麗 勳 企 業 有 限 公 司

LI-HSUN INDUSTRIAL CO.,LTD

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LI-HSUN INDUSTRIAL CO.,LTD

LI-HSUN

MACHINE TOOLS

- LIVE CENTER
- EDGE FINDER
- Boring Head Tools

- 迴轉頂針系列
- 尋邊器系列
- 搪孔刀系列

公 司 簡 介

www.lihsun.com

COMPANY PROFILE

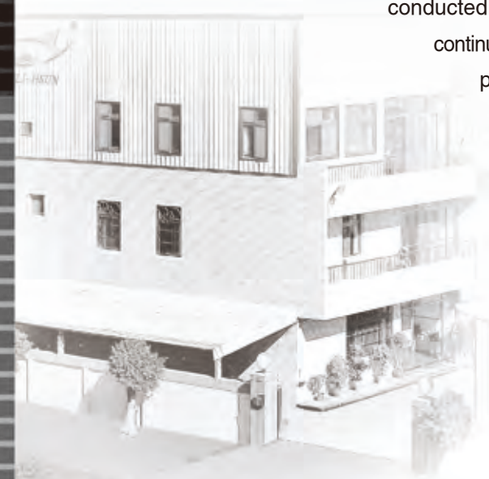
麗勳企業有限公司於西元1978年成立，一直秉持著【求質、求實、求、求新】的神理念提供顧客最好的產品與服務。更研發製造一系列CNC超高速迴轉頂針、替換式頂針、高性能頂針及重型迴轉頂針…。等產品約10多種高速、輕、中、重型之迴轉頂針。此外更進一步研發出Z軸設定器（光電型、附錶型）、尋邊器（光電式、機械式）以及不導磁之全陶瓷尋邊器、搪孔器系列。

在累積了三十幾年的技術、經驗及全體員工不斷的努力下，更積極研發設計一系列產品，為進入國際市場奠定更穩固的基礎。面對新世紀的挑戰，積極強化企業體系以增加產品競爭力；不斷提供顧客優越的產品及服務，努力朝向“發展創新、提昇效率、保證質量”，之目標向前邁進。近期本公司更朝鑽頭．銑刀研磨機系列研發、設計…。

LI-HSUN INDUSTRIAL CO., LTD. was founded in 1978 and moved into the Taichung Industrial Park in October 2003 with 1,682 meters of factory and company premise. We always adhere to the operational principle of "Looking for high quality, utility and innovation" to provide our customers with the best product service.

Under our constant research and development, we provide a series of CNC superior and high performance centers, interchangeable insert centers, high performance centers, and heavy-duty rotary centers, etc. More than ten kinds of rotary centers include high speed, light, medium-duty, and heavy-duty types. Furthermore, we have developed the Z Axial Preset (optical and dial gauge type), Edge Finder (optical and mechanical type), and non-conduction fully ceramic edge finder.

After more than three decades of rich experience having been accumulated, the specialized operations conducted with the improving technologies, along with the strong dedication and continuous effort from our staff to develop and design a series of newly innovative products, have altogether laid the solid foundation for Li Hsun to enter the global market. To face up to the challenges of the new century, Li Hsun progressively consolidates the symmetrical structure of its enterprise in order to increase the competitiveness of the products. At all times, Li Hsun aims to provide the users with superior products and outstanding service. Striving to continue our innovative product development with guaranteed quality is our ultimate and highest regard. Li Hsun currently devotes its R&D energy into fast drill and end mill re-sharpening machines.



INDEX

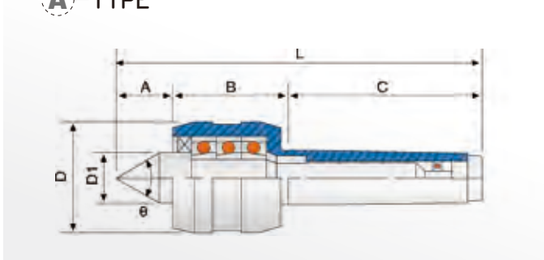
超高速迴轉頂針

SUPER HIGH-SPEED, WATER-PROOF TYPE

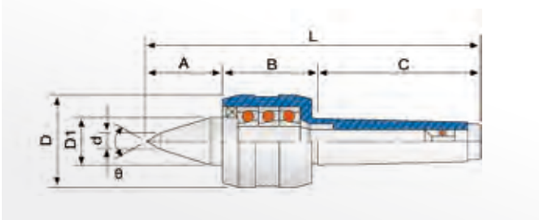
RPM:8000-10000 MT/MK.3,4,5

NCP 型 LIVE CENTER

A-TYPE



B-TYPE

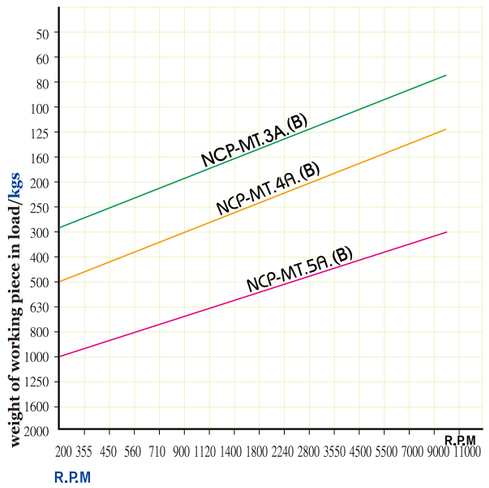


1. 此頂針使用精密斜角滾珠軸承及滾針軸承，滾珠軸承之組合。
2. 適用於CNC車床，具高轉速使用。

※ NCP-B型；適合小工作物加工使用。

1. The center uses precision angular contact ball bearing and the combination of needle bearing and ball bearing.
2. Applicable to CNC lathes, can be used at high speed turning, and is water-proof .

※ NCP-B type: Long nose live centers are suitable for small workpieces.



單位/Unit:mm

ORDER NO.	MORES TAPER MT/MK	A	B	C	D	D1	d	L	Co精度 Accuracy	Max R.P.M	θ	G.W. WEIGHT kgs	包 裝 尺 寸 L x W x H
08010003	NCP-MT.3A	38	58	86	48	30	-	182	0.003	10000R.P.M	60°	1.14 kgs	240 x 80 x 65
08010004	NCP-MT.4A	45	65	108	62	32	-	215	0.003	10000R.P.M	60°	2.20 kgs	257 x 100 x 90
08010005	NCP-MT.5A	50	70	136	72	40	-	256	0.003	8000R.P.M	60°	3.70 kgs	300 x 100 x 90
08010013	NCP-MT.3B	48	58	86	48	30	10	192	0.003	10000R.P.M	60°	1.18 kgs	240 x 80 x 65
08010014	NCP-MT.4B	52	65	108	62	32	12	225	0.003	10000R.P.M	60°	2.24 kgs	257 x 100 x 90
08010015	NCP-MT.5B	60	70	136	72	40	14	266	0.003	8000R.P.M	60°	3.74 kgs	300 x 100 x 90

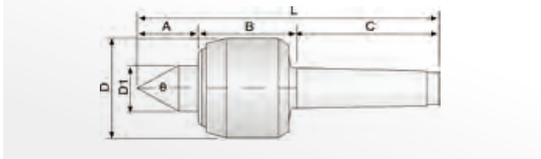
高性能迴轉頂針

HIGH-PERFORMANCE TYPE

RPM:2300-5500 MT/MK.2,3,4,5,6

NCK 型 LIVE CENTER

A-TYPE



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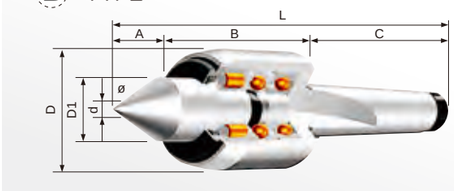
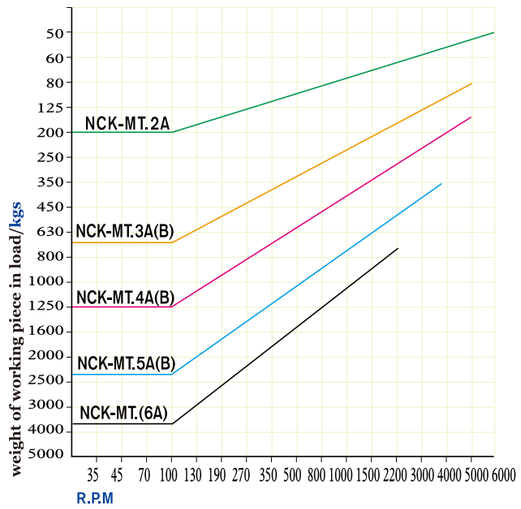


1. 心軸使用合金工具鋼之材質，經真空熱處理為(HRC60°±1°)具高鋼性及耐磨性。
2. 此頂針使用圓筒滾柱軸承及止推軸承。深溝滾珠軸承之組合，適合CNC車床使用、有防水設計。

※ NCK-B型；適合小工作物加工使用。

1. The shaft is made of alloy steel and through vacuum heat treatment HRC60°±1°. It possesses great rigidity and high durability.
2. The center uses the combination of roller bearing, thrust ball bearing and ball bearing.
3. Applicable to CNC lathes, can be used at high speed turning, and is water-proof .

※ NCK-B type: Long nose live centers are suitable for small workpieces.



單位/Unit:mm

ORDER NO.	MORES TAPER MT/MK	A	B	C	D	D1	d	L	Co精度 Accuracy	Max R.P.M	θ	G.W. WEIGHT kgs	包裝尺寸 L x W x H
08010022	NCK-MT.2A	20	38	69	32	13	-	127	0.003	6000R.P.M	60°	0.38 kgs	180 x 50 x 40
08010023	NCK-MT.3A	34	61	86	58	25	-	181	0.003	5200R.P.M	60°	1.58 kgs	240 x 80 x 65
08010024	NCK-MT.4A	44	72	109	76	35	-	225	0.003	5000R.P.M	60°	3.04 kgs	257 x 100 x 90
08010025	NCK-MT.5A	60	91	136	95	45	-	287	0.003	3500R.P.M	60°	6.54 kgs	320 x 118 x 115
08010026	NCK-MT.6A	64	106	190	120	58	-	360	0.008	2300R.P.M	60°	15.0 kgs	425 x 185 x 180
08010033	NCK-MT.3B	45	61	86	58	25	10	192	0.003	5200R.P.M	60°	1.58 kgs	240 x 80 x 65
08010034	NCK-MT.4B	55	72	109	76	35	12	236	0.003	5000R.P.M	60°	3.10 kgs	257 x 100 x 90
08010035	NCK-MT.5B	70	91	136	95	45	14	297	0.003	3500R.P.M	60°	6.54 kgs	320 x 118 x 110

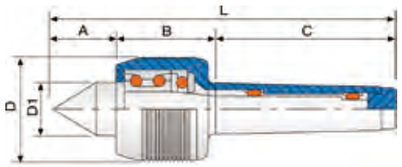
重負荷頂針

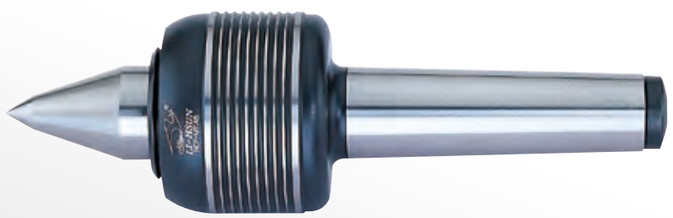
HEAVY-LOAD TYPE

RPM: 4000-6000 MT/MK.3, 4, 5

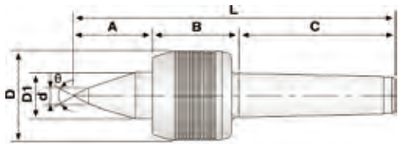
NCF 型 LIVE CENTER

Ⓐ-TYPE



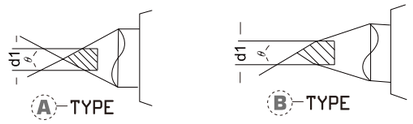


Ⓑ-TYPE

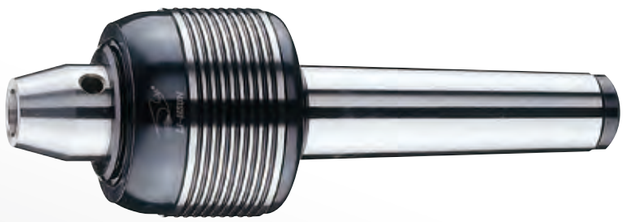


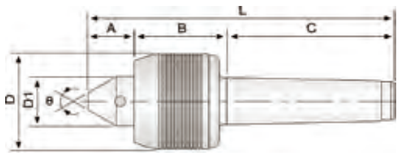
特殊規格 SPECIAL ORDER

鎢鋼 WITH CARBIDE TIPPED



NCFP 型 LIVE CENTER





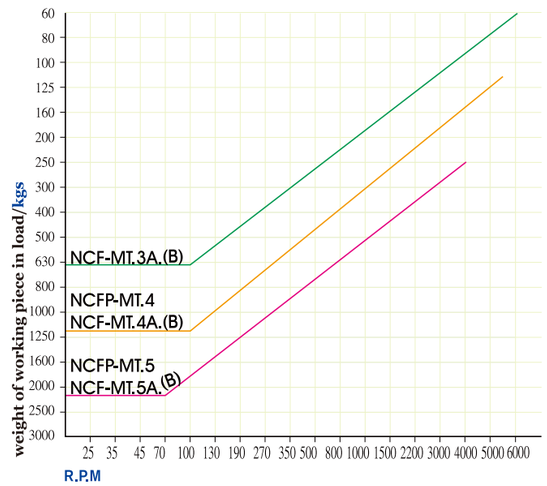
NCF 型 LIVE CENTER

1. 心軸使用合金工具鋼之材質，經真空熱處理為(HRC60°±1°)具高鋼性及耐磨性。
2. 此頂針使用圓筒滾柱軸承及止推軸承。深溝滾珠軸承之組合，適合CNC車床使用、有防水設計。

※ NCF-B型；適合小工作物加工使用。

1. The shaft is made of alloy steel and through vacuum heat treatment (HRC 60±1°). It possesses great rigidity and high durability.
2. The center uses the combination of roller bearing, thrust ball bearing and ball bearing.
3. Applicable to CNC lathes, can be used at high speed turning, and is water-proof.

※ NCF-B type: Long nose live centers are suitable for small workpieces.



單位/Unit:mm

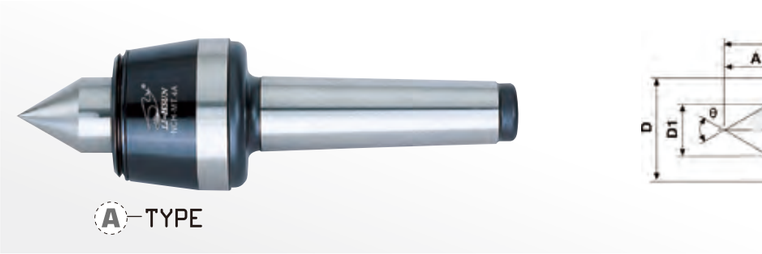
ORDER NO.	MORES TAPER MT/MK	A	B	C	D	D1	d	L	d1	Co精度 Accuracy	Max R.P.M	θ	G.W. WEIGHT kgs	包裝尺寸 L x W x H
08020003	NCF-MT.3A	38	50	86	53	30	-	174	12	0.003	6000R.P.M	60°	1.26 kgs	240 x 80 x 65
08020004	NCF-MT.4A	45	60	108	68	32	-	213	12	0.003	5500R.P.M	60°	2.38 kgs	257 x 100 x 90
08020005	NCF-MT.5A	52	70	136	87	40	-	258	18	0.003	4000R.P.M	60°	4.82 kgs	320 x 118 x 115
08020013	NCF-MT.3B	52	50	86	53	30	10	188	12	0.003	6000R.P.M	60°	1.28 kgs	240 x 80 x 65
08020014	NCF-MT.4B	55	60	108	68	32	12	223	12	0.003	5500R.P.M	60°	2.40 kgs	257 x 100 x 90
08020015	NCF-MT.5B	67	70	136	87	40	14	273	18	0.003	4000R.P.M	60°	4.90 kgs	320 x 118 x 115
08020024	NCFP-MT.4	29	64	108	68	32	-	201	-	0.005	5500R.P.M	30°	2.96 kgs	238 x 132 x 80
08020025	NCFP-MT.5	37	70	136	87	40	-	243	-	0.005	4000R.P.M	30°	5.40 kgs	280 x 150 x 106

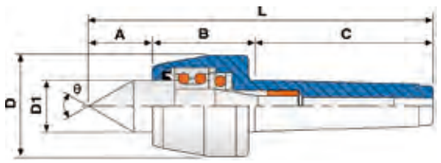
高速頂針

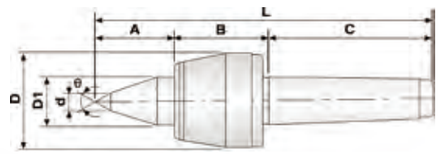
HIGH-SPEED, WATER-PROOF TYPE

RPM: 1500 - 5000 MT/MK.3, 4, 5, 6

NCH 型 LIVE CENTER

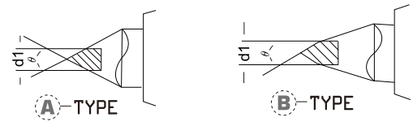




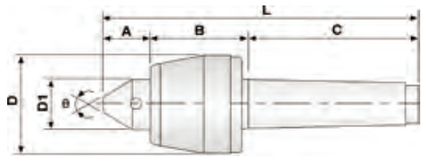


特殊規格 SPECIAL ORDER

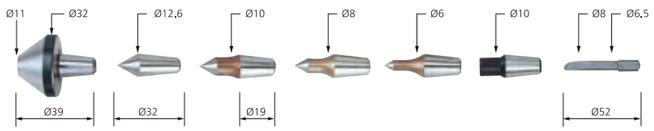
鎢鋼 WITH CARBIDE TIPPED



NCS 型 LIVE CENTER

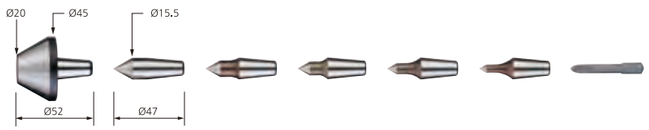


NCS-MT3 MT.4



G230 G212 G210 G208 G206 G205 G200

NCS-MT4P MT.5P

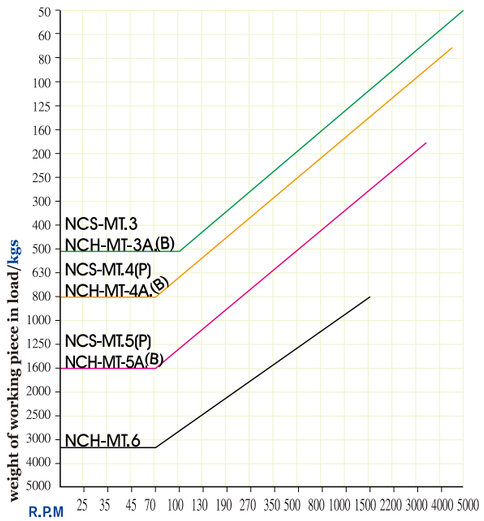


G345 G316 G312 G310 G308 G306

高速頂針(附螺帽型)

HGIH SPEED, WATER-PROOF TYPE

NCH 型 LIVE CENTER



MORES TAPER MT / MK	DIMENSIONS (mm)		
	A	B	C
NCH-MT.4AT NCH-MT.4BT	69	M60 x 1.5	20
NCH-MT.5AT NCH-MT.5BT	92	M80 x 1.5	25

1.前端使用雙列滾珠軸承及止推軸承，滾針軸承之組合。
2.此頂針適用於CNC車床，具中重負荷使用，具防水性。
※ NCH-B型;適合小工作物之加工切削。

1. Center shaft is made of alloy steel and hardened through vacuum heat treatment to provide higher rigidity HRC 60±1°.
2. Center is fitted with dual ball bearing, thrust bearing and needle roller bearing assembly.
3. Applicable to high speed lathes and CNC lathes with heavy loads.

vvv

單位/Unit:mm

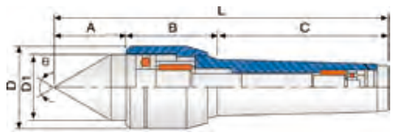
ORDER NO.	MORES TAPER MT/MK	A	B	C	D	D1	d	L	d1	Co精度 Accuracy	Max R.P.M	θ	G.W. WEIGHT kgs	包裝尺寸 L x W x H
08030003	NCH-MT.3A	39	55	86	53	30	-	180	12	0.003	5000R.P.M	60°	1.28 kgs	240 x 80 x 65
08030004	NCH-MT.4A	42	62	108	63	32	-	208	12	0.003	4500R.P.M	60°	2.08 kgs	257 x 100 x 90
08030005	NCH-MT.5A	49	71	136	83	40	-	256	18	0.003	3500R.P.M	60°	4.42 kgs	320 x 118 x 115
08030006	NCH-MT.6A	80	110	189	128	70	-	379	-	0.008	1500R.P.M	60°	15.7 kgs	425 x 185 x 180
08030013	NCH-MT.3B	45	55	86	53	30	10	186	12	0.003	5000R.P.M	60°	1.30 kgs	240 x 80 x 65
08030014	NCH-MT.4B	52	62	108	63	32	12	218	12	0.003	4500R.P.M	60°	2.10 kgs	257 x 100 x 90
08030015	NCH-MT.5B	59	71	136	83	40	14	266	18	0.003	3500R.P.M	60°	4.54 kgs	320 x 118 x 115
08030023	NCS-MT.3	28	55	86	53	30	-	169	-	0.005	5000R.P.M	60°	1.50 kgs	235 x 130 x 100
08030024	NCS-MT.4	30	62	108	63	32	-	196	-	0.005	4500R.P.M	60°	2.18 kgs	235 x 130 x 100
08030034	NCS-MT.4P	30	62	108	63	32	-	196	-	0.005	4500R.P.M	30°	2.70 kgs	238 x 132 x 80
08020035	NCS-MT.5P	34	71	136	83	40	-	237	-	0.005	3500R.P.M	30°	5.00 kgs	280 x 150 x 106
08020044	NCH-MT.4AT	42	62	108	60	32	-	208	12	0.003	4500R.P.M	60°	2.46 kgs	257 x 100 x 90
08020045	NCH-MT.5AT	49	71	136	80	40	-	256	18	0.003	3500R.P.M	60°	5.12 kgs	320 x 118 x 115
08020054	NCH-MT.4BT	52	62	108	60	32	12	218	12	0.003	4500R.P.M	60°	2.52 kgs	257 x 100 x 90
08020055	NCH-MT.5BT	59	71	136	80	40	14	266	18	0.003	3500R.P.M	60°	5.20 kgs	320 x 118 x 115

迴轉頂針

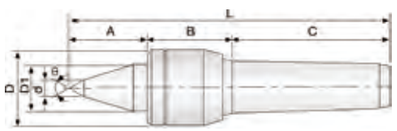
ROLLING TYPE

RPM: 2000 - 5000 MT/MK.2, 3, 4, 5

NK 型 LIVE CENTER



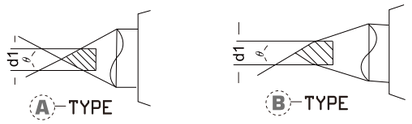
Ⓐ-TYPE



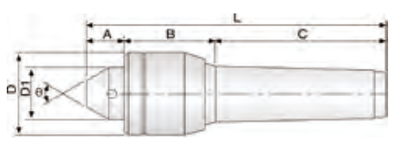
Ⓑ-TYPE

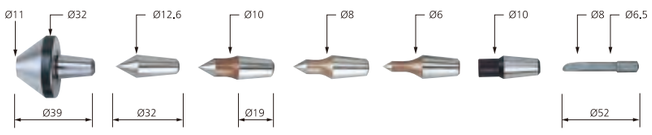
特殊規格 SPECIAL ORDER

鎢鋼 WITH CARBIDE TIPPED



NKS 型 LIVE CENTER





G230 G212 G210 G208 G206 G205 G200

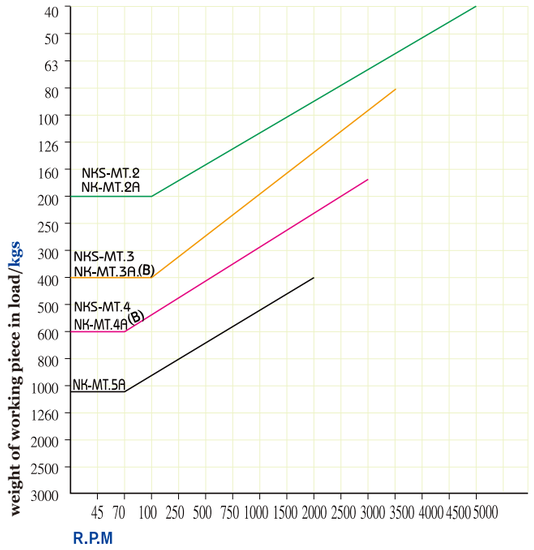
NK 型 LIVE CENTER

1. 心軸及本體使用軸承鋼之材質，經適當熱處理為(HRC60°±1°)。
2. 此頂針使用止推軸承，針狀軸承及滾針軸承，滾珠軸承之組合。
3. 適用中、高速之車床，及中負載使用。

※ NK-B型;適合中小工作物之加工切削。

1. Center shaft and main body are made of alloy steel and hardened to (HRC60°±1°).
2. Center is assembled with thrust bearing, needle bearing and ball bearing.
3. Applicable to medium and high speed lathes with heavy loads.

