


Quality Policy

Thoroughly comprehend the customer's needs and consummate the service and products at the first time.

品質政策

完全瞭解顧客的需求，將我們的產品及服務一次去滿足顧客。



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Brilliant



- A** 夾頭系統
Chuck Tool
- B** 泛用型夾頭
EN-ECWEE™
MULTIPURPOSE CHUCK
- C** 絲攻夾頭
Tap Chuck
- D** 主軸配件
Spindle
Clamping
System
- E** 刀桿系統
Tooling
System
- F** 虎鉗系統
Vises
System
- G** 擴刀系統
Boring
System
- H** VDI系統
VDI
System
- I** 頂針系統
Live Center
System
- J** 圓錐刀及
端銼刀系統
Taper Milling Cutter
& Endmill System
- K** KPTO系統
KPTO
System
- Z** 技術資料
Technical
Data



Chum Power®

MAKE YOUR TOOLS COMPLETE

公司介紹

Company Profile

会社の案内

ChumPower, founded in 1981, is a well-known precision chuck manufacturer. The products are marketing and proved excellent all over the world.

Drill chuck is necessary in the industrial application. It is used popularly such as all kinds of lathes, hand tools, power tools, air tools, medical appliances, and so on.

In terms of the importance of chuck tool, ChumPower keeps on doing all efforts in technological research, development and application and holds creative spirit in technique, product-development, and quality-control.

ChumPower has advanced production equipments, abundant experiences and is able to innovate on designing good products for customers.

We pursue the highest quality and complete management which caused the esteemed chuck manufacturer in Taiwan. Moreover, we acquire great harvest from our customer and many international patents from the world. Till now, ChumPower has approved of ISO, Taiwan Symbol of Excellence, and "Rising Star Award" for high quality.

ChumPower devoted to develop easy-to-operate, strong function, good quality tools which especially combining the tools in hand to fulfill users' different needs.

In the coming future, we will put consistent faith "Energetic · Innovative · Creative" to develop the most perfect After-market service to meet users' needs. We deeply believe ChumPower is your best cooperative partner.

詮寶工業股份有限公司創立於西元1981年，為世界知名的精密夾頭製造公司，產品行銷全球，深獲國際肯定。

鑽夾頭是工業生產中不可或缺的工具，其用途非常廣泛，可應用在各式各樣的機床及手動、電動、氣動工具、醫療器材等。有鑒於夾頭工具的重要性，詮寶在精密夾頭的技术研究及應用開發方面，一向不遺餘力。在技術、產品開發及品質管理等方面，都秉持著時時創新、目標一致的精神。

詮寶擁有先進的生產設備，且在夾頭製造技術有相當豐富的經驗及創新的開發能力，在追求最高品質並結合完善的管理制度下，目前已躍升為台灣最大的夾頭製造公司。由於持續不斷地創新與研發，已獲得豐碩的成果，取得多項國際性專利。在品質方面，取得ISO品質認證、台灣精品獎和小巨人獎等。

詮寶致力於開發操作簡單、功能性強、品質精良並能結合現有工具一同使用，讓各項工具的功能發揮到極致、靈活應用，滿足使用者不同的需求。

未來，我們將秉持一貫的理念「活力團隊、創新價值、塑造未來」，發展出最符合使用者的需求及最完善的售後服務，成為您最佳的合作夥伴。

1981年に創業したチャンパワーはドリルチャック、タップチャック、スピンドルアクセサリー、ツーリングシステムを専門とする世界で有名なメーカーです。製品を全世界に販売し、国内外に賞賛されています。

ドリルチャックは工業で不可欠な工具で、用途も非常に広いです。様々な設備、電動工具、エアーツール、医療器材によく使われていますので、チャンパワーはチャックが各分野に占める重要性が分かります。このため、精密チャックの技術研究や開発、及び品質管理に統一研努力を怠りません。

チャンパワーは先進的な生産設備を持ち、チャックの製造に豊かな経験があり、斬新な開発力も持っています。さらに、高品質を追求した生産ラインから、常に信頼のおける製品を生み出し続けて、高い評価を頂いています。現在、当社は多くの国際特許とISOの認証を取得してあるほか、Taiwan Symbols of Excellence賞、小巨人賞など、数々の賞を受賞しております。

使用者よりの様々な需要を満足させるようにチャンパワーは操作簡単、高い機能性、高品質向けのチャックの開発に取り組み続けています。

将来、当社は「エネルギー、価値革新、将来創造」を企業の基本理念として、使用者向けの最適な製品を開発し、完璧な販売後のサービスを提供させていただきます。チャンパワーは自信を持っており、貴社の一善良パートナーになります。



MANUFACTURING AREA 廠區外觀



R&D BUILDING 研發大樓



ADMINISTRATION BUILDING 行政大樓



CHUMPOWER - ENTRANCE 詮寶公司大門



▲ Professional

▲ Research

▲ Accuracy

▲ Equipment



▲ Development

▲ Performance

▲ Productivity



A Chuck Tool 夾頭系統

01 #122 Keyless Taper Mount #124 Keyless Taper Mount	02 #125 Keyless Thread Mount #128 Hook Wrench	03 #127 Stainless Steel Key Type	04 #130 Stainless Steel Keyless	04 #123 Titanium Jaws Chuck - Keyless Taper Mount Special Heavy duty model
05 #126 Titanium Jaws Chuck - Arbor Type Special Heavy duty model	06 #127 Titanium Jaws Chuck Tool - Shank Type Heavy duty & Special Heavy duty model	07 #133 Hex Key Drill Chucks Arbor Type		

B EX-POWER® Universal Chuck 泛用型夾頭

01 EX-POWER®	02 #600 Hook Wrench	03 #610 Interchangeable Series	04 #620 BT Series Integrated/Manblock	05 #622 BT/JIS B4329/Series Screwed in One-Piece

C Tap Chuck 絲攻夾頭

01 Quick Change Tapping Chucks -Length Compensation -Extra Length	02 Quick Change Tapping Chucks -Length Compensation -Straight Shank	03 Quick Change Tapping Chucks -Length Compensation -Straight Shank	04 Quick Change Tapping Chucks -Length Compensation -Straight Shank	05 Quick Change Tapping Chucks -Straight Shank -More Taper Shank
06 Quick Change Tapping Chucks Adapter	07 Quick Change Tapping Chucks -Straight Shank	08 Quick Change Tapping Chucks -Straight Shank -More Taper Shank	09 Quick Change Tap Collets with Overload Catch -JIS Type	10 Quick Change Tap Collets with Overload Catch -DIN 371 Type
11 Quick Change Tap Collets with Overload Catch -DIN 376 Type	12 Quick Change Tap Collets with Overload Catch -ISO 529 Type	13 Quick Change Tap Collets with Overload Catch -ISO 529/2283 Type	14 Quick Change Tap Collets -Rigid Type -JIS Type	15 Quick Change Tap Collets -Rigid Type -DIN 371
16 Quick Change Tap Collets -Rigid Type -DIN 376	17 Quick Change Tap Collets -Rigid Type -ISO 529	18 Quick Change Tap Collets -Rigid Type -ISO 529/2283	19 Quick Change Tap Collets with Overload Catch -Rigid Type -JIS Type	20 Tap Chuck Reducer Adjustable Pin Wrenches
21 ER Compensation Tapping Collet	22 Universal Tap Chuck -Inner Taper Hole	23 Universal Tap Chuck -More Taper Shank	24 Air tapping spindle	



D Spindle Clamping Systems

主軸配件



01 MAS 403 PULL STUD TYPE CLAMPING 	02 CAT PULL STUD TYPE CLAMPING 	03 DIN69872 PULL STUD TYPE CLAMPING 	04 OTT PULL STUD TYPE CLAMPING 	05 Gripper
06 ROHM PULL STUD TYPE CLAMPING 	07 Shaft Coupling 	08 HSK Gripper 	09 Spray Nozzle Series-Press Fit Type 	10 Spray Nozzle Series-Thread Mount Type
11 Spray Nozzle Series-Thread Mount Type 	12 Spray Nozzle Series-Leak Lock Type 	13 Spray Nozzle Series-Plastic Type 	14 Spindle Accuracy Testing Bar 	15 EZ-BAR -LASER COOLANT POINTER
17 Annular Supplementary Spray loop 	18 Hydraulic Drawbar Rotary Joint 	19 Digital Torque Wrench Head 		



E Tooling Systems






刀桿系統











01 BT CHU CNC DRILL CHUCK 	02 BT ER COLLET CHUCK 	04 BT MILLING CHUCK 	05 BT SIDE LOCK END MILL HOLDER 	07 BT FACE MILL HOLDER
	03 		06 	08
09 BT SLIM-FIT COLLET CHUCK 	10 BT Morse Taper Holder 	10 BT Morse Taper Holder 	11 SK Chuck for High-Speed Machining 	12 Head Shank Tool-Holder for High-Speed Machining
13 Hydraulic Tool-Holder 	15 CAT CHU CNC DRILL CHUCK 	16 CAT ER COLLET CHUCK 	17 CAT MILLING CHUCK 	18 CAT SIDE LOCK END MILL HOLDER
14 				
19 CAT FACE MILL HOLDER 	20 CAT SLIM-FIT COLLET CHUCK 	21 SK CHU CNC DRILL CHUCK 	22 SK ER COLLET CHUCK 	23 SK MILLING CHUCK
24 SK SIDE LOCK END MILL HOLDER 	25 SK FACE MILL HOLDER 	26 SK SLIM-FIT COLLET CHUCK 	27 HSK CHU CNC DRILL CHUCK 	28 HSK ER COLLET CHUCK
			29 	
30 HSK MILLING CHUCKS 	31 HSK SIDE LOCK END MILL HOLDER 	33 HSK FACE MILL HOLDER 	34 HSK SLIM-FIT COLLET CHUCKS 	35 BT Hex Key Drill Chuck
	32 			





<p>35 SK Hex Key Drill Chuck</p> 	<p>36 HSK Hex Key Drill Chuck</p> 	<p>36 VDI Hex Key Drill Chuck</p> 	<p>37 Hex Key Drill Chucks Arbor Type-Morse Taper</p> 	<p>37 Hex Key Drill Chucks Arbor Type - D</p> 
38	38			



<p>38 BT/Threading BT/Coolant Thru-Hole Models Coolant Pipe</p> 	<p>39 DIN A/B Type DIN / R Type ISO A Type / ISO B Type CAT Standard Models</p> 	<p>42 ER Spring Collet System</p> 	<p>45 SK Spring Collet System A Class</p> 	<p>46 SK-M-PI Collet</p> 
<p>47 Straight Collet ER Straight Collet Chuck</p> 	<p>51 I Adol Press Gauge Tool Holder Locking Device</p> 	<p>52 Tool Locking Device</p> 	<p>52 Tool Locking Device A Type</p> 	<p>53 Taper Wiper BT Type</p> 
<p>53 Taper Wiper HSK Type</p> 	<p>54 Optical Edge Finder ER Spanner Hook Wrenches</p> 	<p>56 NUTS</p> 	<p>57 GTS-304MC Induction shrinking unit</p> 	<p>58 GTS9000M SHWA-PI</p> 



F Vises Systems 虎鉗系統



01 CMO	02 CMP	03 CMW	04 CHL	05 CHD
06 CHA	07 CDL	08 CDC	09 CLD	10 CLA
11 CLM	12 CVC	13 CVM		



G Boring Head Systems 搪刀系統



03 Paper Shank for Boring Head Series B37	03 9F Face Mill Holder	04 9B1 Inextensible Twin-Flute Rough Boring Head (Ø10-Ø100mm)	05 9B1-LA Large Diameter Rough Boring Head with External Module (Ø10-Ø120mm)	07 CB Large Diameter Boring Head with External Module (Ø10-Ø120mm)
09 CB Modular External Finish Boring Head (Ø10-Ø100mm)	10 W57 Tool Rest	10 Square Shank Boring Tool Holder for W57 Tool Rest	10 Square Shank External Boring Tool Holder for W57 Tool Rest	10 Internal & External Square Shank Boring Tool Holder for W57 Tool Rest
11 Paper Shank for Boring Head Series 3M	12 9B1 Inextensible Twin-Flute Rough Boring Head (Ø10-Ø100mm)	13 Inextensible Twin-Flute Rough Boring Head 9B1-L (Ø10-Ø100mm)	14 CB Finish Boring Head (Boring Range from Ø10-Ø100mm)	15 Small Diameter Finish Boring Head Type CB (Ø3-Ø40mm)
15 Extension Adapter for Small Diameter Boring Bar (Specified for CB Series Type AC)	15 Super Fine Diameter Tungsten Carbide Boring Bar (Specified for CB Series Type 3M)	16 CB 4 (Ø6-Ø40mm) CB 3 (Ø6-Ø100mm) CB 4 (Ø6-Ø100mm)	17 Cutter for Tungsten Carbide Small Diameter Modular Boring Bar Series Type AC	17 Tungsten Carbide Small Diameter Modular Boring Bar Type 3F
17 Modular H.L.F. Fine Boring Bar Type AC	17 Modular Insert Holder Type 3F (Boring Range from Ø6-Ø100mm)	18 CBM3, CBM3 Modular Accessories for External Boring (Boring Range from Ø5-Ø100mm)	18 Extension Adapters for CBM3, CBM3	19 Super Hard Solid Tungsten Carbide Boring Bar (Ø3-Ø15mm)
20 3.2 Straight Shank Boring Bar	21 Extension (Constant Diameter)	21 Extension/Reducing	22 Contact Type Presser Boring Spindle	23 Non-contact Test Presser





01 B1	01 B2	01 B3	01 B4	01 C1
01 C2	02 C3	02 C4	02 CB1	02 CB2
02 CB3	02 CB4	03 D1	03 D2	03 E1
04 E2	04 E4	04 T1	05 SA Run Transmission	05 HB Run Transmission
06 HF Run Transmission				



01 NCH-61	01 NCH-62	02 NCH-TS63	02 NCH-65	03 TSC-262
03 TCS-662	03 TCS-665	04 TSC-562	04 SC-60 H	05 SC-61
05 SC-62	06 SC-63	06 SC-65	07 SC-66	07 SC-67
08 SC-80	08 SC-96			

J Endmill & Face Milling Cutter Systems

端銑刀及面銑刀系統



01 CJU Drilling & Milling Endmill A001	02 EHU High-Speed Endmill A003	03 EHJ Drilling & Milling Endmill A004	04 ESRF High-Feed Milling Cutter A005	05 CEX High-Speed Endmill A006
06 CAP300R High-Speed Rough Endmill A007	07 CAP400R High-Speed Rough Endmill A008	08 CAP400R Face Milling Cutter A009	08 SFM Shoulder Face Milling Cutter A010	09 CRS Radius Endmill A013
10 CRP Radius Endmill A014	11 CRT Radius Endmill A015	12 CRS Radius Face Milling Cutter A016	12 CRP Radius Face Milling Cutter A017	13 CRT Radius Face Milling Cutter A018
13 C2139 Ball-Nose Endmill A020	14 CBP Ball-Nose Endmill A021	14 TB Twin-Blade Boring Bar A022	15 XEM High Efficiency Rough Endmill A023	16 RGH Shell-Type Rough Milling Cutter A024
16 C2139 Ball-Nose Endmill A025	17 RGH BT50/NT50 Rough Milling Cutter A026	18 RGH Rough Milling Cutter A027	19 ESR High-Efficiency Endmill A029	20 ESR High-Efficiency Milling Cutter A030
20 TCM 45° Chamfering Endmill A031	21 CM 45° Chamfering Endmill A032	21 CH Bolt Countersink Endmill A033	22 TS T-Slot Endmill A034	22 SE High-Speed Face Milling Cutter A035



J Endmill & Face Milling Cutter Systems

端銑刀及面銑刀系統



23 SE High-Speed Face Milling Cutter A036	23 SE445 Face Milling Cutter A037	24 TPR Shoulder Endmill A038	25 TPR22 Shoulder Endmill A039	25 TPR R8-Shank Shoulder Endmill A040
26 TPR Shoulder Face Milling Cutter A041	26 TPR Shoulder Face Milling Cutter A042	27 SC Side Milling Cutter A043	27 SCT T-Type Side Milling Cutter A044	28 FP 15° Face Milling Cutter A045
28 535,435 25° Face Milling Cutter A046.A047	29 545,445 45° Face Milling Cutter A048.A049	30 X-POWER Radius Milling Cutter A050	30 C2334 Radius Endmill A051	31 C2280 Octagon Face Milling Cutter A052
31 SE13 High Speed Face Milling Cutter A053	32 RD Radius Corner Modular Endmill A054	32 RT Lightning Modular Endmill A055	33 EXT Modular Extension Bar A056	33 RD Radius Corner Endmill A057
34 RT Lightning Endmill A058	35 APX High-Speed Rough Endmill A059	35 C4033 Powerful Face Milling Cutter A060	36 EXD Power Super Drill 3D A062	37 EXD Power Super Drill 4D A063
38 WEX High-Speed Rough Endmill A064	38 WEX High-Speed Rough Face Milling Cutter A065	39 Screw	39 Wrench	40





- 01 Ex-Power Standard Inspection Table
- 02 Dynamic Balance Standard Formula List
- 03 JACOBS TAPER/DIN238/DIN228 "A TANG TYPE"/DIN228 "B DRAW BAR TYPE"
- 04 Technical Data - JIS B 6339
- 05 Technical Data - DIN 2080
- 06 Technical Data - DIN 69871
- 07 Technical Data - DIN 69893 A+C
- 08 Technical Data - ASME B 5.50
- 09 MOUNTING INSTRUCTION FOR ER-COLLETS PER DIN STD 6499-B
- 10 MOUNTING INSTRUCTION FOR ER-COLLETS PER DIN STD 6499-B
- 11 Keyless Drill Chuck Manual
- 12 自動鑽夾頭操作須知
- 13 Ex-Power Chuck Manual
- 14 Ex-Power 刀把裝配須知
- 15 Tap Chuck Torque Adjustment Manual
- 16 Keyless Drill Chuck 修護裝配
- 17 Tap Chuck Section Instruction
- 18 Tap Chuck 裝配須知
- 19 ER Collet Chuck Manual
- 20 ER 刀把裝配須知
- 21 Milling Chuck Manual
- 22 Milling Chuck 裝配須知
- 23 新型大徑雙刃粗排刀 (RBH200LA以上) 組合系列裝配須知
- 25 齒輪式夾頭操作須知





Drill Chuck

夾頭系統



Makes Machine Tools Complete

#123 Keyless Taper Mount (錐孔) Heavy duty model 重型系列

Industrial design especially for milling machines and drilling machines. All hardened parts ensure long life and safety while in operation.
擁有工業(工學)之設計, 特別是針對銑床及鑽床機械, 所有堅固的組成部份必能確保操作期間此鑽夾頭之安全性及高長效使用壽命。



Description 品名 型號 Code No.	Size 尺寸	Capacity 夾持力		Taper Mount No. DN or Jacobs 錐孔鉗夾式	Length (mm) 長度		Outer Dia (mm) 外径	Weight (g) 重量
		mm 公制	Inch 英制		Open 三爪(開)	Closed (閉)		
12301-1	8H	0.3-6.5	1/8-1/4	JT1	62	68	33	310
12302-1	8H	0.3-8	1/8-5/16	JT1	68	76	38	410
12302-2	8H	0.3-8	1/8-5/16	JT2B	68	76	38	410
12302-3	8H	0.3-8	1/8-5/16	B10	68	76	38	410
12302-4	8H	0.3-8	1/8-5/16	B12	68	76	38	410
12303-0	10H	0.3-10	1/8-3/8	JT2	80	92	43	630
12303-1	10H	0.3-10	1/8-3/8	JT3	80	92	43	630
12303-2	10H	0.3-10	1/8-3/8	JT2B	80	92	43	630
12303-3	10H	0.3-10	1/8-3/8	B10	80	92	43	630
12303-4	10H	0.3-10	1/8-3/8	B12	80	92	43	630
12304-1	13H	0.3-13	1/8-1/2	JT3	90	102	50	940
12304-2	13H	0.3-13	1/8-1/2	JT8	90	102	50	940
12304-3	13H	0.3-13	1/8-1/2	B12	90	102	50	940
12304-4	13H	0.3-13	1/8-1/2	B16	90	102	50	940
12304-5	13H	0.3-13	1/8-1/2	JT2	90	102	50	940
12305-1	16H	3-16	1/8-5/8	JT8	97	110	57	1300
12305-2	16H	3-16	1/8-5/8	JT3	97	110	57	1300
12305-3	16H	3-16	1/8-5/8	B16	97	110	57	1300
12305-4	16H	3-16	1/8-5/8	B18	97	110	57	1300



H Type
Heavy duty model #123

#125 Keyless Thread Mount (螺紋) Medium duty model 中型系列

Stable quality of threaded mounting, suitable for bench and pedestal drilling machines.

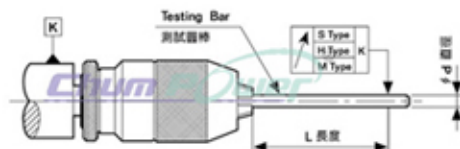
此螺紋規格之夾頭產品, 擁有穩定之品質, 適用於檯式鑽床及懸臂鑽床。

Description 品名 型號 Code No.	Size 尺寸	Capacity 夾持力		Thread Mount 螺紋鉗夾式	Length (mm) 長度		Outer Dia (mm) 外径	Weight (g) 重量
		Inch 英制	mm 公制		Open 三爪(開)	Closed (閉)		
12503-2A	13M	1-13	1/8-1/2	1/2-20UNF	79	94	43	650
12503-3A	13M	1-13	1/8-1/2	5/8-24UNF	79	94	43	650



Code No. 12503-2A
12503-3A

M Type
Medium duty model #125



Keyless Drill Chuck Run Out Table Keyless 鑽夾頭同心度檢驗表

Capacity 夾持力 mm	Ød 直徑 mm	L 長度 mm	Run Out		
			S Type	H Type	M Type
8	4	35	0.06	0.07	0.15
	6	50			
	8	50			
10	5	35	0.06	0.07	0.15
	6	50			
	8	50			
13	6	55	0.06	0.07	0.15
	10	75			
	13	75			
16	6	55	0.06	0.07	0.15
	10	80			
	16	80			

#124 Keyless Taper Mount (錐孔) Medium duty model 中型系列

Stable quality of tapered mounting, suitable for bench and pedestal drilling machines.

此錐孔規格之夾頭產品, 擁有穩定之品質, 適用於檯式鑽床及懸臂鑽床。

Description 品名 型號 Code No.	Size 尺寸	Capacity 夾持力		Taper Mount No. DN or Jacobs 錐孔鉗夾式	Length (mm) 長度		Outer Dia (mm) 外径	Weight (g) 重量
		mm 公制	Inch 英制		Open 三爪(開)	Closed (閉)		
12404-1	13M	0.5-13	1/8-1/2	JT2	87	98.5	43	648
12404-2A	13M	0.5-13	1/8-1/2	JT8	87	98.5	43	648
12404-3A	13M	0.5-13	1/8-1/2	B16	87	98.5	43	648
12404-4	13M	0.5-13	1/8-1/2	JT3	87	98.5	43	648



Code No. 12404-2A
12404-3A

M Type
Medium duty model #124

#128 Hook wrench (勾板手系列) Hook wrench model

Description 品名 型號 Code No.	Type 規格	Weight (g) 重量
1280000-01	8S	70
1280000-02	8S	82
1280000-04	10S	105
1280000-06	13S	120
1280000-08	16S	110



#129 Stainless Steel Drill Chuck 不鏽鋼系列
Key Type Taper & Thread Mount 錐孔 & 螺紋



Description 品名 型號 Code No.	Size 尺寸	Capacity 夾持力		Taper & Thread Mount No. 錐孔或螺紋 DIN or Jacobs 規格	Length (mm) 長度		Outer Dia. (mm) 外徑	Weight (g) 重量	Key Size 適用扳手	
		mm 公制	inch 英制		Open 三爪(開)	Closed (關)			SUS303	SUS420J2
12900	4MTP	0.3-4	1/64-5/32	JT0	28	35	22	50	T0-03	-
12901	6MTP	0.3-6.5	1/64-1/4	JT1	40.5	49	26.5	125	T1-03	T1-20
12901-1	6MTH	0.3-6.5	1/64-1/4	3/8-24UNF	40.5	49	26.5	130	T1-03	T1-20
12902	10MTP	0.3-10	1/64-3/8	JT2S	51	63	39	250	T2-03	T2-20
12902-1	10MTP	0.3-10	1/64-3/8	D13	57	69	37	250	-	-
12902-2	10MTP	0.3-10	1/64-3/8	D15	57	69	37	250	-	-
12902-3	10MTH	0.3-10	1/64-3/8	3/8-24UNF	51	63	39	250	T2-03	T2-20
1291401	13MTP	0.3-13	1/64-1/2	JT6	63	77	45	420	T2-103	T2-120
1291402	13MTH	0.3-13	1/64-1/2	1/2-20UNF	63	77	45	420	T2-103	T2-120
1291502	16MTP	0.3-16	1/64-5/8	JT6	78	93	55	725	T3-03	T3-20
1290501	16MTH	0.3-16	1/64-5/8	1/2-20UNF	78	93	55	725	T3-03	T3-20

Code No. 型號	Size 尺寸	Pilot Size 鑽手大小	Weight (g) 重量	Used on 適用夾頭
1162101	T0-03	Ø 3.2	16	4MTP
1162201	T1-03	Ø 4.0	40	6MTP, 6MTH
1161201	T1-20	Ø 3.2	40	4MTP
1162501	T2-03	Ø 5.5	45	10MTP, 10MTH, 6HTP
1161501	T2-20	Ø 5.5	45	10MTP, 10MTH, 6HTP
1162601	T2-103	Ø 6.5		13MTP, 13MTH, 10HTP
1161601	T2-120	Ø 6.5		13MTP, 13MTH, 10HTP
1162701	T3-03	Ø 8		16MTP, 13HTP, 16HTP, 16MTH
1161701	T3-20	Ø 8		16MTP, 13HTP, 16HTP, 16MTH



Design Features :

1. Stainless material is applied to each component.
2. Special design: working smoothly.
3. Chemical surface treatment is made for each component.
4. Anti-corrosion (anti-rust) even if used in the environment of high acidity, high alkalinity or high humidity.
5. Radius design on sleeve: it would not rip the glove; therefore, minimizes the risk of operator safety.
6. Smooth appearance: being convenient for users.

特點

1. 所有零件採用不鏽鋼材質。
2. 特殊設計，轉動順暢。
3. 所有料件都經過化學表面處理。
4. 在高酸性、高鹼性或高濕度的環境下使用，不易腐蝕(生鏽)。
5. 外殼弧角設計：不勾破手套，降低操作人員安全之風險。
6. 滑順的外觀，使用更順手方便。

Applications:

1. Used in medical industry, especially in bone surgery.
2. Used in electric discharging machining (EDM).
3. For special application on chemical-mixing.
4. For special application on food-mixing.
5. For special application on boat/ship-drilling.

產品適用:

1. 醫療骨科手術工具
2. 細孔放電加工機 (EDM)
3. 實驗室攪拌
4. 食品攪拌
5. 海洋船舶鑽孔

#130 Stainless Steel Drill Chuck 不鏽鋼系列
Keyless Taper & Thread Mount 錐孔 & 螺紋



Description 品名 型號 Code No.	Size 尺寸	Capacity 夾持力		Taper & Thread Mount No. 錐孔或螺紋 DIN or Jacobs 規格	Length (mm) 長度		Outer Dia. (mm) 外徑	Weight (g) 重量
		mm 公制	inch 英制		Open 三爪(開)	Closed (關)		
13000	3S	0.3-3	1/64-1/8	JT0	44	50	30	110
13003	3S	0.3-3	1/64-1/8	JT1	44	48.5	24	110
13006	6S	0.3-6.5	1/64-1/4	JT1	62	68	33	300
1301202	8S	0.3-8	1/64-5/16	JT1	68	78	38	425
1301301	10S	0.3-10	1/64-3/8	JT2S	80	92	43	625
1301401	13S	0.3-13	1/64-1/2	JT6	90	102	50	1000
1301501	16S	3.0-16	1/8-5/8	JT6	97	110	57	1320

Titanium Jaws Chuck 鈦極系列
#122 Keyless Taper Mount (錐孔)
Special Heavy duty model 特重型系列



Extremely high accuracy and precision design, suitable for CNC machines and machine center. All parts are ground, heat treated, surface treated and under specific QC condition. The clamping three jaws adopt high tech Titanium. The benefit of adopting Titanium is to increase the intensity and wear-resistance.

十分高精密之設計，適用於CNC及綜合切削機。所有構成部份皆經過電鍍及表面熱處理且在嚴格品質管制控制之下。夾爪採用高科技的鈦合金鍍膜，可使夾爪更耐磨耐用及確保精度。



S Type
Special Heavy duty model #122

Description 品名 型號 Code No.	Size 尺寸	Capacity 夾持力		Taper Mount No. 錐孔或螺紋 DIN or Jacobs 規格	Length (mm) 長度		Outer Dia. (mm) 外徑	Weight (g) 重量
		mm 公制	inch 英制		Open 三爪(開)	Closed (關)		
1222001	3S	0.3-3	1/64-1/8	JT0	44	48.5	24	110
1222002	3S	0.3-3	1/64-1/8	JT1	44	48.5	24	110
1222101	6S	0.3-6.5	1/64-1/4	JT1	62	68	33	300
1222152	6S	0.3-6.5	1/64-1/4	B10	62	68	33	300
1222201	8S	0.3-8	1/64-5/16	JT1	68	78	38	425
1222202	8S	0.3-8	1/64-5/16	JT2S	68	78	38	425
1222203	8S	0.3-8	1/64-5/16	B10	68	78	38	425
1222204	8S	0.3-8	1/64-5/16	B12	68	78	38	425
1222301	10S	0.3-10	1/64-3/8	JT2S	80	92	43	625
1222302	10S	0.3-10	1/64-3/8	JT33	80	92	43	625
1222303	10S	0.3-10	1/64-3/8	B10	80	92	43	625
1222304	10S	0.3-10	1/64-3/8	B12	80	92	43	625
1222305	10S	0.3-10	1/64-3/8	JT2	80	92	43	625
1222306	10S	0.3-10	1/64-3/8	B16	80	92	43	625
1222401	13S	0.3-13	1/64-1/2	JT2	90	102	50	1000
1222402	13S	0.3-13	1/64-1/2	JT33	90	102	50	1000
1222403	13S	0.3-13	1/64-1/2	JT6	90	102	50	1000
1222404	13S	0.3-13	1/64-1/2	B12	90	102	50	1000
1222405	13S	0.3-13	1/64-1/2	B16	90	102	50	1000
1222501	16S	3-16	1/8-5/8	JT6	97	110	57	1320
1222502	16S	3-16	1/8-5/8	JT3	97	110	57	1320
1222503	16S	3-16	1/8-5/8	B16	97	110	57	1320
1222504	16S	3-16	1/8-5/8	B18	97	110	57	1320
1222505	16S	3-16	1/8-5/8	JT33	97	110	57	1320

Titanium Jaws Chuck 鈦極系列

#126 Arbor Type (連柄一體式) Special Heavy duty model 特重型系列

Designed together with arbor structure makes its performance perfect for drilling press and machine center. Precisely machined and ground components ensure the tolerance and accuracy. The clamping three jaws adopt high tech Titanium. The benefit of adopting Titanium is to increase the intensity and wear-resistance.

附有夾頭柄結構之設計，使得它更適於銑床及綜合切削機且有更趨於完美之美觀。精密的機械工學和堅固耐用的組成確保了力及精度。夾爪採用高科技的鈦合金鍍膜，可使夾爪更耐磨耐用及確保精度。



→ MT

Description 品名 型號 Code No.	Type 規格	Capacity 夾持力		Male Taper No. DIN or Jacobs 規格編號型式	Length(mm) 長度			Weight (g) 重量	Spanner No. 適用勾板手
		mm 公制	inch 英制		A	B	D (mm) 吋		
1262201	8S	0.3-8	1/64-5/16	MT2	142	81	37	400	12802
1262301	10S	0.3-10	1/64-3/8	MT2	151	70	43	700	12804
1262401	13S	0.3-13	1/64-1/2	MT2	162	81	50	1010	12806
1262402	13S	0.3-13	1/64-1/2	MT3	180	81	50	1140	12806
1262403	13S	0.3-13	1/64-1/2	MT4	208	81	50	1490	12806
1262501	16S	3-16	1/8-5/8	MT3	186	85	57	1445	12808
1262502	16S	3-16	1/8-5/8	MT4	210	85	57	1770	12808

MT 莫氏圓錐柄



→ D

Description 品名 型號 Code No.	Type 規格	Capacity 夾持力		Male Taper No. DIN or Jacobs 規格編號型式	Length(mm) 長度			Weight (g) 重量	Spanner No. 適用勾板手
		mm 公制	inch 英制		A	B	D (mm) 吋		
1262001	3S	0.3-3	1/64-1/8	D12	88.5	38.5	24	140	
1262101	6S	0.3-6.5	1/64-1/4	D16	104	54	33	334	12801
1262202	8S	0.3-8	1/64-5/16	D20	121	81	37	510	12802
1262404	13S	0.3-13	1/64-1/2	D20	141	81	50	1030	12806
1262405	13S	0.3-13	1/64-1/2	D25	160	81	50	1190	12806
1262406	13S	0.3-13	1/64-1/2	D32	162	81	50	1405	12806
1262503	16S	3-16	1/8-5/8	D20	145	85	57	1330	12808
1262504	16S	3-16	1/8-5/8	D25	165	85	57	1480	12808
1262505	16S	3-16	1/8-5/8	D32	167	85	57	1700	12808

D 直柄



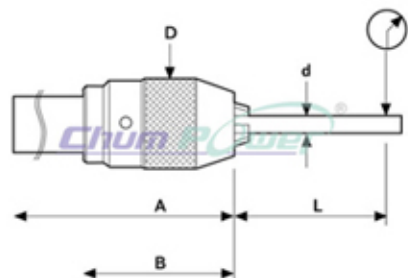
→ R

Description 品名 型號 Code No.	Type 規格	Capacity 夾持力		Male Taper No. DIN or Jacobs 規格編號型式	Length(mm) 長度			Weight (g) 重量	Spanner No. 適用勾板手
		mm 公制	inch 英制		A	B	D (mm) 吋		
1262407	13S	0.3-13	1/64-1/2	R8	184	81	50	1280	12806
1262506	16S	3-16	1/8-5/8	R8	188	85	58	1530	12808

R 不銹鋼

Run Out Inspection Table
同心度檢驗表

Type 規格	Ød 直徑 mm	L 長度 mm	Max Run-Out 最大同心度 mm
3S	1.5	30	0.05
	3		
	3		
6S	4	35	0.05
	4		
	6		
8S	4	35	0.05
	6		
	8		
10S	5	35	0.05
	6		
	10		
13S	6	55	0.05
	10		
	13		
16S	6	55	0.05
	10		
	16		



*Custom-Built products are available on request. *特製品可依客戶需求訂製

Titanium Jaws Chuck 鈦極系列

#127 Tool Shank Type (帶刀柄式) Heavy duty & Special heavy duty model 重型及特重型系列

Multi-choices of mounting specification offers quick changeover on machine center. The clamping three jaws adopt high tech Titanium.

The benefit of adopting Titanium is to increase the intensity and wear-resistance.

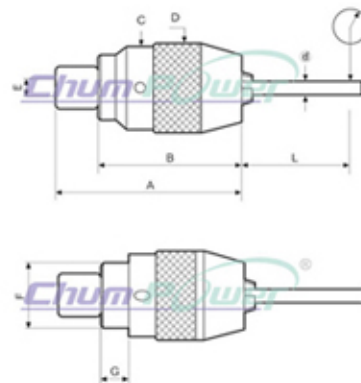
擁有可搭配不同刀柄規格之多重選擇；當您使用於綜合切削機時，它更讓您迅速地更換。夾爪採用高科技的鈦合金鍍膜，可使夾爪更耐磨耐用及確保精度。



組接示意圖

Keyless Drill Chuck Run Out Table
Keyless 鑽夾頭同心度檢驗表

Type	Ød 直徑 mm	L 長度 mm	S Type
6S	3	35	0.05
	4		
	6		
8S	4	35	0.05
	6		
	8		
10S	5	35	0.05
	6		
	10		
13S	6	55	0.05
	10		
	13		
16S	6	55	0.05
	10		
	16		



Description 品名 型號 Code No.	Type 規格	Capacity 夾持力		Male Taper No. 規格編號型式	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Weight (g) 重量	Spanner No. 適用勾板手
		mm 公制	inch 英制										
1272101	6S	0.3-6.5	1/64-1/4	MT2	78	54	32	33.5	M6 P1.0	26.5	7.5	300	12801
1272201	8S	0.3-8	1/64-5/16	MT2	85	60.5	36	37.5	M6 P1.0	30	10	400	12802
1272301	10S	0.3-10	1/64-3/8	MT2	95	70	41	43	M6 P1.0	34	13	650	12804
1272401	13S	0.3-13	1/64-1/2	MT3	107.5	80.5	48	50.5	M8 P1.25	38	15	960	12806
1272501	16S	3-16	1/8-5/8	MT3	112	85	54	57	M8 P1.25	43	16	1250	12808

*Custom-Built products are available on request. *特製品可依客戶需求訂製

Titanium Jaws Chuck 鈦極系列 鈦極



#133 Hex Key Drill Chuck 齒輪式夾頭

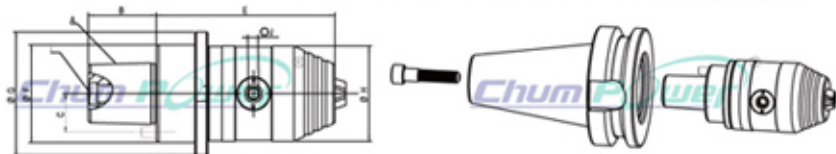
Arbor structure makes its performance perfect for drilling press and machine center.
Fine components ensure the tolerance and accuracy well.
The benefit of titanium jaws is to increase the intensity and wear-resistance.

1. 適合中高低轉速使用。
2. 輕鬆夾緊鉛頭、絲攻、攻刀、銼刀。
3. 夾緊力可靠、穩固。
4. 夾緊力可達 400-800kg·cm。
5. 鍍鈦爪設計，增加耐磨功能。



Description 型號 Code No.	品名 Type 規格	Capacity 夾持力		Taper Mount No. DIN or Jacobs 錐孔組接型式	Length (mm) 長度	
		mm 公制	inch 英制		Open 三爪(開)	Closed (關)
1334205	GHK 8	0.3-8	1/64-5/16	JT1	76	80.5
1334420	GHK13	0.3-13	1/64-1/2	JT6	94	105
1334415	GHK13	0.3-13	1/64-1/2	JT4	112	122.5
1334520	GHK16	1.5-16	1/16-5/8	JT6	104	115
1334515	GHK16	1.5-16	1/16-5/8	JT4	121.5	132.5

*Custom-Built products are available on request. *特製品可依客戶需求訂製



型號 Code No.	Type 規格	A	B	C	E	ØF	ØG	ØH	I	OJ
1334285	GHK8S	MT3	26.5	15	69.5	38	48	37	M8	4
1334485	GHK13S	MT3	26.5	15	89.8	38	48	50	M8	6
1334585	GHK16S	MT3	26.5	15	95	38	48	50	M8	8

*Custom-Built products are available on request. *特製品可依客戶需求訂製



EX-POWER® Universal Chuck

泛用型夾頭





- Suitable for every kind of machine tool cutters.
- Capable of drilling, tapping and twist milling etc.
- The best sharp weapon against the depressed economic.
- Special structure with worldwide patents.
- Able to clamp the tool for two-way machining.

- 適合所有類型的切削工具機。
- 能鑽孔、攻牙、銑床加工。
- 是打擊低迷景氣最好的利器。
- 獨特設計，全球專利。
- 能雙向轉動夾持刀具。



#600 HOOK WRENCH DIN1810A

勾扳手

CODE NO 型號	SIZE 尺寸	WEIGHT g 重量
6000000-05	8mm	100
6000001-10	13mm	160
6000000-15	16mm	250



Integral universal chucks

一體式夾頭操作說明



GRIP

鎖緊



RELEASE

鬆開



Clockwise(CW) 順時針方向

Counter-clockwise(CCW)
逆時針方向

#610 EX-POWER® Interchangeable Series 互換系列

These chucks are specially designed for application in CNC drill chucks with the highest engineering standards. The female thread inside the short type BT makes it firmly screwed together with CNC machine

- With integrated design, the drill chuck heads once screwed together with tool holder shank will never be disengaged from it.
- Great rigidity due to the special design.
- Excellent performance and reliability.
- High durability and easy to operate.
- Superb accuracy is guaranteed because of 100% inspection and strict quality control.
- All the drill chucks are capable combined with SK, ISO, BT, VDI, HSK tool holder.



此類夾頭是特別設計，應用於高工程標準的CNC鑽夾頭。

BT型內螺紋可與CNC車床緊密鎖上。

- 一體設計，鑽夾頭與刀把鎖緊不鬆脫。
- 特殊設計，有良好的剛性。
- 性能優異，值得信賴。
- 耐磨損，容易操作。
- 精度準確：經嚴格品質控管。
- 此系列所有鑽夾頭皆可適用SK, ISO, BT, VDI, HSK刀桿。

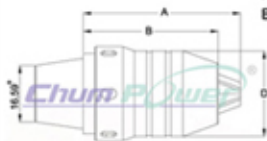


Fig. 1



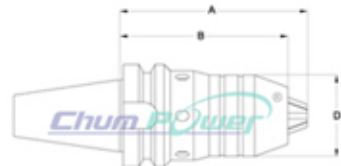
Fig. 2

CODE NO 型號	SCREW & CHUCK SIZE 螺絲x夾頭尺寸	CAPACITY 夾持量		DIMENSIONS 規格		
		mm	Inch	CLOSED A/mm 閉	OPEN B/mm 開	SLEEVE D/mm 外徑
61005	M8*8MM	0-8	0-5/16	64.7	56	37.5
61010	M8*8MM	0-8	0-5/16	64.7	56	37.5
61015	M8*13MM	0-13	0-1/2	84.2	57.3	50
61025	M8*16MM	3-16	1/8-5/8	90.5	77.5	57

*Custom-Built products are available on request. *特製品可依客戶需求訂製

#620 EX-POWER® JIS B6339 / MAS 403 BT 一體式設計
Integrated / Monoblock Design

- Designed to maximize drill chuck rigidity and precision on machine centers with automatic tool changer.
- The shank and Universal Drill Chuck are combined as one body, so that the Drill Chuck will not be fallen out when heavy cutting performed.
- The drill will not be dropped out when the main spindle of machine instantly stops.
- High precision can be maintained over a long period of time.
- 設計功能一能增強鑽夾頭的堅固性及精準性，於使用綜合加工中心機的換刀系統。
- 刀柄和鑽夾頭結合為一體。即使是作重切削的加工，鑽夾頭也不會脫落。
- 即使機器主軸立即停止，刀具也不會因此脫落。
- 超過長時間的使用，此夾頭仍保持高精度。



CODE NO 型號	MOUNT TYPE 組裝型式	SIZE 尺寸	CAPACITY 夾持量		DIMENSIONS 規格		
			mm	Inch	CLOSED A/mm 閉	OPEN B/mm 開	SLEEVE D/mm 外徑
62005	BT30	8mm	0-8	0-5/16	92	83	37.5
62010	BT30	13mm	0-13	0-1/2	115	102	50
62015	BT40	8mm	0-8	0-5/16	96	87	37.5
62020	BT40	13mm	0-13	0-1/2	115	102	50
62025	BT40	16mm	3-16	1/8-5/8	121.5	108.5	57

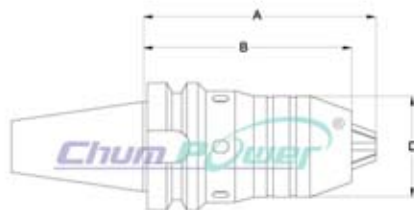
*Custom-Built products are available on request. *特製品可依客戶需求訂製

EX-POWER® UNIVERSAL CHUCK

#622 EX-POWER®

BT/JIS B6339/ Series 組接式設計
Screwed in One-Piece BT/JIS B6339 系列

- Designed to maximize drill chuck rigidity and precision on machine centers with automatic tool changer.
- High precision can be maintained over a long period of time.
- 設計功能—能增強鑽夾頭的堅固性及精準性，於使用綜合加工中心機的換刀系統。
- 超過長時間的使用，此夾頭仍保持高精度。



CODE NO 型號	MOUNT TYPE 組接型式	SIZE 尺寸	CAPACITY 夾持量		DIMENSIONS 規格		
			mm	Inch	CLOSED A/mm 閉	OPEN B/mm 開	SLEEVE D/mm 外徑
62230	BT50	8mm	0-8	0-5/16	106	98	37.5
62235	BT50	13mm	0-13	0-1/2	126.2	115.5	50
62240	BT50	16mm	3-16	1/8-5/8	132.5	119.5	57

*Custom-Built products are available on request. *特製品可依客戶需求訂製



Tap Chuck 絲攻夾頭



Quick Change Tapping Chucks

With Length Compensation/Extra Length

Features:

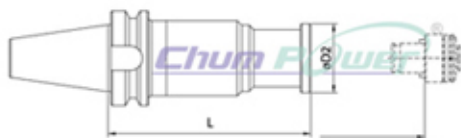
- Quick Change of Top Adapters.
- Length Compensation could prevent tap from breaking upon tapping.

快換式絲攻刀桿

伸縮緩衝加長型

特性:

- 快換式絲攻連接桿
- 緩衝可預防絲攻在攻牙時斷裂



Code NO. 型號	SPEC. 規格	Capacity 攻牙能力	L	øD2	Collets 適用筒夾
36267	BT40-WFE12-135	M3~M12	135	38	TC312 TC312B
36268	BT40-WFE12-165	M3~M12	165	38	TC312 TC312B
36277	BT50-WFE12-135	M3~M12	135	38	TC312 TC312B
36279	BT50-WFE12-165	M3~M12	165	38	TC312 TC312B
36278	BT50-WFE12-195	M3~M12	195	38	TC312 TC312B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購



Quick Change Tapping Chucks

With Length Compensation

Features:

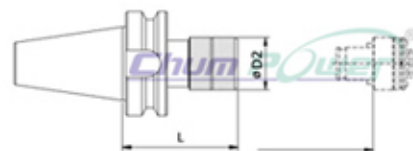
- Quick Change of Top Adapters.
- Length Compensation could prevent tap from breaking upon tapping.

快換式絲攻刀桿

伸縮緩衝型

特性:

- 快換式絲攻連接桿
- 緩衝可預防絲攻在攻牙時斷裂



Code NO. 型號	SPEC. 規格	Capacity 攻牙能力	L	øD2	Collets 適用筒夾
36276	BT30-WF12	M3~M12	70	36	TC312 TC312B
36266	BT40-WF12	M3~M12	75	36	TC312 TC312B
36280	BT50-WF12	M3~M12	85	36	TC312 TC312B
36180	BT30-WF20	M8~M20	105	53	TC820 TC820B
36166	BT40-WF20	M8~M20	95	53	TC820 TC820B
36176	BT50-WF20	M8~M20	105	53	TC820 TC820B
36367	BT40-WF33	M14~M33	160	78	TC1433 TC1433B
36376	BT50-WF33	M14~M33	150	78	TC1433 TC1433B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購

Quick Change Tapping Chucks

With Length Compensation

Straight Shank-Collets

Features:

- Quick Change of Top Adapters.
- Length Compensation could prevent tap from breaking upon tapping.

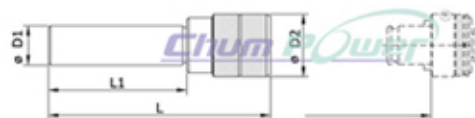
快換式絲攻刀桿

伸縮緩衝型

直柄型-筒夾專用

特性:

- 快換式絲攻連接桿
- 緩衝可預防絲攻在攻牙時斷裂



Code NO. 型號	SPEC. 規格	Capacity 攻牙能力	L	L1	øD1	øD2	Collets 適用筒夾
36261	D20-WF12	M3~M12	113	70	20	36	TC312
36271	D32-WF12	M3~M12	113	70	32	36	TC312B
36161	D20-WF20	M8~M20	135	70	20	53	TC820
36171	D32-WF20	M8~M20	135	70	32	53	TC820B
36371	D32-WF33	M14~M33	183	80	32	78	TC1433B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購



- ⊙ Quick Change Tapping Chucks
- ⊙ With Length Compensation

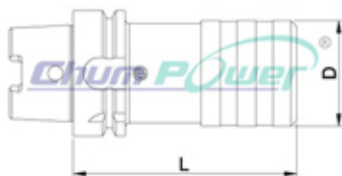
Features

- Quick Change of Tap Adaptors.
- Length Compensation could prevent tap from breaking upon tapping.

- ⊙ 快換式絲攻刀桿
- ⊙ 伸縮緩衝型

特性

- 快換式絲攻連接桿
- 緩衝可預防絲攻在攻牙時斷裂



Code NO. 型號	Type 規格	Capacity 攻牙能力	L	D	Collets 適用筒夾
36269	HSK40A-WF12	M3-M12	95	36	TC312/B
36290	HSK50A-WF12	M3-M12	100	36	TC312/B
36169	HSK50A-WF20	M8-M20	140	53	TC820/B
36286	HSK63A-WF12	M3-M12	100	36	TC312/B
36186	HSK63A-WF20	M8-M20	145	53	TC820/B
36394	HSK63A-WF33	M14-M33	180	78	TC1433/B
36287	HSK100A-WF12	M3-M12	110	36	TC312/B
36187	HSK100A-WF20	M8-M20	150	53	TC820/B
36395	HSK100A-WF33	M14-M33	190	78	TC1433/B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購



- ⊙ Quick Change Tapping Chucks
- ⊙ With Length Compensation

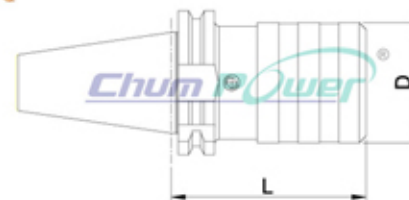
Features

- Quick Change of Tap Adaptors.
- Length Compensation could prevent tap from breaking upon tapping.

- ⊙ 快換式絲攻刀桿
- ⊙ 伸縮緩衝型

特性

- 快換式絲攻連接桿
- 緩衝可預防絲攻在攻牙時斷裂



Code NO. 型號	Type 規格	Capacity 攻牙能力	L	D	Collets 適用筒夾
36251	SK30-WF12	M3-M12	70	36	TC312/B
36151	SK30-WF20	M8-M20	105	53	TC820/B
36281	SK40-WF12	M3-M12	75	36	TC312/B
36181	SK40-WF20	M8-M20	95	53	TC820/B
36360	SK40-WF33	M14-M33	160	78	TC1433/B
36275	SK50-WF12	M3-M12	85	36	TC312/B
36175	SK50-WF20	M8-M20	105	53	TC820/B
36385	SK50-WF33	M14-M33	150	78	TC1433/B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購





- ⊙ Quick Change Tapping Chucks
 - ⊙ With Length Compensation
 - ⊙ Straight Shank-Side-Lock&CNC Lathe
- Features:**
- Quick Change of Tap Adapters.
 - Length Compensation could prevent tap from breaking upon tapping.
- ⊙ 快換式絲攻刀桿
 - ⊙ 伸縮緩衝型
 - ⊙ 直柄型-側固及CNC車床專用
- 特性:**
- 快換式絲攻連接桿
 - 緩衝可預防絲攻在攻牙時斷落



Code NO. 型號	SPEC. 規格	Capacity 攻牙能力	L	L1	D	øD1	øD2	Collets 適用筒夾
36262	D20A-WF12	M3~M12	113	70	19	20	36	TC312
36272	D32A-WF12	M3~M12	113	70	31	32	36	TC312B
36162	D20A-WF20	M8~M20	135	70	19	20	53	TC820
36172	D32A-WF20	M8~M20	135	70	31	32	53	TC820B
36372	D32A-WF33	M14~M33	183	80	31	32	78	TC1433B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購



- ⊙ Quick Change Tapping Chucks
 - ⊙ With Length Compensation
 - ⊙ Morse Taper Shank
- Application:**
- The products are suitable for Radial Drilling Machines, CNC Turning Centers, High-Speed Center Lathes, Drilling Machines, Radial Drilling Machines, Air Tapping Machines, Milling Machines and other machines with reversible spindles.
- ⊙ 快換式絲攻刀桿
 - ⊙ 伸縮緩衝型
 - ⊙ 莫氏錐度型
- 用途:**
- 此產品適用於旋臂式鑽床, 高速車床, 直立式鑽床, 銑床及其它可反轉的主軸。



Code NO. 型號	SPEC. 規格	Capacity 攻牙能力	L	øD	Collets 適用筒夾
36263	MT2-WF12	M3~M12	425	36	TC312
36264	MT3-WF12	M3~M12	425	36	TC312B
36265	MT4-WF12	M3~M12	49	36	
36163	MT2-WF20	M8~M20	70	53	TC820
36164	MT3-WF20	M8~M20	70	53	TC820B
36165	MT4-WF20	M8~M20	70	53	
36365	MT4-WF33	M14~M33	110	78	TC1433 TC1433B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購

C-05

⊙ Quick Change Tapping Chuck Adapter

- Features:**
- Specially designed for tapping machine.
 - Can connect to tap collet.
 - Can easily quick change to the top

Application:

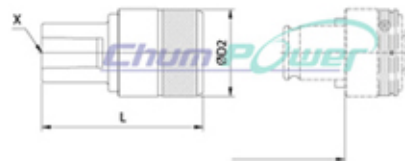
The products are suitable for Vertical Tapping Machines, Radial Drilling Machines, Vertical Drilling Machines, Milling Machines and other machines with reversible spindles and Power Tools and Air Tools.

⊙ 快換式連接桿

- 特性:**
- 攻牙機台專用
 - 可連接絲攻筒夾
 - 可快速轉換絲攻

用途:

此產品適用於直立式攻牙機, 旋臂式鑽床, 直立式鑽床, 銑床及其它可反轉的主軸及電鑽工具, 氣動工具。



Code NO. 型號	SPEC. 規格	Capacity 攻牙能力	L	øD2	X	Collets 適用筒夾
36206	JT6-SF12	M 3~M12	66	32	JT6	TC312 TC312B
36207	B16-SF12	M 3~M12	66	32	B16	
36208	JT25-SF12	M 3~M12	61	32	JT25	
36209	B12-SF12	M 3~M12	61	32	B12	
36106	JT6-SF20	M 8~M24	86	50	JT6	TC820
36107	B18-SF20	M 8~M24	92.5	50	B18	TC820B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購

C-06

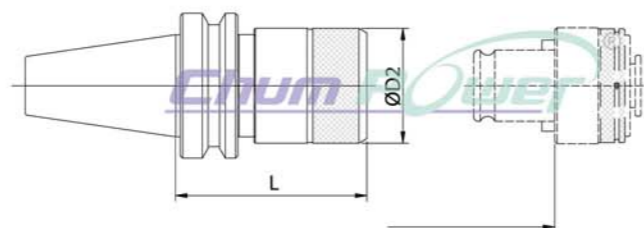


Quick Change Tapping Chucks

- Features:**
- Quick Change of Tap Adapters.
 - Special designed for tapping.

快換式絲攻刀桿

- 特性:**
- 快換式絲攻連接桿
 - 絲攻專用



Code NO. 型號	SPEC. 規格	Capacity 攻牙能力	L	ØD2	Collets 適用筒夾
36210	BT40-SF12	M 3~M12	60	32	TC312 TC312B
36110	BT40-SF20	M 8~M24	82	50	TC820 TC820B
36310	BT40-SF33	M14~M36	115	76	TC1433 TC1433B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購

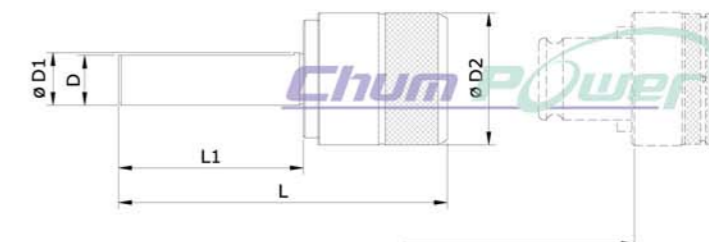


Quick Change Tapping Chucks

Straight Shank-Side-Lock&CNC Lathe

快換式絲攻刀桿

直柄型-側固及CNC車床專用



Code NO. 型號	SPEC. 規格	Capacity 攻牙能力	L	L1	D	ØD1	ØD2	Collets 適用筒夾
36202	D20A-SF12	M 3~M14	104	70	19	20	32	TC312
36212	D32A-SF12	M 3~M14	106	70	31	32	32	TC312B
36102	D20A-SF20	M 8~M24	124	70	19	20	50	TC820
36112	D32A-SF20	M 8~M24	124	70	31	32	50	TC820B
36302	D25A-SF33	M14~M36	169	70	24	25	76	TC1433
36312	D32A-SF33	M14~M36	169	70	31	32	76	TC1433B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購



Quick Change Tapping Chucks

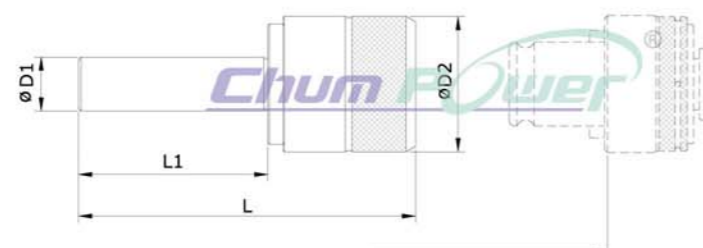
Straight Shank -Collets

- Features:**
- Quick Change of Tap Adapters.
 - Special designed for tapping.

快換式絲攻刀桿

直柄型-筒夾專用

- 特性:**
- 快換式絲攻連接桿
 - 絲攻專用



Code NO. 型號	SPEC. 規格	Capacity 攻牙能力	L	L1	ØD1	ØD2	Collets 適用筒夾
36201	D20-SF12	M 3~M12	104	70	20	32	TC312
36211	D32-SF12	M 3~M12	106	70	32	32	TC312B
36101	D20-SF20	M 8~M24	124	70	20	50	TC820
36111	D32-SF20	M 8~M24	124	70	32	50	TC820B
36301	D25-SF33	M14~M36	169	70	25	76	TC1433
36311	D32-SF33	M14~M36	169	70	32	76	TC1433B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購

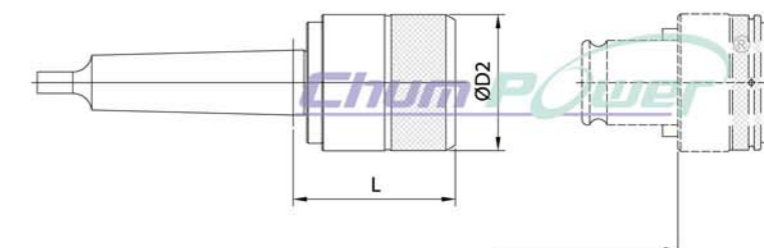


Quick Change Tapping Chucks

Morse Taper Shank

快換式絲攻刀桿

莫氏錐度型

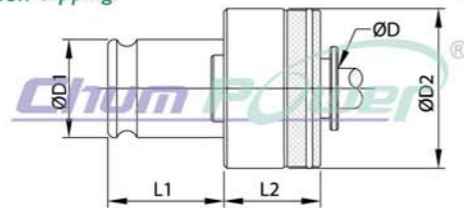


Code NO. 型號	SPEC. 規格	Capacity 攻牙能力	L	ØD2	Collets 適用筒夾
36203	MT2-SF12	M 3~M14	39	32	TC312
36204	MT3-SF12	M 3~M14	39	32	TC312B
36205	MT4-SF12	M 3~M14	34	32	
36103	MT2-SF20	M 8~M24	59	50	TC820
36104	MT3-SF20	M 8~M24	59	50	TC820B
36105	MT4-SF20	M 8~M24	55	50	
36304	MT3-SF33	M14~M36	104	76	TC1433
36305	MT4-SF33	M14~M36	105	76	TC1433B

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購



- Quick Change Tap Collets with Overload Clutch
 - JIS Type
 - 快換式絲攻夾頭-扭力型
 - JIS
- Features:**
- Overload Clutch is designed to prevent tap from breaking upon tapping.
- 特性:**
- 扭力型絲攻設計，可預防絲攻在攻牙時斷裂。



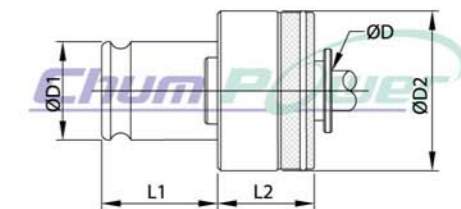
Code NO. 型號	TC312 JIS Tap		Tap Shank 絲攻尺寸 øD柄徑 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
35201	M 2		3.0 2.5	M 3~M14	22	25	19	32
35200	M 3	#5, #6	4.0 3.2					
35202	M 4	M4.5 #8	5.0 4.0					
35204	M 5	M5.5 #10	5.5 4.5					
35206	M 6	UNC 1/4	6.0 4.5					
35208		UNC 5/16	6.1 5.0					
35210	M 8	M 7	6.2 5.0					
35212	M10	M 9	7.0 5.5					
35213		M11	8.0 6.0					
35214	M12		8.5 6.5					
35216		UNC 1/2	9.0 7.0					
35218	M14	M15	10.5 8.0					

Code NO. 型號	TC820 JIS Tap		Tap Shank 絲攻尺寸 øD柄徑 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
35107	M 5	M5.5 #10	5.5 4.5	M 8~M24	36	30.5	31	50
35105	M 6	UNC 1/4	6.0 4.5					
35101		UNC 5/16	6.1 5.0					
35100	M 8	M 7	6.2 5.0					
35102	M10	M 9	7.0 5.5					
35103		M11	8.0 6.0					
35104	M12		8.5 6.5					
35106		UNC 1/2	9.0 7.0					
35108	M14	M15	10.5 8.0					
35110		UNC 5/8	12.0 9.0					
35112	M16		12.5 10.0					
35113		M17	13.0 10.0					
35114	M18		14.0 11.0					
35116	M20		15.0 12.0					
35118	M22		17.0 13.0					
35120	M24	M25	19.0 15.0					

Code NO. 型號	TC1433 JIS Tap		Tap Shank 絲攻尺寸 øD柄徑 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)	
35300	M14	M15	UNC 9/16	M14~M36	56	45	48	72	
35302			UNC 5/8						12.0 9.0
35304	M16		12.5 10.0						
35306		M17	13.0 10.0						
35308	M18		UNC 3/4						14.0 11.0
35310	M20		15.0 12.0						
35312	M22		UNC 7/8						17.0 13.0
35314	M24	M25	19.0 15.0						
35316	M27	M26	UNC 1						20.0 15.0
35318	M28		21.0 17.0						
35320			UNC 1 1/8						22.0 17.0
35322	M30		23.0 17.0						
35324	M32		UNC 1 1/4						24.0 19.0
35326	M33		25.0 19.0						
35328	M35	M34	UNC 1 3/8						26.0 21.0
35330	M36		28.0 21.0						

*Custom-Built products are available on request. *特製品可依客戶需求訂製

- Quick Change Tap Collets with Overload Clutch
 - DIN 371 Type
 - 快換式絲攻夾頭-扭力型
 - DIN 371
- Features:**
- Overload Clutch is designed to prevent tap from breaking upon tapping.
- 特性:**
- 扭力型絲攻設計，可預防絲攻在攻牙時斷裂。



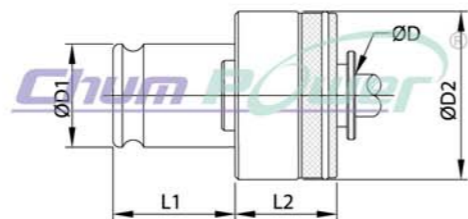
Code NO. 型號	TC312 DIN371 Tap		Tap Shank 絲攻尺寸 øD柄徑 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
35223	M1~M1.8		2.5 2.1	M 3~M14	22	25	19	32
35224	M 2~M2.5		2.8 2.1					
35225	M 3		3.5 2.7					
35226	M3.5		4.0 3.0					
35227	M 4		4.5 3.4					
35228	M4.5		6.0 4.9					
35229	M 5		6.0 4.9					
35230	M 6		6.0 4.9					
35231	M 8		8.0 6.2					
35232	M10		10.0 8.0					

Code NO. 型號	TC820 DIN371 Tap		Tap Shank 絲攻尺寸 øD柄徑 □四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
35130	M 5		6.0 4.9	M 8~M24	36	30.5	31	50
35131	M 6		6.0 4.9					
35132	M 8		8.0 6.2					
35133	M10		10.0 8.0					

*Custom-Built products are available on request. *特製品可依客戶需求訂製

Quick Change Tap Collets with Overload Clutch
DIN376 Type

快換式絲攻夾頭-扭力型
DIN376



Code NO. 型號	TC312 DIN 376 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	四方孔					
35240	M3.5	2.5	2.1	M 3~M14	22	25	19	32
35242	M 4	2.8	2.1					
35244	M4.5	3.5	2.7					
35246	M 5	3.5	2.7					
35248	M 6	4.5	3.4					
35250	M 7	5.5	4.3					
35252	M 8	6.0	4.9					
35254	M10	7.0	5.5					
35256	M12	9.0	7.0					
35258	M14	11.0	9.0					

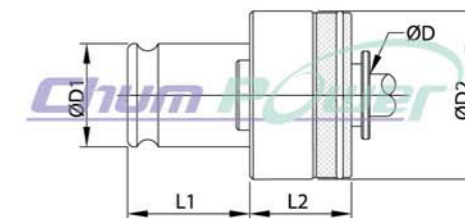
Code NO. 型號	TC820 DIN 376 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	四方孔					
35134	M 8	6.0	4.9	M 8~M24	36	30.5	31	50
35136	M10	7.0	5.5					
35138	M12	9.0	7.0					
35140	M14	11.0	9.0					
35142	M16	12.0	9.0					
35144	M18	14.0	11.0					
35146	M20	16.0	12.0					
35148	M22	18.0	14.5					
35150	M24	18.0	14.5					

Code NO. 型號	TC1433 DIN 376 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	四方孔					
35336	M14	11.0	9.0	M14~M36	56	45	48	72
35338	M16	12.0	9.0					
35340	M18	14.0	11.0					
35342	M20	16.0	12.0					
35344	M22	18.0	14.5					
35346	M24	18.0	14.5					
35348	M27	20.0	16.0					
35350	M30	22.0	18.0					
35352	M33	25.0	20.0					
35354	M36	28.0	22.0					

*Custom-Built products are available on request. *特製品可依客戶需求訂製

Quick Change Tap Collets with Overload Clutch
ISO 529 Type

快換式絲攻夾頭-扭力型
ISO 529



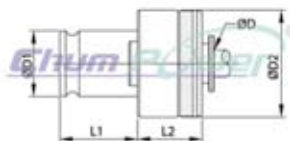
Code NO. 型號	TC312 ISO 529 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	四方孔					
35261	M1~M2	2.5	2.0	M 3~M14	22	25	19	32
35262	M2.2~M2.5	2.8	2.24					
35263	M 3	3.15	2.5					
35264	M3.5	3.55	2.8					
35265	M 4	4.0	3.15					
35266	M4.5	4.5	3.55					
35267	M 5	5.0	4.0					
35268	M 6	6.3	5.0					
35269	M 7	7.1	5.6					
35270	M 8	8.0	6.3					
35271	M 9	9.0	7.1					
35272	M10	10.0	8.0					

Code NO. 型號	TC820 ISO 529 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	四方孔					
35151	M 6	6.3	5.0	M 8~M24	36	30.5	31	50
35152	M 7	7.1	5.6					
35153	M 8	8.0	6.3					
35154	M 9	9.0	7.1					
35155	M10	10.0	8.0					

*Custom-Built products are available on request. *特製品可依客戶需求訂製



- ⊙ Quick Change Tap Collets with Overload Clutch
- ⊙ 快換式絲攻夾頭-扭力型
- ⊙ ISO 529/ 2283 Type
- ⊙ ISO 529/ 2283



Code NO. 型號	TC312 ISO 529/ 2283 Tap	Tap Shank 絲攻尺寸 eD 規格 □ 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35275	M 3	2.24 1.8	M3-M14	22	25	19	32
35276	M3.5	2.5 2.0					
35277	M 4	3.15 2.5					
35278	M4.5	3.55 2.8					
35279	M 5	4.0 3.15					
35280	M 6	4.5 3.55					
35281	M 7	5.6 4.5					
35282	M 8	6.3 5.0					
35283	M 9	7.1 5.6					
35284	M10	8.0 6.3					
35285	M12	9.0 7.1					

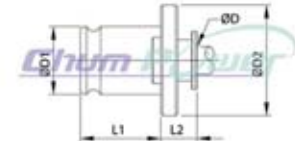
Code NO. 型號	TC820 ISO 529/ 2283 Tap	Tap Shank 絲攻尺寸 eD 規格 □ 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35156	M 8	6.3 5.0	M8-M24	36	30.5	31	50
35158	M 9	7.1 5.6					
35160	M10	8.0 6.3					
35162	M12	9.0 7.1					
35164	M14	11.2 9.0					
35166	M16	12.5 10.0					
35168	M18	14.0 11.2					
35170	M20	14.0 11.2					
35172	M22	16.0 12.5					
35174	M24	18.0 14.0					

Code NO. 型號	TC1433 ISO 529/ 2283 Tap	Tap Shank 絲攻尺寸 eD 規格 □ 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35356	M14	11.2 9.0	M14-M36	56	45	48	72
35358	M16	12.5 10.0					
35360	M18	14.0 11.2					
35362	M20	14.0 11.2					
35364	M22	16.0 12.5					
35366	M24	18.0 14.0					
35368	M27	20.0 16.0					
35370	M30	20.0 16.0					
35372	M33	22.4 18.0					
35374	M36	25.0 20.0					

*Custom-Built products are available on request. *特製品可依客戶需求訂製



- ⊙ Quick Change Tap Collets - Rigid Type
- ⊙ 快換式絲攻-剛性
- ⊙ JIS Type
- ⊙ JIS



Code NO. 型號	TC312B JIS Tap	Tap Shank 絲攻尺寸 eD 規格 □ 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35401	M 2	3.0 2.5	M3-M14	22	7	19	30
35400	M 3	4.0 3.2					
35402	M 4	M4.5 #8 5.0 4.0					
35404	M 5	M5.5 #10 5.5 4.5					
35406	M 6	UNC 1/4 6.0 4.5					
35408		UNC 5/16 6.1 5.0					
35410	M 8	M 7 6.2 5.0					
35412	M10	M 9 UNC 3/8 7.0 5.5					
35413	M10	M11 UNC 7/16 8.0 6.0					
35414	M12	8.5 6.5					
35416		UNC 1/2 9.0 7.0					
35418	M14	M15 UNC 9/16 10.5 8.0					

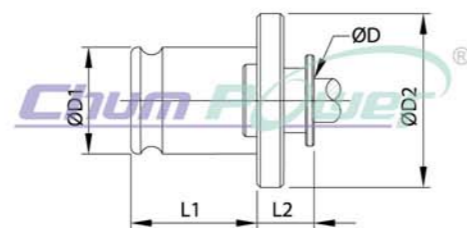
Code NO. 型號	TC820B JIS Tap	Tap Shank 絲攻尺寸 eD 規格 □ 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35500	M 8	M 7 6.2 5.0	M8-M24	36	11	31	48
35502	M10	M 9 UNC 3/8 7.0 5.5					
35503	M10	M11 UNC 7/16 8.0 6.0					
35504	M12	8.5 6.5					
35506		UNC 1/2 9.0 7.0					
35508	M14	M15 UNC 9/16 10.5 8.0					
35510		UNC5/8 12.0 9.0					
35512	M16	12.5 10.0					
35513		M17 13.0 10.0					
35514	M18	UNC3/4 14.0 11.0					
35516	M20	15.0 12.0					
35518	M22	UNC7/8 17.0 13.0					
35520	M24	M25 19.0 15.0					

Code NO. 型號	TC1433B JIS Tap	Tap Shank 絲攻尺寸 eD 規格 □ 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35600	M14	M15 UNC 9/16 10.5 8.0	M14-M36	56	14	48	70
35602		UNC5/8 12.0 9.0					
35604	M16	12.5 10.0					
35606		M17 13.0 10.0					
35608	M18	UNC3/4 14.0 11.0					
35610	M20	15.0 12.0					
35612	M22	UNC7/8 17.0 13.0					
35614	M24	M25 19.0 15.0					
35616	M27	M26 UNC1 20.0 15.0					
35618	M28	21.0 17.0					
35620		UNC1 1/8 22.0 17.0					
35622	M30	23.0 17.0					
35624	M32	UNC1 1/4 24.0 19.0					
35626	M33	25.0 19.0					
35628	M35	M34 UNC1 3/8 26.0 21.0					
35630	M36	28.0 21.0					

*Custom-Built products are available on request. *特製品可依客戶需求訂製



Quick Change Tap Collets-Rigid Type 快換式絲攻-剛性
DIN 371



Code NO. 型號	TC 308B DIN371 TAP	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD	□					
35824	M 1~M1.8	2.5	2.1	M 3~M 8	19.5	7	12.65	22
35825	M 2~M2.5	2.8	2.1					
35826	M 3	3.5	2.7					
35827	M3.5	4.0	3.0					
35828	M 4	4.5	3.4					
35829	M4.5	6.0	4.9					
35830	M 5	6.0	4.9					
35831	M 6	6.0	4.9					
35832	M 8	8.0	6.2					

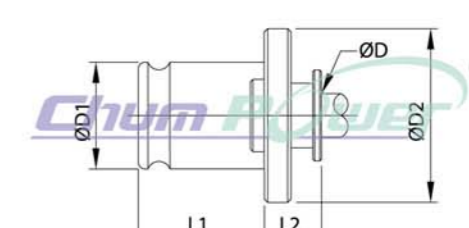
Code NO. 型號	TC312B DIN371 TAP	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD	□					
35423	M 1~M1.8	2.5	2.1	M 3~M14	22	7	19	30
35424	M 2~M2.5	2.8	2.1					
35425	M 3	3.5	2.7					
35426	M3.5	4.0	3.0					
35427	M 4	4.5	3.4					
35428	M4.5	6.0	4.9					
35429	M 5	6.0	4.9					
35430	M 6	6.0	4.9					
35431	M 8	8.0	6.2					
35432	M10	10.0	8.0					

Code NO. 型號	TC820B DIN371 TAP	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD	□					
35529	M4.5	6.0	4.9	M 8~M24	36	11	31	48
35530	M 5	6.0	4.9					
35531	M 6	6.0	4.9					
35532	M 8	8.0	6.2					
35533	M10	10.0	8.0					

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Quick Change Tap Collets-Rigid Type 快換式絲攻-剛性
DIN 376



Code NO. 型號	TC 308B DIN376 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	□四方孔					
35836	M3.5	2.5	2.1	M 3~M 8	19.5	7	12.65	22
35838	M 4	2.8	2.1					
35840	M4.5	3.5	2.7					
35842	M 5	3.5	2.7					
35844	M 6	4.5	3.4					
35846	M 7	5.5	4.3					
35848	M 8	6.0	4.9					
35850	M10	7.0	5.5					
35852	M12	9.0	7.0					
35854	M14	11.0	9.0					
35856	M16	12.0	9.0					

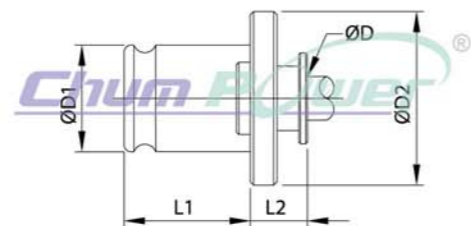
Code NO. 型號	TC312B DIN376 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	□四方孔					
35440	M3.5	2.5	2.1	M 3~M14	22	7	19	30
35442	M 4	2.8	2.1					
35444	M4.5	3.5	2.7					
35446	M 5	3.5	2.7					
35448	M 6	4.5	3.4					
35450	M 7	5.5	4.3					
35452	M 8	6.0	4.9					
35454	M10	7.0	5.5					
35456	M12	9.0	7.0					
35458	M14	11.0	9.0					

Code NO. 型號	TC820B DIN376 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	□四方孔					
35534	M 8	6.0	4.9	M 8~M24	36	11	31	48
35536	M10	7.0	5.5					
35538	M12	9.0	7.0					
35540	M14	11.0	9.0					
35542	M16	12.0	9.0					
35544	M18	14.0	11.0					
35546	M20	16.0	12.0					
35548	M22	18.0	14.5					
35550	M24	18.0	14.5					

Code NO. 型號	TC1433B DIN376 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	□四方孔					
35636	M14	11.0	9.0	M14~M36	56	14	48	70
35638	M16	12.0	9.0					
35640	M18	14.0	11.0					
35642	M20	16.0	12.0					
35644	M22	18.0	14.5					
35646	M24	18.0	14.5					
35648	M27	20.0	16.0					
35650	M30	22.0	18.0					
35652	M33	25.0	20.0					
35654	M36	28.0	22.0					

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Quick Change Tap Collets-Rigid Type 快換式絲攻-剛性
ISO 529

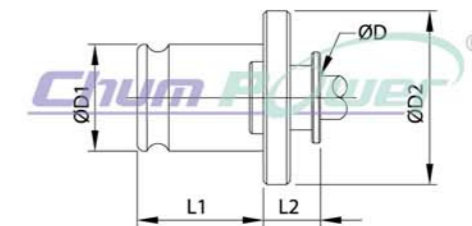


Code NO. 型號	TC312B ISO 529 TAP	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	四方孔					
35461	M 1~M 2	2.5	2.0	M 3~M14	22	7	19	30
35462	M2.2~M2.5	2.8	2.24					
35463	M 3	3.15	2.5					
35464	M3.5	3.55	2.8					
35465	M 4	4.0	3.15					
35466	M4.5	4.5	3.55					
35467	M 5	5.0	4.0					
35468	M 6	6.3	5.0					
35469	M7	7.1	5.6					
35470	M 8	8.0	6.3					
35471	M 9	9.0	7.1					
35472	M10	10.0	8.0					

Code NO. 型號	TC820B ISO 529 TAP	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (mm)	L2 (mm)	øD1 (mm)	øD2 (mm)
		øD柄徑	四方孔					
35551	M 6	6.3	5.0	M 8~M24	36	11	31	48
35552	M 7	7.1	5.6					
35553	M 8	8.0	6.3					
35554	M 9	9.0	7.1					
35555	M10	10.0	8.0					

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Quick Change Tap Collets - Rigid Type 快換式絲攻-剛性
ISO 529/2283



Code NO. 型號	TC312B ISO 529/ 2283 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (m/m)	L2 (m/m)	øD1 (m/m)	øD2 (m/m)
		øD柄徑	四方孔					
35475	M 3	2.24	1.8	M 3~M14	22	7	19	30
35476	M3.5	2.5	2.0					
35477	M 4	3.15	2.5					
35478	M4.5	3.55	2.8					
35479	M 5	4.0	3.15					
35480	M 6	4.5	3.55					
35481	M 7	5.6	4.5					
35482	M 8	6.3	5.0					
35483	M 9	7.1	5.6					
35484	M10	8.0	6.3					
35485	M12	9.0	7.1					
35486	M14	11.2	9.0					

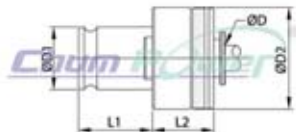
Code NO. 型號	TC820B ISO 529/ 2283 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (m/m)	L2 (m/m)	øD1 (m/m)	øD2 (m/m)
		øD柄徑	四方孔					
35556	M 8	6.3	5.0	M 8~M24	36	11	31	48
35558	M 9	7.1	5.6					
35560	M10	8.0	6.3					
35562	M12	9.0	7.1					
35564	M14	11.2	9.0					
35566	M16	12.5	10.0					
35568	M18	14.0	11.2					
35570	M20	14.0	11.2					
35572	M22	16.0	12.5					
35574	M24	18.0	14.0					

Code NO. 型號	TC1433B ISO 529/ 2283 Tap	Tap Shank 絲攻尺寸		Capacity 攻牙能力	L1 (m/m)	L2 (m/m)	øD1 (m/m)	øD2 (m/m)
		øD柄徑	四方孔					
35656	M14	11.2	9.0	M14~M36	56	14	48	70
35658	M16	12.5	10.0					
35660	M18	14.0	11.2					
35662	M20	14.0	11.2					
35664	M22	16.0	12.5					
35666	M24	18.0	14.0					
35668	M27	20.0	16.0					
35670	M30	20.0	16.0					
35672	M33	22.4	18.0					
35674	M36	25.0	20.0					

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- ◎ Quick Change Tap Collets with Overload Clutch
- ◎ 快換式絲攻夾頭-扭力型
- ◎ JIS Type
- ◎ JIS

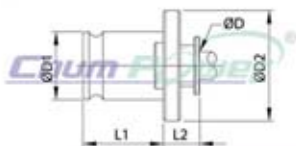


Code NO. 型號	TC312 JIS Tap	Tap Shank eD柄徑	絲攻尺寸 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35219	PT 1/8	8.0	6.0	PT 1/8 ~ PT 1/4	22	25	19	32
35220	PT 1/4	11.0	9.0					
Code NO. 型號	TC820 JIS Tap	Tap Shank eD柄徑	絲攻尺寸 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35121	PT 1/8	8.0	6.0	PT 1/8 ~ PT 1/2	36	30.5	31	50
35122	PT 1/4	11.0	9.0					
35123	PT 3/8	14.0	11.0					
35124	PT 1/2	18.0	14.0					
Code NO. 型號	TC1433 JIS Tap	Tap Shank eD柄徑	絲攻尺寸 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35331	PT 1/4	11.0	9.0	PT 1/4 ~ PT 1"	56	45	48	72
35332	PT 3/8	14.0	11.0					
35333	PT 1/2	18.0	14.0					
35334	PT 3/4	23.0	17.0					
35335	PT 1	26.0	21.0					

*Custom-Built products are available on request. *特製品可依客戶需求訂製



- ◎ Quick Change Tap Collets-Rigid Type
- ◎ 快換式絲攻-剛性
- ◎ JIS Type
- ◎ JIS



Code NO. 型號	TC 308B JIS Tap	Tap Shank eD柄徑	絲攻尺寸 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35818	PT 1/8	8.0	6.0	PT 1/8 ~ PT 1/4	19.5	7	12.65	22
35820	PT 1/4	11.0	9.0					
Code NO. 型號	TC312B JIS Tap	Tap Shank eD柄徑	絲攻尺寸 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35419	PT 1/8	8.0	6.0	PT 1/8 ~ PT 1/4	22	7	19	30
35420	PT 1/4	11.0	9.0					
Code NO. 型號	TC820B JIS Tap	Tap Shank eD柄徑	絲攻尺寸 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35521	PT 1/8	8.0	6.0	PT 1/8 ~ PT 1/2	36	11	31	48
35522	PT 1/4	11.0	9.0					
35523	PT 3/8	14.0	11.0					
35524	PT 1/2	18.0	14.0					
Code NO. 型號	TC1433B JIS Tap	Tap Shank eD柄徑	絲攻尺寸 四方孔	Capacity 攻牙能力	L1 (mm)	L2 (mm)	eD1 (mm)	eD2 (mm)
35631	PT 1/4	11.0	9.0	PT 1/4 ~ PT 1"	56	14	48	70
35632	PT 3/8	14.0	11.0					
35633	PT 1/2	18.0	14.0					
35634	PT 3/4	23.0	17.0					
35635	PT 1	26.0	21.0					

*Custom-Built products are available on request. *特製品可依客戶需求訂製

- ◎ Tap Chuck Reducer

Features:

The Tap Chuck Adapter is designed for transferring variety tapping machine system. It is easy to quick change for users and apply in different system tools.



