



## 搪孔組合系統

組合式搪孔刀-兩個相隔90°有斜面的鎖緊螺絲，結合搪孔刀柄使徑向與軸向和帶動稍緊密著，產生最大的剛性。

彈性的搪孔刀組合，對應各種加工孔徑的大小及加工孔徑的深度，組合搪孔刀柄、延長接桿、縮徑接桿、結合粗搪孔刀、精搪孔刀而彈性變化。

我們依據組合刀柄外徑為系統代表稱H25，H為系統代表，25為組合刀柄外徑尺寸值，目前有H25、H32、H40、H50、H63、H80、H100系統。

## 大孔徑組合系統

彈性的搪孔刀組合，對應各種較大的加工孔徑及加工孔徑的深度，組合搪孔刀柄、變徑滑座、結合粗搪孔刀、精搪孔刀而彈性變化，目前有h100-B72、h100-AL120系統。

### Modular Boring System

Taper shank, stepped spacer, extension spacer and the body have two screw holes at a 90 degrees distance on the sides. Except taper shank, the stepped spacer, extension spacer and the body have a pin. A hole can also be found at the bottom of taper shank, stepped spacer and extension spacer. With these features of two screw holes, a pin and a bottom hole, the combination of taper shank with any of the stepped spacer, extension spacer and body, makes a tight lock in the system as it makes a strong interaction; thus, showing a more rigid feature of our modular boring system.

Besides being rigid, the modular boring system is also very flexible. Its flexibility allows the system to easily adapt to process various sizes and depth of the hole of the diameter.

In naming the outer diameter of the taper shank, extension spacer, stepped spacer and boring head, we used the symbol "H" followed by a number, which represents the size of the outer diameter. For instance, H25, wherein in "H" is the symbol while 25 is the value of the outer diameter. Hence, in this series, there are H25, H32, H40, H50, H63, H80 and H100 system.

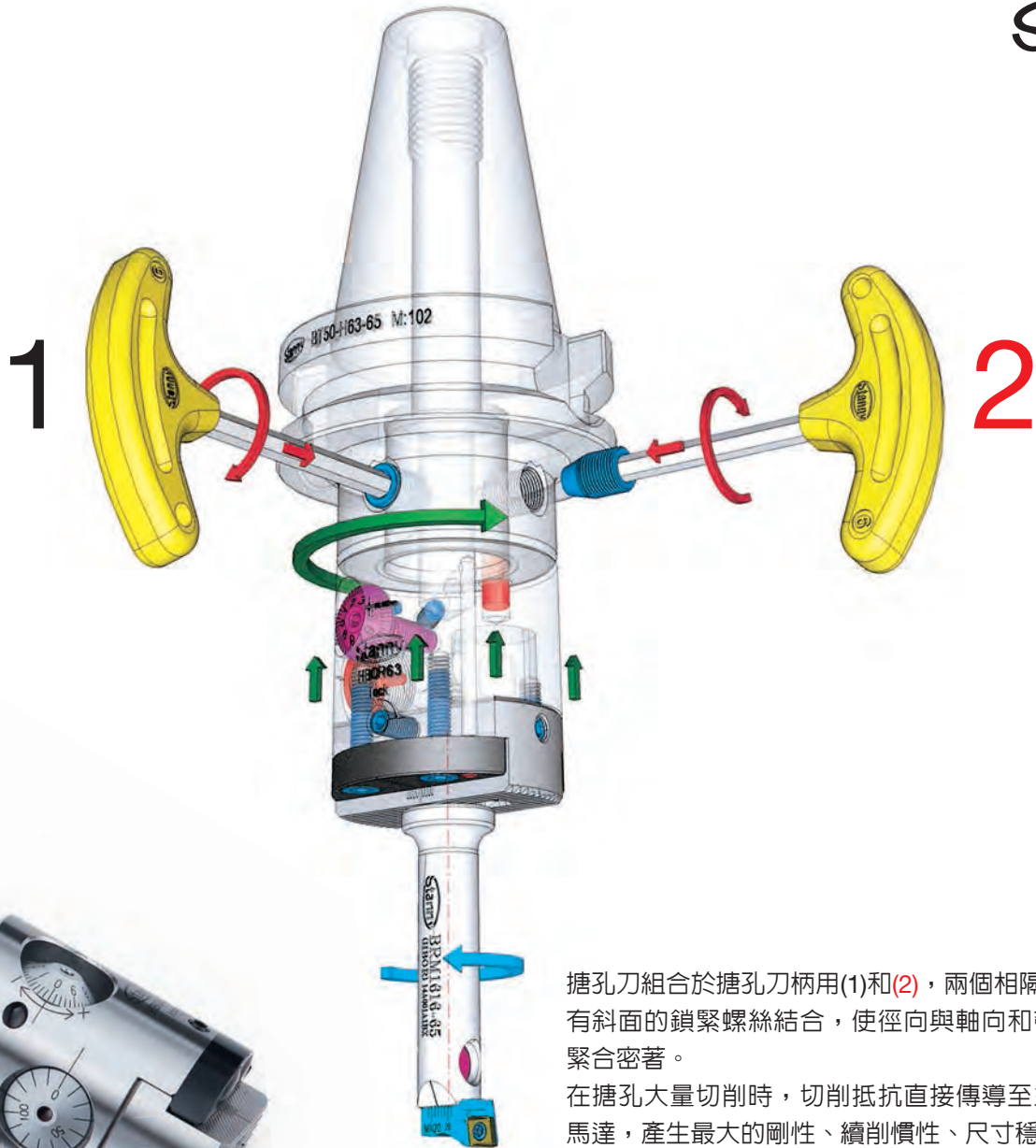
### Large Diameter Modular Boring System