※ NK-B model: Long nose live centers are suitable for small workpieces.



單位/Unit:mm

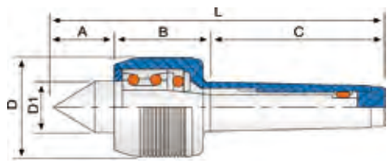
ORDER NO.	MORES TAPER MT/MK	A	B	C	D	D1	d	L	d1	Co精度 Accuracy	Max R.P.M	θ	G.W. weight kgs	包裝尺寸 L x W x H
08040002	NK-MT.2A	28	35	69	32	23	-	132	-	0.003	5000R.P.M	60°	0.36 kgs	175 x 45 x 45
08040003	NK-MT.3A	36	44	86	41	35	-	166	12	0.003	3500R.P.M	60°	0.88 kgs	200 x 60 x 50
08040004	NK-MT.4A	41	51	108	47	40	-	200	12	0.003	3000R.P.M	60°	1.46 kgs	240 x 80 x 65
08040005	NK-MT.5A	54	72	136	65	52	-	262	18	0.003	2000R.P.M	60°	3.70 kgs	300 x 100 x 90
08040013	NK-MT.3B	46	44	86	41	25	10	176	12	0.003	3500R.P.M	60°	0.84 kgs	200 x 60 x 50
08040014	NK-MT.4B	55	51	108	47	32	12	214	12	0.003	3000R.P.M	60°	1.46 kgs	240 x 80 x 65
08040022	NKS-MT.2	22	36	69	32	25	-	127	-	0.005	5000R.P.M	60°	0.86 kgs	173 x 102 x 66
08040023	NKS-MT.3	23	44	86	41	30	-	153	-	0.005	3500R.P.M	60°	1.18 kgs	235 x 130 x 100
08040024	NKS-MT.4	23	51	108	47	32	-	182	-	0.005	3000R.P.M	60°	1.62 kgs	235 x 130 x 100

中負荷頂針

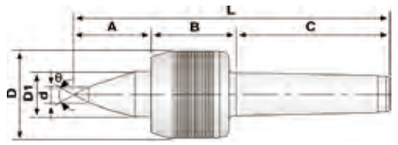
MEDIUM-LOAD TYPE

RPM: 5000 - 6500 MT/MK.4, 5

NC 型 LIVE CENTER

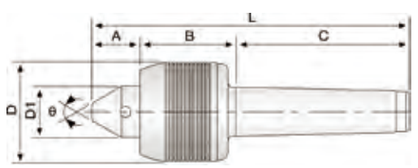


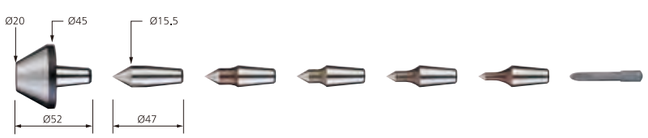
Ⓐ-TYPE



Ⓑ-TYPE

NCD 型 LIVE CENTER





G345 G316 G312 G310 G308 G306

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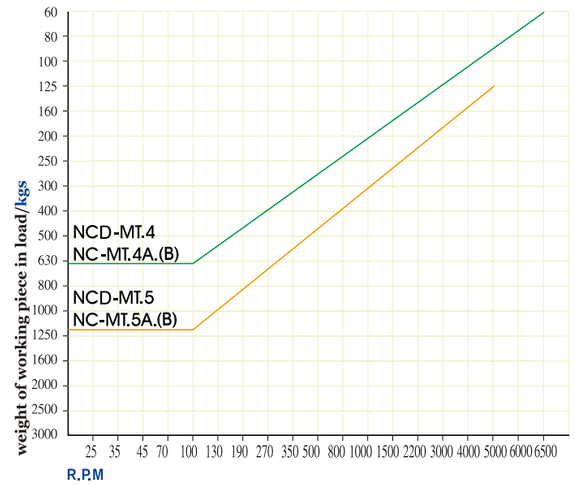
NC 型 LIVE CENTER

1. 前端使用雙列斜角滾珠軸承及止推軸承，及滾針軸承之組合。
2. 此頂針適用於CNC車床，具高速及中負荷使用，具防水性。

※ NC-B型;適合小工作物之加工切削。

1. Front end is fitted with angular contact ball bearing, thrust bearing and needle bearing.
2. These centers are suitable for CNC lathes at high-sped and medium-load. Waterproof design.

※ NC-B type: Long nose live centers are suitable for small workpieces.



單位/Unit:mm

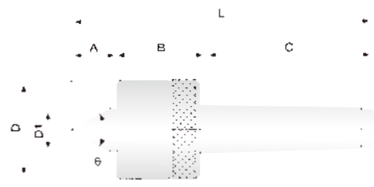
ORDER NO.	MORES TAPER MT/MK	A	B	C	D	D1	d	L	Co精度 Accuracy	Max R.P.M	θ	G.W. weight kgs	包裝尺寸 L x W x H
08200004	NC-MT.4A	44	55	108	53	30	-	207	0.003	6500R.P.M	60°	1.58 kgs	240 x 80 x 65
08200005	NC-MT.5A	48	61	136	68	35	-	245	0.003	5000R.P.M	60°	3.28 kgs	300 x 100 x 90
08200014	NC-MT.4B	52	55	108	53	30	12	215	0.003	6500R.P.M	60°	1.60 kgs	240 x 80 x 65
08200015	NC-MT.5B	58	61	136	68	35	14	255	0.003	5000R.P.M	60°	3.38 kgs	300 x 100 x 90
08200024	NCD-MT.4	33	55	108	53	30	-	196	0.005	6500R.P.M	30°	2.32 kgs	238 x 132 x 80
08200025	NCD-MT.5	37	61	136	68	35	-	234	0.005	5000R.P.M	30°	4.12 kgs	280 x 150 x 106

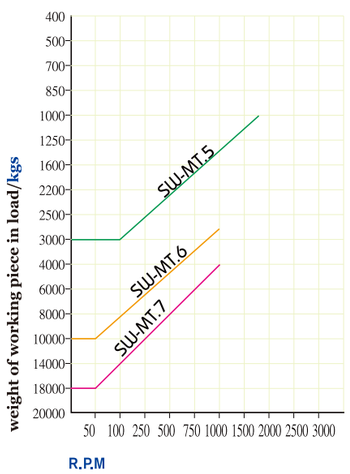
超重負荷頂針

SUPER-LOAD TYPE

RPM: 1000 - 1800 MT/MK.5, 6, 7, 80#

SW 型 LIVE CENTER





1. 心軸使用工具合金工具之材質，經真空熱處理，使心軸更具耐磨性，硬度較高(HRC60°~ 62°)。
2. 此頂針適用於重型車床及較重負荷載使用。

※ 防水設計

1. Shaft uses alloy steel and hardened through vacuum heat treatment to (HRC 60°~ 62°).
2. Applicable to heavy duty lathes.

※ Waterproof design.

單位/Unit:mm

ORDER NO.	MORES TAPER MT/MK	A	B	C	D	D1	L	Co精度 Accuracy	Max R.P.M	θ	G.W. WEIGHT kgs	包裝尺寸 L x W x H
08060005	SW-MT.5	52	82	135	98	50	269	0.005	1800R.P.M	60°	7.5 kgs	340 x 140 x 120
08060006	SW-MT.6	74	116	190	148	70	380	0.008	1000R.P.M	60°	22 kgs	425 x 185 x 180
08060007	SW-MT.7	106	127	260	196	90	493	0.008	1000R.P.M	60°	41 kgs	530 x 242 x 235
08060008	SW-MT-80#	106	127	200	196	90	433	0.008	1000R.P.M	60°	39 kgs	530 x 242 x 235

可調式頂針

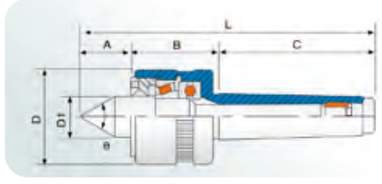
ADJUSTMENT WATER-PROOF TYPE

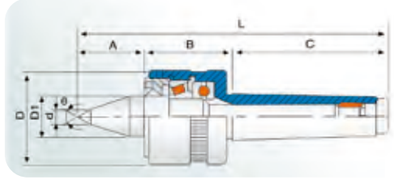
RPM: 1500 - 5000 MT/MK.3, 4, 5, 6

NCR 型 LIVE CENTER

A-TYPE

B-TYPE





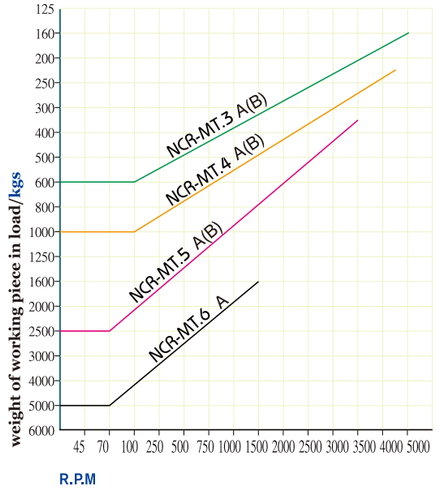
1. 心軸使用合金工具鋼之材質，經真空熱處理(HRC60°±1°)具高鋼性及耐磨性。
2. 此頂針使用滾錐軸承，止推軸承及滾針軸承之組合
3. 適用於中、重負荷使用，具防水性。

※ 防水設計

1. The shaft uses alloy steel and hardened through vacuum heat treatment to (HRC60°±1°).
2. The center uses the combination of taper roller bearing, thrust bearing and needle bearing.
3. Applicable to medium and heavy loads.
4. The center is adjustable to reach original loading capacity after using for a long period of time.

※ Long nose live centers are suitable for small workpieces.

※ Waterproof design.



單位/Unit:mm

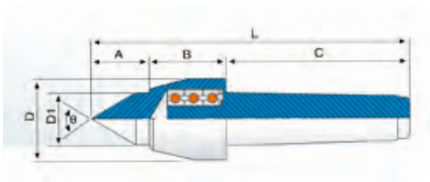
ORDER NO.	MORES TAPER MT/MK	A	B	C	D	D1	d	L	Co精度 Accuracy	Max R.P.M	θ	G.W. WEIGHT kgs	包裝尺寸 L x W x H
08070003	NCR-MT.3A	37	47	86	50	25	-	170	0.003	5000R.P.M	60°	1.06 kgs	240 x 80 x 65
08070004	NCR-MT.4A	45	59	108	65	32	-	212	0.003	4500R.P.M	60°	2.40 kgs	257 x 100 x 90
08070005	NCR-MT.5A	50	62	136	80	40	-	248	0.003	3500R.P.M	60°	4.40 kgs	320 x 118 x 115
08070006	NCR-MT.6A	66	85	189	128	60	-	333	0.008	1500R.P.M	60°	14.2 kgs	425 x 185 x 180
08070013	NCR-MT.3B	47	47	86	50	25	10	180	0.003	5000R.P.M	60°	1.08 kgs	240 x 80 x 65
08070014	NCR-MT.4B	55	59	108	65	32	12	222	0.003	4500R.P.M	60°	2.42 kgs	257 x 100 x 90
08070015	NCR-MT.5B	60	85	136	80	40	14	263	0.003	3500R.P.M	60°	4.30 kgs	320 x 118 x 115

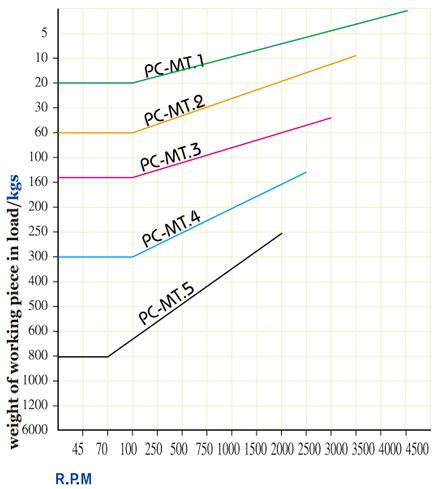
普通型頂針

NORMAL TYPE

RPM: 2000 - 4500 MT/MK.1, 2, 3, 4, 5

PC 型 LIVE CENTER





1. 此頂針使用鉻鉬鋼之材質，經適當熱處理為(HRC58°~ 60°)具高鋼性。
2. 此頂針為滾珠軸承之組合。
3. 適用於中、高速車床及經負載之使用。

1. Center is made of Cr-Mo steel and hardened to HRC 58°~ 60°.
2. Center is assembled with ball bearings.
3. Applicable to medium and high speed lathes with light duty.

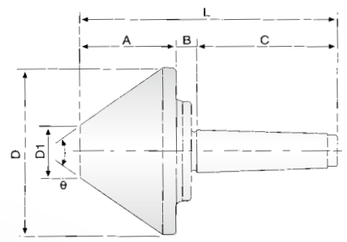
單位/Unit:mm

ORDER NO.	MORES TAPER MT/MK	A	B	C	D	D1	L	Co精度 Accuracy	Max R.P.M	θ	G.W. weight kgs	包裝尺寸 L x W x H
08080001	PC-MT.1	21	31	56	32	16	108	0.005	4500R.P.M	60°	0.22 kgs	120 x 40 x 40
08080002	PC-MT.2	26	37	69	40	22	132	0.005	3500R.P.M	60°	0.42 kgs	140 x 50 x 50
08080003	PC-MT.3	32	46	86	45	26	164	0.005	3000R.P.M	60°	0.76 kgs	170 x 50 x 50
08080004	PC-MT.4	34	46	108	48	30	188	0.005	2500R.P.M	60°	1.22 kgs	205 x 60 x 60
08080005	PC-MT.5	50	62	136	68	45	248	0.005	2000R.P.M	60°	3.20 kgs	260 x 80 x 80

傘型頂針

BULL NOSE CENTER TYPE

BC 型 LIVE CENTER



1. 傘型頂針頭部使用鉻鉬鋼材質，經熱處理(HRC60°±1°)。
2. 內部使用滾錐軸承滾珠軸成之組合。
3. 適用於較大之內孔徑之加工使用。

1. The tip of bull nose center uses Cr-Mo steel and hardened to (HRC60°±1°).
2. The center uses a combination of taper roller bearing and ball bearing.
3. Applicable to pipes turning.

單位/Unit:mm

ORDER NO.	MORES TAPER MT/MK	A	B	C	D	D1	L	Co精度 Accuracy	Max R.P.M	Load weight	θ	G.W. weight kgs	包裝尺寸 L x W x H
08102063	BC 63-MT.2	46	17	69	63	12	132	0.005	4000R.P.M	RPM100=200kg	60°	0.94 kgs	195 x 86 x 86
08103063	BC 63-MT.3	46	17	86	63	12	149	0.005	4000R.P.M	RPM100=200kg	60°	1.08 kgs	195 x 86 x 86
08103078	BC 78-MT.3	52	18	86	78	15	156	0.005	3300R.P.M	RPM100=400kg	70°	1.56 kgs	195 x 86 x 86
08103106	BC106-MT.3	59	16	86	106	25	161	0.005	3000R.P.M	RPM100=500kg	75°	2.66 kgs	220 x 120 x 120
08104063	BC 63-MT.4	46	17	108	63	12	171	0.005	4000R.P.M	RPM100=200kg	60°	1.38 kgs	195 x 86 x 86
08104078	BC 78-MT.4	52	18	108	78	15	178	0.005	3300R.P.M	RPM100=400kg	70°	1.88 kgs	195 x 86 x 86
08104106	BC106-MT.4	59	16	108	106	25	183	0.005	3000R.P.M	RPM100=500kg	75°	2.96 kgs	220 x 120 x 120
08104128	BC128-MT.4	73	12	108	128	40	193	0.005	2000R.P.M	RPM100=650kg	70°	4.84 kgs	140 x 140 x 240
08104156	BC156-MT.4	88	12	108	156	45	208	0.008	1900R.P.M	RPM100=800kg	70°	7.68 kgs	170 x 170 x 260
08104206	BC206-MT.4	98	12	108	206	81	218	0.008	1500R.P.M	RPM100=1300kg	70°	15.0 kgs	285 x 285 x 360
08104258	BC258-MT.4	107	13	108	258	92	228	0.008	1200R.P.M	RPM100=2000kg	80°	22.0 kgs	285 x 285 x 360
08105128	BC128-MT.5	73	12	136	128	40	221	0.005	2000R.P.M	RPM100=650kg	70°	5.70 kgs	140 x 140 x 240
08105156	BC156-MT.5	88	12	136	156	45	236	0.008	1900R.P.M	RPM100=800kg	70°	8.54 kgs	170 x 170 x 260
08105206	BC206-MT.5	98	12	136	206	81	246	0.008	1500R.P.M	RPM100=1600kg	70°	16.0 kgs	285 x 285 x 360
08105258	BC258-MT.5	107	13	136	258	92	256	0.008	1200R.P.M	RPM100=2200kg	80°	25.0 kgs	285 x 285 x 360
08105306	BC306-MT.5	107	30	136	306	120	273	0.01	1000R.P.M	RPM100=3000kg	90°	37.0 kgs	340 x 340 x 360
08106206	BC206-MT.6	98	12	190	206	81	300	0.008	1500R.P.M	RPM100=2000kg	70°	20.0 kgs	285 x 285 x 360
08106258	BC258-MT.6	107	13	190	258	92	310	0.008	1200R.P.M	RPM100=2500kg	80°	29.0 kgs	285 x 285 x 360
08106306	BC306-MT.6	107	30	190	306	120	327	0.01	1000R.P.M	RPM100=3000kg	90°	40.0 kgs	340 x 340 x 360

免夾頂針

WORK-DRIVING CENTER

DK 型 WORK-DRIVING CENTER - FIXED TIP

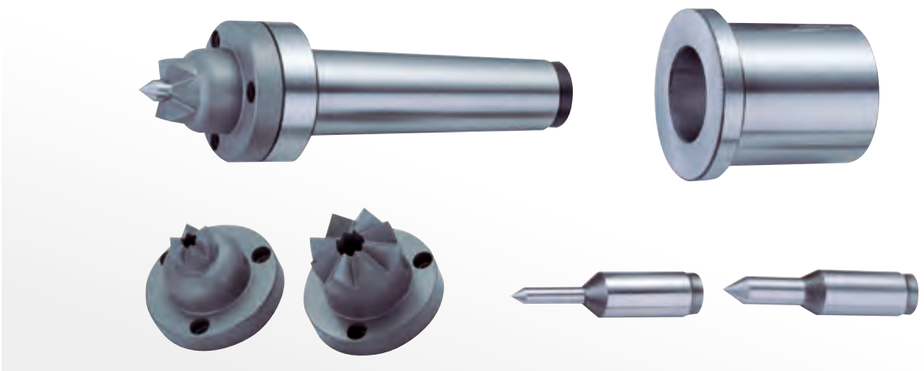
1. 此免夾頂針因機械之結構，故障率低。經深冷熱處理為(HRC60° ±1°)。
2. 以往車床加工使用傳動夾來帶動，避免工作物之停止，此免夾頂針在本體端面有6T及8T之設計來頂住加工之端面，就可免用傳動夾，使加工方便速度更快。
3. 此免夾頂針，滾齒機械可適用。

1. Body and center shaft are made of alloy steel with heat and sub-zero treatment.

※ Hardened: HRC60° ±1°.

2. Driving dog is required for traditional lathes turning to prevent workpiece from stopping. These work driving centers are either with 6 teeth or 8 teeth design for superseding the driving dogs. It supports the workpiece on end surface for easy setup and rapid machining.
3. The work-driving center is also applicable for gear hobbing machine.