- ◎ 絲攻轉接頭

特性:

絲攻轉接頭之設計目的，是為了轉接各種不同系統的絲攻機台，使用者可容易快換並節省工具成本。



絲接示意圖

Code NO. 型號	SPEC. 規格	L	ØD	eD	Collets 適用筒夾	Weight(g) 重量
3600400	TC820→TC312	40.4	48	31	TC312 TC312B	168
3600800	TC1433→TC820	62.6	69	48	TC820 TC820B	558

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購

- ◎ Adjustable Pin Wrenches



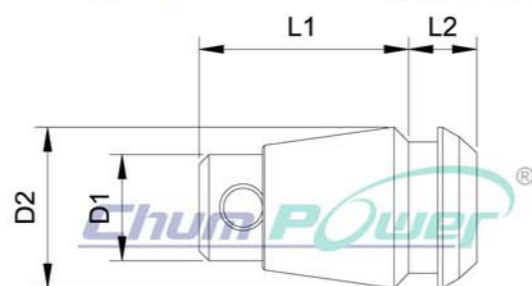
- ◎ 調整板手



Code NO. 型號	SPEC. 規格	eD	Collets 適用筒夾
STA0001	7-40	2.5	TC312 TC820
STA0002	11-60	4	TC1433

*Custom-Built products are available on request. *特製品可依客戶需求訂製

ER Compensation Tapping Collet ER伸縮攻牙筒夾



Code NO. 型號	ER11-TYPE	Clamping Range 夾持量 (mm)	L1	L2	øD1	øD2
80054-01	2.00	2~3.55	16.5	5	7	11.5
80054-02	2.24					
80054-03	2.50					
80054-04	2.80					
80054-05	3.00					
80054-06	3.15					
80054-07	3.55					

Code NO. 型號	ER16-TYPE	Clamping Range 夾持量 (mm)	L1	L2	øD1	øD2
80055-01	1.40	1.4~6	20	7	11	17
80055-02	1.60					
80055-03	1.80					
80055-04	2.00					
80055-05	2.24					
80055-06	2.50					
80055-07	2.80					
80055-08	3.00					
80055-09	3.15					
80055-10	3.50					
80055-11	3.55					
80055-12	4.00					
80055-13	4.50					
80055-14	5.00					
80055-15	5.50					
80055-16	5.60					
80055-17	6.00					

Code NO. 型號	ER20-TYPE	Clamping Range 夾持量 (mm)	L1	L2	øD1	øD2
80056-01	2.24	2.24~7	23	8	14	21
80056-02	2.50					
80056-03	2.80					
80056-04	3.00					
80056-05	3.15					
80056-06	3.50					
80056-07	3.55					
80056-08	4.00					
80056-09	4.50					
80056-10	5.00					
80056-11	5.50					
80056-12	5.60					
80056-13	6.00					
80056-14	6.20					
80056-15	6.30					
80056-16	7.00					

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購

Code NO. 型號	ER25-TYPE	Clamping Range 夾持量 (mm)	L1	L2	øD1	øD2
80057-01	2.50	2.5~10	24	10	19	26
80057-02	2.80					
80057-03	3.00					
80057-04	3.15					
80057-05	3.50					
80057-06	3.55					
80057-07	4.00					
80057-08	4.50					
80057-09	5.00					
80057-10	5.50					
80057-11	5.60					
80057-12	6.00					
80057-13	6.20					
80057-14	6.30					
80057-15	7.00					
80057-16	7.10					
80057-17	8.00					
80057-18	8.50					
80057-19	9.00					
80057-20	10.0					

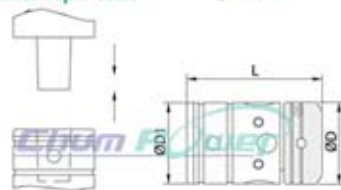
Code NO. 型號	ER32-TYPE	Clamping Range 夾持量 (mm)	L1	L2	øD1	øD2
80058-01	4.50	4.5~12.5	32	11	23	33
80058-02	5.00					
80058-03	5.50					
80058-04	5.60					
80058-05	6.00					
80058-06	6.20					
80058-07	6.30					
80058-08	7.00					
80058-09	7.10					
80058-10	8.00					
80058-11	8.50					
80058-12	9.00					
80058-13	10.0					
80058-14	10.5					
80058-15	11.0					
80058-16	11.2					
80058-17	12.0					
80058-18	12.5					

Code NO. 型號	ER40-TYPE	Clamping Range 夾持量 (mm)	L1	L2	øD1	øD2
80059-01	6.00	6~14	42	12	28	41
80059-02	6.20					
80059-03	6.30					
80059-04	7.00					
80059-05	7.10					
80059-06	8.00					
80059-07	8.50					
80059-08	9.00					
80059-09	10.0					
80059-10	10.5					
80059-11	11.0					
80059-12	11.2					
80059-13	12.0					
80059-14	12.5					
80059-15	14.0					

*Custom-Built products are available on request. *特製品可依客戶需求訂製
*Tap collets to be ordered separately. *絲攻夾頭需另購



- ◎ Universal Tap Chuck
- ◎ 通用型剛性夾頭
- ◎ With Inner Taper Hole
- ◎ 內孔型



Code NO. 型號	Size 尺寸	Capacity mm	攻牙能力 inch	Taper Mount NO. DIN or Jacobs 錐孔相接受號	L (mm)	eD (mm)	eD1 (mm)
35061	1/2"	M3-M12	1/8"-1/2"	JT6	72.5	43	42.5
35062	1/2"	M3-M12	1/8"-1/2"	JT2	72.5	43	42.5
35063	1/2"	M3-M12	1/8"-1/2"	JT25	72.5	43	42.5
35065	1/2"	M3-M12	1/8"-1/2"	B16	72.5	43	42.5
35055	5/8"	M3-M16	1/8"-5/8"	JT3			
35056	5/8"	M3-M16	1/8"-5/8"	JT6			
35057	5/8"	M3-M16	1/8"-5/8"	B18			
35081	3/4"	M9-M18	3/8"-3/4"	JT3	82.5	51	49
35083	3/4"	M9-M18	3/8"-3/4"	JT6	82.5	51	49
35085	3/4"	M9-M18	3/8"-3/4"	B18	82.5	51	49

*Custom-Built products are available on request. *特製品可依客戶需求訂製

- ◎ Universal Tap Chuck
- ◎ Morse Taper Shank

Application:

The products are suitable for CNC Machining Centers, CNC Turning Centers, High-Speed Center Lathes, Drilling Machines, Radial Drilling Machines, Air Tapping Machines, Milling Machines and other machines with reversible spindles.



- ◎ 通用型剛性夾頭
- ◎ 莫氏錐度型

用途:

此產品適用於CNC中心加工機, 高速車床, 垂直式磨床, 銑床及其其它可反轉的主軸。



Code NO. 型號	Size 尺寸	Capacity mm	攻牙能力 inch	Taper Mount NO. DIN or Jacobs 錐孔相接受號	L (mm)	L1 (mm)	eD (mm)	eD1 (mm)	Weight(g) 重量
35015	1/2"	M3-M12	1/8"-1/2"	MT2	129	49	43	42.5	
35017	1/2"	M3-M12	1/8"-1/2"	MT3	148	49	43	42.5	
35051	5/8"	M3-M16	1/8"-5/8"	MT2	136	60	48.5	46	732
35052	5/8"	M3-M16	1/8"-5/8"	MT3		60	48.5	46	
35031	3/4"	M9-M18	3/8"-3/4"	MT2	143.5	58	51	49	924
35033	3/4"	M9-M18	3/8"-3/4"	MT3	162.5	58	51	49	1074
35035	3/4"	M9-M18	3/8"-3/4"	MT4	187.5	58	51	49	1380

*Custom-Built products are available on request. *特製品可依客戶需求訂製

Air tapping Machine 氣動攻牙機



- ◎ Air tapping spindle
- ◎ Parallel arm
- ◎ Table mounting column
- ◎ Air unit
- ◎ Complete specifications

- ◎ 氣動攻牙機主軸
- ◎ 伸長臂
- ◎ 固定座
- ◎ 三點組合
- ◎ 規格齊全

機櫃 Cabinet : SMB9901

Code No. 型號	Type 規格	Capacity 攻牙能力	Spindle R.P.M 主軸轉速	Work Place 工作範圍
SMB0001	SW-0708	M8	700 R.P.M	Rmax 700 mm
SMB0002	SW-0712	M12	400 R.P.M	
SMB0003	SW-0716	M16	250 R.P.M	
SMB0004	SW-0720	M20	200 R.P.M	
SMB0005	SW-0722	M22	200 R.P.M	
SMB0006	SW-0724	M24	100 R.P.M	
SMB0007	SW-1408	M8	700 R.P.M	Rmax 1400 mm
SMB0008	SW-1412	M12	400 R.P.M	
SMB0009	SW-1416	M16	250 R.P.M	
SMB0010	SW-1420	M20	200 R.P.M	
SMB0011	SW-1422	M22	200 R.P.M	
SMB0012	SW-1424	M24	100 R.P.M	
SMB0013	SW-1608	M8	700 R.P.M	Rmax 1600 mm
SMB0014	SW-1612	M12	400 R.P.M	
SMB0015	SW-1616	M16	250 R.P.M	
SMB0016	SW-1620	M20	200 R.P.M	
SMB0017	SW-1622	M22	200 R.P.M	
SMB0018	SW-1624	M24	100 R.P.M	
SMB0019	SW-1908	M8	700 R.P.M	Rmax 1900 mm
SMB0020	SW-1912	M12	400 R.P.M	
SMB0021	SW-1916	M16	250 R.P.M	
SMB0022	SW-1920	M20	200 R.P.M	
SMB0023	SW-1922	M22	200 R.P.M	
SMB0024	SW-1924	M24	100 R.P.M	



Spindle Clamping System

主軸配件



Makes Machine Tools Complete

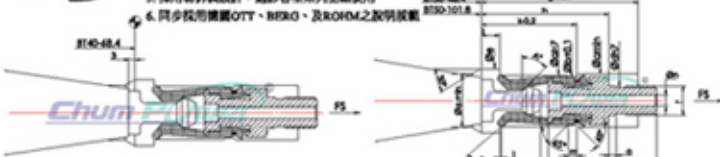
MAS 403 PULL STUD TYPE CLAMPING 四瓣爪 MAS 403 PULL STUD TYPE CLAMPING

Design Features :

- All the above materials are composed of alloy steel.
- The Gripper is in accordance with the global standard of Pull Stud J56339 (MAS403) system.
- Grippers are developed for integrated and comprise four clamping segments, which is suitable for high and low-speed turning spindles.
- The surfaces of Grippers are wear-resisting, anticorrosive and special tensile force treatment. The tensile force can bear 1,000 KG force which means 3 million times of lifetime testing circle in our each Grippers. (**%BT40)
- Easy to assemble and suitable for every type of spindles.
- Our Grippers adopt the rules of BERG, OTT and Rohm standards.

特點

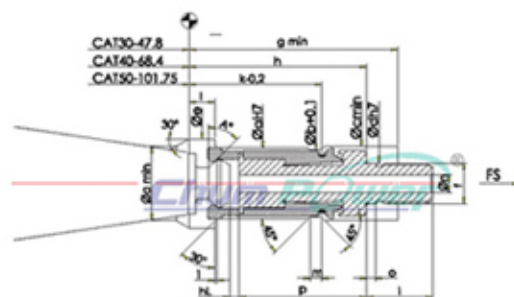
- 四瓣爪材料皆以合金鋼製成
- 此四瓣爪依據拉拔J56339(MAS 403)標準製作
- 一體式分瓣爪片設計適用於各種高低轉速之主軸
- 爪片表面經耐磨耗、防銹蝕之特殊處理，拉力經破壞壽命測試機測試可承受1000KG、300萬次(**BT40為例)
- 採用易拆裝設計，適用於各型系列主軸使用
- 同步採用德國OTT、BERG、及ROHM之說明規範



Code No. 型號	Spec. 規格	A*	a	b	c	d	e	g	h	f
90001	BT30-45°	45°								
90002	BT30-60°	60°	19	17.8	20.2	10	24	50	47	M10*1.5P
90014	BT30-90°	90°								
9002098	BT40-45°	45°								
9002198	BT40-60°	60°	28	26.4	28.5	16	35	82	70	M16*1.5P
9002298	BT40-90°	90°								
90023	BT50-45°	45°								
90024	BT50-60°	60°	43	40.4	43.5	22	54	98	90	M22*1.5P
90015	BT50-90°	90°								
90035	BT60-45°	45°								
90036	BT60-60°	60°	62	58.6	62.5	30	77	130	125	M30*1.5P
90037	BT60-90°	90°								

Code No. 型號	Spec. 規格	i	k	l	m	n	o	p	hL	Fs max kN
90001	BT30-45°									
90002	BT30-60°	20°	37	7.5	3.5	3	3	20.5	3.5	10
90014	BT30-90°									
90003	BT40-45°									
90004	BT40-60°	26°	52	10	4.5	6	4	33	5	18
90005	BT40-90°									
90006	BT50-45°									
90007	BT50-60°	35°	69	16	5	9.5	5	37	5	35
90015	BT50-90°									
90035	BT60-45°									
90036	BT60-60°	40°	96	23	6.5	16	5	49.5	11	70
90037	BT60-90°									

CAT PULL STUD TYPE CLAMPING 四瓣爪 CAT PULL STUD TYPE CLAMPING



Design Features :

- All the above materials are composed of alloy steel.
- The Gripper is in accordance with the global standard of Pull Stud J56339 (MAS403) system.
- Grippers are developed for integrated and comprise four clamping segments, which is suitable for high and low-speed turning spindles.
- The surfaces of Grippers are wear-resisting, anticorrosive and special tensile force treatment. The tensile force can bear 1,000 KG force which means 3 million times of lifetime testing circle in our each Grippers. (**%CAT40)
- Easy to assemble and suitable for every type of spindles.
- Our Grippers adopt the rules of BERG, OTT and Rohm standards.

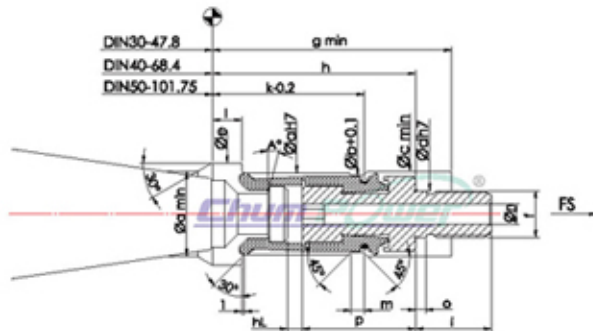
特點

- 四瓣爪材料皆以合金鋼製成
- 此四瓣爪依據拉拔J56339(MAS 403)標準製作
- 一體式分瓣爪片設計適用於各種高低轉速之主軸
- 爪片表面經耐磨耗、防銹蝕之特殊處理，拉力經破壞壽命測試機測試可承受1000KG、300萬次(**CAT40為例)
- 採用易拆裝設計，適用於各型系列主軸使用
- 同步採用德國OTT、BERG、及ROHM之說明規範

Code No. 型號	Spec. 規格	A*	a	b	c	d	e	g	h	f
90008	CAT30		19	17.8	19.5	10	24	50	47	M10*1.5P
90009	CAT40	45°	28	26.4	28.5	16	35	82	70	M16*1.5P
90010	CAT50		43	40.4	43.5	22	54	98	90	M22*1.5P

Code No. 型號	Spec. 規格	i	k	l	m	n	o	p	hL	Fs max kN
90008	CAT30	20	37	7.5	3.5	4	3	33	2.5	10
90009	CAT40	26	52	10	4.5	7	4	50	4	18
90010	CAT50	35	69	16	5	9.5	5	58	6.5	35

DIN69872 PULL STUD TYPE CLAMPING 四瓣爪 DIN69872 PULL STUD TYPE CLAMPING



Design Features :

- All the above materials are composed of alloy steel.
- The Gripper is in accordance with the global standard of Pull Stud JIS6339 (MAS403) system.
- Grippers are developed for integrated and comprise four clamping segments, which is suitable for high and low-speed turning spindles.
- The surfaces of Grippers are wear-resisting, anticorrosive and special tensile force treatment. The tensile force can bear 1,000 KG force which means 3 million times of lifetime testing circle in our each Grippers. (**@DIN40)
- Easy to assembly and suitable for every type of spindles.
- Our Grippers adopt the rules of BERG, OTT and ROHM standards.

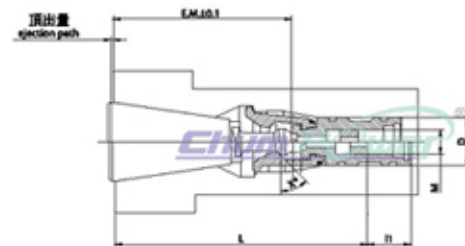
特點

- 四瓣爪材料皆以合金鋼製成
- 此四瓣爪依據拉徑JIS6339(MAS 403)標準製作
- 一體式分瓣爪片設計適用於各種高低轉速之主軸
- 爪片表面經耐磨耗、防腐蝕之特殊處理，拉力經連續壽命測試機測試可承受1000Kg、300萬次 (**@DIN40為例)
- 採用易拆裝設計，適用於各型系列主軸使用
- 同步採用德國OTT、BERG、及ROHM之說明規範

Code No. 型號	Spec. 規格	A*	a	b	c	d	e	g	h	f
90011	DIN30	15°	19	17.8	19.5	10	24	50	47	M10*1.5P
90012	DIN40		28	26.4	28.5	16	35	82	70	M16*1.5P
90013	DIN50		43	40.4	43.5	22	54	98	90	M22*1.5P

Code No. 型號	Spec. 規格	l	k	l	m	n	o	p	hL	F _s max kN
90011	DIN30	20	37	7.5	3.5	4	3	19.5	3.5	10
90012	DIN40	26	52	10	4.5	7	4	39	5	18
90013	DIN50	35	69	16	5	9.5	5	48	8	35

OTT PULL STUD TYPE CLAMPING 四瓣爪 OTT PULL STUD TYPE CLAMPING



Design Features :

- All the above materials are composed of alloy steel.
- The Gripper is in accordance with the global standard of Pull Stud JIS6339 (MAS403) system.
- The surfaces of Grippers are wear-resisting, anticorrosive and special tensile force treatment. The tensile force can bear 1,000 KG force which means 3 million times of lifetime testing circle in our each Grippers. (**@BT40)
- Easy to assembly and suitable for every type of spindles.
- Our Grippers are followed the examples of OTT and ROHM standards.

特點

- 四瓣爪材料皆以合金鋼製成
- 此四瓣爪依據拉徑JIS6339(MAS 403)標準製作
- 爪片表面經耐磨耗、防腐蝕之特殊處理，拉力經連續壽命測試機測試可承受1000Kg、300萬次 (**@BT40為例)
- 採用易拆裝設計，適用於各型系列主軸使用
- 同步採用德國OTT及ROHM之說明規範

BT

Code No. 型號	Spec. 規格	D	L	l1	E.M	M	ejection path 頂出量
90051	BT30-45°	19	109	23	70.4	M10x1.25	1
90052	BT30-60°	19	109	23	70.4	M10x1.25	1
90053	BT30-90°	19	109	23	70.4	M10x1.25	1
90054	BT40-45°	27	143	24.5	99.7	M14x1.5	0.65
90055	BT40-60°	27	143	24.5	99.7	M14x1.5	0.65
90056	BT40-90°	27	143	24.5	99.7	M14x1.5	0.65
90057	BT50-45°	40	188.5	31.5	145.75	M16x1.5	1
90058	BT50-60°	40	188.5	31.5	145.75	M16x1.5	1
90059	BT50-90°	40	188.5	31.5	145.75	M16x1.5	1

CAT

Code No. 型號	Spec. 規格	D	L	l1	E.M	M	ejection path 頂出量
90060	CAT 30	19	109	23	57.7	M10x1.25	1.6
90061	CAT 40	27	143	24.5	82.9	M14x1.5	1.6
90062	CAT 50	40	188.5	31.5	126	M16x1.5	1

DIN

Code No. 型號	Spec. 規格	D	L	l1	E.M	M	ejection path 頂出量
90063	DIN 30	19	109	23	70.7	M10x1.25	1
90064	DIN 40	27	143	24.5	93.6	M14x1.5	0.65
90065	DIN 50	40	188.5	31.5	134.6	M16x1.5	1

Gripper 倍力夾爪

Force Multiplication System 倍力機構

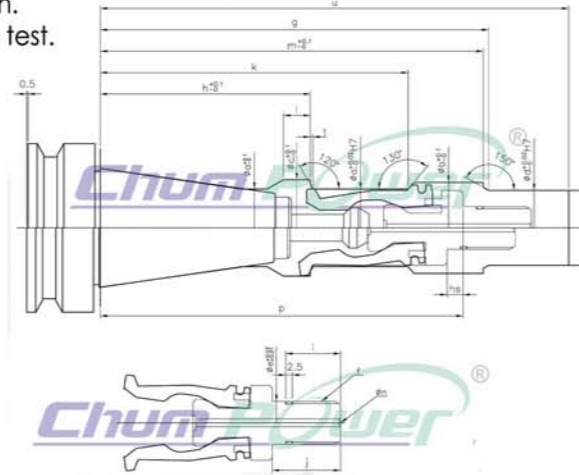


Design Features :

- Getting better dynamic characteristics by changing the numbers of washer and the length of spring.
- The stress of spindle is smaller at pulling operation.
- Due to anti-lock mechanism, bearing loading is reduced.
- Tool-changing speed is raised.
- Pulling force is increased and put-in force is lessened in the limited space.
- Lessening the length of pulling system and spindle, which results in the life circle of pulling system prolonged.
- Coating treatment: wear-resistance and anti-corrosion.
- It has been tested by 1.2 million times of performance test.

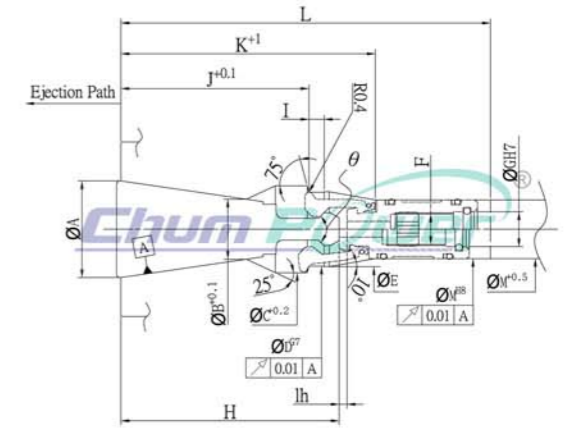
特點

- 可減少碟形彈片的數量或彈簧長度而得到較佳的動態特性
- 拉刀時，對心軸產生應力較小
- 無需扣住心軸機構，所以對軸承負荷減少
- 提高換刀速度
- 在有限空間下，可增加其拉刀力
- 打刀力可相對減少
- 可減少拉刀系統總長度進而縮短主軸總長度
- 拉刀系統壽命的延長
- 表面經特殊鍍膜處理，耐磨耗、抗腐蝕
- 本系列產品經實機連續壽命測試120萬次



Code No. 型號	Spec. 規格	a	b	c	d	e	f	g	h	i	j	k	l	m	n	p	hs	u
90251	BT30-45°	20	22	24	16	10	M10xP1.5	102	56.5	14	18	80±0.027	4	100	3	96	5	130
90254	BT40-45°	29	34	36	28	16	M16xP1.5	145	78.4	21	26	115±0.027	10	143	5	146	6	175
90257	BT50-45°	44	50	54	38	22	M22xP1.5	214	118	28	35	176.75±0.032	16	209	6	225	9	251
90261	CAT40	29	34	36	28	16	M16xP1.5	145	78.4	21	26	115±0.027	10	143	5	146	6	175
90264	DIN40	29	34	36	28	16	M16xP1.5	145	78.4	21	26	115±0.027	10	143	5	146	6	175
90265	DIN50	44	50	54	38	22	M22xP1.5	214	118	28	35	176.75±0.032	16	209	6	225	9	251

ROHM PULL STUD TYPE CLAMPING 四瓣爪 ROHM PULL STUD TYPE CLAMPING



Code No. 型號	Spec. BT X° 規格	θ	A	B	C	D	E	F	G	H	I	J	K	L	M	lh	ejection path 頂出量
90201	BT30-45°	45°															
90202	BT30-60°	60°	31.75	19.5	24.5	19.5	20	M10×1.25P	12	71.4	6	63.5	80	135	19	4.5	0.5
90203	BT30-90°	90°															
90204	BT40-45°	45°															
90205	BT40-60°	60°	44.45	27.6	40	34	34.5	M14×1.5P	16	100.4	7	86.5	117	170	27	4.5	1.0
90206	BT40-90°	90°															
90207	BT50-45°	45°															
90208	BT50-60°	60°	69.85	43	56	49	49.5	M16×1.5P	20	147.4	8	126.5	163	230	40	4.8	1.0
90209	BT50-90°	90°															

Code No. 型號	Spec. BT X° 規格	θ	A	B	C	D	E	F	G	H	I	J	K	L	M	lh	ejection path 頂出量
90210	CAT30		31.75	19.5	24.5	19.5	20	-	12	-	6	63.5	80	125	19	-	-
90211	CAT40	90°	44.45	27.6	40	34	34.5	M14×1.5P	16	83.6	7	79.5	117	180	27	5	1.0
90212	CAT50		69.85	43	56	49	49.5	M16×1.5P	20	126	8	126.5	163	230	40	6	1.0

Code No. 型號	Spec. BT X° 規格	θ	A	B	C	D	E	F	G	H	I	J	K	L	M	lh	ejection path 頂出量
90213	DIN30		31.75	19.5	24.5	19.5	20	M10×1.25P	12	71.3	6	63.5	80	135	19	3.6	0.5
90214	DIN40	150°	44.45	27.6	40	35	34.5	M14×1.5P	16	98.2	7	86.5	117	170	27	3.8	1.0
90215	DIN50		69.85	43	53	49	49.5	M16×1.5P	20	136.6	8	126.5	163	230	40	4.8	1.0

Shaft Coupling 連軸器

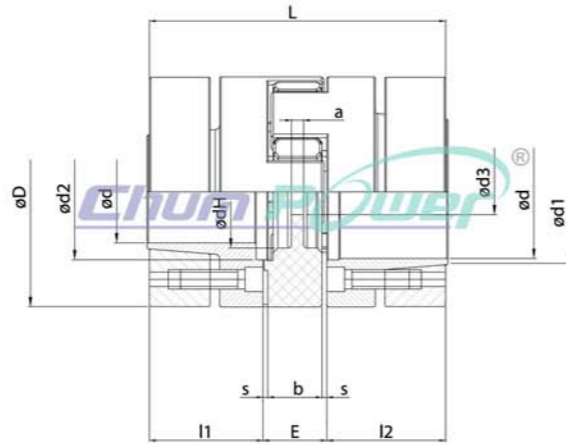


Features :

- According to DIN 69002, which is suitable for multiple spindle drives.
- Developed for stub spindles
- Integrated clamping system
- Designed for main spindle drives with high speeds
- Suitable for peripheral speeds of 50 m/s and more
- Backlash-free and high precisely shaft coupling
- Easy assembly by clamping and simply screws inside

特點

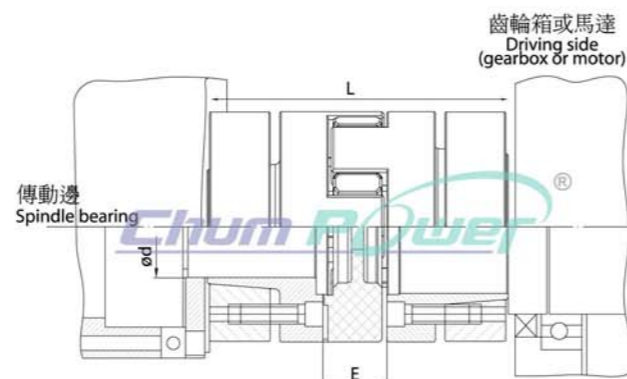
- 依據DIN69002標準製作，適用於複合加工機
- 具完備的短軸規格
- 結合完整的夾具系統
- 針對高轉速主軸設計
- 可適用於圓周回轉速50m/s以上
- 具高精度、動平衡結構
- 易拆裝



Code No. 型號	Size 尺寸	Dimensions(mm) 規格											
		d	D	d _H	L	I ₁ /I ₂	E	b	s	a	d ₁	d ₂	d ₃
SAA0001	14P	14"	32	10.5	50	18.5	13	10	1.5	2	17	17	8.5
SAA0002	19P37.5	16"	37.5	18	66	25	16	12	2	3	20	19	9.5
SAA0003	19P	19"	40	18	66	25	16	12	2	3	23	22	9.5
SAA0004	24P50	24"	50	27	78	30	18	14	2	3	28	29	12.5
SAA0005	24P	25"	55	27	78	30	18	14	2	3	30	30	12.5
SAA0006	28P	35"	65	30	90	35	20	15	2.5	4	40	40	14.5
SAA0007	38P	40"	80	38	114	45	24	18	3	4	46	46	16.5
SAA0008	42P	42"	95	46	126	50	26	20	3	4	52	55	18.5
SAA0009	48P	45"	105	51	140	56	28	21	3.5	4	52	60	20.5
SAA0010	55P	50"	120	60	160	65	30	22	4	4.5	55	72	22.5

Selection for stub spindles

Spindle drive Size	Size	Dimensions(mm)				
		d	D	I ₁ /I ₂	L	E
25x20	14 P	14	32	18.5	50	13
32kx25	19 P37.5	16	37.5	25	66	16
32gx30	19 P	19	40	25	66	16
40x35	24 P50	24	50	30	78	18
50x45	24 P	25	55	30	78	18
63x55	28 P	35	65	35	90	20



HSK Gripper 六瓣爪

Balancing Whole Gripper for HSK Toolholder as per DIN 69893



- Integrated Structure: Easy to be installed.
- High Rigidity. High Durability.
- Special Design: High Reliability.
- Suitable for high-speed machine center. To make HSK Tool-Holders steady.

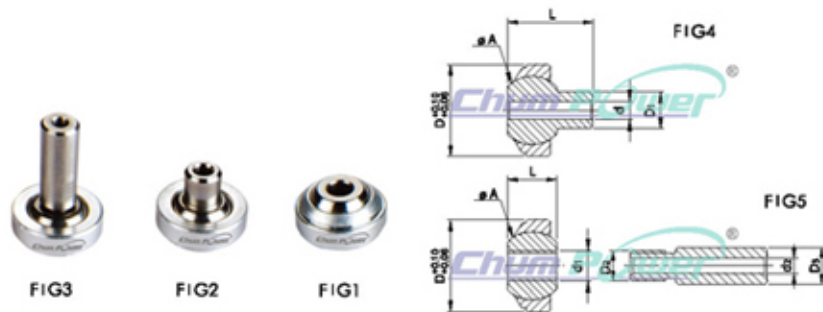
- 一體式結構，容易安裝。
- 剛性好，耐用。
- 特殊設計，作動可靠。
- 使用在HSK系列刀桿高速運轉時，平衡穩定。

Code No. 型號	A	B	E	Code No. 型號	F
90069	63	80	63	90077	80
90070	80	100	-	-	-
90071	100	125	-	-	-
90072	125	160	-	-	-

Code No. 型號	A	B	E	Code No. 型號	F
90074	-	-	25	-	-
90066	32	40	32	-	-
90067	40	50	40	90075	50
90068	50	63	50	90076	63

Spray Nozzle Series

Press Fit Type



The Coolant Spray Nozzle could easily adjust its direction and spray precisely. When the coolants correspond with three pressures-low, medium and high pressures, it can precisely aim at workpiece. They are suitable for CNC Machine Center, CNC Lathes, CNC Milling Machine, Grinding Machine and so on. The products can enhance the processing efficiency and accuracy. Also it is helpful for extending the lifetime of tools and decreasing the cost.

噴水頭系列 壓配型

可任意調整噴水口角度，並有效對應低、中、高冷卻液液壓，正確噴向磨頭點。適用於綜合切削機、銑床、車床等各式工具機。此項產品除可提高加工效率及精度外，亦有助於延長工具使用壽命和減少成本消耗。

Code No. 型號	Nominal dimensions mm 規格							Ball dia 球徑	Allowable tilting angle degree 可調整角度	FIG	
	D	D1	D2	D3	L	d	d1				d2
90101	15	-	-	-	8	-	ø4	-	7/16"	29	1
90102	15	ø6	-	-	14	ø6x5L	-	-	7/16"	29	2,4
90103	15	-	M5x0.8	ø6	8	-	M5x0.8	2.5	7/16"	29	3,5
90104	12	-	-	-	7	-	M5x0.8	-	9mm	28	1
90108	10	-	-	-	5.5	-	M4x0.7	-	9mm	23	1

Spray Nozzle Series

Thread Mount Type

The Coolant Spray Nozzle could easily adjust its direction and spray precisely. When the coolants correspond with three pressures-low, medium and high pressures, it can improve cooling efficiency of tools. They are suitable for CNC Machine Center, CNC Lathes, CNC Milling Machine, Grinding Machine and so on. The products can enhance the processing efficiency and accuracy. Also it is helpful for extending the lifetime of tools and decreasing the cost.

噴水頭系列 螺紋型

可任意調整噴水口角度，並有效對應低、中、高冷卻液液壓，提高刀具冷卻效率。適用於綜合切削機、銑床、車床等各式工具機。此項產品除可提高加工效率及精度外，亦有助於延長工具使用壽命和減少成本消耗。



Code No. 型號	Thread mount 螺紋規格	L	L1	D1	D2	d	H
9011100	PT 1/8	20	10	6	5	4	17
9011200	PT 1/8	40					
9011000	PT 1/8	60					
9011300	PT 1/4	20	10	6	5	4	17
9011400	PT 1/4	40					
9011500	PT 1/4	60					
9011600	PT 3/8	30	13	8	10	6	24
9011700	PT 3/8	50					
9011800	PT 3/8	70					
9011900	PT 1/2	40	18	10	12	8	32
9012000	PT 1/2	60					
9012100	PT 1/2	80					
9012200	M10*1.25P	20	8	6	5	4	17
9012300	M10*1.25P	40					
9012400	M10*1.25P	60					
9012500	M20*1.5P	30	13	8	10	6	24
9012600	M20*1.5P	50					
9012700	M20*1.5P	70					
9012800	M24*2.0P	40	18	10	12	8	31
9012900	M24*2.0P	60					
9013000	M24*2.0P	80					
9013100	NPT 1/4	20	10	6	5	4	17
9013200	NPT 1/4	40					
9013300	NPT 1/4	60					
9013400	NPT 3/8	30	13	8	10	6	24
9013500	NPT 3/8	50					
9013600	NPT 3/8	70					

Spray Nozzle Series

Thread Mount Type

The Coolant Spray Nozzle could easily adjust its direction and spray precisely. When the coolants correspond with three pressures-low, medium and high pressures, it can improve cooling efficiency of tools. They are suitable for CNC Machine Center, CNC Lathes, CNC Milling Machine, Grinding Machine and so on. The products can enhance the processing efficiency and accuracy. Also it is helpful for extending the lifetime of tools and decreasing the cost.

Moreover, it is accordance with RoHS standard and passed SGS certification which avoids polluting the environment.

噴水頭系列 螺紋型

可任意調整噴水口角度，並有效對應低、中、高冷卻液液壓，提昇刀具冷卻效率，適用於綜合切削機、銑床、車床等各式工具機。此項產品除可提高加工效率及精度外，亦有助於延長工具使用壽命和減少成本消耗。符合RoHS標準，且高過SGS認證，不污染環境。



Code No. 型號	Thread mount 螺紋組接	L	L1	D1	D2	d	H
9011110	PT 1/8	20					
9011210	PT 1/8	40	10	6	5	4	17
9011010	PT 1/8	60					
9011310	PT 1/4	20					
9011410	PT 1/4	40	10	6	5	4	17
9011510	PT 1/4	60					
9011610	PT 3/8	30					
9011710	PT 3/8	50	13	8	10	6	24
9011810	PT 3/8	70					
9011910	PT 1/2	40					
9012010	PT 1/2	60	18	10	12	8	32
9012110	PT 1/2	80					
9012210	M10*1.25P	20					
9012310	M10*1.25P	40	8	6	5	4	17
9012410	M10*1.25P	60					
9012510	M20*1.5P	30					
9012610	M20*1.5P	50	13	8	10	6	24
9012710	M20*1.5P	70					
9012810	M24*2.0P	40					
9012910	M24*2.0P	60	18	10	12	8	31
9013010	M24*2.0P	80					
9013110	NPT 1/4	20					
9013210	NPT 1/4	40	10	6	5	4	17
9013310	NPT 1/4	60					
9013410	NPT 3/8	30					
9013510	NPT 3/8	50	13	8	10	6	24
9013610	NPT 3/8	70					

Spray Nozzle Series

Leak Lock Type

Special design for avoiding oil leaking. Not delaying spraying fluid which prolongs the longevity of the tool holders. Slope angle: $\pm 35^\circ$. The angle is easy to adjust by hand. Easy operation and greatest stability when operating. We have Multiple sizes for your reference. Customer requested sizes are available. Leak lock spray nozzle is made by stainless steel. It extends the lifetime of the tools and avoids corrosion. Moreover, it is accordance with RoHS standard and passed SGS certification which avoids polluting the environment. We have self-made testing equipment and QC before delivery. With our quality assurance, you can have confidence in us.

噴水頭系列 止漏型

特殊設計可立即停止供給切削液，將不再有切削液滴漏的困擾，且出水不延遲，可延長刀具使用壽命，傾斜角度： $\pm 35^\circ$ ，以手即可輕易調整至您希望的角度，容易操作使用且穩定性佳，規格齊全供您選擇，並可依客戶需求訂作，亦有不銹鋼材質的噴水頭，可延長產品壽命，防止生銹，且通過SGS認證，符合RoHS標準，不污染環境，擁有自製的檢驗設備，出貨前一律全檢，讓您對品質更安心。



Alloy Steel Type 合金鋼型

Code No. 型號	Thread mount 螺紋組接	L	L1	D1	D2	d	H
9017500	PT 1/8	40					
9017600	PT 1/8	60	10	6	6	4	17
9017700	PT 1/4	40					
9017800	PT 1/4	60					
9017900	PT 3/8	30					
9018000	PT 3/8	50	13	8	10	6	24
9018100	PT 3/8	70					
9018500	NPT 1/4	40					
9018600	NPT 1/4	60	10	6	6	4	17
9018700	NPT 3/8	30					
9018800	NPT 3/8	50	13	8	10	6	24
9018900	NPT 3/8	70					
9019000	M10*1.25P	40					
9019100	M10*1.25P	60	10	6	6	4	17
9019200	M20*1.5P	30					
9019300	M20*1.5P	50	13	8	10	6	24
9019400	M20*1.5P	70					

Stainless Type 不銹鋼型

Code No. 型號	Thread mount 螺紋組接	L	L1	D1	D2	d	H
9017510	PT 1/8	40					
9017610	PT 1/8	60	10	6	6	4	17
9017710	PT 1/4	40					
9017810	PT 1/4	60					
9017910	PT 3/8	30					
9018010	PT 3/8	50	13	8	10	6	24
9018110	PT 3/8	70					
9018510	NPT 1/4	40					
9018610	NPT 1/4	60	10	6	6	4	17
9018710	NPT 3/8	30					
9018810	NPT 3/8	50	13	8	10	6	24
9018910	NPT 3/8	70					
9019010	M10*1.25P	40					
9019110	M10*1.25P	60	10	6	6	4	17
9019210	M20*1.5P	30					
9019310	M20*1.5P	50	13	8	10	6	24
9019410	M20*1.5P	70					

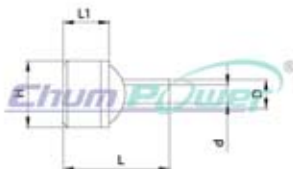
Spray Nozzle Series

Plastic Type

The Coolant Spray Nozzle could easily adjust its direction and spray precisely. When the coolants correspond with three pressures-low, medium and high pressures, it can improve cooling efficiency of tools. They are suitable for CNC Machine Center, CNC Lathes, CNC Milling Machine, Grinding Machine and so on. The products can enhance the processing efficiency and accuracy. Also it is helpful for extending the lifetime of tools and decreasing the cost.

噴水頭系列 塑料型

可任意調整噴水口角度，並有效對應低、中、高冷卻液液壓，提升刀具冷卻效率。適用於綜合切削機、銑床、車床等各式工具機。此項產品除可提高加工效率及精度外，亦有助於延長工具使用壽命和減少成本消耗。



Code No. 型號	H	L	L1	D	d	FIG
90151	10	-	7	6	3	1
90152	12	-	8	M5	3	1
90154	14	-	10	M6	3.8	1
90156	16	-	11	M7	4.4	1
90157	14	17	10	6	3	2
90158	12	15	8	5	3	2
9015200	12	15	8	5	3	3
9015400	14	22	10	6	3.8	3
9015600	16	25.5	11	7	4.4	3



壓配視圖

Spindle Accuracy Testing Bar

主軸精度測試棒

Features:

1. Accuracy Guarantee
2. Complete Product Range

特點

1. 精度保證
2. 具備完整規格



Code No. 型號	Size 規格	D	L
SWA0001	BT30-250	30	250
SWA0002	BT40-350	40	350
SWA0003	BT50-350	63	350
SWA0004	NT30-250	30	250
SWA0005	NT40-350	40	350
SWA0006	NT50-350	63	350
SWA0007	HSK32-250	30	250
SWA0008	HSK50-250	40	250
SWA0009	HSK63-350	63	350

Testing Bar



EZ-BAR

LASER COOLANT POINTER 雷射導水筆

Introduction & Features

- The Laser Coolant Pointer is designed for the machines where you need to adjust the coolant Spray Nozzles of the spindle.
- The main purpose is for the operator to correct the angle of coolant water and to prevent the operator from being sprayed by the coolant water. Leading by the laser coolant pointer can be adaptable for every kinds of cutting process (as Fig.1 and Fig.2).
- At the same time, it can improve the trouble of occupying too much space for the traditional adjustable coolant system hoses.

特點:

- 雷射導水筆搭配主軸噴水頭即能變更地校正冷卻水柱與刀具熱點的角度。
- 雷射導水筆的導引與主軸噴水頭的配合，適用於工具機上的各種切削加工。(如圖1、圖2)並且有助於減少使用者與切削水直接接觸。
- 同時此項產品的設計亦可有效解決傳統噴水軟管占空間的困擾。



Fig. 1. Drilling 圖1 鑽孔
Fig. 2. Face Milling 圖2 面銑

Name of each parts (Fig. 3)

1. Laser Head
2. Big O-Ring
3. Battery
4. Body
5. Small O-Ring
6. Adjust Link Stick

各部位名稱(圖3)

1. 雷射頭
2. 大O型環
3. 電池
4. 本體
5. 小O型環
6. 調整接桿

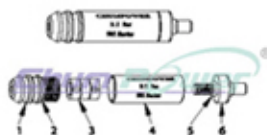


Fig. 3. Exploded drawing 圖3 分解圖

The Code No. & Spec. of the Adjust Link Stick (Fig.4)

調整接桿編號與規格，如下表及圖4所示

Code No.	Spec.			
	A	B	C	D
90100L-AA	ø6mm	5mm	-	-
90100L-BB	-	-	ø4mm	7mm
90100L-CC	-	-	ø5mm	7mm
90100L-DD	-	-	ø6mm	7mm

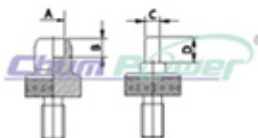


Fig. 4. Adapter Spec. 圖4 調整接桿規格

EZ-BAR

Installations & Attentions

- ※ Please confirm the following steps before installing :
- Please confirm the neck of Laser Head & Adjust Link Stick shall wear the Big O-Ring & Small O-Ring to avoid infiltrating the water.
- The negative of battery shall be headed forward the Laser Head.
- The inner of the Body shall insert the plastic cushion to avoid the results of short circuit in the negative of battery & Body.
- ※ Installation :
- After you confirmed as above, you can assemble the all parts according to Fig.3.

安裝步驟與注意事項

- 安裝前請確認.....
- 為避免滲水，請確認雷射頭與調整接桿之頸部裝有大O型環及小O型環。
- 電池負極需向前雷射頭。
- 本體內需裝入塑膠墊片，用以避免電池負極與本體造成短路。
- 安裝.....
- 確認工作完畢後，依照圖3圖示順序裝入即可。



Attentions on Usage & Maintenance

- When the Adjust Link Stick is screwed in the Body completely, the Laser Collation Bar is under the condition of "ON".
- After correcting the position of the Fountain Outlet, please screw out the Adjust Link Stick slightly. It'll avoid the unnecessary consumption for electric power.
- To check the cleanness of the lens of Laser Head as regular. If it is dirty, you can wipe it with the cotton bud.
- To check the O-Ring as regular, if it keeps the elasticity and without transfiguration to avoid infiltrating the water.
- You may not aim to your eyes by 650nm Diode Laser. Otherwise, it'll hurt your retina.

使用與保養注意事項

- 當調整接桿完全旋入本體時，雷射導水筆處於開啓的狀態。
- 噴水口角度位置調整結束後，請將調整接桿略旋出，避免電量消耗。
- 定期檢查雷射頭鏡面之清潔，調整時可使用棉花棒進行擦拭。
- 定期檢查O型環是否保持彈性及變形，以避免滲水。
- 不可將紅外線二極體雷射對準眼睛，以避免傷害到視網膜。

Annular Supplementary Spray loop

Custom-Built product

Features:

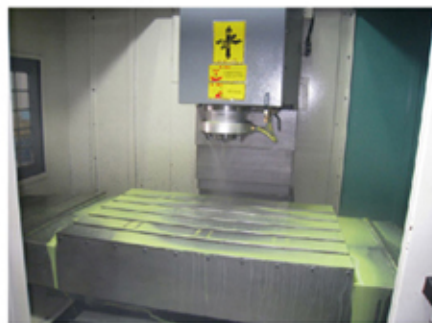
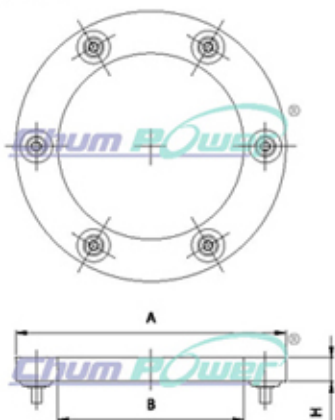
1. Enhance the traditional spray system.
2. Improve the imperfection of traditional spindle that can not be cooling completely.
3. Accuracy Guarantee.
4. Custom-Built product can fit the special machine usage.
5. One year guarantee

環噴輔助環

依客制尺寸製作

特點:

1. 加強傳統噴水系統
2. 改善傳統主軸不完全的冷卻能力
3. 精度保證
4. 依客制尺寸製作最適合主軸使用的產品
5. 一年保固



Order form:

A-B-H-The numbers of spray hole -The code no. of spray nozzle

Example: 350mm-280mm-150mm- 6 - 90132

客制格式參考:

A-B-H-環水口數量-環水口型號

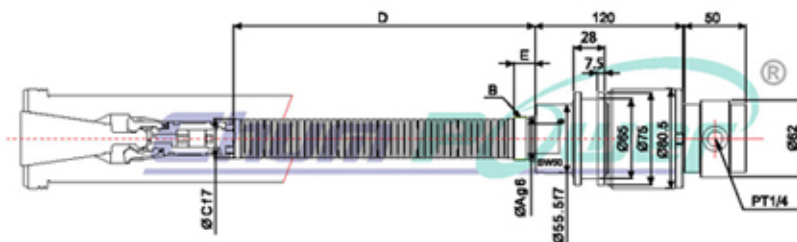
例: 350mm-280mm-150mm-6-90132

Hydraulic Drawbar(Integrated Design)

一體式油壓拉桿

APPLICATION:

- When clamped, the drawbar is locked through the wedge surface with high power transmission.
- Prevent the cutting tools from slipping.
- With stroke control
- Force-Amplification: 3 times
- 拉桿器楔形表面的設計，在夾持時具有自鎖功能，且帶來較高的驅動。
- 有防煞刀設計
- 行程調節
- 增力機構-3倍



Code NO. 型號	Type 規格	A	B	C	D	E
9200110	40#	36	M35xP1.5	32	226.5	17
9200115	50#	48	M45xP1.5	41	257	19

TYPE	9200110	9200115
spring pressure in clamping position	4000 N	7500 N
spring arrangement	1-fach / single	2-fach / double
pull force in clamping position	ca. 12000 N	ca. 25000 N
speed	12000 min ⁻¹	12000 min ⁻¹
opening force	80 bar	100 bar
opening force max	120 bar	120 bar
piston-Ø 48 - piston area	17,35 cm ²	17,35 cm ²
coolant lubrication	--	--
air	--	--
wedge stroke	16,1 mm	16,1 mm
total clamping stroke	6,2 mm	6,2 mm

Rotary Joint

冷卻水迴轉接頭

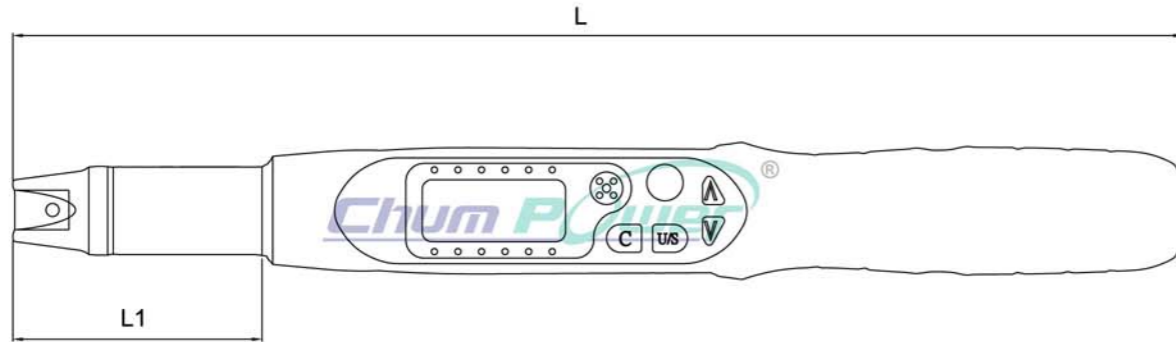


Code NO. 型號	L	L1	M
9200120	66	58	M10xp1

SPINDLE CLAMPING SYSTEM

Digital Torque Wrench

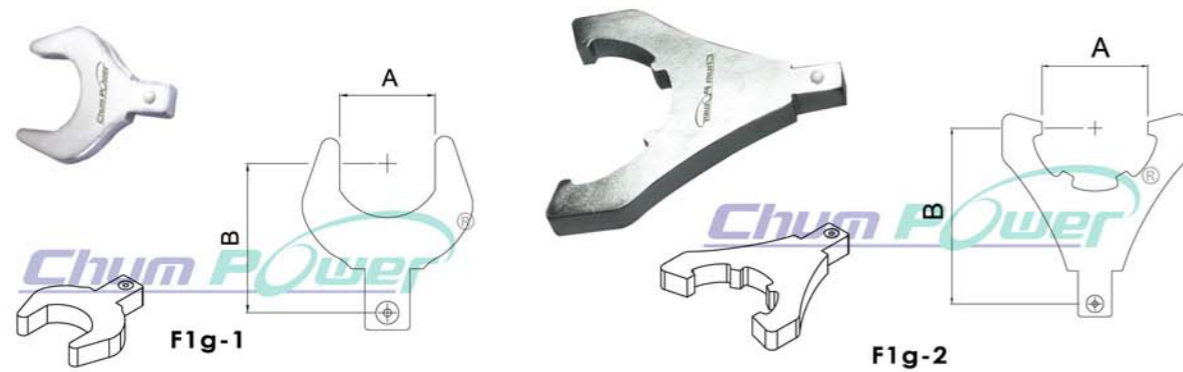
數位扭力扳手



Code NO. 型號	Square Drive (inch)	L (mm)	L1 (mm)	Max. Operation Range	Alarm Setting Range
STE0001	3/8	374	92	135 N-m/99.5 ft-lb 1195 in-lb/1378 kg-cm	6.8-135 N-m/5~99.5 ft-lb 60~1195 in-lb/69~1378 kg-cm
STE0002	1/2	374	92	135 N-m/99.5 ft-lb 1195 in-lb/1378 kg-cm	6.8-135 N-m/5~99.5 ft-lb 60~1195 in-lb/69~1378 kg-cm
STE0003	1/2	470	189	200 N-m/147.5 ft-lb 1770 in-lb/2041 kg-cm	10-200 N-m/7.4~147.5 ft-lb 88~1770 in-lb/102~2041 kg-cm
STE0004	1/2	589	308	340 N-m/250.7 ft-lb 3009 in-lb/3469 kg-cm	17-340 N-m/12.5~250.7 ft-lb 150~3009 in-lb/173~3469 kg-cm

Head

扳手接頭



Code NO. 型號	Type 規格	A	L1	FLG.
STE3001	ER16	25	40	1
STE3002	ER20	30	50	1
STE3003	ER25	37	60	2
STE3004	ER32	45	70	2
STE3005	ER40	58	83	2
STE3006	ER50	72	95	2



Tooling System

刀桿系統



BT CHU CNC DRILL CHUCK

BT 直結式鑽夾頭

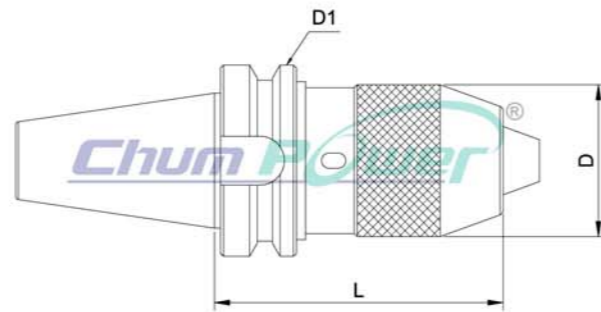
BT Shank JIS B 6339(MAS 403 BT)

APPLICATION:

- The product can be adapted for the general lathe or the drilling processing whose machines center can supply with BT spindle.
- 適用於傳統銑床或其他提供BT主軸介面之工作母機作鑽孔加工。

FEATURES:

- 3 times better clamping capacity, comparing to keyed drill chucks.
- The drill bit won't be loosen or falling off.
- Twice precision than the keyed drill chucks.
- The drill chuck is interchangeable.
- 比普通夾頭多3倍的夾持力
- 鑽頭不會鬆脫或掉落
- 比普通夾頭多出2倍精準
- 可替換式的夾頭



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
BT01505	BT30xCHU8- 75	75	37	46	12802
BT01510	BT30xCHU13- 90	90	50		12806
BT01515	BT40xCHU8- 85	85	37	63	12802
BT01525	BT40xCHU13-95	95	50		12806
BT01545	BT40xCHU16-120	120	57		12808
BT01550	BT50xCHU13- 110	110	50	100	12806
BT01564	BT50xCHU16-110	110	57		12808

*Custom-built products are available on request.

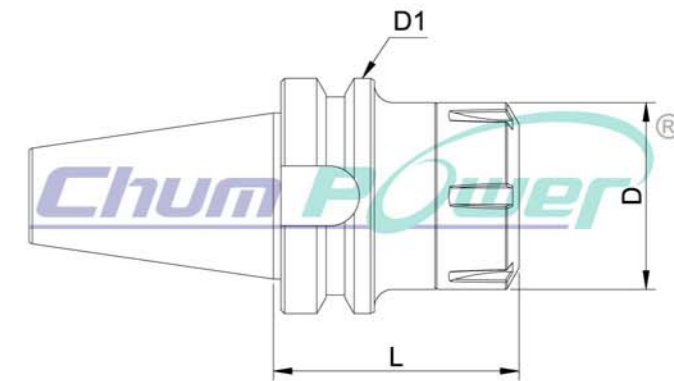
BT ER COLLET CHUCK

BT刀把 ER立銑式

BT Shank JIS B 6339(MAS 403 BT) with Collet Chuck DIN 6499

APPLICATION:

- The product can be applied for end mills, drill bits, drill reamers, taps, and can clamp any straight cutters and tools.
- 本產品可應用於銑刀, 鑽頭, 鉸刀, 絲攻及可夾持任何直柄的刀具及工具



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
BT02005	BT30xER11- 60	60	19	46	80072-01
BT02015	BT30xER16- 60	60	28		80072-02
BT02025	BT30xER16- 100	100	34		80072-03
BT02040	BT30xER20- 60	60	42		80072-04
BT02050	BT30xER20- 100	100	50		80072-05
BT02060	BT30xER25- 60	60	42	63	80072-04
BT02065	BT30xER25- 100	100	50		80072-05
BT02080	BT30xER32- 70	70	63		80072-06
BT02085	BT30xER32- 100	100	78		80072-07
BT02095	BT40xER11- 70	70	19		80072-01
BT02100	BT40xER11- 100	100	28		80072-02
BT02106	BT40xER16- 70	70	34		80072-03
BT02110	BT40xER16- 100	100	42	80072-04	
BT02131	BT40xER20- 70	70	50	80072-05	
BT02140	BT40xER20- 100	100	63	80072-06	
BT02155	BT40xER25- 70	70	78	80072-07	
BT02165	BT40xER25- 100	100	19	63	80072-01
BT02185	BT40xER32- 70	70	28		80072-02
BT02190	BT40xER32- 100	100	34		80072-03
BT02200	BT40xER40- 70	70	42		80072-04
BT02205	BT40xER40- 100	100	50		80072-05
BT02220	BT40xER50- 90	90	63		80072-06
BT02225	BT40xER50- 100	100	78		80072-07

*Custom-built products are available on request.



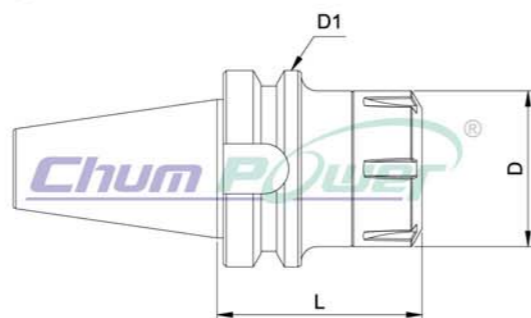
BT ER COLLET CHUCKS

BT刀把 ER立銑式

BT Shank JIS B 6339(MAS 403 BT) with Collet Chunk DIN 6499

APPLICATION:

- The product can be applied for end mills, drill bits, drill reamers, taps, and can clamp any straight cutters and tools.
- 本產品可應用於銑刀, 鑽頭, 鉸刀, 絲攻及可夾持任何直柄的刀具及工具



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
BT02230	BT50xER16- 70	70	28	100	80072-02
BT02240	BT50xER16- 100	100			
BT02265	BT50xER20- 70	70	34		80072-03
BT02280	BT50xER20- 105	105			
BT02310	BT50xER25- 70	70	42		80072-04
BT02320	BT50xER25- 105	105			
BT02350	BT50xER32- 80	80	50		80072-05
BT02355	BT50xER32- 100	100			
BT02380	BT50xER40- 80	80	63		80072-06
BT02410	BT50xER50- 100	100			
BT02415	BT50xER50- 120	120	78	80072-07	

*Custom-built products are available on request.



BT MILLING CHUCKS

BT 強力式立銑刀把

BT Shank JIS B 6339(MAS 403 BT)

FEATURES:

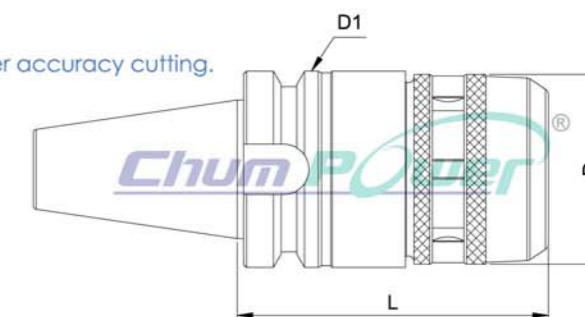
- It is designed with inner rolling needles inside. This design can reduce the friction resistance when tightening and the wear of parts.
- The design of dustproof can prevent iron scrap dropping and extend longevity of chuck.
- The high clamping force is available. The product can prevent the cutting tools from slipping when the users worked it and increase the longevity of cutting tools.
- High rigidity
- High precision

特性

- 內部滾針設計, 可減少鎖緊時之摩擦阻力及零件磨耗。
- 防塵設計減少鐵屑掉入以延長使用壽命。
- 高夾持力, 防止刀具於加工時滑脫, 增加刀具壽命
- 高剛性
- 高精度

APPLICATION:

- The Milling chuck can be applied for heavy-duty & higher accuracy cutting.
- 此強力銑刀把適用重型及高精密切削



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
BT03005	BT30xC20- 80	80	52	46	80200-05
BT03015	BT30xC25- 85	85	60		80200-10
BT03020	BT40xC20- 85	85	52	63	80200-05
BT03025	BT40xC20- 100	100			
BT03035	BT40xC20- 135	135	60		80200-10
BT03040	BT40xC25- 90	90	69	100	80200-15
BT03055	BT40xC25- 135	135			
BT03065	BT40xC32- 105	105	60		80200-10
BT03070	BT50xC20- 105	105	52	100	80200-05
BT03075	BT50xC20- 150	150			
BT03080	BT50xC25- 100	100	60		80200-10
BT03085	BT50xC25- 150	150	69	100	80200-15
BT03095	BT50xC32- 110	110			
BT03100	BT50xC32- 135	135	86		80200-20
BT03125	BT50xC42- 110	110	135	100	80200-20
BT03130	BT50xC42- 135	135			

*Custom-built products are available on request.