Large diameter modular boring system is also very flexible. Its flexibility allows the system to easily adapt to process various more big sizes and depth of the hole of the diameter. Hence, in this series, there are h100-B72 and h100-AL120 system.





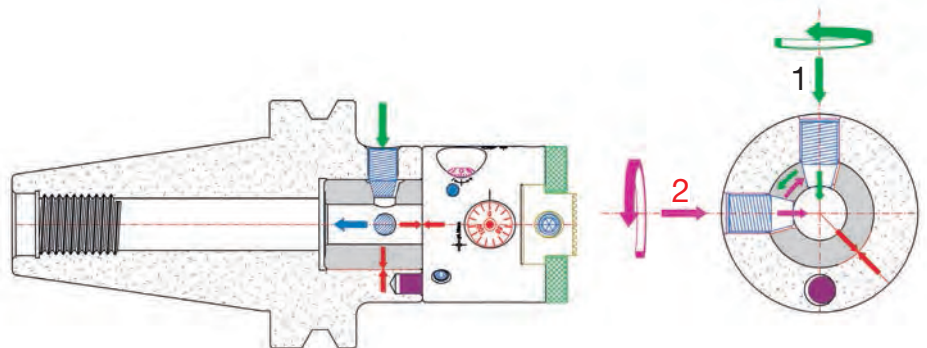




搪孔刀組合於搪孔刀柄用(1)和(2)，兩個相隔90°有斜面的鎖緊螺絲結合，使徑向與軸向和帶動梢緊合密著。  
在搪孔大量切削時，切削抵抗直接傳導至主軸與馬達，產生最大的剛性、續削慣性、尺寸穩定。