DKS 型 WORK-DRIVING CENTER - CHANGEABLE TIPS



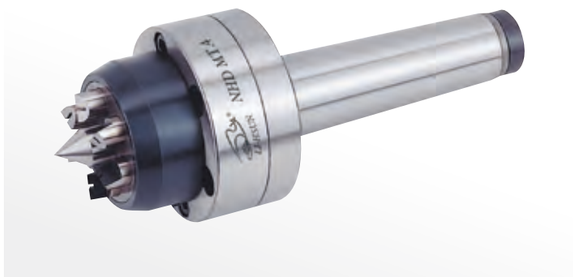
單位/Unit:mm

ORDER NO.	MORES TAPER MT/MK	心軸尺寸 Center Shaft size	外徑尺寸 Outer dia	工作範圍 Working range	G.W. WEIGHT kgs	包裝尺寸 L x W x H
08090015	DK-15 MT.4	6Ø	16Ø	16Ø-25Ø	0.60 kgs	175 x 40 x 40
08090023	DK-23 MT.4	8Ø	23Ø	23Ø-32Ø	0.64 kgs	175 x 40 x 40
08090032	DK-32 MT.4	8Ø.14Ø	32Ø	32Ø-45Ø	0.68 kgs	175 x 40 x 40
080900301	DKS-301 MT.4	6Ø.8Ø.12Ø	16Ø.23Ø.30Ø	15Ø-45Ø	2.56 kgs	270 x 140 x 110

自動式傳動頂針

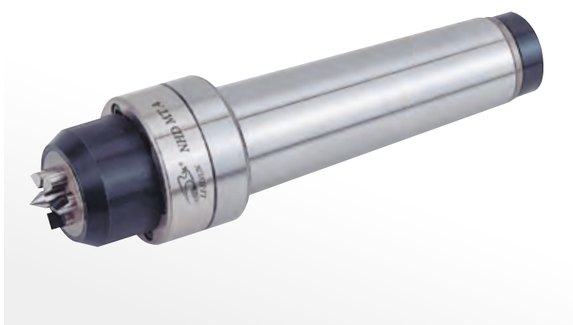
AUTO ADJUSTABLE TRANSMISSION CENTER

NHD 型 TRANSMISSION CENTER



車床、CNC車床適用

1. 此自動式免夾頂針，適用端面不平的加工物。加工時，頂針之5T.6T會自動調整受力點，使加工物件能夠平均受力。
2. 其內部結構為強力優力膠設計，使頂針有較好的耐用性，不易破碎。在維修方面，也較容易更換。



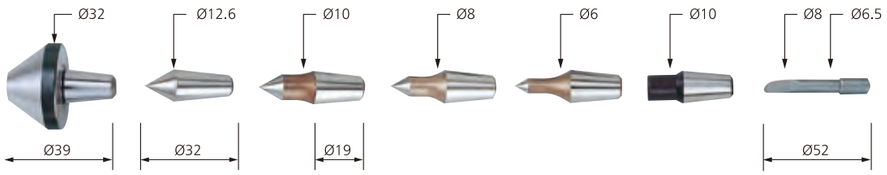
LATHE, CNC LATHE

1. The auto adjustable transmission center is suitable for the asperities of workpieces. The auto adjustable transmission center with 5Tand 6T design on end surface is able to adjust the stress point so that the workpieces will be done easily.
2. The inside structure of the center is comprised of PU. It is nearly free of break-down, and is durable and easy to fix.

單位/Unit:mm

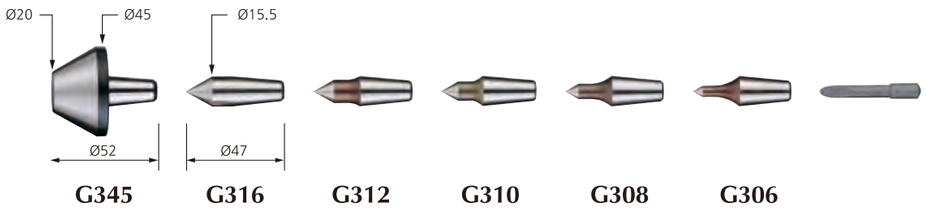
MORSE TAPER MT / MK	心軸尺寸 Center shaft size	外徑尺寸 Outer Dia.	工作範圍 Working Range	G.W. WEIGHT kgs	包裝尺寸 L x W x H
NHD-31 MT.4	Ø5	Ø16	12Ø~20Ø	1.76 kgs	220 x 90 x 80
NHD-32 MT.4	Ø9	Ø25	18Ø~35Ø	2.30 kgs	220 x 90 x 80
NHD-33 MT.4 / MT.5	Ø14	Ø39	30Ø~55Ø	2.94 / 3.16 kgs	230 x 110 x 100
NHD-34-MT.4 / MT.5	Ø18	Ø53	40Ø~70Ø	4.14 / 4.40 kgs	230 x 110 x 100

NCS-MT3 MT.4 NKS-MT.2.MT.3.MT.4



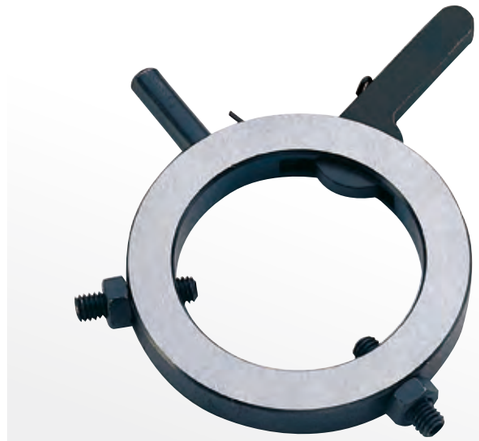
ORDER NO.	SPECIFICATION
08300230	G230
08300212	G212
08300210	G210
08300208	G208
08300206	G206
08300205	G205
08300200	G200

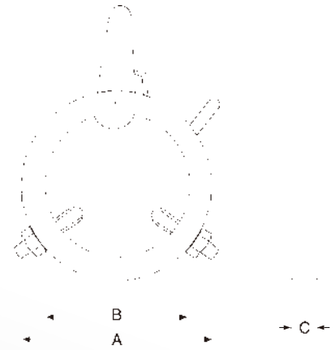
NCS-MT4P MT.5P NCD/NCFP-MT.4 MT.5



ORDER NO.	SPECIFICATION
08300345	G345
08300316	G316
08300312	G312
08300310	G310
08300308	G308
08300306	G306

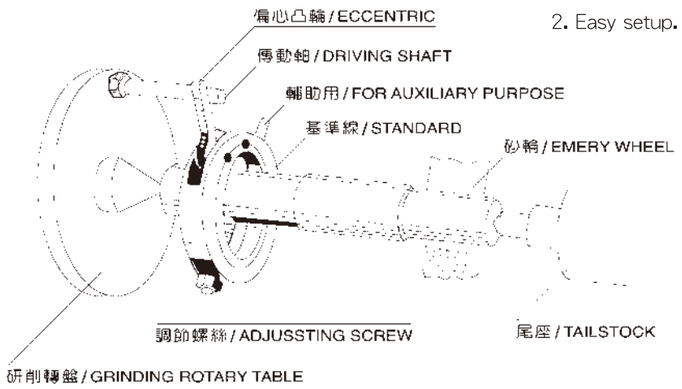
DC 型 DRIVING CENTER





1. 適合於圓筒磨床
2. 操作輕易簡便

1. Suitable for grinding shafts.
2. Easy setup.



單位/Unit:mm

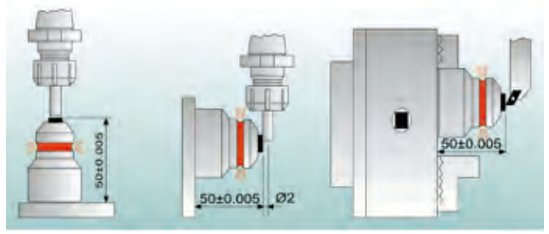
ORDER NO.	SPEC.	使用範圍/Range	A	B	C	G.W. WEIGHT kgs
08200013	DC-13	6Ø-14Ø	36	18	9	0.06 kgs
08200022	DC-22	13Ø-24Ø	48	28	9	0.08 kgs
08200030	DC-30	20Ø-33Ø	58	38	11	0.12 kgs
08200040	DC-40	31Ø-42Ø	68	48	11	0.14 kgs
08200050	DC-50	35Ø-50Ø	78	58	11	0.16 kgs
08200060	DC-60	40Ø-62Ø	89	68	11	0.18 kgs
08200080	DC-80	60Ø-80Ø	119	88	13	0.46 kgs
08200100	DC-100	80Ø-100Ø	140	109	13	0.54 kgs

EDGE FINDER

光電式Z軸設定器

AXIAL PRESET GAUGE

ZOP-50 型 Z AXIAL PRESET GAUGE (OPTICAL TYPE)



OPTICAL-TYPE

使用方法

1. 探測面下方有微調機構，調整高度請用平行塊規比測。
2. 高精度產品，不適用游標卡尺檢測精度。
3. 快速進刀至燈亮時，請輕微後退至燈熄，再慢速前進至燈亮，以確實掌握精度。
4. 側面探測時，請以刀刃之最高點接觸探測面。

※ 電池：LR44/A76/G13×2枚

ZOP-50

特點：

- 高度50mm容易計算
- 磁性底座設計，可供側面探測。
- 紅燈亮時，四周都可看見，沒有盲點。
- 精度：0.005m/m

FEATURES

- Height: 50mm
- Base built-in magnets for easy setup.
- The red lamp lights-up when touched.
- Height can be micro adjusted and audited by gauge block.
- Can be used vertically or horizontally.
- Weight: 0.3 kgs
- Battery type: LR44 / A76 / G13 x 2 pcs
- Accuracy: within 0.005mm

單位/Unit:mm

ORDER NO.	TYPE	HEIGHT	G.W. WEIGHT kgs	包裝尺寸 L x W x H
08420550	ZOP-50	50±0.005	0.64 kgs	110 x 10 x 80

Z軸設定器附錶型

Z AXIAL PRESET GAUGE (INDICATOR TYPE)

ZIP-50/50A 型 Z AXIAL PRESET GAUGE (INDICATOR TYPE)

專利在案(PATENT REGISTERED)

ZIP-50

ZIP-50A

ZOV-50 型

ZOV-50

● 特 點：

1.在電腦銑床/車床上設定刀長用。
2.設計高度:50.00 ± 0.005mm。
3.量側面大，操作容易。
4.彈簧力較小，可避面小銑刀或鑽頭斷裂。
5.用研磨過的平行板即可簡單設定。
6.ZIP-50A:平行精度及各方面使用靈敏、精度更好。

FEATURES

1.For setting tool length on machining centers / lathe centers.
2.Setting hight: 50.00 ± 0.005mm
3.Large measuring surface and easy to operate.
4.Low spring force to avoid breakage of small end mill and drill.
5.Easy to be calibrated by a ground parallel or gauge block.
6.Better parallelism, sensitivity, and precision for use.

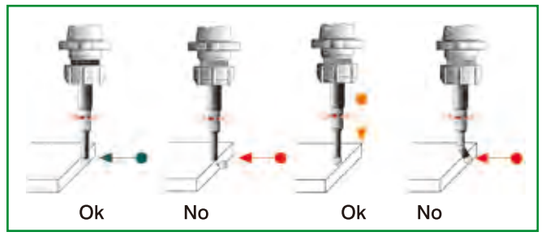
單位/Unit:mm

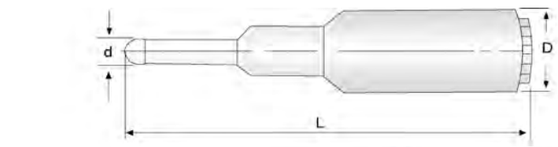
ORDER NO.	TYPE	HEIGHT	G.W. WEIGHT kgs	包 裝 尺 寸 L x W x H
08420551	ZIP-50	$50^{+0.008}_{-0}$	1.08kgs	110 x 100 x 80
08420552	ZOV-50	$50^{+0.008}_{-0}$	1.66kgs	180 x 100 x 70
08420553	ZIP-50A	$50^{+0.005}_{-0}$	1.22kgs	110 x 100 x 80
08420554	ZIP-100	$100^{+0.005}_{-0}$	1.56kgs	160 x 120 x 76

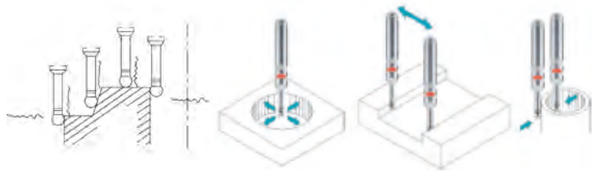
光電式尋邊器

OPTICAL EDGE FINDER

SOE 型 OPTICAL EDGE FINDER (TOUCH POINT SENSOR)







- Not necessary to rotate while measuring.
- Quickly locate work edges.
- Save time to find positions, for milling machine, jig borers, and other machine tools.
- Accuracy 0.005mm

IS A HIGH SENSIBLE POSITION MEASURING

- Uses dry batteries to light the red lamp.
- The scope of application includes edge suface,inside and outside diameters and high efficiency.
- There is a safety spring puller which puts the ball precisely back to the positing when ball breaks away from ball seat.

Battery type:
Um5#, 1.5V x 2pcs (SOE-20L, 32L)
Um5#, 23A x 12V x 1pcs (SOE-20S, 32 / 20LB)

● 特 點：

1.不需迴轉測量。
2.精確度0.005m/m。
3.附2枚UM5#,1.5V鹼性乾電池。(20L,32L)
(32 / 20LB.20S附1枚UM5#,12V鹼性乾電池)

請注意/光電式尋邊器不適合迴轉使用
Notice to use of optical edge finder, that is not suitably used for rotary.

單位/Unit:mm

ORDER NO.	TYPE	柄徑.D	長度.L	測頭.d	G.W. WEIGHT kgs	包裝尺寸 L x W x H
08420120	SOE-20S	20Ø	120	10Ø	0.3	200 x 72 x45
08420020	SOE-20L	20Ø	158	10Ø	0.36	200 x 72 x45
08420021	SOE-20LB	20Ø	158	10Ø	0.36	200 x 72 x45
08420032	SOE-32L	32Ø	158	10Ø	0.64	200 x 72 x45
08420033	SOE-32LB	32Ø	158	10Ø	0.64	200 x 72 x45

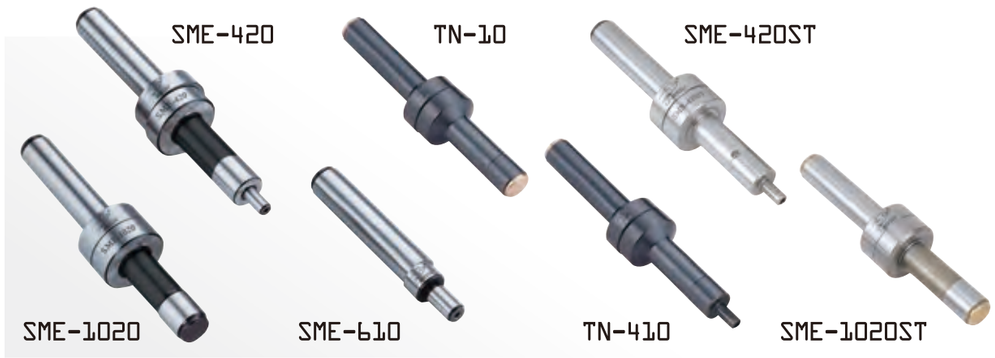
偏心式尋邊器

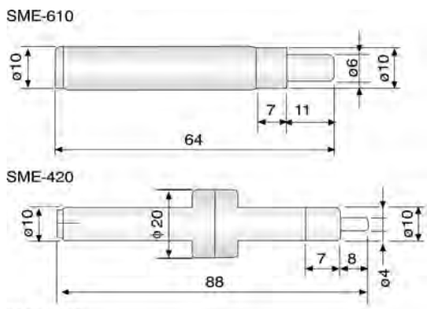
MACHANICAL EDGE FINDER

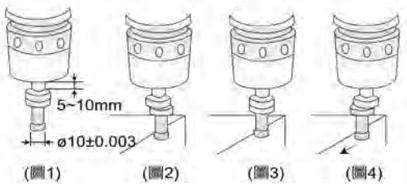
陶瓷尋邊器

CERAMIC EDGE FINDER

SME 型 MACHANICAL EDGE FINDER







● 特 點：

- Ø10mm的直柄可安裝於切削夾頭或鑽夾頭上(參考圖1)
- 請以手指輕壓測定子的側邊，使其偏心0.5mm(參考圖2)
- 使其以400-600rpm的速度轉動。
- 如(圖2)所示使測定子與加工物的端面相接觸，一點一點地碰觸移動，就會變成如(圖3)所示，測定子不再振動，宛如靜止的狀態接著，以更細微的進給來碰觸移動的話，測定子就會如(圖4)所示，開始朝一定的方向滑動。這個滑動起點就是所要尋求的基準位置。
- 加工物本身的端面位置，就是加上測定子半徑5mm的座標位置

FEATURES

1. Ø10mm straight shank can be installed directly on milling chuck or drilling chuck. (refer to Fig.1).
2. Press slightly on edge of sensor unit with hands to keep eccentricity at 0.5mm (refer to Fig. 2).
3. Rotate with speed of 400-600 rpm.
4. Make sensor unit contact to the end face of workpiece shown as Fig. 2. Then, contact and move gradually, it is going to turn into Fig. 3 and sensor unit keeps still. Furthermore, if fine feed is started, then sensor unit will move according to a specific direction. The start point of this movement is the basis position to look for.
5. The position of end face of the workpiece is the coordinate position of sensor unit plus radius 5mm.

Steel:Cr-Mo, Alloy Steel (鉻鉬鋼) HRC:58º　　單位/Unit:mm

ORDER NO.	TYPE	G.W. weight kgs	包裝尺寸 L x W x H
08400610	SME-610	0.04	95 x 26 x 26
08400420	SME-420	0.07	95 x 26 x 26
08401020	SME-1020	0.07	95 x 26 x 26

Material by Stainless Steel(不鏽鋼) HRC:60º　　單位/Unit:mm

ORDER NO.	TYPE	G.W. weight kgs	包裝尺寸 L x W x H
08410420	SME-420ST	0.07	95 x 26 x 26
08411020	SME-1020ST	0.07	95 x 26 x 26

TN型:具有不倒磁之特性，硬度HV 2500º
TN Type: The mep type is nonmagnetic HV 2500º　　單位/Unit:mm

ORDER NO.	TYPE	G.W. weight kgs	包裝尺寸 L x W x H
08401100	TN-10	0.08	120 x 45 x 25
08401410	TN-410	0.08	120 x 45 x 25

● 注意事項

1.請勿使用其彎曲或勉強拖拉。　2.勿使滑動面沾附異物飛塵。
3.使用時，轉速請勿超過600rpm。4.不適何在橫式的機器上使用。

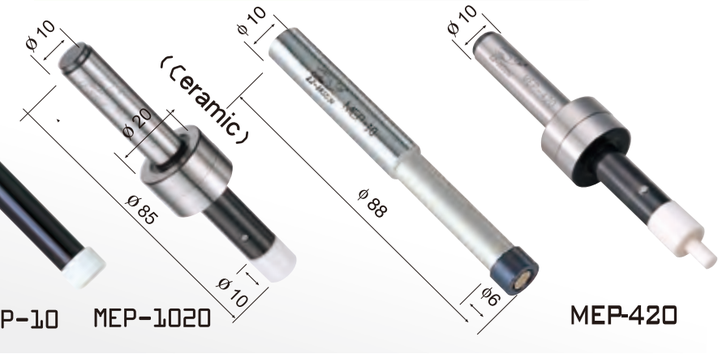
Cautions

1. Do not use the bend part or to drag or pull with force.
2. Never let impurities or foreign things stain on the slide face.
3. While using, be sure the speed not over 600rpm.
4. Never apply it on machine of horizontal type.

CER 型 EDGE FINDER(Ceramic)

CER-10
精度(ACCURACY):±0.002

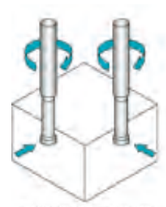
MEP 型 CERAMIC EDGE FINDER



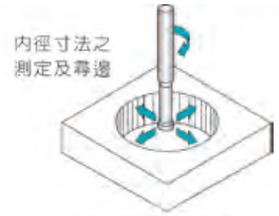
(1) 先把巡邊器回轉後，慢慢靠近測定物。
Turn the Edge Sensor facing to workpiece, then approach to workpiece slowly.

(2) 測定端子的振動到停下來時徐徐移動出去。
Once the sensor touches the workpiece, the sensor block moves backwards.

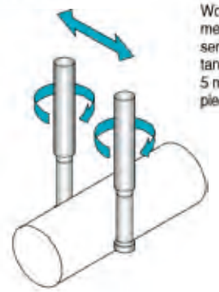
(3) 再細微的傳出時，急速的偏心的時點，就是測定值。移送測定端子(10m/m)的半徑5m/m時主軸與加工物之端面就一致。
Workpiece position can be calculated by measuring the backward distance of the sensor block. Assuming the moving distance is 10 mm., the spindle center line is in 5 mm position.Move the senor out of workpiece along with the workpiece edge.

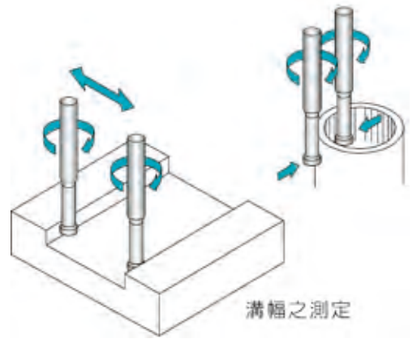


基準位置之設置
set up the standard position



內徑寸法之測定及尋邊
measure the internal diameter





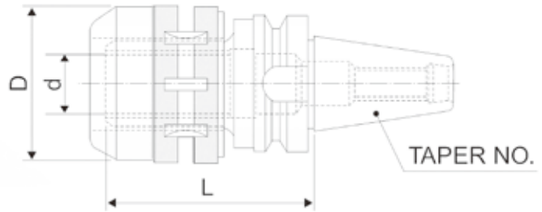
溝幅之測定

※MEP 型：具有不導磁之特性，前端使用全陶瓷之材質
※MEP TYPE: The mep type is nonmagnetic, and the front tip wholly made of ceramic.

Ceramic[陶瓷]　**HV:1350º**　　單位/Unit:mm

ORDER NO.	TYPE	G.W. weight kgs		包裝尺寸 L x W x H
08420010	MEP-10	0.06kgs		120 x 45 x 25
ORDER NO.	TYPE	外徑 Shank Dia.	全長 Length	測定子 Probe Dia.
08420011	CER-10	10	84	Ø10 X 15L
08420012	MEP-1020	10	85	Ø10 X 10L
08420013	MEP-420	10/4		Ø 4 X 10L

BT 型 銑夾頭 MILLING CHUCK



銑夾頭用作：

- 粗切削或"斷屑"之操作
- 銑夾頭以"360°"抓緊刀具，能延長刀具壽命
- 偏心度在0.005至0.01mm之間，能延長刀具壽命及提高精準度

Use a milling chuck for :

- Rough milling or "hogging" operations.
- Improved tool life over regular end-mill holders "360°" gripping contact.
- 0.005mm-0.01mm TIR for maximum tool life and accuracy.