BT SIDE LOCK END MILL HOLDER

BT 側固式立銑刀把

BT Shank JIS B 6339(MAS 403 BT) with Side Lock End Mill 1835B

APPLICATION:

- It can be applied for heavy cutting and milling process generally. □ 適用於重切削及一般銑削加工
- The cutting tools can be clamped precisely. Even it's worked in heavy cutting, it will not result in slipping on cutting tools. □ 刀具夾持確實，即使重切削亦不致造成刀具滑動

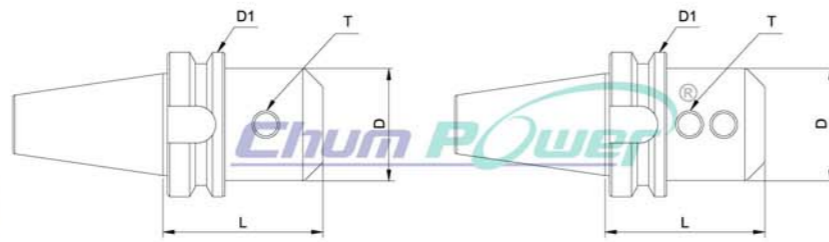


FIG.1

FIG.2

Code NO. 型號	TYPE 規格	L	D	D1	T	FIG. 圖
BT04005	BT30xSLN6- 60	60	25	46	M6	1
BT04010	BT30xSLN8- 60	60	28	46	M8	1
BT04015	BT30xSLN10- 60	60	35	46	M10	1
BT04020	BT30xSLN12- 60	60	42	46	M12	1
BT04025	BT30xSLN16- 75	75	48	46	M14	1
BT04030	BT30xSLN20- 75	75	52	46	M16	1
BT04040	BT30xSLN25- 90	90	65	46	M18	2
BT04050	BT40xSLN6- 75	75	25	63	M6	1
BT04070	BT40xSLN8- 75	75	28	63	M8	1
BT04085	BT40xSLN10- 63	63	35	63	M10	1
BT04105	BT40xSLN12- 63	63	42	63	M12	1
BT04125	BT40xSLN14- 75	75	44	63	M12	1
BT04135	BT40xSLN16- 63	63	48	63	M14	1
BT04155	BT40xSLN18- 63	63	50	63	M14	1
BT04190	BT40xSLN25- 90	90	65	63	M18	2
BT04200	BT40xSLN32- 100	100	72	63	M20	2
BT04205	BT40xSLN40- 105	105	90	63	M20	2
BT04210	BT40xSLN42- 105	105	90	63	M20	2

*Custom-built products are available on request.

BT SIDE LOCK END MILL HOLDER

BT 側固式立銑刀把

BT Shank JIS B 6339(MAS 403 BT) with Side Lock End Mill 1835B

APPLICATION:

- It can be applied for heavy cutting and milling process generally. □ 適用於重切削及一般銑削加工
- The cutting tools can be clamped precisely. Even it's worked in heavy cutting, it will not result in slipping on cutting tools. □ 刀具夾持確實，即使重切削亦不致造成刀具滑動

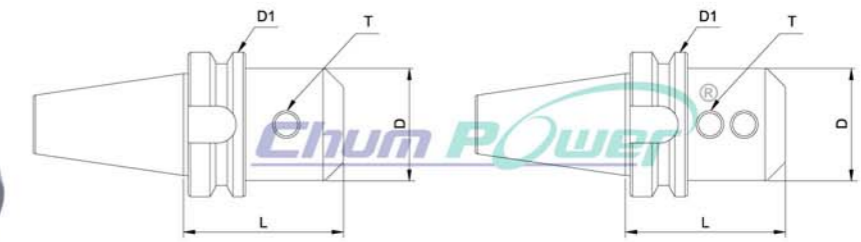


FIG.1

FIG.2

Code NO. 型號	TYPE 規格	L	D	D1	T	FIG. 圖
BT04215	BT50xSLN6- 63	63	25	100	M6	1
BT04225	BT50xSLN8- 63	63	28	100	M8	1
BT04235	BT50xSLN10- 65	65	35	100	M10	1
BT04245	BT50xSLN12- 80	80	42	100	M12	1
BT04255	BT50xSLN14- 105	105	44	100	M12	1
BT04260	BT50xSLN16- 80	80	48	100	M14	1
BT04270	BT50xSLN18- 105	105	50	100	M14	1
BT04275	BT50xSLN20- 80	80	52	100	M16	1
BT04295	BT50xSLN25- 100	100	65	100	M18	2
BT04320	BT50xSLN32- 105	105	72	100	M20	2
BT04340	BT50xSLN40- 105	105	90	100	M20	2
BT04350	BT50xSLN42- 105	105	90	100	M20	2
BT04375	BT50xSLN50- 120	120	100	100	M24	2
BT04380	BT50xSLN63- 135	135	125	100	M24	2
BT04385	BT50xSLN50.8- 105	105	95	100	M24	2

*Custom-built products are available on request.

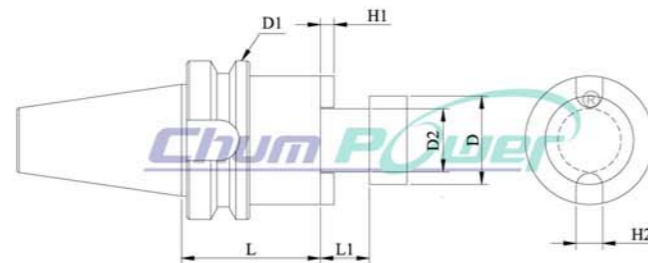
BT FACE MILL HOLDER

BT 面銑式立銑刀把

BT Shank JIS B 6339(MAS 403 BT) with Face Mill DIN 6357

APPLICATION:

- The product can be applied for Face milling.
- 本產品適用於平面銑削加工



Code NO. 型號	TYPE 規格	L	L1	D	D1	D2	H1	H2
BT06010	BT30xFMA25.4- 60	45	20	35	46	25.4	4.52	9.52
BT06015	BT30xFMA31.75- 45	45	22	41	46	31.75	6.7	12.7
BT06020	BT40xFMA25.4- 45	45	20	35	63	25.4	4.52	9.52
BT06040	BT40xFMA31.75- 45	45	22	41	63	31.75	6.7	12.7
BT06055	BT40xFMA38.10- 90	90	25	44.5	63	38.10	8.87	15.87
BT06065	BT50xFMA25.4- 45	45	20	35	100	25.4	4.52	9.52
BT06090	BT50xFMA31.75- 105	105	22	41	100	31.75	6.7	12.7
BT06095	BT50xFMA38.10- 45	45	25	44.5	100	38.10	8.87	15.87
BT06105	BT50xFMA50.80- 45	45	36	68	100	50.80	9.75	19.05
BT06115	BT50xFMA47.62- 75	75	32	-	100	47.62	12.5	25.4

*Custom-built products are available on request.

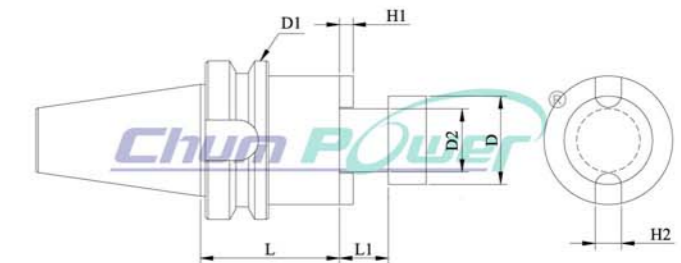
BT FACE MILL HOLDER

BT 面銑式立銑刀把

BT Shank JIS B 6339(MAS 403 BT) with Face Mill DIN 6357

APPLICATION:

- The product can be applied for Face milling.
- 本產品適用於平面銑削加工



Code NO. 型號	TYPE 規格	L	L1	D	D1	D2	H1	H2
BT06120	BT30xFMB22- 45	45	18	26	46	22	4.8	10
BT06135	BT30xFMB27- 60	60	20	31.5	46	27	5.8	12
BT06142	BT30xFMB32- 60	60	22	41	46	32	6.8	14
BT06145	BT40xFMB22- 45	45	18	26	63	22	4.8	10
BT06160	BT40xFMB27- 45	45	20	31.5	63	27	5.8	12
BT06185	BT40xFMB32- 60	60	22	41	63	32	6.8	14
BT06190	BT40xFMB40- 60	60	25	48	63	40	8.3	16
BT06197	BT50xFMB22- 60	60	18	26	100	22	4.8	10
BT06220	BT50xFMB27- 60	60	20	31.5	100	27	5.8	12
BT06245	BT50xFMB32- 60	60	22	41	100	32	6.8	14
BT06255	BT50xFMB40- 60	60	25	48	100	40	8.3	16
BT06270	BT50xFS40F- 75	75	26	-	100	40	8.3	16
BT06275	BT50xFS60F- 75	75	25	-	100	60	12.5	25.4

*Custom-built products are available on request.



BT SLIM-FIT COLLET CHUCKS

BT 後拉式立銑刀把

BT Shank: JIS B 6339(MAS 403 BT)

APPLICATION:

■ Slim-Fit collet chuck is clamped by Slim-Fit collet, it is applied for high-speed and high precision machining.

□ 後拉式刀把採用後拉式筒夾夾持，適用於高速精密之加工。



Slim Fit Collet
後拉筒夾 (page E-46)

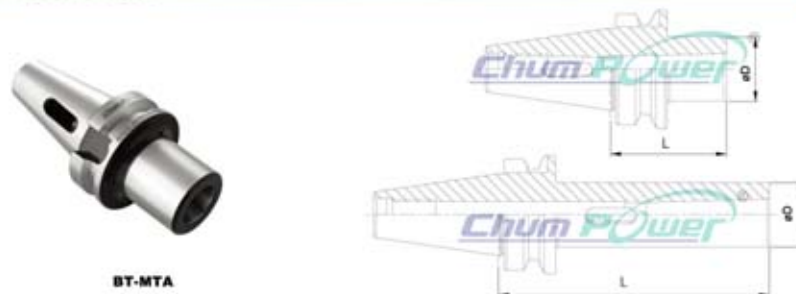
Code NO. 型號	TYPE 規格	L	D	D1	D2	FIG. 圖
BT05005	BT30xSBL6-70	70	46	23	30	1
BT05015	BT30xSBL12-70	70	46	-	34	2
BT05025	BT30xSBL20-85	85	46	-	42	2
BT05035	BT40xSBL6-70	70	63	23	30	1
BT05045	BT40xSBL12-70	70	63	-	34	2
BT05055	BT40xSBL20-75	75	63	-	48	2
BT05060	BT50xSBL6-70	70	100	23	28	1
BT05070	BT50xSBL12-70	70	100	-	34	2
BT05080	BT50xSBL20-70	70	100	-	48	2

*Custom-built products are available on request.



BT MORSE TAPER HOLDER

BT 莫式錐度刀把



BT-MTA

Code NO. 型號	TYPE 規格	L	OD
BT10030	BT40-MTA1-45	45	25
BT10040	BT40-MTA2-50	50	32
BT10050	BT40-MTA3-70	70	40
BT10060	BT40-MTA4-95	95	50
BT10070	BT50-MTA1-45	45	25
BT10085	BT50-MTA2-60	60	32
BT10105	BT50-MTA3-65	65	40
BT10120	BT50-MTA4-95	95	50

BT MORSE TAPER HOLDER

BT 莫式錐度刀把



BT-MTB

Code NO. 型號	TYPE 規格	L	OD
BT10510	BT30-MTB1-45	45	25
BT10520	BT30-MTB2-60	60	32
BT10530	BT40-MTB1-45	45	25
BT10540	BT40-MTB2-45	45	32
BT10550	BT40-MTB3-70	70	40
BT10560	BT40-MTB4-90	90	48
BT10570	BT50-MTB1-45	45	25
BT10580	BT50-MTB2-45	45	32
BT10590	BT50-MTB3-60	60	40
BT10600	BT50-MTB4-75	75	50
BT10610	BT50-MTB5-120	120	70

SK CHUCK For High-Speed Machining

SK 高速刀桿 - 高速加工專用

APPLICATION:

- To prevent vibration and reduces noise by SK Nut (Notch-Free) □ 藉由SK螺母(無溝槽), 可避免加工時的晃動及降低噪音
- High Rigidity □ 高剛性
- High Accuracy □ 高精度
- High Clamping Force □ 高夾持力



Code NO. 型號	TYPE 規格	ØD	L	ØC	L1		Collet
					Min	Max	
BT41005	BT30xSK6-60	0.7~6.0	60	19.5	21	35	SKC6
BT41015	BT30xSK10-60	1.75~10.0	60	27.5	30	50	SKC10
BT41025	BT30xSK16-60	2.75~16.0	60	40	40	60	SKC16
BT41035	BT30xSK20-60	4.0~20.0	60	48.5	50	70	SKC20
BT41040	BT30xSK25-90	16.0~25.4	90	55	55	75	SKC25
BT41045	BT40xSK6-60	0.7~6.0	60	19.5	21	35	SKC6
BT41060	BT40xSK10-60	1.75~10.0	60	27.5	30	50	SKC10
BT41080	BT40xSK16-60	2.75~16.0	60	40	50	65	SKC16
BT41100	BT40xSK20-60	4.0~20.0	60	48.5	47	60	SKC20
BT41120	BT40xSK25-90	16.0~25.4	90	55	55	75	SKC25
BT41130	BT50xSK6-100	0.7~6.0	100	19.5	21	35	SKC6
BT41140	BT50xSK10-100	1.75~10.0	100	27.5	30	50	SKC10
BT41150	BT50xSK16-100	2.75~16.0	100	40	40	70	SKC16
BT41165	BT50xSK20-100	4.0~20.0	100	48.5	47	80	SKC20
BT41180	BT50xSK25-100	16.0~25.4	100	55	50	85	SKC25

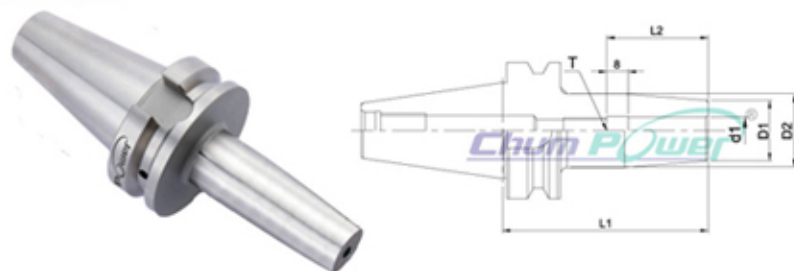
*Custom-built products are available on request. (BT, HSK, SK, NT, CAT type) *特製品可依客戶需求訂製

Heat Shrink Tool-Holder For High-Speed Machining

熱縮結刀桿 - 高速加工專用

APPLICATION:

- High accuracy < 0.005 mm □ 高精度 < 0.005mm內
- High Clamping Force □ 高夾持力
- Small Tolerance □ 公差影響較小
- G2.5 20,000 R.P.M. □ 動平衡 G2.5 20,000 R.P.M.



Code NO. 型號	TYPE 規格	d1	L1	D1	D2	L2	T
BT14150	BT40xSFC8-100	8	100	21	26	36	M6x1P
BT14160	BT40xSFC10-100	10	100	24	29	42	M8x1.25P
BT14170	BT40xSFC12-100	12	100	24	29	47	M10x1.5P
BT14180	BT40xSFC14-100	14	100	27	32	47	M10x1.5P
BT14190	BT40xSFC16-100	16	100	27	32	50	M12x1.75P
BT14200	BT40xSFC18-100	18	100	33	38	50	M12x1.75P
BT14210	BT40xSFC20-100	20	100	33	38	52	M16x2P
BT14510	BT40xSFC3/16"-3.5"	3/16"	3.5"	0.63"	0.87"	0.79"	—
BT14520	BT40xSFC1/4"-3.5"	1/4"	3.5"	0.71"	1.06"	1.42"	M5x0.8P
BT14530	BT40xSFC3/8"-3.75"	3/8"	3.75"	0.94"	1.26"	1.53"	M8x1.25P
BT14540	BT40xSFC1/2"-3.75"	1/2"	3.75"	1.10"	1.34"	1.85"	M12x1.75P
BT14550	BT40xSFC3/4"-4"	3/4"	4"	1.26"	1.34"	1.97"	M16x2P
BT14560	BT40xSFC1"-4"	1	4"	1.42"	1.65"	2.04"	M20x2.5P
BT38123	BT40xSFC4-100	4	100	10	17	20	—
BT38140	BT40xSFC6-100	6	100	12	19	34	M5x0.8P

*Custom-built products are available on request. (BT, HSK, SK, NT, CAT type) *特製品可依客戶需求訂製

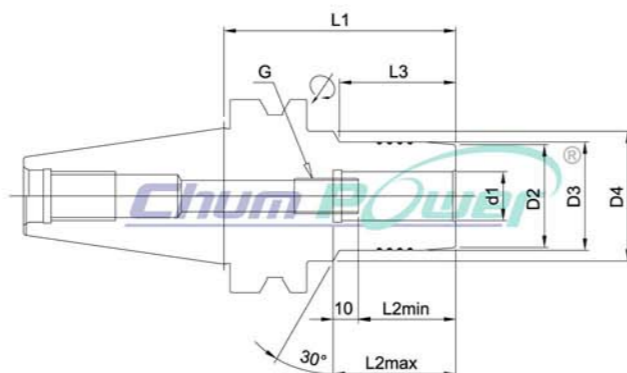
Hydraulic Tool-Holder

油壓刀桿

APPLICATION:

- Reliable for clamping reiteration
- High Rigidity
- High Accuracy; No Collet used
- High Clamping Force
- Our hydraulic chuck can obtain the run-out within 3 μ m (T.I.R.) at the position 2.5*d1 from the nose.

- 重複夾持可靠
- 高剛性
- 高精度, 因不需使用筒夾
- 高夾持力
- 在使用2.5倍長時, 精度為0.003mm



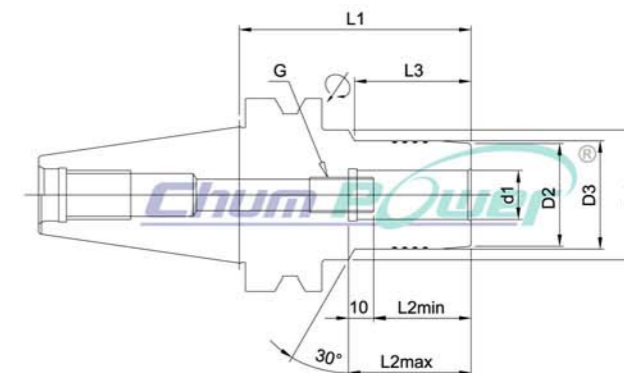
Hydraulic Tool-Holder

油壓刀桿

APPLICATION:

- Reliable for clamping reiteration
- High Rigidity
- High Accuracy; No Collet used
- High Clamping Force
- Our hydraulic chuck can obtain the run-out within 3 μ m (T.I.R.) at the position 2.5*d1 from the nose.

- 重複夾持可靠
- 高剛性
- 高精度, 因不需使用筒夾
- 高夾持力
- 在使用2.5倍長時, 精度為0.003mm



Code NO. 型號	Type 規格	d1	D2	D3	D4	L1	L2		L3	G	
							Min	Max			
BT36050	BT40xCHY6-65	6	26	29	49.5	65	27.5	37.5	23	M5	
BT36065	BT40xCHY8-65	8	27	30		65	27.5	37.5	23	M6	
BT36080	BT40xCHY10-65	10	29	32		65	32.5	42.5	23	M8x1	
BT36095	BT40xCHY12-65	12	31	34		65	37.5	47.5	23	M8x1	
BT36110	BT40xCHY14-65	14	33	36		65	37.5	47.5	23	M10x1	
BT36125	BT40xCHY16-65	16	36	40		65	42.5	52.5	23	M10x1	
BT36140	BT40xCHY18-65	18	38	42		65	42.5	52.5	23	M10x1	
BT36155	BT40xCHY20-65	20	40	44		65	42.5	52.5	23	M10x1	
BT36175	BT40xCHY25-100	25	55	60		-	100	51	61	-	M16x1
BT36185	BT40xCHY32-105	32	58	63		-	105	55	61	-	M16x1

*Custom-built products are available on request. (BT, HSK, SK, NT, CAT Type) *特製品可依客戶需求訂製

Code NO. 型號	Type 規格	d1	D2	D3	D4	L1	L2		V	L3	G	
							Min	Max				
BT36195	BT50xCHY6- 90	6	26	29	49.5	90	37.5	27.5	10	30	M5	
BT36210	BT50xCHY8- 90	8	27	30		90	37.5	27.5	10	30	M6	
BT36225	BT50xCHY10- 90	10	29	32		90	42.5	32.5	10	30	M8x1	
BT36240	BT50xCHY12- 90	12	31	34		90	47.5	37.5	10	30	M8x1	
BT36255	BT50xCHY14- 90	14	33	36		90	47.5	37.5	10	30	M10x1	
BT36270	BT50xCHY16- 90	16	36	40	63	90	52.5	42.5	10	30	M10x1	
BT36285	BT50xCHY18- 90	18	38	42		90	52.5	42.5	10	30	M10x1	
BT36300	BT50xCHY20- 90	20	40	44		90	52.5	42.5	10	30	M10x1	
BT36315	BT50xCHY25-105	25	55	60		-	105	61	51	10	67	M16x1
BT36325	BT50xCHY32- 90	32	58	63		-	90	65	55	10	52	M16x1

*Custom-built products are available on request. (BT, HSK, SK, NT, CAT Type) *特製品可依客戶需求訂製

CAT CHU CNC DRILL CHUCK

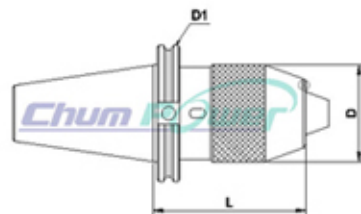
CAT 直結式鑽夾頭

CAT Shank ANSI B5.50

FEATURES:

- ☑ 3 times better clamping capacity, comparing to keyed drill chucks.
- ☑ The drill bit won't be loosen or falling off.
- ☑ Twice precision than the keyed drill chucks.
- ☑ The drill chuck is interchangeable.

- ☐ 比普通夾頭多3倍的夾持力
- ☐ 鑽頭不會鬆脫或掉落
- ☐ 比普通夾頭多出2倍精準
- ☐ 可替換式的夾頭



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
CT01510	CAT30xCHU 8-3.347	3.347	1.456	1.812	12802
CT01520	CAT40xCHU 8-3.228	3.228	1.456	2.5	12802
CT01532	CAT40xCHU13-4.527	4.527	1.968	2.5	12806
CT01540	CAT40xCHU16-4.724	4.724	2.244	2.5	12808
CT01550	CAT50xCHU13-3.54	3.54	1.968	3.875	12806
CT01560	CAT50xCHU16-3.7	3.7	2.244	3.875	12808

*Custom-built products are available on request.

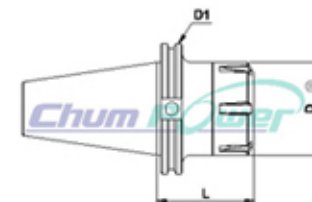
CAT ER COLLET CHUCK

CAT刀把 ER立銼式

CAT Shank ANSI B5.50 with Collet Chuck DIN 6499

APPLICATION:

- ☑ The product can be applied for end mills, drill bits reamers, taps, and can clamp any straight cutters and tools.
- ☑ 本產品可應用於銼刀, 鑽頭, 銼刀, 絲攻及可夾持任何直柄的刀具及工具



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
CT02005	CAT40xER16- 2.76	2.76	1.102	2.5	80072-02
CT02025	CAT40xER20- 2.76	2.76	1.339	2.5	80072-03
CT02040	CAT40xER25- 2.76	2.76	1.645	2.5	80072-04
CT02060	CAT40xER32- 2.76	2.76	1.969	2.5	80072-05
CT02080	CAT40xER40- 3.15	3.15	2.48	2.5	80072-06
CT02095	CAT40xER50- 4	4	3.07	2.5	80072-07
CT02100	CAT50xER16- 4	4	1.102	3.875	80072-02
CT02125	CAT50xER20- 4	4	1.339	3.875	80072-03
CT02140	CAT50xER25- 4	4	1.645	3.875	80072-04
CT02155	CAT50xER32- 4	4	1.969	3.875	80072-05
CT02170	CAT50xER40- 4	4	2.48	3.875	80072-06
CT02185	CAT50xER50- 4	4	3.07	3.875	80072-07

*Custom-built products are available on request.



CAT MILLING CHUCK

CAT 強力式立銑刀把

CAT Shank ANSI B5.50

FEATURES:

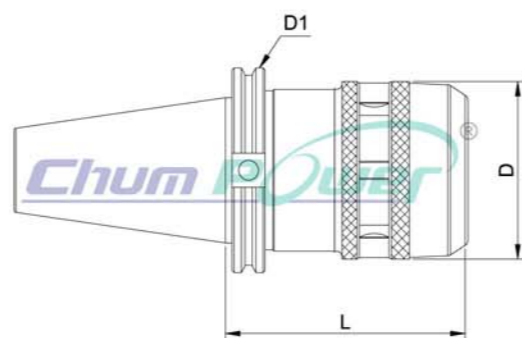
- It is designed with inner rolling needles inside. This design can reduce the friction resistance when tightening and the wear of parts.
- The design of dustproof can prevent iron scrap dropping and extend longevity of chuck.
- The high clamping force is available. The product can prevent the cutting tools from slipping when the users worked it and increase the longevity of cutting tools.
- High rigidity
- High precision

特性

- 內部滾針設計，可減少鎖緊時之摩擦阻力及零件磨耗。
- 防塵設計減少鐵屑掉入以延長使用壽命。
- 高夾持力，防止刀具於加工時滑脫，增加刀具壽命
- 高剛性
- 高精密

APPLICATION:

- The Milling chuck can be applied for heavy-duty & higher accuracy cutting.
- 此強力銑刀把適用重型及高精密切削



INCH SIZE 英制

Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
CT03010	CAT40xC3/4- 3.385	3.385	2.047	2.5	80200-05
CT03020	CAT40xC1-1/4- 4.53	4.53	2.716	2.5	80200-15
CT03025	CAT50xC3/4- 4.13	4.13	2.047	3.875	80200-05
CT03030	CAT50xC1-1/4- 4.13	4.13	2.716	3.875	80200-15

*Custom-built products are available on request.



CAT SIDE LOCK END MILL HOLDER

CAT 側固式立銑刀把

CAT Shank ANSI B5.50 with Side Lock End Mill DIN 1835B

APPLICATION:

- It can be applied for heavy cutting and milling process generally. 適用於重切削及一般銑削加工
- The cutting tools can be clamped precisely. Even it's worked in heavy cutting, it will not result in slipping on cutting tools. 刀具夾持確實，即使重切削亦不致造成刀具滑動

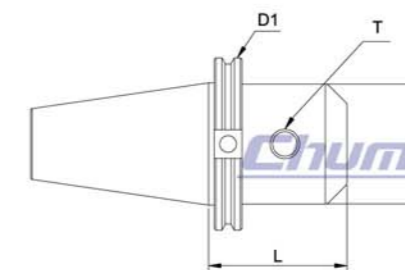


FIG. 1

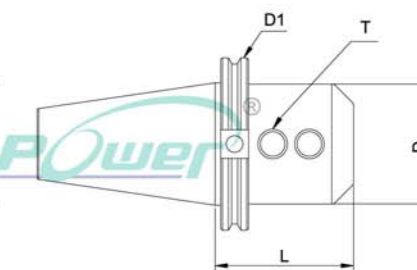


FIG. 2

INCH SIZE 英制

Code NO. 型號	TYPE 規格	L	D	D1	T	FIG. 圖
CT04010	CAT40xSLN1/8- 2.375	2.375	0.69	2.5	6#-32	1
CT04015	CAT40xSLN3/16- 2.5	2.5	0.69	2.5	8#-32	1
CT04020	CAT40xSLN1/4- 3	3	0.78	2.5	1/4-28	1
CT04025	CAT40xSLN5/16- 3	3	0.88	2.5	5/16-24	1
CT04030	CAT40xSLN3/8- 3	3	1	2.5	3/8-24	1
CT04035	CAT40xSLN1/2- 3	3	1.25	2.5	7/16-20	1
CT04040	CAT40xSLN5/8- 3	3	1.5	2.5	1/2-20	2
CT04045	CAT40xSLN3/4- 3	3	1.75	2.5	5/8-18	2
CT04050	CAT40xSLN7/8- 3.5	3.5	1.88	2.5	5/8-18	2
CT04055	CAT40xSLN1- 4	4	2	2.5	3/4-16	2
CT04060	CAT40xSLN1-1/4- 4.6	4.6	2.5	2.5	3/4-16	2
CT04065	CAT40xSLN1-1/2- 4.5	4.5	2.5	2.5	3/4-16	2

CT04070	CAT50xSLN1/4- 4	4	0.78	3.875	1/4-28	1
CT04075	CAT50xSLN5/16- 4	4	0.88	3.875	5/16-24	1
CT04080	CAT50xSLN3/8- 4	4	1	3.875	3/8-24	1
CT04085	CAT50xSLN1/2- 4	4	1.25	3.875	7/16-20	1
CT04090	CAT50xSLN5/8- 4	4	1.5	3.875	1/2-20	1
CT04095	CAT50xSLN3/4- 4	4	1.75	3.875	5/8-18	1
CT04100	CAT50xSLN7/8- 4	4	1.88	3.875	5/8-18	2
CT04105	CAT50xSLN1- 4	4	2	3.875	3/4-16	2
CT04110	CAT50xSLN1-1/4- 4	4	2.5	3.875	3/4-16	2
CT04115	CAT50xSLN1-1/2- 4.6	4.6	2.5	3.875	3/4-16	2

*Custom-built products are available on request.

CAT FACE MILL HOLDER

CAT 面銑式立銑刀把

CAT Shank ANSI B5.50 with Face Mill DIN 6357

APPLICATION:

■ The product can be applied for Face milling.

□ 本產品適用於平面銑削加工



INCH SIZE 英制

Code NO. 型號	TYPE 規格	L	L1	D	D1	D2	H1	H2
CT06010	CAT40xFMA3/4-1.37	1.37	0.687	-	2.5	3/4	0.188	0.3125
CT06030	CAT40xFMA1-2.06	2.06	0.687	1.38	2.5	1	0.188	0.375
CT06045	CAT40xFMA1-1/4-2.21	2.21	0.687	1.61	2.5	1-1/4	0.25	0.5
CT06060	CAT40xFMA1-1/2-2.21	2.21	0.938	1.75	2.5	1-1/2	0.349	0.625
CT06070	CAT50xFMA3/4-1.5	1.5	0.687	-	3.875	3/4	0.188	0.3125
CT06085	CAT50xFMA1-2	2	0.687	1.38	3.875	1	0.188	0.375
CT06100	CAT50xFMA1-1/4-1.5	1.5	0.687	1.61	3.875	1-1/4	0.25	0.5
CT06120	CAT50xFMA1-1/2-2.4	2.4	0.938	1.75	3.875	1-1/2	0.349	0.625
CT06135	CAT50xFMA2-2.4	2.4	0.938	2.68	3.875	2	0.384	0.75

*Custom-built products are available on request.

CAT SLIM-FIT COLLET CHUCK

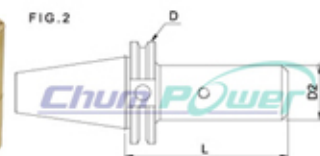
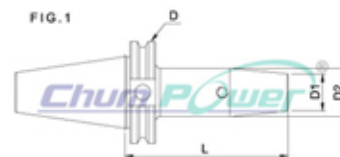
CAT 後拉式立銑刀把

CAT Shank ANSI B5.50

APPLICATION:

■ Slim-Fit collet chuck is clamped by Slim-Fit collet, it is applied for high-speed and high precision machining.

□ 後拉式刀把採用後拉式筒夾夾持，適用於高速精密之加工



Slim Fit Collet
後拉筒夾 (page E-46)

INCH SIZE 英制

Code NO. 型號	TYPE 規格	L	D	D1	D2	FIG. 圖
CT05015	CAT40xSBL6-3	3	2.5	0.91	1.18	1
CT05030	CAT40xSBL12-3	3	2.5	-	1.34	2
CT05045	CAT40xSBL20-3.15	3.15	2.5	-	1.58	2
CT05060	CAT50xSBL6-3.5	3.5	3.875	1.14	1.42	1
CT05075	CAT50xSBL12-3	3	3.875	-	1.34	2
CT05090	CAT50xSBL20-3.15	3.15	3.875	-	1.81	2

*Custom-built products are available on request.



SK CHU CNC DRILL CHUCK

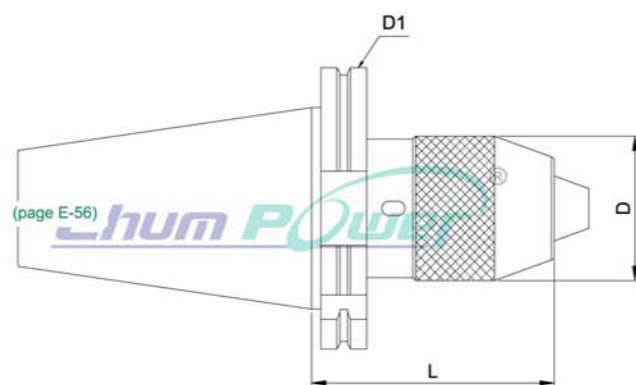
SK 直結式鑽夾頭

SK Shank DIN 69871-A

FEATURES:

- 3 times better clamping capacity, comparing to keyed drill chucks.
- The drill bit won't be loosen or falling off.
- Twice precision than the keyed drill chucks.
- The drill chuck is interchangeable.

- 比普通夾頭多3倍的夾持力
- 鑽頭不會鬆脫或掉落
- 比普通夾頭多出2倍精準
- 可替換式的夾頭



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
SK01510	SK30xCHU8-80	80	37	50	12802
SK01520	SK30xCHU13-100	100	50		12806
SK01530	SK30xCHU16-125	125	57		12808
SK01540	SK40xCHU8-75	75	37	63.55	12802
SK01550	SK40xCHU13-100	100	50		12806
SK01560	SK40xCHU16-115	115	57		12808
SK01570	SK50xCHU13-100	100	50	97.5	12806
SK01580	SK50xCHU16-105	105	57		12808

*Custom-built products are available on request.

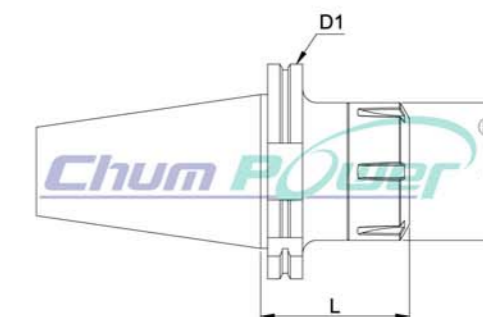
SK ER COLLET CHUCK DIN 6499

SK 刀把 ER立銑式

SK Shank DIN 69871-A with Collet Chuck DIN 6499

APPLICATION:

- The product can be applied for end mills, drill bits reamers, taps, and can clamp any straight cutters and tools.
- 本產品可應用於銑刀,鑽頭,絞刀,絲攻及可夾持任何直柄的刀具及工具



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
SK02005	SK30xER11-80	80	19	50	80072-01
SK02010	SK30xER16-60	60	28		80072-02
SK02020	SK30xER20-60	60	34		80072-03
SK02030	SK30xER25-60	60	42		80072-04
SK02035	SK30xER32-60	60	50		80072-05
SK02040	SK40xER11-80	80	19	63.55	80072-01
SK02050	SK40xER16-70	70	28		80072-02
SK02075	SK40xER20-70	70	34		80072-03
SK02095	SK40xER25-70	70	42		80072-04
SK02120	SK40xER32-60	60	50		80072-05
SK02140	SK40xER40-80	80	63		80072-06
SK02155	SK40xER50-100	100	78	80072-07	
SK02160	SK50xER16-100	100	28	97.5	80072-02
SK02180	SK50xER20-100	100	34		80072-03
SK02195	SK50xER25-70	70	42		80072-04
SK02215	SK50xER32-70	70	50		80072-05
SK02235	SK50xER40-70	70	63		80072-06
SK02255	SK50xER50-80	80	78		80072-07

*Custom-built products are available on request.



SK MILLING CHUCK

SK 強力式立銑刀把

SK Shank DIN 69871-A

FEATURES:

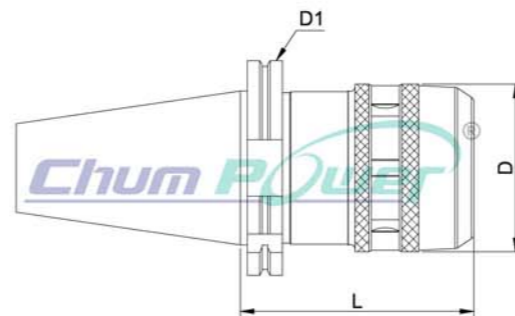
- It is designed with inner rolling needles inside. This design can reduce the friction resistance when tightening and the wear of parts.
- The design of dustproof can prevent iron scrap dropping and extend longevity of chuck.
- The high clamping force is available. The product can prevent the cutting tools from slipping when the users worked it and increase the longevity of cutting tools.
- High rigidity
- High precision

特性

- 內部滾針設計，可減少鎖緊時之摩擦阻力及零件磨耗。
- 防塵設計減少鐵屑掉入以延長使用壽命。
- 高夾持力，防止刀具於加工時滑脫，增加刀具壽命
- 高剛性
- 高精密

APPLICATION:

- The Milling chuck can be applied for heavy-duty & higher accuracy cutting.
- 此強力銑刀把適用重型及高精密切削



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
SK03005	SK30xC20- 85	85	52	50	80200-05
SK03015	SK40xC20- 85	85	52	63.55	80200-05
SK03030	SK40xC32- 105	105	69		80200-15
SK03040	SK50xC20- 105	105	52	97.5	80200-05
SK03050	SK50xC32- 110	110	69		80200-15
SK03060	SK50xC42- 110	110	86		80200-20

*Custom-built products are available on request.



SK SIDE LOCK END MILL HOLDER

SK 側固式立銑刀把

SK Shank DIN 69871-A with Side Lock End Mill DIN 1835B

APPLICATION:

- It can be applied for heavy cutting and milling process generally. 適用於重切削及一般銑削加工
- The cutting tools can be clamped precisely. Even it's worked in heavy cutting, it will not result in slipping on cutting tools. 刀具夾持確實，即使重切削亦不致造成刀具滑動

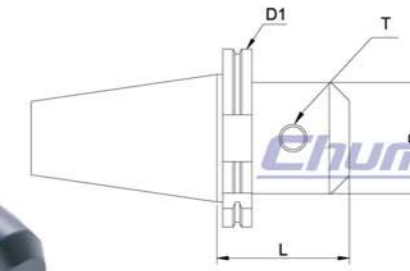


FIG.1

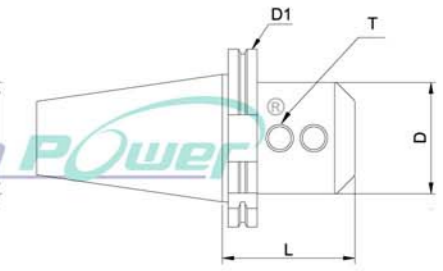


FIG.2

Code NO. 型號	TYPE 規格	L	D	D1	T	FIG. 圖
SK04005	SK30xSLN6- 50	50	25	50	M6	1
SK04010	SK30xSLN8- 50	50	28	50	M8	1
SK04015	SK30xSLN10- 50	50	35	50	M10	1
SK04020	SK30xSLN12- 50	50	42	50	M12	1
SK04025	SK30xSLN16- 63	63	48	50	M14	1
SK04030	SK40xSLN6- 50	50	25	63.55	M6	1
SK04035	SK40xSLN8- 50	50	28	63.55	M8	1
SK04040	SK40xSLN10- 50	50	35	63.55	M10	1
SK04045	SK40xSLN12- 50	50	42	63.55	M12	1
SK04050	SK40xSLN16- 63	63	48	63.55	M14	1
SK04055	SK40xSLN20- 63	63	52	63.55	M16	1
SK04060	SK40xSLN25- 100	100	65	63.55	M18	2
SK04065	SK40xSLN32- 100	100	72	63.55	M20	2
SK04070	SK50xSLN6- 63	63	25	97.5	M6	1
SK04075	SK50xSLN8- 63	63	28	97.5	M8	1
SK04080	SK50xSLN10- 63	63	35	97.5	M10	1
SK04085	SK50xSLN12- 63	63	42	97.5	M12	1
SK04090	SK50xSLN16- 63	63	48	97.5	M14	1
SK04095	SK50xSLN20- 63	63	52	97.5	M16	1
SK04100	SK50xSLN25- 80	80	65	97.5	M18	2
SK04105	SK50xSLN32- 100	100	72	97.5	M20	2
SK04110	SK50xSLN40- 100	100	90	97.5	M20	2
SK04115	SK50xSLN42- 100	100	90	97.5	M20	2
SK04120	SK50xSLN50- 125	125	100	97.5	M24	2
SK04125	SK50xSLN63- 150	150	125	97.5	M24	2

*Custom-built products are available on request.

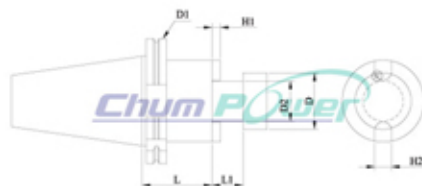
SK FACE MILL HOLDER

SK 面銑式立銑刀把

SK Shank DIN 69871-A with Face Mill DIN 6357

APPLICATION:

- The product can be applied for Face milling.
- 本產品適用於平面銑削加工



Code NO. 型號	TYPE 規格	L	L1	D	D1	D2	H1	H2
SK06005	SK30xFMB22- 35	35	18	26	50	22	4.8	10
SK06010	SK30xFMB27- 35	35	20	35	50	27	5.8	12
SK06015	SK40xFMB22- 35	35	18	26	63.55	22	4.8	10
SK06020	SK40xFMB27- 60	60	20	35	63.55	27	5.8	12
SK06025	SK40xFMB32- 60	60	22	41	63.55	32	6.8	14
SK06030	SK40xFMB40- 60	60	25	48	63.55	40	8.3	16
SK06035	SK50xFMB22- 35	35	18	26	97.5	22	4.8	10
SK06040	SK50xFMB27- 35	35	20	35	97.5	27	5.8	12
SK06045	SK50xFMB32- 35	35	22	41	97.5	32	6.8	14
SK06050	SK50xFMB40- 50	50	25	48	97.5	40	8.3	16
SK06055	SK50xFMB50- 60	60	30	68	97.5	50	9.7	19
SK06060	SK40xFMB40F- 60	60	26	-	63.55	40	8.3	16
SK06065	SK50xFMB40F- 70	70	26	-	97.5	40	8.3	16
SK06070	SK50xFMB60F- 70	70	25	-	97.5	60	12.5	25.4
SK06075	SK40xFS40- 60	60	26	-	63.55	40	8.3	16
SK06085	SK50xFS60- 70	70	25	-	97.5	60	12.5	25.4

*Custom-built products are available on request.

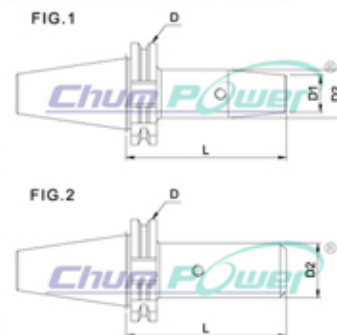
SK SLIM-FIT COLLET CHUCKS

SK 後拉式立銑刀夾

SK Shank DIN 69871-A

APPLICATION:

- Slim-Fit collet chuck is clamped by Slim-Fit collet, it is applied for high-speed and high precision machining.
- 後拉式刀把採用後拉式筒夾夾持，適用於高速精密之加工。



Code NO. 型號	TYPE 規格	L	D	D1	D2	FIG. 圖
SK05005	SK30xSBL6-70	70	50	23	30	1
SK05015	SK30xSBL12-80	80	50	-	34	2
SK05025	SK30xSBL20-80	80	50	-	42	2
SK05035	SK40xSBL6-70	70	63.55	23	30	1
SK05045	SK40xSBL12-80	80	63.55	-	34	2
SK05055	SK40xSBL20-80	80	63.55	-	42	2
SK05065	SK50xSBL6-70	70	97.5	23	30	1
SK05075	SK50xSBL12-70	70	97.5	-	34	2
SK05085	SK50xSBL20-80	80	97.5	-	42	2

*Custom-built products are available on request.



HSK CHU CNC DRILL CHUCKS

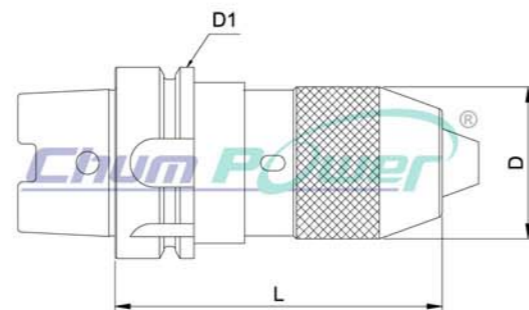
HSK 直結式鑽夾頭

HSK Shank DIN 69893-1A

FEATURES:

- 3 times better clamping capacity, comparing to keyed drill chucks.
- The drill bit won't be loosen or falling off.
- Twice precision than the keyed drill chucks.
- The drill chuck is interchangeable.

- 比普通夾頭多3倍的夾持力
- 鑽頭不會鬆脫或掉落
- 比普通夾頭多出2倍精準
- 可替換式的夾頭



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
HK01510	HSK50AxCHU13-110	110	50	50	12806
HK01520	HSK63AxCHU13-145	145	50	63	12806
HK01530	HSK100AxCHU13-120	120	50	100	12806

*Custom-built products are available on request.

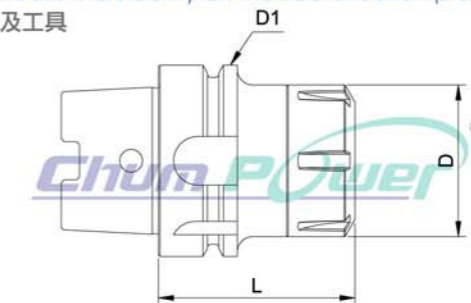
HSK ER COLLET CHUCKS

HSK刀把 ER立銑式

HSK Shank DIN 69893-1A with Collet Chuck DIN 6499

APPLICATION:

- The product can be applied for end mills, drill bits, drill reamers, taps, and can clamp any straight cutters and tools.
- The product matches HSK BBT system (Big+Plus). It can increase the stability on the side direction processing.
- 本產品可應用於銑刀, 鑽頭, 鉸刀, 絲攻及可夾持任何直式的刀具及工具
- 搭配HSK兩面拘束, 可增加側向加工的穩定性。



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
HK02011	HSK40AxER20- 80	80	34	40	80072-03
HK02015	HSK40AxER25- 80	80	42	40	80072-04
HK02020	HSK50AxER16- 80	80	28	50	80072-02
HK02035	HSK50AxER20- 80	80	34	50	80072-03
HK02050	HSK50AxER25- 80	80	42	50	80072-04
HK02065	HSK50AxER32- 100	100	50	50	80072-05
HK02080	HSK63AxER16- 80	80	28	63	80072-02
HK02100	HSK63AxER20- 80	80	34	63	80072-03
HK02120	HSK63AxER25- 80	80	42	63	80072-04
HK02140	HSK63AxER32- 80	80	50	63	80072-05
HK02165	HSK63AxER40- 80	80	63	63	80072-06
HK02190	HSK63AxER50- 120	120	78	63	80072-07

*Custom-built products are available on request.



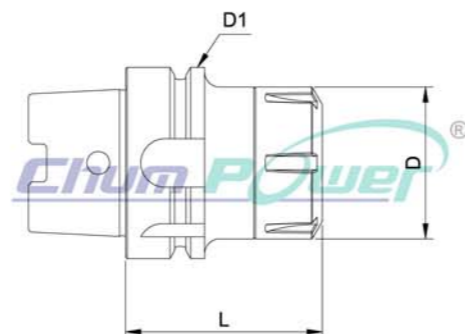
HSK ER COLLET CHUCKS

HSK刀把 ER立銑式

HSK Shank DIN 69893-1A with Collet Chuck DIN 6499

APPLICATION:

- The product can be applied for end mills, drill bits, drill reamers, taps, and can clamp any straight cutters and tools.
- The product matches HSK BBT system (Big+Plus). It can increase the stability on the side direction processing.
- 本產品可應用於銑刀, 鑽頭, 鉸刀, 絲攻及可夾持任何直式的刀具及工具
- 搭配HSK兩面拘束, 可增加側向加工的穩定性。



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
HK02195	HSK100AxER16- 80	80	28	100	80072-02
HK02210	HSK100AxER20- 80	80	34	100	80072-03
HK02225	HSK100AxER25- 100	100	42	100	80072-04
HK02235	HSK100AxER32- 100	100	50	100	80072-05
HK02250	HSK100AxER40- 100	100	63	100	80072-06
HK02265	HSK100AxER50- 100	100	78	100	80072-07

*Custom-built products are available on request.



HSK MILLING CHUCKS

HSK強力式立銑刀把

HSK Shank DIN 69893-1A

FEATURES:

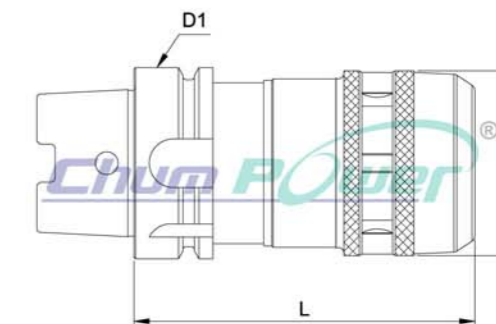
- It is designed with inner rolling needles inside. This design can reduce the friction resistance when tightening and the wear of parts.
- The design of dustproof can prevent iron scrap dropping and extend longevity of chuck.
- The high clamping force is available. The product can prevent the cutting tools from slipping when the users worked it and increase the longevity of cutting tools.
- High rigidity
- High precision

特性

- 內部滾針設計, 可減少鎖緊時之摩擦阻力及零件磨耗。
- 防塵設計減少鐵屑掉入以延長使用壽命。
- 高夾持力, 防止刀具於加工時滑脫, 增加刀具壽命
- 高剛性
- 高精密

APPLICATION:

- The Milling chuck can be applied for heavy-duty & higher accuracy cutting.
- The product matches HSK BBT system (Big+Plus). It can increase the stability on the side direction processing.
- 此強力銑刀把適用重型及高精密切削
- 搭配HSK兩面拘束, 可增加側向加工的穩定性。



Code NO. 型號	TYPE 規格	L	D	D1	Spanner No. 扳手編號
HK03010	HSK50AxC20- 120	120	52	50	80200-05
HK03015	HSK63AxC20- 90	90	52	63	80200-05
HK03030	HSK63AxC32- 120	120	69	63	80200-15
HK03040	HSK63AxC42- 120	120	86	63	80200-20

*Custom-built products are available on request.



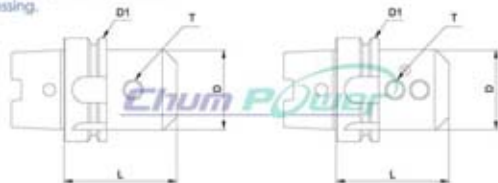
HSK SIDE LOCK END MILL HOLDER

HSK 側固式立銑刀把

HSK Shank DIN 69893-1A with Side Lock End Mill DIN 1835E

APPLICATION:

- It can be applied for heavy cutting and milling process generally. □ 適用於重切削及一般銑削加工
- The cutting tools can be clamped precisely. Even it's worked in heavy cutting, it will not result in slipping on cutting tools. □ 刀具夾持確實，即使重切削亦不致造成刀具滑動
- The product matches HSK 8BT system (Big+Plus). It can increase the stability on the side direction processing. □ 搭配HSK兩面拘束，可增加側向加工的穩定性。



Code NO. 型號	TYPE 規格	L	D	D1	T	FIG. 圖
HK04015	HSK50AxSLN6- 65	65	25	50	M6	1
HK04025	HSK50AxSLN8- 65	65	28	50	M8	1
HK04035	HSK50AxSLN10- 65	65	35	50	M10	1
HK04045	HSK50AxSLN12- 80	80	42	50	M12	1
HK04050	HSK50AxSLN14- 80	80	44	50	M12	1
HK04055	HSK50AxSLN16- 80	80	48	50	M14	1
HK04065	HSK50AxSLN18- 80	80	50	50	M14	1
HK04070	HSK50AxSLN20- 80	80	52	50	M16	1
HK04080	HSK63AxSLN6- 65	65	25	63	M6	1
HK04090	HSK63AxSLN8- 65	65	28	63	M8	1
HK04100	HSK63AxSLN10- 65	65	35	63	M10	1
HK04110	HSK63AxSLN12- 80	80	42	63	M12	1
HK04115	HSK63AxSLN14- 80	80	44	63	M12	1
HK04120	HSK63AxSLN16- 80	80	48	63	M14	1
HK04130	HSK63AxSLN18- 80	80	50	63	M14	1
HK04145	HSK63AxSLN25- 110	110	65	63	M18	2
HK04150	HSK63AxSLN32- 110	110	72	63	M20	2
HK04155	HSK100AxSLN6- 80	80	25	100	M6	1
HK04160	HSK100AxSLN8- 80	80	28	100	M8	1
HK04165	HSK100AxSLN10- 80	80	35	100	M10	1
HK04170	HSK100AxSLN12- 80	80	42	100	M12	1
HK04175	HSK100AxSLN14- 80	80	44	100	M12	1
HK04180	HSK100AxSLN16- 100	100	48	100	M14	1
HK04185	HSK100AxSLN18- 100	100	50	100	M14	1
HK04190	HSK100AxSLN20- 100	100	52	100	M16	1
HK04195	HSK100AxSLN25- 100	100	65	100	M18	2
HK04200	HSK100AxSLN32- 100	100	72	100	M20	2
HK04205	HSK100AxSLN40- 120	120	90	100	M20	2

*Custom-built products are available on request.

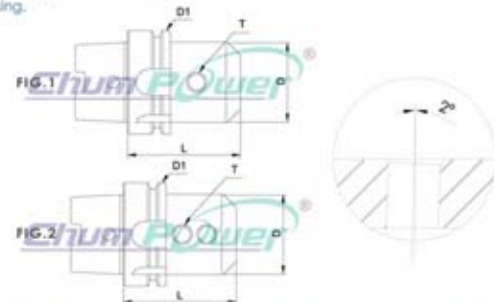
HSK SIDE LOCK END MILL HOLDER

HSK 側固式立銑刀把

HSK Shank DIN 69893-1A with Side Lock End Mill DIN 1835E

APPLICATION:

- It can be applied for heavy cutting and milling process generally. □ 適用於重切削及一般銑削加工
- The cutting tools can be clamped precisely. Even it's worked in heavy cutting, it will not result in slipping on cutting tools. □ 刀具夾持確實，即使重切削亦不致造成刀具滑動
- The product matches HSK 8BT system (Big+Plus). It can increase the stability on the side direction processing. □ 搭配HSK兩面拘束，可增加側向加工的穩定性。



Code NO. 型號	TYPE 規格	L	D	D1	T	FIG. 圖
HK04210	HSK50AxSLNB6- 80	80	25	50	M6	1
HK04215	HSK50AxSLNB8- 80	80	28	50	M8	1
HK04220	HSK50AxSLNB10- 80	80	35	50	M10	1
HK04225	HSK50AxSLNB12- 90	90	42	50	M12	1
HK04230	HSK50AxSLNB14- 90	90	44	50	M12	1
HK04235	HSK50AxSLNB16- 90	90	48	50	M14	1
HK04240	HSK50AxSLNB18- 90	90	50	50	M14	1
HK04245	HSK50AxSLNB20- 100	100	52	50	M16	1
HK04250	HSK63AxSLNB6- 80	80	25	63	M6	1
HK04255	HSK63AxSLNB8- 80	80	28	63	M8	1
HK04260	HSK63AxSLNB10- 80	80	35	63	M10	1
HK04265	HSK63AxSLNB12- 90	90	42	63	M12	1
HK04270	HSK63AxSLNB14- 90	90	44	63	M12	1
HK04275	HSK63AxSLNB16- 100	100	48	63	M14	1
HK04280	HSK63AxSLNB18- 100	100	50	63	M14	1
HK04285	HSK63AxSLNB20- 100	100	52	63	M16	1
HK04290	HSK63AxSLNB25- 110	110	65	63	M18	2
HK04295	HSK63AxSLNB32- 110	110	72	63	M20	2
HK04300	HSK100AxSLNB6- 90	90	25	100	M6	1
HK04305	HSK100AxSLNB8- 90	90	28	100	M8	1
HK04310	HSK100AxSLNB10- 90	90	35	100	M10	1
HK04315	HSK100AxSLNB12- 100	100	42	100	M12	1
HK04320	HSK100AxSLNB14- 100	100	44	100	M12	1
HK04325	HSK100AxSLNB16- 100	100	48	100	M14	1
HK04330	HSK100AxSLNB18- 100	100	50	100	M14	1
HK04335	HSK100AxSLNB20- 110	110	52	100	M16	1
HK04340	HSK100AxSLNB25- 120	120	65	100	M18	2
HK04345	HSK100AxSLNB32- 120	120	72	100	M20	2
HK04350	HSK100AxSLNB40- 120	120	90	100	M20	2

*Custom-built products are available on request.

HSK FACE MILL HOLDER

HSK 面銑式立銑刀把

HSK Shank DIN 69893-1A with Face Mill DIN 6357

APPLICATION:

- The product can be applied for Face milling.
- The product matches HSK BBT system (Big+Plus). It can increase the stability on the side direction processing.
- 本產品適用於平面銑削加工。
- 搭配HSK兩面拘束，可增加側向加工的穩定性。



Code NO. 型號	TYPE 規格	L	L1	D	D1	D2	H1	H2
HK06010	HSK40AxFMB16- 50	50	17	-	40	16	3.8	8
HK06015	HSK40AxFMB22- 60	60	18	26	40	22	4.8	10
HK06020	HSK40AxFMB27- 60	60	20	35	40	27	5.8	12
HK06025	HSK40AxFMB32- 60	60	22	41	40	32	6.8	14
HK06035	HSK50AxFMB16- 50	50	17	-	50	16	3.8	8
HK06040	HSK50AxFMB22- 50	50	18	26	50	22	4.8	10
HK06055	HSK50AxFMB27- 60	60	20	35	50	27	5.8	12
HK06060	HSK50AxFMB32- 60	60	22	41	50	32	6.8	14
HK06065	HSK63AxFMB16- 50	50	17	-	63	16	3.8	8
HK06070	HSK63AxFMB22- 50	50	18	26	63	22	4.8	10
HK06080	HSK63AxFMB27- 60	60	20	35	63	27	5.8	12
HK06090	HSK63AxFMB32- 60	60	22	41	63	32	6.8	14
HK06095	HSK63AxFMB40- 60	60	25	48	63	40	8.3	16
HK06100	HSK100AxFMB22- 50	50	18	26	100	22	4.8	10
HK06105	HSK100AxFMB27- 50	50	20	35	100	27	5.8	12
HK06110	HSK100AxFMB32- 50	50	22	41	100	32	6.8	14
HK06115	HSK100AxFMB40- 70	60	25	48	100	40	8.3	16
HK06120	HSK100AxFMB50- 70	70	30	68	100	50	9.7	19
HK06125	HSK100AxFMB60- 70	70	40	-	100	60	9.7	19

*Custom-built products are available on request.

HSK SLIM-FIT CHUCKS

HSK 後拉式立銑刀把

HSK Shank DIN 69893-1A

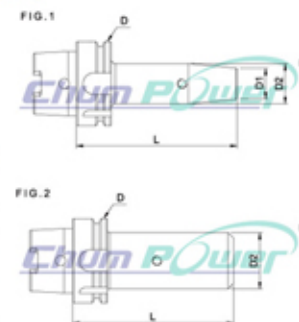
APPLICATION:

- Slim-Fit collet chuck is clamped by Slim-Fit collet, it is applied for high-speed and high precision machining.
- The product matches HSK BBT system (Big+Plus). It can increase the stability on the side direction processing.

■ 後拉式刀桿採用後拉式細芯夾持，適用於高轉速精密加工。



Slim Fit Collet
後拉筒夾 (page E-46)



Code NO. 型號	TYPE 規格	L	D	D1	D2	FIG. 圖
HK05016	HSK50AxSBL6-105	105	50	23	30	1
HK05022	HSK50AxSBL12-120	120	50	-	34	2
HK05028	HSK50AxSBL20-130	130	50	-	42	2
HK05034	HSK63AxSBL6-110	110	63	23	30	1
HK05040	HSK63AxSBL12-120	120	63	-	42	2
HK05046	HSK63AxSBL20-130	130	63	-	42	2

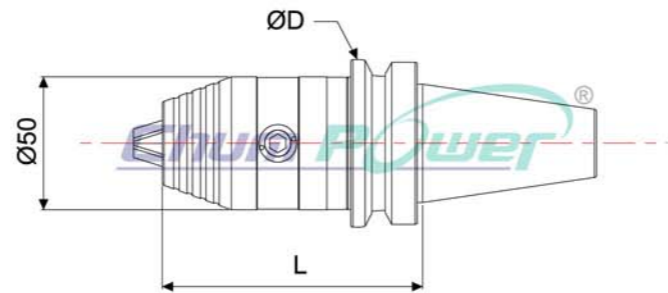
*Custom-built products are available on request.



BT Hex Key Drill Chuck

BT 齒輪式夾頭

MAS 403 (JIS B 6339)



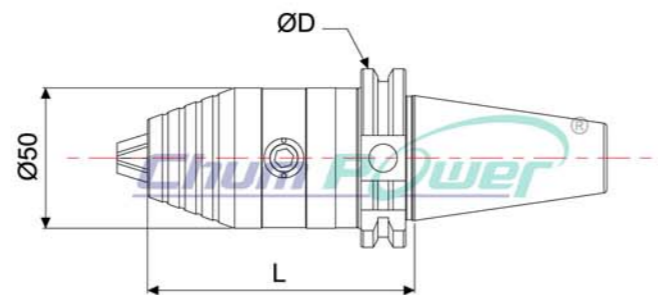
Code NO. 型號	Type 規格	夾持量	Capacity	L	ØD
		mm	inch		
BT22518	BT40xGHK13-98	0.3-13	3/64-1/2	98	63
BT22520	BT40xGHK16-103	1.5-16	1/16-5/8	103	63
BT22550	BT50xGHK13-109	0.3-13	3/64-1/2	109	100
BT22560	BT50xGHK16-114	1.5-16	1/16-5/8	114	100

*Custom-built products are available on request.

SK Hex Key Drill Chuck

SK 齒輪式夾頭

DIN 69871



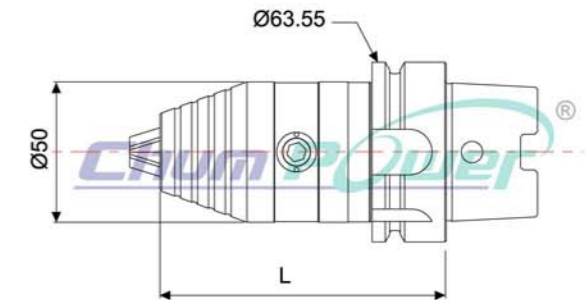
Code NO. 型號	Type 規格	夾持量	Capacity	L	ØD
		mm	inch		
SK22520	SK40xGHK13-90	0.3-13	3/64-1/2	90	63.55
SK22530	SK40xGHK16-95	1.5-16	1/16-5/8	95	63.55
SK22550	SK50xGHK13-90	0.3-13	3/64-1/2	90	97.5
SK22560	SK50xGHK16-95	1.5-16	1/16-5/8	95	97.5

*Custom-built products are available on request.

HSK Hex Key Drill Chuck

HSK 齒輪式夾頭

DIN 69893



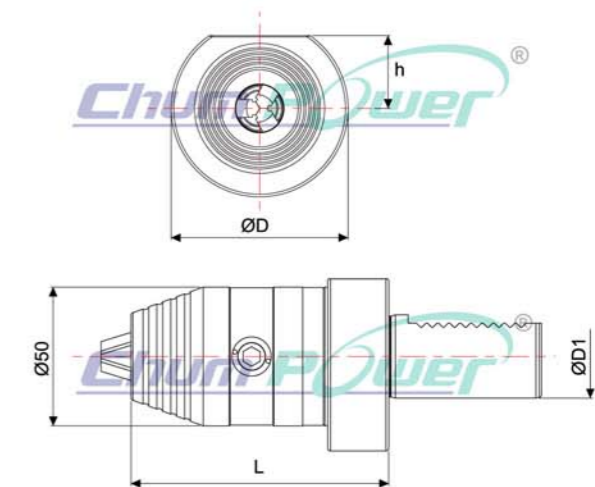
Code NO. 型號	Type 規格	夾持量	Capacity	L
		mm	inch	
HK22526	HSK63AxGHK13-105	0.3-13	3/64-1/2	105
HK22528	HSK63AxGHK16-110	1.5-16	1/16-5/8	110

*Custom-built products are available on request.

VDI Hex Key Drill Chuck

VDI 齒輪式夾頭

DIN 69880-1



Code NO. 型號	Type 規格	夾持量	Capacity	L	ØD	h	ØD1
		mm	inch				
VD22533	VDI30xGHK13-93	0.3-13	3/64-1/2	93	68	28	30
VD22536	VDI30xGHK16-98	1.5-16	1/16-5/8	98	68	28	30
VD22542	VDI40xGHK13-93	0.3-13	3/64-1/2	93	83	32	40
VD22545	VDI40xGHK16-98	1.5-16	1/16-5/8	98	83	32	40

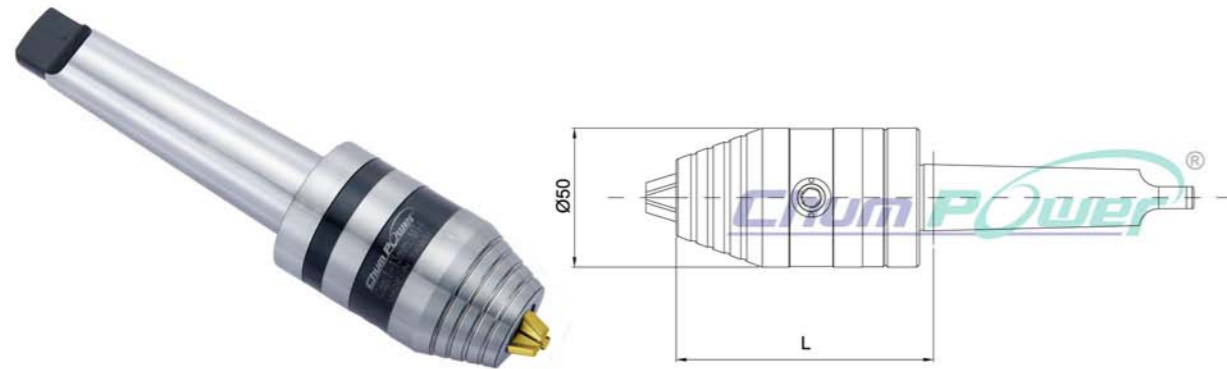
*Custom-built products are available on request.

HEX KEY DRILL CHUCKS Arbor Type

MT (Morse Taper)

APPLICATION:

Arbor structure makes its performance perfect for drilling press and machine center. Fine components ensure the tolerance and accuracy well. The benefit of titanium jaws is to increase the intensity and wear-resistance.



Code NO. 型號	Type 規格	夾持量		Capacity inch	L
		mm			
MT22505	MT3xGHK13-88	0.3-13		1/64-1/2	88
MT22508	MT3xGHK16-93	1.5-16		1/16-5/8	93
MT22510	MT4xGHK13-89	0.3-13		1/64-1/2	89
MT22513	MT4xGHK16-94	1.5-16		1/16-5/8	94

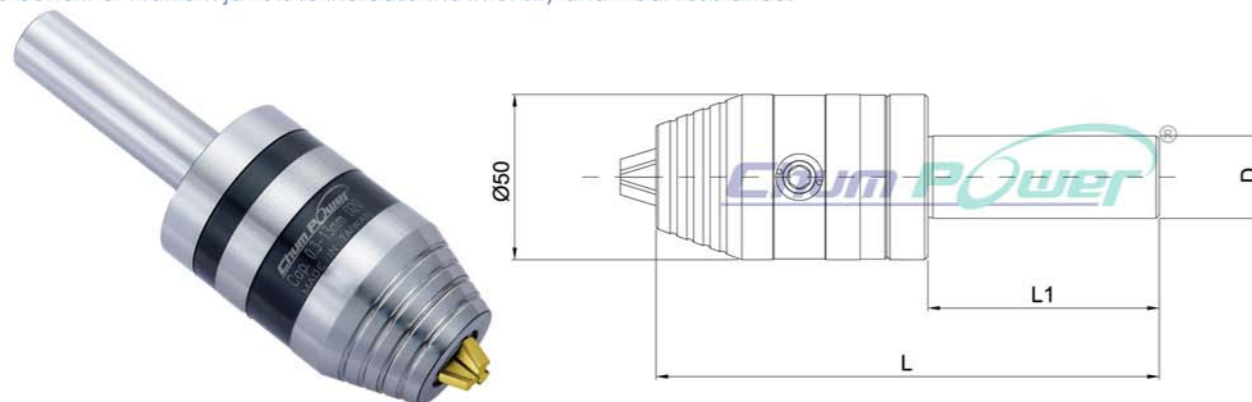
*Custom-built products are available on request.

HEX KEY DRILL CHUCKS Arbor Type

D (Straight Shank)

APPLICATION:

Arbor structure makes its performance perfect for drilling press and machine center. Fine components ensure the tolerance and accuracy well. The benefit of titanium jaws is to increase the intensity and wear-resistance.

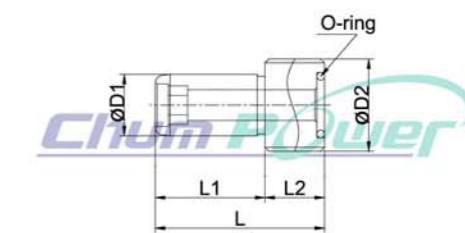


Code NO. 型號	Type 規格	夾持量		Capacity inch	L	L1	ØD
		mm					
DD22515	D20xGHK13-152	0.3-13		1/64-1/2	152	70	20
DD22518	D20xGHK16-157	1.5-16		1/16-5/8	157	70	20
DD22525	D25xGHK13-152	0.3-13		1/64-1/2	152	70	25
DD22528	D25xGHK16-157	1.5-16		1/16-5/8	157	70	25
DD22535	D32xGHK13-152	0.3-13		1/64-1/2	152	70	32
DD22538	D32xGHK16-157	1.5-16		1/16-5/8	157	70	32

*Custom-built products are available on request.