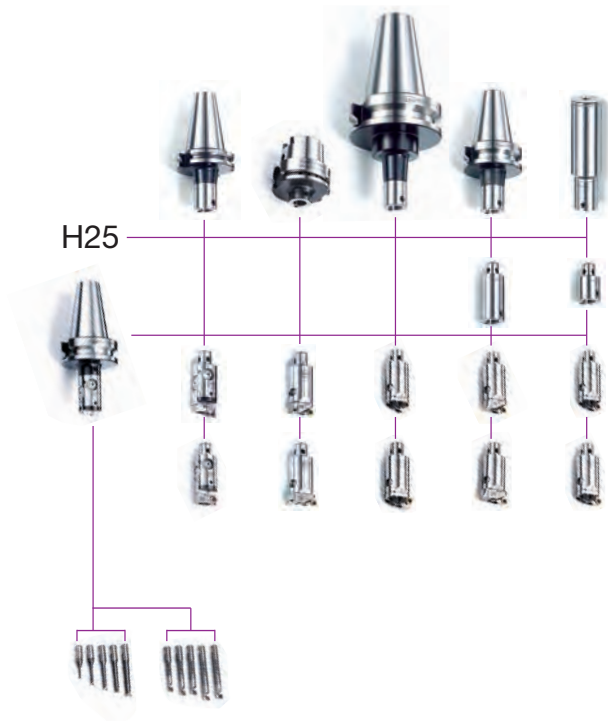
Modular boring system combination taper shank, stepped spacer, extension spacer and the body have two screw holes at a 90 degrees distance on the sides. Except taper shank, the stepped spacer, extension spacer and the body have a pin. A hole can also be found at the bottom of taper shank, stepped spacer and extension spacer. With these features of two screw holes, a pin and a bottom hole, the combination of taper shank with any of the stepped spacer, extension spacer and body, makes a tight lock in the system as it makes a strong interaction.

When boring, the cutting force is conducted to the spindle and motor providing a more rigid, continuous cutting action and dimensional stability.