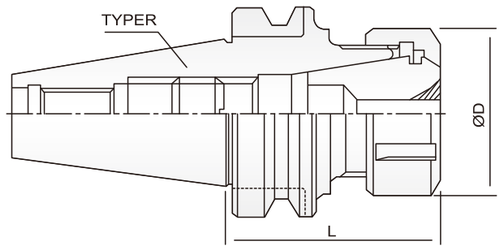
單位/Unit:mm

柄型號/TAPER NO.	d	D	L	型 號/TYPE
BT/NT30	20	54	75	C20
BT/NT40	20	54	105	C20
BT/NT40	32	72	105	C32
BT/NT50	32	72	105	C32
BT/NT50	42	92	115	C42

ER彈性筒夾刀桿

ER SPRING COLLET CHUCK SYSTEM

ER 型



單位/Unit:mm

規 格/PART NO.	TAPER	COLLET	ØD	L
BT30-ER11-60	BT30	ER11	19	60
-ER11-100	BT30	ER11	19	100
-ER16-60	BT30	ER16	28	60
-ER16-100	BT30	ER16	28	100
-ER20-60	BT30	ER20	34	60
-ER20-100	BT30	ER20	34	100
-ER25-60	BT30	ER25	42	60
-ER32-60	BT30	ER32	50	60
-ER40-70	BT30	ER40	63	70
BT40-ER11-70	BT40	ER11	19	70
-ER11-100	BT40	ER11	19	100
-ER16-70	BT40	ER16	28	70
-ER16-100	BT40	ER16	28	100
-ER16-150	BT40	ER16	28	150
-ER20-70	BT40	ER20	34	70
-ER20-100	BT40	ER20	34	100
-ER20-150	BT40	ER20	34	150
-ER25-70	BT40	ER25	42	70

規 格/PART NO.	TAPER	COLLET	ØD	L
-ER25-100	BT40	ER25	42	100
-ER25-150	BT40	ER25	42	150
-ER32-70	BT40	ER32	50	7 0
-ER32-100	BT40	ER32	50	100
-ER32-150	BT40	ER32	50	150
-ER40-80	BT40	ER40	63	8 0
BT50-ER16-100	BT50	ER16	28	100
-ER16-150	BT50	ER16	28	150
-ER20-100	BT50	ER20	34	100
-ER20-150	BT50	ER20	34	150
-ER25-100	BT50	ER25	42	100
-ER25-150	BT50	ER25	42	150
-ER32-100	BT50	ER32	50	100
-ER32-150	BT50	ER32	50	150
-ER32-200	BT50	ER32	50	200
-ER40-100	BT50	ER40	63	100
-ER40-150	BT50	ER40	63	150
-ER40-200	BT50	ER40	63	200

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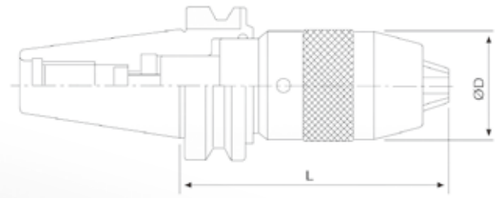
KPU.JTA鑽夾刀桿

KPU CNC DRILL CHUCK

KPU 型

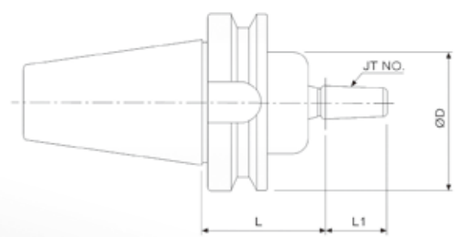


單位/Unit:mm

規 格/PART NO.	ØD	L
BT30-KPU08-80	37	80
-KPU13-100	50	100
BT40-KPU08-85	37	85
-KPU13-110	50	110
-KPU16-120	58	120

規 格/PART NO.	ØD	L
BT50-KPU08-95	37	95
-KPU13-120	50	120
-KPU13-180	50	180
-KPU16-130	58	130
-KPU16-180	58	180

JTA 型 CNC DRILL CHUCK



單位/Unit:mm

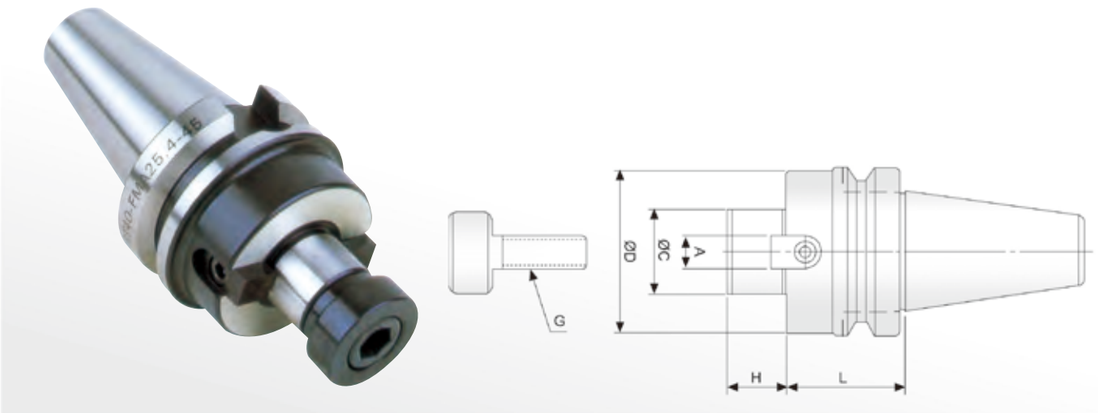
規 格 PART NO.	JAT夾頭 JAT DRLL CHUCK	TAPER	ØD	L	L1
BT40-JTA1-045	JTA1	1/12.9718	30	45	17.462
-JTA2-045	JAT2	1/12.2624	30	45	19.844
-JTA6-045	JTA6	1/19.2641	30	45	26.194
-JTA6-090	JTA6	1/19.2641	30	90	26.194

規 格 PART NO.	JAT夾頭 JAT DRLL CHUCK	TAPER	ØD	L	L1
BT50-JTA1-045	JTA1	1/12.9718	30	45	17.462
-JTA2-045	JTA2	1/12.2624	30	45	19.844
-JTA6-045	JTA6	1/19.2641	30	45	26.194
-JTA6-105	JTA6	1/19.2641	30	105	26.194

FMA.FMB.FMC面銑刀桿

FACE MILL HOLDER

FMA.FMB.FMC 型



單位/Unit:mm

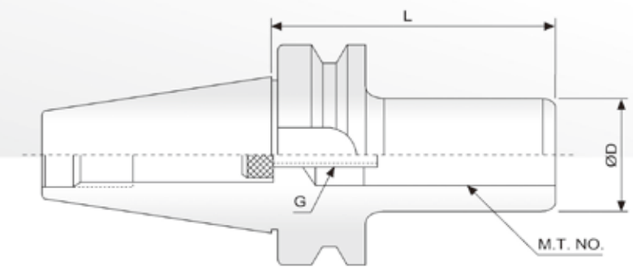
規 格/PART NO.	ØC	ØD	L	H	A	G
BT30-FMA25.4-50	25.4	50	50	20	9.5	M12x1.75P
BT40-FMA25.4-45	25.4	50	45	20	9.5	M12x1.75P
-FMA25.4-90	25.4	50	90	20	9.5	M12x1.75P
-FMA31.75-45	31.75	60	45	22	12.7	M16x2.0P
-FMA31.75-90	31.75	60	90	22	12.7	M16x2.0P
-FMA38.1-60	38.1	74	60	25	15.9	M20x2.5P
BT50-FMA25.4-45	25.4	62	45	20	9.5	M12x1.75P
-FMA25.4-75	25.4	50	75	20	9.5	M12x1.75P
-FMA25.4-105	25.4	50	105	20	9.5	M12x1.75P
-FMA25.4-150	25.4	50	150	20	9.5	M12x1.75P
-FMA31.75-45	31.75	70	45	22	12.7	M16x2.0P
-FMA31.75-75	31.75	60	75	22	12.7	M16x2.0P
-FMA31.75-105	31.75	60	105	22	12.7	M16x2.0P
-FMA31.75-150	31.75	60	150	22	12.7	M16x2.0P
-FMA38.1-45	38.1	80	45	25	15.9	M20x2.5P
-FMA38.1-75	38.1	80	75	25	15.9	M20x2.5P
-FMA50.8-45	50.8	100	45	25	19.05	M24x3.0P
-FMA50.8-75	50.8	100	75	25	19.05	M24x3.0P
-FMA47.625-75	47.625	128.57	75	18	25.4	M24x3.0P
BT30-FMB22-45	22	48	45	18	10	M10x1.5P
-FMB27-45	27	60	45	20	12	M12x1.75P
BT40-FMB22-45	22	48	45	18	10	M10x1.5P
-FMB22-90	22	48	90	18	10	M10x1.5P
-FMB27-45	27	60	45	20	12	M12x1.75P
-FMB27-90	27	60	90	20	12	M12x1.75P
-FMB32-45	32	62	45	22	14	M16x2.0P
BT40-FMB40-60	40	85	60	26	16	M20x2.5P

規 格/PART NO.	ØC	ØD	L	H	A	G
BT50-FMB22-45	22	60	45	18	10	M10x1.5P
-FMB22-75	22	48	75	18	10	M10x1.5P
-FMB22-105	22	48	105	18	10	M10x1.5P
-FMB22-150	22	48	150	18	10	M10x1.5P
-FMB27-45	27	70	45	20	12	M12x1.75P
-FMB27-75	27	60	75	20	12	M12x1.75P
-FMB27-105	27	60	105	20	12	M12x1.75P
-FMB27-150	27	60	150	20	12	M12x1.75P
-FMB32-45	32	75	45	22	14	M16x2.0P
-FMB32-75	32	80	75	22	14	M16x2.0P
-FMB32-105	32	80	105	22	14	M16x2.0P
-FMB32-150	32	80	150	22	14	M16x2.0P
-FMB40-75	40	85	75	26	16	M20x2.5P
BT30-FMC22-45	22	48	45	18	10	M10x1.5P
BT40-FMC22-45	22	48	45	18	10	M10x1.5P
-FMC22-90	22	48	90	18	10	M10x1.5P
-FMC27-45	27	60	45	20	12	M12x1.75P
-FMC27-90	27	60	90	20	12	M12x1.75P
-FMC32-45	32	62	45	22	14	M16x2.0P
BT50-FMC22-45	22	60	45	18	10	M10x1.5P
-FMC22-105	22	48	105	18	10	M10x1.5P
-FMC22-150	22	48	150	18	10	M10x1.5P
-FMC27-45	27	70	45	20	12	M12x1.75P
-FMC27-105	27	60	105	20	12	M12x1.75P
-FMC27-150	27	60	150	20	12	M12x1.75P
-FMC32-45	32	75	45	22	14	M16x2.0P
-FMC32-105	32	80	105	22	14	M16x2.0P

MTA.MTB莫氏錐度刀桿

MORSE TAPER HOLDER

MTA.MTB 型



單位/Unit:mm

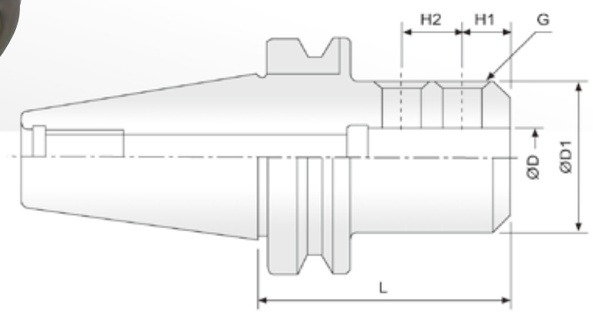
規 格/PART NO.	M.T. NO.	ØD	L	G
BT30-MTA1-45	MTA1	25	45	
-MTA2-60	MTA2	32	60	
BT40-MTA1-50	MTA1	25	50	
-MTA1-120	MTA1	25	120	
-MTA2-50	MTA2	32	50	
-MTA2-120	MTA2	32	120	
-MTA3-75	MTA3	40	75	
-MTA3-135	MTA3	40	135	
-MTA4-95	MTA4	48	95	
-MTA4-165	MTA4	48	165	
BT50-MTA1-45	MTA1	25	45	
-MTA1-120	MTA1	25	120	
-MTA2-50	MTA2	32	50	
-MTA2-135	MTA2	32	135	
-MTA3-65	MTA3	40	65	

規 格/PART NO.	M.T. NO.	ØD	L	G
BT50-MTA3-150	MTA3	40	150	
-MTA4-75	MTA4	48	75	
-MTA4-180	MTA4	48	180	
-MTA5-105	MTA5	63	105	
BT30-MTB1-45	MTB1	25	45	M6
-MTB2-60	MTB2	32	60	M10
BT40-MTB1-45	MTB1	25	45	M6
-MTB2-45	MTB2	32	45	M10
-MTB3-75	MTB3	40	75	M12
-MTB4-75	MTB4	48	75	M16
BT50-MTB1-45	MTB1	25	45	M6
-MTB2-45	MTB2	32	45	M10
-MTB3-60	MTB3	40	60	M12
-MTB4-75	MTB4	48	75	M16
-MTB5-120	MTB5	63	120	M20

SLE側固式端銑刀桿

SIDE LOCK END MILL HOLDER

SLE 型



單位/Unit:mm

規 格/PART NO.	ØD	ØD1	L	L1	H1	H2	G
BT30--SLE8 -60	8	28	60	35	14	12	M8x1.25
-SLE10-60	10	35	60	40	15	14	M8x1.25
-SLE12-60	12	42	60	50	20	16	M12x1.5
-SLE16-75	16	48	75	60	20	18	M12x1.5
-SLE20-75	20	52	75	70	23	19	M12x1.5
BT40-SLE8 -75	8	28	75	35	14	12	M8x1.25
-SLE10-75	10	35	75	40	15	14	M8x1.25
-SLE12-75	12	42	75	50	20	16	M12x1.5
-SLE14-75	14	44	75	50	20	16	M12x1.5
-SLE16-75	16	48	75	60	20	18	M12x1.5
-SLE18-75	18	50	75	60	20	18	M12x1.5
-SLE20-90	20	52	90	70	23	19	M12x1.5
-SLE25-90	25	62	90	80	24	25	M18x1.5
-SLE32-90	32	63	90	80	24	28	M20x1.5
-SLE40-105	40	79	105	80	24	28	M20x1.5
-SLE42-105	42	79	105	80	24	28	M20x1.5

規 格/PART NO.	ØD	ØD1	L	L1	H1	H2	G
BT50-SLE8 -90	8	28	90	35	14	12	M8x1.25
-SLE10-90	10	35	90	40	15	14	M8x1.25
-SLE12-90	12	42	90	50	20	16	M12x1.5
-SLE14-90	14	44	90	55	20	16	M12x1.5
-SLE16-90	16	48	90	60	20	18	M12x1.5
-SLE16-150	16	48	150	60	20	18	M12x1.5
-SLE18-90	18	50	90	60	20	18	M12x1.5
-SLE20-105	20	52	105	70	23	19	M12x1.5
-SLE20-150	20	52	150	70	23	19	M12x1.5
-SLE25-105	25	65	105	80	24	25	M18x1.5
-SLE25-150	25	65	150	80	24	25	M18x1.5
-SLE32-105	32	72	105	80	24	28	M20x1.5
-SLE32-150	32	72	150	80	24	28	M20x1.5
-SLE40-120	40	90	120	90	30	32	M20x1.5
-SLE42-120	42	90	120	90	30	32	M20x1.5
-SLE50.8-105	20.8	95	105	80	35	25	M20x1.5

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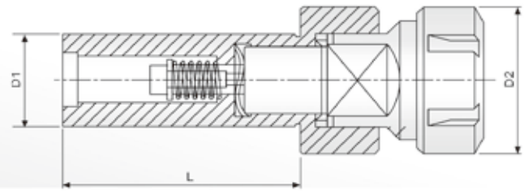
直柄WER伸縮攻牙刀桿

STRAIGHT SHANK WER TAPPING ATTACHMENT

WER 型



■直柄側鎖式 • Straight Shank Side-Lock Type

單位/Unit:mm

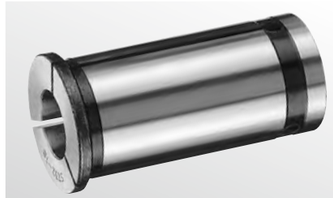
規 格/PART NO.	D1	L	D2	筒夾類型/COOLET TYPE	攻牙能力/TAPPING CAPACITY
SL20-WER16-80	20	80	28	ER16	M3-M10
SL20-WER20-80	20	80	34	ER20	M3-M13
SL25-WER16-80	25	80	28	ER16	M3-M10
SL25-WER20-80	25	80	34	ER20	M3-M13
SL25-WER25-80	25	80	42	ER25	M3-M16
SL32-WER25-80	32	80	42	ER25	M3-M16
SL32-WER32-80	32	80	50	ER32	M3-M20

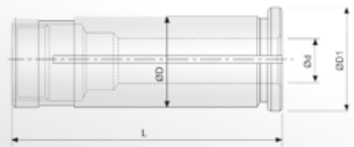
C直柄筒夾

C-20, 25, 32, 42 STRAIGHT COLLETS

C 型

規 格/PART NO.	ØD	ØD1	L
C20	20	23.5	60
C32	32	37.0	70
C42	42	47.0	78





規 格/PART NO.	SIZE/d
C20-6	6
C20-8	8
C20-10	10
C20-12	12
C20-16	16
C25-6	6
C25-8	8
C25-10	10
C25-12	12
C25-16	16
C25-20	20

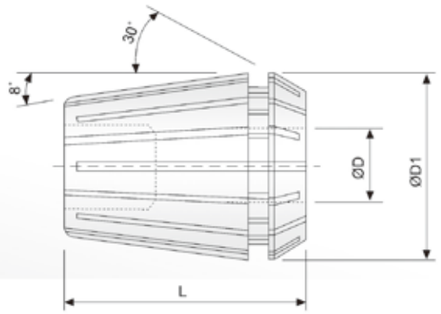
規 格/PART NO.	SIZE/d
C32-6	6
C32-8	8
C32-10	10
C32-12	12
C32-14	14
C32-16	16
C32-20	20
C32-25	25
C32- 1/ 4”	1/ 4”
C32-5/16”	5/16”
C32-3/18”	3/18”
C32- 1/ 2”	1/ 2”
C32- 5/ 8”	5/ 8”
C32- 3/ 4”	3/ 4”
C32- 7/ 8”	7/ 8”
C32-1”	1”

規 格/PART NO.	SIZE/d
C42-6	6
C42-8	8
C42-10	10
C42-12	12
C42-16	16
C42-20	20
C42-25	25
C42-32	32
C42- 1/ 4”	1/ 4”
C42-5/16”	5/16”
C42-3/18”	3/18”
C42- 1/ 2”	1/ 2”
C42- 5/ 8”	5/ 8”
C42- 3/ 4”	3/ 4”
C42- 7/ 8”	7/ 8”
C42-1”	1”
C42-1-1/2”	1-1/2”

ER彈性筒夾

ER SPRING COLLETS

ER 型

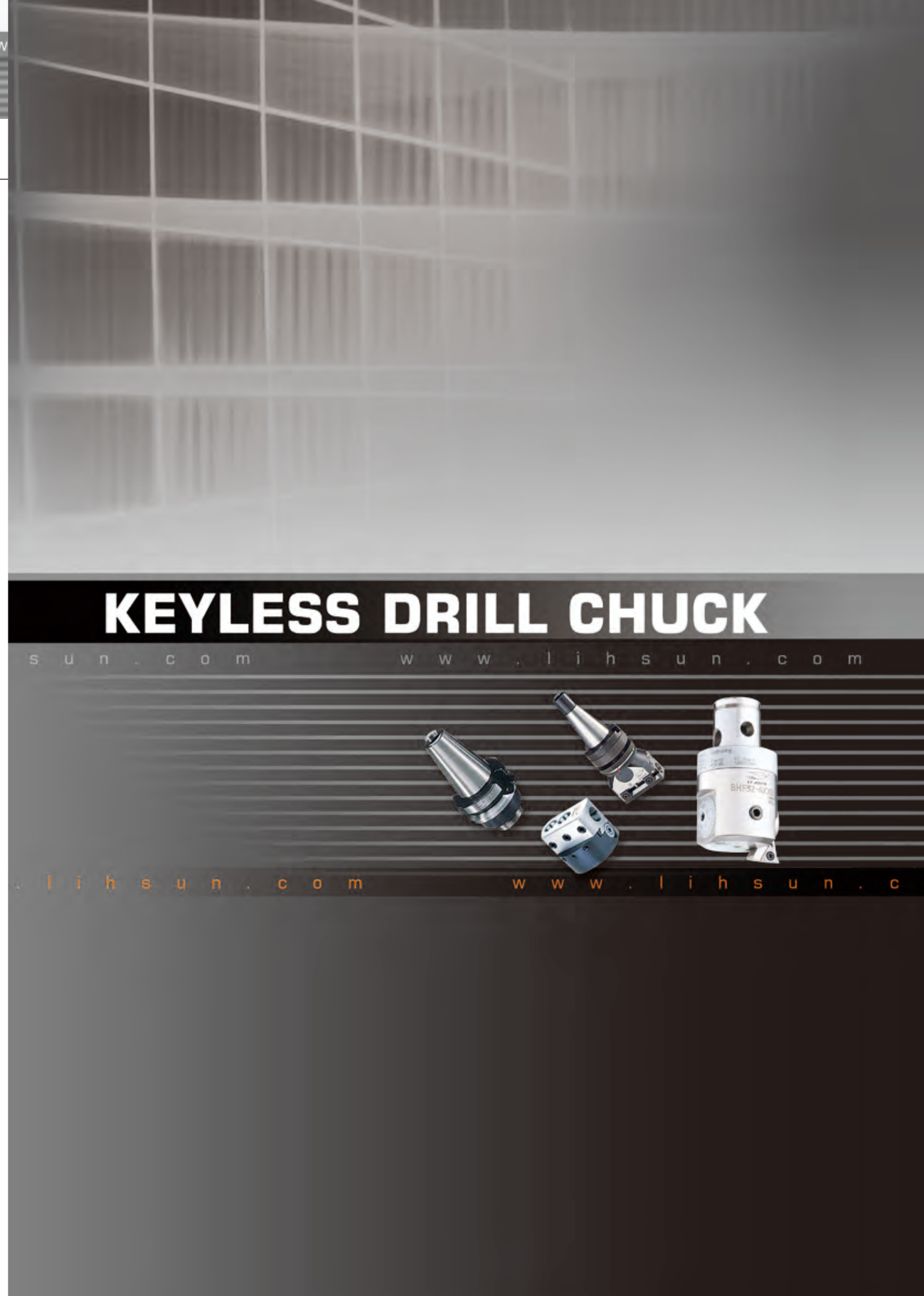


規格/PART NO.	DØ	D1	L
ER11-010	1.0~0.5	11.5	18.0
-015	1.5~1.0	11.5	18.0
-020	2.0~1.5	11.5	18.0
-025	2.5~2.0	11.5	18.0
-030	3.0~2.5	11.5	18.0
-035	3.5~3.0	11.5	18.0
-040	4.0~3.5	11.5	18.0
-045	4.5~4.0	11.5	18.0
-050	5.0~4.5	11.5	18.0
-055	5.5~5.0	11.5	18.0
-060	6.0~5.5	11.5	18.0
-065	6.5~6.0	11.5	18.0
-070	7.0~6.5	11.5	18.0
ER16-010	1.0~0.5	17.0	27.0
-015	1.5~0.5	17.0	27.0
-020	2.0~1.0	17.0	27.0
-025	2.5~1.5	17.0	27.0
-030	3.0~2.0	17.0	27.0
-035	3.5~2.5	17.0	27.0
-040	4.0~3.0	17.0	27.0
-045	4.5~3.5	17.0	27.0
-050	5.0~4.0	17.0	27.0
-055	5.5~4.5	17.0	27.0
-060	6.0~5.0	17.0	27.0
-065	6.5~5.5	17.0	27.0
-070	7.0~6.0	17.0	27.0
-075	7.5~6.5	17.0	27.0
-080	8.0~7.0	17.0	27.0
-085	8.5~7.5	17.0	27.0
-090	9.0~8.0	17.0	27.0
-095	9.5~8.5	17.0	27.0