Coolant Pipe

冷卻導管

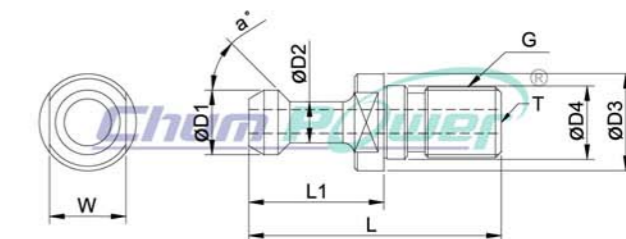


Code NO. 型號	HSK NO.	ØD1	ØD2	L	L1	L2	O-ring
84652	HSK32	6	M10x1.0	26	20.5	5.5	P4
84654	HSK40	8	M12x1.0	29.5	22	7.5	P6
84656	HSK50	10	M16x1.0	33	23.5	9.5	P9
84658	HSK63	12	M18x1.0	36.5	25	11.5	P11
84660	HSK80	14	M20x1.5	40	25.5	13.5	P12
84662	HSK100	16	M24x1.5	44	28.5	15.5	P15

BT/Coolant Thru-Hole Models

Pull Stud 拉栓

BT 水孔型

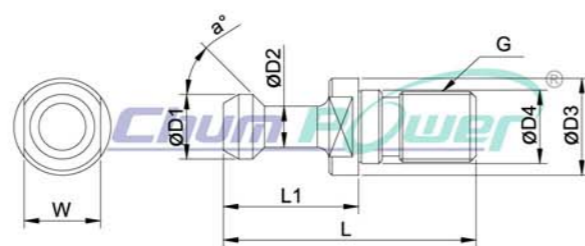


Code NO. 型號	TYPE BT-α 規格	T	W	L	L1	ØD1	ØD2	ØD3	ØD4	G
81210	BT40-45°	Ø4	19	60	35	15	10	23	17	M16
81211	BT40-60°	Ø4								
81212	BT40-90°	Ø4								
81268	BT50-45°	Ø7	30	85	45	23	17	38	25	M24
81269	BT50-60°	Ø7								
81270	BT50-90°	Ø7								

BT/Threading Ground Models

Pull Stud 拉栓

BT 磨牙型

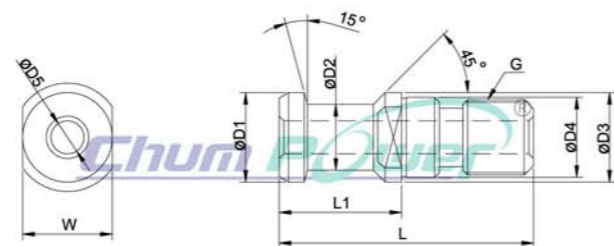


Code NO. 型號	TYPE (BT-α°G) 規格	W	L	L1	ØD1	ØD2	ØD3	ØD4	G
81242	BT30-45°G	13	43	23	11	7	16.5	12.5	M12
81245	BT40-45°G	19	60	35	15	10	23	17	M16
81244	BT50-45°G	30	85	45	23	17	38	25	M24
81243	BT30-60°G	13	43	23	11	7	16.5	12.5	M12
81246	BT40-60°G	19	60	35	15	10	23	17	M16
81247	BT50-60°G	30	85	45	23	17	38	25	M24
81248	BT30-90°G	13	43	23	11	7	16.5	12.5	M12
81249	BT40-90°G	19	60	35	15	10	23	17	M16
81250	BT50-90°G	30	85	45	23	17	38	25	M24

DIN A Type

Pull Stud 拉栓

DIN A型

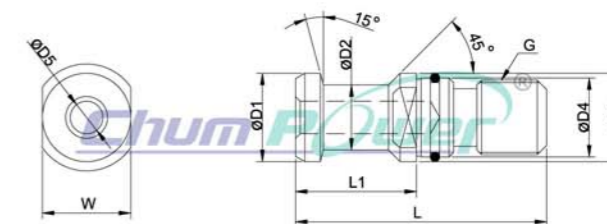


Code NO. 型號	TYPE 規格	W	L	L1	ØD1	ØD2	ØD3	ØD4	ØD5	G
81251	DIN 30A	14	44	24	13	9	17	13	-	M12
81252	DIN 40A	19	54	26	19	14	23	17	7	M16
81253	DIN 40-A-L	19	54	29	19	14	23	17	7	M16
81254	DIN 50A	30	74	34	28	21	36	25	11.5	M24

DIN B Type

Pull Stud 拉栓

DIN B型

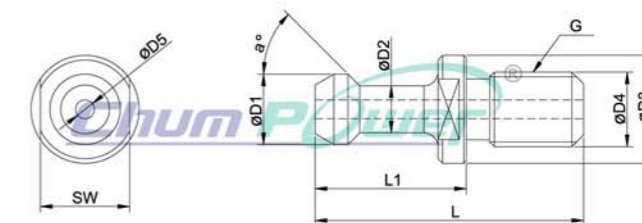


Code NO. 型號	TYPE 規格	W	L	L1	ØD1	ØD2	ØD3	ØD4	ØD5	G
81255	DIN 30B	14	44	24	13	9	17	13	-	M12
81256	DIN 40B	19	54	26	19	14	23	17	7	M16
81257	DIN 50B	30	74	34	28	21	36	25	11.5	M24

DIN / R Type

Pull Stud 拉栓

DIN R型

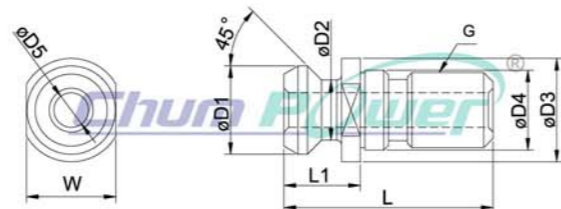


Code NO. 型號	TYPE 規格	SW	L	L1	ØD1	ØD2	ØD3	ØD4	ØD5	G
81258	DIN 40-R	19	57	32	15	10	23	16	4	M16*P2.0

ISO A Type / ISO B Type

ISO A型 / ISO B型

Pull Stud 拉栓

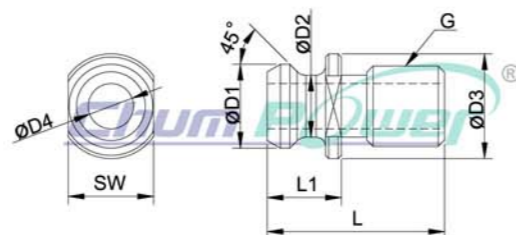


Code NO. 型號	TYPE 規格	W	L	L1	$\phi D1$	$\phi D2$	$\phi D3$	$\phi D4$	$\phi D5$	G
81259	ISO 40-A	19	54	26	19	14	23	17	7	M16
81260	ISO 50-A	30	74	34	28	21	36	25	11.5	M24
81261	ISO 40-B	19	44.5	16.4	18.8	12.95	22.5	17	7.3	M16
81262	ISO 50-B	30	65.5	25.5	29.1	19.6	37	25	11.5	M24

CAT Standard Models

CAT 標準型

Pull Stud 拉栓



Code NO. 型號	TYPE 規格	SW	L	L1	$\phi D1$	$\phi D2$	$\phi D3$	$\phi D4$	G
81263	CAT 40	0.75	1.5	0.64	0.74	0.49	0.94	0.281	5/8"-11
81264	CAT 50	1.25	2.3	1	1.14	0.82	1.44	0.468	1"-8

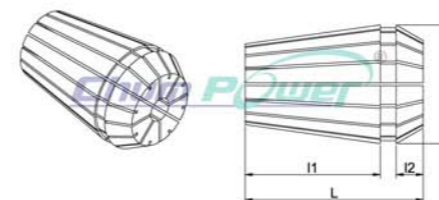
ER SPRING COLLET SYSTEM

彈性筒夾

DIN 6499

APPLICATION:

- It is applied for a variety of processing including drilling, milling, tapping and grinding.
- 它適用於各種的加工, 包含鑽孔, 銑床, 攻牙和研磨



※Toolholder not included
不含刀把

Code NO. 型號	TYPE 規格	Collect 筒夾	D	L	I1	I2
80001	ER8x9	5, 4.5, 4, 3.5, 3, 2.5, 2, 1.5, 1	8.5	13.5	10.8	1.5
80002	ER11x7	7, 6, 5, 4, 3, 2, 1	11.5	18	13.5	2.5
80003	ER11x13	7, 6.5, 6, 5.5, 5, 4.5, 4, 3.5, 3, 2.5, 2, 1.5, 1				
80004	ER16x8	10, 9, 8, 7, 6, 5, 4, 3	17	27	20.8	4
80005	ER16x10	10, 9, 8, 7, 6, 5, 4, 3, 2, 1				
80006	ER20x10	13, 12, 11, 10, 9, 8, 7, 6, 5, 4	21	31	23.9	4.8
80007	ER20x12	13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2				
80008	ER25x7	16, 14, 12, 10, 8, 6, 4	26	35	25.9	5
80009	ER25x15	16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2				
80010	ER32x6	20, 16, 12, 10, 8, 6	33	40	30.9	5.5
80011	ER32x11	20, 18, 16, 15, 13, 12, 10, 8, 6, 5, 4				
80014	ER32x18	20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3	41	46	34.9	7
80013	ER40x7	25, 20, 16, 12, 10, 8, 6				
80015	ER40x15	26, 25, 22, 21, 20, 18, 16, 15, 13, 12, 10, 8, 6, 5, 4	41	46	34.9	7
80016	ER40x23	26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4				
80017	ER50x12	34, 32, 30, 28, 26, 24, 22, 20, 18, 16, 14, 12	52	60	46	8.5

ER SPRING COLLET SYSTEM

彈性筒夾

DIN 6499

APPLICATION:

- It is applied for a variety of processing including drilling, milling, tapping and grinding.
- 它適用於各種的加工，包含鑽孔、銑床、攻牙和研磨



Code NO. 型號	TYPE 規格
80001-01	ER8(1.0-0.5)
80001-02	ER8(1.5-1.0)
80001-03	ER8(2.0-1.5)
80001-04	ER8(2.5-2.0)
80001-05	ER8(3.0-2.5)
80001-06	ER8(3.5-3.0)
80001-07	ER8(4.0-3.5)
80001-08	ER8(4.5-4.0)
80001-09	ER8(5.0-4.5)

Code NO. 型號	TYPE 規格
80003-01	ER11(1.0-0.5)
80003-02	ER11(1.5-1.0)
80003-03	ER11(2.0-1.5)
80003-04	ER11(2.5-2.0)
80003-05	ER11(3.0-2.5)
80003-06	ER11(3.5-3.0)
80003-07	ER11(4.0-3.5)
80003-08	ER11(4.5-4.0)
80003-09	ER11(5.0-4.5)
80003-10	ER11(5.5-5.0)
80003-11	ER11(6.0-5.5)
80003-12	ER11(6.5-6.0)
80003-13	ER11(7.0-6.5)

Code NO. 型號	TYPE 規格
80005-01	ER16(1.0-0.5)
80005-02	ER16(1.5-1.0)
80005-03	ER16(2.0-1.5)
80005-04	ER16(2.5-2.0)
80005-05	ER16(3.0-2.5)
80005-06	ER16(3.5-3.0)
80005-07	ER16(4.0-3.5)
80005-08	ER16(4.5-4.0)
80005-09	ER16(5.0-4.5)
80005-10	ER16(5.5-5.0)
80005-12	ER16(6.0-5.5)
80005-20	ER16(6.5-6.0)
80005-14	ER16(7.0-6.5)
80005-15	ER16(7.5-7.0)
80005-16	ER16(8.0-7.5)
80005-17	ER16(8.5-8.0)
80005-18	ER16(9.0-8.5)
80005-19	ER16(9.5-9.0)
80005-13	ER16(10.0-9.5)

Code NO. 型號	TYPE 規格
80009-02	ER25(2.0-1.0)
80009-03	ER25(3.0-2.0)
80009-04	ER25(4.0-3.0)
80009-05	ER25(5.0-4.0)
80009-06	ER25(6.0-5.0)
80009-07	ER25(7.0-6.0)
80009-13	ER25(8.0-7.0)
80009-14	ER25(9.0-8.0)
80009-15	ER25(10-9.0)
80009-16	ER25(11-10)
80009-17	ER25(12-11)
80009-18	ER25(13-12)
80009-19	ER25(14-13)
80009-20	ER25(15-14)
80009-21	ER25(16-15)

ER SPRING COLLET SYSTEM

彈性筒夾

DIN 6499

APPLICATION:

- It is applied for a variety of processing including drilling, milling, tapping and grinding.
- 它適用於各種的加工，包含鑽孔、銑床、攻牙和研磨



Code NO. 型號	TYPE 規格
80017-06	ER50(12-10)
80017-07	ER50(14-12)
80017-08	ER50(16-14)
80017-09	ER50(18-16)
80017-10	ER50(20-18)
80017-11	ER50(22-20)
80017-12	ER50(24-22)
80017-13	ER50(26-24)
80017-14	ER50(28-26)
80017-15	ER50(30-28)
80017-16	ER50(32-30)
80017-17	ER50(34-32)

Code NO. 型號	TYPE 規格
80007-17	ER20(1.0-0.5)
80007-01	ER20(1.5-1.0)
80007-02	ER20(2.0-1.5)
80007-03	ER20(2.5-2.0)
80007-04	ER20(3.0-2.5)
80007-05	ER20(3.5-3.0)
80007-06	ER20(4.0-3.5)
80007-07	ER20(4.5-4.0)
80007-08	ER20(5.0-4.5)
80007-09	ER20(5.5-5.0)
80007-10	ER20(6.0-5.5)
80007-11	ER20(6.5-6.0)
80007-12	ER20(7.0-6.5)
80007-13	ER20(7.5-7.0)
80007-14	ER20(8.0-7.5)
80007-15	ER20(8.5-8.0)
80007-16	ER20(9.0-8.5)
80007-18	ER20(9.5-9.0)
80007-19	ER20(10-9.5)
80007-20	ER20(10.5-10)
80007-21	ER20(11-10.5)
80007-22	ER20(11.5-11)
80007-23	ER20(12-11.5)
80007-24	ER20(12.5-12)
80007-25	ER20(13-12.5)

Code NO. 型號	TYPE 規格
80014-01	ER32(2.0-1.0)
80014-02	ER32(3.0-2.0)
80014-03	ER32(4.0-3.0)
80014-04	ER32(5.0-4.0)
80014-05	ER32(6.0-5.0)
80014-06	ER32(7.0-6.0)
80014-11	ER32(8.0-7.0)
80014-12	ER32(9.0-8.0)
80014-13	ER32(10-9.0)
80014-14	ER32(11-10)
80014-15	ER32(12-11)
80014-16	ER32(13-12)
80014-17	ER32(14-13)
80014-18	ER32(15-14)
80014-19	ER32(16-15)
80014-20	ER32(17-16)
80014-21	ER32(18-17)
80014-22	ER32(19-18)
80014-23	ER32(20-19)

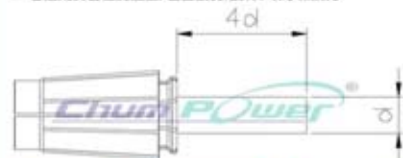
Code NO. 型號	TYPE 規格
80016-01	ER40(3.0-2.0)
80016-02	ER40(4.0-3.0)
80016-03	ER40(5.0-4.0)
80016-04	ER40(6.0-5.0)
80016-05	ER40(7.0-6.0)
80016-06	ER40(8.0-7.0)
80016-11	ER40(9.0-8.0)
80016-12	ER40(10-9.0)
80016-13	ER40(11-10)
80016-14	ER40(12-11)
80016-15	ER40(13-12)
80016-16	ER40(14-13)
80016-17	ER40(15-14)
80016-18	ER40(16-15)
80016-19	ER40(17-16)
80016-20	ER40(18-17)
80016-21	ER40(19-18)
80016-22	ER40(20-19)
80016-23	ER40(21-20)
80016-24	ER40(22-21)
80016-25	ER40(23-22)
80016-26	ER40(24-23)
80016-27	ER40(25-24)
80016-28	ER40(26-25)

SK SPRING COLLET SYSTEM

彈性筒夾

APPLICATION:

- It is applied for a variety of processing including drilling, milling, tapping, mill.
- 它適用於各種的加工，包含鑽孔，銑床，攻牙和銑刀



SK6			
Code No.	TYPE	Ød	RANGE
80027-06	SK6	2.0	2-1.75
80027-08	SK6	2.5	2.5-2.25
80027-10	SK6	3.0	3-2.75
80027-11	SK6	3.5	3.5-3
80027-12	SK6	4.0	4-3.5
80027-13	SK6	4.5	4.5-4
80027-14	SK6	5.0	5-4.5
80027-15	SK6	5.5	5.5-5
80027-16	SK6	6.0	6-5.5

SK16			
Code No.	TYPE	Ød	RANGE
80029-22	SK16	3	3-2.75
80029-02	SK16	3.5	3.5-3
80029-03	SK16	4	4-3.5
80029-04	SK16	4.5	4.5-4
80029-05	SK16	5	5-4.5
80029-06	SK16	5.5	5.5-5
80029-07	SK16	6	6-5.5
80029-08	SK16	6.5	6.5-6
80029-09	SK16	7	7-6.5
80029-10	SK16	7.5	7.5-7
80029-11	SK16	8	8-7.5
80029-12	SK16	8.5	8.5-8
80029-13	SK16	9	9-8.5
80029-14	SK16	9.5	9.5-9
80029-15	SK16	10	10-9.5
80029-16	SK16	10.5	10.5-10
80029-17	SK16	11	11-10.5
80029-18	SK16	11.5	11.5-11
80029-19	SK16	12	12-11.5
80029-23	SK16	12.5	12.5-12
80029-24	SK16	13	13-12.5
80029-25	SK16	13.5	13.5-13
80029-26	SK16	14	14-13.5
80029-27	SK16	14.5	14.5-14
80029-28	SK16	15	15-14.5
80029-29	SK16	15.5	15.5-15
80029-30	SK16	16	16-15.5

SK25			
Code No.	TYPE	Ød	RANGE
80031-01	SK25	6.0	6-5.5
80031-02	SK25	8.0	8-7.5
80031-03	SK25	10.0	10-9.5
80031-04	SK25	12.0	12-11.5
80031-05	SK25	14.0	14-13.4
80031-06	SK25	16.0	16-15.5
80031-10	SK25	18.0	18-17.5
80031-14	SK25	20.0	20-19.5
80031-18	SK25	22.0	22-21.5
80031-22	SK25	24.0	24-23.5
80031-24	SK25	25.0	25-24.5
80031-25	SK25	25.4	25.4-25

SK10			
Code No.	TYPE	Ød	RANGE
80028-01	SK10	2	2-1.75
80028-03	SK10	2.5	2.5-2.25
80028-05	SK10	3	3-2.75
80028-06	SK10	3.5	3.5-3
80028-07	SK10	4	4-3.5
80028-08	SK10	4.5	4.5-4
80028-09	SK10	5	5-4.5
80028-10	SK10	5.5	5.5-5
80028-11	SK10	6	6-5.5
80028-12	SK10	6.5	6.5-6
80028-13	SK10	7	7-6.5
80028-14	SK10	7.5	7.5-7
80028-15	SK10	8	8-7.5
80028-16	SK10	8.5	8.5-8
80028-17	SK10	9	9-8.5
80028-18	SK10	9.5	9.5-9
80028-19	SK10	10	10-9.5

SK20			
Code No.	TYPE	Ød	RANGE
80030-01	SK20	3.0	3-2.75
80030-02	SK20	4.0	4-3.5
80030-04	SK20	5.0	5-4.5
80030-06	SK20	6	6-5.5
80030-07	SK20	6.5	6.5-6
80030-08	SK20	7	7-6.5
80030-09	SK20	7.5	7.5-7
80030-10	SK20	8	8-7.5
80030-11	SK20	8.5	8.5-8
80030-12	SK20	9	9-8.5
80030-13	SK20	9.5	9.5-9
80030-14	SK20	10	10-9.5
80030-15	SK20	10.5	10.5-10
80030-16	SK20	11	11-10.5
80030-17	SK20	11.5	11.5-11
80030-18	SK20	12	12-11.5
80030-19	SK20	12.5	12.5-12
80030-20	SK20	13	13-12.5
80030-21	SK20	13.5	13.5-13
80030-22	SK20	14	14-13.5
80030-23	SK20	14.5	14.5-14
80030-24	SK20	15	15-14.5
80030-25	SK20	15.5	15.5-15
80030-26	SK20	16	16-15.5
80030-27	SK20	16.5	16.5-16
80030-28	SK20	17	17-16.5
80030-29	SK20	17.5	17.5-17
80030-30	SK20	18	18-17.5
80030-31	SK20	18.5	18.5-18
80030-32	SK20	19	19-18.5
80030-33	SK20	19.5	19.5-19
80030-34	SK20	20	20-19.5

SLIM FIT COLLET

後拉筒夾

APPLICATION:

- It is applied for a variety of processing including drilling, milling, tapping.
- 它適用於各種的加工，包含鑽孔，銑床，攻牙

TAPE	D	L
SBL6	Ø14.7	52.4
SBL12	Ø17.8	64.2
SBL20	Ø26.1	69.9



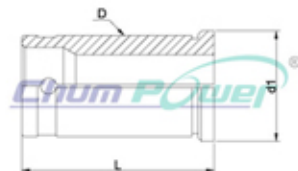
Code NO.	型號	TYPE	規格	ØD範圍
80075-12	SBL6		Ø3	
80075-14	SBL6		Ø4	
80075-20	SBL6		Ø4.5	
80075-21	SBL6		Ø5.5	
80075-16	SBL6		Ø6	
80075-18	SBL6		Ø8	
80075-26	SBL6		Ø7/64"	
80075-27	SBL6		Ø1/8"	
80075-28	SBL6		Ø9/64"	
80075-29	SBL6		Ø11/64"	
80075-30	SBL6		Ø3/16"	
80075-31	SBL6		Ø13/64"	
80075-32	SBL6		Ø15/64"	
80075-33	SBL6		Ø1/4"	

Code NO.	型號	TYPE	規格	ØD範圍
80077-06	SBL12		Ø4	
80077-08	SBL12		Ø6	
80077-10	SBL12		Ø8	
80077-12	SBL12		Ø10	
80077-14	SBL12		Ø12	
80077-16	SBL12		Ø14	
80077-26	SBL12		Ø1/8"	
80077-27	SBL12		Ø3/16"	
80077-28	SBL12		Ø1/4"	
80077-29	SBL12		Ø5/16"	
80077-30	SBL12		Ø3/8"	

Code NO.	型號	TYPE	規格	ØD範圍
80079-02	SBL20		Ø6	
80079-04	SBL20		Ø8	
80079-06	SBL20		Ø10	
80079-08	SBL20		Ø12	
80079-10	SBL20		Ø14	
80079-12	SBL20		Ø16	
80079-13	SBL20		Ø18	
80079-14	SBL20		Ø20	
80079-26	SBL20		Ø1/8"	
80079-27	SBL20		Ø3/16"	
80079-28	SBL20		Ø1/4"	
80079-29	SBL20		Ø5/16"	
80079-30	SBL20		Ø3/8"	
80079-31	SBL20		Ø1/2"	
80079-32	SBL20		Ø5/8"	
80079-33	SBL20		Ø3/4"	

STRAIGHT COLLET

直筒式彈性筒夾

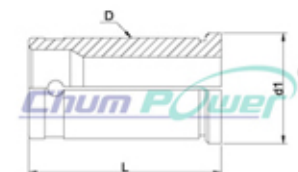


Code NO. 型號	TYPE 規格	L	D	d1
80049-02	C20-6	52	20	25
80049-04	C20-8			
80049-06	C20-10			
80049-08	C20-12			
80049-10	C20-14			
80049-12	C20-15			
80049-14	C20-16			

Code NO. 型號	TYPE 規格	L	D	d1
80050-02	C32-4	73	32	37
80050-04	C32-5			
80050-06	C32-6			
80050-08	C32-8			
80050-10	C32-10			
80050-12	C32-12			
80050-14	C32-14			
80050-16	C32-16			
80050-18	C32-18			
80050-20	C32-20			
80050-22	C32-22			
80050-24	C32-25			

STRAIGHT COLLET

直筒式彈性筒夾



Code NO. 型號	TYPE 規格	L	D	d1
80051-06	C42-6	80	42	48
80051-08	C42-8			
80051-10	C42-10			
80051-12	C42-12			
80051-14	C42-14			
80051-16	C42-16			
80051-18	C42-18			
80051-20	C42-20			
80051-22	C42-22			
80051-24	C42-25			
80051-26	C42-32			

Code NO. 型號	TYPE 規格	L	D	d1
80052-02	C25-4	60	25	31
80052-04	C25-5			
80052-06	C25-6			
80052-08	C25-8			
80052-10	C25-10			
80052-12	C25-12			
80052-14	C25-14			
80052-16	C25-16			
80052-18	C25-18			
80052-20	C25-20			



ER Straight Collet Chuck

直柄ER刀桿

ER Collet DIN 6499



Code NO. 型號	TYPE 規格	L	L1	#D	#D1
80950	ST1/2"-ER11-4"	0.825"	4"	19	1/2"
80951	ST1/2"-ER11-6"		6"		1/2"
80952	ST5/8"-ER11-4"		4"		5/8"
80953	ST5/8"-ER11-6"		6"		5/8"
80954	ST5/8"-ER16-4"	1.18"	2.5"	28	5/8"
80956	ST3/4"-ER16-4"		6"		3/4"
80957	ST3/4"-ER16-6"		4"		3/4"
80959	ST1"-ER16-4"		4"		1"
80960	ST1"-ER16-6"		6"		1"
80961	ST3/4"-ER20-2.5"	1.42"	2.5"	34	3/4"
80962	ST3/4"-ER20-4"		4"		3/4"
80963	ST3/4"-ER20-6"		6"		3/4"
80964	ST1"-ER20-2.5"		2.5"		1"
80965	ST1"-ER20-4"		4"		1"
80966	ST1"-ER20-6"		6"		1"
80968	ST1"-ER25-4"		4"		1"
80969	ST1"-ER25-6"		6"		1"
80971	ST1 1/4"-ER32-4"		4"		1 1/4"
80973	ST1 1/4"-ER40-3"	2.17"	3"	63	1 1/4"
80520	ST16-ER11-50	21	50	19	16
80521	ST16-ER11-100		100		16
80522	ST16-ER11-140		140		16
80523	ST16-ER16-100	30	100	28	20
80524	ST20-ER16-60		60		20
80525	ST20-ER16-100		100		20
80526	ST20-ER16-150		150		20
80527	ST25-ER16-100		100		25
80528	ST25-ER16-150		150		25
80529	ST20-ER20-50	36	60	34	20
80530	ST20-ER20-100		100		20
80531	ST20-ER20-150		150		20
80532	ST25-ER20-60		60		25
80533	ST25-ER20-100		100		25
80534	ST25-ER20-150		150		25
80535	ST20-ER25-60	46	60	42	20
80536	ST20-ER25-100		100		20
80537	ST20-ER25-150		150		20
80538	ST25-ER25-100		100		25
80539	ST25-ER25-150		150		25
80540	ST30-ER25-60		60		32
80541	ST20-ER32-60	54	60	50	20
80542	ST25-ER32-80		80		25
80543	ST30-ER32-100		100		30
80544	ST30-ER32-150		150		32
80545	ST40-ER32-100		100		40

E-49

Code NO. 型號	TYPE 規格	L	L1	#D	#D1
80546	ST32-ER40-100	55	100	43	32
80547	ST40-ER40-100		100		40
80981	ST16-ER115-50	22	50	16	16
80982	ST16-ER115-100		100		16
80983	ST16-ER115-150		150		16
80984	ST16-ER145-100	32	100	22	20
80985	ST20-ER145-50		50		20
80986	ST16-ER145-100		100		20
80987	ST20-ER145-150		150		20
80988	ST20-ER145-200		200		20
80989	ST25-ER145-100		100		25
80990	ST25-ER145-150	150	25		
80991	ST25-ER145-200	200	25		
80992	ST20-ER2005-50	35	50	28	20
80993	ST20-ER2005-100		100		20
80994	ST20-ER2005-150		150		20
80995	ST20-ER2005-200		200		20
80996	ST25-ER2005-100		100		25
80997	ST25-ER2005-150		150		25
80998	ST25-ER2005-200	200	25		

ER Straight Collet Chuck

直柄ER刀桿



Code NO. 型號	TYPE 規格	L	L1	#D	#D1
80581	ST16-ER115-50	22	50	16	16
80582	ST16-ER115-100		100		16
80583	ST16-ER115-150		150		16
80584	ST16-ER165-100	32	100	22	20
80585	ST20-ER165-50		50		20
80586	ST20-ER165-100		100		20
80587	ST20-ER165-150		150		20
80588	ST20-ER165-200		200		20
80589	ST25-ER165-100		100		25
80590	ST25-ER165-150	150	25		
80591	ST25-ER165-200	200	25		
80592	ST20-ER205-50	35	50	28	20
80593	ST20-ER205-100		100		20
80594	ST20-ER205-150		150		20
80595	ST20-ER205-200		200		20
80596	ST25-ER205-100		100		25
80597	ST25-ER205-150		150		25
80598	ST25-ER205-200	200	25		

E-50

Z Axial Preset Gauge

Z軸設定器



*Accuracy ± 0.01mm 精度 ± 0.01mm

Code NO. 型號	TYPE 規格
80553	ø50-50



Z Axial Preset Gauge

Z軸設定器

- For setting length on machining centers/lathe centers.
- Setting height: 50.00±0.005mm.
- Large measuring surface and easy to operate.
- Low spring force. May avoid the milling cutter or the drill bit breaking.
- Easy to be calibrated by a ground parallel or gauge block.
- Better parallelism, sensitivity, and precision for use.

- 在電腦機床/車床上設定刀長用
- 設計高度：50.00±0.005mm
- 量測面大，操作容易
- 彈簧力較小，可避免小銼刀或鑽頭斷裂
- 用研磨過的平行板，即可簡單設定
- 平行度及各方面使用靈敏，且精度更好



Code NO. 型號	TYPE 規格	Height 高度 (mm)	G. W. Weight 重量 (KGS)	LxWxH 長x寬x高 (mm)	Magnetism 磁性
84551	ZH-50A	50.00±0.005	1.2	50x63x63	O

Tool Holder Locking Device

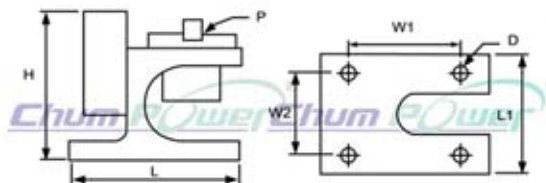
鎖刀座



Code NO. 型號	TYPE 規格	L1	L2	L3	H
84523	BT/ CAT/ SK30	117	90	72	117
84524	BT/ CAT/ SK40	117	90	72	117
84525	BT/ CAT/ SK50	137	90	92	130

Tool Locking Device

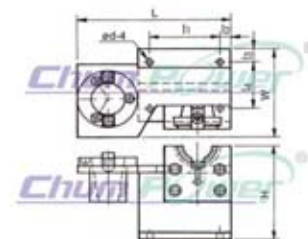
鎖刀座



Code NO. 型號	TYPE 規格	P	L	L1	H	W1	W2	D	Weight 重量 (kg)
84510	BT30	BT	145	103	143	112	72	13	4.2
84511	BT40	BT	145	103	143	112	72	13	4.2
84512	BT50	BT	177	135	205	140	100	13	7.6
84516	CAT30	CAT	145	103	143	112	72	13	4.2
84517	CAT40	CAT	145	103	143	112	72	13	4.2
84518	CAT50	CAT	177	135	205	140	100	13	7.6

Tool Locking Device A Type (Cast Iron Body)

鎖刀座 A型 (主體為鑄鐵)



Code NO. 型號	TYPE 規格	L	I1	I2	I3	I4	H	W	N. W. 淨重 (kg)	G. W. 毛重 (kg)	Shipment Size 裝箱尺寸 (cm)
8451001	CP-BT30A	210	95	10	15	67	130	100	3.6	3.7	22x11.5x14
8451101	CP-BT40A	210	95	10	15	67	130	100	3.7	3.9	22x11.5x14
8451201	CP-BT50A	275	113	20	24	105	200	150	11.0	11.4	29.5x17x21
8452901	CP-DIN40A	210	95	10	15	67	130	100	3.6	3.8	22x11.5x14
8453001	CP-DIN50A	275	113	20	24	105	200	150	10.8	11.2	29.5x17x21
8451701	CP-CAT40A	210	95	10	15	67	130	100	3.6	3.8	22x11.5x14
8451801	CP-CAT50A	275	113	20	24	105	200	150	10.8	11.2	29.5x17x21

Taper Wiper BT Type

清潔棒 BT型

Cleaning chips of taper wiper is made of lambskin. It can clean inside slides of spindles to prevent static electricity and to extend the longevity of spindles and tapers.

清潔棒的清潔片由小羊皮製成，可清理主軸內部，不傷主軸，防止靜電產生，延長主軸使用壽命。



Code NO. 型號	TYPE 規格	Taper 斜度	N.W. 淨重(kg)	G.W. 毛重(kg)	Shipment Size 裝箱尺寸(cm)	Remarks(Pcs/Ctn) 備註(支/箱)
STT0001	W-30	#30	0.06	0.08	41x29.5x20	30
STT0002	W-40	#40	0.07	0.10	41x29.5x20	30
STT0003	W-50	#50	0.16	0.20	41x29.5x20	10
STT0004	W-30P	#30	0.06	0.08	41x29.5x20	30
STT0005	W-40P	#40	0.07	0.10	41x29.5x20	30
STT0006	W-50P	#50	0.16	0.20	41x29.5x20	10

Taper Wiper HSK Type

清潔棒 HSK型

Cleaning chips of taper wiper is made of lambskin. It can clean inside slides of spindles to prevent static electricity and to extend the longevity of spindles and tapers.

清潔棒的清潔片由小羊皮製成，可清理主軸內部，不傷主軸，防止靜電產生，延長主軸使用壽命。



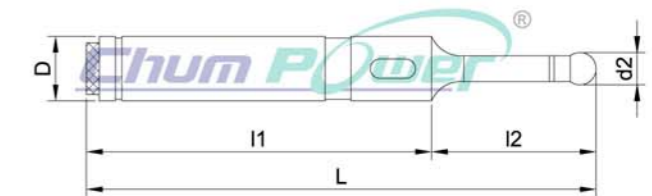
Code NO. 型號	TYPE 規格	Model No. 型式	N.W. 淨重(kg)	G.W. 毛重(kg)	Shipment Size 裝箱尺寸(cm)	Remarks(Pcs/Ctn) 備註(支/箱)
STT0007	W-HSK40A	HSK40	0.08	0.10	41x29.5x20	30
STT0008	W-HSK50H	HSK50/HSK63F	0.08	0.12	41x29.5x20	10
STT0010	W-HSK63H	HSK63/HSK80F	0.10	0.13	41x29.5x20	10
STT0011	W-HSK100H	HSK100	0.54	0.7	41x29.5x20	3

Optical Edge Finder

光電式尋邊器

- Quickly locate work edges and save time to find positions for Milling, Lathe Machine, and other machines.
- The scope of application includes processing material edge, and measuring inside and outside diameters of work-piece efficiently.
- There is a safety spring puller, which will put a ball precisely back to the position when ball breaks away from ball seat.
- Attached 2 dry batteries to light the red lamp.

- 迅速的找出工作位置，對於銑床、車床、及其他機械設備，都能有效節省尋找位置所需時間。
- 可應用於加工件邊及內、外徑之高效率量測。
- 當鋼珠脫離時，有一個安全彈簧可精確的將其拉回原來的位。
- 附2枚1.5V鹼性乾電池



Code NO. 型號	TYPE D 規格	d2	L	l1	l2
84630	20	10	158	108	50
84631	32	10	158	108	50
84632	3/4"	0.4"	158	108	50
84633	1 1/4"	0.4"	158	108	50



ER Spanner

ER 板手



Code NO. 型號	Spec. 規格	A	L
80072-08	ER8S	13	75
80072-09	ER11S	17	95
80072-10	ER16S	22.5	118
80072-11	ER20S	28	130
80072-12	ER25S	36.5	135



Code NO. 型號	Spec. 規格	A	L
8007201-01	ER11H	35	130
8007200-02	ER16H	44	140
8007200-03	ER20H	53	170



Code NO. 型號	Spec. 規格	A	L
8007200-04	ER25B	65	210
8007200-05	ER32B	75	250
8007201-06	ER40B	90	290
8007200-07	ER50B	110	350

Hook Wrench

勾板手



Code NO. 型號	Spec. 規格	A	L
8020000-05	C20	-	227
8020000-10	C25	-	227
8020000-15	C32	-	260
8020000-20	C42	-	270

NUT

螺帽



Code NO. 型號	Spec. 規格	H	D	G	Spanner No. 扳手編號
80071-01	ER 11-H	12	19	M14x0.75P	8007201-01
80071-02	ER 16-H	19	25	M22x1.5P	8007200-02
80071-03	ER 20-H	19	34	M25x1.5P	8007200-03



Code NO. 型號	Spec. 規格	H	D	G	Spanner No. 扳手編號
80071-04	ER 25-B	20	42	M32x1.5P	8007200-04
80071-05	ER 32-B	24	50	M40x1.5P	8007200-05
80071-06	ER 40-B	25	63	M50x1.5P	8007201-06
80071-07	ER 50-B	35	78	M64x2.0P	8007200-07



Code NO. 型號	Spec. 規格	H	D	G	Spanner No. 扳手編號
80071-08	ER 8-S	10.8	12	M10x0.75P	80072-08
80071-09	ER 11-S	12	16	M13x0.75P	80072-09
80071-10	ER 16-S	18	23	M19x1.0P	80072-10
80071-11	ER 20-S	19	28	M24x1.0P	80072-11
80071-12	ER 25-S	20	35	M30x1.0P	80072-12



Code NO. 型號	Spec. 規格	H	D	G	Spanner No. 扳手編號
80071-61	SK 6	16.5	19.5	M15xP1.0	80072-S1
80071-58	SK10	20	30	M21.5xP1.0	80072-S2
80071-60	SK16	30	40	M32xP1.5	80072-S3



Code NO. 型號	Spec. 規格	H	D	SW	G	Spanner No. 扳手編號
80071-63	SK 6	10	19.5	17	M15xP1.0	-
80071-64	SK10	18	29	25	M21.5xP1.0	-
80071-55	SK16	24	40	36	M32xP1.5	-
80071-65	SK20	20	48.5	44	M40x1.5P	-
80071-66	SK25	22	55	53	M45x1.5P	-

GTS-306MC Induction Shrinking Unit

感應熱縮式刀把加熱器



APPLICATION:

- MODEL : GTS-306MC INDUCTION SHRINKING UNIT
- HEATING : INDUCTION
- POWER : 220VAC 50/60HZ
- RATED AMPERE : 20A
- POWER CONSUMPTION : 4KW
- DIMENSIONS : 292mm(W)X360mm(D)X610mm(H)
- SHRINKING PERIOD : 6~15 SEC.(Depend on the holder)
- INDUCTION HEAD ID : φ35mm
- HOLDER SUPPORT : HSK50/HSK63/HSK80/BT40/BT50(Optional)

- 機型: GTS-306MC燒結機+冷卻器
- 加熱方式: 電磁感應
- 電源: 220VAC 50/60HZ
- 額定電流: 20A
- 消耗電力: 4KW
- 尺寸: 292mm(W)X360mm(D)X610mm(H)
- 加熱時間: 6~15秒(因刀桿尺寸及廠牌不同而異)
- 加熱頭內徑: φ35mm
- 刀把形式: HSK50/HSK63/HSK80/BT40/BT50(依需求選配)

Code NO. 型號 SMD0001

冷卻器控制盒	COOLING UNIT
電源: 220VAC 50/60HZ	POWER: 220VAC 50/60HZ
適用空氣壓力: 2~5kgf/cm2	Operation air pressure range: 2~5kgf/cm2
冷卻定時器: 0~10分鐘	Cooling timer: 0~10min

GTS9000M Shrink-Fit

感應熱縮式刀把加熱器



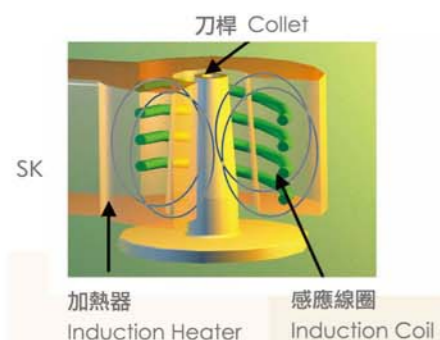
APPLICATION:

- MODEL:GTS9000M
- HEATING:INDUCTION
- POWER:220VAC 50/60HZ 3 Phase
- RATED AMPERE:27A
- POWER CONSUMPTION:10.0KW
- SHRINKING PERIOD:3SEC.
- INDUCTION HEAD ID:35mm
- HOLDER SUPPORT: HSK50/HSK63/HSK80/BT40/BT50(OPTIN)

- 機型:GTS9000M燒結機+冷卻器
- 加熱方式:電磁感應
- 電源:220VAC 50/60HZ 3Phase
- 額定電流:27A
- 消耗電力:10.0KW
- 加熱時間:3 SEC.(因刀桿尺寸及廠牌不同而異)
- 加熱頭內徑:35mm
- 刀把形式:HSK50/HSK63/HSK80/BT40/BT50(依需求選配)

Code NO. 型號 SMD0002

冷卻器控制盒	COOLING UNIT
電源: 220VAC 50/60HZ	POWER: 220VAC 50/60HZ
適用空氣壓力: 2~5kgf/cm2	Operation air pressure range: 2~5kgf/cm2
冷卻定時器: 0~10分鐘	Cooling timer: 0~10min



快速加熱原理

由加熱器內之感應線圈，產生高頻磁力使刀桿感應渦電流而直接發熱，不須熱風傳導，加熱迅速，提高您的換刀效率。

Fast heating principle

The unit without hot-air source. The eddy current give out heat from high frequency magnetic field. Shorter cycle time and easily operation.

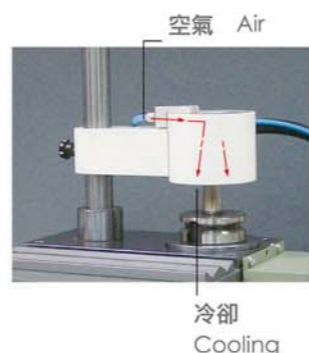


操作容易

刀桿被加熱到換刀溫度後，加熱器不發燙，讓您輕鬆換刀。

Higher efficiency

The collet will be given heat from magnetic field to avoid Induction heater too hot when user is changing cutter.

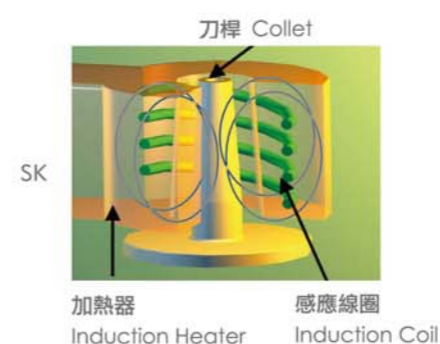


冷卻器功能說明

壓縮空氣由加熱器內緣，以環狀出口由上往下吹氣，以達到快速冷卻效果。

Cooling unit function

In the shrinking unit is with circular air outlet for cooling air from up side blow to down.



快速加熱原理

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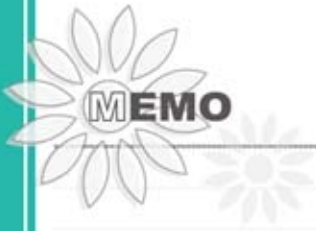


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Cooling unit function

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F

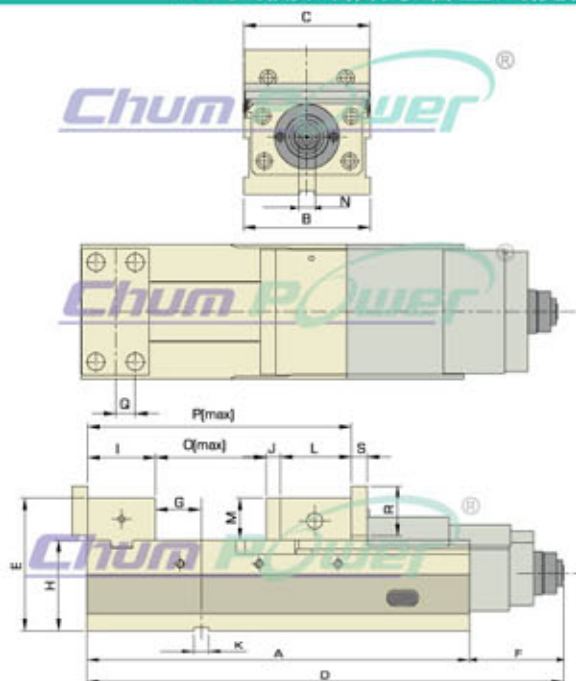
Vises System

虎鉗系統



CMO-160,200 G/HV MC Long Opening Power Vise

MC Power Vise MC 大開口倍力增壓式虎鉗



Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格																	夾持力 Weight (kg)				
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q		R	S		
VS01010	CMO-160G	515	161	159.2	635	168	120	76	115	86	18	18	80	53	19	330	514	25	63	20	57 KN	76	
VS01015	CMO-160HV																						
VS01020	CMO-200G	585	202	199.5	713	178	128	93	120	101	18	18	95	58	19	367.5	581.5	31	73	20	67 KN	108	
VS01025	CMO-200HV																						

G:一般 HV:立橫兩用 G:General HV:Horizontal and Vertical

APPLICATION

CMO Series is the newest large jaw opening vise of ChumPower. It also offers Lockwell Anti-Lift mechanism and force adjustable function. In order to increase vise life, the mechanism between Mechanical Booster and screw threads has been sealed to prevent the iron Chips and cutting fluid from soaking in.

FEATURES

- Large jaw opening:
CMO - 160G/HV, MAX 320mm
CMO - 200G/HV, MAX 345mm
- Bed height: tolerance 0.01mm or less.
- Distance from keyway to fixed jaw: tolerance 0.01mm or less.
- Distance from keyway to fixed jaw of CMO as same as the distance from keyway to fixed with an extra jaw of CMP.

應用

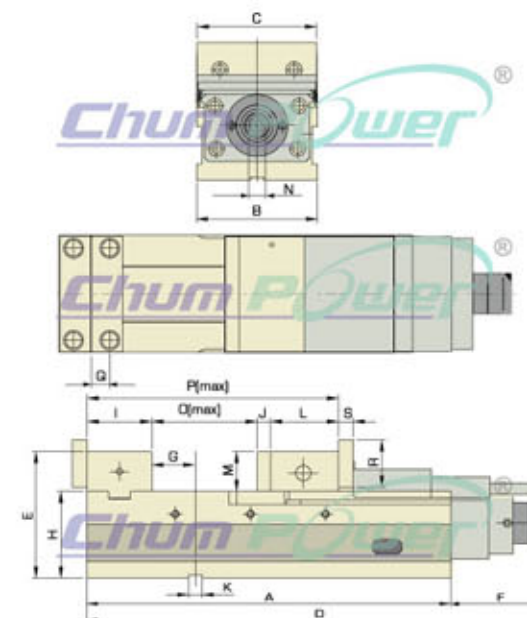
此為最新型的大開口虎鉗，同時具備向量式防止工件上浮功能以及調壓功能。倍力增壓機構和子螺桿之間以密封方式處理，防止鐵屑及切削液進入，增加虎鉗壽命。

特色

- 大開口：
CMO-160G/HV, MAX 320mm
CMO-200G/HV, MAX 345mm
- 床高：公差0.01mm以內。
- T型槽到固定顎的距離：公差0.01mm以內。
- CMO的T型槽到固定顎的距離等於CMP再加上鉗口後到T型槽的距離。

CMP-100,125,160,200 G/HV MC Precision Power Vise(Adjustable)

MC Power Vise MC 倍力可調壓式精密虎鉗(可調壓)



Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格																	夾持力 Weight (kg)				
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q		R	S		
VS02010	CMP-100G	324	104	102	428	130	104	41	85	73	15	18	86.5	45	14	140	314.5	20	55	17	25 KN	30	
VS02015	CMP-100HV																						
VS02020	CMP-125G	390	124.7	125	495	153	105	66	100	78	15	18	87.5	53	14	201	381.5	22.5	63	20	35 KN	46	
VS02025	CMP-125HV																						
VS02030	CMP-160G	485	159.2	159.5	605	168	120	58	115	86	18	18	80	53	14	295	479	25	63	20	45 KN	71	
VS02035	CMP-160HV																						
VS02040	CMP-200G	535	199.5	200	655	178	128	75	120	101	18	18	95	58	14	320	534	31	73	20	50 KN	100	
VS02045	CMP-200HV																						

G:一般 HV:立橫兩用 G:General HV:Horizontal and Vertical

APPLICATION

CMP Series is the earliest Power Vise of ChumPower which is also the first one to provide Mechanical Booster and adjustable pressure mechanism in Taiwan. The skillful products are made for MC machining center and have been sold around the world for decades.

FEATURES

- Jaw opening:
CMP-100G/HV, MAX 140mm/cm²
CMP-125G/HV, MAX 203mm/cm²
CMP-160G/HV, MAX 275mm/cm²
CMP-200G/HV, MAX 300mm/cm²
- Bed height:
tolerance 0.01mm or less
- Distance from keyway to fixed jaw: tolerance 0.01mm or less
- Distance of CMP, CMN, and CMW from keyway to fixed jaw is the same.
- Clamping force can be freely adjusted with the guidance of graduation lines.
- Clamping force:
CMP-100G/HV - 4,500kg/cm²
CMP-125G/HV - 5,000kg/cm²
CMP-160G/HV - 5,500kg/cm²
CMP-200G/HV - 6,500kg/cm²

應用

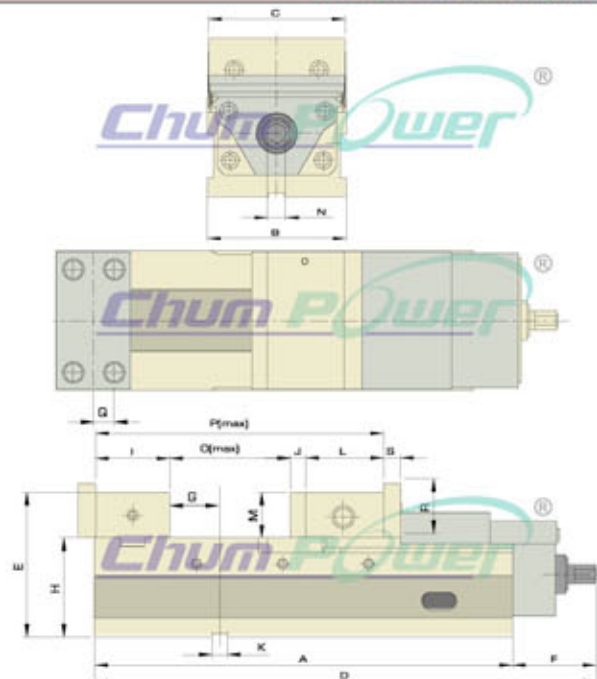
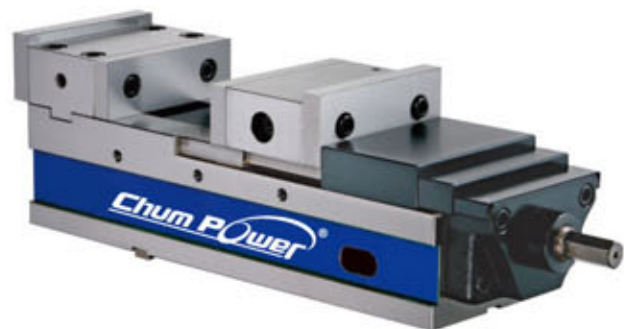
CMP系列是針對M/C模具加工最早設計開發的產品；行銷全世界數十年，技術純熟，更是台灣最早使用調壓機構的MC倍力增壓式精密虎鉗。

特色

- 開口：
CMP-100G/HV, MAX 140mm/cm²
CMP-125G/HV, MAX 203mm/cm²
CMP-160G/HV, MAX 275mm/cm²
CMP-200G/HV, MAX 300mm/cm²
- 床高：公差0.01mm以內。
- T型槽到固定顎的距離：公差0.01mm以內。
- CMP, CMN, CMW之T型槽到固定顎的距離均相同。
- 夾持力可依校準線自由調整。
- 夾持力：
CMP-100G/HV - 4,500kg/cm²
CMP-125G/HV - 5,000kg/cm²
CMP-160G/HV - 5,500kg/cm²
CMP-200G/HV - 6,500kg/cm²

CMW-100,125,160 G/HV MC Lockwell Vise(Anti-lift)

MC Power Vise MC 向量式精密虎鉗



Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格														Weight (kg)						
		A	B	C	D	E	F	G	H	I	J	K	L	M	N		O	P	Q	R	S	
VS05010	CMW-100G	324	104	102	437	130	104	41	85	73	15	18	86.5	45	19	140	314.5	20	55	17	27	
VS05015	CMW-100HV																					
VS05020	CMW-125G	390	127	125	480	153	105	66	100	78	15	18	87.5	53	19	201	381.5	22.5	63	20	43	
VS05025	CMW-125HV																					
VS05030	CMW-160G	485	161	159.5	625	168	120	76	115	86	18	18	80	53	21	295	479	25	63	20	71	
VS05035	CMW-160HV																					

G:一般 HV:立橫兩用 G:General HV:Horizontal and Vertical

APPLICATION

CMW Series is made for "mill and cut machining" and provides Lockwell Anti-Lift mechanism. It is to be aim at the workpiece which precision is important but does not require strong clamping force. The largest clamping force is about 2,000kg/cm².

FEATURES

- Jaw opening:
CMW - 100G/HV, MAX 140mm
CMW - 125G/HV, MAX 203mm
CMW - 160G/HV, MAX 275mm
- Bed height: tolerance 0.01mm or less.
- Distance from keyway to fixed jaw: tolerance 0.01mm or less.
- Distance of CMP, CMN, and CMW from keyway to fixed jaw is the same.

應用

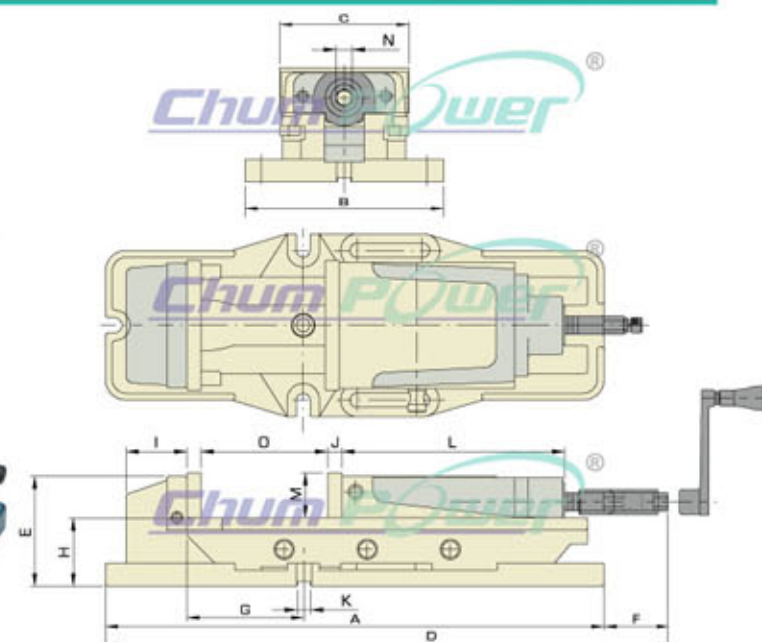
CMW系列是專為銑切削加工而設計，採用向量式原理防止上浮之專利設計，針對高精度加工卻不需強大夾持力的工件專用。最大夾持力可達2000kg/cm²。

特色

- 開口:
CMW-100G/HV, MAX 140mm
CMW-125G/HV, MAX 203mm
CMW-160G/HV, MAX 275mm
- 床高: 公差0.01mm以內。
- T型槽到固定顎的距離: 公差0.01mm以內。
- CMP, CMN, CMW之T型槽到固定顎的距離均相同。

CHL-50,60,80 MC Long Power Vise

Hydraulic Power Vise 倍力增壓式虎鉗



Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格											Weight (kg)
		A	B	C	D	E	F	G	H	I	J	M	
VS06010	CHL-50A	538	185	130	670	117	132	82	72	76	15	46	37
VS06015	CHL-50B												
VS06020	CHL-60A	620	340	154	800	132	180	140	82	82	17	54	57.5
VS06025	CHL-60B												
VS06030	CHL-80A	700	280	206	900	160	200	118	100	100	21	62	104
VS06035	CHL-80B												

A:無附轉盤 B:有附轉盤 A: Without Swivel Base B: Attached Swivel Base

APPLICATION

Mechanical Power vises are designed with an unique Ball design structure to furnish superior holding strength with powerful clamping forces to maximize processing accuracy. They are built with precise tolerance and accurate standards to ensure reliability and long durability.

FEATURES

- Mechanical Power Vises are rigidly constructed to give industry a truly dependable tool for milling, grinding, drilling, shaping and production as well as many other types of usage.
- Many tones of pressure can be applied to workpieces with little effort while operating the new Mechanical Power Vises, which will never loosen the grip on a workpiece by itself. Loosening can only be done manually.

應用

採用特殊鋼珠設計結構，提供強有力的夾持力，進而提高精度。並搭配精準公差及精確標準來確保可靠性及長時耐久性。

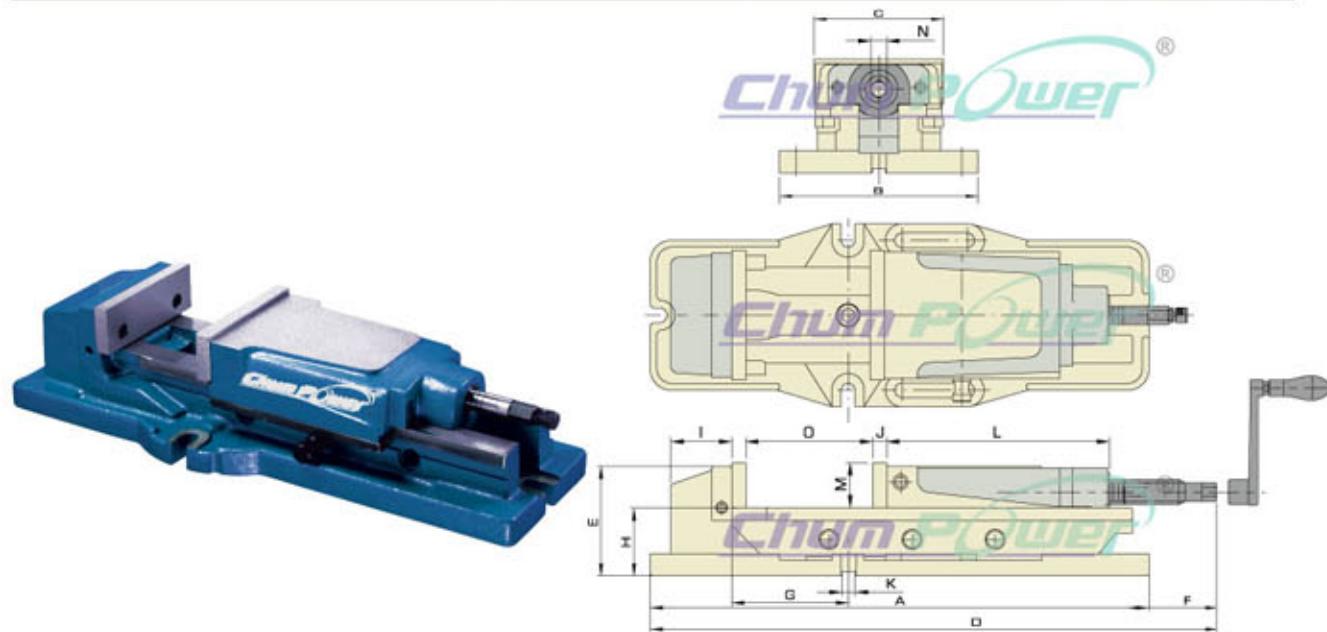
特色

- 穩固結構的機械增壓虎鉗給予業界一個值得信賴的工具來進行銑、研磨、鑽孔等加工，產量就如同其他型號之功能一樣。
- 僅需小操作力便可對工件施加不同壓力；除非用手動方式，否則在夾持過程中壓力絕不釋放。

CHD-40,50,60,80

Hydraulic Power Vise

Hydraulic Power Vise(Disc-Spring Mounted) 油壓內建式虎鉗



Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格											Clamping force(kg)	Weight (kg)
		A	B	C	D	E	F	G	H	I	J	M		
VS07010	CHD - 40A	435	160	104	525	93	90	53	58	76	11	36	2500	18
VS07015	CHD - 40B													
VS07020	CHD - 50A	538	185	130	670	117	132	82	72	82	15	46	3500	28
VS07025	CHD - 50B													
VS07030	CHD - 60A	620	240	154	800	132	180	140	82	81	17	54	4400	40
VS07035	CHD - 60B													
VS07040	CHD - 80A	700	280	206	900	160	200	118	100	101	21	62	6600	82
VS07045	CHD - 80B													

A:無附轉盤 B:有附轉盤 A: Without Swivel Base B: Attached Swivel Base

APPLICATION

CHD Series is the first Hydraulic Power Vise in Taiwan. The hydraulic booster provides a stable clamping force against shocks and vibrations during the operations, since it fastens the workpiece securely with the aid of the Disc-spring mounted inside.

應用

CHD系列為台灣首台增壓虎鉗。增壓器提供穩固的夾持力，藉由內建碟形彈簧的幫助將工件牢固並對抗操作時產生之震顫。

FEATURES

- Suitable for every machine center.
- Can be changed to non-Booster system.
- Unique design reduces the workpiece lift.
- The precision of the gang vise is better than that of any ordinary vise.

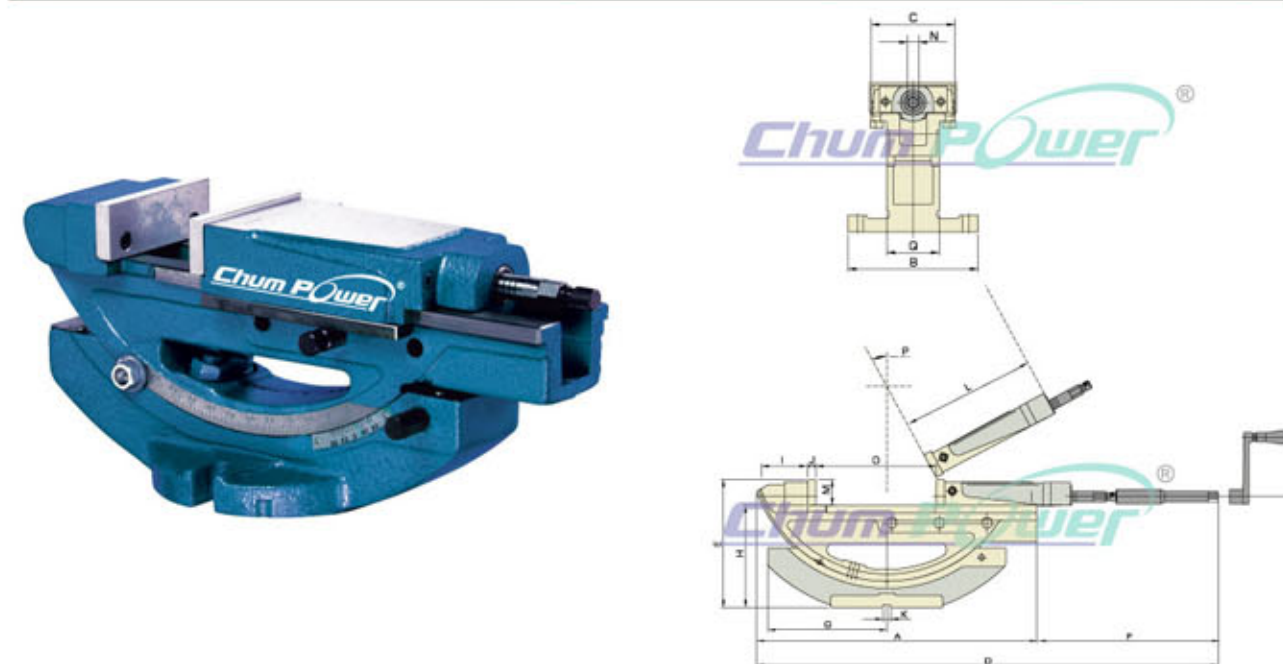
特色

- 適用於任一加工台。
- 可切換成非增壓模式。
- 特殊設計使工件上浮力降至最低。
- 精準度高於一般虎鉗。

CHA-40,60

Hydraulic Power Vise

Hydraulic Power Vise(Angular Setting) 油壓角度式虎鉗



Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格											Clamping force(kg)	Weight (kg)
		A	B	C	D	Angle E	F	G	I	J	K	M		
VS08010	CHA - 40A	330	160	104	525	50°	195	172	65	11	16	36	2500	28
VS08015	CHA - 40B													
VS08020	CHA - 60A	590	235	152	812	50°	222	250	97	15	16	54	4400	75
VS08025	CHA - 60B													

A:無附轉盤 B:有附轉盤 A: Without Swivel Base B: Attached Swivel Base

APPLICATION

CHA Series is different from other conventional vises. It not only follows the functions of CHD Series but also makes directional angular settings possible. The vertical angle can be set to preference from 0-50°. Precise angular setting in plane can be read from the mounted scale.

應用

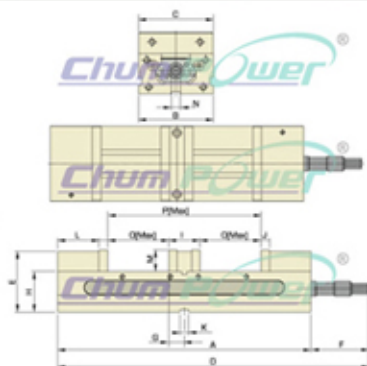
CHA不同於其他一般虎鉗，增壓虎鉗可在允許的方向設定做角度設定；角度依需求可在範圍0-50°設定，並可在內建刻度尺精確讀取所要的角度。

CDL-40,60 G/HV

Lockwell Durable Precision Vise

Double Clamp Vise

雙件式精密虎鉗

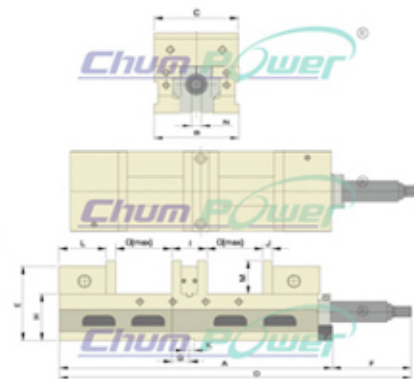
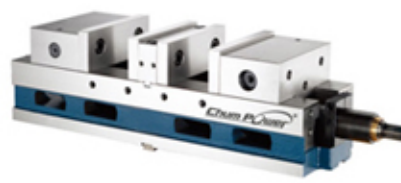


CDC-60 G/HV

2 in 1 Double Lockwell Clamping Vise

Double Clamp Vise

雙件式向量虎鉗



Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格														Weight (kg)		
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
V509010	CDL-40G																	
V509015	CDL-40HV	405	104	102	459	96.5	54	27.5	63.5	55	15	18	69	38	14	90	235	20
V509020	CDL-60G																	
V509025	CDL-60HV	520	154	152	536	124.05	16	33	82.55	66	18	18	86.5	44.5	19	125	316	52

Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格														Weight (kg)	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
V510010	CDC-60G																
V510015	CDC-60HV	497	154	152	610	143	113	32	90	64	17	18	86.5	58	14	34-102	63.5

G:一般 HV:立種高用 G:General HV:Horizontal and Vertical

APPLICATION

CDL can increase the efficiency and productivity of CNC machine. It is exclusively designed with combination of machine fixed jaw and movable jaw.

FEATURES

- Productivity - multiple parts work-holding for better spindle utilization and reduced tool change time.
- Accuracy - repeadable clamping to ± 0.015 mm.
- Durability - 80,000 PSI (FCD 60) ductile iron.
- Clamping force equalization and Anti-Lift mechanism.
- The CDL features the ability to clamp dissimilar sized parts and provides preloading ability in the front or back jaw.
- Double clamp seat: U.S.A. patent no.5374040.

應用

CDL虎鉗獨特的設計結合機械固定顎及活動顎，增加CNC機台效率及產量。

特色

- 生產率-多功零件夾持，使軸心更完善的使用，減少工具轉換時間。
- 準確性-夾持彈性於0.015mm左右。
- 耐久性-80000 PSI 高延展性鑄鐵。
- 自動補償機構及防止上浮機構。
- CDL著重於夾持不同尺寸之零件，並提供前後預預先輸入的功能。
- 雙夾座：U. S. A. 專利號碼5374040。

APPLICATION

CDC Series, Double Clamp Vises, increase the productivity and save the cost by the ability to hold two workpieces in each clamp. This design has two patents and the precise accuracy which is over the market standard.

FEATURES

- Double Clamp: each clamp can be adjusted freely and hold two dissimilar workpieces in the same time.
- Clamping force equalization: same force to two workpieces in different size.
- Patented Lockwell Anti-Lift mechanism: ensure the workpiece does not lift.
- 80,000 PSI (FCD 60) ductile iron body, HRC45° flame hardened bed and jaw.

應用

CDC系列擁有雙夾座、雙專利設計，能在同時夾持兩不同尺寸之工件，增加生產量又節省成本。

特色

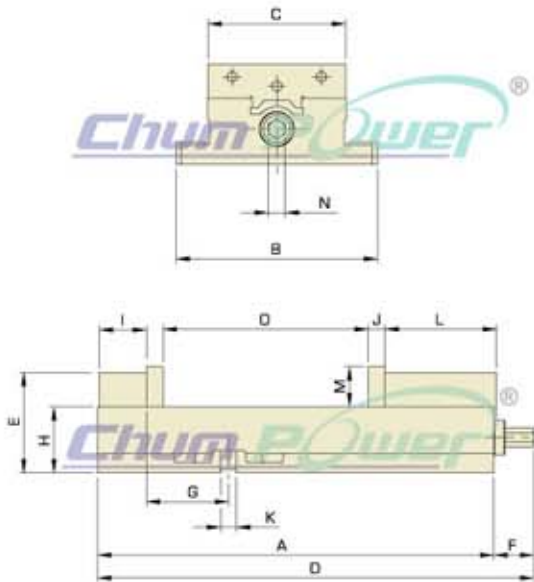
- 雙夾座：雙開口可自由調整並同時加工不同尺寸之工件。
- 自動補償機構：不同大小工件，可在同時夾緊，且夾持力相同。
- 專利向量原理防止上浮機構，確保工件不上浮。
- 80,000 PSI高延展性鑄鐵本台及HRC 45° 硬化熱處理床面與鉗口。

CLD-40,50,675,689,810

Lock-down Jaw Mechanical Vise

Mechanical Vise

角固鎖壓式虎鉗

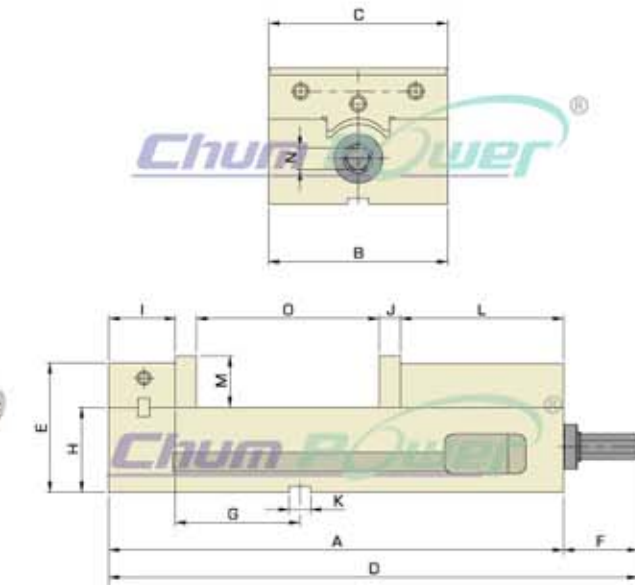


CLA-40,60 G/HV

Angle-Lock Appose Machine Vise

Mechanical Vise

角固並排式虎鉗



Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格														Weight (kg)
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	
VS11010	CLD - 40A	312.5	166	102	352.5	85.65	40	71	57.15	35.1	15	12	102	35	14	18
VS11015	CLD - 40B															
VS11020	CLD - 50A	368	194	126	404	97	36	85	63.5	40.5	17	16	120	38.1	16	25
VS11025	CLD - 50B															
VS11030	CLD - 675A	432	235	151	476	111.025	44	108	73.025	52	18	17.48	123	44.5	19	36
VS11035	CLD - 675B															
VS11040	CLD - 689A	437	222	151	585	134.074	30	25.7	73.025	52	18	17.48	123	44.5	19	36.3
VS11045	CLD - 689B															
VS11050	CLD - 810A	555	295	206	585	134.074	30	125.7	84.074	38	24.2	20.65	159	56	19	68.2
VS11055	CLD - 810B															

A:無附轉盤 B:有附轉盤 A:Attached Swivel Base B:Without Swivel Base

CLD-40,50,675 FEATURES

- A 7-1/2" jaw opening.
- Bed height: 2.875" ±0.0005"

CLD-689 FEATURES

- Large 8.9" jaw opening.
- Spindle nut does not protrude past the end of body.
- Have same imprints as the CLD-675.
- Have same distance from keyway to fixed jaw like the CLD-675.
- Exceeds CLD-675 in clamp force by 20%.

CLD-810 FEATURES

- CLD-810 is an updated version of the CLD-80, with a larger jaw opening and a steadier body.
- Large 10" jaw opening.
- Bed height: 3.310" ±0.0005"
- 11,600 lbs clamp force.

CLD-40,50,675 特色

- 7-1/2"開口。
- 床高2.875" ±0.0005"。

CLD-689 特色

- 8.9"大開口。
- 齒條不在鉗身外延伸。
- 軌跡同CLD-675。
- T型槽到固定顎的距離同CLD-675。
- 比CLD-675更多出20%夾持力。

CLD-810 特色

- 新型CLD-810是由CLD-80進化而成，其開口加大且本台穩定度更高。
- 10"大開口。
- 床高：3.310" ±0.0005"
- 11,600 lbs 夾持力。

Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格														Weight (kg)	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N		O
VS12010	CLA-40G	330	105	102	372	100	42	82.6	68	46.8	21	18	106	40	14	125	21
VS12015	CLA-40HV																
VS12020	CLA-60G	390	154	151	455	111	65	123	73	57	18	18	140	44.5	19	148	36.5
VS12025	CLA-60HV																

G:一般 HV:立橫兩用 G:General HV:Horizontal and Vertical

APPLICATION

CLA Series is the earliest vise that can be vertical or on either side. Enhanced body structure reduces the deflection in operation while the vise mounted vertical or horizontal.

FEATURES

- The system ensures the workpiece does not lift.
- 80,000 PSI (FCD 60) ductile iron body. HRC45⁺ flame hardened vise bed and jaw.
- Footprint and distance from keyway to fixed jaw as same as competition.
- Sealed bearing system reduces clamping pressure and increases bearing life.
- Fixed jaw has machined keyway for alignment of the vise and includes alignment rail for quick setups.

應用

CLA系列為最早的立、橫兩用式虎鉗。本台主結構強化，以減少立、橫式加工時的變形量。

特色

- 降低工件上浮力。
- 本台使用80,000 PSI (FCD - 60)高延展性鑄鐵。硬化床面及鉗口。
- 軌跡及T型槽到固定顎的距離與市場競爭相同。
- 密封的軸承系統減少夾持力並增加軸承壽命。
- 固定顎擁有機械製T型槽以校準，亦提供校準軌以快速安裝。

CLM-60 G/HV, CLR-60 G/HV

Multi-function Machine Vise (Vertical/ Horizontal) 多功能立/橫鎖壓式虎鉗

Mechanical Vise



Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格																	Weight (kg)	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q		R
VS13010	CLM-60G	385	152.45	151	431.8	118.7	46.8	61.1	81	69.9	18	181	114.3	44.5	19	163	107.95	127	127	31
VS13015	CLM-60HV	385	152.45	151	431.8	118.7	46.8	61.1	81	69.9	18	181	114.3	44.5	19	163	107.95	127	127	31
VS13050	CLR-60G	385	152.45	151	431.8	118.7	46.8	61.1	81	69.9	18	181	114.3	44.5	19	163	107.95	127	127	31
VS13055	CLR-60HV	385	152.45	151	431.8	118.7	46.8	61.1	81	69.9	18	181	114.3	44.5	19	163	107.95	127	127	31

G:一般 HV:立橫兩用 G:General HV:Horizontal and Vertical

APPLICATION

Versatile Lock Vise is the standard single station CNC vise that most often used in the industry. The time proven design, features prevention of workpieces from bulging and offers an ultra-precision.