# 搪孔組合系統 Modular Boring System



TW Pat.166331

TW Pat.162721

TW Pat.192985

TW Pat.226181

TW Pat.206367

TW Pat.208543

TW Pat.M360098

TW Pat.M407801

TW Pat.M444234

TW Pat.I491457

TW Pat.M501907

TW Pat.M513747

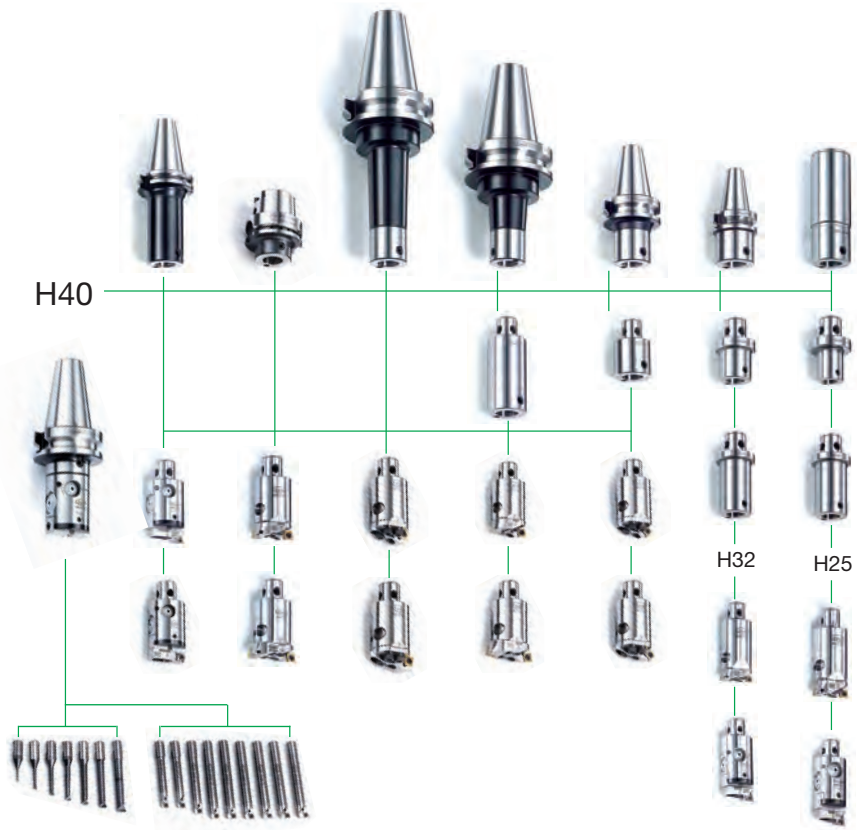
TW Pat.M513076

CN Pat.ZL 02 2 64588.8

CN Pat.ZL 02 2 64589.6

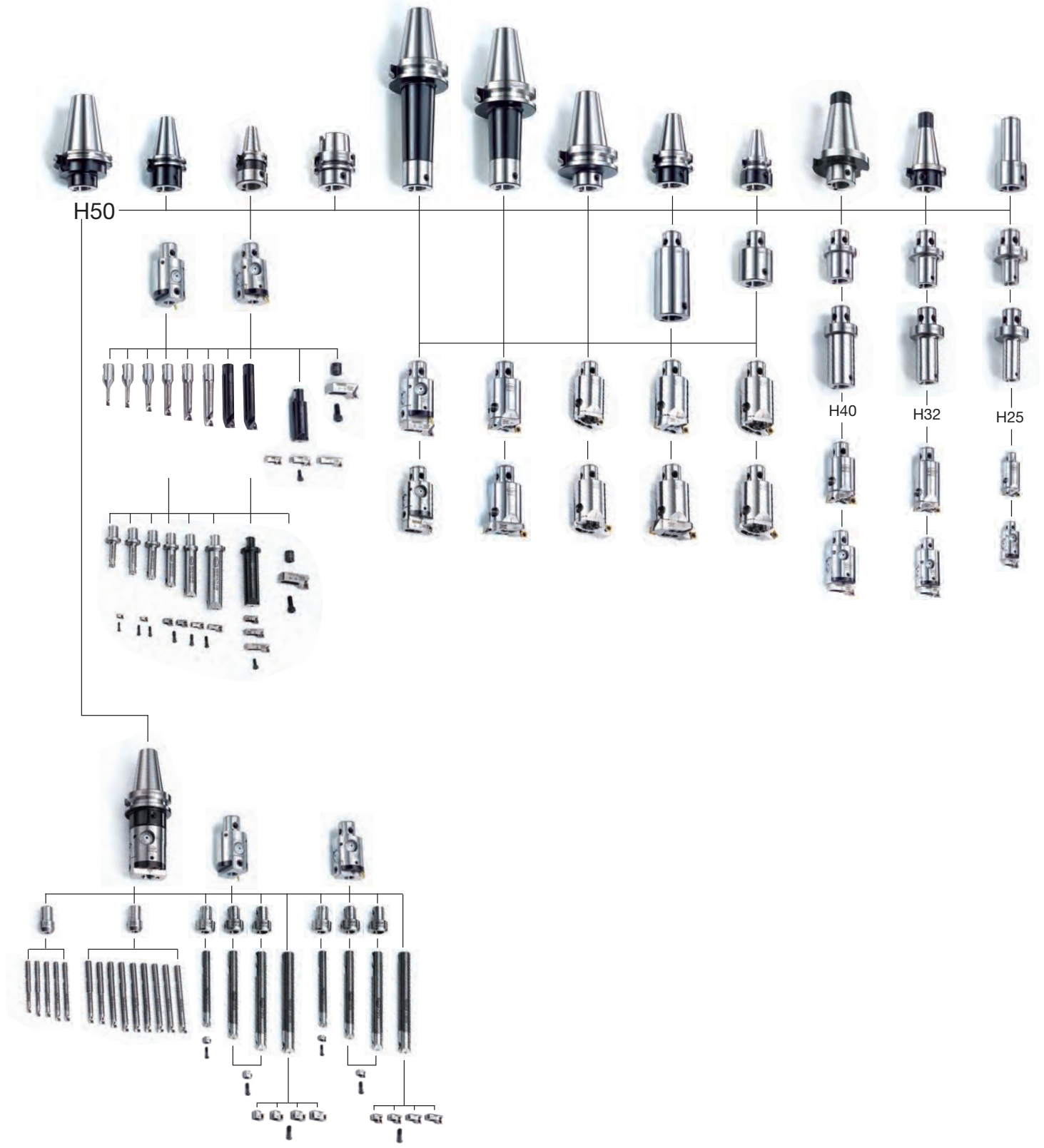
CN Pat.ZL 2010 1 0537456.3

CN Pat.ZL 2015 2 0044685.X



尺寸規格如有變更，恕不另行通知。  
 The above specifications are subject to change without prior notice.