規格/PART NO.	DØ	D1	L
ER16-100	10.0~9.0	17.0	27.0
ER20-020	2.0~1.0	21.0	31.0
-025	2.5~1.5	21.0	31.0
-030	3.0~2.0	21.0	31.0
-035	3.5~2.5	21.0	31.0
-040	4.0~3.0	21.0	31.0
-045	4.5~3.5	21.0	31.0
-050	5.0~4.0	21.0	31.0
-055	5.5~4.5	21.0	31.0
-060	6.0~5.0	21.0	31.0
-065	6.5~5.5	21.0	31.0
-070	7.0~6.0	21.0	31.0
-075	7.5~6.5	21.0	31.0
-080	8.0~7.0	21.0	31.0
ER20-085	8.5~7.5	21.0	31.0
-090	9.0~8.0	21.0	31.0
-095	9.5~8.5	21.0	31.0
-100	10.0~9.0	21.0	31.0
-105	10.5~9.5	21.0	31.0
-110	11.0~10.0	21.0	31.0
-115	11.5~10.5	21.0	31.0
-120	12.0~11.0	21.0	31.0
-125	12.5~11.5	21.0	31.0
-130	13.0~12.0	21.0	31.0
ER25-020	2.0~1.0	26.0	35.0
-030	3.0~2.0	26.0	35.0
-040	4.0~3.0	26.0	35.0
-050	5.0~4.0	26.0	35.0
-060	6.0~5.0	26.0	35.0
-070	7.0~6.0	26.0	35.0
-080	8.0~7.0	26.0	35.0

規格/PART NO.	DØ	D1	L
ER25-090	9.0~8.0	26.0	35.0
-100	10.0~9.0	26.0	35.0
-110	11.0~10.0	26.0	35.0
-120	12.0~11.0	26.0	35.0
-130	13.0~12.0	26.0	35.0
-140	14.0~13.0	26.0	35.0
-150	15.0~14.0	26.0	35.0
-160	16.0~15.0	26.0	35.0
ER32-030	3.0~2.0	33.0	40.0
-040	4.0~3.0	33.0	40.0
-050	5.0~4.0	33.0	40.0
-060	6.0~5.0	33.0	40.0
-070	7.0~6.0	33.0	40.0
-080	8.0~7.0	33.0	40.0
-090	9.0~8.0	33.0	40.0
-100	10.0~9.0	33.0	40.0
-110	11.0~10.0	33.0	40.0
-120	12.0~11.0	33.0	40.0
-130	13~12.0	33.0	40.0
-140	14.0~13.0	33.0	40.0
-150	15.0~14.0	33.0	40.0
-160	16.0~15.0	33.0	40.0
-170	17.0~16.0	33.0	40.0
-180	18.0~17.0	33.0	40.0
-190	19.0~18.0	33.0	40.0
-200	20.0~19.0	33.0	40.0
ER40-040	4.0~3.0	41.0	46.0
-050	5.0~4.0	41.0	46.0
-060	6.0~5.0	41.0	46.0
-070	7.0~6.0	41.0	46.0
-080	8.0~7.0	41.0	46.0

規格/PART NO.	DØ	D1	L
ER40-090	9.0~8.0	41.0	46.0
-100	10.0~9.0	41.0	46.0
-110	11.0~10.0	41.0	46.0
-120	12.0~11.0	41.0	46.0
-130	13.0~12.0	41.0	46.0
-140	14.0~13.0	41.0	46.0
-150	15.0~14.0	41.0	46.0
-160	16.0~15.0	41.0	46.0
-170	17.0~16.0	41.0	46.0
-180	18.0~17.0	41.0	46.0
-190	19.0~18.0	41.0	46.0
-200	20.0~19.0	41.0	46.0
-210	21.0~20.0	41.0	46.0
-220	22.0~21.0	41.0	46.0
-230	23.0~22.0	41.0	46.0
-240	24.0~23.0	41.0	46.0
-250	25.0~24.0	41.0	46.0
-260	26.0~25.0	41.0	46.0
ER50-140	14.0~12.0	52.0	60.0
-160	16.0~14.0	52.0	60.0
-180	18.0~16.0	52.0	60.0
-200	20.0~18.0	52.0	60.0
-220	22.0~20.0	52.0	60.0
-240	24.0~22.0	52.0	60.0
-260	26.0~24.0	52.0	60.0
-280	28.0~26.0	52.0	60.0
-300	30.0~28.0	52.0	60.0
-320	32.0~30.0	52.0	60.0
-340	34.0~32.0	52.0	60.0



BHF精搪組系列

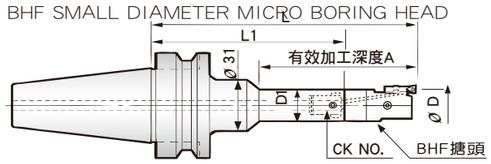
BHF FINE BORING SYSTEMS

BHF 型

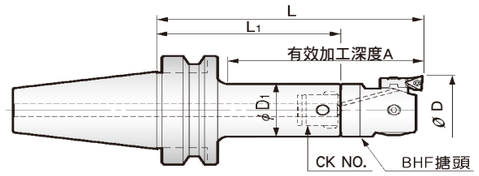
BHF微調精密搪頭

BHF SMALL DIAMETER MICRO BORING HEAD

Fg1



Fg2



單位/Unit:mm

精搪頭 Boring Heads	刀桿規格 Shanks	搪孔範圍 Boring Range	Fg	A	ø D	L
BHF.19	BT30-CK1-070	ø 20 ~ ø 26	2	65	19	105
BHF.24	BT30-CK2-040	ø 25 ~ ø 33	1	50	24	75
	-085			85		115
BHF.31	BT30-CK3-040	ø 32 ~ ø 42	1	50	31	80
	-080			85		115
BHF.39	BT30-CK4-040	ø 41 ~ ø 54	1	60	39	85
	-075			90		120
BHF.50	BT30-CK5-065	ø 53 ~ ø 70	1	90	50	120
BHF.19	BT40-CK1-075	ø 20 ~ ø 26	1	70	19	100
	-120		2	72		150
	-170					200
BHF.24	BT40-CK2-085	ø 25 ~ ø 33	1	83	24	115
	-125		2	88		160
	-170					210
BHF.31	BT40-CK3-095	ø 32 ~ ø 42	1	103	31	135
	-150		2	98		190
	-200					240
BHF.39	BT40-CK4-090	ø 41 ~ ø 54	1	103	39	135
	-145		2			190
	-195					240
BHF.50	BT40-CK5-080	ø 53 ~ ø 70	1	103	50	135
	-135			140		190
	-185			150		240
BHF.64	BT40-CK6-065	ø 68 ~ ø 100	1	103	64	135
	-120			158		190
	-170			208		240
BHF.90	BT40-CK6-065	ø 100 ~ ø 153	1	103	64	135
	-120			158		190
	-170			208		240
BHF.19	BT50-CK1-105	ø 20 ~ ø 26	2	72	19	
	-170					
	-220					
BHF.24	BT50-CK2-115	ø 25 ~ ø 33	1	100	24	
	-175		2			
	-225					
BHF.31	BT50-CK3-125	ø 32 ~ ø 42	1	113	31	
	-200		2	120		
	-240					
BHF.39	BT50-CK4-120	ø 41 ~ ø 54	1	120	39	165
	-195		2	127		240
	-235					280
BHF.50	BT50-CK5-110	ø 53 ~ ø 70	1	120	50	165
	-183			190		240
	-228			230		280
BHF.64	BT50-CK6-095	ø 68 ~ ø 100	1	125	64	165
	-170			200		240
	-210			240		280
BHF.90	BT50-CK6-095	ø 100 ~ ø 153	1	125	64	165
	-170			200		240
	-210			240		280

使用加長型刀把，切削條件需改變，例如：降低切削進給率，減少切削深度等

When using longer shanks please change the cutt ng condition.

CK搪孔刀桿

CK BORING HEAD SHANK (BT)

CK-BT 型

■ 型號說明

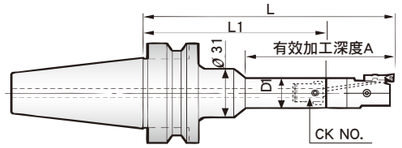
BT30-CK1-105

CK NO

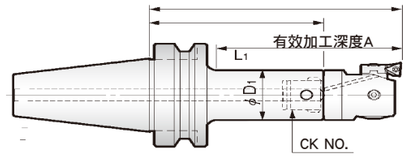
BT推拔柄

BT 推拔柄

BT BORING HEAD SHANK



Fg1



Fg2

單位/Unit:mm

型 號 TYPE	組合內容 刀桿規格 Shanks	組合內容 BHF精搪頭	CK NO.	L	L1	ø D1	加工直徑 ø D	A	Fig.	質量(kg)
BT30-BHF20-105	BT30-CK1-070	BHF 20-36CKB1	1	104.5	72	19	20-26	73	1	
BT30-BHF25-075	BT30-CK2-040	BHF 25-47CKB2	2	75	40	24	25-33	50	2	
BT30-BHF25-120	-085	BHF 25-47CKB2	2	118	80	24	25-33	93	2	
BT30-BHF32-080	BT30-CK3-040	BHF 32-60CKB3	3	80	40	31	32-42	55	2	
BT30-BHF32-120	-080	BHF 32-60CKB3	3	119	75	31	32-42	93	2	
BT30-BHF41-085	BT30-CK4-040	BHF 41-74CKB4	4	85	38	39	41-54	55	2	
BT30-BHF41-120	-075	BHF 41-74CKB4	4	119	73	39	41-54	93	2	
BT30-BHF52-120	BT30-CK5-065	BHF 53-95CKB5	5	120	63	50	53-70	93	2	
BT40-BHF20-105	BT40-CK1-075	BHF 20-36CKB1	1	104.5	72	19	20-36	73	1	
BT40-BHF20-150	-120	BHF 20-36CKB1	1	150	118	19	20-36	120	1	
BT40-BHF20-200	-170	BHF 20-36CKB1	1	200	168	19	20-36	170	1	
BT40-BHF25-120	BT40-CK2-085	BHF 25-47CKB2	2	118	82.5	24	25-33	88	2	
BT40-BHF25-160	-125	BHF 25-47CKB2	2	160	125	24	25-33	130	2	
BT40-BHF25-210	-170	BHF 25-47CKB2	2	210	175	24	25-33	180	2	
BT40-BHF32-135	BT40-CK3-095	BHF 32-60CKB3	3	134	94	31	32-42	103	2	
BT40-BHF32-190	-150	BHF 32-60CKB3	3	190	150	31	32-42	160	2	
BT40-BHF32-240	-200	BHF 32-60CKB3	3	240	200	31	32-42	210	2	
BT40-BHF41-135	BT40-CK4-090	BHF 41-74CKB4	4	135	88	39	41-54	103	2	
BT40-BHF41-190	-145	BHF 41-74CKB4	4	190	143	39	41-54	160	2	
BT40-BHF41-240	-195	BHF 41-74CKB4	4	240	193	39	41-54	210	2	
BT40-BHF53-135	BT40-CK5-080	BHF 53-95CKB5	5	135	78	50	53-70	103	2	
BT40-BHF53-190	-135	BHF 53-95CKB5	5	190	133	50	53-70	160	2	
BT40-BHF53-240	-185	BHF 53-95CKB5	5	240	183	50	53-70	210	2	
BT40-BHF68-135	BT40-CK6-065	BHF 68-150CKB6	6	135	64	64	68-100	103	2	
BT40-BHF68-190	-120	BHF 68-150CKB6	6	190	119	64	68-100	160	2	
BT40-BHF68-240	-170	BHF 68-150CKB6	6	240	169	64	68-100	210	2	
BT40-BHF100-135	-065	BHF 100-203CKB6	6	135	64	64	100-53	103	2	
BT40-BHF100-190	-120	BHF 100-203CKB6	6	190	119	64	100-53	160	2	
BT40-BHF100-240	-170	BHF 100-203CKB6	6	190	169	64	100-53	210	2	
BT50-BHF20-135	BT50-CK1-105	BHF 20-36CKB1	1	134.5	102	19	20-36	-	1	
BT50-BHF20-200	-170	BHF 20-36CKB1	1	200	168	19	20-36	-	1	
BT50-BHF20-250	-220	BHF 20-36CKB1	1	250	218	19	20-36	-	1	
BT50-BHF25-150	BT50-CK2-115	BHF 25-47CKB2	2	148	112.5	24	25-33	-	2	
BT50-BHF25-210	-175	BHF 25-47CKB2	2	210	175	24	25-33	-	2	
BT50-BHF25-260	-225	BHF 25-47CKB2	2	260	225	24	25-33	-	2	
BT50-BHF32-165	BT50-CK3-125	BHF 32-60CKB3	3	164	124	31	32-42	-	2	
BT50-BHF32-240	-200	BHF 32-60CKB3	3	240	200	31	32-42	-	2	
BT50-BHF32-280	-240	BHF 32-60CKB3	3	280	240	31	32-42	-	2	
BT50-BHF41-165	BT50-CK4-120	BHF 41-74CKB4	4	165	118	39	41-54	73	2	
BT50-BHF41-240	-195	BHF 41-74CKB4	4	240	193	39	41-54	122	2	
BT50-BHF41-280	-235	BHF 41-74CKB4	4	280	233	39	41-54	182	2	
BT50-BHF53-165	BT50-CK5-110	BHF 53-95CKB5	5	165	108	50	53-70	122	2	
BT50-BHF53-240	-183	BHF 53-95CKB5	5	240	183	50	53-70	122	2	
BT50-BHF53-285	-228	BHF 53-95CKB5	5	285	228	50	53-70	182	2	
BT50-BHF68-165	BT50-CK6-095	BHF 68-150CKB6	6	165	94	64	68-100	122	2	
BT50-BHF68-240	-170	BHF 68-150CKB6	6	240	169	64	68-100	197	2	
BT50-BHF68-280	-210	BHF 68-150CKB6	6	280	209	64	68-100	222	2	
BT50-BHF100-165	-095	BHF 100-203CKB6	6	165	94	64	100-53	122	2	
BT50-BHF100-240	-170	BHF 100-203CKB6	6	240	169	64	100-53	197	2	
BT50-BHF100-280	-210	BHF 100-203CKB6	6	280	209	64	100-53	237	2	

1.表中L的尺寸是在裝上BHF精搪頭時的參考值。
2.裝上搪頭時刀尖方向與傳動槽方向是同相位。
3.各種刀搪桿標準對應中心內冷。

1. Dimension "L" in the above chart is the reference value for fitting the shank on the BHF boring head.
2. The direction of boring insert must be same as spindle rotation direction.
3. All of the broing head shanks standard specification is made for inner cooling.

CK-SK(DIN6987IA) 型

單位/Unit:mm

DIN69871A 型 號 TYPE	組合內容 刀桿規格 Shanks	組合內容 BHF精搪頭	CK NO.	L	L1	ø D1	加工直徑 ø D	A	Fig.	質量(kg)
SK30-BHF20-100	SK30-CK1-070	BHF 20-36CKB1	1	101.5	69	19	20-26	73	1	
SK30-BHF25-115	SK30-CK2-080	BHF 25-47CKB2	2	115	80	24	25-33	93	2	
SK30-BHF32-115	SK30-CK3-075	BHF 32-60CKB3	3	115	72	31	32-42	93	2	
SK30-BHF41-115	SK30-CK4-070	BHF 41-74CKB4	4	116	65	39	41-54	93	2	
SK30-BHF52-115	SK30-CK5-060	BHF 53-95CKB5	5	116	55	50	53-70	93	2	
SK40-BHF20-100	SK40-CK1-070	BHF 20-36CKB1	1	100	67	19	20-36	73	1	
SK40-BHF25-115	SK40-CK2-080	BHF 25-47CKB2	2	113	78	24	25-33	88	2	
SK40-BHF32-130	SK40-CK3-090	BHF 32-60CKB3	3	129	89	31	32-42	88	2	
SK40-BHF41-130	SK40-CK4-085	BHF 41-74CKB4	4	130	83	39	41-54	103	2	
SK40-BHF53-130	SK40-CK5-075	BHF 53-95CKB5	5	130	73	50	53-70	103	2	
SK40-BHF68-130	SK40-CK6-060	BHF 68-150CKB6	6	130	59	64	68-100	103	2	
SK40-BHF100-130	SK40-CK6-060	BHF 100-203CKB6	6	130	59	64	100-53	103	2	
SK50-BHF20-115	SK50-CK1-085	BHF 20-36CKB1	1	115	83	19	20-26	-	1	
SK50-BHF25-130	SK50-CK2-095	BHF 25-47CKB2	2	133	93	24	25-33	-	2	
SK50-BHF32-145	SK50-CK3-105	BHF 32-60CKB3	3	145	105	31	32-42	-	2	
SK50-BHF41-145	SK50-CK4-100	BHF 41-74CKB4	4	146	99	39	41-54	73	2	
SK50-BHF41-205	SK50-CK4-160	BHF 41-74CKB4	4	206	159	39	41-54	107	2	
SK50-BHF53-145	SK50-CK5-090	BHF 53-95CKB5	5	146	89	50	53-70	122	2	
SK50-BHF53-220	SK50-CK5-165	BHF 53-95CKB5	5	220	164	50	53-70	122	2	
SK50-BHF53-265	SK50-CK5-210	BHF 53-95CKB5	5	266	209	50	53-70	182	2	
SK50-BHF68-145	SK50-CK6-075	BHF 68-150CKB6	6	146	75	64	68-100	122	2	
SK50-BHF68-220	SK50-CK6-150	BHF 68-150CKB6	6	221	150	64	68-100	197	2	
SK50-BHF68-280	SK50-CK6-210	BHF 68-150CKB6	6	281	210	64	68-100	222	2	
SK50-BHF100-145	SK50-CK6-075	BHF 100-203CKB6	6	146	75	64	100-153	122	2	
SK50-BHF100-220	SK50-CK6-150	BHF 100-203CKB6	6	221	150	64	100-153	197	2	
SK50-BHF100-280	SK50-CK6-210	BHF 100-203CKB6	6	281	210	64	100-153	237	2	

注意
BHF搪頭自身允許最高切削速度1200m/min,但實際加工時還與推拔柄的長度、機器及工件的剛性等周邊條件有關。請在容許範圍內選擇最合適的加工條件。

CAUTION
The maximum cutting speed of BHF boring head itself is 1200 m/min., nevertheless, the actual allowable cutting speed and extension length depends on the characteristics of machine and workpiece, please check all related information to set the optimum cutting condition.

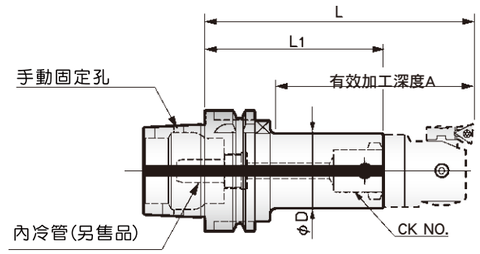
CK-HSK 型

HSK斜度柄
HSK BORING HEAD SHANK

■ 型號說明

HSK-A40-CK1-73

刀柄規格　CK NO.



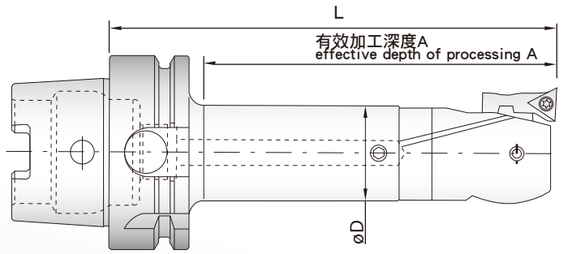
單位/Unit:mm

型 號 TYPE	CK NO.	ø D	A	L	L1	加工直徑 ø	質量(kg)
HSK-A 40-CKB1-73	1	19	73	105	72 5	20-36	0 3
-CKB2-40	2	24	44	75	39 5	25-47	0 2
-85	2	24	89	120	84 5	25-47	0 4
-CKB3-45	3	31	57	85	45	32-60	0 3
-80	3	31	92	120	80	32-60	0 4
-CKB4-53	4	39	-	100	53	41-74	0 4
-73	4	39	-	120	73	41-74	0 5
HSK-A 50-CKB1-73	1	19	65	105	72 5	20-36	0 5
-CKB2-85	2	24	80	117	84 5	25-47	0 6
-CKB3-80	3	31	82	120	80	32-60	0 7
-CKB4-73	4	39	76	120	73	41-74	0 8
-CKB5-83	5	50	-	140	83	53-95	1
HSK-A 60-CKB1-78	1	19	73	110	77 5	20-36	0 9
-CKB2-90	2	24	83	125	89 5	25-47	1
-CKB3-100	3	31	103	140	100	32-60	1 1
-CKB4-93	4	39	103	140	93	41-74	1 2
-CKB5-83	5	50	105	140	83	53-95	1 3
-CKB6-79	6	64	-	150	79	68-203	1 5
HSK-A 100-CKB1-103	1	19	73	135	102 5	20-36	2 5
-CKB2-115	2	24	107	150	114 5	25-47	2 6
-CKB3-125	3	31	122	165	125	32-60	2 8
-CKB4-118	4	39	122	165	118	41-74	3
-178	4	39	182	225	178	41-74	3 5
-CKB5-108	5	50	122	165	108	53-95	3 3
-183	5	50	197	240	183	53-95	4 4
-228	5	50	242	285	228	53-95	5
-CKB6-94	6	64	122	165	94	68-203	3 4
-169	6	64	197	240	169	68-203	5 3
-229	6	64	257	300	229	68-203	6 7

1.表中L及A的尺寸是在裝上BHF精搪頭時的參考值。
2.裝上搪頭時刀尖方向與傳動槽方向同相位。
精搪頭的刀尖朝著有方向槽的一面。
3.標準對應中心內冷。
4.不附帶內冷管，請另外訂購。

1. Dimension "L" "A" in the above chart is the reference value for fitting the shank on the BHF boring head.
2. The direction of boring insert must be same as spindle rotation direction.
3. Standard specification is made for inner cooling.
4. The internal coolant tube is optional.