FEATURES

- Mounted vertical or horizontal is available.
- 80,000 PSI (FCD 60) ductile iron body. HRC45° flame hardened vise bed and jaw.
- Fixed jaw has machined keyway for alignment of the vise and includes alignment rail for quick setups.
- Bed height: 3.187"±0.0005"

應用

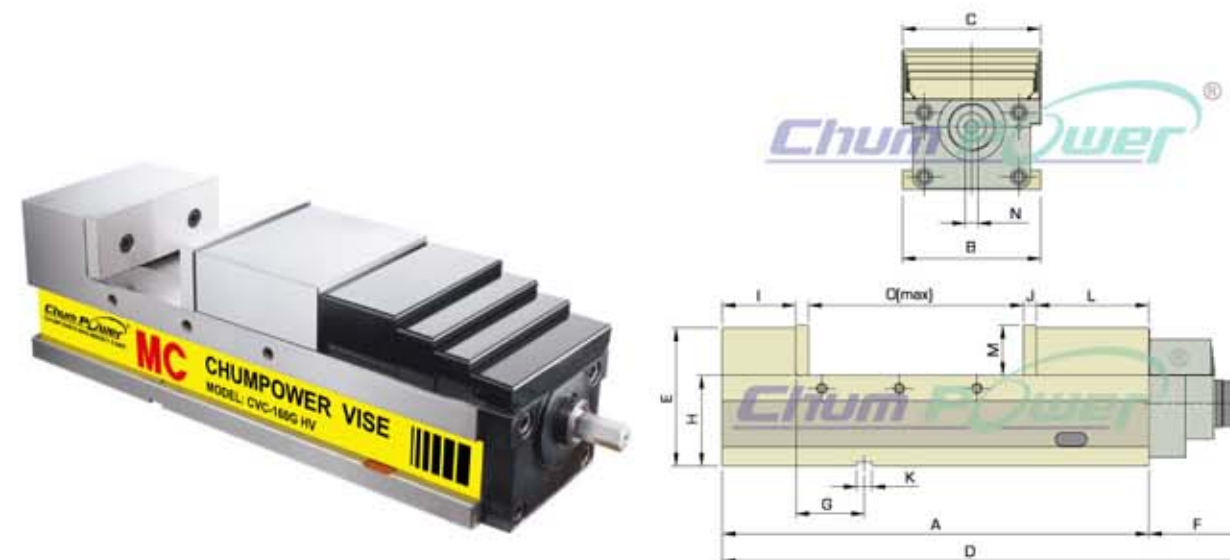
業界最基本的單機CNC虎鉗，強調防止工件上浮的功能，並提供高標準之精度。

特色

- 立、橫兩用式。
- 80,000 PSI (FCD 60)高延展性鑄鐵。
- 固定顎擁有機械製T型槽以供虎鉗校準，亦提供校準軌以快速安裝。
- 床高：3.187"±0.0005"。

CVC-160 G/HV

Wellock MC Mechanical Power Vise 角固式機械精密虎鉗

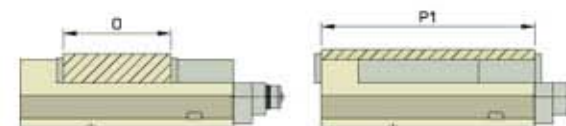


Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格																	Weight (kg)	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P1	P2		P3
VS14010	CVC - 160 G	495	161	160	576	160	81	80	105	85	15	18	130	58	19	250	250-480	250-370	250-330	55
VS14015	CVC - 160 HV	495	161	160	576	160	81	80	105	85	15	18	130	58	19	250	250-480	250-370	250-330	55

G:一般 HV:立橫兩用 G:General HV:Horizontal and Vertical

APPLICATION

CVC Series is the most suitable for Vertical and Horizontal Cutting Machining Center.

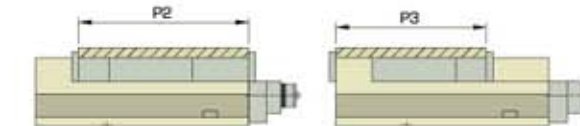


FEATURES

- Semi-spherical segment eliminate lifting while machining workpiece.
- FCD-60 (80,000 PSI) ductile iron body.
- Slide surface flame hardened to HS65° and maintains accuracy.
- Jaw plate use S50C material and flame hardened to HRC45°
- The design of dustproof can prevent iron scraps from inside of the vise; it can increase the longevity.

應用

CVC系列是專為立、臥式綜合切削加工機精密切削加工用，採用傳統角固式原理防止工件上浮。

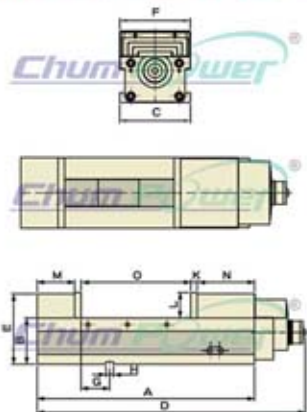


特色

- 角固式半圓球可產生角固下壓功能，防止工件上浮或偏斜。
- 本台使用高延展性鑄鐵FCD-60(80,000 PSI)以上，結構紮實，耐性佳。
- 本台滑動面均經高週波硬化熱處理HS65°以上，強化耐磨性、長保精度。
- 鉗口為S50C材質，經滲碳熱處理使其硬度達HRC54°以上，強化耐磨性、長保精度。
- 獨特防屑設計，使其鐵屑容易排出虎鉗內外部，延長使用期限。

CVM-160 G/HV

Wellock MC Precision Mechanical Hydraulic Power Vise 角面式機密機械倍力增壓虎鉗

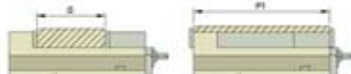


Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格																	Weight (kg)	
		A	B	C	D	E	F	G	H	I	J	K	L	M	O	P1	P2	P3		
VS15010	CVM-160 G	495	161	160	610	160	115	80	105	85	15	18	130	58	19	250	250-480	250-370	250-330	52
VS15015	CVM-160 HV																			

G:一般 HV:立機高用 G:General HV:Horizontal and Vertical

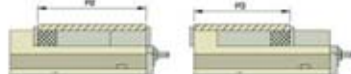
FEATURES

- Most suitable for VMC & HMC. It provides the patented design to adjust the clamping force.
- Mechanical Booster ensure the steady clamping force and inside Disc-Spring against shocks and vibrations while operation.
- Between Mechanical Booster and screw thread has sealed for preventing the chips and cutting fluid falling into.
- Semi-spherical segment eliminate lifting while machining.
- Ductile iron (FCD60~60kgs/mm2), (80,000 PSI) rigid and tensile vise body.
- Side surface flame hardened to H565° to maintain the accuracy.
- Jaw plate position has 4 different options to meet your need.
- The design of dustproof can prevent iron scraps from inside of the vise; it can increase the longevity.



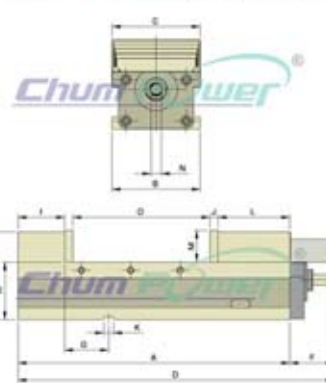
特色

- 角面式(WELLOCK)機密機械倍力增壓虎鉗，適用立/臥式綜合切削加工機做精密切削加工，並有專利設計可調整夾持力之大小。
- 倍力增壓機構使夾持力穩定度高，對抗操作時產生之震動；並且由內建之碟型彈簧增加吸震作用。
- 專利倍力機構且擁有密封式防止鐵屑與切削液滲入，以增加虎鉗壽命。
- 角面式(WELLOCK)半圓球可產生角面下鎖之力，可消除鉗口板上浮和工作傾斜。
- 虎鉗本台使用強而有力的高抗張拉力球狀石墨鑄鐵[FCD-60~60kgs/mm2)、(80,000 PSI)抗張力強，不易變形。
- 虎鉗本台滑動面均經高硬度硬化熱處理H565°以上，強化滑動面的耐磨性及精度。
- 虎鉗擁有四種不同的夾持開口應用位置來供客戶選擇。
- 獨特防屑與排屑設計，使其鐵屑容易排出虎鉗內部，延長使用期限。



CVM-160 G/HV

Wellock MC Precision Mechanical Hydraulic Power Vise 角面式機密機械倍力增壓虎鉗

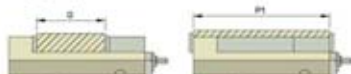


Code No. 型號	MODEL 機型	DIMENSIONS (mm) 規格																	Weight (kg)	
		A	B	C	D	E	F	G	H	I	J	K	L	M	O	P1	P2	P3		
VS15010	CVM-160 G	495	161	160	576	160	81	80	105	85	15	18	130	58	19	250	250-480	250-370	250-330	52
VS15015	CVM-160 HV																			

G:一般 HV:立機高用 G:General HV:Horizontal and Vertical

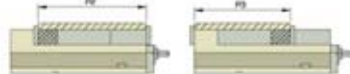
FEATURES

- Most suitable for VMC & HMC. It provides the patented design to adjust the clamping force.
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- Side surface flame hardened to H565° to maintain the accuracy.
- Jaw plate position has 4 different options to meet your need.
- The design of dustproof can prevent iron scraps from inside of the vise; it can increase the longevity.



特色

- 角面式(WELLOCK)機密機械倍力增壓虎鉗，適用立/臥式綜合切削加工機做精密切削加工，並有專利設計可調整夾持力之大小。
- 倍力增壓機構使夾持力穩定度高，對抗操作時產生之震動；並且由內建之碟型彈簧增加吸震作用。
- 專利倍力機構且擁有密封式防止鐵屑與切削液滲入，以增加虎鉗壽命。
- 角面式(WELLOCK)半圓球可產生角面下鎖之力，可消除鉗口板上浮和工作傾斜。
- 虎鉗本台使用強而有力的高抗張拉力球狀石墨鑄鐵[FCD-60~60kgs/mm2)、(80,000 PSI)抗張力強，不易變形。
- 虎鉗本台滑動面均經高硬度硬化熱處理H565°以上，強化滑動面的耐磨性及精度。
- 虎鉗擁有四種不同的夾持開口應用位置來供客戶選擇。
- 獨特防屑與排屑設計，使其鐵屑容易排出虎鉗內部，延長使用期限。





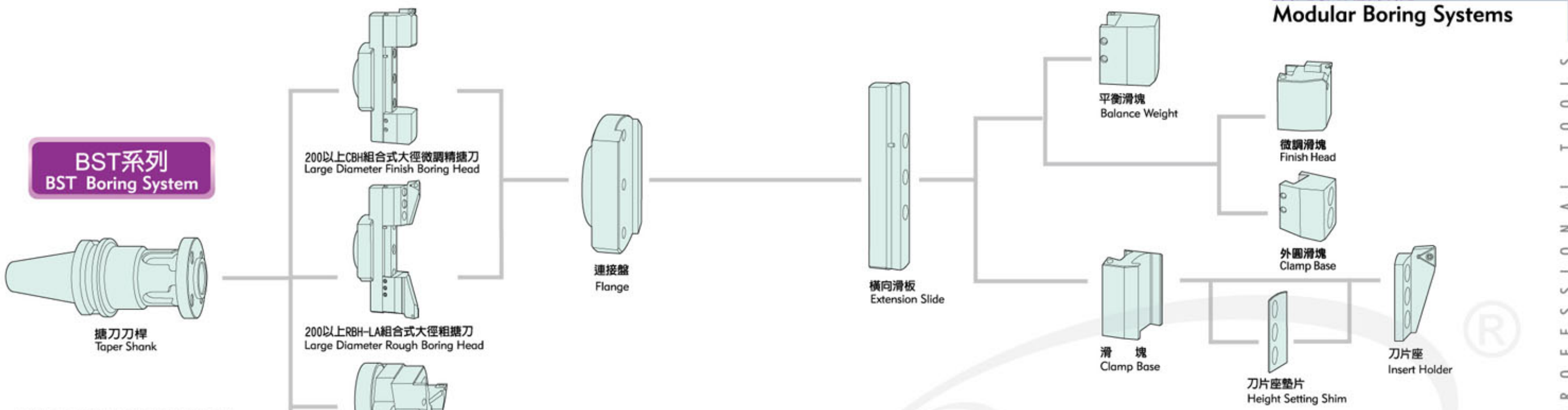
Boring Head System

搪刀系統

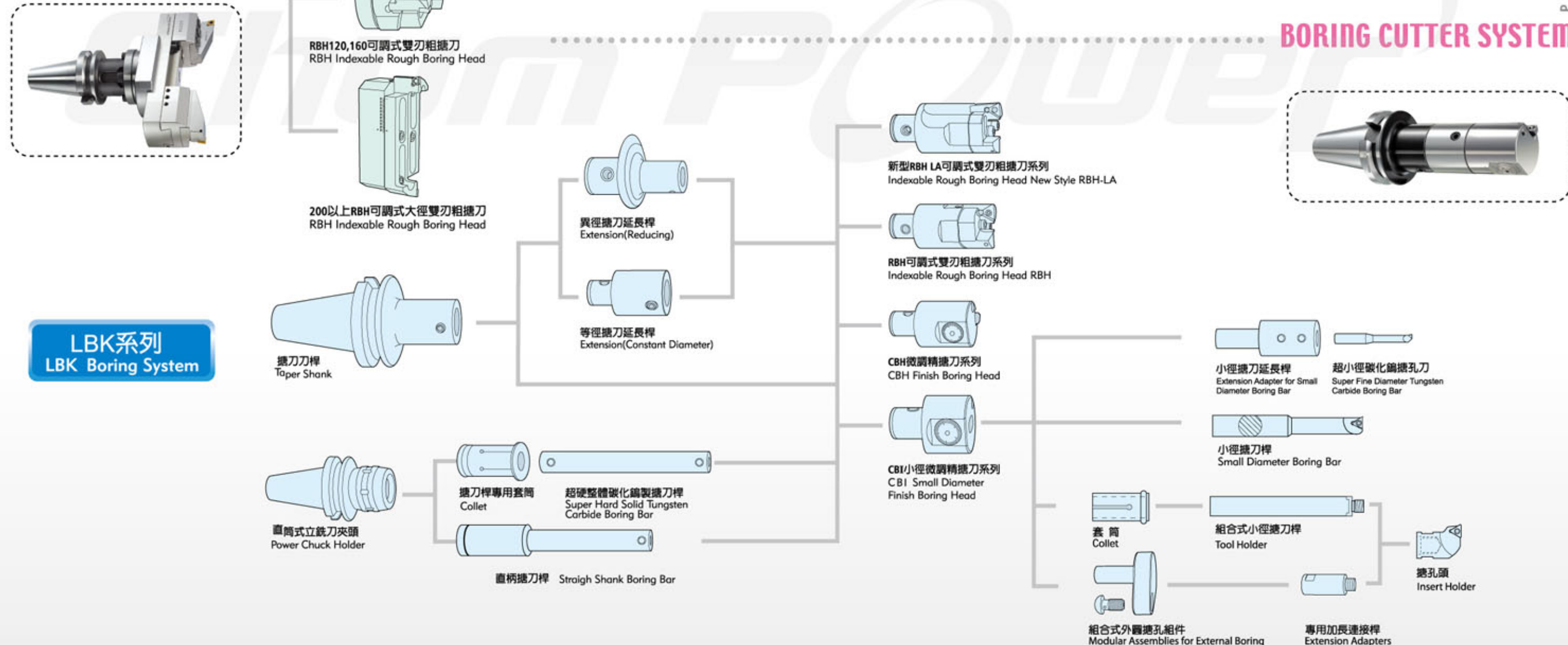


Makes Machine Tools Complete

搪刀搭配系統
Modular Boring Systems

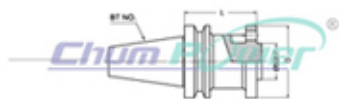


BORING CUTTER SYSTEM



搪刀刀桿 BST系列

Taper Shank for Boring Heads Series BST

BST系列
BST Series

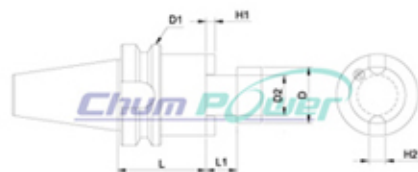
規格 Specifications:

型號 Code NO.	規格 TYPE	長度(L)mm Length	外徑(D)mm Extend Diameter	接合搪刀頭 Applicable Boring Heads	重量kg Weight
BT26102	BT40-BST-070L	70	95	RBH120以上 CBH200以上 大徑搪刀系列 RBH120 and above; CBH200 and above; large diameter boring heads series	3.2
BT26104	BT50-BST-100L	100			5.1
BT26106	BT50-BST-150L	150			6.8
BT26108	BT50-BST-200L	200			9.6
BT26110	BT50-BST-250L	250			11.5
BT26112	BT50-BST-300L	300			13.5
BT26114	BT50-BST-350L	350			15.5
BT26116	BT50-BST-400L	400			17.5

BT面銑式立銑刀把

BT FACE MILL HOLDER

BT Shank JIS B 6339(MAS 403 BT) with Face Mill DIN 6357



規格 Specifications:

型號 Code NO.	規格 TYPE	樣式 Fig.	長度(L)mm Length	外徑(D)mm Extend Diameter	接合搪刀頭 Applicable Boring Heads	重量kg Weight
BT06115	BT50-FMA47-625-75	3	75	128	RBH900LA, RBH900LA, CBH900, CBH900	7.0

Ø200以上RBH可調式大徑雙刃粗搪刀系列 (搪孔範圍 Ø200 - Ø500mm)

RBH Indexable Twin-bit Rough Boring Head (Boring Range from Ø200 - Ø500mm)

特色

- 適用單刃搪孔、雙刃搪孔及高低階搪孔。搪孔範圍Ø200~Ø500mm。
- 新型刀刃滑座設計，刀背補強。加工時，滑座承受的兩個作用力相互抵消，產生最大剛性和切削力。適合各形體的搪孔作業。
- 可依不同加工需求，輕易調整搪刀，做少量多樣的加工。備有多種長度刀桿可加工至所需深度。
- 清晰的側邊刻度，協助使用者輕易調整到所需的範圍，無須在刀具設定儀上預設。
- 最適合在各型切剛中心機或球床上配合使用，並可搭配各種廠牌相同規格的指定刀片，節省刀具研磨時間並大幅增加搪孔效率。
- 專利高低段差設計，平刃或高低刃均可採用。
- 直徑 Ø200mm以上大孔徑搪刀，使用直接組件，結構簡單剛性強，調整範圍為直徑100mm。

Features

- The head is suitable for single bit boring, twin-bit boring and step boring with working diameter from Ø200mm to Ø500mm on diameter.
- New cartridge style with built-up rib. The pressure imposed on both cartridges counteracts producing highest rigidity and cutting efficiency, most suitable for a variety of borings.
- Boring head can be easily adjusted to different boring needs for machining on demand. Boring depth can be extended by tool connection.
- Clear side division provides a convenient adjustment without using a tool pre-setter.
- Most suitable for boring on various machine centers or boring mills. Universal design accepts inserts of any brands, which will reduce tool grinding and greatly improve boring performance.
- Patented step boring design; suitable for both level boring and step boring.
- Boring heads over Ø200mm feature directmodule, simple structure and high rigidity with adjustment range 100 mm on diameter.



規格 Specifications:

型號 Code NO.	搪頭規格 Boring Head Type	接合型號 BST No.	搪孔範圍Dmm Boring Range	搪頭長度 L2 mm	刀片規格 Insert	重量 Weight	
SNG0061	RBH200-300-C	BST Series	200 - 300	95	CCMT120408	6.5	
SNG0062	RBH200-300-T				TCMT220408		
SNG0063	RBH200-300-S				SCMT120404		
SNG0067	RBH300-400-C		300 - 400		CCMT120408	10.0	
SNG0068	RBH300-400-T				TCMT220408		
SNG0069	RBH300-400-S				SCMT120404		
SNG0073	RBH400-500-C		400 - 500		95	CCMT120408	14.0
SNG0074	RBH400-500-T					TCMT220408	
SNG0075	RBH400-500-S					SCMT120404	

Chum Power®

Ø200以上RBH-LA組合式大徑粗搪刀系列《搪孔範圍Ø200 - Ø1250mm》

RBH-LA Large Diameter Modular Rough Boring Head with Diameter over Ø200mm (Boring Range from Ø200 - Ø1250mm)

特色

1. 通用Ø200~Ø1250mm大型孔徑加工使用。
2. 粗、精搪刀使用同基礎組件，且可另選配附件搭配使用。加工調整範圍為直徑110mm。600LA與900LA調整範圍為300mm。
3. 粗搪刀，具有多種刀片選擇，可適用於多種材質及加工方式。
4. 精搪刀另有鋁合金橫向滑板，可選用來降低刀具重量。



Features

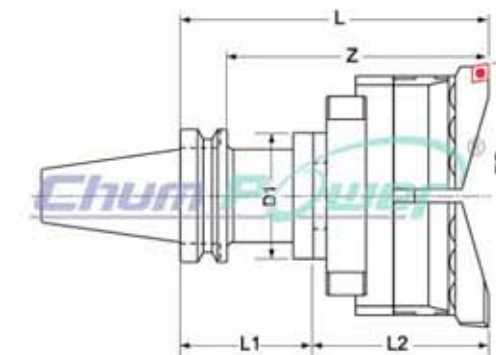
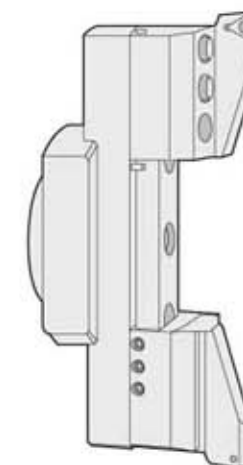
1. This type is suitable for large diameter boring with ranges from Ø200 mm to Ø1250 mm.
2. The structure includes common flange and extension slide for both rough and finish boring heads. Available can be optional accessories for different works. Adjustment range is within 110mm on diameter. The adjustment range for both 600LA and 900LA is 300mm.
3. Options of various inserts for rough boring of different materials and boring styles.
4. Available is the horizontal slide made of Aluminum alloy to reduce total weight.

規格 Specifications:

搪頭型號 Boring Head Type	型號 Type	RBH 200LA	RBH 300LA	RBH 400LA	RBH 500LA	RBH 600LA	RBH 900LA	
	長度 Length(mm)		130	130	130	130	150	150
整組重量(kg) Total Weight(kg)	合金鋼 Alloy Steel	9.5	11.5	13.5	15.5	33	47	
	鋁合金 Aluminum Alloy	7.2	8.0	8.8	9.6	16.0	22.3	
加工直徑 D(mm) Boring Diameter		200-310	300-410	400-510	500-610	600-950	900-1250	
組合式 Module	接合刀桿 Taper Shank	BT50-BST / NT50-BST系列 BT50-BST / NT50-BST Series				BT50-FMA-47.625		
	連接盤 Flange	BR200				BR600	BR900	
	重量(kg) Weight	合金鋼 Alloy Steel	合金鋼 Alloy Steel 2.7 kg				19	29
		鋁合金 Aluminum Alloy					8.8	13.5
	橫向滑板 Extension Slide	RST200	RST300	RST400	RST500	RST300x 2只(pieces)	RST400x 2只(pieces)	
	重量(kg) Weight	合金鋼 Alloy Steel	3.4	5.4	7.4	9.4	10.8	14.8
		鋁合金 Aluminum Alloy	1.1	1.9	2.7	3.5	3.8	5.4
	滑塊 Clamp Base	RS200						
	重量(kg) Weight	0.98 kg						
	刀片座墊片 Height Setting Shim	RS201						
重量(kg) Weight	0.05 kg							
刀片座 Insert Holder	RB200C12	RB200T16	RB200T22	RB200S12				
適合刀片 Applicable Insert	CCMT120404	TCMT16T304	TCMT220404	SCMT120404				
重量(kg) Weight	0.68 kg							

Ø200以上RBH-LA組合式大徑粗搪刀系列《搪孔範圍Ø200 - Ø1250mm》

RBH-LA Large Diameter Modular Rough Boring Head with Diameter over Ø200mm (Boring Range from Ø200 - Ø1250mm)



型號 Code NO.	搪頭規格 Boring Head Type	接合型號 BST No.	搪孔範圍D mm Boring Range	搪頭長度 L2 mm	刀片規格 Insert	重量 Weight (kg)	
						合金鋼 Alloy Steel	鋁合金 Alloy
SNG0076	RBH200-310LA	BST Series	200~310	130	CCMT120408	9.5	7.2
SNG0077	RBH200-310LA	BST Series	200~310	130	TCMT16T304	9.5	7.2
SNG0078	RBH200-310LA	BST Series	200~310	130	TCMT220408	9.5	7.2
SNG0079	RBH200-310LA	BST Series	200~310	130	SCMT120404	9.5	7.2
SNG0080	RBH300-410LA	BST Series	300~410	130	CCMT120408	11.5	8.0
SNG0081	RBH300-410LA	BST Series	300~410	130	TCMT16T304	11.5	8.0
SNG0082	RBH300-410LA	BST Series	300~410	130	TCMT220408	11.5	8.0
SNG0083	RBH300-410LA	BST Series	300~410	130	SCMT120404	11.5	8.0
SNG0084	RBH400-510LA	BST Series	400~510	130	CCMT120408	13.5	8.8
SNG0085	RBH400-510LA	BST Series	400~510	130	TCMT16T304	13.5	8.8
SNG0086	RBH400-510LA	BST Series	400~510	130	TCMT220408	13.5	8.8
SNG0087	RBH400-510LA	BST Series	400~510	130	SCMT120404	13.5	8.8
SNG0088	RBH500-610LA	BST Series	500~610	130	CCMT120408	15.5	9.6
SNG0089	RBH500-610LA	BST Series	500~610	130	TCMT16T304	15.5	9.6
SNG0090	RBH500-610LA	BST Series	500~610	130	TCMT220408	15.5	9.6
SNG0091	RBH500-610LA	BST Series	500~610	130	SCMT120404	15.5	9.6
SNG0092	RBH600-900LA	FMA-47.625	600~900	150	CCMT120408	33.0	16.0
SNG0093	RBH600-900LA	FMA-47.625	600~900	150	TCMT16T304	33.0	16.0
SNG0094	RBH600-900LA	FMA-47.625	600~900	150	TCMT220408	33.0	16.0
SNG0095	RBH600-900LA	FMA-47.625	600~900	150	SCMT120404	33.0	16.0
SNG0096	RBH900-1250LA	FMA-47.625	900~1250	150	CCMT120408	47.0	22.3
SNG0097	RBH900-1250LA	FMA-47.625	900~1250	150	TCMT16T304	47.0	22.3
SNG0098	RBH900-1250LA	FMA-47.625	900~1250	150	TCMT220408	47.0	22.3
SNG0099	RBH900-1250LA	FMA-47.625	900~1250	150	SCMT120404	47.0	22.3



Ø200以上CBH組合式大徑微調精搪刀系列《擴孔範圍Ø200-Ø1250mm》

CBH Large Diameter Modular Finish Boring Head with Diameter over Ø200mm (Boring Range from Ø200-Ø1250mm)

特色

1. 適用Ø200~Ø1250mm大型孔徑加工使用。
2. 粗、精搪刀使用同基礎組件，且可另選配附件搭配使用。加工調整範圍為直徑110mm。CBH600與900調整範圍為300mm。
3. 精搪刀另有鋁合金橫向滑板，可選用來降低刀具重量。



Features

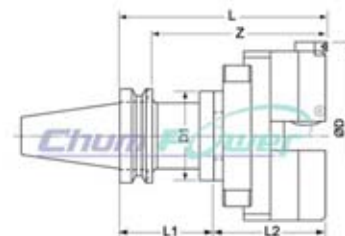
1. This type is suitable for large diameter boring with ranges from Ø200mm to Ø1250mm.
2. The structure includes common flange and extension slide for both rough and finish boring heads. Available can be optional accessories for different works. Adjustment range is within 110mm on diameter. The adjustment range for both CBH600 and CBH900LA is 300mm.
3. Available is the horizontal slide made of Aluminum alloy to reduce total weight.

規格 Specifications:

型號 Type	CBH200	CBH300	CBH400	CBH500	CBH600	CBH900	
長度 Length	130	130	130	130	150	150	
整組重量(kg) Total Weight(kg)	合金鋼 Alloy Steel	9.7	11.7	13.7	15.7	33	47
	鋁合金 Aluminum Alloy	7	7.8	8.6	9.4	15.8	22.1
加工直徑 D(mm) Boring Diameter	200-310	300-410	400-510	500-610	600-950	900-1250	
接合刀桿 Taper Shank	BT50-BST / NT50-BST 系列 BT50-BST / NT50-BST Series				BT50-FMA-47.625		
連接盤 Flange	BR200				BR600	BR900	
	合金鋼 Alloy Steel 2.7 kg				19	29	
重量(kg) Weight	合金鋼 Alloy Steel				8.8	13.5	
	鋁合金 Aluminum Alloy						
橫向滑板 Extension Slide	RST200	RST300	RST400	RST500	RST300x 2只(pieces)	RST400x 2只(pieces)	
	3.4	5.4	7.4	9.4	10.8	14.8	
重量(kg) Weight	1.1	1.9	2.7	3.5	3.8	5.4	
	鋁合金 Aluminum Alloy						
平衡滑塊 Balance Weight	RBN200						
重量(kg) Weight	1.6 kg						
微調滑塊 Finish Head	CB200						
重量(kg) Weight	1.6 kg						
適合刀片 Applicable Insert	TP08/M2.2/T7, TP09/M2.5/T8, TC11/M2.5/T8						

Ø200以上CBH組合式大徑微調精搪刀系列

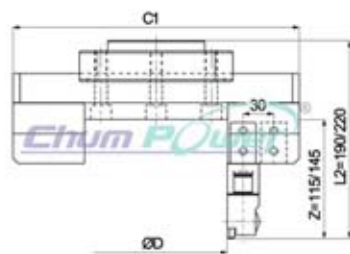
CBH Large Diameter Modular Finish Boring Head with Diameter over Ø200mm (Boring Range from Ø200-Ø1250mm)



型號 Code NO.	搪頭規格 Boring Head Type	接合型號 BST No.	擴孔範圍D mm Boring Range	總長度 L2 mm	刀片規格 Insert	重量 Weight (kg)	
						合金鋼 合金	鋁合金 鋁合金
SNG0100	CBH200	BST Series	200-310	130	TP08/M2.2/T7	9.7	7.0
SNG0101	CBH200	BST Series	200-310	130	TP09/M2.5/T8	9.7	7.0
SNG0102	CBH200	BST Series	200-310	130	TC11/M2.5/T8	9.7	7.0
SNG0103	CBH300	BST Series	300-410	130	TP08/M2.2/T7	11.7	7.8
SNG0104	CBH300	BST Series	300-410	130	TP09/M2.5/T8	11.7	7.8
SNG0105	CBH300	BST Series	300-410	130	TC11/M2.5/T8	11.7	7.8
SNG0106	CBH400	BST Series	400-510	130	TP08/M2.2/T7	13.7	8.6
SNG0107	CBH400	BST Series	400-510	130	TP09/M2.5/T8	13.7	8.6
SNG0108	CBH400	BST Series	400-510	130	TC11/M2.5/T8	13.7	8.6
SNG0109	CBH500	BST Series	500-610	130	TP08/M2.2/T7	15.7	9.4
SNG0110	CBH500	BST Series	500-610	130	TP09/M2.5/T8	15.7	9.4
SNG0111	CBH500	BST Series	500-610	130	TC11/M2.5/T8	15.7	9.4
SNG0112	CBH600	FMA-47.625	600-950	150	TP08/M2.2/T7	33.0	15.8
SNG0113	CBH600	FMA-47.625	600-950	150	TP09/M2.5/T8	33.0	15.8
SNG0114	CBH600	FMA-47.625	600-950	150	TC11/M2.5/T8	33.0	15.8
SNG0115	CBH900	FMA-47.625	900-1250	150	TP08/M2.2/T7	47.0	22.1
SNG0116	CBH900	FMA-47.625	900-1250	150	TP09/M2.5/T8	47.0	22.1
SNG0117	CBH900	FMA-47.625	900-1250	150	TC11/M2.5/T8	47.0	22.1

Ø200以上CBR組合式外圓微調精搪刀系列 (外圓搪孔範圍 Ø10 - Ø850mm)

CBR Modular External Finish Boring Head (Boring Range from Ø10 - Ø850mm)



Boring Head Type	型號 Type	SNG0241	SNG0242	SNG0243	SNG0244	SNG0245	SNG0246
	搪頭規格 Type	CBR200	CBR300	CBR400	CBR500	CBR600	CBR900
搪頭長度 L2(mm)		190/220					
有效長 Z(mm)		115/145					
整組重量(kg) Total Weight(kg)	合金鋼 Alloy Steel	9.7	11.5	13.5	15.5	33	47
	鋁合金 Aluminum Alloy	7	8	8.8	9.6	16	22.3
加工直徑 ØD(mm) Boring Diameter		10-150	10-250	10-350	10-450	10-550	10-850
組合式 Module	接合刀桿 Taper Shank	BT50-BST-100L				BT50-FMA-47.625	
	連接盤 Flange	BR200				BR600	BR900
	重量(kg) Weight	合金鋼 Alloy Steel 2.7 kg				19	29
						8.8	13.5
	橫向滑板 Extension Slide	RST200	RST300	RST400	RST500	RST300x 2只(pieces)	RST400x 2只(pieces)
	重量(kg) Weight	3.4	5.4	7.4	9.4	10.8	14.8
		1.1	1.9	2.7	3.5	3.8	5.4
	平衡滑塊 Balance Weight	RBN200					
	重量(kg) Weight	1.6 kg					
	外蓋滑塊 Clamp Base	HBR200					
重量(kg) Weight	1.3 kg						
外圓用接桿 Adapter for External Boring	C25-LBK3-30			C25-LBK3-60			
重量(kg) Weight	0.3			0.5			
接合刀頭 Applicable Boring Heads	CBH32						

WBST四方柄搪孔刀架

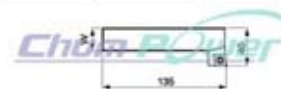
WBST Tool Rest



型號 Code NO.	搪孔刀架型號 Type	接合型號 LBK No.	搪孔範圍 ØD max-max External Diameter (mm)	搪頭長度 L2 Length(mm)	寬度C1 (mm)	□ W (mm)	重量 kg Weight
SNG0247	WBST1150	BST	150-250	55	125	25	2.5
SNG0248	WBST200		200-300		175		3.6
SNG0249	WBST300		300-400		275		6.0
SNG0250	WBST400		400-500		375		8.3

WBST刀盤專用四方柄搪刀

Square Shank Boring Tool holder for WBST Tool Rest



型號 Code NO.	型號 Type	□W (mm)	全長 L (mm)	適用刀片 Applicable Insert Holder	刀片螺絲 Clamp Screw	重量 kg Weight
SNG0251	BSB25-T16-135	25	135	TCMT16...	M4	0.67
SNG0252	BSB25-T22-135			TCMT22...	M5	
SNG0253	BSB25-C12-135			CCMT12...	M5	
SNG0254	BSB25-S12-135			SCMT12...	M5	

WBST刀盤專用四方柄外圓搪刀

Square Shank External Boring Tool holder for WBST Tool Rest



型號 Code NO.	型號 Type	□W (mm)	全長 L (mm)	加工深 A (mm)	適用刀片 Applicable Insert Holder	刀片螺絲 Clamp Screw	重量 kg Weight
SNG0255	EBSB25-T16-135-50	25	135	40	TCMT16T304	M4	0.8
SNG0256	EBSB25-C12-135-50				CCMT12040	M5	

WBST刀盤專用四方柄
內外圓精搪孔刀架

Internal & External Square Shank Finish Boring Tool Holder for WBST Tool Rest



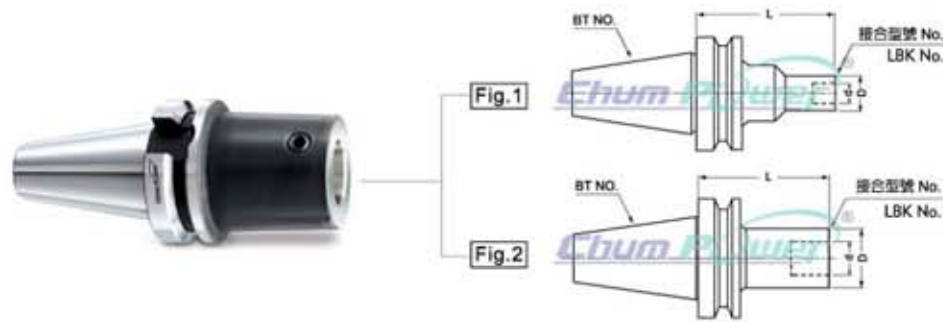
型號 Code NO.	型號 Type	□W (mm)	全長 L (mm)	加工深 A (mm)	適用搪頭 Applicable Boring Heads	適用刀片 Applicable Insert Holder	刀片螺絲 Length	重量 kg Weight
SNG0257	BSB25-LBK2-135	25	135	36	CBH25	TP08	M2.2	0.63

※此規格不含接刀頭 ※Boring head is not included.

搪刀刀桿 LBK系列

Taper Shank for Boring Heads Series LBK

LBK系列
LBK Series



規格 Specifications:

型號 Code NO.	規格 TYPE	樣式 Fig.	長度(L)mm Length	外徑(D)mm External Diameter	接合搪刀頭 Applicable Boring Heads	重量kg Weight
BT26002	BT30-LBK1-070L	2	70	19	CBH20	0.5
BT26004	BT30-LBK2-080L		80	24	RBH25; CBH25	0.6
BT26006	BT30-LBK3-080L		80	31	RBH32; CBH32	0.7
BT26008	BT30-LBK4-070L		70	39	RBH40; CBH40; CBI 4	0.8
BT26010	BT30-LBK5-060L		60	50	RBH52; CBH52; CBI 5	0.8
BT26012	BT30-LBK6-060L		60	64	RBH68; RBH90; CBH68; CBH100; CBH150; CBI6	1.0
BT26014	BT40-LBK1-075L	2	75	19	CBH20	1.0
BT26016	BT40-LBK1-105L		105	19	CBH20	1.2
BT26018	BT40-LBK2-085L		85	24	RBH25; CBH25	1.1
BT26020	BT40-LBK2-115L		115	24	RBH25; CBH25	1.4
BT26022	BT40-LBK3-095L		95	31	RBH32; CBH32	1.2
BT26024	BT40-LBK3-125L		125	31	RBH32; CBH32	1.5
BT26026	BT40-LBK3-155L		155	31	RBH32; CBH32	1.7
BT26028	BT40-LBK4-085L		85	39	RBH40; CBH40; CBI4	1.3
BT26030	BT40-LBK4-130L		130	39	RBH40; CBH40; CBI4	1.9
BT26032	BT40-LBK4-175L		175	39	RBH40; CBH40; CBI4	2.2
BT26034	BT40-LBK5-075L		75	50	RBH52; CBH52; CBI5	1.3
BT26036	BT40-LBK5-125L		125	50	RBH52; CBH52; CBI5	2.3
BT26038	BT40-LBK5-175L	175	50	RBH52; CBH52; CBI5	3.0	
BT26040	BT40-LBK6-065L	65	64	RBH68; RBH90; CBH68; CBH100; CBH150; CBI6	1.3	
BT26042	BT40-LBK6-115L	115	64	RBH68; RBH90; CBH68; CBH100; CBH150; CBI6	2.7	
BT26044	BT40-LBK6-165L	165	64	RBH68; RBH90; CBH68; CBH100; CBH150; CBI6	3.9	
BT26046	BT50-LBK1-115L	1	115	31/19	CBH20	4.0
BT26048	BT50-LBK1-145L		145	31/19	CBH20	4.1
BT26050	BT50-LBK2-110L		110	24	RBH25; CBH25	3.9
BT26052	BT50-LBK2-140L		140	24	RBH25; CBH25	4.0
BT26054	BT50-LBK3-125L		125	31	RBH32; CBH32	4.1
BT26056	BT50-LBK3-155L		155	31	RBH32; CBH32	4.2
BT26058	BT50-LBK4-115L		115	39	RBH40; CBH40; CBI4	4.3
BT26060	BT50-LBK4-145L		145	39	RBH40; CBH40; CBI4	4.4
BT26062	BT50-LBK4-175L		175	39	RBH40; CBH40; CBI4	4.8
BT26064	BT50-LBK4-205L		205	39	RBH40; CBH40; CBI4	4.9
BT26066	BT50-LBK5-105L	2	105	50	RBH52; CBH52; CBI5	4.5
BT26068	BT50-LBK5-180L		180	50	RBH52; CBH52; CBI5	5.5
BT26070	BT50-LBK5-240L		240	50	RBH52; CBH52; CBI5	6.2
BT26072	BT50-LBK5-300L		300	64/50	RBH52; CBH52; CBI5	7.6
BT26074	BT50-LBK6-095L		95	64	RBH68; RBH90; CBH68; CBH100; CBH150; CBI6	4.5
BT26076	BT50-LBK6-170L		170	64	RBH68; RBH90; CBH68; CBH100; CBH150; CBI6	6.3
BT26078	BT50-LBK6-230L	230	64	RBH68; RBH90; CBH68; CBH100; CBH150; CBI6	7.6	
BT26080	BT50-LBK6-290L	290	64	RBH68; RBH90; CBH68; CBH100; CBH150; CBI6	9.0	
BT26082	BT50-LBK6-350L	1	350	90/64	RBH68; RBH90; CBH68; CBH100; CBH150; CBI6	13.5
BT26084	IBT50-LBK6-350L	2	350	64	RBH68; RBH90; CBH68; CBH100; CBH150; CBI6	11.2

※IBT是專為抑制搪孔共振而改良之專用刀桿

RBH可調式雙刃粗搪刀系列《搪孔範圍 Ø25 - Ø204mm》

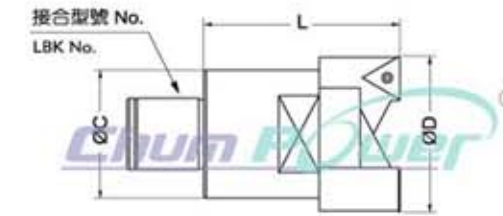
RBH Indexable Twin-bit Rough Boring Head (Boring Range from Ø25 - Ø204mm)

特色

- 適用單刃搪孔、雙刃搪孔及高低階搪孔。搪孔範圍Ø25-Ø204mm。
- 新型刀刃滑座設計，刀背補強。加工時，滑座承受的兩個作用力相互抵消，產生最大剛性和切削力。適合各形態的搪孔作業。
- 可依照各種不同加工需求，輕易調整搪刀，做少量多樣的加工。加工深度可配合延長桿延伸至所需長度。
- 清晰的側邊刻度，協助使用者輕易調整到所需的範圍，無須在刀具設定儀上預設。
- 最適合在各型切削中心機或搪床上配合使用，並可搭配各種廠牌相同規格的指定刀片，節省刀具研磨時間並大幅增加搪孔效率。
- 專利高低段差設計，平刃或高低刃均可採用。

Features

- The head is suitable for single bit boring, twin-bit boring and step boring with working diameter from Ø25mm to Ø204mm on diameter.
- New cartridge style with built-up rib. The pressure imposed on both cartridges counteracts producing highest rigidity and cutting efficiency, most suitable for a variety of borings.
- Boring head can be easily adjusted to different boring needs for machining on demand. Boring depth can be extended by tool connection.
- Clear side division provides a convenient adjustment without using a tool pre-setter.
- Most suitable for boring on various machine centers or boring mills. Universal design accepts inserts of any brands, which will reduce tool grinding and greatly improve boring performance.
- Patented step boring design; suitable for both level boring and step boring.



專利號碼 Patents
 (中國) ZL 02 2 08908.3
 (美國) ZL 01 2 32355.1
 Patent No. 188042
 (台灣) Patent No. 164277
 Patent No. 180593

規格 Specifications:

型號 Code NO.	搪頭規格 Boring Head Type	接合型號 LBK No.	搪孔範圍Dmm Boring Range	L mm	C mm	刀片規格 Insert	重量 kg Weight			
SNG0025	RBH25-33-C	LBK2	25~33	45	24	CCMT060204	0.15			
SNG0026	RBH32-42-C	LBK3	32~42	55	31	CCMT060204	0.3			
SNG0027	RBH32-42-T					TCMT110204				
SNG0028	RBH40-55-C	LBK4	40~55	65	39	CCMT09T304	0.5			
SNG0029	RBH40-55-T					TCMT16T304				
SNG0030	RBH40-55-S					SCMT09T304				
SNG0031	RBH52-70-C	LBK5	52~70	75	50	CCMT09T304	1			
SNG0032	RBH52-70-T					TCMT16T304				
SNG0033	RBH52-70-S					SCMT09T304				
SNG0034	RBH68-92-C	LBK6	68~92	85	64	CCMT120408	2			
SNG0035	RBH68-92-T					TCMT16T304				
SNG0036	RBH68-92-S					SCMT120404				
SNG0037	RBH90-122-C					CCMT120408		2.9		
SNG0038	RBH90-122-T					TCMT220408				
SNG0039	RBH90-122-S					SCMT120404				
SNG0040	RBH120-164-C	BST Series	120~164	95	100	CCMT120408	4.3			
SNG0041	RBH120-164-T					TCMT220408				
SNG0042	RBH120-164-S					SCMT120404				
SNG0043	RBH160-204-C					130		160~204	CCMT120408	5.3
SNG0044	RBH160-204-T								TCMT220408	
SNG0045	RBH160-204-S								SCMT120404	

新型RBH-LA可調式雙刃粗搪刀系列 《搪孔範圍Ø25 - Ø204mm》

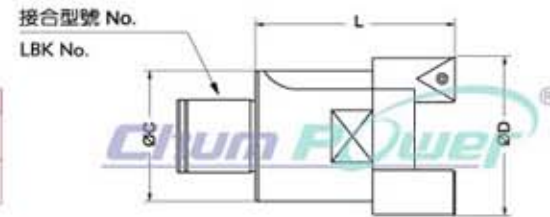
Indexable Twin-bit Rough Boring Head RBH-LA 《Boring Range from Ø25 - Ø204mm》

特色

1. 刀片支持座厚度增加，剛性增強。
2. 內藏式水孔，直接冷卻，刀片壽命長。
3. 排屑槽設計，增加深孔排屑功能。
4. 連接壓板使刀頭與刀座一體，增加切削剛性。
5. 獨特高低段差設計，平刃或高低刃均可採用。

Features

1. Thickened cartridge with higher rigidity.
2. Coolant nozzle easily cools the insert elongating its working life.
3. Completed with chip pocket, improving chip flow of deep boring.
4. Clamp plate solidifies cartridges and head, upgrading cutting rigidity.
5. Patented step boring design; suitable for both level boring and step boring.



專利號碼 Patents	
(中國)	ZL 02 2 08906.3
China	ZL 01 2 32355.1
(台灣)	Patent No.188042
Taiwan	Patent No.180593

規格 Specifications:

型號 Code NO.	搪頭規格 Boring Head Type	接合型號 LBK No.	搪孔範圍D mm Boring Range	L mm	C mm	刀片規格 Insert	重量 kg Weight				
SNG0046	RBH25-35LA-C	LBK2	25-35	50	24	CCMT060204	0.15				
SNG0047	RBH32-45LA-C	LBK3	32-45	60	31	CCMT060204	0.3				
SNG0048	RBH32-45LA-T					TCMT110204					
SNG0049	RBH40-55LA-C	LBK4	40-55	74	39	CCMT09T304	0.6				
SNG0050	RBH40-55LA-T					TCMT16T304					
SNG0051	RBH40-55LA-S					SCMT09T304					
SNG0052	RBH52-75LA-C	LBK5	52-75	80	50	CCMT09T304	1				
SNG0053	RBH52-75LA-T					TCMT16T304					
SNG0054	RBH52-75LA-S					SCMT09T304					
SNG0055	RBH68-100LA-C					LBK6		68-100	90	66	CCMT120408
SNG0056	RBH68-100LA-T	TCMT16T304									
SNG0057	RBH68-100LA-S	SCMT120404									
SNG0058	RBH90-130LA-C	90-130	100	88	CCMT120408		3.1				
SNG0059	RBH90-130LA-T				TCMT16T304						
SNG0060	RBH90-130LA-S				SCMT120404						
SNG0040	RBH120-164LA-C				BST Series	120-164		95	100	CCMT120408	4.3
SNG0041	RBH120-164LA-T	TCMT220408									
SNG0042	RBH120-164LA-S	SCMT120404									
SNG0043	RBH160-204LA-C	160-204	130	CCMT120408			5.3				
SNG0044	RBH160-204LA-T			TCMT220408							
SNG0045	RBH160-204LA-S			SCMT120404							

★RBH120LA,160LA與RBH120,160為相同產品 ★RBH120LA and RBH160LA are the same as RBH120 and RBH160 individually.

CBH微調精搪刀系列 《搪孔範圍Ø20 - Ø202mm》

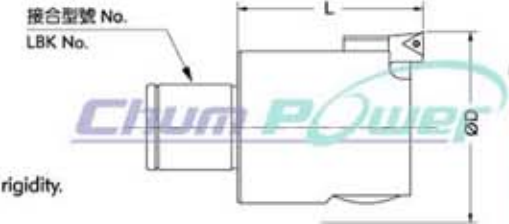
CBH Finish Boring Head 《Boring Range from Ø20 - Ø202mm》

特色

1. CBH精搪刀適用於精切削搪孔，工作範圍Ø20-Ø202mm均可搭配選用。
2. 調整刻度為圓周50等分，每格調整尺寸為直徑0.01mm，另有副尺可作更精細之調整。
3. 精密導程螺絲位於內部，不受切屑、磨耗、生鏽等影響，具有內部潤滑，精準耐用。
4. 內藏式水孔，刀尖直接冷卻，刀片壽命長。
5. 調整伸縮部為方型結構，雙支撐面固定，所以切削穩固且剛性大。

Features

1. CBH finish boring head is suitable for finish boring with working ranges from Ø20mm to Ø202mm on diameter.
2. The dial has been graduated into 50 divisions, each of which is 0.01 mm on diameter. Available is a sub-dial for finer adjustment.
3. High precision internal lead screw with inner lubrication is free from the effects of chip, featuring high durability.
4. Coolant nozzle easily cools the insert elongating its working life.
5. Cartridge unit is housed in a square structure with two face support, proving high stability and rigidity.



專利號碼 Patents	
(中國)	ZL 03 2 76491.X
China	ZL 03 2 08876.0
(台灣)	Patent No.217175
Taiwan	Patent No.221678

規格 Specifications:

型號 Code NO.	搪頭規格 Boring Head Type	接合型號 LBK No.	搪孔範圍ØD mm Boring Range	搪頭長度 mm Length	重量 kg Weight	刀片規格 / 螺絲 / 刀片扳手 Insert/Clamping Screw/Wrench
SNG0001	CBH20	LBK1	20-26	35	0.1	TB06/M2/T6
SNG0002	CBH20	LBK1	20-26	35	0.1	TP08/M2.2/T7
SNG0003	CBH20	LBK1	20-26	35	0.1	TC09/M2.2/T7
SNG0004	CBH25	LBK2	25-33	40	0.2	TB06/M2/T6
SNG0005	CBH25	LBK2	25-33	40	0.2	TP08/M2.2/T7
SNG0006	CBH25	LBK2	25-33	40	0.2	TC09/M2.2/T7
SNG0007	CBH32	LBK3	32-42	40	0.3	TB06/M2/T6
SNG0008	CBH32	LBK3	32-42	40	0.3	TP08/M2.2/T7
SNG0009	CBH32	LBK3	32-42	40	0.3	TC09/M2.2/T7
SNG0010	CBH40	LBK4	40-55	50	0.5	TB06/M2/T6
SNG0011	CBH40	LBK4	40-55	50	0.5	TP08/M2.2/T7
SNG0012	CBH40	LBK4	40-55	50	0.5	TC09/M2.2/T7
SNG0013	CBH52	LBK5	52-75	60	1	TP08/M2.2/T7
SNG0014	CBH52	LBK5	52-75	60	1	TP09/M2.5/T8
SNG0015	CBH52	LBK5	52-75	60	1	TC11/M2.5/T8
SNG0016	CBH68	LBK6	68-102	72	2	TP08/M2.2/T7
SNG0017	CBH68	LBK6	68-102	72	2	TP09/M2.5/T8
SNG0018	CBH68	LBK6	68-102	72	2	TC11/M2.5/T8
SNG0019	CBH100	LBK6	100-152	72	2.9	TP08/M2.2/T7
SNG0020	CBH100	LBK6	100-152	72	2.9	TP09/M2.5/T8
SNG0021	CBH100	LBK6	100-152	72	2.9	TC11/M2.5/T8
SNG0022	CBH150	LBK6	150-202	72	4.2	TP08/M2.2/T7
SNG0023	CBH150	LBK6	150-202	72	4.2	TP09/M2.5/T8
SNG0024	CBH150	LBK6	150-202	72	4.2	TC11/M2.5/T8
SNG0235	CBH100B	BST	100-152	95	3.7	TP08/M2.2/T7
SNG0236	CBH100B	BST	100-152	95	3.7	TP09/M2.5/T8
SNG0237	CBH100B	BST	100-152	95	3.7	TC11/M2.5/T8
SNG0238	CBH150B	BST	150-202	95	4.9	TP08/M2.2/T7
SNG0239	CBH150B	BST	150-202	95	4.9	TP09/M2.5/T8
SNG0240	CBH150B	BST	150-202	95	4.9	TC11/M2.5/T8



CBI小徑微調精搪刀系列《搪孔範圍Ø3 - Ø40mm》

Small Diameter Finish Boring Head Type CBI 《Boring Range from Ø3 - Ø40mm》

特色

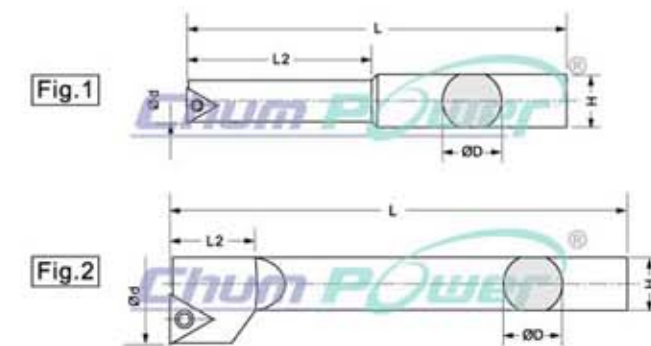
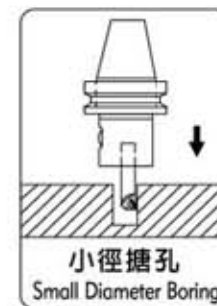
1. CBI小徑精搪刀有三種選擇，適用於Ø8-Ø40mm小孔徑使用，如使用全鎢鋼小徑搪刀桿可加工Ø3-Ø10mm小孔。
2. 調整刻度為週周50等分，每格調整尺寸為直徑0.01mm，另有副尺可作更精細之調整。
3. 精密導程螺絲位於內部，不受切屑、磨耗、生鏽等影響，具有內部潤滑，精準耐用。

Features

1. Available are three different styles enabling small diameter boring from Ø8mm to Ø40mm. Boring range can be within Ø3mm to Ø10mm if small diameter solid carbide boring bar has been employed.
2. The dial has been graduated into 50 divisions, each of which is 0.01mm on diameter. Available is a sub-dial for finer adjustment.
3. High precision internal lead screw with inner lubrication is free from the effects of chip, featuring high durability.

規格 Specifications:

型號 Code NO.	搪頭型號 Boring Head Type	接合型號 LBK No.	內置刀桿Ødmm Internal Diameter	外徑Ø D mm External Diameter	長度 Length	移動量 mm Feed	本體重量kg Weight
SNG0118	CBI 4	LBK4	10	39	32	0 - 2.0	0.4
SNG0119	CBI 5	LBK5	12	50	40	0 - 3.5	0.8
SNG0120	CBI 6	LBK6	16	64	50	0 - 5.0	1.4



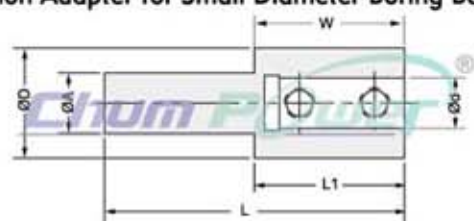
CBI4專用小徑搪刀桿BJ型《搪孔範圍Ø8-Ø24mm》

Fine Boring Bar Type BJ (for CBI 4) 《Boring Range Ø8 - Ø24mm》

型號 Code NO.	規格 Type	Fig.	ØD (mm)	Ød (mm)	L (mm)	L2 (mm)	H (mm)	刀片規格 Insert	螺絲 Clamp Screw	板手 Wrench
SNG0132	BJ1008-32	1	10	8	64	32	9	TB..0601..	M2	T6
SNG0133	BJ1010-40			10	72	40				
SNG0134	BJ1012-45			12	77	27				
SNG0135	BJ1016-45	2	10	16	77	27	9	TP..0902..	M2.5	T8
SNG0136	BJ1020-45			20	77	27				
SNG0137	※ BJ10-5PCS			BJ1008-32	BJ1010-40	BJ1012-45				

CBI系列專用小徑搪刀延長桿 AC型

Extension Adapter for Small Diameter Boring Bar Dedicated to CBI Series Type AC



型號 Code NO.	規格 Type	柄徑 Ø A(mm)	外徑 External Dia. ØD (mm)	內徑 Ø d(mm)	延伸長度 L1 (mm)	孔深 W (mm)	全長 Length L (mm)
SNG0121	AC1006-30	10	18	06	30	25	55
SNG0122	AC1206-35	12	22	06	35	25	65
SNG0123	AC1210-35	12	22	10	35	30	65
SNG0124	AC1606-35	16	16	06	35	25	85
SNG0125	AC1610-35	16	22	10	35	30	85

CBI5專用小徑搪刀桿BJ型《搪孔範圍Ø8-Ø27mm》

Fine Boring Bar Type BJ (for CBI5) 《Boring Range Ø8 - Ø27mm》

型號 Code NO.	規格 Type	Fig.	ØD (mm)	Ød (mm)	L (mm)	L2 (mm)	H (mm)	刀片規格 Insert	螺絲 Clamp Screw	板手 Wrench
SNG0138	BJ1208-32	1	12	8	64	32	9	TB..0601..	M2	T6
SNG0139	BJ1210-40			10	72	40				
SNG0140	BJ1212-45			12	77	45				
SNG0141	BJ1216-45	2	12	16	77	22	9	TP..0902..	M2.5	T8
SNG0142	BJ1220-45			20	77	25				
SNG0143	※ BJ12-5PCS			BJ1208-32	BJ1210-40	BJ1212-45				

CBI6專用小徑搪刀桿BJ型《搪孔範圍Ø8-Ø50mm》

Fine Boring Bar Type BJ (for CBI 6) 《Boring Range Ø8 - Ø50mm》

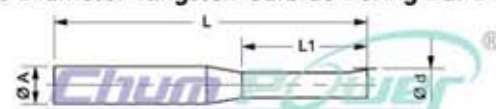
型號 Code NO.	規格 Type	Fig.	ØD (mm)	Ød (mm)	L (mm)	L2 (mm)	H (mm)	刀片規格 Insert	螺絲 Clamp Screw	板手 Wrench
SNG0144	BJ1608-32	1	16	8	74	32	15	TB..0601..	M2	T6
SNG0145	BJ1610-40			10	75	40				
SNG0146	BJ1612-53			12	85	53				
SNG0147	BJ1616-68			16	100	68				
SNG0148	BJ1620-83			20	115	83				
SNG0149	BJ1625-90	2	16	25	122	90	15	TP..0902..	M2.5	T8
SNG0150	BJ1630-90			30	122	90				
SNG0151	BJ1640-90			40	122	90				
SNG0152	※ BJ16-8PCS			BJ1608-32	BJ1610-40	BJ1612-53				

※表示盒裝包裝
※In Box Package

※切削加工時，小徑搪刀桿以3倍直徑伸出量為佳。
※Note: Outstretch of small diameter boring is better within 3 times of its diameter when in use.

CBI系列專用超小徑碳化鎢搪孔刀 SBJ型

Super Fine Diameter Tungsten Carbide Boring Bar Dedicated to CBI Series Type SBJ



型號 Code NO.	規格 Type	搪孔範圍 Boring Range			柄徑 ØA	有效長 Length L1 (mm)	總長 Total Length L (mm)	
		最小加工 直徑 Ød min	最大加工直徑 Ød max					
			CBI 4	CBI 5				CBI 6
SNG0126	SBJ0603-15	3	7	10	13	6	15	50
SNG0127	SBJ0604-20	4	8	11	14	6	20	50
SNG0128	SBJ0605-25	5	9	12	15	6	25	60
SNG0129	SBJ0606-30	6	10	13	16	6	30	60
SNG0130	SBJ1008-35	8	12	15	18	10	35	75
SNG0131	SBJ1010-40	10	14	17	20	10	40	75

碳化鎢組合式小徑搪刀桿專用套筒EC型

Collet for Tungsten Carbide small Diameter Modular Boring Bar Series Type EC

型號 Code NO.	規格 Type	外徑 D (mm)	內徑 D1 (mm)	適用鎢鋼刀柄 Applicable Carbide Tool Holder
SNG0153	EC1608	16	8	ST08, HC08
SNG0154	EC1610	16	10	ST10, HC10
SNG0155	EC1612	16	12	ST12, HC12
SNG0156	EC1614	16	14	ST14

碳化鎢組合式小徑搪刀桿ST型

Tungsten Carbide Small Diameter Modular Boring Bar Type ST



型號 Code NO.	規格 Type	全長 L (mm)	柄徑 D (mm)	結合牙 M (mm)	適用搪孔頭 Applicable Insert Holder	適用套筒 Applicable Bushing
SNG0157	ST08-W5-100L	100	8	M5	BE09A, BE10.5A	EC1608
SNG0158	ST10-W6-110L	110	10	M6	BE12A	EC1610
SNG0159	ST12-W6-120L	120	12		BE14A, BE16A	EC1612
SNG0160	ST14-W6-160L	160	14		BE16A	EC1614
SNG0161	ST16-W10-160L	160	16	M10	BE18A, BE20A, BE22A, BE24A, BE26A, BE28A, BE30A, BE32A, BE34A, BE36A, BE38A, BE40A	----

高速鋼組合式小徑搪刀桿HC型

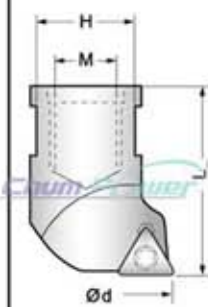
Modular H.S.S Fine Boring Bar Type HC

型號 Code NO.	規格 Type	全長 L (mm)	柄徑 D (mm)	結合牙 M (mm)	適用搪孔頭 Applicable Insert Holder	適用套筒 Applicable Bushing
SNG0162	HC08-M5-075	75	8	M5	BE09A, BE10.5A	EC1608
SNG0163	HC10-M6-095	95	10	M6	BE12A	EC1610
SNG0164	HC12-M6-115	115	12	M6	BE14A, BE16A	EC1612
SNG0165	HC12-M10-130	130	12	M10	BE18A, BE20A, BE22A, BE24A, BE26A, BE28A, BE30A, BE32A, BE34A, BE36A, BE38A, BE40A	----
SNG0166	HC16-M10-130		16			

組合式搪孔頭 BE 型 《搪孔範圍 Ø9-Ø50mm》

Modular Insert Holder Type BE 《Boring Range from Ø9 - Ø50mm》

型號 Code NO.	規格 Type	d (mm)	H (mm)	L (mm)	M (mm)	刀片規格 Insert	螺絲 Clamping Screw	扳手 Wrench
SNG0167	BE09A	9	7	18	M5	TP.0802..	M2.2	T7
SNG0168	BE10.5A	10.5						
SNG0169	BE12A	12	8	23	M6			
SNG0170	BE14A	14						
SNG0171	BE16A	16	14	27	M10			
SNG0172	BE18A	18						
SNG0173	BE20A	20						
SNG0174	BE22A	22						
SNG0175	BE24A	24						
SNG0176	BE26A	26						
SNG0177	BE28A	28						
SNG0178	BE30A	30						
SNG0179	BE32A	32						
SNG0180	BE34A	34						
SNG0181	BE36A	36						
SNG0182	BE38A	38						
SNG0183	BE40A	40						



CBR20, CBR30 組合式外圓搪孔組件 《搪孔範圍 Ø5-Ø52mm》

CBR20 · CBR30 Modular Assemblies for External Boring (Boring Range from Ø5 - Ø52mm)

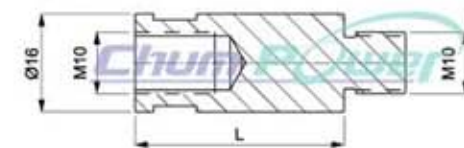


型號 Code NO.	規格 Type	搪孔頭 BE 型	外圓搪孔範圍 ØA (mm)	偏心距離 E (mm)	有效深 Z (mm)	柄徑 ØD (mm)	刀片規格					
SNG0258	C16-CBR20	BE36A	5-14	20	27	16/20	TP08/M2.2					
SNG0259		BE34A	7-16									
SNG0260		BE32A	9-18									
SNG0261		BE30A	11-20									
SNG0262		BE28A	13-22									
SNG0263		BE26A	15-24									
SNG0264		BE24A	17-26									
SNG0265		BE22A	19-28									
SNG0266		BE20A	21-30									
SNG0267		BE18A	23-32									
SNG0268		C20-CBR20	BE36A					5-14	30	27	16/20	TP08/M2.2
SNG0269			BE34A					7-16				
SNG0270			BE32A					9-18				
SNG0271			BE30A					11-20				
SNG0272	BE28A		13-22									
SNG0273	BE26A		15-24									
SNG0274	BE24A		17-26									
SNG0275	BE22A		19-28									
SNG0276	BE20A		21-30									
SNG0277	BE18A		23-32									
SNG0278	C16-CBR30		BE36A	25-34	30	27	16/20	TP08/M2.2				
SNG0279			BE34A	27-36								
SNG0280			BE32A	29-38								
SNG0281			BE30A	31-40								
SNG0282		BE28A	33-42									
SNG0283		BE26A	35-44									
SNG0284		BE24A	37-46									
SNG0285		BE22A	39-48									
SNG0286		BE20A	41-50									
SNG0287		BE18A	43-52									
SNG0288		C20-CBR30	BE36A	25-34					30	27	16/20	TP08/M2.2
SNG0289			BE34A	27-36								
SNG0290			BE32A	29-38								
SNG0291			BE30A	31-40								
SNG0292	BE28A		33-42									
SNG0293	BE26A		35-44									
SNG0294	BE24A		37-46									
SNG0295	BE22A		39-48									
SNG0296	BE20A		41-50									
SNG0297	BE18A		43-52									

※C16-CBR20 · CBR30 為 CBI6 搪孔器專用搪外圓組件 ※C16-CBR20 · CBR30 are the external boring assemblies for CBI6 boring system.
 ※C20-CBR20 · CBR30 為 CBH2084 搪孔器專用搪外圓組件 ※C20-CBR20 · CBR30 are the external boring assemblies for CBH2084 boring system.

CBR20, CBR30 專用加長連接桿

Extension Adapters for CBR20 · CBR30



型號 Code NO.	規格 Type	適用搪孔頭 Applicable Insert Holder	桿長 L (mm)	有效深 Z (mm)	結合牙 M
SNG0298	CBRM10-34	BE18A-BE36A	34	61	M10
SNG0299	CBRM10-64		64	91	

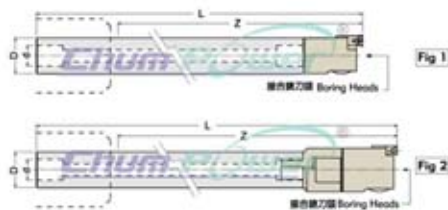
超硬整體碳化鎢製搪刀桿 (搪孔範圍 $\varnothing 20 - \varnothing 75\text{mm}$)Super Hard Solid Tungsten Carbide Boring Bar (Boring Range from $\varnothing 20 - \varnothing 75\text{mm}$)

特色

1. 超硬碳化鎢製搪刀桿，使用高韌性配方製造，堅韌耐用，實現高硬度、高剛性、高抗震性，可進行超深孔搪孔加工(10D)。
2. 各種規格均有內部水孔，深孔加工時排屑及冷卻效果良好。
3. 直柄結構，加工深度可依加工請求自行調整。
4. 本體兩端均設有結合孔，如遇一端損壞時，另一端即能配合使用，增加刀桿本身價值，更符合經濟效益。

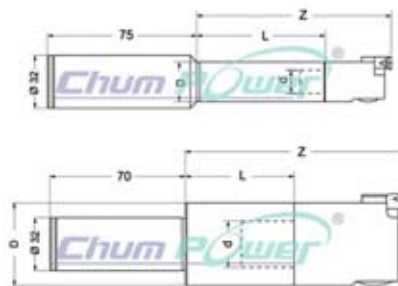
Features

1. Super hard tungsten carbide boring bar made from high toughness compound is tough and durable, highly materializing features of super hardness, high rigidity and extra vibration resistance, most suitable for extra depth boring (10D).
2. Standard internal coolant hole is built in every size of the bar, best for cooling and chip evacuation in deep hole boring.
3. Featuring straight shank structure, the bar can be adjusted to different working lengths.
4. On both ends of main body integrated are soldering holes. One hole will be superseded by the other upon breaking. This will reduce your cost and greatly increase the value of boring bar.

超硬
SUPER HARD

C32直柄搪刀桿

C32 Straight Shank Boring Bar 接合搪刀頭



規格 Specifications:

型號 Code NO.	鑽頭規格 Type	內孔徑 Inside Dia. d (mm)	外徑 External Dia. D (mm)	長度 Length L (mm)	有效長 Z (mm)	接合搪刀頭 Applicable Boring Heads	重量 Weight (kg)
SNG0196	C32-LBK1-075L	11	19	75	110	CBH20	0.5
SNG0197	C32-LBK2-070L	14	24	70	110	RBH25; RBH25LA	0.55
SNG0198	C32-LBK2-120L	14	24	120	160	CBH25	0.8
SNG0199	C32-LBK3-070L	18	31	70	110	RBH32; RBH32LA	0.65
SNG0200	C32-LBK3-120L	18	31	120	160	CBH32	0.95
SNG0201	C32-LBK4-060L	22	39	60	110	RBH40; RBH40LA	0.8
SNG0202	C32-LBK4-110L	22	39	110	160	CBH40; CBI 4	1.2
SNG0203	C32-LBK5-060L	28	50	60	120	RBH52; RBH52LA	1
SNG0204	C32-LBK5-120L	28	50	120	180	CBH52; CBI 5	1.95
SNG0205	C32-LBK6-060L	36	64	60	130	RBH68; RBH90 RBH68LA; RBH90LA	1.55
SNG0206	C32-LBK6-120L	36	64	120	190	CBH68, 100, 150; CBI 6	2.9

※此規格不含搪刀頭 ※Boring head is not included.

碳化鎢直柄搪刀桿 Super Head Solid Tungsten Carbide Boring Bar

規格 Specifications:

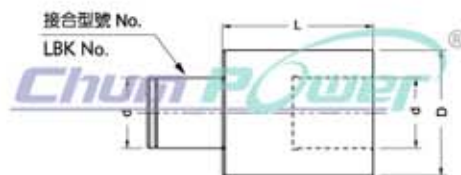
型號 Code NO.	規格 Type	圖式 Fig	內孔徑 Inside Dia. d (mm)	外徑 External Dia. D (mm)	全長 Length L (mm)	有效長 Z (mm)	接合搪刀頭 Applicable Boring Heads	鑽孔範圍 Boring Diameter (mm)	重量 Weight (kg)
SNG0184	SC19-LBK1-150L	1	11	19	225	150	CBH20	20-26	0.8
SNG0185	SC19-LBK1-200L				275	200			1
SNG0186	SC24-LBK2-180L		14	24	260	180		1.45	
SNG0187	SC24-LBK2-240L				320	240		1.8	
SNG0188	SC32-LBK3-240L	18	32	320	240	CBH32	33-42	2.8	
SNG0189	SC32-LBK3-310L			390	310			3.5	
SNG0190	SC32-LBK3/4-280L	2	18/22	32/39	365	280	CBH40	40-55	3.1
SNG0191	SC32-LBK3/4-350L				435	350			3.8
SNG0192	SC40-LBK4-310L	1	22	40	390	310	CBH40	41-55	5
SNG0193	SC40-LBK4-400L	480	400	6.5					
SNG0194	SC40-LBK4/5-360L	2	22/28	40/50	445	360	CBH52	52-75	5.6
SNG0195	SC40-LBK4/5-450L				535	450			7.1

※此規格不含搪刀頭 ※Boring head is not included.