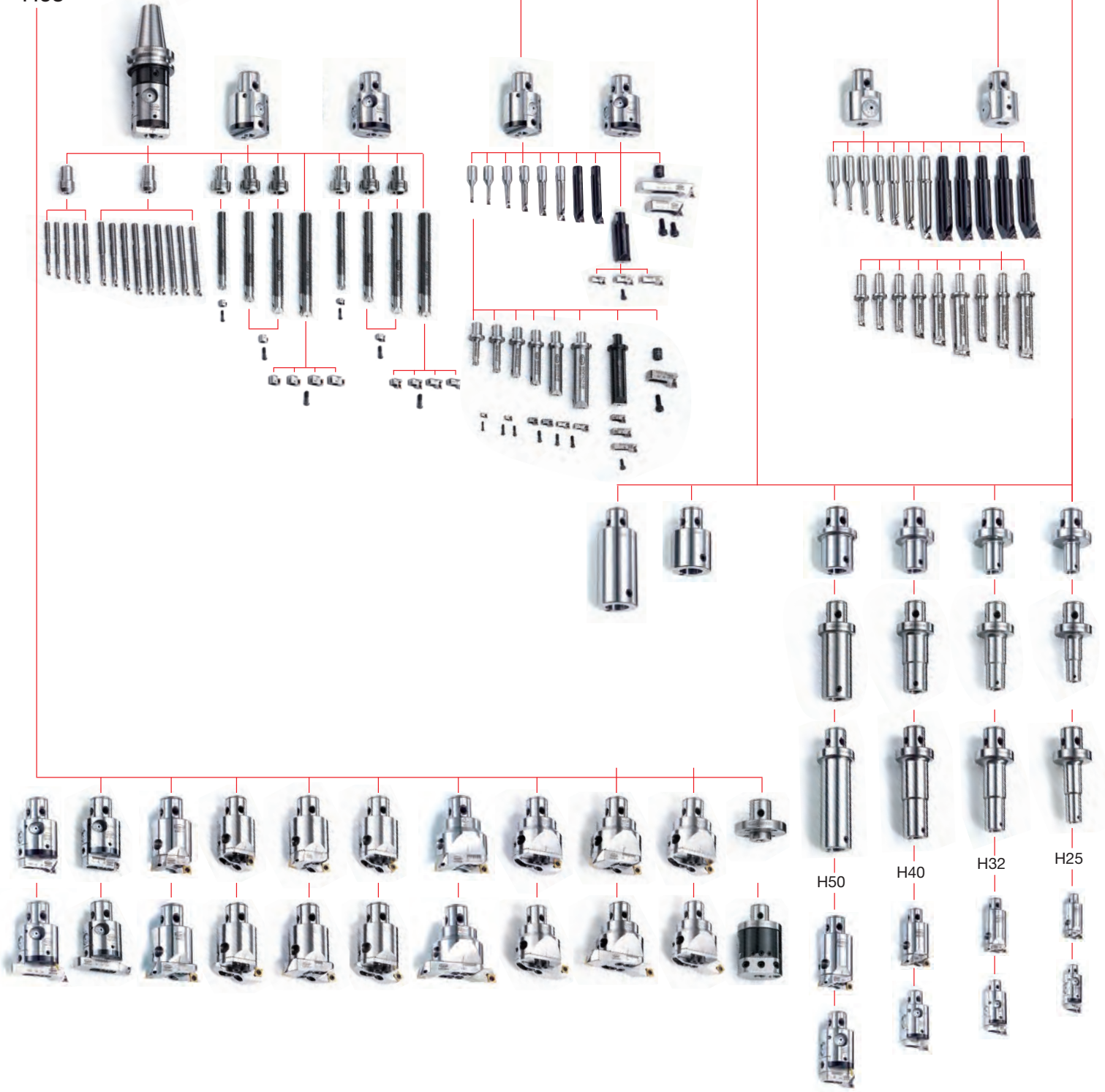








H63

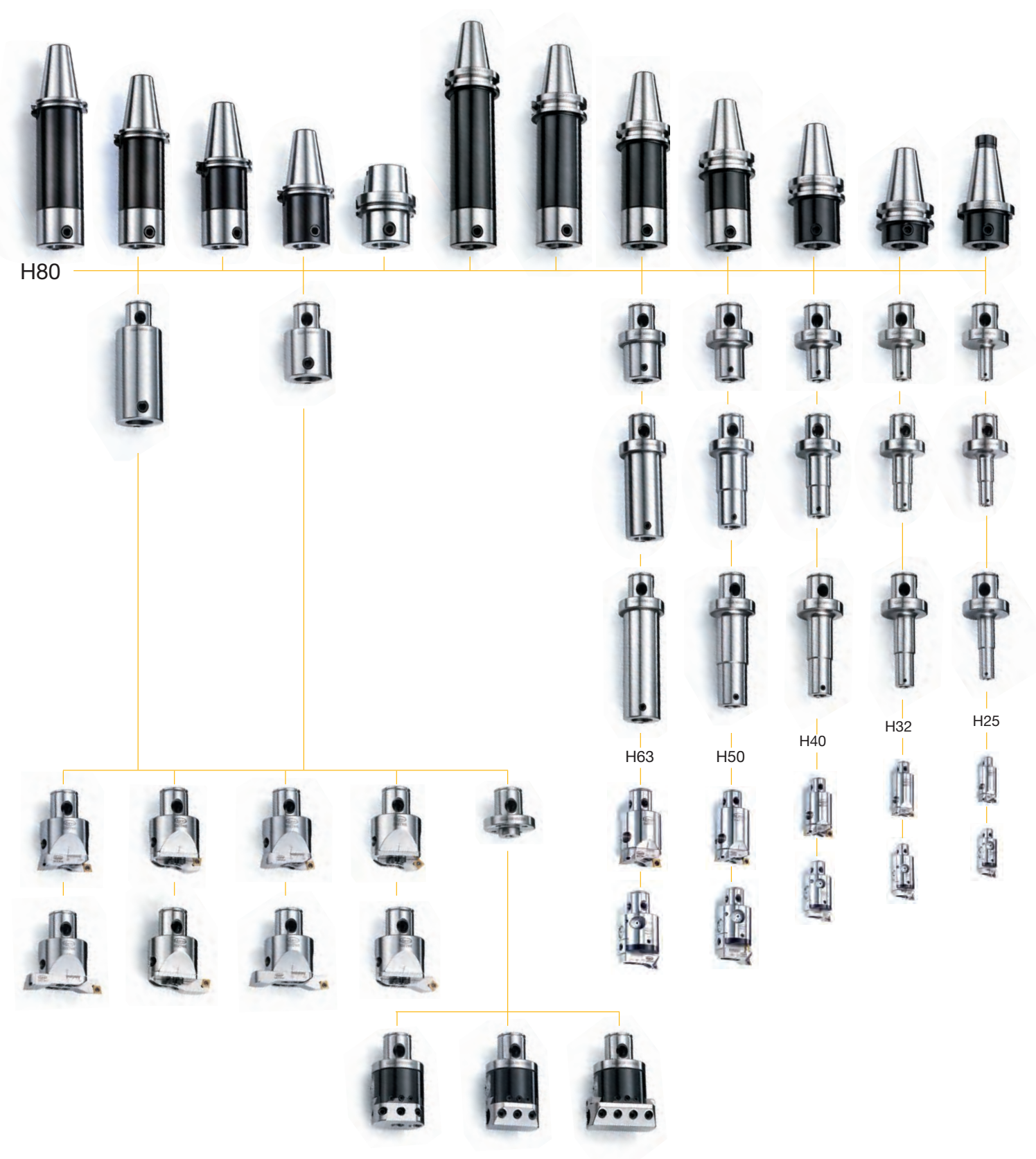


H50

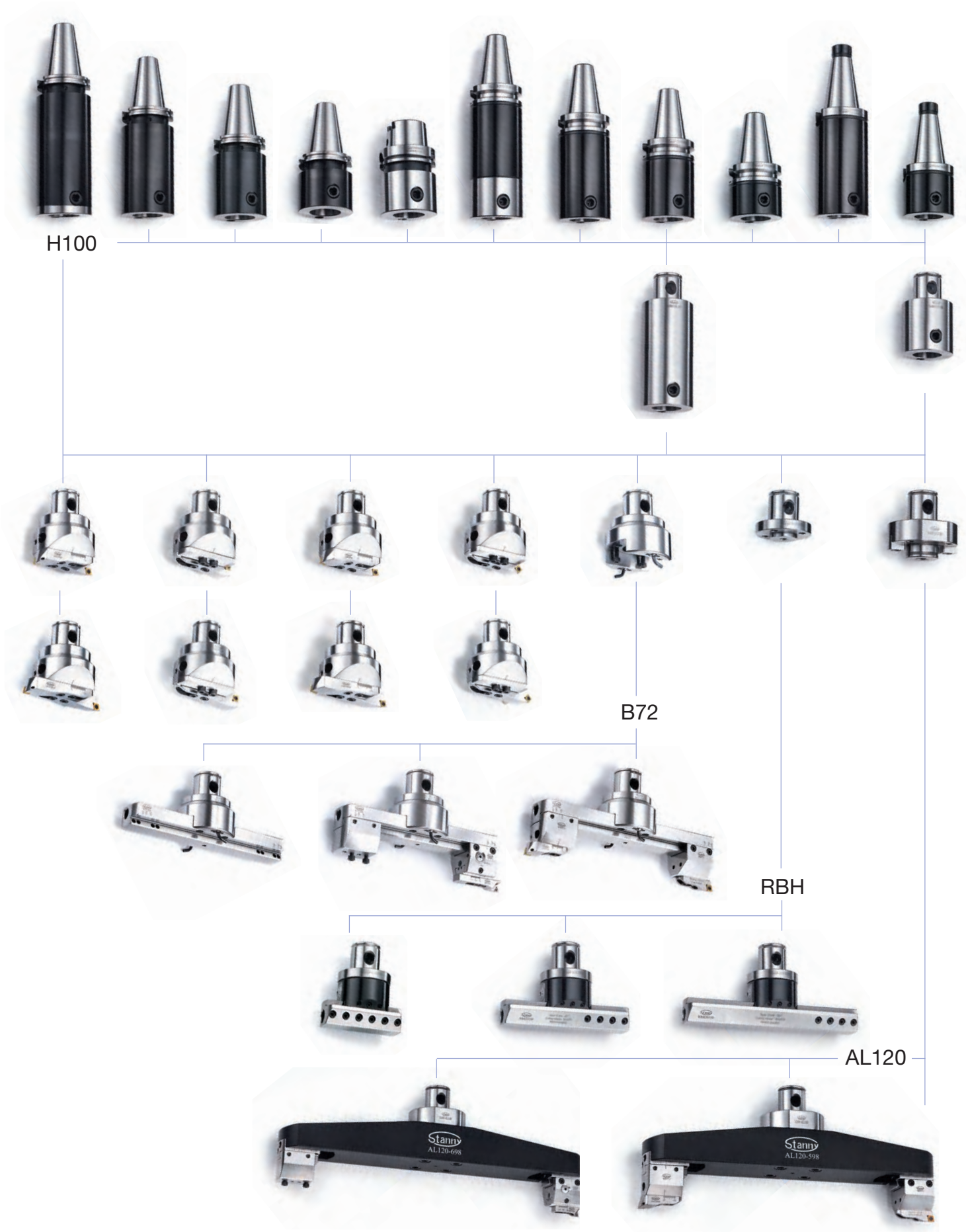
H40

H32

H25









## HBIT 雙刃粗搪孔刀組合系統

### 功能

粗搪孔刀組合系統，由粗搪孔刀本體組合不同的粗搪孔刀座－各種不同形式的搪孔切削。

- 單刃－搪孔，校正調整單刃(SACC或SBCC)粗搪孔刀座，切削孔徑尺寸－單刃精搪孔。
- 單刃－反搪，校正調整單刃(RKCC)粗搪孔刀座，切削反搪孔孔徑。
- 單刃－45°倒角，校正調整單刃(IWSC)粗搪孔刀座，切削孔徑正反倒角。
- 雙刃－粗搪，校正調整雙刃(SACC + SACC)或(SBCC + SBCC)等高粗搪刀座，切削相同直徑，可快速進給粗搪孔。
- 雙刃－段差粗搪，校正調整雙刃(SACC + SBCC)不等高粗搪刀座，分別切削不同直徑，為較大量切削，分割兩段切削，較容易排屑，為粗搪深孔切削。
- 雙刃－80°粗搪，校正調整雙刃(EMSC)粗搪孔刀座，切削相同直徑。大量切削，降低切削阻力，用於貫穿孔切削。

粗搪孔刀調整粗搪孔刀座尺寸：調整螺絲每迴轉一圈，促使粗搪孔刀座位移尺寸1mm，等同於外部尺寸刻劃線一格，為實際搪孔直徑 $\phi 2\text{mm}$ 。