BHF-HSK 型



單位/Unit:mm

精搪頭 Boring Heads	刀桿規格 Shanks	搪孔範圍 Boring Range	A	ø D	L
BHF-CKB1	HSK50A-CK1-070	ø 20 ~ ø 26	71	19	110
BHF-CKB2	-CK2-080	ø 25 ~ ø 33	84	24	120
BHF-CKB3	-CK3-095	ø 32 ~ ø 42	104	31	135
BHF-CKB4	-CK4-088	ø 41 ~ ø 54	104	39	135
BHF-CKB5	-CK5-078	ø 53 ~ ø 70	104	50	135
BHF-CKB1	HSK63A-CK1-070	ø 20 ~ ø 26	71	19	110
BHF-CKB2	-CK2-080	ø 25 ~ ø 33	84	24	120
BHF-CKB3	-CK3-095	ø 32 ~ ø 42	104	31	135
BHF-CKB4	-CK4-088	ø 41 ~ ø 54	104	39	135
BHF-CKB5	-CK5-078	ø 53 ~ ø 70	104	50	135
BHF-CKB6	-CK6-069	ø 68 ~ ø 100	71	64	140

BHF 刀片座

型 號 TYPE	形狀圖 Shape chart	對應搪頭 Boring	型 號 TYPE	形狀圖 Shape chart	對應搪頭 Boring	型 號 TYPE	形狀圖 Shape chart	對應搪頭 Boring
F1-1	3° 對應刀片TP08	BHF20-36CKB1	F4-1	3° 對應刀片TC11	BHF41-74CKB4	F4-1E	0° 對應刀片TC11	BHF41-74CKB4
F1-2			F4-2			F4-2E		
F1-3			F4-3			F4-3E		
F2-1		BHF25-47CKB2	F5-1		BHF53-95CKB5	F5-1E		BHF53-95CKB5
F2-2			F5-2			F5-2E		
F2-3			F5-3			F5-3E		
F3-1		BHF32-60CKB3	F6-1		BHF68-150CKB6 BHF100-203CKB6	F6-1E		BHF68-150CKB6 BHF100-203CKB6
F3-2			F6-2			F6-2E		
F3-3			F6-3			F6-3E		

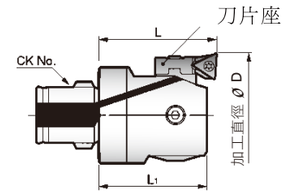
不附帶刀片，請另外訂購。 No insert is included.

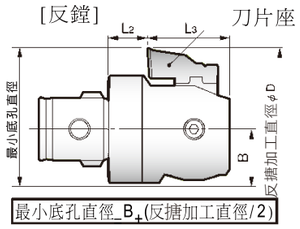
BHF-CKB 型

BHF微調精密搪頭
BHF SMALL DIAMETER MICRO BORING HEAD

■ 型號說明

BHF-20-36-CKB1
- BHF精搪頭
- 加工範圍
- CK NO.





■ 清晰之大刻度盤，每刻度移動量為0.005mm(直徑0.01mm)
■ 副尺每刻度0.001mm(直徑)
■ One division on the scale corresponds to 0.005mm movement,or 0.01 mm diametrical adjustment.
■ High precision vernier setting to 0.001 mm.(dia)

單位/Unit:mm

型 號 TYPE	CK NO.	刀片座	加工直徑 ø D	L	L1	加工直徑 ø D	L2	L3	B	質量(kg)	適合D片
	1	F1-1	20-26	32 5	29 5	-	10 5	19	10	0 07	TP08
BHF20-36CKB1	1	F1-2	25-31	32 5	29 5	30-31	10 5	19	10	0 07	TP08
	1	F1-3	30-36	32 5	29 5	30-36	10 5	19	10	0 07	TP08
	2	F2-1	25-33	35 5	32 5	-	11 5	21	12 5	0 12	TP08
BHF25-47CKB2	2	F2-2	32-40	35 5	32 5	36-40	11 5	21	12 5	0 12	TP08
	2	F2-3	39-47	35 5	32 5	39-47	11 5	21	12 5	0 12	TP08
	3	F3-1	32-42	40	35	-	10	25	16	0 21	TP08
BHF32-60CKB3	3	F3-2	41-51	40	35	46-51	10	25	16	0 21	TP08
	3	F3-3	50-60	40	35	50-60	10	25	16	0 21	TP08
	4	F4-1	41-54	47	43	-	14	29	20	0 4	TC11
BHF41-74CKB4	4	F4-2	50-63	47	43	53-63	14	29	20	0 4	TC11
	4	F4-3	61-74	47	43	61-74	14	29	20	0 4	TC11
	5	F5-1	53-70	57	53	62-70	19	34	25 5	1 1	TC11
BHF53-95CKB5	5	F5-2	65-82	57	53	65-82	19	34	25 5	1 1	TC11
	5	F5-3	78-95	57	53	78-95	19	34	25 5	1 1	TC11
	6	F6-1	68-100	71	67 2	80-100	22	45 2	32 5	1 74	TC11
BHF68-150CKB6	6	F6-2	94-126	71	67 2	94-126	22	45 2	32 5	1 74	TC11
	6	F6-3	118-150	71	67 2	118-150	22	45 2	32 5	1 74	TC11
	6	F6-1	100-153	71	67 2	112-153	22	45 2	45 5	2 46	TC11
BHF100-203CKB6	6	F6-2	126-179	71	67 2	126-179	22	45 2	45 5	2 46	TC11
	6	F6-3	150-203	71	67 2	150-203	22	45 2	45 5	2 46	TC11

1.加工範圍是指TP08刀片半徑R0.2、TC11刀片半徑R0.4時的值。
2.附帶FO-1刀片座。FO-2、FO-3刀片座需要另購。
3.反搪加工時，主軸應反轉。
4.不附帶刀片。

1. The machining ranges means the radius of insert TP08 and TC11, which respectively are R0.2 and R0.4 mm.
2. F0-1 insert seat is standard; which F0-2, F0-3 are optional.
3. Spindle rotation direction must be reversed when performing back-side boring.
4. No insert is included.

CK延長接柄

CK EQUAL DIAMETER EXTENSION ADAPTER

CK 型

■ **型號說明**

CK11-20

延長的長度L

CK1與CK1的連接

■ 連接在推拔柄和搪頭之間，延長加工深度。

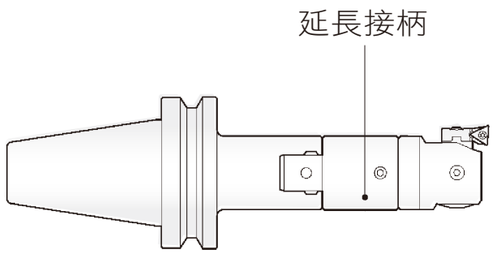
■ 有內冷孔，可進行中心內冷。

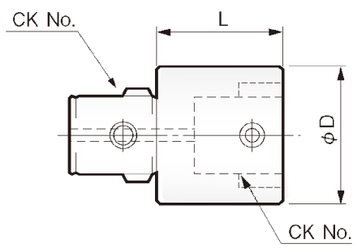
■ 使用延長接柄後長徑比(L/D)增大，有可能影響加工條件。

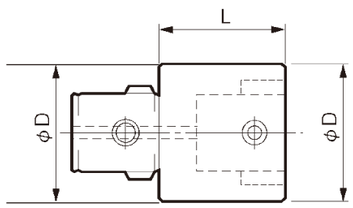
■ Connected between taper shank and boring head, which extends the machining length and depth.

■ With coolant channel inside for coolant through.

■ The Length/Depth ratio gets larger once it is connect, the machining condition will be affected.





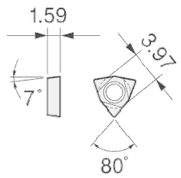


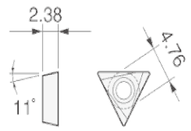
單位/Unit:mm

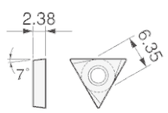
型號 TYPE	øD	L
CK1-020	19	20
-050		50
CK2-030	24	30
-050		50
CK3-030	31	30
-060		60
CK4-045	39	45
-090		90
CK5-050	50	50
-090		90
CK6-060	64	60
-100		100

精搪刀片系列

BORING INSERT SYSTEM







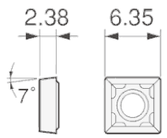
NO.	型　式		被削材	材　質	品種名
1	WCGT020102ELA	02	銅全般copper alloy	T1200A	
2	WCGT02102ELA	02	鑄鐵steel forgings	H1	超硬(K10 相當)
3	WCGT020102FN	02		DA2200	

NO.	型　式		被削材	材　質	品種名
4	TPGP080202EL	0 2	鋼全般steel	T1200A	
5	TPGP080204EL	0 4	鋼全般steel	T1200A	
6	TPGP080202EL	0 2	鋼全般steel	T130A	
7	TPGP080204EL	0 4	鋼全般steel	T130A	
8	TPGP080202EL	0 2	鋼全般steel	T130Z	
9	TPGP080204EL	0 4	鋼全般steel	T130Z	
10	TPGP080202EL	0 2	鋼全般steel	T2000Z	
11	TPGP080204EL	0 4	鋼全般steel	T2000Z	
12	TPGD080202FN	0 2	燒入鋼castings	BN250	CBN
13	TPGD080204FN	0 4	燒入鋼castings	BN250	CBN
14	TPGD080202FN	0 2	燒入鋼castings	BNC200	
15	TPGD080204FN	0 4	燒入鋼castings	BNC200	
16	TPGP080202L	0 2		EH520Z	
17	TPGP080204L	0 4		EH520Z	
18	TPGD080202FN	0 2	鑄鐵steel forgings	H1	超硬(K10 相當)
19	TPGD080202FN	0 4	鑄鐵steel forgings	H1	超硬(K10 相當)
20	TPGD080202FN	0 2		BN500	
21	TPGD080202FN	0 4		BN500	
22	TPGP080202FLA	0 2		H1	超硬(K10 相當)
23	TPGP080204FLA	0 4		H1	超硬(K10 相當)
24	TPGD080202FN	0 2		DA2200	
25	TPGD080204FN	0 4		DA2200	
26	TPGP080201FLA	0 1		A1	超微粒子

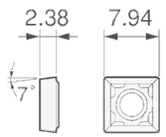
NO.	型　式		被削材	材　質	品種名
27	TCMT1 10204EFM	0 4	鋼全般steel	T1200A	(M級)
28	TCMT1 10208EFM	0 8	鋼全般steel	T1200A	(M級)
29	TCGT1 10202EL	0 2	鋼全般steel	T2000A	(G級)
30	TCGT1 10204EL	0 4	鋼全般steel	T2000A	(G級)
31	TCGT1 10208EL	0 8	鋼全般steel	T2000A	(G級)
32	TCGT1 10202EL	0 2	鋼全般steel	BN250	
33	TCGT1 1020204EL	0 4	鋼全般steel	BN250	
34	TCGT1 10208EL	0 8	鋼全般steel	BN250	
35	TCGT1 10202FN	0 2	燒入鋼castings	BNC200	CBN
36	TCGT1 10204FN	0 4	燒入鋼castings	BNC200	CBN
37	TCGT1 10202FN	0 2	燒入鋼castings	EH520Z	CBN
38	TCGT1 10204FN	0 4	燒入鋼castings	EH520Z	CBN
39	TCGT1 10202L	0 2		EH520Z	超硬
40	TCGT1 10204L	0 4		EH520Z	超硬
41	TCGT1 10202 FN	0 2	鑄鐵steel forgings	H1	超硬
42	TCGT1 10204FN	0 4	鑄鐵steel forgings	H1	超硬
43	TCGT1 10202 FN	0 2		BN500	CBN
44	TCGT1 10204FN	0 4		BN500	CBN
45	TCGT1 10208FN	0 8		BN500	CBN
46	TCGT1 10202FLA	0 2		H1	超硬(K10 相當)
47	TCGT1 10204FLA	0 4		H1	超硬(K10 相當)
48	TCGT1 102028FLA	0 8		H1	超硬(K10 相當)
49	TCGT1 10202FN	0 2		DA2200	
50	TCGT1 10204FN	0 4		DA2200	
51	TCGT1 10208FN	0 8		DA2200	

精搪刀片系列

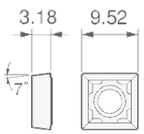
BORING INSERT SYSTEM



NO.	型　式		被削材	材　質	品種名
52	SCMP060204EFM	0 4	鋼全般steel	T1200A	
53	SCMP060204EFM	0 4	鋼全般steel	AC2000	一般用
54	SCMP060204EFM	0 4	鋼全般steel	AC3000	強韌性
55	SCMP060204EFM	0 4	鑄鐵steel forgings	AC700G	鑄鐵用
56	SCGA060204FN	0 4	鑄鐵steel forgings	H1	超硬(K10 相當)
57	SCGP060204FLA	0 4		H1	超硬



NO.	型　式		被削材	材　質	品種名
58	SCMP070204EFM	0 4	鋼全般steel	T1200A	
59	SCMP070204EFM	0 4	鋼全般steel	AC2000	一般用
60	SCMP070204EFM	0 4	鋼全般steel	AC3000	強韌性
61	SCMP070204EFM	0 4	鑄鐵steel forgings	AC700G	鑄鐵用
62	SCGA070204FN	0 4	鑄鐵steel forgings	H1	超硬(K10 相當)
63	SCGP070204FLA	0 4		H1	超硬



NO.	型　式		被削材	材　質	品種名
64	SCGM090304EFM	0 4	鋼全般steel	T1200A	
65	SCGM090308EFM	0 8	鋼全般steel	AC2000	
66	SCMM090304EFM	0 4	鋼全般steel	AC3000	一般用
67	SCMM090308EFM	0 8	鑄鐵steel forgings	AC700G	一般用
68	SCMM090308EFM	0 8	鑄鐵steel forgings	H1	強韌性
69	SCMM090308EFM	0 8		H1	鑄鐵用
70	SCGA090304FN	0 4			超硬(K10 相當)
71	SCGM090308FLA	0 8			超硬

微調精搪孔系統

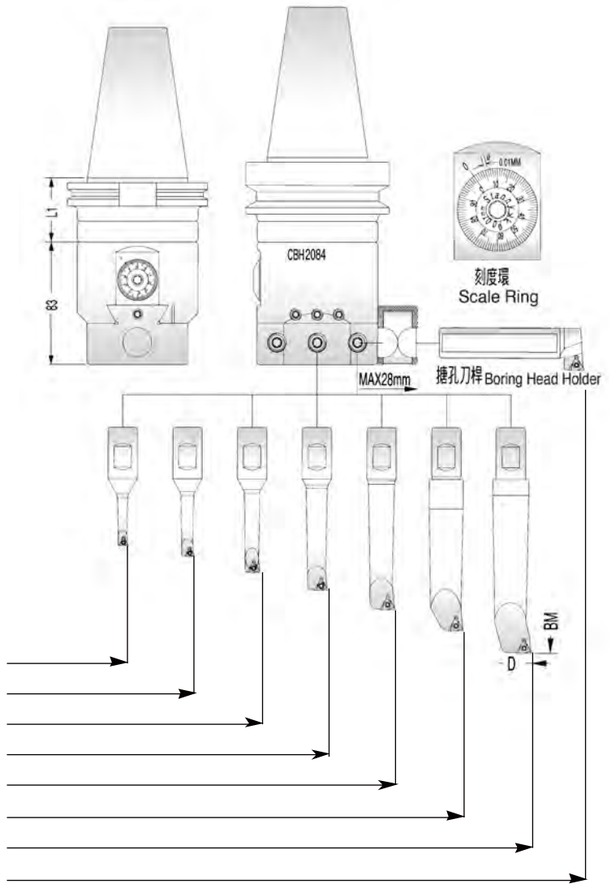
BORING HEAD SETS (CBH)

CBH 型

不附刀片(Without inserts):

型號/MODEL	範圍 D MIN MAX	組合系統－主軸柄規格 H-SYSTEM ARBOR
R8-CBH2084	08-280	R8-UNF7/16-20-CBH2084
NT30-CBH2084	08-280	DIN2080 ISO30M12-CBH2084
NT40-CBH2084	08-280	DIN2080 ISO40M16-CBH-2084
NT50-CBH2084	08-280	DIN2080 ISO50M24-CBH-2084
MT4-CBH2084	08-280	DIN228A MT4M16-CBH2084
MT5-CBH2084	08-280	DIN228A MT5M24-CBH2084
BT40-CBH2084	08-280	MAS403 BT40-CBH2084
BT50-CBH2084	08-280	MAS403 BT50-CBH2084
SK40-CBH2084	08-280	DIN69871A ISO40M16-CBH2084
SK50-CBH2	08-280	DIN69871A ISO50M24-CBH2084

搪孔刀桿 MODE NO:	範圍 D MIN MAX	深度 BM Minensions	搪刀片 NO: insert/radius	螺絲 BOLT NO:	板手 Wrench
BJ2008-32	8 11	32	TBGT060102L	SB-1STR-M2	T6
BJ2010-40	10 13	40	TBGT060104L		
BJ2012-53	12 17	53	TPGH090202L	SB-2TR-M2.5	T8
BJ2016-68	16 21	68	TPGH090204L		
BJ2020-83	20 130	83	TPGH110302L	SB-3TR-M3	T8
BJ2025-96	25 135	96	TPGH110304L		
BJ2030-115	30 140	115			
BJ20-20L	120 280	84+BT bar			



微調精搪孔系統

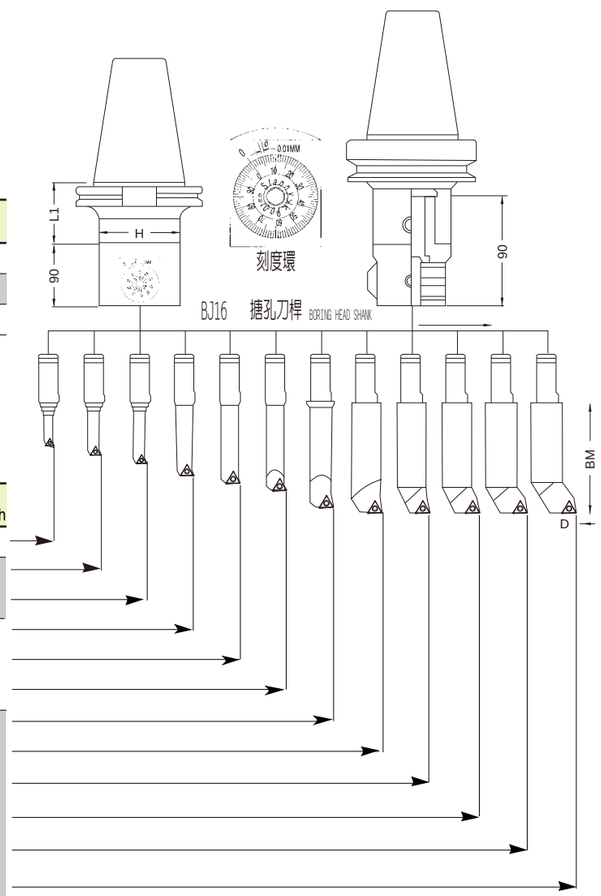
BORING HEAD SETS (CBJ)

CBJ 型

不附刀片(Without inserts):

單位/Unit:mm

型號/MODEL	範圍D MIN MAX	組合系統-主軸柄規格 H-SYSTEM ARBOR		L1
BT40-CBJ16	06-51	H63	BT40-H63-55	55
BT50-CBJ16	06-51	H63	BT50-H63-65	65
BT50-CBJ16	06-51	H63	BT50-H63-85	85

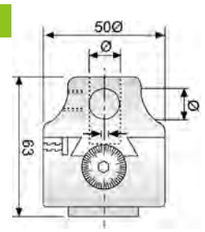


搪孔刀桿 MODE NO:	範圍 D MIN	MAX	深度 BM Minensions	搪刀片 NO: insert/radius	螺絲 BOLT NO:	板手 Wrench
BJ1606-24	6	9	24	TBGT060102L	SB-1STR-M2	T6
BJ1608-32	8	11	32	TBGT060202L	SB-1STR-M2	T6
BJ1610-40	10	13	40	TBGT060104L		
BJ1612-53	12	15	53	TPGH090202L	SB-2TR-M2.5	T8
BJ1614-60	14	17	60	TPGH090204L		
BJ1616-68	16	21	68			
BJ1620-83	20	26	83	TPGH110302L	SB-3TR-M3	T8
BJ1625-90	25	31	90			
BJ1630-90	30	36	90			
BJ1635-90	35	41	90	TPGH110304L		
BJ1640-90	40	46	90			
BJ1645-90	45	51	90			

可調式搪孔頭

BORING HEAD

BCH-2 型

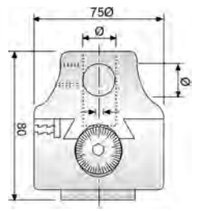


- Here is a small boring head that will be in constant demand in any shop.
- Note the wide base bearing surface that assures maximum rigidity even when the ber holder is in an off-set position. This wide base design is a recent criterion. Innovation that increases bearing surfaces by 50% over the older models.
- A choice of 1/2" double hole bar holder with a 1/2" cross hole is available. The unit has a 7/8-20 threaded back and also features a direct reading dial screw.