※LBK3/4與LBK4/5為小變大異徑延長桿 ※LBK3/4 and LBK4/5 are extensions with magnifying diameter.

等徑搪刀延長桿

Extension(Constant Diameter)

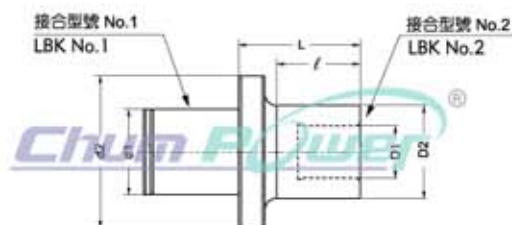


規格 Specifications:

型號 Code NO.	規格 Type	d mm	D mm	L mm	接合搪刀頭 Applicable Boring Heads	重量 Weight
SNG0207	LBK1-1-30L	11	19	30	CBH20	0.07
SNG0208	LBK2-2-30L	14	24	30	RBH25 ; CBH25	0.1
SNG0209	LBK3-3-30L	18	31	30	RBH32 ; CBH32	0.15
SNG0210	LBK4-4-45L	22	39	45	RBH40 ; CBH40 ; CBI4	0.4
SNG0211	LBK5-5-60L	28	50	60	RBH52 ; CBH52 ; CBI5	0.8
SNG0212	LBK6-6-60L	36	64	60	RBH68/RBH90 ; CBH68,100,150 ; CBI6	1.4

異徑搪刀延長桿

Extension(Reducing)



規格 Specifications:

型號 Code NO.	規格 Type	d 1 mm	d 2 mm	D1 mm	D2 mm	L mm	r mm	接合搪刀頭 Applicable Boring Heads	重量 kg
SNG0213	LBK2-1-36L	14	24	11	19	36	30	CBH20	0.1
SNG0214	LBK3-1-41L	18	31			41	30	CBH20	0.15
SNG0215	LBK3-2-37L			14	24	37	25	RBH25 ; CBH25	0.15
SNG0216	LBK4-1-58L	22	39	11	19	58	40	CBH20	0.3
SNG0217	LBK4-2-50L			14	24	50	36	RBH25 ; CBH25	0.3
SNG0218	LBK4-3-50L			18	31	50	37	RBH32 ; CBH32	0.35
SNG0219	LBK5-1-60L	28	50	11	19	60	40	CBH20	0.45
SNG0220	LBK5-2-54L			14	24	54	35	RBH25 ; CBH25	0.45
SNG0221	LBK5-2-74L			74	55	RBH25 ; CBH25	0.5		
SNG0222	LBK5-3-47L			47	29	RBH32 ; CBH32	0.5		
SNG0223	LBK5-3-72L			72	54	RBH32 ; CBH32	0.6		
SNG0224	LBK5-4-42L			42	25	RBH40 ; CBH40	0.5		
SNG0225	LBK5-4-67L	67	50	RBH40 ; CBH40	0.7				
SNG0226	LBK6-1-70L	36	64	11	19	70	40	CBH20	0.9
SNG0227	LBK6-2-63L			14	24	63	45	RBH25 ; CBH25	0.7
SNG0228	LBK6-2-93L			93	75	RBH25 ; CBH25	0.8		
SNG0229	LBK6-3-56L			18	31	56	39	RBH32 ; CBH32	0.75
SNG0230	LBK6-3-96L			96	79	RBH32 ; CBH32	0.95		
SNG0231	LBK6-4-51L			51	35	RBH40 ; CBH40	0.85		
SNG0232	LBK6-4-101L			101	85	RBH40 ; CBH40	1.3		
SNG0233	LBK6-5-41L			41	25	RBH52 ; CBH52	0.85		
SNG0234	LBK6-5-91L			91	75	RBH52 ; CBH52	1.45		
SNG0301	BST-LBK6			50	95	36	64	100	60

接觸式刀具設定儀-旋轉式主軸

Contact Type Tool Presetter-Rotating Spindle.



Standard Accessories

- Test arbor: 1pc (D40, L200)
- Dial gauge: 2pcs
- Hex, wrench: 1set
- Dust cover: 1pc

標準配備:

- 試棒1支 (D40, L200)
- 百分錶: 2只
- 六角板手: 1組
- 防塵套: 1件



型號 Code NO.	規格 Type	行程 Travel	解析度 Resolution
SNG0901	300R-50	D:300 L:50-400	0.001
SNG0902	301R-50	D:500 L:50-600	0.001

非接觸式刀具設定儀

Non-contact Tool Presetter



X and Z axes are equipped with precision linear guideways, allowing for rapid traverse and micrometric transmission.
X、Z軸附精密線性滑軌，可做快速移位及微調傳動。

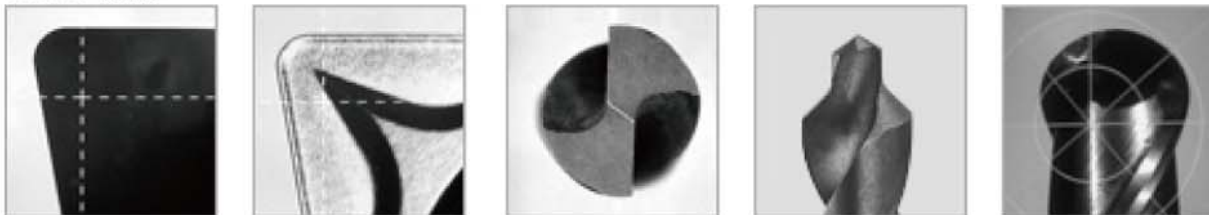
OUTSTANDING FEATURES:

- A high resolution CCD measuring system combined, Magnification 35x~200x. (or more).
- Automatic scanning greatly upgrades software measuring accuracy. (Optional)
- Not only suitable for measuring tool radius, angle, cutting angle and back bevel angle, but also ideal for inspecting tool surface conditions.
- Tool edge and side surface can be measured and projected.

機械特性:

- 高解像度CCD影像量測系統，放大倍率35-200倍。(或更大)。
- 軟體具自動尋邊功能，減少人為視覺誤差，大幅提昇量測精度。(選配)
- 除了提供刀具圓弧、角度、切削角、後斜角量測功能。也可做刀具表面使用狀況檢查。
- 刀具端面，側面都可量測及投影。

Features 特性:



It provides tool contour and surface image functions.

Suitable for inspecting tool angle, radius and cutting angle.

具刀具輪廓及表面影像功能，可作刀具角度、圓弧、切削角檢測。

型號 Code NO.	規格 Type	行程 Travel	解析度 Resolution	倍率 Magnification
SNG0903	300R-50	X:150	0.001	35x-200x
	301R-50	L:50-400	0.001	35x-200x



VDI System

VDI 系統



DI FIXED TOOLHOLDER

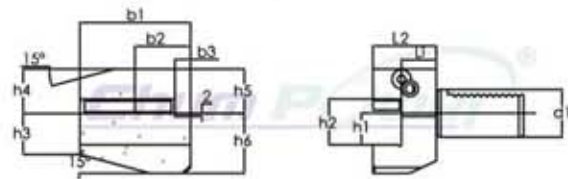
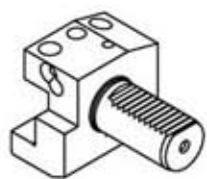
VDI system

VDI system

H-01

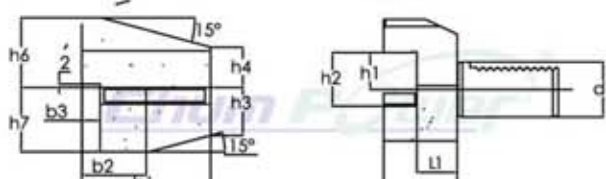
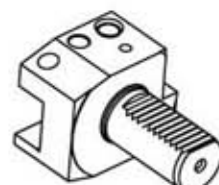
H-02

B1



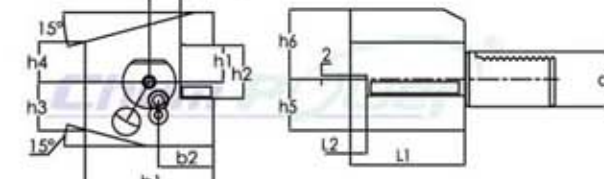
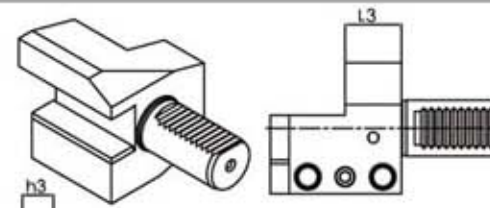
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VD02001	20	55	30	7	16	22	19	19	25	30	26	40
VD02002	30	70	35	10	20	29	26	22	28	38	22	40
VD02003	40	85	42.5	12.5	25	34	35	30	32.5	48	22	44
VD02004	50	100	50	16	32	41	42	35	35	60	30	55
VD02005	60	125	62.5	16	32	41	46	42.5	42.5	62.5	30	60

B4



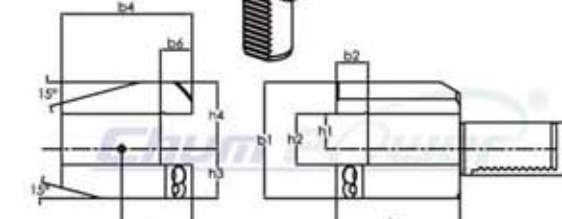
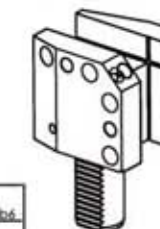
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VD05001	20	55	30	7	16	22	19	19	25	30	26	40
VD05002	30	70	35	6	20	29	26	22	35	38	22	40
VD05003	40	85	42.5	10	25	34	35	30	42.5	48	22	44
VD05004	50	100	50	12	32	41	42	35	50	60	30	55
VD05005	60	125	62.5	12	32	41	46	42.5	62.5	62.5	30	60

C3



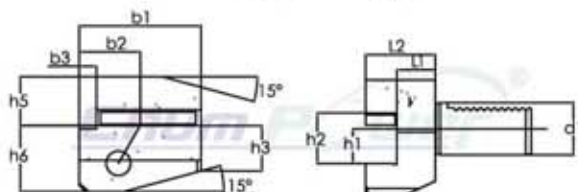
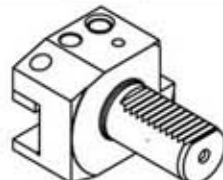
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VD08001	20	65	40	26	16	22	19	19	25	30	50	-	30
VD08002	30	70	35	17	20	29	26	22	35	38	70	10	30
VD08003	40	85	42.5	20.5	25	34	35	30	42.5	48	85	12.5	30
VD08004	50	100	50	25.5	32	41	42	35	50	60	100	16	40
VD08005	60	125	62.5	32.5	32	41	46	42.5	62.5	62.5	125	16	40

CB2



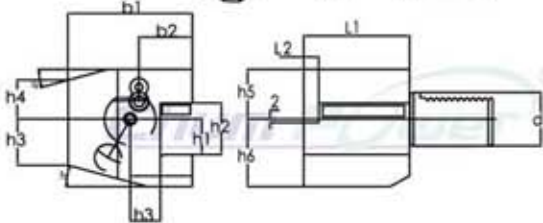
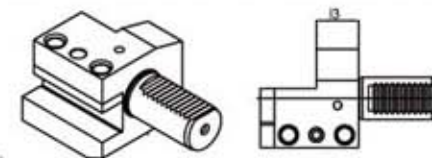
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VD11002	30	18	74	40	18	20	26	38	28	70
VD11003	40	22	85	47	22	25	35	48	32.5	100
VD11004	50	25	105	55	25	32	42	60	35	120
VD11005	60	30	125	62.5	30	32	46	62.5	42.5	135

B2



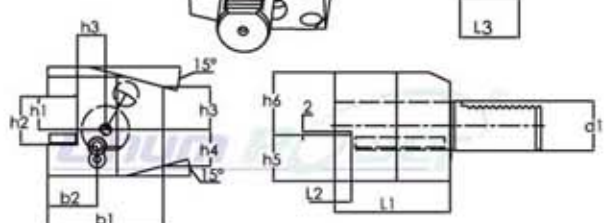
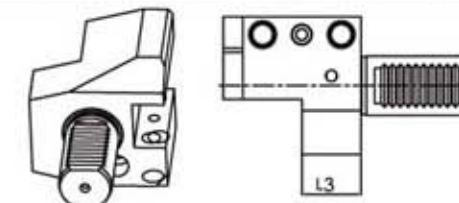
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VD03001	20	55	30	7	16	22	19	19	25	30	26	40
VD03002	30	70	35	10	20	29	26	22	28	38	22	40
VD03003	40	85	42.5	12.5	25	34	35	30	32.5	48	22	44
VD03004	50	100	50	16	32	41	42	35	35	60	30	55
VD03005	60	125	62.5	16	32	41	46	42.5	42.5	62.5	30	60

C1



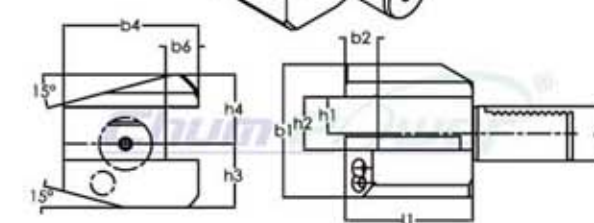
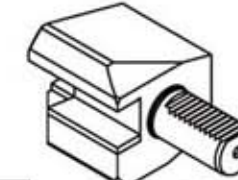
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VD06002	30	70	35	17	20	29	26	22	28	38	70	10	30
VD06003	40	85	42.5	20.5	25	34	35	30	32.5	48	85	12.5	30
VD06004	50	100	50	25.5	32	41	42	35	35	60	100	16	40
VD06005	60	125	62.5	32.5	32	41	46	42.5	62.5	62.5	125	16	40

C4



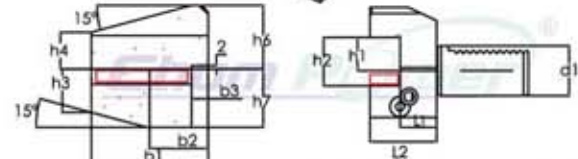
CODE NO.	d1	b1	b2	b3	h1	h2	h3	h4	h5	h6	L1	L2	L3
VD09001	20	65	40	26	16	22	19	19	25	30	50	-	30
VD09002	30	76	41	23	20	29	26	22	35	38	70	10	30
VD09003	40	90	47.5	20.5	25	34	35	30	42.5	48	85	12.5	30
VD09004	50	105	55	30.5	32	41	42	35	50	60	100	16	40
VD09005	60	125	62.5	32.5	32	41	46	42.5	62.5	62.5	125	16	40

CB3



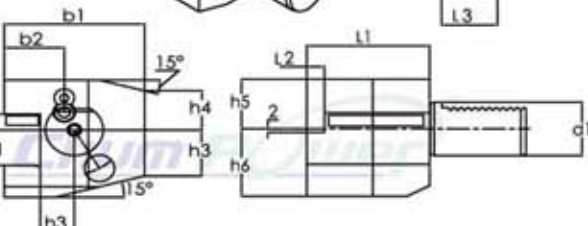
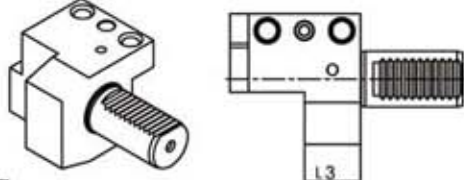
CODE NO.	d1	b2	b4	b5	b6	h1	h2	h3	h4	L1
VD12002	30	18	74	40	18	20	22	38	28	70
VD12003	40	22	85	47	22	25	35	48	32.5	100
VD12004	50	25	105	55	25	32	42	60	35	120
VD12005	60	30	125	62.5	30	32	46	62.5	42.5	135

B3



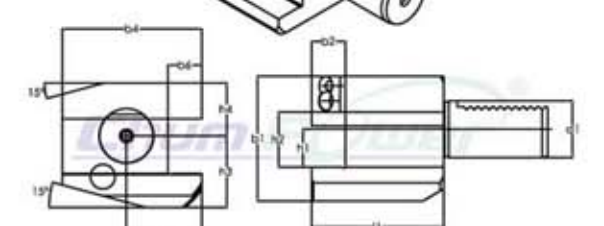
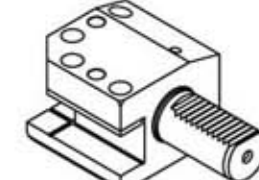
CODE NO.	d1	b1	b2	b3	h1	h2	h3	h4	h6	h7	L1	L2
VD04001	20	55	30	7	16	22	19	19	30	25	26	40
VD04002	30	70	35	10	20	29	26	22	38	35	22	40
VD04003	40	85	42.5	12.5	25	34	35	30	48	42.5	22	44
VD04004	50	100	50	16	32	41	42	35	60	50	30	55
VD04005	60	125	62.5	16	32	41	46	42.5	62.5	62.5	30	60

C2



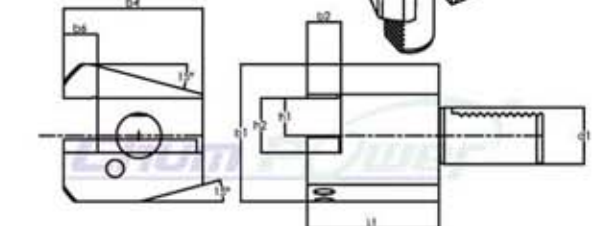
CODE NO.	d1	b1	b2	b3	h1	h2	h3	h4	h5	h6	L1	L2	L3
VD07001	20	65	40	26	16	22	19	19	25	30	50	-	30
VD07002	30	76	41	23	20	29	26	22	28	38	70	10	30
VD07003	40	90	47.5	20.5	25	34	35	30	32.5	48	85	12.5	30
VD07004	50	105	55	30.5	32	41	42	35	35	60	100	16	40
VD07005	60	125	62.5	32.5	32	41	46	42.5	62.5	62.5	125	16	40

CB1



CODE NO.	d1	b2	b4	b5	b6	h1	h2	h3	h4	L1
VD10002	30	18	74	40	18	20	26	38	28	70
VD10003	40	22	85	45	22	25	35	48	32.5	85
VD10004	50	25	105	55	25	32	42	60	35	100
VD10005	60	30	125	62.5	30	32	46	62.5	42.5	125

CB4

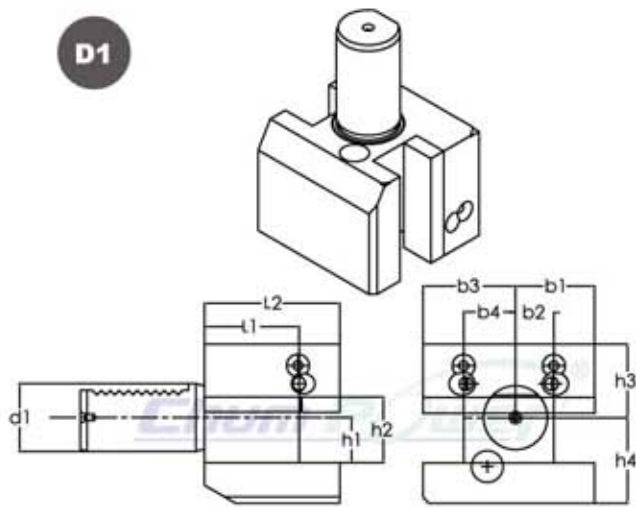


CODE NO.	d1	b2	b4	b5	b6	h1	h2	h3	h4	L1
VD13002	30	18	74	40	18	20	22	38	28	70
VD13003	40	22	85	47	22	25	35	48	32.5	100
VD13004	50	25	105	55	25	32	42	60	35	120
VD13005	60	30	125	62.5	30	32	46	62.5	42.5	135

※型號 VD02004、VD03004、VD04004、VD05004、VD06004、VD07004 訂購基本量為10單位。
※Code No. VD02004、VD03004、VD04004、VD05004、VD06004、VD07004 MOQ:10PCS

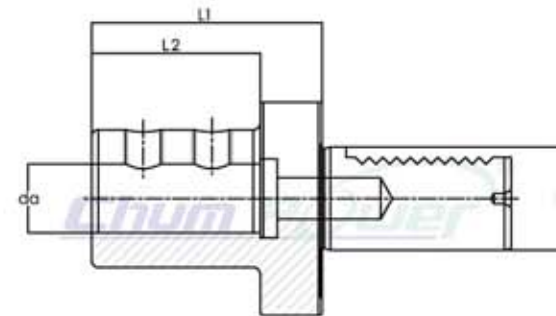
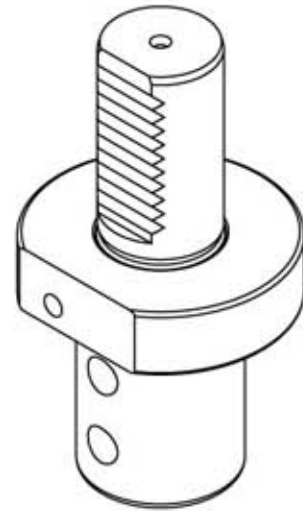
※型號 VD08004、VD09004、VD10004、VD11004、VD12004、VD13004 訂購基本量為10單位。
※Code No. VD08004、VD09004、VD10004、VD11004、VD12004、VD13004 MOQ:10PCS

D1



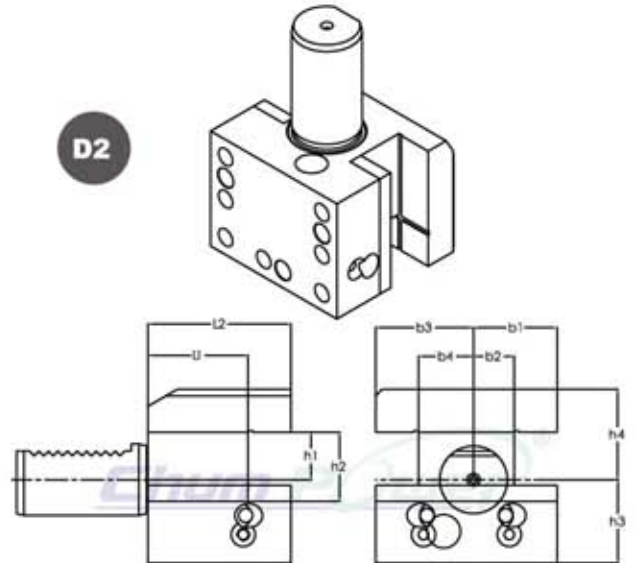
CODE NO.	d1	b1	b2	b3	b4	h1	h2	h3	h4	L1	L2
VD14001	30	35	17	41	23	20	29	28	38	42	60
VD14002	40	42.5	20.5	47.5	25.5	25	34	32.5	48	50	72
※ VD14003	50	50	25.5	55	30.5	32	41	35	60	60	85
VD14004	60	57.5	32.5	57.5	32.5	32	41	42.5	62.5	85	110

E1



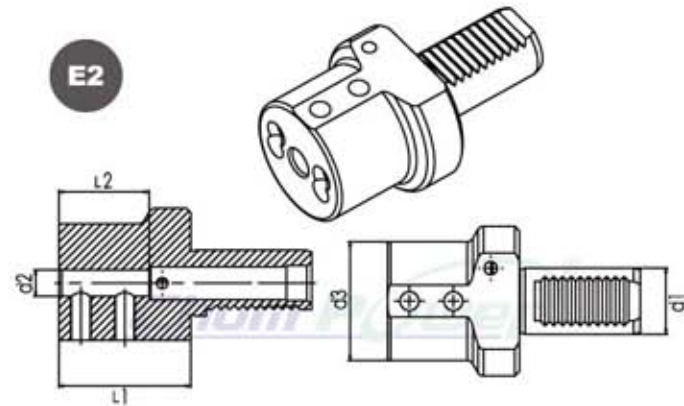
CODE NO.	D	da	L1	L2
VD16001	20	20	67	54
VD16002	20	25	71	59
VD16003	30	20	67	54
VD16004	30	25	71	59
VD16005	30	32	75	63
VD16006	40	20	67	54
VD16007	40	25	71	59
VD16008	40	32	75	63
VD16009	40	40	90	73
※ VD16010	50	20	67	54
※ VD16011	50	25	71	59
※ VD16012	50	32	75	63
※ VD16013	50	40	90	73
※ VD16014	50	50	100	83

D2



CODE NO.	d1	b1	b2	b3	b4	h1	h2	h3	h4	L1	L2
VD15001	30	35	17	41	23	20	29	35	38	42	60
VD15002	40	42.5	20.5	47.5	25.5	25	34	42.5	48	50	72
※ VD15003	50	50	25.5	55	30.5	32	41	50	60	60	85
VD15004	60	57.5	32.5	57.5	32.5	32	41	62.5	62.5	85	110

E2



CODE NO.	D1	D2	D3	L1	L2
VD17002	20	10	50	41	56
VD17003	20	12	50	41	56
VD17004	20	16	50	41	56
VD17005	20	20	50	41	56

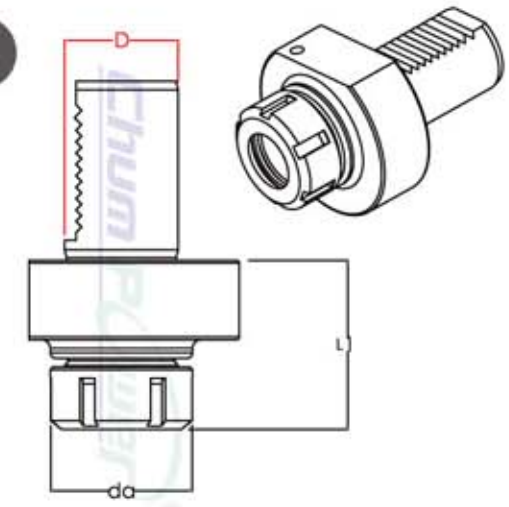
CODE NO.	D1	D2	D3	L1	L2
VD17007	30	10	55	55	48
VD17008	30	12	55	55	48
VD17009	30	16	55	75	50
VD17010	30	20	55	75	60
VD17011	30	25	66	85	70
VD17012	30	32	66	85	70

CODE NO.	D1	D2	D3	L1	L2
VD17014	40	10	60	55	50
VD17015	40	12	60	55	50
VD17016	40	16	70	75	50
VD17017	40	20	70	75	60
VD17018	40	25	70	85	60
VD17019	40	32	70	85	70
VD17020	40	40	83	100	70

CODE NO.	D1	D2	D3	L1	L2
※ VD17021	50	10	60	72	50
※ VD17022	50	12	60	72	50
※ VD17023	50	16	68	90	60
※ VD17024	50	20	68	90	60
※ VD17025	50	25	68	90	76
※ VD17026	50	32	74	92	76
※ VD17027	50	40	96	92	76

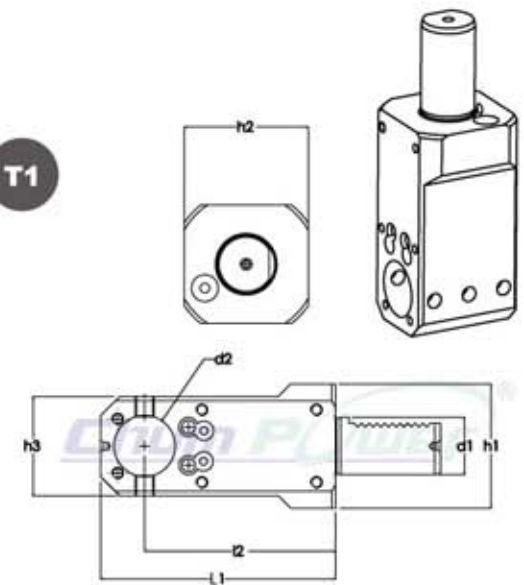
CODE NO.	D1	D2	D3	L1	L2
VD17028	60	16	80	90	60
VD17029	60	20	80	90	60
VD17030	60	25	80	90	68
VD17031	60	32	80	92	68
VD17032	60	40	92	92	76
VD17033	60	50	92	102	86

E4



CODE NO.	D	da	L1	Collet
VD18001	30	42	55	ER25
VD18002	30	50	59	ER32
VD18003	40	42	55	ER25
VD18004	40	50	59	ER32

T1



CODE NO.	d1	d2	L1	L2	h1	h2
VD19001	30	32	90	65	65	52
VD19002	30	32	108	85	65	52
VD19003	30	32	123	100	65	52
VD19004	30	32	143	120	65	52
VD19005	40	32	112	85	80	65
VD19006	40	40	112	85/100	80	65
VD19007	40	40	127	120	80	65

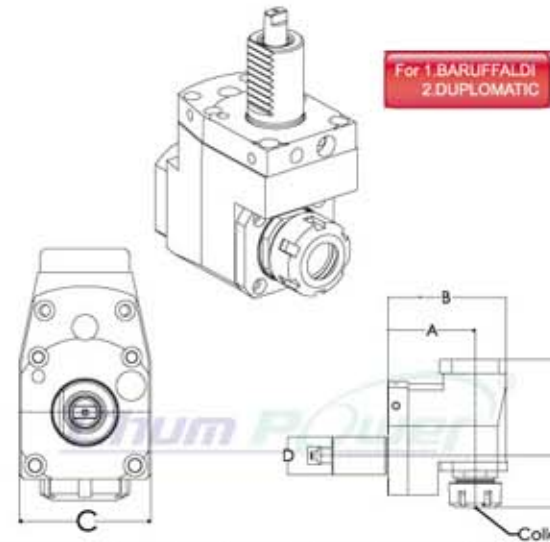
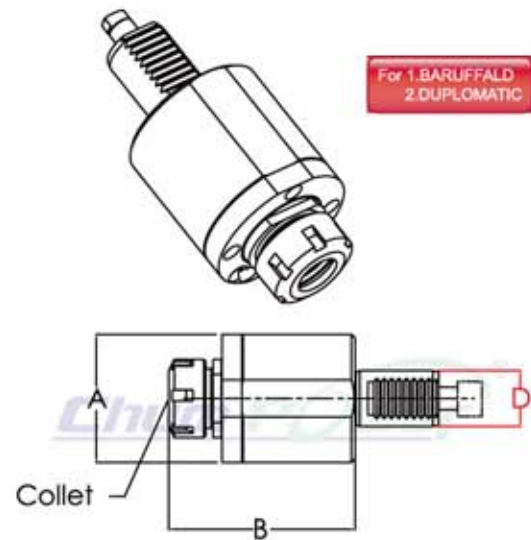
※型號 VD14003、VD15003、VD16010、VD16011、VD16012、VD16013、VD16014 訂購基本量為10單位。
 ※Code No. VD14003、VD15003、VD16010、VD16011、VD16012、VD16013、VD16014 MOQ: 10PCS。

※型號 VD17021、VD17022、VD17023、VD17024、VD17025、VD17026、VD17027 訂購基本量為10單位。
 ※Code No. VD17021、VD17022、VD17023、VD17024、VD17025、VD17026、VD17027 MOQ: 10PCS。

SA Run Transmission

HB Run Transmission

HF Run Transmission



CODE NO.	D	A	B	Collet	TYPE OF COUPLING
VD32001	20	53	75	ER20	DIN1809
VD32002	30	69	100	ER25	DIN1809
VD32003	40	82	113	ER32	DIN1809
※ VD32004	50	88	127	ER40	DIN1809
VD32005	60	108	153	ER50	DIN1809

CODE NO.	D	A	B	E	F	G	COLLET	TYPE OF COUPLING
VD33001	20	55	78	50	27	62	ER20	DIN1809
VD33002	30	70	97	64	32	75	ER25	
VD33003	40	85	118	80	42	112	ER32	
※ VD33004	50	90	128	86	45	112	ER40	
VD33005	60	100	145	104	54	118	ER50	

CODE NO.	D	A	B	E	F	COLLET	TYPE OF COUPLING
VD34001	20	55	75	50	55	ER20	DIN1809
VD34002	30	65/85	85	60	68	ER25	
VD34003	40	85/100	95	80	71	ER32	

CODE NO.	D	A	B	E	F	COLLET	TYPE OF COUPLING
VD34010	20	55	75	50	55	ER20	MT
VD34011	30	65/85	85	60	68	ER25	
VD34012	40	85/100	95	80	71	ER32	

CODE NO.	D	A	B	Collet	TYPE OF COUPLING
VD32006	20	53	75	ER20	DIN5480
VD32007	30	69	100	ER25	DIN5480
VD32008	40	82	113	ER32	DIN5480
※ VD32009	50	88	127	ER40	DIN5480
VD32010	60	108	153	ER50	DIN5480

CODE NO.	D	A	B	E	F	G	COLLET	TYPE OF COUPLING
VD33006	20	55	78	50	27	62	ER20	DIN5480
VD33007	30	70	97	64	32	75	ER25	
VD33008	40	85	118	80	42	112	ER32	
※ VD33009	50	90	128	86	45	112	ER40	
VD33010	60	100	145	104	54	118	ER50	



CODE NO.	D	A	B	E	F	COLLET	TYPE OF COUPLING
VD34004	20	55	75	50	55	ER20	DIN5480
VD34005	30	65/85	85	60	68	ER25	
VD34006	40	85/100	95	80	71	ER32	

CODE NO.	D	A	B	Collet	TYPE OF COUPLING
VD32011	20	53	75	ER20	DIN5482
VD32012	30	69	100	ER25	DIN5482
VD32013	40	82	113	ER32	DIN5482
※ VD32014	50	88	127	ER40	DIN5482
VD32015	60	108	153	ER50	DIN5482

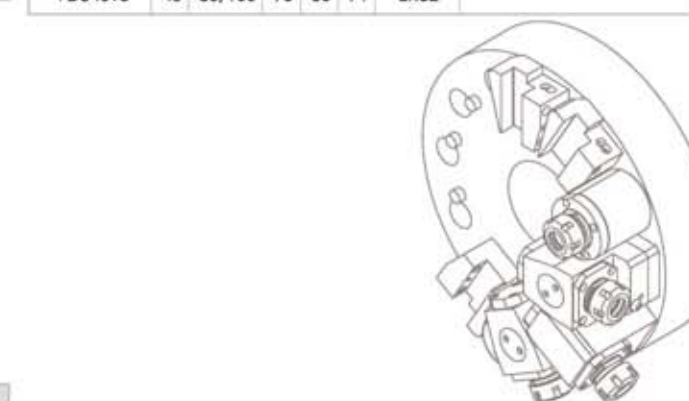
CODE NO.	D	A	B	E	F	G	COLLET	TYPE OF COUPLING
VD33011	20	55	78	50	27	62	ER20	DIN5482
VD33012	30	70	97	64	32	75	ER25	
VD33013	40	85	118	80	42	112	ER32	
※ VD33014	50	90	128	86	45	112	ER40	
VD33015	60	100	145	104	54	118	ER50	

CODE NO.	D	A	B	E	F	COLLET	TYPE OF COUPLING
VD34004	20	55	75	50	55	ER20	DIN5480
VD34005	30	65/85	85	60	68	ER25	
VD34006	40	85/100	95	80	71	ER32	

CODE NO.	D	A	B	E	F	COLLET	TYPE OF COUPLING
VD34013	20	55	75	50	55	ER20	IT
VD34014	30	65/85	85	60	68	ER25	
VD34015	40	85/100	95	80	71	ER32	

CODE NO.	D	A	B	Collet	TYPE OF COUPLING
VD32016	20	53	75	ER20	MT
VD32017	30	69	100	ER25	MT
VD32018	40	82	113	ER32	MT
※ VD32019	50	88	127	ER40	MT
VD32020	60	108	153	ER50	MT

CODE NO.	D	A	B	E	F	G	COLLET	TYPE OF COUPLING
VD33016	20	55	78	50	27	62	ER20	MT
VD33017	30	70	97	64	32	75	ER25	
VD33018	40	85	118	80	42	112	ER32	
※ VD33019	50	90	128	86	45	112	ER40	
VD33020	60	100	145	104	54	118	ER50	

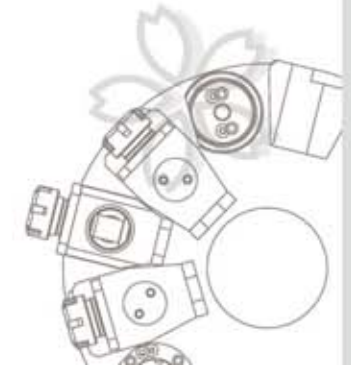


CODE NO.	D	A	B	Collet	TYPE OF COUPLING
VD32021	20	53	75	ER20	IT
VD32022	30	69	100	ER25	IT
VD32023	40	82	113	ER32	IT
※ VD32024	50	88	127	ER40	IT
VD32025	60	108	153	ER50	IT

CODE NO.	D	A	B	E	F	G	COLLET	TYPE OF COUPLING
VD33021	20	55	78	50	27	62	ER20	IT
VD33022	30	70	97	64	32	75	ER25	
VD33023	40	85	118	80	42	112	ER32	
※ VD33024	50	90	128	86	45	112	ER40	
VD33025	60	100	145	104	54	118	ER50	

CODE NO.	D	A	B	E	F	COLLET	TYPE OF COUPLING
VD34007	20	55	75	50	55	ER20	DIN5482
VD34008	30	65/85	85	60	68	ER25	
VD34009	40	85/100	95	80	71	ER32	

※型號 VD32004、VD32009、VD32014、VD32019、VD32024、VD33004、VD33009、VD33014、VD33019、VD33024 訂購基本量為10單位。
 ※Code No. VD32004、VD32009、VD32014、VD32019、VD32024、VD33004、VD33009、VD33014、VD33019、VD33024 MOQ: 10PCS





Live Center System

頂針系統



NCH-61 REPLACEMENT HIGH PRECISION HIGH SPEED CENTER TYPE NCH-61 替換型高精密高轉速迴轉頂針

Application: It is high precision shaft, performing long spindle turning process.
Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途：高精度一般軸心，長軸心車削加工。
※注油式：可添加專用SKF潤滑油，具防水性。



單位/Unit : mm

Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	Max R.P.M. 軸承最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0001	NCH-61-4A	4	33	79	104	68	31.6	216	12000rpm	2730kg	1750kg
SMC0002	NCH-61-5A	5	33	79	131	68	31.6	243	12000rpm	2730kg	1750kg

徑向力數據參考：加工件重量+車削力量/軸向力數據參考：尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

精準度/Precision : 0.004mm內

NCH-62 HIGH PRECISION HIGH SPEED CENTER TYPE NCH-62 高精密高轉速迴轉頂針

Application: It is high precision shaft, performing long spindle turning process.
Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途：高精度一般軸心，長軸心車削加工。
※注油式：可添加專用SKF潤滑油，具防水性。



單位/Unit : mm

Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	θ	Max R.P.M. 軸承最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0003	NCH-62-4A	4	46	79	104	68	31.7	229	60°	12000rpm	2730kg	1750kg
SMC0004	NCH-62-5A	5	46	79	131	68	31.7	256	60°	12000rpm	2730kg	1750kg

徑向力數據參考：加工件重量+車削力量/軸向力數據參考：尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

精準度/Precision : 0.004mm內

※Adopt world brand SKF lubricant, LGEP2 ※採用世界名牌SKF潤滑油, LGEP2
※Please do not use hydraulic draws lubricant. ※請勿使用油壓三爪用潤滑油

NCH-TS63 WOLFRAM STEEL FIXED HIGH PRECISION HIGH SPEED CENTER TYPE NCH-TS63 鎢鋼固定型高精密高轉速迴轉頂針

Application: It is high precision shaft, performing long spindle turning process. The wolfram-steel center head is welded 20mm depth so it is stable and not easy be abraded.
Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途：高精度一般軸心，長軸心車削加工。
頂針頭部鎢鋼焊接20mm深，穩定性佳，不易磨損。
※注油式：可添加專用SKF潤滑油，具防水性。



單位/Unit : mm

Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	θ	Max R.P.M. 軸承最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0005	NCH-63-TS06-4A	4	52	79	104	68	6	235	60°	12000rpm	2730kg	1750kg
SMC0006	NCH-63-TS08-4A	4	52	79	104	68	8	235	60°	12000rpm	2730kg	1750kg
SMC0007	NCH-63-TS10-4A	4	52	79	104	68	10	235	60°	12000rpm	2730kg	1750kg
SMC0008	NCH-63-TS16-4A	4	52	79	104	68	16	235	60°	12000rpm	2730kg	1750kg
SMC0009	NCH-63-TS06-5A	5	52	79	131	68	6	262	60°	12000rpm	2730kg	1750kg
SMC0010	NCH-63-TS08-5A	5	52	79	131	68	8	262	60°	12000rpm	2730kg	1750kg
SMC0011	NCH-63-TS10-5A	5	52	79	131	68	10	262	60°	12000 rpm	2730kg	1750kg
SMC0012	NCH-63-TS16-5A	5	52	79	131	68	16	262	60°	12000 rpm	2730kg	1750kg

徑向力數據參考：加工件重量+車削力量/軸向力數據參考：尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

精準度/Precision : 0.004mm內

NCH-65 REPLACEMENT HIGH PRECISION HIGH SPEED CENTER TYPE NCH-65 替換型高精密高轉速迴轉頂針

Application: It is high precision shaft, performing long spindle turning process.
Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途：高精度一般軸心，長軸心車削加工。
※注油式：可添加專用SKF潤滑油，具防水性。



單位/Unit : mm

Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	Max R.P.M. 軸承最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0013	NCH-65-4A	4	15	79	104	68	31.7	198	12000rpm	2730kg	1750kg
SMC0014	NCH-65-5A	5	15	79	131	68	31.7	225	12000rpm	2730kg	1750kg

徑向力數據參考：加工件重量+車削力量/軸向力數據參考：尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

精準度/Precision : 0.004mm內

※Adopt world brand SKF lubricant, LGEP2 ※採用世界名牌SKF潤滑油, LGEP2
※Please do not use hydraulic draws lubricant. ※請勿使用油壓三爪用潤滑油

TSC-262 高低速重力切削迴轉頂針

Application: The center adopts special bearing design. The front end is adjustable and three holds are specially designed inside the bearing. The center is applied to high speed long spindle heavy-load turning process and low speed heavy-load turning process.
Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途: 本頂針採用特殊軸承設計, 前端可微調, 內部軸承採特殊三個支撐點設計。
適用於高轉速長軸心重力切削, 低轉速高載重重力切削。
※注油式: 可添加專用SKF潤滑油, 具防水性。



單位/Unit: mm

Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	θ	Max R.P.M. 軸承最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0015	TSC262-4A	4	44	76	104	78	35	224	60°	9000rpm	4592kg	2760kg
SMC0016	TSC262-5A	5	53	82	131	88	45	266	60°	7500rpm	5069kg	3000kg
SMC0017	TSC262-6A	6	67	100	186	118	60	353	60°	6800rpm	9184kg	4850kg

徑向力數據參考: 加工件重量+車削力量/軸向力數據參考: 尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

精準度/Precision: 0.004mm/in

TSC-662 固定型強力重切削迴轉頂針

Application: The center adopts thrust ball bearing design, and the load adopts needle shape bearing. This type is a fixed design. It applies to transmission center, and it is also used by high pushing heavy turning.
Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途: 本頂針採用止推軸承加大推力設計, 載重採用針狀型軸承設計。此款為固定型設計。適用配合傳動頂針, 高推力重力切削使用。
※注油式: 可添加專用SKF潤滑油, 具防水性。



單位/Unit: mm

Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	θ	Max R.P.M. 軸承最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0018	TSC662-4	4	54	68	108	63	45	230	60°	6000rpm	3080kg	3000kg
SMC0019	TSC662-5	5	54	68	135	63	45	257	60°	6000rpm	3080kg	3000kg

徑向力數據參考: 加工件重量+車削力量/軸向力數據參考: 尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

精準度/Precision: 0.004mm/in

TSC-665 替換型強力重切削迴轉頂針

Application: The center adopts thrust ball bearing design, and the load adopts needle shape bearing. This type is a replaceable design, and the head is changeable if it is abraded.
Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途: 本頂針採用止推軸承加大推力設計, 載重採用針狀型軸承設計。此款為替換型設計, 頭部磨損可更換。適用配合傳動頂針, 高推力重力切削使用。
※注油式: 可添加專用SKF潤滑油, 具防水性。



單位/Unit: mm

Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	θ	Max R.P.M. 軸承最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0020	TSC665-3	3	12	57	87	58	35	156	60°	6000rpm	1960kg	2760kg
SMC0021	TSC665-4	4	15	68	108	63	35	188	60°	6000rpm	3080kg	3000kg
SMC0022	TSC665-5	5	15	68	135	63	35	215	60°	6000rpm	3080kg	3000kg

徑向力數據參考: 加工件重量+車削力量/軸向力數據參考: 尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

精準度/Precision: 0.004mm/in

※Adopt world brand SKF lubricant, LGEP2 ※採用世界名牌SKF潤滑油, LGEP2
※Please do not use hydraulic draws lubricant. ※請勿使用油壓三爪潤滑油

TSC-562 可調式重力切削迴轉頂針

Application: The center adopts reformed bearing design. The front end of the bearing is adjustable, and it is also applied to long spindle heavy cutting.
Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途: 本頂針採用改良軸承設計, 前端軸承可微調。
適用於長軸心重力切削。
※注油式: 可添加專用SKF潤滑油, 具防水性。



單位/Unit: mm

Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	θ	Max R.P.M. 軸承最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0023	TSC562-4	4	42	68	108	62	34.5	218	60°	4500rpm	3630kg	2250kg
SMC0024	TSC562-5	5	51	69	135	73	44.4	255	60°	4000rpm	3980kg	2760kg
SMC0025	TSC562-6	6	64	77	190	96	59.7	331	60°	3000rpm	5700kg	4850kg

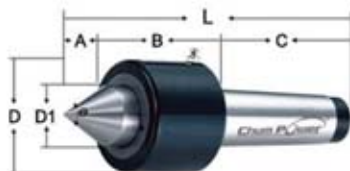
徑向力數據參考: 加工件重量+車削力量/軸向力數據參考: 尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

精準度/Precision: 0.004mm/in

SC-60 H 強力型重負荷迴轉頂針

Application: The center bearing constitute oblique long ball bearing and NK Type ball with three holds arranging in order. It is well stable and rigid, applied to long spindle heavy cutting.
Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途: 本頂針軸承採用斜度長滾柱軸承, 和NK型滾針軸承, 三點支撐排列結構製成。鋼性強, 穩定性佳。適用長軸心重負荷車削加工。
※注油式: 可添加專用SKF潤滑油, 具防水性。



單位/Unit: mm

Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	θ	Max R.P.M. 軸承最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0026	SC-60-H-4	4	43	55	108	78	34.9	206	60°	3500rpm	3920kg	1619kg
SMC0027	SC-60-H-5	5	50	59	135	83	44.9	244	60°	3000rpm	4508kg	2132kg
SMC0028	SC-60-H-6	6	67	89	190	108	59.9	342	60°	2500rpm	7350kg	3150kg

徑向力數據參考: 加工件重量+車削力量/軸向力數據參考: 尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

精準度/Precision: 0.004mm/in

※Adopt world brand SKF lubricant, LGEP2 ※採用世界名牌SKF潤滑油, LGEP2
※Please do not use hydraulic draws lubricant. ※請勿使用油壓三爪潤滑油

SC-61 替換型高速中負荷迴轉頂針

Application: The center applies to general cutting in 300mm length. Radial force and axial force are designed apart. It constitutes two lines ball bearing, thrust ball bearing and NK Type ball bearing. Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途：本頂針適合300mm長以內一般車削加工。
本頂針軸承，徑向力和軸向力分開設計，採用雙列滾珠軸承、滾珠止推軸承、和NK型滾針軸承結構製成。
※注油式：可添加專用SKF潤滑油，具防水性。



Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	Max R.P.M. 軸速最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0029	SC-61-M-3	3	32	58	87	64	31.7	177	4500rpm	1300kg	2250kg
SMC0030	SC-61-M-3A	3	32	74	83	64	31.7	189	4500rpm	1300kg	2250kg
SMC0031	SC-61-M-4	4	32	58	108	64	31.7	198	4500rpm	1300kg	2250kg
SMC0032	SC-61-M-4A	4	32	74	104	64	31.7	210	4500rpm	1300kg	2250kg
SMC0033	SC-61-M-5	5	32	58	135	64	31.7	225	4500rpm	1300kg	2250kg
SMC0034	SC-61-M-5A	5	32	74	131	64	31.7	237	4500rpm	1300kg	2250kg

徑向力數據參考：加工件重量+車削力量/軸向力數據參考：尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

SC-62 固定型重負荷迴轉頂針

Application: The center applies to general cutting in 400mm length. Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途：本頂針適合400mm長以內一般車削加工。
※注油式：可添加專用SKF潤滑油，具防水性。



Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	Max R.P.M. 軸速最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0035	SC-62-H-4	4	45	59	108	68	31.7	212	4000rpm	1420kg	2760kg
SMC0036	SC-62-H-4A	4	45	75	104	68	31.7	224	4000rpm	1420kg	2760kg
SMC0037	SC-62-H-5	5	45	59	135	68	31.7	239	4000rpm	1420kg	2760kg
SMC0038	SC-62-H-5A	5	45	75	131	68	31.7	251	4000rpm	1420kg	2760kg

徑向力數據參考：加工件重量+車削力量/軸向力數據參考：尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

※Adopt world brand SKF lubricant, LGEP2
※採用世界名牌SKF潤滑油, LGEP2
※Please do not use hydraulic draws lubricant. ※請勿使用油壓三爪用潤滑油

SC-63 固定細長型高速中負荷迴轉頂針

Application: The center applies to general cutting in 300mm length. Radial force and axial force are designed apart. It constitutes two lines ball bearing, thrust ball bearing and NK Type ball bearing. Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途：本頂針適合300mm長以內一般軸心車削加工。
本頂針軸承，徑向力和軸向力分開設計，採用雙列滾珠軸承、滾珠止推軸承、和NK型滾針軸承結構製成。
※注油式：可添加專用SKF潤滑油，具防水性。



Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	Max R.P.M. 軸速最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0039	SC-63-M-4	4	57	58	108	64	31.7	223	4500rpm	1300kg	2250kg
SMC0040	SC-63-M-4A	4	57	74	104	64	31.7	235	4500rpm	1300kg	2250kg
SMC0041	SC-63-M-5	5	57	58	135	64	31.7	250	4500rpm	1300kg	2250kg
SMC0042	SC-63-M-5A	5	57	74	131	64	31.7	262	4500rpm	1300kg	2250kg

徑向力數據參考：加工件重量+車削力量/軸向力數據參考：尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

SC-65 替換型重負荷迴轉頂針

Application: The center applies to general cutting in 400mm length. Radial force and axial force are designed apart. It constitutes two lines ball bearing, thrust ball bearing and NK Type ball bearing. Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途：本頂針適合400mm長以內一般車削加工。
本頂針軸承，徑向力和軸向力分開設計，採用雙列滾珠軸承、滾珠止推軸承、和NK型滾針軸承結構製成。
※注油式：可添加專用SKF潤滑油，具防水性。



Code No. 型號	Type 規格	MT	A	B	C	D	D1	L	Max R.P.M. 軸速最高轉數	Radial force 軸承徑向力	Axial force 軸承軸向力
SMC0043	SC-65-H-4	4	12	59	108	68	31.7	179	4000rpm	1420kg	2760kg
SMC0044	SC-65-H-4A	4	12	75	104	68	31.7	191	4000rpm	1420kg	2760kg
SMC0045	SC-65-H-5	5	12	59	135	68	31.7	206	4000rpm	1420kg	2760kg
SMC0046	SC-65-H-5A	5	12	75	131	68	31.7	218	4000rpm	1420kg	2760kg

徑向力數據參考：加工件重量+車削力量/軸向力數據參考：尾座油壓壓力數據
Radial force data reference: work piece weight+turning force/axial force data reference: tailstock hydraulic pressure data

※Adopt world brand SKF lubricant, LGEP2
※採用世界名牌SKF潤滑油, LGEP2
※Please do not use hydraulic draws lubricant. ※請勿使用油壓三爪用潤滑油

SC-66 AUTOMATIC ADJUSTABLE INSERTED CENTER

SC-66 端面自動調整插式傳動頂針

Application: It is without cutting work piece end, and every drive tooth automatically adjusts average force. Precision is stable, and the center can rotate clockwise and counter-clockwise. The center applies to CNC Lathe, Automatic Bar Feeder Machine, Lathe and other relative machines.
Attention: This Automatic Adjustable Inserted Center is counted on the pressure of the tailstock to transmit. If the pressure is higher, the drive force is bigger.

用途：免車削工件端面，每支傳動齒自動調整平均力傳動，精度穩定性佳，可正、反轉車削使用，適用於CNC車床、自動車削送料專用機、一般車床及其它相關機械使用，傳動齒有多種外徑規格選擇使用。
※注意使用：本端面自動調整插式傳動頂針，靠尾座足夠壓力，即可傳動車削使用，尾座壓力越高，傳動力越大。



整組 Whole Set

單位/Unit : mm

Code No. 型號	Type 規格	MT 三爪夾持外徑	傳動齒附件組	切削工件直徑
SMC0047	SC-66-A-4	MT4	SC-66-A	In Ø40mm
SMC0048	SC-66-B-4	MT4	SC-66-B	In Ø45mm
SMC0049	SC-66-C-4	MT4	SC-66-C	In Ø50mm
SMC0050	SC-66-Ø40-A	Ø40	SC-66-A	In Ø40mm
SMC0051	SC-66-Ø40-B	Ø40	SC-66-B	In Ø45mm
SMC0052	SC-66-Ø40-C	Ø40	SC-66-C	Ø50mm 以內



傳動齒附件組 Drive Tooth Accessory 單位/Unit : mm

Code No. 型號	Type 規格	Center Pin 中心針	Drive tooth 傳動齒	Key 固定鍵
SMC0053	SC-66-A	SC-09-09	SC-10-10	SC-66-013
SMC0054	SC-66-B	SC-09-09	SC-10-13	SC-66-013
SMC0055	SC-66-A	SC-09-06	SC-10-17	SC-66-013

SC-67 REPLACEABLE AUTOMATIC FIXED INSERTED CENTER

SC-67 替換型端面固定齒插式傳動頂針

Application: The Replaceable Automatic Fixed Inserted Center can rotate clockwise and counter-clockwise. Before using, you should cut the end of the work piece. The center can apply to CNC Lathe which can cut the work piece back and forth at one time. Also, CNC Lathe, Automatic Bar Feeder Machine, 4 axis CNC Milling Machine, Gear Hobbing Machines, Milling, Lathe, and other machines can use this center.

Attention: The Replaceable Automatic Fixed Inserted Center is counted on the pressure of the tailstock to transmit. The pressure is higher, the drive force is bigger.

用途：使用本固定傳動插式頂針可正、反轉車削前，使用前須先車削工件端面，才可傳動。本頂針優點，用於CNC車床，可前後同部車削工件一次加工完成，適用於CNC車床、自動車削送料專用機、CNC銑床第四軸、齒輪滾齒機、銑床、一般車床及其它機械使用。

※注意使用：本替換型端面固定齒插式傳動頂針，靠尾座足夠壓力，即可傳動車削使用，尾座壓力越高，傳動力越大。



整組 Whole Set

單位/Unit : mm

Code No. 型號	Type 規格	Drive Tooth 傳動齒
SMC0100	SC-67-MT4	MT4
SMC0101	SC-67-Ø30	Ø30



傳動齒 Drive tooth



中心針 Center Pin

傳動齒 Drive Tooth 單位/Unit : mm

Code No. 型號	Type 規格	ØA	ØB
SMC0056	SC-67-0408A	4	8
SMC0057	SC-67-0510A	5	10
SMC0058	SC-67-0612A	6	12
SMC0059	SC-67-0616A	6	16
SMC0060	SC-67-0820A	8	20
SMC0061	SC-67-1025A	10	25
SMC0062	SC-67-1225A	12	25
SMC0063	SC-67-1432A	14	32

中心針 Center Pin 單位/Unit : mm

Code No. 型號	Type 規格	ØA	ØB
SMC0064	SC-67-0410B	4	10
SMC0065	SC-67-0510B	5	10
SMC0066	SC-67-0610B	6	10
SMC0067	SC-67-0810B	8	10
SMC0068	SC-67-1010B	10	10
SMC0069	SC-67-1210B	12	10
SMC0070	SC-67-1410B	14	10

SC-80 BULL NOSE HEAVY CUTTING CENTER TYPE

SC-80 傘型重切削迴轉頂針

Application: It is applicable to metal working on large bore. The head is made of alloy steel which is heat treated and grinded inside and outside.
Lubricator: You can use specialized SKF lubricant and it is water proofed.

用途：適用大孔徑重切削。
本頂針，頭部使用合金鋼材，經熱處理，內、外研磨製成。
※注油式：可添加專用SKF潤滑油，具防水性。



單位/Unit : mm

Code No. 型號	Type 規格	MT	A	B	C	D	L
SMC0071	SC-80-4-3	4	66	13	108	77	187
SMC0072	SC-80-4-4	4	75	13	108	107	199
SMC0073	SC-80-4-5	4	85	13	108	127	208
SMC0074	SC-80-4-6	4	95	13	108	157	218
SMC0075	SC-80-4-8	4	95	13	108	207	218
SMC0076	SC-80-4-10	4	100	13	108	257	223
SMC0077	SC-80-5-3	5	66	13	135	77	214
SMC0078	SC-80-5-4	5	75	13	135	107	226
SMC0079	SC-80-5-5	5	85	13	135	127	235
SMC0080	SC-80-5-6	5	95	13	135	157	245
SMC0081	SC-80-5-8	5	95	13	135	207	245
SMC0082	SC-80-5-10	5	100	13	135	257	250

精準度/Precision : 0.004mm

SC-96 WITH NUT FIXED CENTER TYPE

SC-96 附螺帽固定型頂針

Application: It is used on CNC Lathe, Tailstock Circumrotate Type and Lathe. This center is made of alloy steel and undergoes heated treatment and grinded HRC 58°-60°.

The wolfram-steelled center welds 20mm depth. It is stable and not easy be abraded.

用途：CNC車床，尾座迴轉型使用，一般車削加工。
本頂針採合金鋼材，經熱處理硬度高達HRC 58°-60°，研磨製成。
頂針頭部鎢鋼焊接20mm深，穩定性佳，不易磨損。



單位/Unit : mm

Code No. 型號	Type 規格	MT	A	B	C	D	D1	D2	L	θ
SMC0083	SC-96-L-3	3	36	17	85	47	24.1	-	138	60°
SMC0084	SC-96-L-4	4	42	20	108	55	31.6	-	170	60°
SMC0085	SC-96-L-5	5	59	16	131	69	45	-	206	60°
SMC0086	SC-96-L-6	6	70	38	182	88	65	-	290	60°
SMC0087	SC-96-TS-3	3	36	17	85	47	24.3	-	138	60°
SMC0088	SC-96-TS-4	4	42	17	108	55	31.6	-	167	60°
SMC0089	SC-96-TS-5	5	54	17	135	69	45	-	206	60°
SMC0091	SC-96-TS06-3	3	60	17	85	47	24.1	6	162	60°
SMC0092	SC-96-TS08-3	3	60	17	85	47	24.1	8	162	60°
SMC0093	SC-96-TS10-3	3	60	17	85	47	24.1	10	162	60°
SMC0094	SC-96-TS16-3	3	60	17	85	47	24.1	16	162	60°
SMC0095	SC-96-TS06-4	4	60	20	108	55	31.6	6	193	60°
SMC0096	SC-96-TS08-4	4	60	20	108	55	31.6	8	193	60°
SMC0097	SC-96-TS10-4	4	60	20	108	55	31.6	10	193	60°
SMC0098	SC-96-TS16-4	4	60	20	108	55	31.6	16	193	60°

精準度/Precision : 0.004mm以內

※Adopt world brand SKF lubricant, LGEP2 ※採用世界名牌SKF潤滑油, LGEP2
※Please do not use hydraulic draws lubricant. ※請勿使用油壓三爪潤滑油

※Adopt world brand SKF lubricant, LGEP2 ※採用世界名牌SKF潤滑油, LGEP2
※Please do not use hydraulic draws lubricant. ※請勿使用油壓三爪潤滑油



End Mill & Face Milling Cutter System 面銑刀及端銑刀系統



A001 CJU Drilling & Milling Endmill CJU型 鑽銑共用端銑刀



A003 EHU High-Speed Endmill EHU型 超快削型端銑刀



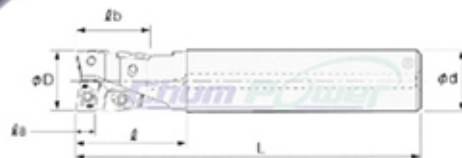
Code No. 型號	Type 規格	D	L	d	l	Teeth 刀數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0002	CJU - 1010 x 130	10	130	10	30	1	CCMT060204	SCR - CJU2.5	T8
SPA0004	CJU - 1012 x 130	10	130	12	35	1			
SPA0006	CJU - 1212 x 130	12	130	12	30	1	CPMT080204Z		
SPA0008	CJU - 1616 x 120	16	120	16	30	2			
SPA0010	CJU - 1616 x 150	16	150	16	40	2			
SPA0012	CJU - 1616 x 175	16	175	16	40	2			
SPA0014	CJU - 1616 x 200	16	200	16	40	2			
SPA0018	CJU - 1716 x 175	17	175	16	40	2			
SPA0020	CJU - 1716 x 200	17	200	16	40	2			
SPA0022	CJU - 2020 x 130	20	130	20	30	2			
SPA0024	CJU - 2020 x 150	20	150	20	40	2			
SPA0026	CJU - 2020 x 185	20	185	20	50	2			
SPA0030	CJU - 2120 x 150	21	150	20	40	2			
SPA0032	CJU - 2120 x 200	21	200	20	40	2			
SPA0034	CJU - 2525 x 130	25	130	25	40	2			
SPA0036	CJU - 2525 x 150	25	150	25	50	2			
SPA0038	CJU - 2525 x 220	25	220	25	70	2			
SPA0042	CJU - 2625 x 200	26	200	25	50	2			
SPA0044	CJU - 2625 x 250	26	250	25	50	2			
SPA0046	CJU - 3232 x 170	32	170	32	50	2			
SPA0048	CJU - 3232 x 250	32	250	32	80	2			
SPA0050	CJU - 3232 x 300	32	300	32	80	2			
SPA0052	CJU - 3232 x 350	32	350	32	80	2			
SPA0058	CJU - 3332 x 250	33	250	32	50	2			
SPA0060	CJU - 3332 x 300	33	300	32	50	2			
							CCMT060204 CPMT080204Z	SCR - CJU2.5	T8
							CCMT060204 CPMT090204Z	SCR - CJU2.5 SCR - CJU3.5	T8, T15
							CPMT090308 CPMT120308Z	SCR - CJU4	T15
							CPMT120408 CPMT160408Z	SCR - CJU5	T20

※Hfcohi inserts recommended
※建議使用Hfcohi銑刀片

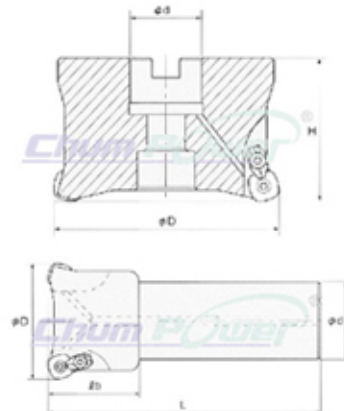
Code No. 型號	Type 規格	ØD	Ød	l	l1	l2	L	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0142	EHU10 - 1616 x 120	16	16	10	30	90	120	2	JDMT1003	SCR - EHU2.5	T8
SPA0144	EHU10 - 1616 x 150	16	16	10	50	100	150	2			
SPA0146	EHU10 - 2020 x 130	20	20	10	30	100	130	3			
SPA0148	EHU10 - 2020 x 150	20	20	10	50	100	150	3			
SPA0150	EHU10 - 2525 x 150	25	25	10	40	110	150	4			
SPA0152	EHU10 - 2525 x 200	25	25	10	60	140	200	4			
SPA0162	EHU15 - 2525 x 150	25	25	15	40	110	150	2			
SPA0164	EHU15 - 2525 x 200	25	25	15	60	140	200	2			
SPA0166	EHU15 - 3025 x 150	30	25	15	40	110	150	2			
SPA0168	EHU15 - 3025 x 200	30	25	15	40	160	200	2			
SPA0170	EHU15 - 3232 x 150	32	32	15	40	110	150	3			
SPA0172	EHU15 - 3232 x 200	32	32	15	60	140	200	3			
SPA0174	EHU15 - 3532 x 150	35	32	15	40	110	150	3			
SPA0176	EHU15 - 3532 x 200	35	32	15	60	140	200	3			

※Hfcohi inserts recommended
※建議使用Hfcohi銑刀片

A004 EHJ Drilling & Milling Endmill
EHJ型 多功能快削型銼刀



A005 ESRF High-Feed Milling Cutter
ESRF型 高效率切削平面銼刀



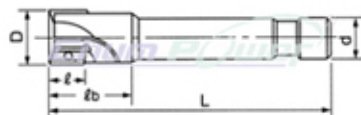
Code No. 型號	Type 規格	ϕD	L	ϕa	ϕb	l	ϕd	Insert 刀片規格	Pcs 數量	Insert 刀片規格	Pcs 數量	Wrench 扳手
SPA0202	EHJ2 - 1616 x 120	16	120	4.5	8.5	33	16	JDMT 080308L	1	JDMT 090308R	1	T6
SPA0204	EHJ2 - 1616 x 175	16	175	4.5	8.5	50	16					
SPA0206	EHJ2 - 1716 x 120	17	120	4.5	8.5	33	16					
SPA0208	EHJ2 - 1716 x 175	17	175	4.5	8.5	33	16					
SPA0210	EHJ2 - 2020 x 130	20	130	5.5	9.5	35	20	JDMT 100308L	1	JDMT 100308R	1	T8
SPA0212	EHJ2 - 2020 x 185	20	185	5.5	9.5	60	20					
SPA0214	EHJ2 - 2120 x 130	21	130	5.5	9.5	35	20					
SPA0216	EHJ2 - 2120 x 185	21	185	5.5	9.5	35	20					
SPA0218	EHJ2 - 2525 x 140	25	140	7	12.5	45	25	JDMT 12T308L	1	JDMT 12T308R	1	T10
SPA0220	EHJ2 - 2525 x 220	25	220	7	12.5	75	25					
SPA0222	EHJ2 - 2625 x 140	26	140	7	12.5	45	25					
SPA0224	EHJ2 - 2625 x 220	26	220	7	12.5	45	25					
SPA0226	EHJ2 - 3232 x 150	32	150	8.5	14.5	50	32	JDMT 160508L	1	JDMT 150508R	1	T15
SPA0228	EHJ2 - 3232 x 230	32	230	8.5	14.5	90	32					
SPA0230	EHJ2 - 3332 x 150	33	150	8.5	14.5	50	32					
SPA0232	EHJ2 - 3332 x 230	33	230	8.5	14.5	50	32					

※Hitachi Inserts recommended
※建議使用Hitachi銼刀片

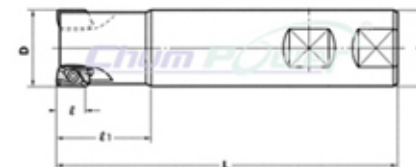
Code No. 型號	Type 規格	ϕD	L	ϕd	ϕb	Teeth 刃數	Insert 刀片規格	Wrench 扳手
SPA0292	ESRF - 3232 x 150	32	150	32	70	2	SDNW120SZDTN - R15 SDNT120SZDTN - R15	T15
SPA0294	ESRF - 3232 x 200	32	200	32	70	2		
SPA0296	ESRF - 3232 x 250	32	250	32	70	2		
SPA0298	ESRF - 4032 x 200	40	200	32	70	3		
SPA0300	ESRF - 4032 x 250	40	250	32	70	3		
SPA0302	ESRF - 4032 x 300	40	300	32	70	3		

※Hitachi Inserts recommended
※建議使用Hitachi銼刀片

A006 CEX High-Speed Endmill
CEX型 快削型端銑刀



A007 CAP300R High-Speed Rough Endmill
CAP300R型 快削型端銑刀



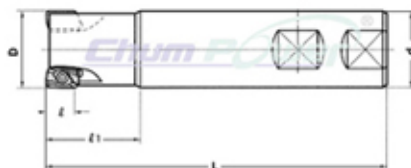
Code No. 型號	Type 規格	D	L	d	l	tb	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0322	CEX - 1212 x 120	12	120	12	12	25	1	APET120204	SCR - CE x 3.5	T15
SPA0324	CEX - 1212 x 150	12	150	12	12	25	1			
SPA0326	CEX - 1616 x 120	16	120	16	12	30	1			
SPA0328	CEX - 1616 x 150	16	150	16	12	30	1			
SPA0330	CEX - 1616 x 180	16	180	16	12	30	1			
SPA0332	CEX - 2020 x 120	20	120	20	12	30	2			
SPA0334	CEX - 2020 x 150	20	150	20	12	30	2			
SPA0336	CEX - 2020 x 200	20	200	20	12	30	2			
SPA0338	CEX - 2525 x 130	25	130	25	15	35	2			
SPA0340	CEX - 2525 x 160	25	160	25	15	35	2			
SPA0342	CEX - 2525 x 200	25	200	25	15	35	2			
SPA0344	CEX - 2525 x 250	25	250	25	15	35	2			
SPA0346	CEX - 3025 x 150	30	150	25	15	45	2			
SPA0350	CEX - 3232 x 150	32	150	32	15	45	3			
SPA0352	CEX - 3232 x 200	32	200	32	15	45	3			
SPA0354	CEX - 3232 x 250	32	250	32	15	45	3			
								ADET160304	SCR - CE x 4	

※Hitachi inserts recommended
※建議使用Hitachi刀片

Code No. 型號	Type 規格	D	d	l1	t	L	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0382	CAP300R - 1010 x 100	10	10	25	9	100	1	APMT 1135PDER	SCR - CAP2.5	T8
SPA0384	CAP300R - 1016 x 100	10	16	25	9	100	1			
SPA0386	CAP300R - 1212 x 100	12	12	25	9	100	1			
SPA0388	CAP300R - 1216 x 100	12	16	25	9	100	1			
SPA0390	CAP300R - 1616 x 120	16	16	25	9	120	2			
SPA0392	CAP300R - 1616 x 160	16	16	25	9	160	2			
SPA0394	CAP300R - 2020 x 120	20	20	30	9	120	2			
SPA0396	CAP300R - 2020 x 150	20	20	30	9	150	2			
SPA0398	CAP300R - 2020 x 200	20	20	30	9	200	2			
SPA0400	CAP300R - 2525 x 150	25	25	35	9	150	4			
SPA0402	CAP300R - 2525 x 200	25	25	35	9	200	4			

※Mitsubishi inserts recommended
※建議使用Mitsubishi刀片

A008 CAP400R High-Speed Rough Endmill
CAP400R型 快削型端銑刀



Code No. 型號	Type 規格	D	d	l1	l	L	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPAD422	CAP400R - 2525 x 150	25	25	35	14	150	2	APMT 1604PDER	SCR - CAP4	T15
SPAD424	CAP400R - 2525 x 200	25	25	35	14	200	2			
SPAD426	CAP400R - 3025 x 150	30	25	45	14	150	2			
SPAD428	CAP400R - 3025 x 200	30	25	45	14	200	2			
SPAD430	CAP400R - 3232 x 150	32	32	45	14	150	3			
SPAD432	CAP400R - 3232 x 200	32	32	60	14	200	3			
SPAD434	CAP400R - 3232 x 250	32	32	60	14	250	3			
SPAD436	CAP400R - 3232 x 300	32	32	60	14	300	3			
SPAD440	CAP400R - 3532 x 150	35	32	45	14	150	3			
SPAD442	CAP400R - 3532 x 200	35	32	45	14	200	3			
SPAD444	CAP400R - 3532 x 250	35	32	45	14	250	3			
SPAD446	CAP400R - 3532 x 300	35	32	45	14	300	3			
SPAD452	CAP400R - 4032 x 150	40	32	45	14	150	3			
SPAD454	CAP400R - 4032 x 200	40	32	45	14	200	3			
SPAD456	CAP400R - 5032 x 150	50	32	45	14	150	4			
SPAD458	CAP400R - 5042 x 150	50	42	45	14	150	4			

※Mitsubishi inserts recommended
※建議使用Mitsubishi銑刀片

A009 CAP400R Face Milling Cutter
CAP400R型 平面銑刀



Fig.1

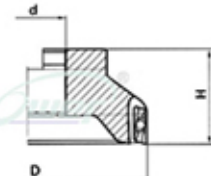
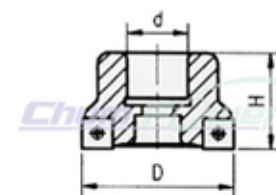


Fig.2

Code No. 型號	Type 規格	D	d	H	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手	Fig. 圖示
SPAD473	CAP400R - FM50	50	22	40	4	APMT1604	SCR-CAP4	T15	1
SPAD474	CAP400R - FM63	63	25.4	40	5				
SPAD475	CAP400R - FM63	63	22	40	5				
SPAD476	CAP400R - FM80	80	25.4	50	6				
SPAD477	CAP400R - FM80	80	27	50	6				
SPAD478	CAP400R - FM100	100	31.75	50	7				
SPAD479	CAP400R - FM100	100	32	50	7				
SPAD480	CAP400R - FM125	125	38.1	50	8				
SPAD481	CAP400R - FM125	125	40	50	8				
SPAD482	CAP400R - FM160	160	38.1	50	10				
SPAD483	CAP400R - FM160	160	40	50	10				