單位/Unit:mm

MODEL	ACTUAL SIZE	OVERALL LENGTH	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES	CROSS HOLE DIA	OFF SET	N.W.
BHC-2 inch	2"Dia	2-7/16"	1/2"	5/8"	1/2"	5/8"	0.7 kgs
BHC-2 m/m	50	63	12	15	12	15	0.7 kgs

BCH-3 型

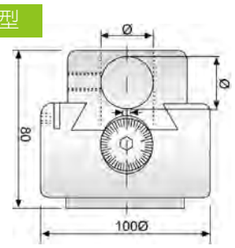


- Here is a sturdy unit of extended boring range, capable of peeling off heavy roughing cuts as well as a tool extreme sensitivity.
- The use of a wide base bar holder, resting securely on the body, eliminates the need for a separate sibe plate. You will note this has now become an integral part of the body.
- The direct reading adjusting screw is ground after hardening and a plainly marked dial face in nonreflecting satin chrome allows easy reading and adjustments of .0005 or less. All criterion Boring
- Heads have threaded backs for use with a variety of shanks. This model takes a 1-1/2"-18 threaded shank.

單位/Unit:mm

MODEL	ACTUAL SIZE	OVERALL LENGTH	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES	CROSS HOLE DIA	OFF SET	N.W.
BHC-3 inch	3"Dia	3-5/32"	3/4"	15/16"	3/4"	1"	2 kgs
BHC-3 m/m	75	80	18	23	18	25	2 kgs

BCH-4 型



- This is bigger boring head which can be put on a large machine to process more as you want.
- The radius of boring hold can reach on about Ø400 m/m long by a boring bar of 160m/m.

單位/Unit:mm

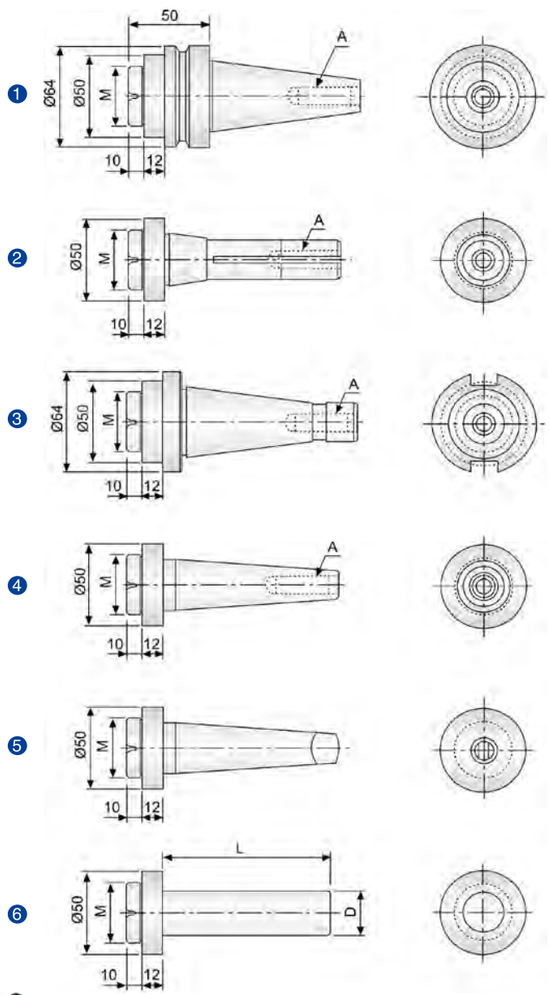
MODEL	ACTUAL SIZE	OVERALL LENGTH	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES	CROSS HOLE DIA	OFF SET	N.W.
BHC-4 inch	4"Dia	3-192"	1"	1-1/4"	1"	1"	4
BHC-4 m/m	100	88	25	32	25	25	4

錐度柄

BORING HEAD SHANK

BT/R8/NT/MT 型

■THE SHANK FOR (BHC-2.BHC-3.BHC-4) BORING HEAD



❶ 單位/Unit:mm

型號/MODEL	SPECIFICATION	N.W.
BT40	M16 x 2.0	1.24 kgs
BT50	M24 x 3.0	3.97 kgs

❷

R8	7/16" x 20UNC	0.60 kgs

❸

NT30	1/2" x 20UNC	0.60 kgs
NT30	M12 x P1.75	0.60 kgs
NT40	5/8" x 11UNC	1.20 kgs
NT40	M16 x P2.0	1.20 kgs
NT50	1" x 8UNC	3.14 kgs
NT50	M24 x P3.0	3.14 kgs

❹

MT2	1/8" x 16UNC	0.40 kgs
MT2	M10 x P1.5	0.40 kgs
MT3	3/8" x 16UNC	0.44 kgs
MT3	1/2" x 13UNC	0.44 kgs
MT3	1/2" x 12UNC	0.44 kgs
MT3	M12 x P1.75	0.44 kgs
MT4	5/8" x 11UNC	0.95 kgs
MT4	M16 x P2.0	0.95 kgs
MT5	1" x 8UNC	1.70 kgs
MT5	M24 x P3.0	1.70 kgs

❺

MT2	TANGED	0.40 kgs
MT3	TANGED	0.50 kgs
MT4	TANGED	0.80 kgs
MT5	TANGED	1.80 kgs

❻ ■STRAIGHT SHANK

型號/MODEL	D	L	N.W.
20Ø	20	60	0.40 kgs
25Ø	25	60	0.50 kgs
32Ø	32	60	0.60 kgs

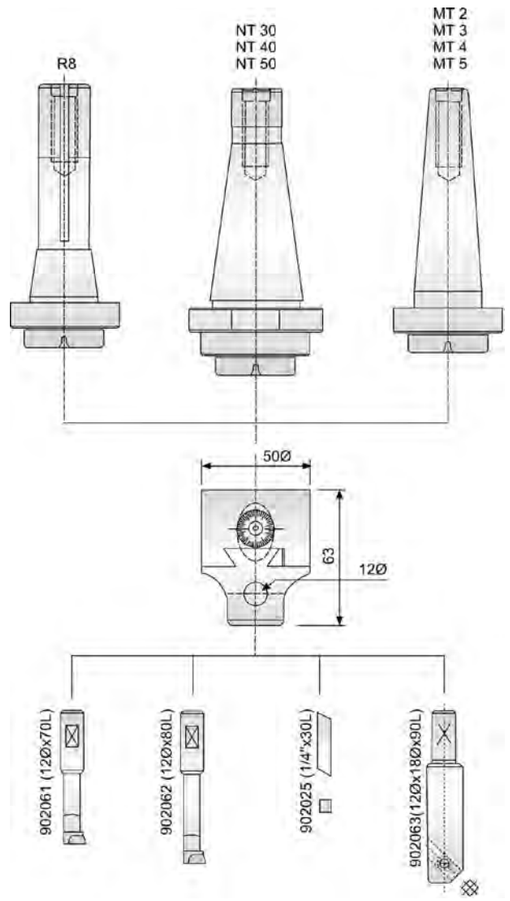
2″C型套裝搪孔頭

BORING HEAD SETS (BHC-2)

BHC-2 型

■工作範圍:
- 最小搪孔直徑10mm
- 最大搪孔直徑150mm
- 最大搪孔深度50mm
- 如附表可更換任何錐柄

■WORK RANGE:
- Mini boring diameter 10mm
- Maxi boring diameter 150mm
- Maxi boring depth 50mm
- All the models in stable can be used



單位/Unit:mm

型號/MODEL	SPECIFICATION	N.W.
BHC-2	Without shank	1.40 kgs
BHC-2-BT40	M16 x P2.0	2.60 kgs
BHC-2-BT50	M24 x P3.0	5.40 kgs
BHC-2-R8	7/16" x 20UNC	2.00 kgs
BHC-2-NT30	1/2" x 12UNC	2.00 kgs
BHC-2-NT30	M12 x P1.75	2.00 kgs
BHC-2-NT40	5/8" x 11UNC	2.60 kgs
BHC-2-NT40	M16 x P2.0	2.60 kgs
BHC-2-NT50	1" x 8UNC	4.50 kgs
BHC-2-NT50	M24 x P3.0	4.50 kgs
BHC-2-MT2	3/8" x 16UNC	1.80 kgs
BHC-2-MT2	M10 x P1.5	1.80 kgs
BHC-2-MT3	3/8" x 16UNC	1.84 kgs
BHC-2-MT3	1/2" x 13UNC	1.84 kgs
BHC-2-MT3	1/2" x 12UNC	1.84 kgs
BHC-2-MT3	M12 x P1.75	1.84 kgs
BHC-2-MT4	5/8" x 11UNC	2.35 kgs
BHC-2-MT4	M16 x P2.0	2.35 kgs
BHC-2-MT5	1" x 8UNC	3.00 kgs
BHC-2-MT5	M24 x P3.0	3.00 kgs
BHC-2-MT2	TANGED	1.80 kgs
BHC-2-MT3	TANGED	1.90 kgs
BHC-2-MT4	TANGED	2.20 kgs
BHC-2-MT5	TANGED	3.20 kgs

■STRAIGHT SHANK

型號/MODEL	D	L	N.W.
BHC-2-20	20	60	1.8 kgs
BHC-2-25	25	60	1.9 kgs
BHC-2-32	32	60	2.0 kgs

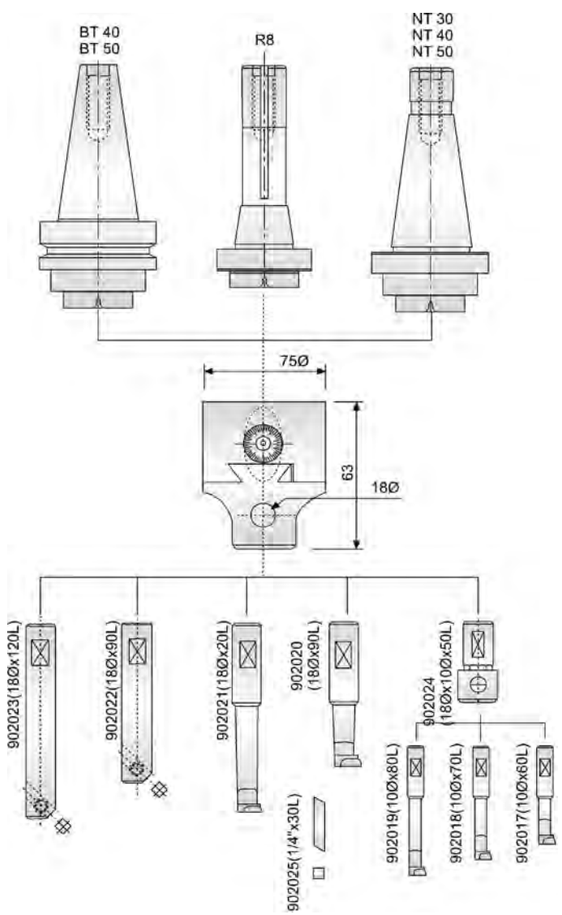
3″C型套裝搪孔頭

BORING HEAD SETS (BHC-3)

BHC-3 型

■工作範圍:
- 最小搪孔直徑10mm
- 最大搪孔直徑200mm
- 最大搪孔深度80mm
- 如附表可更換任何錐柄

■WORK RANGE:
- Mini boring diameter 10mm
- Maxi boring diameter 200mm
- Maxi boring depth 80mm
- All the models in stable can be used



單位/Unit:mm

型號/MODEL	SPECIFICATION	N.W.
BHC-3	Without shank	3.6 kgs
BHC-3-BT40	M16 x P2.0	5.0 kgs
BHC-3-BT50	M24 x P3.0	7.6 kgs
BHC-3-R8	7/16" x 20UNC	4.2 kgs
BHC-3-NT30	1/2" x 12UNC	4.2 kgs
BHC-3-NT30	M12 x P1.75	4.2 kgs
BHC-3-NT40	5/8" x 11UNC	4.8 kgs
BHC-3-NT40	M16 x P2.0	4.8 kgs
BHC-3-NT50	1" x 8UNC	6.8 kgs
BHC-3-NT50	M24 x P3.0	6.8 kgs
BHC-3-MT2	3/8" x 16UNC	4.0 kgs
BHC-3-MT2	M10 x P1.5	4.0 kgs
BHC-3-MT3	3/8" x 16UNC	4.4 kgs
BHC-3-MT3	1/2" x 13UNC	4.4 kgs
BHC-3-MT3	1/2" x 12UNC	4.4 kgs
BHC-3-MT3	M12 x P1.75	4.4 kgs
BHC-3-MT4	5/8" x 11UNC	4.6 kgs
BHC-3-MT4	M16 x P2.0	4.6 kgs
BHC-3-MT5	1" x 8UNC	5.3 kgs
BHC-3-MT5	M24 x P3.0	5.3 kgs
BHC-3-MT2	TANGED	4.0 kgs
BHC-3-MT3	TANGED	4.1 kgs
BHC-3-MT4	TANGED	4.4 kgs
BHC-3-MT5	TANGED	5.4 kgs

■STRAIGHT SHANK

型號/MODEL	D	L	N.W.
BHC-2-20	20	60	4.0 kgs
BHC-2-25	25	60	4.1 kgs
BHC-2-32	32	60	4.2 kgs

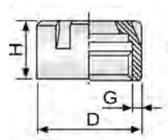
螺帽+扳手+鎖刀座

TOOL HOLDER LOCKING FIXTURES

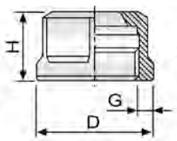
ER螺帽 ER CLAMPING NUTS

單位/Unit:mm

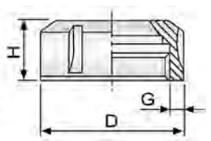
CODE NO.	TYPE	D	H	G
4339-0012	ER11A	19	13	M14x0.75P
4339-0016	ER16A	28	18	M22x1.50P
4339-0020	ER20A	34	21	M25x1.50P
4339-0025	ER25UM	42	20	M32x1.50P
4339-0032	ER32UM	50	23	M40x1.50P
4339-0040	ER40UM	63	25	M50x1.50P



ER11,16,20M



ER11,16,20A



ER25,32,40,50UM

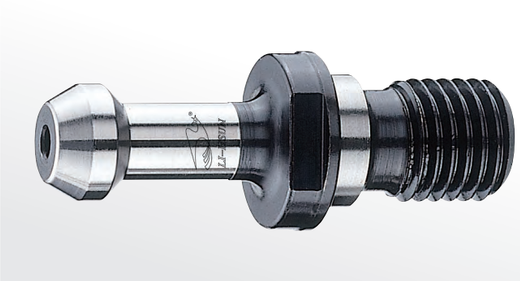
ER扳手 ER SPANNER WRENCH

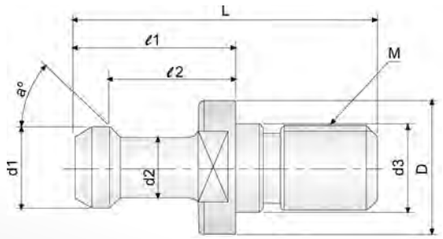
規 格/PART NO.	規 格/PART NO.
ER11	ER25
ER16	ER32
ER20	ER40

鎖刀座 TOOL HOLDER LOCKING FIXTURES

規 格/PART NO.	規 格/DEACRIPTION
BT30	7/24 Taper
BT40	7/24 Taper
BT50	7/24 Taper

BT 標準型 FOR MAS 403

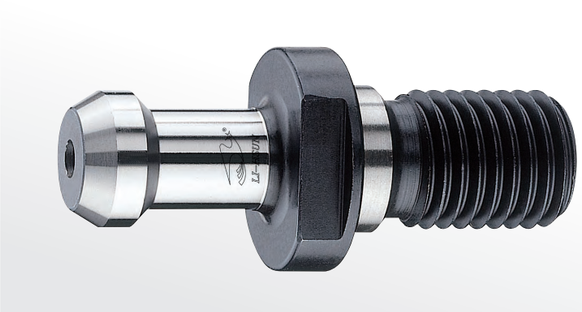


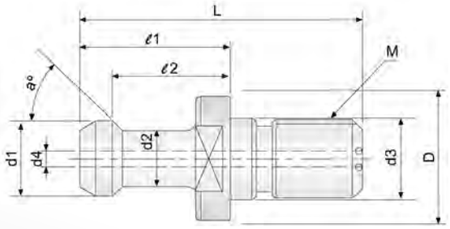


單位/Unit:mm

規 格/TYPE	a°	L	ℓ1	ℓ2	D	d1	d2	d3	M	備註/REMARK
BT30x45°	45	43	23	18	16.5	11	7	12.5	M12	
BT30x60°	60	43	23	18	16.5	11	7	12.5	M12	
BT30x90°	90	43	23	18	16.5	11	7	12.5	M12	
BT40x45°	45	60	35	28	23.0	15	10	17.0	M16	
BT40x60°	60	60	35	28	23.0	15	10	17.0	M16	
BT40x90°	90	60	35	28	23.0	15	10	17.0	M16	
BT50x45°	45	90	45	35	38.0	23	17	25.0	M24	
BT50x60°	60	90	45	35	38.0	23	17	25.0	M24	
BT50x90°	90	90	45	35	38.0	23	17	25.0	M24	

BT 水孔型 FOR MAS 403





單位/Unit:mm

規 格/TYPE	a°	L	ℓ1	ℓ2	D	d1	d2	d3	M	備註/REMARK
BT40x45°W	45	60	35	28	23	15	10	17	M16	
BT40x60°W	60	60	35	28	23	15	10	17	M16	
BT40x90°W	90	60	35	28	23	15	10	17	M16	
BT50x45°W	45	80	45	35	38	23	17	25	M24	
BT50x60°W	60	80	45	35	38	23	17	25	M24	
BT50x90°W	90	80	45	35	38	23	17	25	M24	

拉桿螺栓
PULL STUDS

DIN A 型 FOR DIN 69872A

單位/Unit:mm

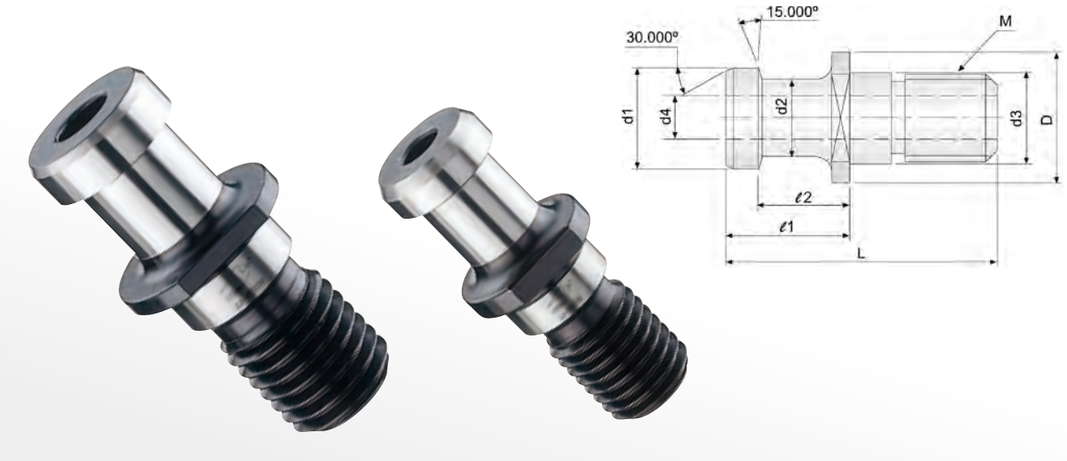
規 格/TYPE	L	ℓ1	ℓ2	D	d1	d2	d3	d4	M	備註/REMARK
DIN30-A	44	24	19	17	13	9	13	-	M12	
DIN40-A	54	26	20	23	19	14	17	7.0	M16	
DIN40-A-L	54	29	23	23	19	14	17	7.0	M16	
DIN50-A	74	34	25	36	28	21	25	11.5	M24	

DIN B 型 FOR DIN 69872B

• 不附油封 Without O-ring
單位/Unit:mm

規 格/TYPE	L	ℓ1	ℓ2	ℓ3	ℓ4	D	d1	d2	d3	d4	M	備註/REMARK
DIN30-B	44	24	19	1.4	-	17	13	9	13	-	M12	
DIN40-B	54	26	20	1.9	27	23	19	14	17	7.0	M16	
DIN50-B	74	34	25	3.0	37	36	28	21	25	11.5	M24	

ISO A 型 FOR ISO / DIS 7388 / 2 / A



單位/Unit:mm

規 格/TYPE	L	ℓ1	ℓ2	D	d1	d2	d3	d4	M	備註/REMARK
ISO40-A	54	26	20	23	19	14	17	7	M16	
ISO50-A	74	34	25	36	28	21	25	11.5	M24	

ISO B 型 FOR ISO / DIS 7388 / 2 / B

單位/Unit:mm

規 格/TYPE	L	ℓ1	ℓ2	D	d1	d2	d3	d4	M	備註/REMARK
ISO40-B	44.5	16.4	11.50	22.5	18.95	12.95	17	7.35	M16	
ISO50-B	65.5	25.5	17.95	37	29.10	19.60	25	11.55	M24	

拉桿螺栓
PULL STUDS

CAT 標準型 FOR ANSI B5-50

單位/Unit:mm

規 格/TYPE	a°	L	ℓ1	ℓ2	D	d1	d2	d3	M	備註/REMARK
CAT40	45	38.1	16.2	11.2	23.8	18.8	12.4	7.4	5/8"	
CAT50	45	58.4	25.4	17.8	36.0	28.9	20.8	11.8	1"	

CAT-BT 型 FOR BT MACHINE

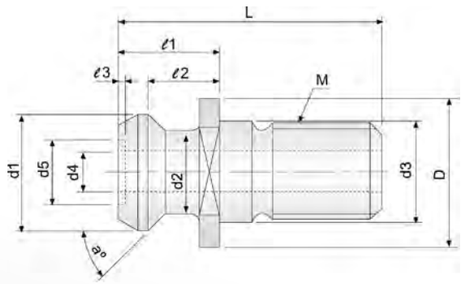
單位/Unit:mm

規 格/TYPE	a°	L	ℓ1	ℓ2	D	d1	d2	d3	M	備註/REMARK
CAT40x45°	45	57.0	32	25.0	23	15	10	-	5/8"	
CAT40x60°	60	57.0	32	25.0	23	15	10	-	5/8"	
CAT40x90°	90	57.0	32	25.0	23	15	10	-	5/8"	
CAT50x45°	45	78.6	45	35.2	38	23	17	-	1"	
CAT50x60°	60	78.6	45	35.2	38	23	17	-	1"	
CAT50x90°	90	78.6	45	35.2	38	23	17	-	1"	
CAT40x45°M	45	57.0	32	25.0	23	15	10	17	M16	
CAT40x60°M	60	57.0	32	25.0	23	15	10	17	M16	
CAT40x90°M	90	57.0	32	25.0	23	15	10	17	M16	