※Metric 公制
※Mitsubishi inserts recommended 建議使用Mitsubishi銑刀片

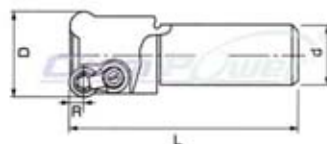
A010 SFM Shoulder Face Milling Cutter
SFM型 直角平面銑刀



Code No. 型號	Type 規格	D	d	H	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0504	SFM - 63	63	25.4	40	5	SPLT - 1204	SCR - SFMS	T20
SPA0506	SFM - 80	80	25.4	45	6			
SPA0508	SFM - 100	100	31.75	50	7			

※Metric 公制
※ISO Code 符合ISO規範

A013 CRS Radius Endmill CRS型 R角端銑刀



A014 CRP Radius Endmill CRP型 R角端銑刀



Code No. 型號	Type 規格	D	L	d	R	Teeth 刃數	Insert 刀片規格	Clamp 壓板	Screw 螺絲	Wrench 扳手
SPA0592	CRS - 4R12 x 120	12	120	12	4	1	RDM10802	CL - 4R	SCR - CRS3	T8
SPA0594	CRS - 4R12 x 150	12	150	12	4	1				
SPA0596	CRS - 4R16 x 120	16	120	16	4	1/2				
SPA0598	CRS - 4R16 x 150	16	150	16	4	1/2				
SPA0600	CRS - 4R20 x 150	20	150	20	4	2				
SPA0602	CRS - 4R20 x 200	20	200	20	4	2				
SPA0604	CRS - 5R25 x 150	25	150	25	5	2				
SPA0606	CRS - 5R25 x 200	25	200	25	5	2				
SPA0608	CRS - 5R25 x 250	25	250	25	5	2				
SPA0610	CRS - 5R25 x 300	25	300	25	5	2				
SPA0612	CRS - 5R30 x 150	30	150	25	5	2	RDM110T3	CL - 5R	SCR - CRS4	T15
SPA0614	CRS - 5R30 x 200	30	200	25	5	2				
SPA0616	CRS - 5R30 x 250	30	250	25	5	2				
SPA0618	CRS - 5R30 x 300	30	300	25	5	2				
SPA0620	CRS - 5R32 x 150	32	150	32	5	3				
SPA0622	CRS - 5R32 x 200	32	200	32	5	3				
SPA0624	CRS - 5R32 x 250	32	250	32	5	3				
SPA0626	CRS - 5R32 x 300	32	300	32	5	3				
SPA0628	CRS - 5R35 x 150	35	150	32	5	3				
SPA0630	CRS - 5R35 x 200	35	200	32	5	3				
SPA0632	CRS - 5R35 x 250	35	250	32	5	3				
SPA0634	CRS - 5R35 x 300	35	300	32	5	3				
SPA0636	CRS - 5R35 x 350	35	350	32	5	3				
SPA0638	CRS - 5R40 x 150	40	150	32	5	3				
SPA0640	CRS - 5R40 x 200	40	200	32	5	3				

※Hitachi inserts recommended
※建議使用Hitachi銑刀片

Code No. 型號	Type 規格	D	R	L	L1	d	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0668	CRP - 5R25 x 150	25	5	150	40	25	2	RPMW - 1003MO	SCR - CRP4 SCR - W3 / 165	T15
SPA0670	CRP - 5R25 x 200	25	5	200	60	25	2			
SPA0672	CRP - 5R25 x 250	25	5	250	60	25	2			
SPA0674	CRP - 5R25 x 300	25	5	300	60	25	2			
SPA0676	CRP - 5R30 x 150	30	5	150	45	25	2			
SPA0678	CRP - 5R30 x 200	30	5	200	45	25	2			
SPA0680	CRP - 5R30 x 250	30	5	250	45	25	2			
SPA0682	CRP - 5R30 x 300	30	5	300	45	25	2			
SPA0684	CRP - 5R35 x 150	35	5	150	45	32	3			
SPA0686	CRP - 5R35 x 200	35	5	200	45	32	3			
SPA0688	CRP - 5R35 x 250	35	5	250	45	32	3			
SPA0690	CRP - 5R35 x 300	35	5	300	45	32	3			
SPA0692	CRP - 5R40 x 150	40	5	150	45	32	3			
SPA0694	CRP - 5R40 x 200	40	5	200	45	32	3			
SPA0698	CRP - 6R35 x 150	35	6	150	45	32	3			
SPA0700	CRP - 6R35 x 200	35	6	200	45	32	3			
SPA0702	CRP - 6R35 x 250	35	6	250	45	32	3			
SPA0704	CRP - 6R40 x 150	40	6	150	45	32	3			
SPA0706	CRP - 6R40 x 200	40	6	200	45	32	3			
SPA0710	CRP - 6R50 x 150	50	6	150	45	32	4			
SPA0712	CRP - 6R50 x 200	50	6	200	45	32	4			

※Mitsubishi inserts recommended
※建議使用Mitsubishi銑刀片

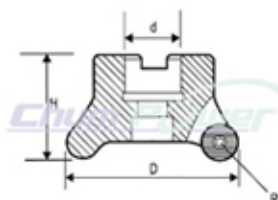
A015 CRT Radius Endmill
CRT型 R角端銑刀



Code No. 型號	Type 規格	D	d	R	L	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0732	CRT - 6R32 x 150	32	32	6	150	2	RPMT 1204MO	SCR - W3/165 SCR - CRT4	T15
SPA0734	CRT - 6R32 x 200	32	32	6	200	2			
SPA0736	CRT - 6R32 x 250	32	32	6	250	2			
SPA0738	CRT - 6R35 x 150	35	32	6	150	3			
SPA0740	CRT - 6R35 x 200	35	32	6	200	3			
SPA0746	CRT - 6R40 x 150	40	32	6	150	3			
SPA0748	CRT - 6R40 x 200	40	32	6	200	3			
SPA0750	CRT - 6R40 x 250	40	32	6	250	3			
SPA0752	CRT - 6R50 x 150	50	32	6	150	4			
SPA0754	CRT - 6R50 x 200	50	32	6	200	4			

※Mitsubishi inserts recommended
※建議使用Mitsubishi銑刀片

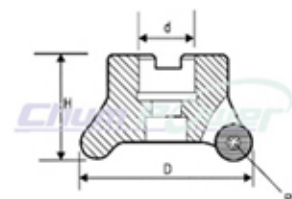
A016 CRS Radius Face Milling Cutter
CRS型 R角平面銑刀



Code No. 型號	Type 規格	D	d	H	R	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Clamp 壓板	Wrench 扳手
SPA0782	CRS - 5R50	50	25.4	45	5	4	RDMT10T3	SCR-CRS4	CL-SR	T15
SPA0783	CRS - 5R50		22							
SPA0784	CRS - 5R63	63	25.4	50	5	5	RDMT1604	SCR-CRS5	CL-8R	T20
SPA0785	CRS - 5R63		22							
SPA0786	CRS - 5R50	50	25.4	45	8	3				
SPA0787	CRS - 5R50		22							
SPA0788	CRS - 5R63	63	25.4	50	8	3/4				
SPA0789	CRS - 5R63		22							
SPA0790	CRS - 5R66	66	25.4	50	8	4				
SPA0791	CRS - 5R66		22							
SPA0792	CRS - 5R80	80	25.4	50	8	5				
SPA0793	CRS - 5R80		27							
SPA0794	CRS - 5R100	100	31.75	55	8	5				
SPA0795	CRS - 5R100		32							
SPA0796	CRS - 5R116	116	31.75	60	8	6				
SPA0797	CRS - 5R116		32							

※Metric 公制 ※Hitachi inserts recommended 建議使用Hitachi銑刀片

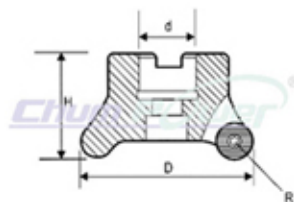
A017 CRP Radius Face Milling Cutter
CRP型 R角平面銑刀



Code No. 型號	Type 規格	D	d	H	R	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0823	CRP - 5R50	50	22	45	5	4	RPMW 1003MO	SCR - CRP4 SCR - W3 / 165	T15
SPA0824	CRP - 5R63	63	25.4	50		5			
SPA0825	CRP - 5R63		22		6	4	RPMW 1203MO		
SPA0826	CRP - 6R50	50	25.4	45					
SPA0828	CRP - 6R63	63	25.4	50		5			

※Metric 公制 ※Mitsubishi inserts recommended 建議使用Mitsubishi銑刀片

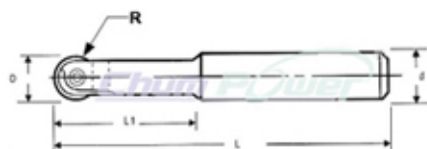
A018 CRT Radius Face Milling Cutter
CRT型 R角平面銑刀



Code No. 型號	Type 規格	D	d	H	R	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0852	CRT - 6R50	50	25.4	45	6	4	RPMT 1204MO	SCR-CR4 SCR-W3/ 165	T15
SPA0853	CRT - 6R50		22						
SPA0854	CRT - 6R63	25.4							
SPA0855	CRT - 6R63	22							
SPA0856	CRT - 6R80	25.4							
SPA0857	CRT - 6R80	27							
SPA0858	CRT - 6R100	31.75							
SPA0859	CRT - 6R100	100	32	55	7				

※Metric ※Mitsubishi inserts recommended
※公制 ※建議使用Mitsubishi銑刀片

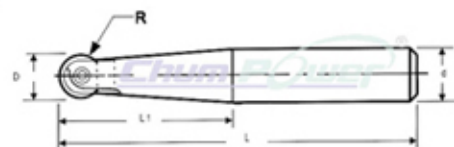
A020 C2139 Ball-Nose Endmill
C2139 球型端銑刀



Code No. 型號	Type 規格	R	D	d	L	L1	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0922	C2139 - 4R8 x 130	4	8	8	130	30	P3200D08	SCR - CR4	T8
SPA0924	C2139 - 5R10 x 130	5	10	10	130	30	P3200D10	SCR - CR5	T15
SPA0926	C2139 - 5R12 x 130	5	10	12	130	30			
SPA0928	C2139 - 6R12 x 130	6	12	12	130	32	P3200D12	SCR - CR6	T20
SPA0930	C2139 - 8R16 x 150	8	16	16	150	36	P3200D16	SCR - CR8	
SPA0932	C2139 - 10R20 x 160	10	20	20	160	45	P3200D20	SCR - CR10	
SPA0934	C2139 - 10R20 x 200	10	20	20	200	45			
SPA0936	C2139 - 12.5R25 x 180	12.5	25	25	180	45	P3200D25	SCR - CR12.5	

※Walter inserts recommended
※建議使用Walter銑刀片

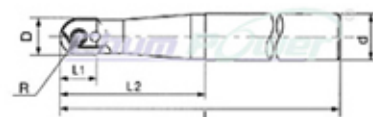
A021 C2139 Ball-Nose Endmill
C2139 加長球型端銑刀



Code No. 型號	Type 規格	R	D	d	L	L1	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA0962	C2139 - 4R12 x 140	4	8	12	140	45	P3200D08	SCR - CR4	T8
SPA0964	C2139 - 5R12 x 150	5	10	12	159	35	P3200D10	SCR - CR5	T15
SPA0966	C2139 - 6R16 x 160	6	12	16	160	58	P3200D12	SCR - CR6	T20
SPA0968	C2139 - 8R20 x 200	8	16	20	200	65	P3200D16	SCR - CR8	
SPA0972	C2139 - 10R25 x 225	10	20	25	225	76	P3200D20	SCR - CR10	
SPA0974	C2139 - 10R25 x 250	10	20	25	250	76			

※Walter inserts recommended
※建議使用Walter銑刀片

A022 CBP Ball-Nose Endmill
CBP 球型端銑刀

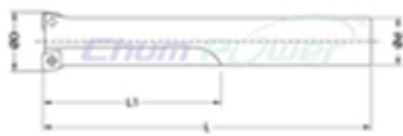


Code No. 型號	Type 規格	R	D	d	L	L1	L2	Insert 刀片規格	Screw(Front) 前螺絲	Screw(Rear) 後螺絲	Wrench 扳手
SPA1002	CBP - 8R16 x 130	8	16	16	130	13	40	ZPPW160	SCR - AR8	SCR - CBP3.5	T15
SPA1004	CBP - 8R20 x 130	8	16	20	130	13	50				
SPA1006	CBP - 8R20 x 160	8	16	20	160	13	65				

※Hitachi inserts recommended
※建議使用Hitachi銑刀片

A023 TB Twin-Blade Boring Bar

TB 固定式雙刃粗鏜刀桿

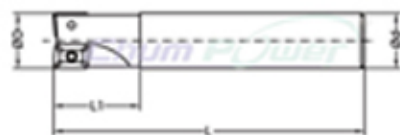


Code No. 型號	Type 規格	D	d	L1	L	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1042	TB - 1516.100	14.7	16	50	98	CCM7060204	SCR - T82.5	T8
SPA1046	TB - 1616.100	15.7	16	50	98			
SPA1050	TB - 1716.100	16.7	16	50	98			
SPA1052	TB - 1816.100	17.7	16	50	98			
SPA1054	TB - 2016.110	19.7	16	60	110			
SPA1056	TB - 2016.150	19.7	16	60	150			
SPA1058	TB - 2216.110	21.7	16	60	110			
SPA1060	TB - 2316.110	22.7	16	60	110			
SPA1062	TB - 2420.120	23.7	20	70	120			
SPA1064	TB - 2520.120	24.7	20	70	120			
SPA1068	TB - 3025.160	30	25	90	160	CCM7091308	SCR - T83.5	T15
SPA1070	TB - 3025.190	30	25	90	190			
SPA1072	TB - 3525.160	35	25	90	160			
SPA1074	TB - 3532.230	35	32	90	230			
SPA1076	TB - 4025.160	40	25	90	160			
SPA1078	TB - 4035.250	40	35	90	250			

※ISO Code
※符合ISO規範

A024 XEM High Efficiency Rough Endmill

XEM 高效率快削型端銼刀

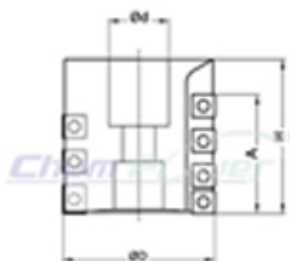


Code No. 型號	Type 規格	ØD	Ød	L1	L	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手			
SPA1102	XEM10 - 1010.100	10	10	30	100	1	APMT1035	SCR - XEM2.5	T8			
SPA1104	XEM10 - 1212.100	12	12	25	100	1						
SPA1106	XEM10 - 1414.80	14	14	25	80	1						
SPA1108	XEM10 - 1616.100	16	16	25	100	2						
SPA1112	XEM10 - 2020.110	20	20	30	110	3						
SPA1114	XEM10 - 2020.150	20	20	50	150	3						
SPA1116	XEM10 - 2525.120	25	25	35	120	4						
SPA1118	XEM10 - 2525.150	25	25	60	150	4						
SPA1122	XEM16 - 2525.150	25	25	60	150	2				APMT1605	SCR - XEM4	T15

※Nachi or Sumitomo inserts recommended
※建議使用Nachi或Sumitomo刀片

A025 RGH Shell-Type Rough Milling Cutter

RGH 粗重切削筒狀銼刀



Code No. 型號	Type 規格	ØD	A	H	Ød	Flute 槽數	Insert 刀片規格	Pcs 數量	Insert 刀片規格	Pcs 數量	Screw 螺絲	Wrench 扳手
SPA1152	RGH - 80 x 31.75	80	47	80	31.75	6	UPMT - 1504	3	SPMT - 1204	18	SCR - RGH	T20
SPA1154	RGH - 80 x 32	80	47	80	32	6	UPMT - 1504	3	SPMT - 1204	18	SCR - RGH	T20

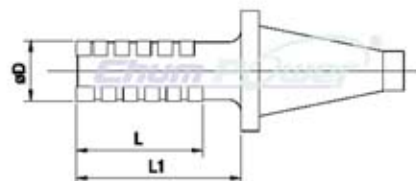
※Walter inserts recommended
※建議使用Walter刀片

A026 RGH BT50/NT50 Rough Milling Cutter
RGH BT50/NT50 一體式粗重銑刀

A027 RGH Rough Milling Cutter
RGH 粗切削銑銑刀

面銑刀及端銑刀系統

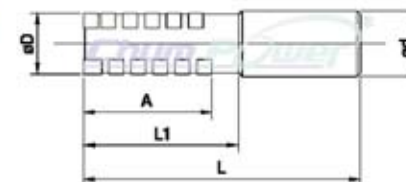
J-17



Code No. 型號	Type 規格	Shank 刀把規格	ØD	L	L1	Flute 槽數	Insert 刀片規格	Pcs 數量	Insert 刀片規格	Pcs 數量		
SPA1172	BT50 - RGH50.77	BT50	50	77	117	4	LPMT	2	SPMT	14		
SPA1174	BT50 - RGH50.97		50	97	137					18		
SPA1176	BT50 - RGH50.127		50	127	167					24		
SPA1178	BT50 - RGH50.157		50	157	197					30		
SPA1182	BT50 - RGH63.87		63	87	127					12		
SPA1184	BT50 - RGH63.107		63	107	147					16		
SPA1186	BT50 - RGH63.158		63	158	198					20		
SPA1188	BT50 - RGH80.107		80	107	147					6	3	30

Screw 螺絲	Wrench 扳手
SCR - RGHS	WRN - T20

※Walter inserts recommended
※建議使用Walter銑刀片



Code No. 型號	Type 規格	ØD	Ød	A	L1	L	Flute 槽數	Insert 刀片規格	Pcs 數量	Insert 刀片規格	Pcs 數量	Screw 螺絲	Wrench 扳手
SPA1236	RGH - 3242 x 150	32	32	42	70	150	2	LPMT 15T308	1	SDNT 090308	5	SCR - RGH4	T15
SPA1238	RGH - 4050 x 155	40	32	50	75	155	4		2		12		
SPA1242	RGH - 5077 x 205	50	50.8	77	115	205	4	LPMT 1504	2	SPMT 1204	14	SCR - RGH5	T20
SPA1244	RGH - 5097 x 225	50	50.8	97	135	225	4		2		18		
SPA1246	RGH - 50127 x 225	50	50.8	127	165	255	4		2		24		
SPA1248	RGH - 50157 x 285	50	50.8	157	195	285	4		2		30		

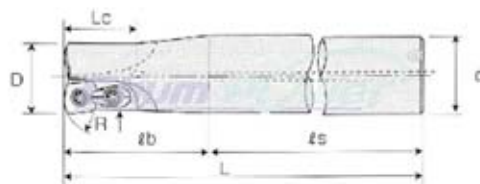
※Walter inserts recommended
※建議使用Walter銑刀片

EndMill & Face Milling Cutter System

J-18

A029 ESR High-Efficiency Endmill
ESR 高效率切削端銑刀

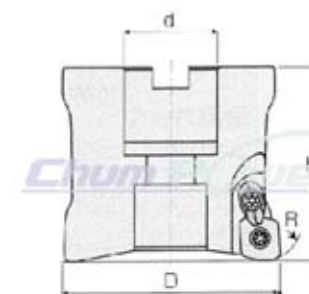
面銑刀及端銑刀系統



Code No. 型號	Type 規格	D	L	R	tb	ts	Lc	d	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Clamp 壓板	Wrench 扳手
SPA1302	ESR - 2020 x 130	20	130	10	50	80	20	20	2	EPNW 0803TN - 10	SCR - ESR3.5	CL - ESR3.5	T15
SPA1304	ESR - 2020 x 180	20	180	10	100	80	20	2					
SPA1308	ESR - 2525 x 140	25	140	10	60	80	25	25	2	EPNW 10T3TN - 10	SCR - ESR4	CL - ESR3.5	T15
SPA1310	ESR - 2525 x 200	25	200	10	120	80	25	2					
SPA1320	ESR - 3232 x 150	32	150	15	70	80	29	32	2	EDNW 13T4TN - 15 EDNW 13T4TN - 10	SCR - ESR5	CL - ESR5	T20
SPA1322	ESR - 3232 x 200	32	200	15	120	80	29	32	2				
SPA1324	ESR - 3232 x 300	32	300	15	180	120	29	32	2				
SPA1326	ESR - 3532 x 150	35	150	15	50	100	-	32	2				
SPA1328	ESR - 3532 x 200	35	200	15	50	150	-	32	2				
SPA1330	ESR - 3532 x 250	35	250	15	50	200	-	32	2				

※Hitachi inserts recommended
※建議使用Hitachi銑刀片

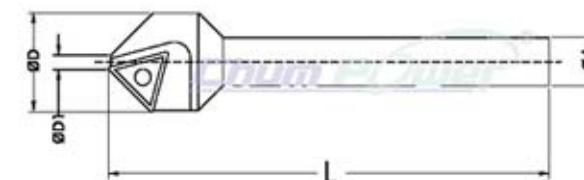
A030 ESR High-Efficiency Milling Cutter
ESR 高效率切削平面銑刀



Code No. 型號	Type 規格	D	H	R	d	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Clamp 壓板	Wrench 扳手
SPA1362	ESR - 50	50	50	15 (10)	22	3	EDNW13T4TN - 15 EDNW13T4TN - 10	SCR - ESR5	CL - ESR5	T20
SPA1364	ESR - 63	63	50	15 (10)	25.4	4				
SPA1366	ESR - 66	66	50	15 (10)	25.4	4	EDNW15T4TN - 15 EDNW15T4TN - 10	SCR - ESR5	CL - ESR5	T20
SPA1368	ESR - 80	80	70	15 (10)	25.4	5				
SPA1370	ESR - 100	100	70	15 (10)	31.75	6				

※Hitachi inserts recommended
※建議使用Hitachi銑刀片

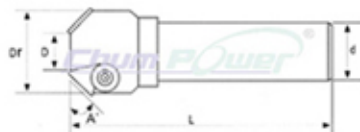
A031 TCM 45° Chamfering Endmill
TCM 45° 倒角刀



Code No. 型號	Type 規格	ØD	ØD1	Ød	L	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1392	TCM - 03 - 25	25	3	12	110	TCMT16T304	SCR - TCM4	T15

※ISO Code
※符合ISO規範

A032 CM 45° Chamfering Endmill CM 45° 倒角刀



Code No. 型號	Type 規格	A°	D	Df	d	L	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1402	CM45 - 0521 x 16	45	5	21	16	120	1	TPUN1603	SCR - W1 / 4	WRN - M4L
SPA1404	CM45 - 1031 x 20	45	10	31	20	120	2			
SPA1406	CM45 - 2050 x 25	45	20	50	25	130	3			
SPA1408	CM45 - 0632 x 32	45	6	32	32	190	1			
SPA1410	CM45 - 2050 x 32	45	20	50	32	150	3	TPUN2204	SCR - W5 / 16	WRN - M5L
SPA1412	CM45 - 3563 x 25	45	35	63	25	190	3			
SPA1414	CM45 - 3563 x 32	45	35	63	32	190	3			

※ISO Code
※符合ISO規範

A033 CH Bolt Countersink Endmill CH 螺絲頭沉孔銑刀

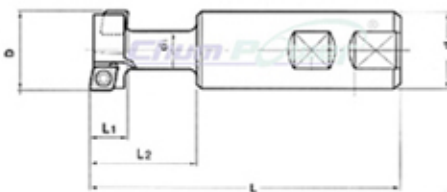


Code No. 型號	Type 規格	D	L	L1	D1	d	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1432	CH - 8 - 14 - 25	14	108	21	2.9	25	1	CCMT 060204	SCR - CJU2.5	T8
SPA1434	CH - 10 - 17.5 - 25	17.5	115	26	5.3	25	2			
SPA1436	CH - 12 - 20 - 25	20	120	30	7.8	25	2			
SPA1438	CH - 14 - 23 - 25	23	126	34.5	10.8	25	2			
SPA1440	CH - 16 - 26 - 32	26	132	39	8.5	32	2	CPMT 090308	SCR - CJU3.5	T15
SPA1442	CH - 18 - 29 - 32	29	138	43.5	11.5	32	2			
SPA1444	CH - 20 - 32 - 32	32	144	49	14.5	32	2			

※Hiachi inserts recommended
※建議使用Hiachi刀片

※ISO Code
※符合ISO規範

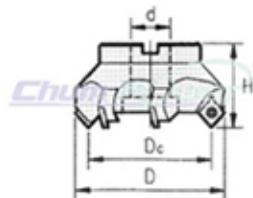
A034 TS T-Slot Endmill TS T型槽銑刀



Code No. 型號	Type 規格	D	L1	d	d1	L2	L	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1442	TS - 24 - 11 - 20	24	11	20	12	29	90	4	CCMT - 060204	SCR - T52.5	T8
SPA1444	TS - 31 - 14 - 25	31	14	25	15	42	110	4	CPMT - 0802042	SCR - T54	T15
SPA1466	TS - 39 - 18 - 32	39	18	32	19	49	120	4	CPMT - 090308	SCR - T55	T20
SPA1468	TS - 49 - 22 - 32	49	22	32	25	60	140	4	CPMT - 120408	SCR - T55	T20

※ISO Code
※符合ISO規範

A035 SE 45° High-Speed Face Milling Cutter SE 45° 高速平面銑型銑刀

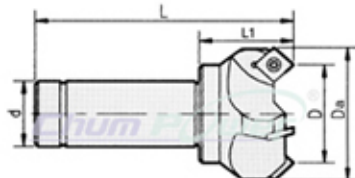


Code No. 型號	Type 規格	Dc	D	d	H	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1493	SE - 50 x 4T	50	60	22	45	4	SEK1204	SCR - SE5	T20
SPA1494	SE - 63 x 5T	63	75	1"	50	5			
SPA1495	SE - 63 x 5T			27					
SPA1496	SE - 80 x 6T	80	96	1"	55	6			
SPA1497	SE - 80 x 6T			27					
SPA1498	SE - 100 x 6T	100	116	1-1/4"	55	6			
SPA1499	SE - 100 x 6T			32					
SPA1500	SE - 125 x 8T	125	141	1-1/2"	60	8			
SPA1501	SE - 125 x 8T			40					
SPA1502	SE - 150 x 10T	150	158	2"	60	10			
SPA1503	SE - 150 x 10T			40					
SPA1504	SE - 200 x 12T	200	212	1-7/8"	60	12			

※Metric
※公制

※ISO Code
※符合ISO規範

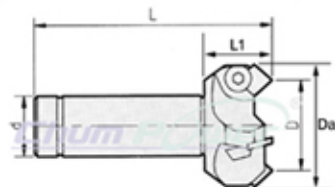
A036 SE 45° High-Speed Face Milling Cutter SE 45°高速銑刀



Code No. 型號	Type 規格	D	Da	d	L	L1	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1522	SE - 5032 x 150	50	62	32	150	45	4	SEKT1204	SCR - SE5	T20
SPA1524	SE - 5025 x 120	50	62	25	120	45	4			
SPA1526	SE - 6332 x 150	63	74	32	150	45	5			
SPA1528	SE - 6325 x 120	63	74	25	120	45	5			

※ISO Code
※符合ISO規範

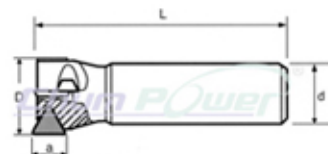
A037 SE445 Face Milling Cutter SE445型 高速平面銑刀



Code No. 型號	Type 規格	D	Da	d	L	L1	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1552	SE445 - 50 x 150	50	62	32	150	45	3	SEKN1203	SCR - W1 / 4L	WRN - M4T
SPA1554	SE445 - 63 x 150	63	74	32	150	45	4			

※ISO Code
※符合ISO規範

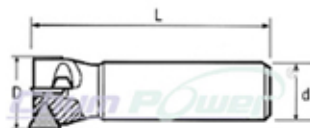
A038 TPR Shoulder Endmill TPR 直角端銑刀



Code No. 型號	Type 規格	D	d	L	α	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1572	TPR - 1616 x 110	16	16	110	11	1	TPMN110308	SCR - W3 / 16	WRN - M3L
SPA1576	TPR - 2020 x 110	20	20	110	11	2	TPMN110308		
SPA1580	TPR - 2525 x 110	25	25	110	11	2	TPMN110308		
SPA1582	TPR - 3020 x 130	30	20	130	16	2	TPMN160308	SCR - W1 / 4	WRN - M4L
SPA1584	TPR - 3025 x 130	30	25	130	16	2			
SPA1592	TPR - 3520 x 130	35	20	130	16	2			
SPA1594	TPR - 3525 x 130	35	25	130	16	2			
SPA1596	TPR - 3532 x 150	35	32	150	16	2			
SPA1606	TPR - 4020 x 130	40	20	130	16	3			
SPA1608	TPR - 4025 x 130	40	25	130	16	3			
SPA1610	TPR - 4032 x 150	40	32	150	16	3			
SPA1620	TPR - 4520 x 130	45	20	130	16	3			
SPA1622	TPR - 4525 x 130	45	25	130	16	3			
SPA1624	TPR - 4532 x 150	45	32	150	16	3			
SPA1626	TPR - 5020 x 130	50	20	130	16	3			
SPA1628	TPR - 5025 x 130	50	25	130	16	3			
SPA1630	TPR - 5032 x 150	50	32	150	16	3			
SPA1632	TPR - 5032 x 200	50	32	200	16	3			
SPA1638	TPR - 6332 x 150	63	32	150	16	4			

※ISO Code
※符合ISO規範

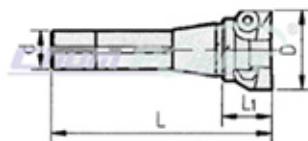
A039 TPR22 Shoulder Endmill
TPR22 直角端銑刀



Code No. 型號	Type 規格	D	d	L	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1662	TPR22 - 5032 x 150	50	32	150	3	TPMN2204 TPKN2204PPR	SCR-W5/16	WRE-MSL

※ISO Code
※符合ISO規範

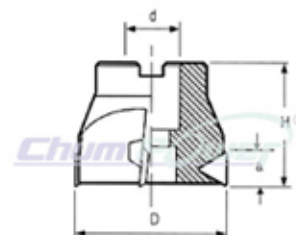
A040 TPR R8-Shank Shoulder Endmill
TPR R8柄直角端銑刀



Code No. 型號	Type 規格	D	L	L1	d	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1702	TPR - R8 x 1"	1"	145	45	24	2	TPMN1103	SCR - W3 / 16	WRN - M3L
SPA1704	TPR - R8 x 1 - 1 / 4"	1 - 1 / 4"	145	45	24	2	TPMN1603	SCR - W1 / 4	WRN - M4L
SPA1706	TPR - R8 x 1 - 1 / 2"	1 - 1 / 2"	145	45	24	3			
SPA1710	TPR - R8 x 2"	2"	145	45	24	3			
SPA1712	TPR - R8 x 2 - 1 / 2"	2 - 1 / 2"	145	45	24	4			
SPA1714	TPR - R8 x 3"	3"	145	45	24	5			

※ISO Code
※符合ISO規範

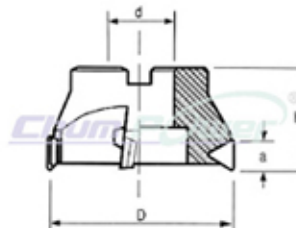
A041 TPR Shoulder Face Milling Cutter
TPR 直角平面銑刀



Code No. 型號	Type 規格	D	d	H	a	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA1732	TPR - 50W / 5	50	22	50	16	3	TPMN1603	SCR - W1 / 4	WRN - M4L
SPA1734	TPR - 63W / 5	63	25.4	50	16	4			

※ISO Code
※符合ISO規範

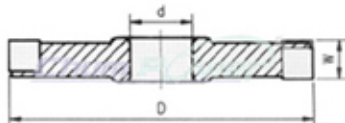
A042 TPR Shoulder Face Milling Cutter
TPR 直角平面銑刀



Code No. 型號	Type 規格	D	d	H	a	Teeth 刃數	Insert 刀片規格	Shim 墊片	Clamp Screw 壓板螺絲	Wrench 扳手	Screw 螺絲
SPA1752	TPR - 63	63	25.4	50	22	3	TPMN2204 TPKN2204PPR	ST - T	SCR - W5 / 16	WRN - M5L	SCR - ST - T4
SPA1754	TPR - 80	80	25.4	50	22	4					
SPA1756	TPR - 100	100	31.75	55	22	5					
SPA1758	TPR - 125	125	38.1	60	22	6					
SPA1760	TPR - 160	160	50.8	60	22	7					
SPA1762	TPR - 200	200	47.625	60	22	8					
SPA1764	TPR - 250	250	47.625	60	22	9					
SPA1766	TPR - 300	300	47.625	60	22	10					

※ISO Code
※符合ISO規範

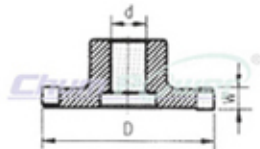
A043 SC Side Milling Cutter SC 千鳥型銑刀



Code No. 型號	Type 規格	D	d	W	Teeth 刃數	Insert 刀片規格	Clamp 壓板	Screw 螺絲	Wrench 扳手
SPA1792	SC - 100 x 16	100	1"	16	10	SPUN 120304	CL-5 CL-SL	SCR-CLS/16	WRN-MAT
SPA1794	SC - 125 x 16	125	1"	16	14				
SPA1796	SC - 150 x 16	150	1"	16	16				
SPA1798	SC - 200 x 16	200	31.75	16	20				

※ISO Code
※符合ISO規範

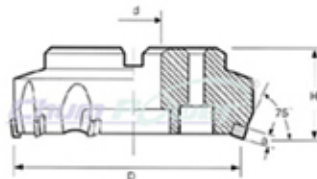
A044 SCT T-Type Side Milling Cutter SCT T型側銑刀



Code No. 型號	Type 規格	D	d	W	Teeth 刃數	Insert 刀片規格	Clamp 壓板	Screw 螺絲	Wrench 扳手
SPA1822	SCT - 100 x 16	100	1"	16	10	SPUN-1203	CL-5 CL-SL	SCR-CLS/16	WRN-MAT
SPA1824	SCT - 125 x 16	125	1-1/4"	16	14				
SPA1826	SCT - 125 x 20	125	1-1/4"	20	14				
SPA1828	SCT - 150 x 16	150	1-1/4"	16	16				
SPA1830	SCT - 150 x 20	150	1-1/4"	20	16	SPUN-1504	CL-5 CL-SL	SCR-CLS/16	WRN-MAT
SPA1832	SCT - 200 x 20	200	1-1/4"	20	20				
SPA1834	SCT - 200 x 25	200	1-1/4"	25	20				

※ISO Code
※符合ISO規範

A045 FP 75° Face Milling Cutter FP 75°平面銑刀

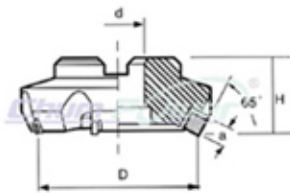


Code No. 型號	Type 規格	D	d	H	a	Teeth 刃數
SPA1852	FP - 3	80	25.4	50	12	5
SPA1854	FP - 4	100	31.75	55	12	6
SPA1856	FP - 5	125	38.1	60	12	8
SPA1858	FP - 6	160	50.8	60	12	10
SPA1860	FP - 8	200	47.625	60	12	12
SPA1862	FP - 10	250	47.625	60	12	16
SPA1864	FP - 12	300	47.625	60	12	20

※ISO Code
※符合ISO規範

Insert 刀片規格	Clamp Screw 壓板螺絲	Clamp 壓板	Shim Screw 墊片螺絲	Shim 墊片	Wrench 扳手
SPUN - 120308 SPUN - 1203EDR	SCR- CLS/16	CL-5	SCR- ST-54	ST-5	WRN- MAT

A046.A047 535,435 25° Face Milling Cutter 535,435 25°平面銑刀



Code No. 型號	Type 規格	D	d	H	a	Teeth 刃數
SPA1882	CLS-5	80	25.4	50	15	5
SPA1884	CLS-5	100	31.75	55	15	5
SPA1886	CLS-5	125	38.1	60	15	6
SPA1888	CLS-5	160	50.8	60	15	8
SPA1890	CLS-5	200	47.625	60	15	10
SPA1892	CLS-5	250	47.625	60	15	12
SPA1894	CLS-5	300	47.625	60	15	14

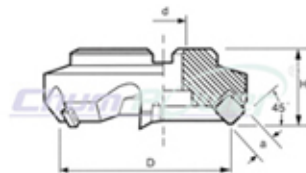
Clamp Screw 壓板螺絲	Clamp 壓板	Shim Screw 墊片螺絲	Shim 墊片	Wrench 扳手
SCR-CLS/16	CL-5	SCR-ST-54	ST-5	WRN-MAT

※ISO Code
※符合ISO規範

Code No. 型號	Type 規格	D	d	H	a	Teeth 刃數
SPA1912	CL4-5	80	25.4	50	12	6/5
SPA1914	CL4-5	100	31.75	55	12	8/5
SPA1916	CL4-5	125	38.1	60	12	10/6
SPA1918	CL4-5	160	50.8	60	12	12/8
SPA1920	CL4-5	200	47.625	60	12	14/10
SPA1922	CL4-5	250	47.625	60	12	16/12
SPA1924	CL4-5	300	47.625	60	12	20/14

Insert for CLS-5 刀片規格	Insert for CL4-5 刀片規格
SPUN 1504	SPUN 1204

A048.A049 545,445 45° Face Milling Cutter 545,445 45°平面銑刀



Code No. 型號	Type 規格	D	d	H	a	Teeth 刃數
SPA1942	CL5-S	80	25.4	50	15	5
SPA1944	CL5-S	100	31.75	55	15	5
SPA1946	CL5-S	125	38.1	60	15	6
SPA1948	CL5-S	160	50.8	60	15	8
SPA1950	CL5-S	200	47.625	60	15	10
SPA1952	CL5-S	250	47.625	60	15	12
SPA1954	CL5-S	300	47.625	60	15	14

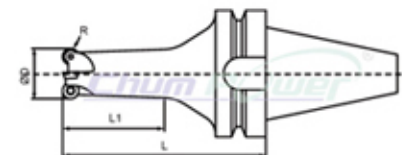
Code No. 型號	Type 規格	D	d	H	a	Teeth 刃數
SPA1972	CL4-S	80	25.4	50	12	5
SPA1974	CL4-S	100	31.75	55	12	5
SPA1976	CL4-S	125	38.1	60	12	6
SPA1978	CL4-S	160	50.8	60	12	8
SPA1980	CL4-S	200	47.625	60	12	10
SPA1982	CL4-S	250	47.625	60	12	12
SPA1984	CL4-S	300	47.625	60	12	14

Clamp Screw 壓板螺絲	Clamp 壓板	Shim Screw 墊片螺絲	Shim 墊片	Wrench 扳手
SCR-CL5 / 16	CL-S	SCR-ST-S4	ST-S	WRN-M4T

※ISO Code
※符合ISO規範

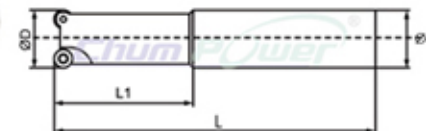
Insert for CL4-S 刀片規格		Insert for CL5-S 刀片規格	
SEKN-1203		SEKN-1504	

A050 X-POWER Radius Milling Cutter X-POWER 一體式圓刀刃銑刀



Code No. 型號	Type 規格	ØD	L	L1	R	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2002	BT40 - XQP0820.90.3	20	90	40	4	3	QPMT0803	SCR - QP3	T8
SPA2004	BT40 - XQP0825.100.4	25	100	50	4	4			
SPA2006	BT40 - XQP0825.130.4	25	130	80	4	4			
SPA2008	BT40 - XQP1025.100.3	25	100	50	5	3			
SPA2010	BT40 - XQP1032.100.4	32	100	50	5	4	QPMT10T3	SCR - QP3.5	T15
SPA2012	BT40 - XQP1032.130.4	32	130	80	5	4			

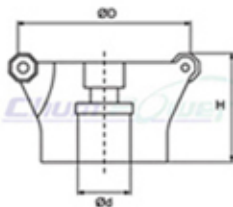
A051 C2334 Radius Endmill C2334型 R角端銑刀



Code No. 型號	Type 規格	ØD	Ød	L1	L	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2032	C2334 - 4R2020.120	20	20	50	120	3	ROMX0803	SCR - RO3	T10
SPA2034	C2334 - 4R2525.140	25	25	60	140	3			
SPA2036	C2334 - 4R3232.170	32	32	80	170	4			

※Walter inserts recommended
※建議使用Walter刀片

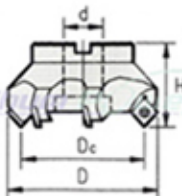
A052 C2280 Octagon Face Milling Cutter
C2280 八角平面銑刀



Code No. 型號	Type 規格	ØD	Ød	H	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2062	C2280-50 x 22	50	22.0	40	4	ODM70504 OCH70504	SCR-002.5	T15
SPA2064	C2280-63 x 25.4	63	25.4	40	6			
SPA2066	C2280-63 x 22	63	22.0	40	6			
SPA2068	C2280-80 x 25.4	80	25.4	50	7			
SPA2070	C2280-80 x 27	80	27.0	50	7			
SPA2072	C2280-100 x 31.75	100	31.75	50	8			
SPA2074	C2280-100 x 32	100	32.0	50	8			
SPA2076	C2280-125 x 38.1	125	38.1	63	10			
SPA2078	C2280-125 x 40	125	40.0	63	10			
SPA2080	C2280-160 x 50.8	160	50.8	63	12			
SPA2082	C2280-160 x 40	160	40.0	63	12			
SPA2084	C2280-200 x 47.625	200	47.625	63	14			
SPA2086	C2280-200 x 60	200	60.0	63	14			

Water inserts recommended
建議使用Water刀片

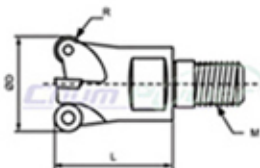
A053 SE13 High Speed Face Milling Cutter
SE13 高速平面銑型銑刀



Code No. 型號	Type 規格	ØD	Ød	H	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2102	SE13-63 x 25.4	63	25.4	40	5	SEM1313	SCR-SE4	T20
SPA2104	SE13-63 x 22	63	22	40	5			
SPA2106	SE13-80 x 25.4	80	25.4	50	6			
SPA2108	SE13-80 x 27	80	27	50	6			
SPA2110	SE13-100 x 31.75	100	31.75	50	6			
SPA2112	SE13-100 x 32	100	32	50	6			
SPA2114	SE13-125 x 38.1	125	38.1	63	8			
SPA2116	SE13-125 x 40	125	40	63	8			
SPA2118	SE13-150 x 50.8	160	50.8	63	10			
SPA2120	SE13-150 x 40	150	40	63	10			
SPA2122	SE13-200 x 47.62	200	47.625	63	12			
SPA2124	SE13-200 x 60	200	60	63	12			

Mitsubishi or Sandvik inserts recommended
建議使用Mitsubishi/Sandvik刀片

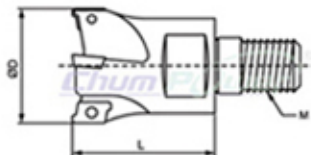
A054 RD Radius Corner Modular Endmill
RD型 模組化R角銑刀



Code No. 型號	Type 規格	ØD	L	M	R	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2142	RD05-1002M5	10	18	M5	2.5	2	RDHW0501	SCR-RD2.0	T6
SPA2144	RD05-1102M5	11	18	M5	2.5	2			
SPA2146	RD05-1202M6	12	19	M6	2.5	3			
SPA2148	RD05-1302M6	13	19	M6	2.5	3			
SPA2150	RD07-1403M8	14	23	M8	3.5	3			
SPA2152	RD07-1703M8	17	23	M8	3.5	3			
SPA2154	RD07-2003M10	20	30	M10	3.5	3			
SPA2156	RD07-2103M10	21	30	M10	3.5	3			
SPA2158	RD07-2504M12	25	35	M12	3.5	4			
SPA2160	RD07-2505M12	25	35	M12	3.5	5			
SPA2162	RD07-2404M12	24	35	M12	3.5	4			
SPA2164	RD07-3505M16	35	43	M16	3.5	5	RDMT1003	SCR-RD3.5	T15
SPA2166	RD10-35020M16	35	43	M16	5	3			
SPA2168	RD10-3504M16	35	43	M16	5	4			

Safety inserts recommended
建議使用Safety刀片

A055 RT Lighting Modular Endmill
RT型 模組化精面加工銑刀

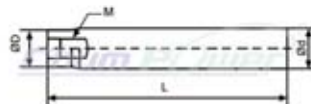


Code No. 型號	Type 規格	ØD	L	M	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2192	RT07-1002M5-KNS	10	18	M5	2	RT0702	SCR-RT2.0	T6
SPA2194	RT07-1102M5-KNS	11	18	M5	2			
SPA2196	RT07-1202M6-KNS	12	19	M6	2			
SPA2198	RT07-1302M6-KNS	13	19	M6	2			
SPA2200	RT07-1403M8-KNS	14	25	M8	3			
SPA2202	RT07-1703M8-KNS	17	25	M8	3			
SPA2204	RT10-1402M8-KNS	16	25	M8	2			
SPA2206	RT10-1702M8-KNS	17	25	M8	2			
SPA2208	RT10-2003M10-KNS	20	30	M10	3			
SPA2210	RT10-2103M10-KNS	21	30	M10	3			
SPA2212	RT10-2503M12-KNS	25	35	M12	3	RT1003	SCR-RT2.5	T8
SPA2214	RT10-2403M12-KNS	24	35	M12	3			
SPA2216	RT10-3504M16-KNS	35	43	M16	4			

Safety inserts recommended
建議使用Safety刀片

A056 EXT Modular Extension Bar

EXT型 模組化延長桿



Code No. 型號	Type 規格	øD	ød	M	L
SPA2242	EXT - D10M5 - 100	9.5	10	M5	100
SPA2244	EXT - D12M6 - 100	11.5	12	M6	100
SPA2246	EXT - D16M8 - 130	14	16	M8	130
SPA2248	EXT - D16M8 - 180	14	16	M8	180
SPA2250	EXT - D20M10 - 130	18	20	M10	130
SPA2252	EXT - D20M10 - 180	18	20	M10	180
SPA2254	EXT - D25M12 - 200	23	25	M12	200
SPA2256	EXT - D25M12 - 250	23	25	M12	250
SPA2258	EXT - D25M12 - 300	23	25	M12	300
SPA2260	EXT - D32M16 - 200	29	32	M16	200
SPA2262	EXT - D32M16 - 250	29	32	M16	250
SPA2264	EXT - D32M16 - 300	29	32	M16	300
SPA2266	EXT - D32M16 - 350	29	32	M16	350

A057 RD Radius Corner Endmill

RD型 R角端銑刀



Code No. 型號	Type 規格	øD	ød	L	L1	R	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2292	RD05 - 1002.10 x 100KNS	10	10	100	30	2.5	2	RDWH0501	SCR-RD2.0	T6
SPA2294	RD05 - 1102.10 x 100KNS	11	10	100	30	2.5	2			
SPA2296	RD05 - 1203.12 x 100KNS	12	12	100	30	2.5	3			
SPA2298	RD05 - 1303.12 x 100KNS	13	12	100	30	2.5	3			
SPA2300	RD07 - 1603.16 x 150KNS	16	16	150	30	3.5	3	RDWT0702	SCR-RD2.5	T8
SPA2302	RD07 - 1703.16 x 150KNS	17	16	150	30	3.5	3			
SPA2304	RD07 - 1703.16 x 200KNS	17	16	200	30	3.5	3			
SPA2306	RD07 - 2003.20 x 150KNS	20	20	150	30	3.5	3			
SPA2308	RD07 - 2103.20 x 150KNS	21	20	150	30	3.5	3	RDWT1003	SCR-RD3.5	T15
SPA2310	RD07 - 2103.20 x 200KNS	21	20	200	30	3.5	3			
SPA2312	RD07 - 2504.25 x 150KNS	25	25	150	30	3.5	4			
SPA2314	RD07 - 2604.25 x 150KNS	26	25	150	30	3.5	4			
SPA2316	RD07 - 2604.25 x 200KNS	26	25	200	30	3.5	4	RDWT1003	SCR-RD3.5	T15
SPA2318	RD10 - 35C03.32 x 150KNS	35	32	150	50	5.0	3			
SPA2320	RD10 - 35C03.32 x 200KNS	35	32	200	50	5.0	3			
SPA2322	RD10 - 35C03.32 x 250KNS	35	32	250	50	5.0	3			
SPA2324	RD10 - 35C03.32 x 300KNS	35	32	300	50	5.0	3	RDWT1003	SCR-RD3.5	T15
SPA2326	RD10 - 35C04.32 x 150KNS	35	32	150	50	5.0	4			
SPA2328	RD10 - 35C04.32 x 200KNS	35	32	200	50	5.0	4			

※Safety inserts recommended
※建議使用Safety刀片

A058 RT Lightning Endmill

RT型 精面加工端銑刀

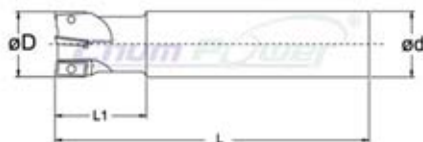


Code No. 型號	Type 規格	øD	ød	L	L1	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2352	RT07 - 1002.10 x 120KNS	10	10	120	30	2	RT0702	SCR-RD2.5	T6
SPA2354	RT07 - 1102.10 x 120KNS	11	10	120	30	2			
SPA2356	RT07 - 1202.12 x 130KNS	12	12	130	30	2			
SPA2358	RT07 - 1302.12 x 130KNS	13	12	130	30	2			
SPA2360	RT07 - 1603.16 x 150KNS	16	16	150	30	3			
SPA2362	RT07 - 1703.16 x 150KNS	17	16	150	30	3			
SPA2364	RT10 - 1602.16 x 150KNS	16	16	150	50	2	RT1003	SCR-RD2.5	T8
SPA2366	RT10 - 1702.16 x 150KNS	17	16	150	50	2			
SPA2368	RT10 - 1702.16 x 200KNS	17	16	200	50	2			
SPA2370	RT10 - 2003.20 x 150KNS	20	20	150	50	3			
SPA2372	RT10 - 2103.20 x 150KNS	21	20	150	50	3			
SPA2374	RT10 - 2103.20 x 200KNS	21	20	200	50	3			
SPA2376	RT10 - 2103.20 x 250KNS	21	20	250	50	3			
SPA2378	RT10 - 2503.25 x 200KNS	25	25	200	50	3			
SPA2380	RT10 - 2603.25 x 150KNS	26	25	150	50	3			
SPA2382	RT10 - 2603.25 x 200KNS	26	25	200	50	3			
SPA2384	RT10 - 2603.25 x 250KNS	26	25	250	50	3			
SPA2386	RT10 - 2603.25 x 300KNS	26	25	300	50	3			
SPA2388	RT10 - 3504.32 x 150KNS	35	32	150	50	4			
SPA2390	RT10 - 3504.32 x 200KNS	35	32	200	50	4			
SPA2392	RT10 - 3504.32 x 250KNS	35	32	250	50	4			
SPA2394	RT10 - 3504.32 x 300KNS	35	32	300	50	4			

※Safety inserts recommended
※建議使用Safety刀片



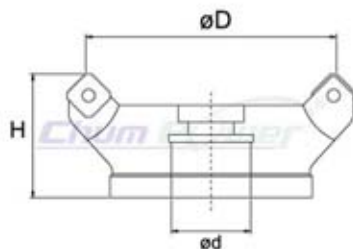
A059 APX High-Speed Rough Endmill APX型 高速端銑刀



Code No. 型號	Type 規格	$\varnothing D$	$\varnothing d$	L	L1	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2412	APX12-1616 x 120	16	16	120	24	2	AQMT 123608	SCR-APX2.5	T8
SPA2414	APX12-1616 x 150	16	16	150	24	2			
SPA2416	APX12-1716 x 150	17	16	150	24	2			
SPA2418	APX12-2020 x 150	20	20	150	29	3			
SPA2420	APX12-2120 x 150	21	20	150	29	3			
SPA2422	APX12-2120 x 200	21	20	200	29	3			
SPA2424	APX12-2525 x 150	25	25	150	34	4			
SPA2426	APX12-2525 x 200	25	25	200	34	4			
SPA2428	APX12-2625 x 200	26	25	200	34	4			

※Mitsubishi inserts recommended
※建議使用Mitsubishi 刀片

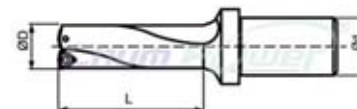
A060 C4033 Powerful Face Milling Cutter C4033 強力平面銑刀



Code No. 型號	Type 規格	$\varnothing D$	$\varnothing d$	H	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2452	C4033-50 x 22	50	22.0	40	4	SNMx1205 SNGx1205	SCR-SN3.5	T15
SPA2454	C4033-63 x 25.4	63	25.4	40	6			
SPA2456	C4033-63 x 22	63	22.0	40	6			
SPA2458	C4033-80 x 25.4	80	25.4	50	6			
SPA2460	C4033-80 x 27	80	27.0	50	6			
SPA2462	C4033-100 x 31.75	100	31.75	50	8			
SPA2464	C4033-100 x 32	100	32.0	50	8			
SPA2466	C4033-125 x 38.1	125	38.1	63	10			
SPA2468	C4033-125 x 40	125	40.0	63	10			
SPA2470	C4033-160 x 50.8	160	50.8	63	12			
SPA2472	C4033-160 x 40	160	40.0	63	12			
SPA2474	C4033-200 x 47.625	200	47.625	63	18			
SPA2476	C4033-200 x 60	200	60.0	63	18			

※Walter inserts recommended
※建議使用Walter 刀片

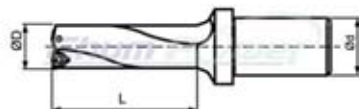
A062 EXD Power Super Drill 3D EXD型 快速鑽(3倍)



Code No. 型號	Type 規格	$\varnothing D$	$\varnothing d$	L	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2562	EXD-14 x 3-25	14	25	42	WCMX030208	SCR-EXD2.5	T8
SPA2564	EXD-15 x 3-25	15	25	45			
SPA2566	EXD-16 x 3-25	16	25	48			
SPA2568	EXD-17 x 3-25	17	25	51			
SPA2570	EXD-18 x 3-25	18	25	54			
SPA2572	EXD-19 x 3-25	19	25	57			
SPA2574	EXD-20 x 3-25	20	25	60	WCMX040208	SCR-EXD2.5	T8
SPA2576	EXD-21 x 3-32	21	32	63			
SPA2578	EXD-22 x 3-32	22	32	66			
SPA2580	EXD-23 x 3-32	23	32	69			
SPA2582	EXD-24 x 3-32	24	32	72			
SPA2584	EXD-25 x 3-32	25	32	75			
SPA2586	EXD-26 x 3-32	26	32	78	WCMX050308	SCR-EXD3	T8
SPA2588	EXD-27 x 3-32	27	32	81			
SPA2590	EXD-28 x 3-32	28	32	84			
SPA2592	EXD-29 x 3-32	29	32	87			
SPA2594	EXD-30 x 3-32	30	32	90			
SPA2596	EXD-31 x 3-32	31	32	93			
SPA2598	EXD-32 x 3-32	32	32	96	WCMX06T308	SCR-EXD3.5	T15
SPA2600	EXD-33 x 3-32	33	32	99			
SPA2602	EXD-34 x 3-32	34	32	102			
SPA2604	EXD-35 x 3-32	35	32	105			
SPA2606	EXD-36 x 3-32	36	32	108			
SPA2608	EXD-37 x 3-32	37	32	111			
SPA2610	EXD-38 x 3-32	38	32	114	WCMX06T308	SCR-EXD3.5	T15
SPA2612	EXD-39 x 3-32	39	32	117			
SPA2614	EXD-40 x 3-40	40	40	120			
SPA2616	EXD-41 x 3-40	41	40	123			
SPA2618	EXD-42 x 3-40	42	40	126			
SPA2620	EXD-43 x 3-40	43	40	129			
SPA2622	EXD-44 x 3-40	44	40	132	WCMX080408	SCR-EXD4	T15
SPA2624	EXD-45 x 3-40	45	40	135			
SPA2626	EXD-46 x 3-40	46	40	138			
SPA2628	EXD-47 x 3-40	47	40	141			
SPA2630	EXD-48 x 3-40	48	40	144			
SPA2632	EXD-49 x 3-40	49	40	147			
SPA2634	EXD-50 x 3-40	50	40	150	WCMX06T3084T	SCR-EXD3.5	T15
SPA2636	EXD-51 x 3-40	51	40	153			
SPA2638	EXD-52 x 3-40	52	40	156			
SPA2640	EXD-53 x 3-40	53	40	159			
SPA2642	EXD-54 x 3-40	54	40	162			
SPA2644	EXD-55 x 3-40	55	40	165			
SPA2646	EXD-56 x 3-40	56	40	168			
SPA2648	EXD-57 x 3-40	57	40	171			
SPA2650	EXD-58 x 3-40	58	40	174			
SPA2652	EXD-59 x 3-40	59	40	177			
SPA2654	EXD-60 x 3-40	60	40	180			

※ISO Code
※符合ISO規範

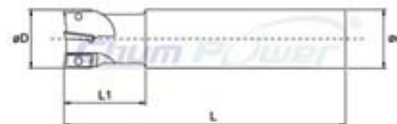
A063 EXD Power Super Drill 4D EXD型 快速鑽(4倍)



Code No. 型號	Type 規格	ϕD	ϕd	L	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2672	EXD - 15 x 4 - 25	15	25	60	WCMX030208	SCR-EXD2.5	T8
SPA2674	EXD - 16 x 4 - 25	16	25	64			
SPA2676	EXD - 17 x 4 - 25	17	25	68			
SPA2678	EXD - 18 x 4 - 25	18	25	72			
SPA2680	EXD - 19 x 4 - 25	19	25	76			
SPA2682	EXD - 20 x 4 - 25	20	25	80	WCMX040208	SCR-EXD2.5	T8
SPA2684	EXD - 21 x 4 - 32	21	32	84			
SPA2686	EXD - 22 x 4 - 32	22	32	88			
SPA2688	EXD - 23 x 4 - 32	23	32	92			
SPA2690	EXD - 24 x 4 - 32	24	32	96			
SPA2692	EXD - 25 x 4 - 32	25	32	100	WCMX050308	SCR-EXD3	T8
SPA2694	EXD - 26 x 4 - 32	26	32	104			
SPA2696	EXD - 27 x 4 - 32	27	32	108			
SPA2698	EXD - 28 x 4 - 32	28	32	112			
SPA2700	EXD - 29 x 4 - 32	29	32	116			
SPA2702	EXD - 30 x 4 - 32	30	32	120	WCMX06T308	SCR-EXD3.5	T15
SPA2704	EXD - 31 x 4 - 32	31	32	124			
SPA2706	EXD - 32 x 4 - 32	32	32	128			
SPA2708	EXD - 33 x 4 - 32	33	32	132			
SPA2710	EXD - 34 x 4 - 32	34	32	136			
SPA2712	EXD - 35 x 4 - 32	35	32	140	WCMX06T308	SCR-EXD3.5	T15
SPA2714	EXD - 36 x 4 - 32	36	32	144			
SPA2716	EXD - 37 x 4 - 32	37	32	148			
SPA2718	EXD - 38 x 4 - 32	38	32	152			
SPA2720	EXD - 39 x 4 - 32	39	32	156			
SPA2722	EXD - 40 x 4 - 40	40	40	160	WCMX080412	SCR-EXD4	T15
SPA2724	EXD - 41 x 4 - 40	41	40	164			
SPA2726	EXD - 42 x 4 - 40	42	40	168			
SPA2728	EXD - 43 x 4 - 40	43	40	172			
SPA2730	EXD - 44 x 4 - 40	44	40	176			
SPA2732	EXD - 45 x 4 - 40	45	40	180	WCMX06T308	SCR-EXD3.5	T15
SPA2734	EXD - 46 x 4 - 40	46	40	184			
SPA2736	EXD - 47 x 4 - 40	47	40	188			
SPA2738	EXD - 48 x 4 - 40	48	40	192			
SPA2740	EXD - 49 x 4 - 40	49	40	196			
SPA2742	EXD - 50 x 4 - 40	50	40	200	WCMX06T308	SCR-EXD3.5	T15
SPA2744	EXD - 51 x 4 - 40	51	40	204			
SPA2746	EXD - 52 x 4 - 40	52	40	208			
SPA2748	EXD - 53 x 4 - 40	53	40	212			
SPA2750	EXD - 54 x 4 - 40	54	40	216			
SPA2752	EXD - 55 x 4 - 40	55	40	220	WCMX06T308	SCR-EXD3.5	T15
SPA2754	EXD - 56 x 4 - 40	56	40	224			
SPA2756	EXD - 57 x 4 - 40	57	40	228			
SPA2758	EXD - 58 x 4 - 40	58	40	232			
SPA2760	EXD - 59 x 4 - 40	59	40	236			
SPA2762	EXD - 60 x 4 - 40	60	40	240			

※ISO Code
※符合ISO規範

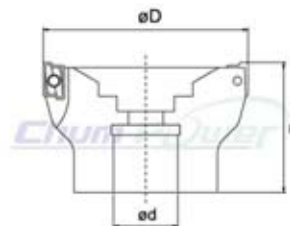
A064 WEX High-Speed Rough Endmill WEX型 高速端銑刀



Code No. 型號	Type 規格	ϕD	ϕd	L	L1	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2782	WEX12 - 1616 x 100	16	16	100	25	2	AXMT1235	SCR-WEX3	T8
SPA2784	WEX12 - 1816 x 100	18	16	100	25	2			
SPA2786	WEX12 - 2020 x 110	20	20	110	30	3			
SPA2788	WEX12 - 2020 x 150	20	20	150	40	3			
SPA2790	WEX12 - 2220 x 110	22	20	110	30	3			
SPA2792	WEX12 - 2525 x 120	25	25	120	35	4			
SPA2794	WEX12 - 2525 x 170	25	25	170	50	4			
SPA2796	WEX12 - 2825 x 120	28	25	120	35	4			
SPA2798	WEX12 - 3232 x 130	32	32	130	40	5			
SPA2800	WEX12 - 3232 x 180	32	32	180	60	5			
SPA2802	WEX17 - 2525 x 120	25	25	120	35	2	AXMT1705	SCR-WEX4	T15
SPA2804	WEX17 - 2625 x 120	26	25	120	35	2			
SPA2806	WEX17 - 2825 x 120	28	25	120	35	2			
SPA2808	WEX17 - 3232 x 130	32	32	130	40	3			
SPA2810	WEX17 - 3232 x 180	32	32	180	60	3			
SPA2812	WEX17 - 3532 x 130	35	32	130	40	3			
SPA2814	WEX17 - 4032 x 170	40	32	170	50	4			

※Nachi or Sumitomo Inserts recommended
※建議使用Nachi或Sumitomo銑刀片

A065 WEX High-Speed Rough Face Milling Cutter WEX型 高速平面銑刀



Code No. 型號	Type 規格	ϕD	ϕd	H	Teeth 刃數	Insert 刀片規格	Screw 螺絲	Wrench 扳手
SPA2832	WEX12 - 50 x 22	50	22	40	7	AXMT1235	SCR-WEX3	T8
SPA2834	WEX12 - 63 x 22	63	22	40	8			
SPA2836	WEX17 - 50 x 22	50	22	40	5	AXMT1705	SCR-WEX4	T15
SPA2838	WEX17 - 63 x 22	63	22	40	6			
SPA2840	WEX17 - 80 x 25.4	80	25.4	50	7			
SPA2842	WEX17 - 100 x 31.75	100	31.75	63	8			
SPA2844	WEX17 - 125 x 38.1	125	38.1	63	9			

※Nachi or Sumitomo Inserts recommended
※建議使用Nachi或Sumitomo銑刀片

Screw 螺絲



Code No. 型號	Type 規格
SDA0167	SCR-APX2.5
SDA0168	SCR-AR10
SDA0169	SCR-AR12.5
SDA0170	SCR-ARB
SDA0171	SCR-CAP2.5
SDA0172	SCR-CAP4
SDA0173	SCR-CBP3.5
SDA0174	SCR-CBP5
SDA0175	SCR-CEX3.5
SDA0176	SCR-CEX4
SDA0177	SCR-CJU2.5
SDA0178	SCR-CJU3.5
SDA0179	SCR-CJU4
SDA0180	SCR-CJU5
SDA0181	SCR-CLS/16
SDA0182	SCR-CR10
SDA0183	SCR-CR12.5
SDA0184	SCR-CR4
SDA0185	SCR-CR5
SDA0186	SCR-CR6
SDA0187	SCR-CR8
SDA0188	SCR-CRC4
SDA0189	SCR-CRC5
SDA0190	SCR-CRP3
SDA0191	SCR-CRP4
SDA0192	SCR-CRS3

Code No. 型號	Type 規格
SDA0193	SCR-CRS4
SDA0194	SCR-CRS5
SDA0195	SCR-CR14
SDA0196	SCR-CSJ2.5
SDA0197	SCR-CSJ3
SDA0198	SCR-CSJ4
SDA0199	SCR-EHU2.5
SDA0200	SCR-EHU4
SDA0201	SCR-ESR3.5
SDA0202	SCR-ESR4
SDA0203	SCR-ESR5
SDA0204	SCR-EXD2.5
SDA0205	SCR-EXD3
SDA0206	SCR-EXD3.5
SDA0207	SCR-EXD4
SDA0208	SCR-IMP3
SDA0209	SCR-IMP4
SDA0210	SCR-OD3.5
SDA0211	SCR-QP3
SDA0212	SCR-QP3.5
SDA0213	SCR-RD2.0
SDA0214	SCR-RD2.5
SDA0215	SCR-RD3.5
SDA0216	SCR-RGH2.5
SDA0217	SCR-RGH4
SDA0218	SCR-RGH5

Code No. 型號	Type 規格
SDA0219	SCR-RG24
SDA0220	SCR-RG25
SDA0221	SCR-RO3
SDA0222	SCR-RT2.0
SDA0223	SCR-RT2.5
SDA0224	SCR-SE4
SDA0225	SCR-SE5
SDA0226	SCR-SFM5
SDA0227	SCR-SN3.5
SDA0228	SCR-ST-S4
SDA0229	SCR-ST-T4
SDA0230	SCR-TB2.5
SDA0231	SCR-TB3.5
SDA0232	SCR-TCM4
SDA0233	SCR-TS2.5
SDA0234	SCR-TS4
SDA0235	SCR-TS5
SDA0236	SCR-W1/4
SDA0237	SCR-W1/4L
SDA0238	SCR-W3/16
SDA0239	SCR-W3/16S
SDA0240	SCR-W5/16
SDA0241	SCR-WEX3
SDA0242	SCR-WEX4
SDA0243	SCR-XEM2.5
SDA0244	SCR-XEM4

Wrench 扳手

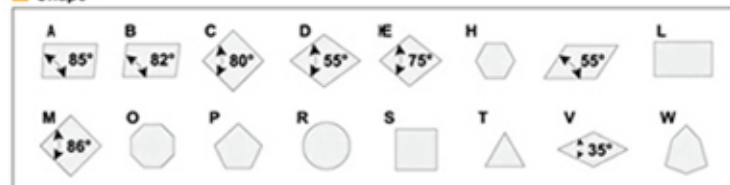


Code No. 型號	Type 規格
STD0001	T6
STD0003	T8
STD0004	T10
STD0005	T15
STD0006	T20
STD0007	T30
STD0008	WRN-M3L
STD0009	WRN-M4L
STD0010	WRN-M4T
STD0011	WRN-M5L
STD0012	WRE-M5L

Milling Cutter Inserts Metric Series ISO 1832-1991

SEAN1203AFTN-M16
1 2 3 4 5 6 7 8 9 10

1 Shape



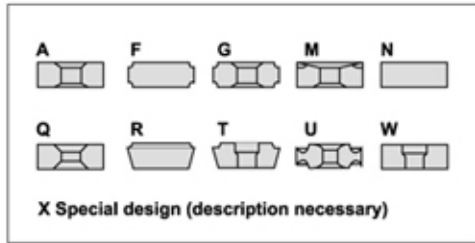
2 Clearance angle



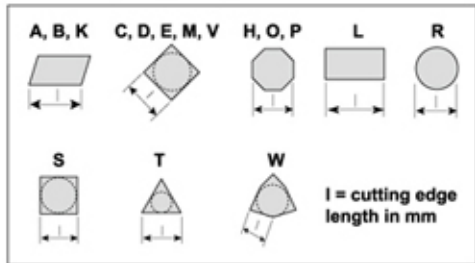
3 Tolerances

Tol class	Tolerance ± mm			Ford, dimension mm					
	m	s	d	6.53	9.525	12.70	15.875	19.05	25.40
A	0.005	0.025	0.025	•	•	•	•	•	•
E	0.025	0.025	0.025	•	•	•	•	•	•
F	0.005	0.025	0.013	•	•	•	•	•	•
G	0.025	0.130	0.025	•	•	•	•	•	•
H	0.013	0.025	0.013	•	•	•	•	•	•
J	0.005	0.025	0.050	•	•				
	0.005	0.025	0.080			•			
	0.005	0.025	0.100				•	•	
	0.005	0.025	0.130						•
K	0.013	0.025	0.050	•	•				
	0.013	0.025	0.080			•			
	0.013	0.025	0.100				•	•	
	0.013	0.025	0.130						•
M	0.080	0.130	0.050	•	•				
	0.130	0.130	0.080			•			
	0.150	0.130	0.100				•	•	
	0.180	0.130	0.130						•
U	0.130	0.130	0.080	•	•				
	0.200	0.130	0.130			•			
	0.270	0.130	0.180				•	•	
	0.380	0.130	0.250						•

4 Type of Insert



5 Cutting edge length



Comparison
Cutting edge length/I.C. (d)

IC (d)	Shape					
	C	D	R,S	T	V	W
5.56						03
6.35	06	07	06	11		04
12.70	09	11	09	16	16	06
15.88	16	19	15	22		08
19.05	19	23	19	33		
25.40	25	31	25	44		

IC = Theoretical diameter of inscribed circle

6 Thickness

S	mm	
	mm	mm
	01=1.59	05=5.56
	T1=1.98	06=6.35
	02=2.38	07=7.94
	03=3.18	08=8.00
	T3=3.97	09=9.52
	04=4.76	

7 Insert with Wiper Edge/Radius

1st digit

A = 45°
D = 60°
E = 75°
F = 85°
P = 90°
Z = Special

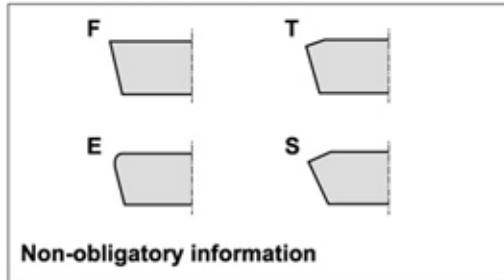
2nd digit

A = 3° F = 25°
D = 5° G = 30°
E = 7° N = 0°
F = 15° P = 11°
P = 20°
Z = Special

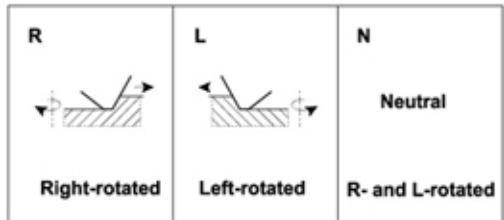
Radius mm

M0* = Round Inserts
00 = Sharp
01 = 0.1
02 = 0.2
04 = 0.4
08 = 0.8
12 = 1.2
etc. *Metric Sizes

8 Cutting Edge Condition

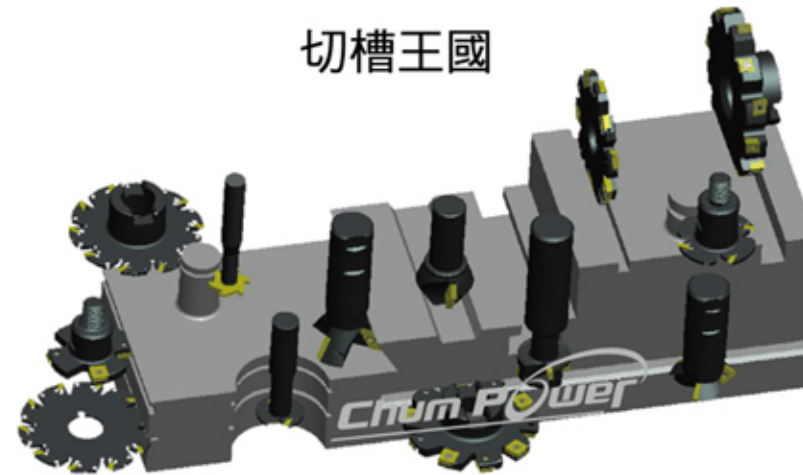


9 Direction of Cutting



Slotting & Grooving Empire

切槽王國



TS T-slot milling cutters
T型銑刀



SBL T-slot milling cutters
T型銑刀



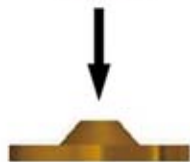
STL T-slot milling cutters
T型銑刀





Technical Data

技術資料



組合示意圖
Schematic Diagram



模擬圖
Analog Picture

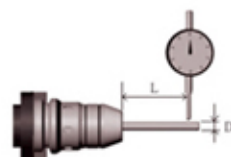


模擬圖
Analog Picture



EX-POWER Standard Inspection Table

EX-POWER® 標準檢驗表



CODE NO:			TEST VALUE			
	φD mm	L mm	Max RUN-OUT mm	φD mm	L mm	Max RUN-OUT mm
STANDARD	6	55	0.05	6	55	
	8					
	10					
	13					
	16	80	0.05	13	80	
	16					

FEATURES

EX-POWER® Universal Chucks guarantee maximum performance, reliability, and long lifetime of tool.