拉桿螺栓

PULL STUDS

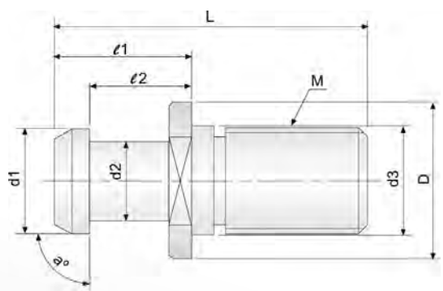
MAZAK 型 FOR MAZAK MACHINE



單位/Unit:mm

規 格/TYPE	L	ℓ1	ℓ2	ℓ3	D	d1	d2	d3	d4	d5	M	備註/REMARK
MAZAK BT50	65.2	25.2	17.58	1.8	37	28.95	20.83	25	10	16	M24	
MAZAK BT40	44.1	19.1	14	-	22	18.8	12.45	17	7	-	M16	
MAZAK CAT40	41.1	16.1	11	-	22	18.8	12.45	17	7	-	M16	

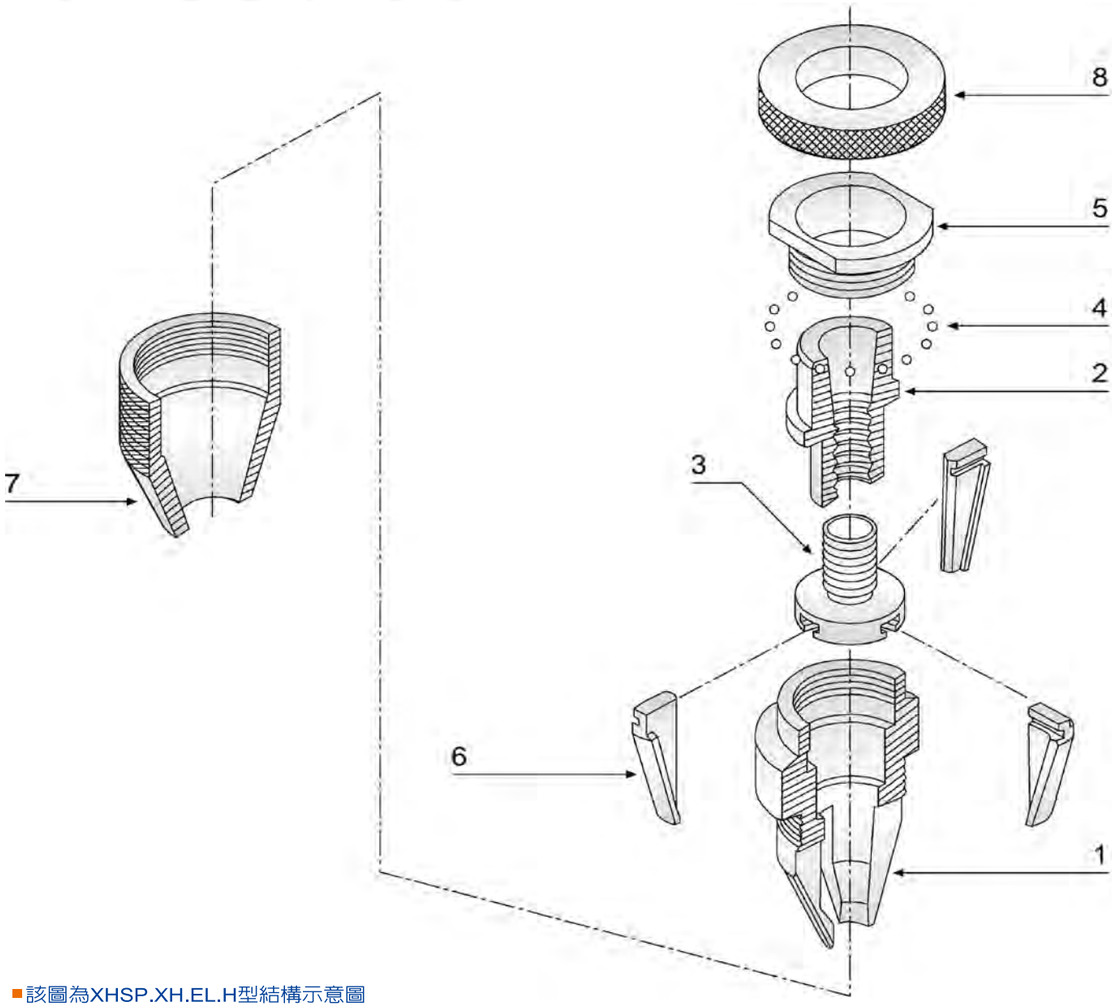
MITSUI 型 FOR MITSUI MACHINE



單位/Unit:mm

規 格/TYPE	a°	L	ℓ1	ℓ2	D	d1	d2	d3	M	備註/REMARK
MITSUI BT40	90	50	25	18	23	15	10	17	M16	
MITSUI BT50	90	71	31	23	36	24	18	25	M24	

結構示意圖 SECTION DRAWING



■該圖為XHSP.XH.EL.H型結構示意圖
• Only Used for XHSP. XH. H Type.

單位/Unit:mm

編號 Type	部件名稱 Part Name	材質 Meterial	硬度 Heat-treatment
1	本體/Body	JIS G4051(SAE1045)	-
2	主軸/Hollow Shaft	JIS SCM415(SAE4115)	HRC60°±2°
3	推桿/Driver	JIS SNCM439(SAE4340)	HRC52°±2°
4	鋼珠/Ball	-	-
5	鎖緊螺母/Locking Nut	JIS SCM435(SAE4135)	HRC54°±2°
6	三爪/Jaws	JIS SNCM439(SAE4340)	HRC61°±2°
7	前套/Conical Sleeve	JIS SCM415(SAE4115)	HRC50°±2°
8	釦環/Retaining Ring	JIS G4051(SAE1045)	-

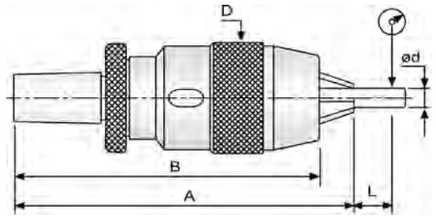
INT 型

■一體式主軸更優於傳傳統設計。
主要特點有：
• 結構緊密。 • 能防止夾頭脫落。 • 操作安全。
• 把傳統結構中柄與夾頭連接產生誤差減少到最小。
台灣專利號碼:No.75900 美國專利號碼:No.5275516

■**TYPE:INT-C Integrated Type Keyless Drill Chucks**
The main-shaft is of integrated type, which is much more superior than the traditional design. The major features are as follows.
1. Extremely rigid constructiion.
2. The accumulative tolerances can be reduced to a minimum, since the traditional mechanism requring and arbor to connect the Drill chucks which will generate the accumulative tolerances. The integrated type keyless Drill chuck is designed to solve this problem totally.
3. Prevent the Drill chucks from falling out.
4. Extremely safe in operation.
TAIWAN PAT. NO. 75900 USA PAT. NO. 5275516

精度與扭矩表
Run-out Accuracy & Torque Inspection Table

型號/TYPE	d	L	跳動/RUN-OUT	扭矩/TORQUE
INT-3	3	35	0.05	45
INT-8	3	35	0.05	160
	6			
	8	50		
INT-13	5	55	0.05	400
	10			
	13	75		
INT-16	5	55	0.05	480
	10			
	16	80		



單位/Unit:mm

型號/TYPE	夾持能力/CLAMPING	錐孔或直柄類型	D					
INT-3	0.5~3.175 [1/64"~1/8"]	MT1-C	25.0	127.5	122.5	160	20/0.83	4 / 5
		JC1/2"-C	25.0	107.0	102.0	150	20/0.83	4 / 5
		JC12-C	25.0	107.0	102.0	150	20/0.83	4 / 5
INT-8	0.5~8.0 [1/64"~5/16"]	MT2-C	35.0	157.0	149.0	520	20/0.83	11/12
		JC20-C	35.0	141.0	133.0	500	20/0.83	10/11
		JC3/4"-C						
INT-13	0.5~13.0 [1/64"~1/2"]	R8-C	50.5	207.0	196.0	1500	20/0.83	30/31
		MT2-C	50.5	184.0	172.0	110	20/0.83	22/23
		MT3-C	50.5	201.0	190.0	1250	20/0.83	25/26
		MT4-C	50.5	227.0	216.0	1580	20/0.83	32/33
		JC20-C	50.5	164.0	153.0	1100	20/0.83	22/23
		JC3/4-C						
		JC25-C	50.5	174.0	163.0	1250	20/0.83	25/26
		JC-1-C						
		JC32-C	50.5	185.0	173.0	1450	20/0.83	29/30
		JC1-1/4-C						
INT-16	3.0~16.0 [1/8"~5/8"]	R8-C	56.0	211.0	198.0	1850	20/0.83	37/38
		MT3-C	56.0	207.0	194.0	1520	20/0.83	30/31
		MT4-C	56.0	232.0	219.0	1850	20/0.83	37/38
		JC20-C	56.0	165.0	152.0	1450	20/0.83	29/30
		JC3/4-C						
		JC25-C	56.0	175.0	162.0	1500	20/0.83	30/31
		JC1-C						
		JC32-C	56.0	197.0	184.0	1720	20/0.83	35/36
		JC1-1/4-C						

KPU型鑽夾頭

KPU TYPE KEYLESS DRILL CHUCK HEADS

KPU 型

■這類鑽夾頭主要與CNC自緊夾頭刀柄配合使用，是按照最高工程核准設計製造。莫氏錐度的短柄內螺紋設計使之更容易與CNC刀柄緊密連接，形成一體。

其主要特點有：

1.作為一體化的設計，鑽夾頭一旦與刀柄用螺釘旋緊後，就不會從刀柄上脫落。
2.特殊的結構設計保證了比較高的剛性。
3.使用性與可靠性高。
4.使用方便，壽命長。
5.100%的檢測與嚴格的質量控制保證了最可靠的精度。

■**KPU Type Precision Keyless Drill Chuck Heads.**

These chuck heads are specially for application in CNC keyless drill chucks.

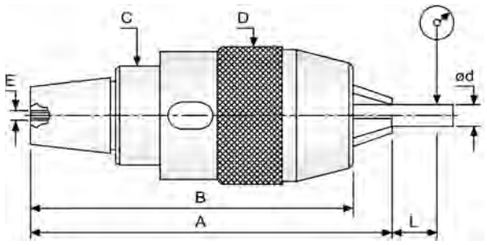
They are designed and manufactured to the highest engineering standards.

The female thread inside the short type MORSE TAPER SHANK. Make it possible to be firmly screwed together with CNC TOOL SHANK and becomes INTEGRAL CNC DRILL CHUCKS.

1. Being an integral design, the drill chuck heads once screwed together with TOOL HOLDER SHANK, the drill chucks will never be disengaged from the Holder shanks.
2. Very high rigidity due to the special design.
3. Excellent performance and reilability.
4. High durability and easy to operate.
5. Superb accuracy is guaranteed because of 100% inspection and strict quality control.

精度與扭矩表

Run-out Accuracy & Torque Inspection Table



單位/Unit:mm

型號/TYPE	d	L	跳動/RUN-OUT	扭矩/TORQUE
KPU-8	3	35	0.05	160
	6			
	8	50		
KPU-13	5	55	0.05	320
	10			
	13	75		
KPU-16	5	55	0.05	480
	10			
	16	80		

型號 TYPE	夾持能力 CLAMPING CAPACITY	錐孔類型 FEMALE TAPER	A	B	C	D	E	重量 WT(g)	QTY Pcs/Cu-Ft	淨/毛重 NW/GW(Kgs)
KPU-8	0.5~8.0 [1/64"~5/16"]	MT2	90	82.5	30	35	M6x1.00	360	40/0.6	15/16
KPU13	0.5~13.0 [1/64"~1/2"]	MT2	101	76.0	30	56	M8x1.25	1000	30/0.6	30/31
		MT3	118	106.0	38	56	M8x1.25	1000	30/0.6	30/31
KPU16	3.0~16.0 [1/8"~5/8"]	MT3	128	115.0	43	56	M8x1.25	1300	18/0.6	24/25

XHSP型鑽夾頭

XHSP TYPE KEYLESS DRILL CHUCK HEADS

XHSP 型

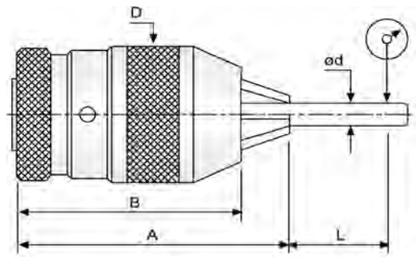
■針對強扭矩場合的特殊設計和製造
■先選的檢測儀器保證了優良的精度要求，夾緊力是其他同類產品的兩倍
■配有鎖緊板手，防止在使用過程中瞬間轉向改變而導致鑽頭脫落
■特別適合於CNC中心機和銑床使用

■**TYPE:XHSP Keyless Drill Chucks**

1. Special design &manufacture against for super heavy torque (Clamping capacity) use.
2. Owing to inspecting strictly & with excellent RUN-OUT accuracy and quality guanteed the gripping power is double than the general brands.
3. Avoid the drill dropped when used in instantaneous change of direction and equipped with spanner for tightening perfact safety.
4. Especially suitable for CNC machining center & milling machine use.

精度與扭矩表

Run-out Accuracy & Torque Inspection Table



單位/Unit:mm

型號/TYPE	d	L	跳動/RUN-OUT	扭矩/TORQUE
6XHSP	3	35	0.05	80
	6			
8XHSP	3	35	0.05	160
	8	50		
10XHSP	3	35	0.05	260
	10	60		
13XHSP	5	55	0.05	400
	10			
	13	75		
16XHSP	5	55	0.05	480
	10			
	16	80		

型號/TYPE	夾持能力/CLAMPING	錐孔或直柄類型	D	A	B	重量WT(g)	QTY Pcs/Cu-Ft	淨/毛重NW/GW(Kgs)
6XHSP	0.5~6.5 [1/64"~1/4"]	B12	34.0	69	61	320	8/0.6	26/27
		J1	34.0	69	61	320	8/0.6	26/27
		B10	34.0	69	61	320	8/0.6	26/27
8XHSP	0.5~8.0 [1/64"~5/16"]	J2S	34.0	69	61	320	40/0.6	13/14
		B10	34.0	69	61	320	40/0.6	13/14
		J1	34.0	69	61	320	40/0.6	13/14
10XHSP	0.5~10.0 [1/64"~3/8"]	B12	34.0	69	61	320	40/0.6	13/14
		J33	43.0	92	81	700	40/0.6	28/29
		J2	43.0	92	81	700	40/0.6	28/29
		J2S	43.0	92	81	700	40/0.6	28/29
		B12	43.0	92	81	700	40/0.6	28/29
		B16	43.0	92	81	700	40/0.6	28/29
13XHSP	0.5~13.0 [1/64"~1/2"]	J6	51.5	103	92	1030	30/0.6	31/32
		J2	51.5	103	92	1035	30/0.6	31/32
		J33	51.5	103	92	1035	30/0.6	31/32
		B16	51.5	103	92	1030	30/0.6	31/32
16XHSP	3.0~16.0 [1/8"~5/8"]	J6	58.0	108	95	1450	24/0.6	35/36
		J33	58.0	108	95	1450	24/0.6	35/36
		B16	58.0	108	95	1450	24/0.6	35/36
		B18	58.0	108	95	1450	24/0.6	35/36
		J3	58.0	108	95	1450	24/0.6	35/36
扳手/KEY	8XHSP							
扳手/KEY	10XHSP							
扳手/KEY	13XHSP							
扳手/KEY	16XHSP							

XH型鑽夾頭

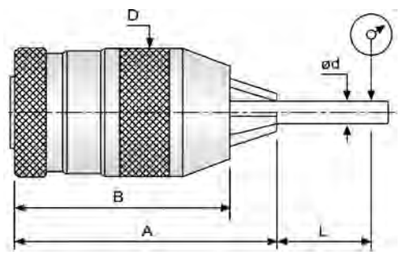
XH TYPE KEYLESS DRILL CHUCK HEADS

XH 型

- 適用於銑床、鑽床及重型鑽加工。
- 高精度超強鑽夾頭。
- 剛性好，扭距大。

- Suitable for milling & drilling machine and heavy duty drilling use.
- High precision super drill chucks.
- Good rigidity allows high torque.

精度與扭矩表
Run-out Accuracy & Torque Inspection Table



單位/Unit:mm

型號/TYPE	d	L	跳動/RUN-OUT	扭矩/TORQUE
6XHSP	3	35	0.05	80
	6			
8XHSP	3	35	0.05	160
	8	50		
10XHSP	3	35	0.05	260
	10	60		
13XHSP	5	55	0.05	400
	10			
	13	75		
16XHSP	5	55	0.05	480
	10			
	16	80		

型號/TYPE	夾持能力/CLAMPING	錐孔或直柄類型	D	A	B	重量WT(g)	QTY Pcs/Cu-Ft	淨/毛重NW/GW(Kgs)
6XH	0.5~6.5 [1/64"~1/4"]	B12	34.0	69	61	320	8/0.6	26/27
		J1	34.0	69	61	320	8/0.6	26/27
		B10	34.0	69	61	320	8/0.6	26/27
8XH	0.5~8.0 [1/64"~5/16"]	J1	34.0	69	61	340	40/0.6	14/15
		J2S	34.0	69	61	340	40/0.6	14/15
		B10	34.0	69	61	340	40/0.6	14/15
		B12	34.0	69	61	340	40/0.6	14/15
10XH	0.5~10.0 [1/64"~3/8"]	J2S	43.0	92	81	700	40/0.6	28/29
		J2	43.0	92	81	700	40/0.6	28/29
		J33	43.0	92	81	700	40/0.6	28/29
		B12	43.0	92	81	700	40/0.6	28/29
		B16	43.0	92	81	700	40/0.6	28/29
13XH	0.5~13.0 [1/64"~1/2"]	J2	51.5	103	92	1030	30/0.6	31/32
		J6	51.5	103	92	1030	30/0.6	31/32
		J33	51.5	103	92	1035	30/0.6	31/32
		B16	51.5	103	92	1030	30/0.6	31/32
16XH	3.0~16.0 [1/8"~5/8"]	J6	58.0	108	95	1370	24/0.6	33/34
		B16	58.0	108	95	1370	24/0.6	33/34
		B18	58.0	108	95	1365	24/0.6	33/34
		J3	58.0	108	95	1340	24/0.6	33/34
		J33	58.0	108	95	1340	24/0.6	33/34

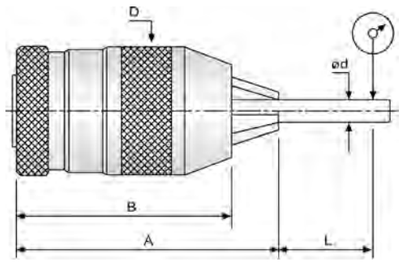
H型鑽夾頭

H TYPE KEYLESS DRILL CHUCK HEADS

H 型

- 用於中等級加工
- 適用於鑽床
- 簡便堅固
- Used for medium duty drilling operations.
- Suitable for drilling machines.
- Compact & rigid.

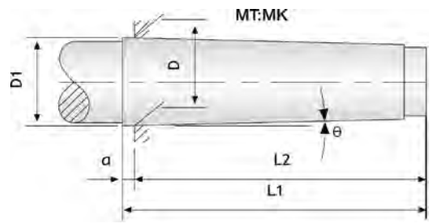
精度與扭矩表
Run-out Accuracy & Torque Inspection Table



單位/Unit:mm

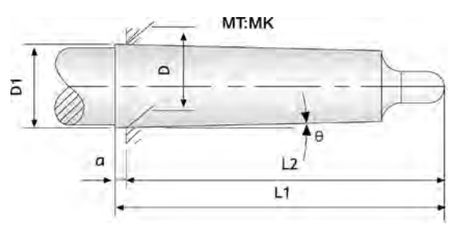
型號/TYPE	d	L	跳動/RUN-OUT	扭矩/TORQUE
6H	3	35	0.08	75
	6			
8H	8	50	0.08	75
10H	3	35	0.08	115
	6			
	10	58		
13H	5	55	0.08	175
	10			
	13	75		
16H	5	55	0.08	300
	10			
	16	80		

型號/TYPE	夾持能力/CLAMPING	錐孔或直柄類型	D	A	B	重量WT(g)	QTY Pcs/Cu-Ft	淨/毛重NW/GW(Kgs)
6H	0.5~6.5 [1/64"~1/4"]	J1	34	69	61	320	80/0.6	26/27
		B10	34	69	61	320	80/0.6	26/27
		B12	34	69	61	320	80/0.6	26/27
8H	0.5~8.0 [1/64"~5/16"]	J1	34	69	61	340	80/0.6	28/29
		J2	34	69	61	340	80/0.6	28/29
		B10	34	69	71	340	80/0.6	28/29
		B12	34	69	71	340	80/0.6	28/29
10H	0.5~10.0 [1/64"~1/2"]	J2S	42.5	92	81	700	40/0.6	28/29
		J2	42.5	92	81	700	40/0.6	28/29
		J33	42.5	92	81	700	40/0.6	28/29
		B12	42.5	92	81	705	40/0.6	28/29
		B16	42.5	92	81	705	40/0.6	28/29
13H	0.5~13.0 [1/64"~3/8"]	J6	50.5	103	92	1030	30/0.6	31/32
		J33	50.5	103	92	1035	30/0.6	31/32
		B16	50.5	103	92	1030	30/0.6	31/32
16H	3.0~16.0 [1/8"~5/8"]	J6	50.5	103	92	1030	30/0.6	31/32
		B16	50.5	103	92	1030	30/0.6	31/32
		B18	50.5		97	1040	30/0.6	31/32



單位/Unit:mm

MORES TAPER MT/MK	a	L1	L2	D	D1	θ
0	3.0	53	50.0	9.045	9.2	1° 29'27"
1	3.5	57	53.5	12.065	12.2	1° 25'43"
2	5.0	69	64.0	17.780	18.0	1° 25'50"
3	5.0	86	81.0	23.825	24.1	1° 26'16"
4	6.5	109	102.5	31.267	31.6	1° 29'15"
5	6.5	136	129.5	44.399	44.7	1° 30'26"
6	8.0	190	182.0	63.348	63.8	1° 29'36"
7	10.0	260	250.0	83.058	83.6	1° 29'22"



單位/Unit:mm

MORES TAPER MT/MK	a	L1	L2	D	D1	θ
0	3.0	59.5	56.5	9.045	9.2	1° 29'27"
1	3.5	65.5	62.0	12.065	12.2	1° 25'43"
2	5.0	80.0	75.0	17.780	18.0	1° 25'50"
3	5.0	99.0	94.0	23.825	24.1	1° 26'16"
4	6.5	124.0	117.5	31.267	31.6	1° 29'15"
5	6.5	156.0	149.5	44.399	44.7	1° 30'26"
6	8.0	218.0	210.0	63.348	63.8	1° 29'36"
7	10.0	296.0	286.0	83.058	83.6	1° 29'22"

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