1. Run Out tested certified to 0.05mm T.I.R. or 0.02mm or even better.
2. Max torque can be up to 600 Kgf-cm.
3. The rotation speed can be up to 8000 R.P.M.
4. Optional Dynamic Balance Services could reach to 20,000 RPM, G6.3 balance degree.

EX-POWER® 泛用型夾頭保證可達刀具的最大性能、客戶使用之可信賴性、和長期使用壽命。

1. 精度經測試，可達0.05mm(T.I.R.)或0.02mm，甚至更高。
2. 最大扭力值可達600Kgf-cm
3. 轉速可達8000R.P.M.
4. 動平衡校正可達20,000RPM，G6.3。

Dynamic Balance Standard Formula List

動平衡標準公式列表

Balance Grade	G0.4	G1	G2.5	G6.3	G16	G40	G100	G250	G630	G1600	G4000	
Precision	exw(mm/s)	0.4	1	2.5	6.3	16	40	100	250	630	1600	4000
Required	exw(μm*rpm)	3820	9549	23875	60165	152800	382000	954900	2387500	6016500	15280000	38200000

SETTING OF THE BALANCE SERIES IS ACCORDING TO ISO 1940 STANDARD

THE FORMULA AS FOLLOWS:

$$U = M \times e$$

$$U = \frac{G \times M}{n} \times 9549$$

$$G = \frac{n \times U}{9549 \times M}$$

G = UNBALANCE SERIES

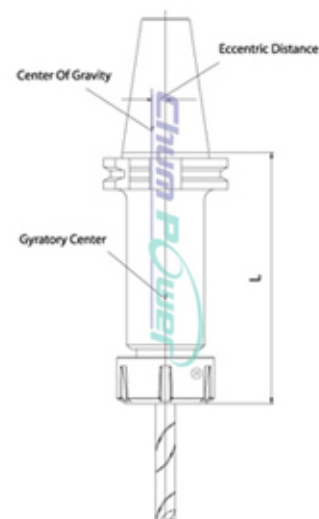
U = UNBALANCE(g-mm)

e = ECCENTRIC DISTANCE(mm)

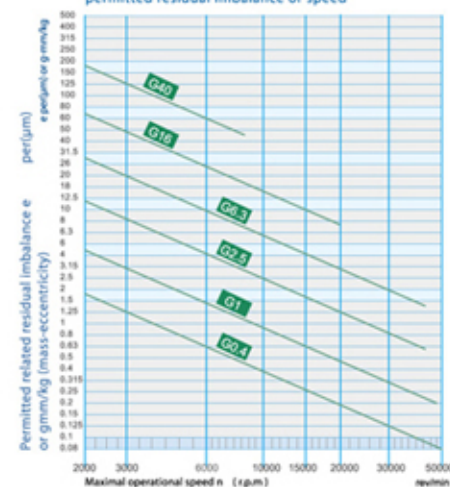
M = ROTER WEIGHT(kg)

n = rpm

9549 = CONSTANT



Quality levels according to ISO 1940 and permitted residual imbalance or speed

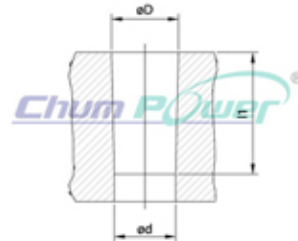


JACOBS TAPER

TYPE	D	d	l1
JT0	6.35	5.802	11.112
JT1	9.754	8.469	16.609
JT2S	13.94	12.386	19.05
JT2	14.199	12.386	22.225
JT33	15.85	14.237	25.4
JT6	17.17	15.852	25.4
JT3	20.599	18.951	30.956
JT4	28.55	26.346	42.069
JT5	35.89	33.422	47.625

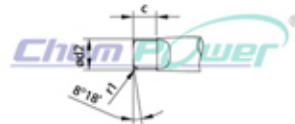
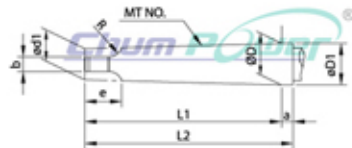
DIN238

TYPE	D	d	l1
B6	6.35	5.85	10
B10	10.094	9.4	14.5
B12	12.065	11.1	18.5
B16S	15.608	14.5	21.5
B16	15.733	14.5	24
B18S	17.431	16.2	25
B18	17.78	16.2	32
B22	21.793	19.8	40.5
B24	23.825	21.3	50.5



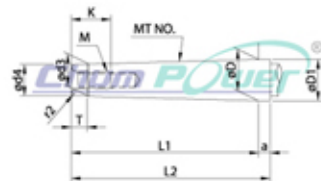
DIN228 "A TANG TYPE"

TYPE	∅D	a	∅D1	∅d1	∅d2	L1	L2	b	c	e	R	r1
MT0	9.045	3	9.2	6.1	6	5.6	59.5	3.9	6.5	10.5	4	1
MT1	12.065	3.5	12.2	9	8.7	62	65.5	5.2	8.5	13.5	5	1.2
MT2	17.78	5	18	14	13.5	75	80	6.3	10	16	6	1.6
MT3	23.825	5	24.1	19.1	18.5	94	99	7.9	13	20	7	2
MT4	31.267	6.5	31.6	25.2	24.5	117.5	124	11.9	16	24	8	2.5
MT5	44.399	6.5	44.7	36.5	35.7	149.5	156	15.9	19	29	10	3
MT6	63.348	8	63.8	52.4	51	210	218	19	27	40	13	4



DIN228 "B DRAW BAR TYPE"

TYPE	∅D	a	∅D1	∅d3	∅d4	L1	L2	T	r2	M	K	r
MT0	9.045	3	9.2	6.4	6	90	93	4	0.2	—	—	1
MT1	12.065	3.5	12.2	9.4	9	53.5	57	5	0.2	M6	16	1.2
MT2	17.78	5	18	14.6	14	64	69	5	0.2	M10	24	1.6
MT3	23.825	5	24.1	19.8	19	81	86	7	0.6	M12	28	2
MT4	31.267	6.5	31.6	25.9	25	102.5	109	9	1	M16	32	2.5
MT5	44.399	6.5	44.7	37.6	35.7	129.5	136	10	2.5	M20	40	3
MT6	63.348	8	63.8	53.9	51	182	190	16	4	M24	50	4



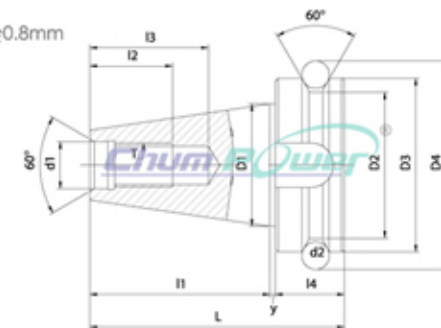
Technical Data

JIS B 6339

技術資料

- If it is suitable for center coolant standard, it can be ordered.
- The shank has pre-balance at G6.3, and can provide precision balance at G2.5, made by request.
- Shank body standard: JIS MAS 403.
- Taper tolerance < AT3.
- Basic Material: JIS-SCM415.
- Hardness > HRC 56° Carbon depth > 0.8mm.
- Roundness < 0.8μm.
- Surface roughness: Ra < 0.5μm.

- 如適合於中心止水標準，可選配。
- 柄徑出廠前動平衡值為G6.3，依客戶需求亦可提供G2.5之柄徑。
- 柄徑標準：JIS MAS 403
- 錐度公差小於AT3
- 基本材質：JIS-SCM415
- 硬度大於HRC 56 滲碳深度大於0.8mm
- 真圓度小於0.8μm
- 表面粗糙度：Ra小於0.5μm



MAS BT SHANK SPECIFICATION

Taper degree's precision is AT3.

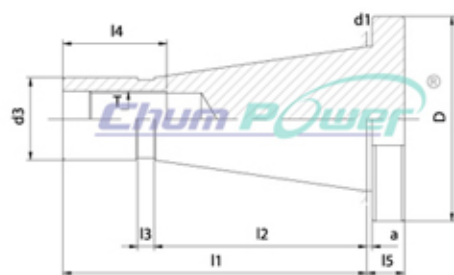
MOUNT TYPE	D3 _{h8}	D1	D4	D2	d1 _{H8}	d2	L	l1 _{±0.2}	l2 _{min.}	l3 _{min.}	l4	y _{±0.4}	T _{6H}
BT30	46	31.75	56.14	38	12.5	8	70.4	48.4	34	24	20	2	M12 x 1.75P
BT40	63	44.45	75.679	53	17	10	92.4	65.4	43	30	25	2	M16 x 2.0P
BT50	100	69.85	119.02	85	25	15	139.8	101.8	62	45	35	3	M24 x 3.0P

Technical Data

DIN 2080

技術資料

- Shank body standard: DIN 2080.
 - Taper tolerance < AT3.
 - Basic Material: JIS-SCM415.
 - Hardness > HRC 56° Carbon depth > 0.8mm.
 - Roundness < 0.8μm.
 - Surface roughness: Ra < 0.5μm.
- 柄徑標準：DIN-2080
 - 錐度公差小於AT3
 - 基本材質：JIS-SCM415
 - 硬度大於HRC 56° 滲碳深度大於0.8mm
 - 真圓度小於0.8μm
 - 表面粗糙度：Ra小於0.5μm



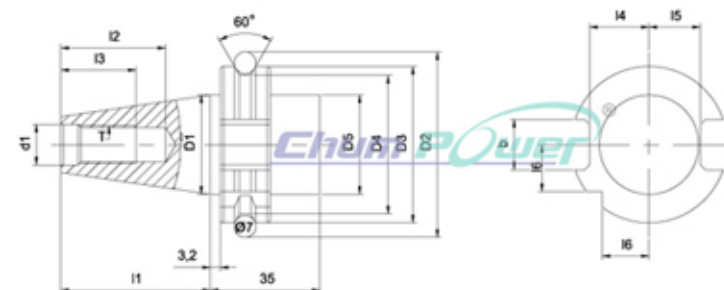
MOUNT TYPE	D ₀ ⁰ _{-0.4}	d1	d2 _{H12}	d3 _{max.}	a _{±0.5}	l1	l2	l3	l4 _{min.}	l5 _{-0.15}	T
NT30	50	31.75	16.1	17.11	1.6	68.4	48.4	3	24	8	1/2"-12W, M12x1.75P, 1/2"-13UNC
NT40	63	44.45	16.1	25.00	1.6	93.4	65.4	5	32	10	5/8"-11W, M16x2.0P
NT50	97.5	69.85	25.7	39.29	3.2	126.8	101.8	8	47	12	1"-8W, M24x3.0P

Technical Data

DIN 69871

技術資料

- If it is suitable for center coolant standard (DIN-69871-AD or B), it can be ordered.
 - The shank has pre-balance at G6.3, and can provide precision balance at G2.5, made by request.
 - Shank body standard: DIN 69871.
 - Taper tolerance < AT3.
 - Basic Material: JIS-SCM415.
 - Hardness > HRC 56° Carbon depth > 0.8mm.
 - Roundness < 0.8μm.
 - Surface roughness: Ra < 0.5μm.
- 如適合於中心止水標準 (DIN-69871-AD or B), 可選配。
 - 柄徑出廠前動平衡值為G6.3, 依客戶需求亦可提供G2.5之柄徑。
 - 柄徑標準：DIN-69871
 - 錐度公差小於AT3
 - 基本材質：JIS-SCM415
 - 硬度大於HRC 56° 滲碳深度大於0.8mm
 - 真圓度小於0.8μm
 - 表面粗糙度：Ra小於0.5μm



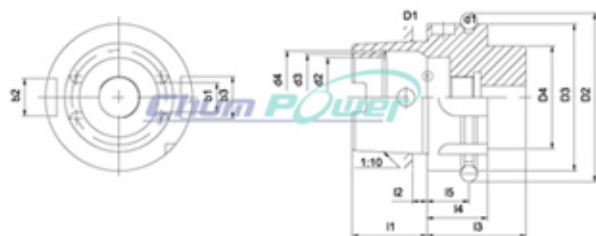
MOUNT TYPE	D3 ₀ ⁰ _{-0.1}	D1	D2 _{±0.05}	D4 ₀ ⁰ _{-0.5}	D5 _{max.}	d1 _{H7}	b _{H12}	l1 ₀ ⁰ _{-0.3}	l2 _{min.}	l3 _{min.}	l4 ₀ ⁰ _{-0.4}	l5 ₀ ⁰ _{-0.4}	l6 ₀ ⁰ _{-0.3}	T
SK30	50	31.75	59.30	44.30	45	13	16.1	47.8	33.5	24	19	16.4	15	M12 x 1.75P
SK40	63.55	44.45	72.30	56.25	50	17	16.1	68.4	42.5	32	25	22.8	18.5	M16 x 2.0P
SK50	97.50	69.85	107.25	91.25	80	25	25.7	101.75	61.5	47	37.7	35.5	30	M24 x 3.0P

Technical Data

DIN 69893 A+C

技術資料

- The shank is pre-balance at G6.3, and can provide precision balance at G2.5, made by request.
 - Shank body standard: DIN69893
 - Taper tolerance < AT3.
 - Basic Material: JIS-SCM415.
 - Hardness > HRC 56° Carbon depth > 0.8mm.
 - Roundness < 0.8μm.
 - Surface roughness: Ra < 0.5μm.
- 柄徑出廠前動平衡值為G6.3，依客戶需求亦可提供G2.5之柄徑。
 - 柄徑標準：DIN-69893
 - 錐度公差小於AT3
 - 基本材質：JIS-SCM415
 - 硬度大於HRC 56 滲碳深度大於0.8mm
 - 真圓度小於0.8μm
 - 表面粗糙度：Ra小於0.5μm



TYPE-A

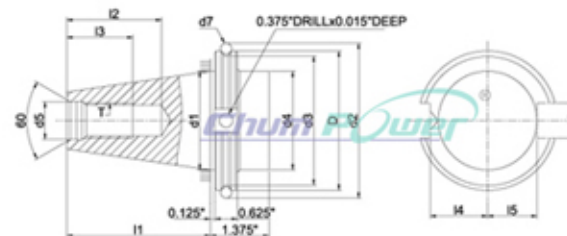
MOUNT TYPE	D3 H10	D1	d2 H10	d4 H11	d3	D4 max.	D2 0 -0.1	d1	I1 0 -0.2	I2	I3 min.	I4 0 -0.1	I5 ±0.1	b1 ±0.04	b2 H10	b3 H10
HSK32	32	24.007	17	21	19	26	37	4	16	3.2	35	20	16	7.05	7	9
HSK40	40	30.007	21	25.5	23	34	45	4	20	4	35	20	16	8.05	9	11
HSK50	50	38.009	26	32	29	42	59.3	7	25	5	42	26	18	10.54	12	14
HSK63	63	48.010	34	40	37	53	72.3	7	32	6.3	42	26	18	12.54	16	18
HSK100	100	75.013	53	63	58	85	109.75	7	50	10	45	29	20	20.02	20	22

Technical Data

ASME B5.50

技術資料

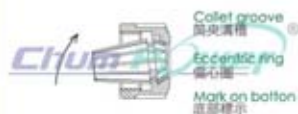
- If it is suitable for center coolant standard (DIN-69871-AD or B), it can be ordered.
 - The shank has pre-balance at G6.3, and can provide precision balance at G2.5, made by request.
 - Shank body standard: ANSI B5.50.
 - Taper tolerance < AT3.
 - Basic Material: JIS-SCM415.
 - Hardness > HRC 56° Carbon depth > 0.8mm.
 - Roundness < 0.8μm.
 - Surface roughness: Ra < 0.5μm.
- 如適合於中心止水標準 (DIN-69871-AD or B)，可選配。
 - 柄徑出廠前動平衡值為G6.3，依客戶需求亦可提供G2.5之柄徑。
 - 柄徑標準：ANSI B5.50
 - 錐度公差小於AT3
 - 基本材質：JIS-SCM415
 - 硬度大於HRC 56 滲碳深度大於0.8mm
 - 真圓度小於0.8μm
 - 表面粗糙度：Ra小於0.5μm



MOUNT TYPE	D ±0.002	d1	D2 ±0.002	d3 ±0.01	d4 max.	d5 ±0.015 0	d6 ±0.001	d7	I1 ±0.005	I2 min.	I3 ±0.01	I4 0 -0.015	I5 0 -0.01	T UNC 28
CAT30	1.812	1.250	2.176	1.531	1.250	0.516	0.645	0.2813	1.875	1.00	0.188	0.735	0.640	0.500-13
CAT40	2.500	1.750	2.863	2.219	1.750	0.641	0.645	0.2813	2.687	1.12	0.188	0.985	0.890	0.625-11
CAT45	3.250	2.250	3.613	2.969	2.250	0.766	0.770	0.2813	3.250	1.50	0.188	1.235	1.140	0.750-10
CAT50	3.875	2.750	4.238	3.594	2.750	1.031	1.020	0.2813	4.000	1.75	0.250	1.485	1.390	1.000-8

MOUNTING INSTRUCTION FOR ER-COLLETS PER DIN STD 6499-B

技術資料



Assembling Collet:

Insert groove of the collet into eccentric ring of the clamping nut the mark on the bottom of the nut. Push collet in the direction of the arrow until it clicks in Insert tool. Screw nut with collet onto tool holder.

組裝筒夾

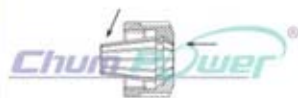
將筒夾外緣的溝槽，依螺母底部的標示放入螺母內。依箭頭指示將筒夾推入螺母，直至發出喀搭一聲後，將筒夾及螺母鎖至刀桿上。

Removing Collet:

After the nut is unscrewed from the toolholder, press on the face of the collet while simultaneously pushing sideways on the back of the collet until it disengages from the clamping nut.

移除筒夾

將螺母從刀桿上鬆開取下後，依箭頭指示輕推筒夾正面，同時從筒夾背部的側面輕推直至筒夾與螺母分離。



Improper assembly can permanently destroy the concentricity of the collet and may result in a damaged clamping nut.

不適當的組裝方式，長期可能導致筒夾同心度偏離並造成螺母損毀。

NOTE:

**Only mount nuts with correctly inserted collets!
Never place the collet into the holder without first assembling it into the nut.**

Never clamp oversize tool shafts!

e.g. never use a $\varnothing 12$ -11mm collet to clamp a $\varnothing 12.2$ mm shaft. Rather use the next bigger collet (here $\varnothing 12.5$ -11.5mm or $\varnothing 13$ -12mm collet).

Insert tool the full length of the collet for best results if possible. However never insert tool less than 2/3 of the collet bore length.

Improper tool insertion can permanently deform the collet and will result in poor runout.

注意：

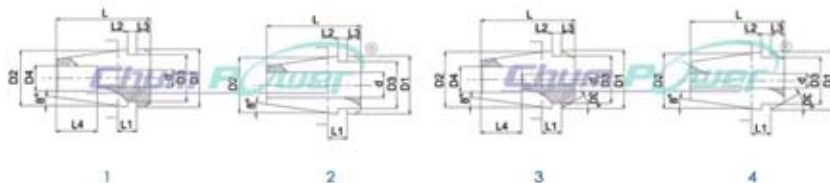
組裝時務必使用正確的筒夾。筒夾需先與螺母組合後再放入刀桿。

請勿使用尺寸過大之刀具。(請勿將12.2mm的刀具裝在12-11mm筒夾，應該使用更大尺寸的筒夾如12.5-11.5mm或13-12mm的筒夾)

盡可能的將刀具依筒夾口徑之長度置入筒夾內。刀具置入筒夾內不可少於筒夾口徑長度之2/3。不適當之組裝方式長期可能導致筒夾變形或並且影響精度。

MOUNTING INSTRUCTION FOR ER-COLLETS PER DIN STD 6499-B

技術資料



Size	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	Drawing
ER 8	0.5...2.5	8.5	8.0	6.5	4.0	13.5	2.98	1.2	1.5	6.0	1
ER 8	3.0...5.0	8.5	8.0	6.5	-	13.5	2.98	1.2	1.5	-	2
ER 11	0.5...2.5	11.5	11.0	9.5	5.0	18.0	3.80	2.0	2.5	9.0	3
ER 11	3.0...7.0	11.5	11.0	9.5	-	18.0	3.80	2.0	2.5	-	4
ER 16	0.5...4.5	17.0	16.0	13.8	7.5	27.5	6.26	2.7	4.0	10.0	3
ER 16	5.0...10.0	17.0	16.0	13.8	-	27.5	6.26	2.7	4.0	-	4
ER 20	0.5...6.5	21.0	20.0	17.4	9.0	31.5	6.36	2.8	4.8	13.0	3
ER 20	7.0...13	21.0	20.0	17.4	-	31.5	6.36	2.8	4.8	-	4
ER 25	0.5...7.5	26.0	25.0	22.0	12.0	34.0	6.66	3.1	5.0	15.0	3
ER 25	8.0...16.0	26.0	25.0	22.0	-	34.0	6.66	3.1	5.0	-	4
ER 32	2.0...3.5	33.0	32.0	29.2	15.0	40.0	7.16	3.6	5.5	20.0	3
ER 32	4.0...7.5	33.0	32.0	29.2	15.0	40.0	7.16	3.6	5.5	15.0	3
ER 32	8.0...20.0	33.0	32.0	29.2	-	40.0	7.16	3.6	5.5	-	4
ER 40	2.0...3.5	41.0	40.0	36.2	20.0	46.0	7.66	4.1	7.0	21.8	3
ER 40	4.0...8.5	41.0	40.0	36.2	20.0	46.0	7.66	4.1	7.0	18.0	3
ER 40	9.0...30.0	41.0	40.0	36.2	-	46.0	7.66	4.1	7.0	-	4
ER 50	4.0...10.0	52.0	50.0	46.0	20.0	60.0	12.60	5.5	8.5	32.0	3
ER 50	12.0...34.0	52.0	50.0	46.0	-	60.0	12.60	5.5	8.5	-	4

All ER collet per DIN STD 6499-B have a clamping rangel

Keyless Drill Chuck Manual

自動鑽夾頭操作須知

CP690622

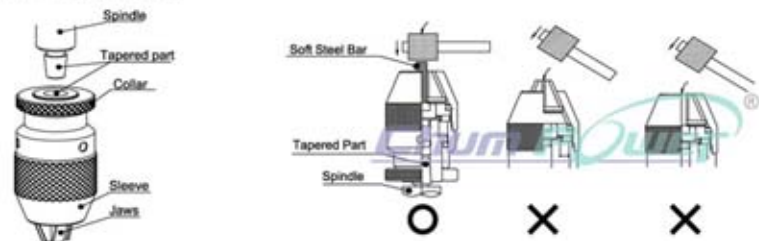
Thank you very much for purchasing our products. Please do not fail to read this manual before use. After reading, please keep this manual in such a place where it will be easily available for any persons at any time.

CAUTION

- ▲ Mount the chuck firmly according to "How to mount" in this manual. Otherwise, the chuck might be loosened, which may eventually result in serious bodily injuries or accidents.
 - ▲ Check and confirm that the tool is clamped firmly by the three jaws before starting operation. Improper clamping of the tool will cause its abnormal runout, breakage and/or detaching, which may result in serious bodily injuries or accidents.
 - ▲ Tighten the chuck strongly by hands.
- In case of chucking a tool of smaller diameter with a chuck of larger capacity, the automatic tightening mechanism may fail to function properly, which may cause slipping of the tool and eventually its falling down.
- ▲ The chuck cannot be used in CCW rotation. If the chuck is rotated in CCW direction, the tool will be loosened and spin off from the chuck which may cause serious bodily injuries or accidents.
 - ▲ The chuck cannot be used to the machine having an emergency stop mechanism. If the machine spindle stops rotating by such emergency stopping, the tool will be loosened and spin off from the chuck, which may cause serious bodily injuries or accidents. (Use our CNC Keyless Chuck or Dream Chuck for the machines having such emergency stop mechanism.)
 - ▲ Do not touch the chuck or the tool while being rotated. Otherwise, there will be dangers to be caught by the rotating parts of the machine, which can result in serious bodily injuries or accidents.
 - ▲ Do not manipulate the chuck before complete stop of the spindle. Otherwise, there will be dangers to be caught by the rotating parts of the machine, which can result in serious bodily injuries or accidents.
 - ▲ Do not use the chuck if some abnormal conditions, like cracks, breakage or transformation are detected thereon. Use of such defective chuck may cause serious bodily injuries or accidents.
 - ▲ Do not make any repairing, re-assembling nor remodeling on the chuck. Use of such re-worked chuck may cause serious bodily injuries or accidents.

How to mount

- ▼ The tapered part of the chuck must well be cleaned off of oily material, dust and foreign material.
- ▼ The three jaws must be retracted below the level of the chuck nose.
- ▼ The tapered part of the spindle or the arbor must also well be cleaned.
- ▼ Insert the tapered part of the spindle or the arbor into the tapered part of the chuck, taking care not to make any flaws or damages on any of the tapered parts. And drive the chuck by hammering the edge of the soft steel bar with a wooden hammer, taking care not to let the chuck slip off or fall down from the spindle or the arbor.
- ▼ Do not hammer the jaws nor sleeve.



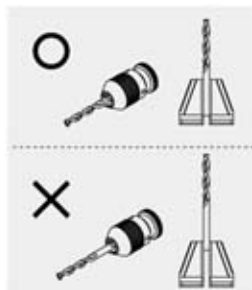
ATTENTION:

"Easy to operate, Convenience and the Higher Safety" are the great advantage of this kind of Drill Chuck. When operating this product, you have to read the MANUAL carefully to keep from causing the accident and promote longevity. Please follow the point as below:

When you operate, the length of holding capacity (L1) shall insert the drill bit to the bottom or at least insert to 2/3 of the length of three Jaws (L2).

Every kinds of specification (Drill Chuck) for the length of three jaws (L) & the holding capacity (L1) as follows. Please refer to it.

Size of Drill Chuck	Length of Three Jaw (L)	Holding Capacity (L1)
5/8" (16mm)	30	20
1/2" (13mm)	28	19
3/8" (10mm)	26	17
1/4" (6.5mm)	20	13
1/8" (3mm)	14	9
5/16" (8mm)	26	17



Keyless Drill Chuck Manual

自動鑽夾頭操作須知

CP690622

感謝 您購買本公司之夾頭產品。使用此產品前，請閱讀此操作手冊。閱讀後，請將此操作手冊放置於任何人隨時隨地皆可取得之處。

注意事項

- ▲ 依據此手冊中"裝夾"之步驟，即可正確地完成裝夾此夾頭，否則，此夾頭將會鬆動，最後可能造成使用者嚴重地受傷及意外。
- ▲ 開始操作前，檢查並確認三爪是否緊緊的夾住您所使用的工具，該種的夾持將會產生夾頭精度有差異、破裂或解體，這樣可能造成使用者嚴重地受傷及意外。
- ▲ 用手用力地鎖緊夾頭，如果使用一個夾持量較大的夾頭來夾持一個較小尺寸的工具，則此夾頭具備之自動鎖緊的裝置可能無法夾持，可能導致工具掉落最後失敗。
- ▲ 此夾頭加工時，只可正轉，不可逆轉，若逆轉操作將失去功能，夾持之工具將會鬆動，且從夾頭脫落，則可能導致使用者嚴重地受傷及意外。
- ▲ 此夾頭不能應用於有緊急停止裝置的機器，如果機器主軸因緊急情況而停止轉動，則工具將會鬆動且從夾頭脫落，可能導致使用者嚴重地受傷及意外。
- ▲ 勿將真正在轉動中之夾頭或工具，否則您將會受傷，會被正在運轉中的機器所捲住，一定會造成您嚴重地受傷及意外。
- ▲ 主軸轉動完全停止前，勿操作夾頭，否則您將會受傷，會被正在運轉中的機器所捲住，造成您嚴重地受傷及意外。
- ▲ 出現異常異常狀況下，如：立即感覺外殼破裂、夾頭損壞或變形，則勿再使用此夾頭，若再使用此種有缺陷夾頭，會造成您嚴重地受傷及意外。
- ▲ 切勿作任何再修復、重組甚至重新製造此夾頭之動作，若使用這種重製的夾頭，會造成您嚴重地受傷及意外。

"裝置固定"步驟

- ▼ 夾頭尾部 (Tapered part) 應用酒精清潔乾淨，避免反應及外來的雜質。
- ▼ 三爪必須縮回至夾頭鼻端之水平線之下。
- ▼ 主軸端 (Tapered part) 或夾頭柄 (Arbor) 也一定要清潔乾淨。
- ▼ 將主軸或夾頭柄端部插入夾頭之頂部，插入時，注意不要讓到螺紋部造成任何裂損，接著，用木槌槌擊軟鋼棒而將夾頭壓入，注意勿使夾頭從主軸或夾頭柄滑落。
- ▼ 勿直接槌打三爪或前套。

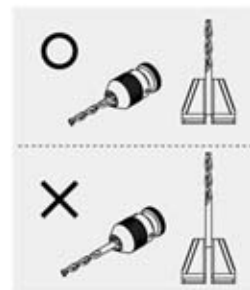


注意事項：

本產品之最大優點是裝前自鎖操作，快速方便，安全性極高，實使用本產品時，為了減少意外事故發生，延長產品壽命，必需詳細閱讀操作說明書，並遵守以下列舉的基本事項，夾持長度 (L1) 應將螺絲柄插入到底或至少爪長 (L) 的 2/3。

以下為各種規格夾爪長度及夾持量。

規格	夾爪長度 (L) (mm)	夾持量 (L1) (mm) 至少
5/8"	30	20
1/2"	28	19
3/8"	26	17
1/4"	20	13
1/8"	14	9
5/16"	26	17



Ex-Power Chuck Manual

Ex-Power 刀把裝配須知

CP690622

- Mount EX-POWER Chuck firmly according to "HOW TO MOUNT" in this manual. Otherwise, the EX-POWER Chuck might be loosened, which may eventually result in serious bodily injuries or accidents for user.
- Check and confirm the drill bit is clamped firmly by the chuck before starting operation. Improper clamping of the drill bits will cause its abnormal runout, breakage or detaching of the chuck, which may result in serious injuries or accidents for user.
- Please use the proper EX-POWER Chuck to clamp the drill bits to avoid its abnormal runout and bits dropping off, which may result in serious injuries or accidents for user.
- DO NOT change the tool on the spindle to avoid causing serious accidents and injuries for user due to turning idly in the spindle itself. When idling, please turn power off or press Emergency Stop Button.
- DO NOT touch the tool or EX-POWER Chuck when rotating. Otherwise, user might be hauled by the rotating machine, which may result in serious injuries or accidents.
- DO NOT manipulate EX-POWER Chuck before the spindle stops totally. Otherwise, user might be hauled by the rotating machine, which may result in serious injuries or accidents.
- DO NOT use EX-POWER Chuck anymore if some abnormal conditions, like cracks, breakage or transformation are detected thereon. Otherwise, it may result in serious injuries or accidents for user.
- DO NOT make any repairing, re-assembling nor remodeling on EX-POWER Chuck. Otherwise, it'll cause the weak function or abnormal runout of the chuck.
- Please operate EX-POWER Chuck under normal and clean usage.
- Please wipe iron filings away before and after operating EX-POWER Chuck. Also, it's necessary to do anti-corrosion treatment to ensure the longevity of this chuck.

HOW TO MOUNT:

- Accordingly, put EX-POWER Chuck into the locking device.
- To rotate the ring to adjust the open and close of three jaws.
- Please put the drill bit into EX-Power Chuck.
- Please use the attached hook wrench to rotate the ring to let the drill bit be clamped firmly by the jaws.
- For safety, please insert the drill bit into the bottom of jaws or the depth of 2/3..
- Please operate EX-Power Chuck on the spindle after tightening the bit. If not, the bit drops off and may result in serious injuries or accidents. (The operation of changing the bit directly on Universal machine shall not be limited on this instruction. Please follow above steps 1-5.)

Integral universal chucks



Ex-Power Chuck Manual

Ex-Power 刀把裝配須知

CP690622

- 依據此手冊中教導“裝置及固定”之步驟，正確完成裝置此EX-POWER鑽夾頭。否則此刀把鬆脫可能造成使用者嚴重的意外傷害。
- 開始操作前，請檢查並確認EX-POWER鑽夾頭是否確實地夾持住您所使用的鑽尾。錯誤的夾持可能產生精度差異、刀把破損或解體，進而造成使用者嚴重的意外傷害。
- 請使用適當的EX-POWER鑽夾頭夾持您所使用的鑽尾，以避免精度偏差及因刀具脫落而造成使用者嚴重的意外傷害。
- 請勿在主軸上更換EX-POWER鑽夾頭上之刀具，以免因夾持力不足而造成使用者嚴重的意外傷害。(若為在泛用機器上的直接換刀操作，請避免主軸空轉。主軸錯誤回轉時，請切斷電源，或按下緊急停止鈕，停止運轉。)
- 請勿觸碰正在轉動中的EX-POWER鑽夾頭或刀具，否則可能會被正在運轉中的機器拖住，造成嚴重的意外傷害。
- 主軸還未完全停止前，請勿操作EX-POWER鑽夾頭；否則可能會被正在運轉中的機器拖住，造成嚴重的意外傷害。
- EX-POWER鑽夾頭及刀具出現外觀破裂、外型損壞或變形等等異常狀況時，請勿再繼續使用，否則可能造成嚴重的意外傷害。
- 切勿作任何修復、重組甚至重新改造此產品之動作。否則將造成產品機能衰減、精度不良，及引起嚴重的意外傷害。
- 請在刀把無污損的狀態下使用。
- 請於使用前、後拭淨沾粘的鐵屑，並作適當的防鏽處理，以確保EX-POWER鑽夾頭的壽命。

裝置固定步驟：

- 將EX-POWER鑽夾頭置入鎖刀座內。(若為在泛用機器上直接換刀使用的情況下，請注意勿使主軸空轉或錯誤運轉。)
- 旋轉驅動環，調整三爪閉合。
- 將所需使用之刀具置入EX-POWER鑽夾頭中。
- 使用附屬勾扳手旋轉驅動環，使爪子夾持住刀具。
- 為操作安全，請務必將刀具插入夾爪底端或2/3以上的深度。
- 為防止刀具脫落而造成意外傷害，請確實鎖緊刀具後再裝上主軸使用。(泛用機器上的直接換刀操作不在此限，請參照步驟1-5。)

Integral universal chucks



Tap Chuck Torque Adjustment Manual

絲攻扭力調整須知

CP690622

HOW TO MOUNT:

Step 1: Fix the Tap collet holder on locking device. Then put the tap chuck in position to make sure it can't turn around. (FIG.1)

利用鎖刀座固定絲攻連接桿，再將絲攻夾頭置入，使其無法轉動，如圖 ① 所示。

Step 2: Please take C-buckle ring off when you test it. (FIG.2)

測試時，先將C型扣環取下，如圖 ② 所示。

Step 3: Put torque testing bar into the tap chuck. The top/square shape of testing bar shall be completely locked in the tap chuck. (FIG.3)

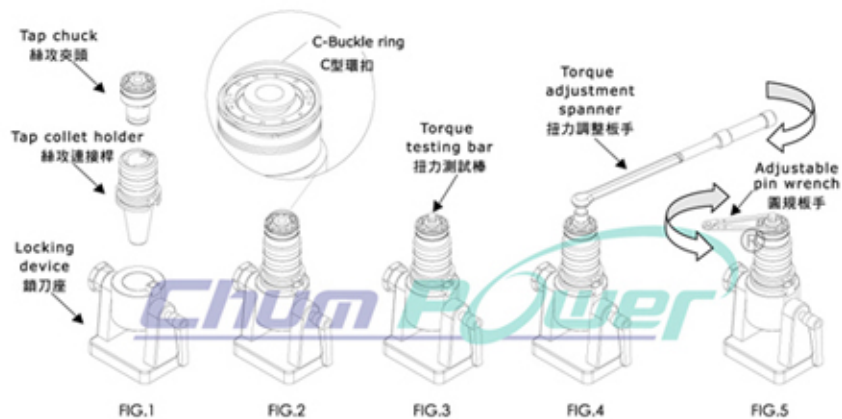
將扭力測試棒置入絲攻夾頭內，使測棒前端之方型部份完全卡入，如圖 ③ 所示。

Step 4: Then using torque testing bar and torque adjustment spanner pulling in clockwise direction to test the torque. (FIG.4)

再配合扭力測試棒與扭力調整扳手，則順時針方向拉動扳手並測試扭力，如圖 ④ 所示。

Step 5: If the torque value is under standard, you can use adjustable pin wrench to adjust the nut. Turn adjustable pin wrench clockwise to rotate the nut downward and compress the spring. Hence, the torque value can be increased. Oppositely, if the torque value is over standard, you can operate in counter-clockwise to loose the spring. (FIG.5)

若扭力值不足標準值，則利用圓規板手調整螺母，以順時針方向轉動可使螺母向下旋入，擠壓彈片，即可增加扭力值，如圖 ⑤ 所示。
若扭力值超出標準範圍，則以逆時針轉動螺母，使彈片放鬆。



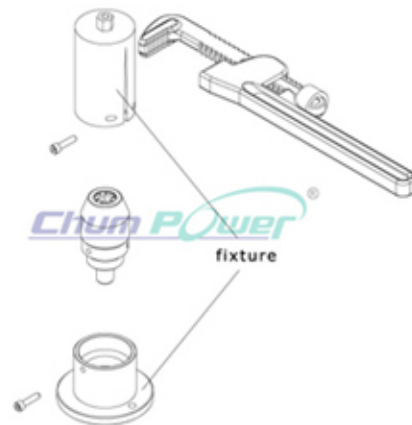
Keyless Drill Chuck Manual

Keyless Drill Chuck 修護裝配

CP690622

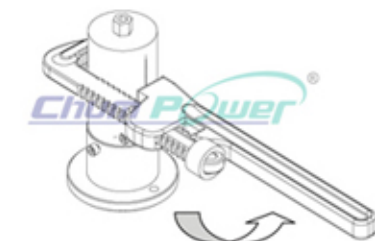
Step 1: Drill chuck to insert the fixture then lock screws.

將夾頭置入治具內，利用螺絲鎖緊。



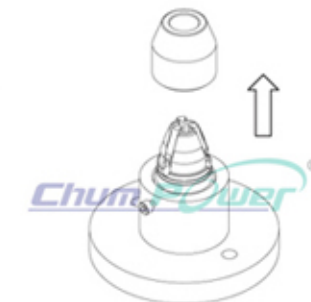
Step 2: Use plier to clamp the fixture in order to loose sleeve.

利用治具夾緊前套並利用T型板手旋轉，使前套放鬆。



Step 3: After loosening, rotate sleeve out then replace Jaws.

放鬆前套後，即可替換爪子。

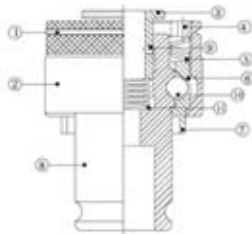


Tap Chuck Section Instruction

絲攻夾頭半剖圖說明書

CP690422

- | | |
|-------------------------|--------|
| 1.Retaining Ring C Type | 1.C型扣環 |
| 2.Cover | 2.外殼 |
| 3.Bushing | 3.襯套 |
| 4.Adjusting nut | 4.調整螺帽 |
| 5.Leaf spring | 5.彈片 |
| 6.Washer | 6.墊圈 |
| 7.Block | 7.固定塊 |
| 8.Body | 8.本體 |
| 9.Ball bearing (Small) | 9.小鋼珠 |
| 10.Ball bearing (Big) | 10.大鋼珠 |
| 11.Spring | 11.彈簧 |



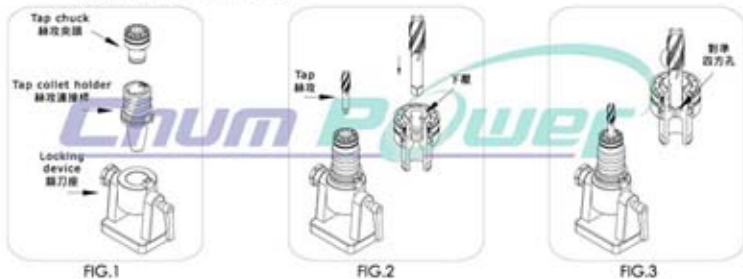
CAUTION:

- Mount the tap chuck correctly according to "HOW TO MOUNT" in this manual. Otherwise, the tap chuck drops off, which results in serious accidents and injuries for user.
- Confirm the tap collet holder is connected firmly with spindle before starting operation. Otherwise, it will lead to breakage of tap collet holder or spindle.
- Do not touch the tap collet holder and tap when rotating. Otherwise, user may be hauled by the rotating machine, which results in serious accidents and injuries for user.
- Please use the tap chuck with tap in the same dimension correctly. Otherwise, it will lead to breakage of tap chuck.
- The tap collet holder shall connect the spindle. Please match the correct tap collet holder. That is, to mount the tap chuck by different ways. Ex. BT toolholder can be put in the locking device for use.
- Pay more attention on cleanness before/after operation. To avoid its abnormal run-out and to shorten its life-span, please use cloth and nozzle for cleaning.

- 依據此手冊中教導「如何裝置及固定」之步驟，即可正確地完成裝置此夾頭；否則，此夾頭將鬆動，最後可能造成使用者嚴重地受傷及意外。
- 開始操作前，檢查並確認連接桿是否確實的與機器之主軸緊密連結，否則將造成絲攻連接桿或主軸結構損壞。
- 勿觸碰正在轉動中連接桿或刀具，否則會被正在運轉中的機器捲入，造成您嚴重地受傷及意外。
- 請正確選用絲攻夾頭搭配同規格絲攻，否則會損壞絲攻夾頭。
- 絲攻連接桿有連接各式主軸，請搭配使用不同刀把端，即使用不同方式置入絲攻夾頭，如：BT端即可放置於鎖刀座內使用。
- 連接桿使用前、後，都須注意清潔度，先使用布擦拭、再用噴嘴噴淨，避免影響精度及壽命。

HOW TO MOUNT:

- Step 1:** Put the cover of tap collet holder afterwards and then put the tap chuck in. FIG.1 is for your reference.
將絲攻連接桿外殼往後推，然後置入絲攻夾頭。
- Step 2:** Put the tap into the groove of tap collet holder and the tap is jammed by the tap collet holder. FIG.2 is for your reference.
絲攻夾頭兩傳動塊對準連接桿凹槽部份，使其卡入連接桿。
- Step 3:** Press the bushing of tap chuck down and put the tap in, which makes the shank is jammed firmly by the square. FIG 3 as your reference.
下壓絲攻夾頭之襯套，置入絲攻，使絲攻四方柄部分卡入絲攻四方孔內固定。
- Step 4:** Make sure the tap is clamped firmly before starting operation.
確實夾緊絲攻後，才可裝置使用。



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Tap Chuck Manual

Tap Chuck 裝配須知

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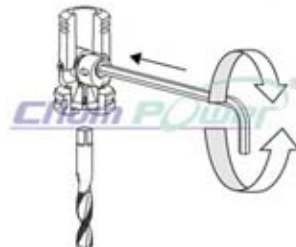
- Hexagon Wrench
- Tap
- Clamping Adjustment Bar
- Clamping Parts
- Jaws
- Jaws Adjustment Nut

- 六角扳手
- 絲攻
- 調整螺桿
- 夾具
- 爪子
- 調整螺帽



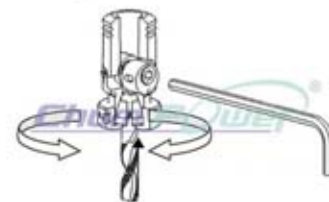
Step 1: Use No.1 Hexagon Wrench to insert No.3 Clamping Adjustment Bar to loose the No.4 Clamping Parts.

使用 No.1 六角扳手插入 No.3 調整螺桿，鬆開 No.4 夾具



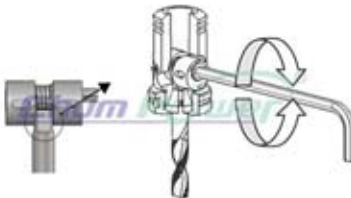
Step 2: To loose the No.6 Jaws Adjustment Nut and to insert the No.2 Tap, then tighten the No.6 Jaws Adjustment Nut. Accordingly, it will clamp the No.5 Jaws and No.2 Tap.

鬆開 No.6 調整螺帽及插入 No.2 絲攻；接著，鎖緊 No.6 調整螺帽。於是，將會夾住 No.5 爪子以及 No.2 絲攻。



Step 3: Use No.1 Hexagon Wrench to insert No.3 Clamping Adjustment Bar, and tighten the No.4 Clamping Parts and No.2 Tap.

使用 No.1 六角扳手插入 No.3 調整螺桿，並鎖緊 No.4 夾具及 No.2 絲攻。



Step 4: Loosen No.1 Hexagon Wrench, so it may start to use.
鬆開 No.1 六角扳手後，開始使用。

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ER Collet Chuck Manual

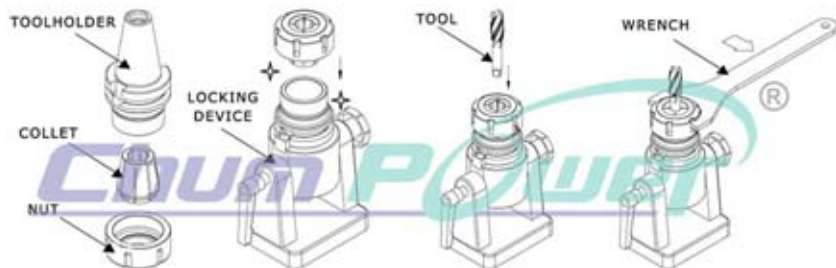
ER刀把裝配須知

CF690622

- Mount ER Collet tool holder firmly according to "HOW TO MOUNT" in this manual. Otherwise, the tool holder might be loosened, which may eventually result in serious bodily injuries or accidents for user.
- Check and confirm the tool is clamped firmly by the toolholder before starting operation. Improper clamping of the tool will cause its abnormal runout, breakage or detaching of toolholder, which may result in serious injuries or accidents for user.
- Please use the proper tool holder to clamp the tool to avoid its abnormal runout and tool dropping off, which may result in serious injuries or accidents for user.
- DO NOT change the tool on the spindle to avoid causing serious accidents and injuries for user due to turning idly in the spindle itself. When idling, please turn power off or press Emergency Stop Button.
- DO NOT touch the tool or tool holder when rotating. Otherwise, user might be hauled by the rotating machine, which may result in serious injuries or accidents.
- DO NOT manipulate the tool holder before the spindle stops totally. Otherwise, user might be hauled by the rotating machine, which may result in serious injuries or accidents.
- DO NOT use tool holder anymore if some abnormal conditions, like cracks, breakage or transformation are detected thereon. Otherwise, it may result in serious injuries or accidents for user.
- DO NOT make any repairing, re-assembling nor remodeling on the tool holder. Otherwise, it'll cause the weak function or abnormal runout of the tool holder.
- Please operate tool holder under normal and clean usage.
- Please wipe iron filings away before and after operating tool holder. Also, it's necessary to do anti-corrosion treatment to ensure the longevity of tool holder.

HOW TO MOUNT:

1. Please choose the collet with proper shank of tool holder and make sure if you have wiped the iron filings and dusts away before using it.
2. Please put ER collet into ER nut.
3. Be sure that the groove of collet and the inner of nut match well. [Please refer to the right drawing]
4. Accordingly, put the tool holder into the locking device and fix its direction to avoid shaking fore and after.
5. To lock ER collet and ER nut into the tool holder.
6. To insert the tool into ER collet. For safety, please insert it into the bottom of ER collet or the depth of 2/3.
7. Please use the attached ER wrench to tighten ER nut, thus the tool can be clamped by the tool holder.
8. Please operate the tool holder on the spindle after tightening the tool. If not, the tool drops off and may result in serious injuries or accidents. [The operation of changing the tool directly on Universal machine shall not be limited on this instruction. Please follow above steps 1-7.]



ER Collet Chuck Manual

ER刀把裝配須知

CF690622

- 依據此手冊中教導"裝置及固定"之步驟，正確完成裝置此刀把。否則此刀把鬆脫可能造成使用者嚴重的意外傷害。
- 開始操作前，檢查並確認刀把是否確實地夾持住您所使用的刀具。錯誤的夾持可能產生精度差異、刀把破損或解體，進而造成使用者嚴重的意外傷害。
- 請使用適當的工具夾持刀具，以及使用適當的刀具，以避免精度偏差及因刀具脫落而造成使用者嚴重的意外傷害。
- 請勿在主軸上更換刀把上之刀具，以免因夾持力不足而造成使用者嚴重的意外傷害。(若為在泛用機器上的直接換刀操作，請避免主軸空轉。主軸錯誤回轉時，請切斷電源，或按下緊急停止鈕，停止運轉。)
- 請勿觸碰正在轉動中的刀把或刀具，否則可能會被正在運轉中的機器拖住，造成嚴重的意外傷害。
- 主軸還未完全停止前，請勿操作刀把；否則可能會被正在運轉中的機器拖住，造成嚴重的意外傷害。
- 刀把、筒夾及刀具出現外觀破裂、外型損壞或變形等等異常狀況時，請勿再繼續使用，否則可能造成嚴重的意外傷害。
- 切勿作任何修復、重組甚至重新改造此刀把之動作。否則將造成產品機能衰減、精度不良，及引起嚴重的意外傷害。
- 請在刀把無污損的狀態下使用。
- 請於使用前、後拭淨沾粘的鐵屑，並作適當的防鏽處理，以確保刀把壽命。

裝置固定步驟：

1. 請選取與刀柄徑適合的筒夾。使用前請確認是否已清除沾附的鐵屑或灰塵。
2. 將ER筒夾及ER螺帽配合組裝。
3. 確認筒夾溝槽及螺帽內部卡簧的裝配是否完全吻合(請參照右圖)。若在未完全吻合的情況下使用可能造成刀把及筒夾損傷。
4. 將刀把置入鎖刀座內，固定好方向避免前後搖晃。(若為在泛用機器上直接換刀使用的情況下，請注意勿使主軸空轉或錯誤運轉。)
5. 將螺帽及筒夾鎖入刀把。
6. 將欲使用之刀具插入筒夾中。為操作安全，請務必將刀具插入筒夾底端或2/3以上的深度。
7. 使用附屬的專用扳手鎖緊螺帽，使刀把夾持住刀具。
8. 為防止刀具脫落而造成意外傷害，請確實鎖緊刀具後再裝上主軸使用。(泛用機器上的直接換刀操作不在此限。請參照步驟1-7。)



Milling Chuck Manual

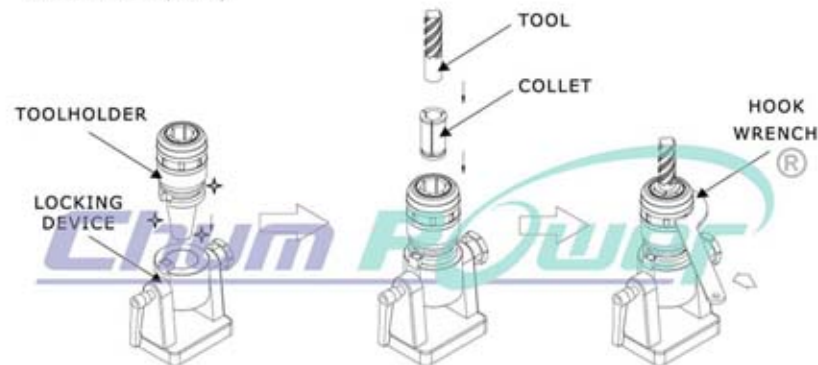
Milling Chuck 裝配須知

CP690622

- Mount Milling Chuck firmly according to "HOW TO MOUNT" in this manual. Otherwise, the Milling Chuck might be loosened, which may eventually result in serious bodily injuries or accidents for user.
- Check and confirm the tool is clamped firmly by the chuck before starting operation. Improper clamping of the tool will cause its abnormal runout, breakage or detaching of the chuck, which may result in serious injuries or accidents for user.
- Please use the proper Milling Chuck to clamp the tool to avoid its abnormal runout and bits dropping off, which may result in serious injuries or accidents for user.
- DO NOT change the tool on the spindle to avoid causing serious accidents and injuries for user due to turning idly in the spindle itself. When idling, please turn power off or press Emergency Stop Button.
- DO NOT touch the tool or Milling Chuck when rotating. Otherwise, user might be hauled by the rotating machine, which may result in serious injuries or accidents.
- DO NOT manipulate Milling Chuck before the spindle stops totally. Otherwise, user might be hauled by the rotating machine, which may result in serious injuries or accidents.
- DO NOT use Milling Chuck anymore if some abnormal conditions, like cracks, breakage or transformation are detected thereon. Otherwise, it may result in serious injuries or accidents for user.
- DO NOT make any repairing, re-assembling nor remodeling on Milling Chuck. Otherwise, it'll cause the weak function or abnormal runout of the chuck.
- Please operate Milling Chuck under normal and clean usage.
- Please wipe iron filings away before and after operating Milling Chuck. Also, it's necessary to do anti-corrosion treatment to ensure the longevity of this chuck.

HOW TO MOUNT:

1. Please use the tool with tolerance h7 Shank, which keeps the tool and straight collet under the best clamping condition. It not only affects the capacity of the chuck, but also hurts the straight collet and Milling chuck itself if using the broken tool.
2. Accordingly, put the tool holder into the locking device and fix its direction to avoid shaking fore and after.
3. Please put the straight collet and the tool into the Milling chuck by steps.
4. For safety, please insert the tool into the bottom of collet or the depth of 2/3.
5. Please use the attached hook wrench to tighten the nut with the strength 60~85Nm, thus the tool holder could maximum the torsion to 1500Kg-Cm. Do not rotate or knock the nut excessively for fear of the abnormal runout and breakdown.
6. Please operate the Milling chuck on the spindle after tightening the tool. (The operation of changing the tool directly on Universal machine shall not be limited on this instruction. Please follow above steps 1-5.)



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Milling Chuck Manual

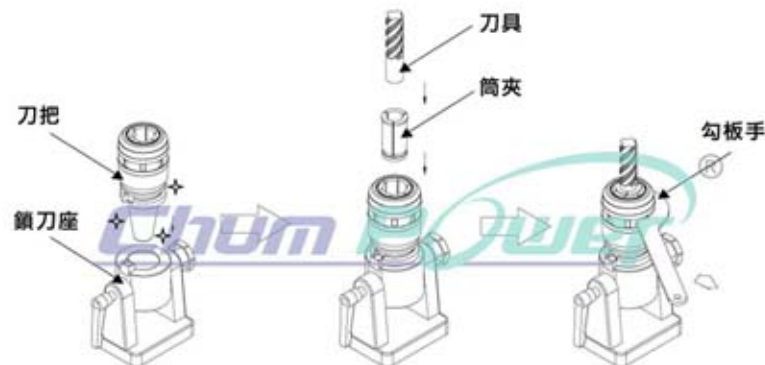
Milling Chuck 裝配須知

CP690622

- 依據此手冊中教導“裝置及固定”之步驟，正確完成裝置此刀把。否則此刀把鬆脫可能造成使用者嚴重的意外傷害。
- 開始操作前，檢查並確認刀把是否確實地夾持住您所使用的刀具。錯誤的夾持可能產生精度差異、刀把破損或解體，進而造成使用者嚴重的意外傷害。
- 請使用適當的工具來夾持刀具，以及使用適當的刀具，以避免精度偏差及因刀具脫落而造成使用者嚴重的意外傷害。
- 請勿在主軸上更換刀把上之刀具，以免因夾持力不足而造成使用者嚴重的意外傷害。(若為在泛用機器上的直接換刀操作，請避免主軸空轉。主軸錯誤回轉時，請切斷電源，或按下緊急停止鈕，停止運轉。)
- 請勿觸碰正在轉動中的刀把或刀具，否則可能會被正在運轉中的機器拖住，造成嚴重的意外傷害。
- 主軸還未完全停止前，請勿操作刀把；否則可能會被正在運轉中的機器拖住，造成嚴重的意外傷害。
- 刀把、筒夾及刀具出現外觀破裂、外型損壞或變形等等異常狀況時，請勿再繼續使用，否則可能造成嚴重的意外傷害。
- 切勿作任何修復、重組甚至重新改造此刀把之動作。否則將造成產品機能衰減、精度不良，及引起嚴重的意外傷害。
- 請在刀把無污損的狀態下使用。
- 請於使用前、後拭淨沾粘的鐵屑，並作適當的防鏽處理，以確保刀把壽命。為長期保持精度穩定，請於加工完畢後，將筒夾及鐵刀卸除。

裝置固定步驟：

1. 請使用公差h7柄徑的刀具。刀具與直式筒夾間無任何間隙時可達成夾持的最佳狀態。若使用損傷的刀具不僅會影響夾持力，亦可能造成直式筒夾及刀把的損傷。
2. 先將刀把置於鎖刀座內，並固定好方向避免前後搖晃。(若為在泛用機器上直接換刀使用的情況下，請注意勿使主軸空轉或錯誤運轉。)
3. 請依序將直式筒夾及所需使用之刀具置入刀把螺母中。
4. 為操作安全，請務必將刀具插入筒夾底端或2/3以上的深度。
5. 使用附屬專用扳手，鎖緊螺母，使刀把夾持住刀具。鎖緊力約5~8Kg，此時刀把最大扭矩約達1500Kg-Cm。請勿過度旋轉或敲擊螺母以免影響精度及造成故障。
6. 鎖緊刀具後，才可裝置於主軸上使用。(泛用機器上的直接換刀操作不在此限，請參照步驟1-5。)



Z-22

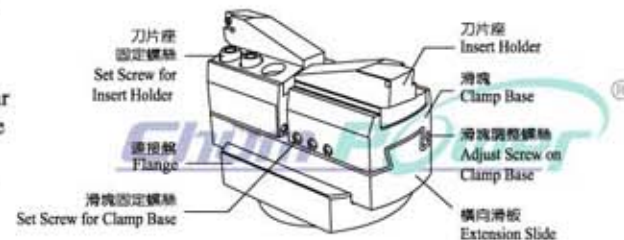
Twin-bit Rough Boring Heads (For type no.above RBH200LA) Manual

新型大徑雙刀粗磨刀(RBH200LA以上)組合系列裝配須知 CP690622

非常感謝您購買RBH-LA200以上新型雙刀粗磨刀。為了使本製品功能充分發揮而提高產能效率，使用前，請務必充分閱讀本使用說明書。如有不明白之問題，請直接詢問各經銷商或E-mail與我們連絡。

Many thanks for your purchase of new style large diameter modular twin-bit rough boring head (type no. above RBH200LA). To enable a full utilization & higher performance, be sure to read over this instruction before use. Is there still any question after reading this instruction, please consult your local dealer or email us.

產品主要部位名稱 Main Components

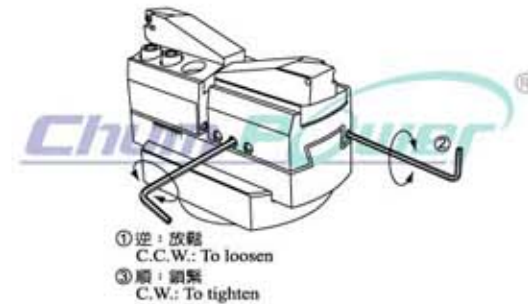


使用順序 Adjustment Procedures

請參照圖面，依照下列 1~3之順序來操作。
Follow steps 1-3 by referring to the figure.

1. 鬆開滑塊固定螺絲。
2. 於刀具設定儀上旋轉滑塊調整螺絲，使刀片座到達預定切削尺寸。
3. 用適當扭力鎖緊滑塊固定螺絲。

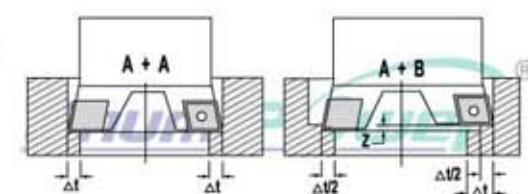
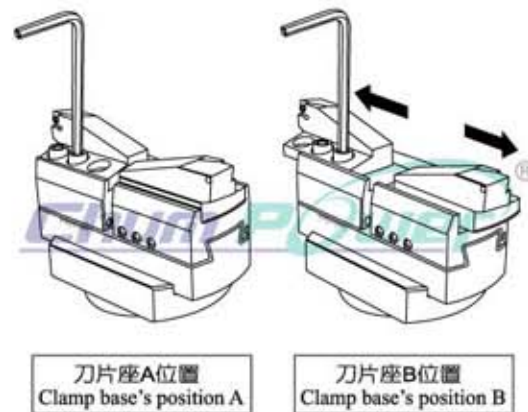
1. Loosen Set screw for clamp base.
2. On tool pre-setter turn the adjust screw on clamp base to make insert holder reach desired boring diameter.
3. Fix set screw for clamp base by proper torque.



加工方式 Applications:

1. 平刃式切削加工，A、B兩刃等高等徑切削，此時 切削進給為單刃切削的兩倍(2Q)。適用於切削量少時或鑄鐵、鋁、銅等易切削材質 使用。
2. 高低刃切削加工，AB兩刃不等高，不等徑切削，此時切削進給與單刃切削相同(1Q)，適用於切削量多或難切削材質如鋼材等。
 - a. 高低刃調整時須於小徑邊加入刀片座墊片使之成為高邊。
 - b. 切削量調整(Δt)須注意高刃與低刃須均等。以平衡作用於兩邊之切削反作用力相同，防止共振發生，避免單刃受力過大而損壞。
 - c. 搪孔尺寸調整分別為 (1) 刀片座鎖於滑塊A位置時，滑塊調整範圍直徑φ60mm內 (如φ200mm可調至φ260mm)。(2)刀片座鎖於滑塊B位置時，調整範圍直徑增加50mm(A位置為φ200mm，B位置即為φ250mm)。

1. For level cutting, bit A and bit B are of a diameter at the same level with double feed of single-bit cutting (2Q), applicable for light cutting or easily processed materials such as cast iron, aluminum, copper, etc.
2. For step cutting, both boring diameter and cutting height of bit A and bit B are different. And cutting feed is the same as single-bit cutting's (1Q), applicable for heavy cutting or for stubborn materials such as steel, etc.
 - a. Insert Height Setting Shim to small diameter edge to make it a higher edge during high/low bit adjustment.
 - b. Make sure that higher bit and lower bit should be equally adjusted in cutting gain. (Δt) so as to counterweight the counter force imposed on both sides and get rid of resonance that might damage bits due to an excess unilateral pressure.
 - c. Boring diameter adjustment includes: (1) The adjustment range of clamp base is within φ60mm if insert holder is fixed at Clamp base's position A. (For example, the range can be extended to φ260mm if it is φ200mm.) (2) The adjustment range can be extended up to 50mm if the clamp base is fixed at Clamp base's position B. (For example, if position A is φ200mm, then B would be φ250mm.)



Twin-bit Rough Boring Heads (For type no.above RBH200LA) Manual

新型大徑雙刀粗磨刀(RBH200LA以上)組合系列裝配須知 CP690622

使用者注意事項

1. 請使用於加工範圍內。
2. 若刀片座有些微損壞應立即更換，以免損及整體刀座。
3. 鎖固螺絲必須確實鎖緊以避免刀片座飛出。但亦不能用長扳手強力施壓，以免刀片座固定螺絲斷裂。
4. 加工時應注意機件、材料之特性，及排屑、冷卻等條件適時調整加工數據，以避免刀具的損壞。
5. 加工時應儘量避免使用導致刀桿共振之切削條件。長刃切削時應降低轉速(S)及切削深度(Δt)及每轉進給(Q)。

Precautions Before Use:

1. Apply only within specified working range.
2. Insert Holder should be changed immediately after defect found to avoid damage of the whole boring system.
3. Securely fix the set screws to prevent insert from flinging. Do not forcibly tighten them by wrench of extended length to avoid breakage on set screws.
4. Duly adjust the cutting data to the nature of parts assemblies or materials and conditions of cooling or chip flow to avoid breakage of tooling.
5. Avoid any cutting conditions that might lead to tool holder resonance. Decrease speed(S), boring depth (Δt) and feed per revolution (Q) for extension boring.

切削數據表 Cutting Data Table

捨棄式刀片編號 Insert	刀片材質 Grade	被切削材質 Materials processed	切削速度 Speed (m/min)	進刀速度 Feed (mm/rev)	切削深度 Depth(mm)
CCMT060204-HM	WTE25	合金鋼 Steel	120~180	0.10~0.50	0.50~2.00
CCMT09T308-HM	WTE25	不鏽鋼 Stainless Steel	100~160	0.10~0.30	2.00~3.50
CCMT120408-HM	WTA15	鑄鐵 Cast Steel	150~200	0.10~0.50	2.00~4.00
TCMT110204-HM	YD101	鋁合金 Aluminum & Alloys	300~500	0.10~0.50	0.50~3.00
TCMT16T308-HM	YBG202	高硬度材質 Hard Material	40~80	0.06~0.15	2.00~4.50
TCMT220408-HM					2.00~8.00

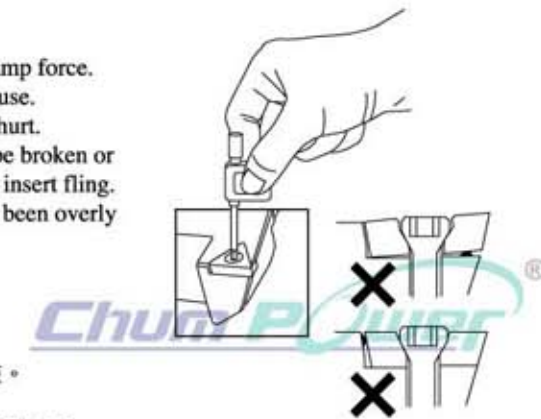
拋棄式刀片安裝時之注意事項 Notes during setup of throw-away inserts:

1. 於安裝拋棄式刀片前，請確認RBH頭部無傷痕、無附著切屑及龜裂等；當有傷痕、附著切屑及龜裂等時，會導致精度降低及鎖固力降低，所以請充分去除附著於RBH頭部滑動部之刀片安裝面上的傷痕、熔著物、切屑及油份等，再使用。
 2. 拋棄式刀片非常危險，所以於裝卸時，請充分注意。
 3. 拋棄式刀片之安裝，請使用既定扳手來鎖緊。過度鎖緊會導致拋棄式刀片龜裂或精度不良，鎖緊過鬆會導致精度不良或拋棄式刀片脫離。
 4. 拋棄式刀片請使用精度良好者，請勿使用切刃已經磨耗之拋棄式刀片。
1. Make sure there is no scrap, retaining chip or breakage on the RBH head. Scrap, retaining chip or breakage will decrease the accuracy as well as the clamp force. Be sure to wipe out all the attached scrap, retaining chip, fusion or oil before use.
 2. Handle with care the throw-away insert when setting them up to avoid being hurt.
 3. Use only specified wrench in the setup of throw-away insert. The insert will be broken or misaligned for being too tight, while being too loose will cause inaccuracy or insert fling.
 4. Use only high precision throw-away inserts. Do not use the ones which have been overly worn.

* 使用時之注意事項 Attentions in operation :

1. 請勿觸摸旋轉中之夾頭或刀片。
2. 請勿使用於不適當的加工條件。
3. 在未鎖緊刀片座固定螺絲時，請勿旋轉。否則滑動部會飛出，非常危險。
4. 萬一掉落或衝撞時，請立即停止使用，並確認是否有傷痕或龜裂等。
5. 大徑磨刀使用於機台自動換刀時，須注意機械本身最大容許刀徑、刀長及刀重，請於安全範圍內使用，避免刀具互相干涉發生。

1. Keep away from the chuck or insert in rotation.
2. Avoid any irregular working situations.
3. Start turning only after set screw for insert holder has been securely fixed. Cartridge fling could be fatal.
4. Stop using the tool immediately after falling or crash. Check if breakage or crack happens.
5. Before mounting the large diameter boring head for automatic tool change, notice the allowable tool span, tool length and weight, etc. Make sure to use only within secure range to avoid tool interference.



Hex Key Drill Chuck Manual

齒輪式夾頭操作須知

Thank you very much for purchasing our products. Please do not fail to read this manual before use. After reading, please keep this manual in such a place where it will be easily available for any persons at any time.

CAUTION

- ▲ Clamping or releasing the cutting tool only at standstill of machine spindle or outside the machine.
- ▲ Please spray oil on the surface to prevent corrosion before storing Hex Key Drill Chuck.

How to mount

1. Hex Key Drill Chuck is clamped by Hex Key on side of the drill chuck actuating a bevel gear. Turn hex key counter clockwise to open the drill chuck, clockwise to close it. Open the jaw of Hex Key Drill Chuck wide enough to insert the cutting tool.(FIG.1)
2. Turn Hex Key clockwise to clamp the cutting tool.(FIG.2)
3. Hex Key Drill Chuck is ready for work.(FIG.3)
4. Please turn Hex Key counter clockwise to release the cutting tool and move the cutting tool.

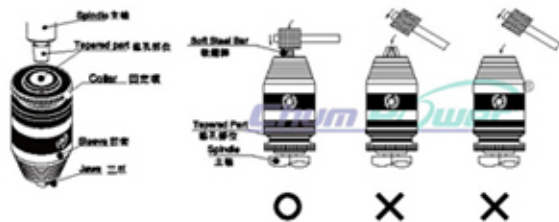
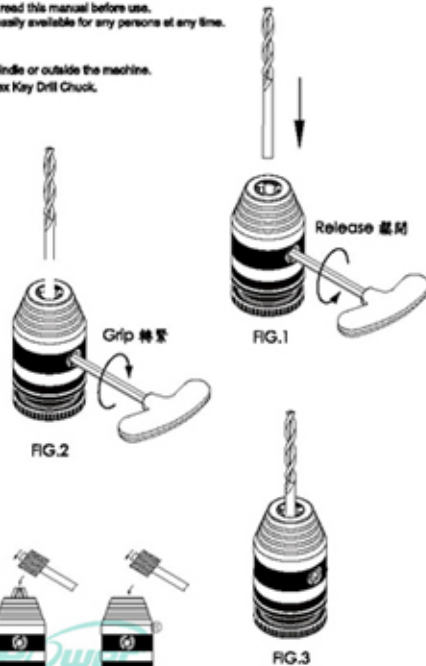
感謝 您購買本公司之產品，使用此產品前，請閱讀此操作手冊，閱讀後，請將此操作手冊放置於任何隨時隨地皆可取得之處。

注意事項

- ▲ 只在主軸停止或旋轉停止時才裝卸/更換刀具
- ▲ 在好放齒輪式夾頭之前，請在表面噴上防銹油防止生鏽。

裝置固定步驟

1. 齒輪式夾頭是以六角板手驅動夾頭之齒輪夾持刀具，旋轉六角板手可打開三爪，正確六角板手則可關閉三爪，先將夾頭之三爪調整好以放入刀具。(圖1)
2. 旋轉六角板手使夾頭能夾持刀具。(圖2)
3. 將齒輪式夾頭可開始加工。(圖3)
4. 裝置完六角板手後且移開刀具。



ATTENTION:

"Easy to operate, Convenience and the Higher Safety" are the great advantage of this kind of Drill Chuck. When operating this product, you have to read the MANUAL carefully to keep from causing the accident and promote longevity. Please follow the point as below: When you operate, the length of holding capacity(L1) will insert the drill bit to the bottom or at least insert to 2/3 of the length of three jaws(L2).

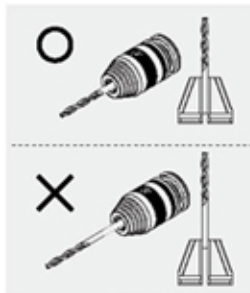
Every kind of specification (Drill Chuck) for the length of three jaws(L2) & the holding capacity (L1) is as follows. Please refer to it.

注意事項：

本產品之最大優點是操作容易、快速方便、安全性極高。當使用本產品時，為了減少意外事故發生，延長產品壽命，您請詳細閱讀操作說明書，並遵守以下列舉之基本事項，夾持長度(L1)請將鉋頭插入到底或至少爪長(L2)的2/3。

以下為各種規格夾爪長度及夾持量。

Spec. of Drill Chuck 規格	Length of Three Jaw (L2) 夾爪長度L2 (mm)	Holding Capacity (L1) 夾持量L1 (mm) 至少
5/8" (16mm)	30	20
1/2" (13mm)	28	19
3/8" (10mm)	26	17
1/4" (8.5mm)	20	13
1/8" (3mm)	14	9
5/16" (8mm)	28	17



符合CP60622A規格圖紙