## **HBIT Adjustable Twin Cutter Roughing and Semi-Finishing Boring System. Function**

Adjustable twin cutter roughing and semi-finishing boring system can have the following functions:

- a. We can use either SACC or SBCC cutting insert holder.
- b. We can use RKCC cutting insert holder for reverse cutting.
- c. We can use IWSC cutting insert holder for positive and negative 45° chamfer cutting.
- d. We can use two SACC (SACC + SACC) or two SBCC (SBCC + SBCC) cutting insert holders.

Note: Using the same cutting diameters can speed up the feeding of roughing boring & cutting.

- e. We can use two different insert holders SACC + SBCC

Note: Using different height and different cutting diameters is easier for chip removal.

- f. We can use two EMSC (EMSC + EMSC) 80° cutting insert holders, cutting same diameter.

Note: A lot of cutting lower cutting resistance, used for cutting through the hole.

In adjusting the roughing and semi-finishing system, when you rotate the bolt one complete turn, at the side there is a scale or graduation wherein one graduation is equal to 1mm travel, thus, the total boring diameter is  $\varnothing 2\text{mm}$ .





## HBIT 雙刃粗搪孔刀

### 特色

雙刃粗搪孔刀，具有齒形組合搪孔刀，極為穩定牢固，在齒形方向調整粗搪孔刀座尺寸，可以使粗搪孔刀座往外前進，也可以使粗搪孔刀座向內後退，自由的前進後退，在刀具設定儀上校正調整粗搪孔刀座切削孔徑尺寸，配合鎖緊刀座螺絲，很容易完成粗搪孔刀座尺寸的調整，結合於搪孔刀柄，極為穩定牢固的粗搪孔刀。

### HBIT Adjustable Twin Cutter Roughing and Semi-Finishing Boring System.

#### Feature

With the "gear-mat type" feature of adjustable twin-cutter roughing and semi-finishing boring system, it allows the system to move forward and backward freely. This is best for adjusting the diameter in the tool preset as it is easier to set in a shorter time.



## HBIT 雙刃粗搪孔刀

### 零件

- A. 鎖緊刀座螺絲、彈性墊片
- B. 粗搪孔刀座、鎖緊刀片螺絲
- C. 調整螺帽、雙向螺絲
- D. 粗搪孔刀本體、中心冷卻劑出口
- E. 搪孔刀柄
- F. 延長接桿、縮徑接桿

## HBIT Adjustable Twin Cutter Roughing and Semi-Finishing Boring System.

### Components

- A. Cutting Insert Holder Mounting Bolt and Spring Washer
- B. Cutting Insert Holder and Insert Clamping Bolt
- C. Adjusting Nut and Setting Bolt
- D. Body and Coolant Outlet
- E. Taper Shank
- F. Extension Spacer, Stepped Spacer



## HBOR 極細微調精搪孔刀

### 功能

微調尺寸刻劃環，每一格 $\text{\O}0.002\text{mm}$ 極為精細的尺寸分割，配合被切削材質選適用的精密級刀片與預設平衡的迴轉切削，使精搪孔孔徑更為精確。

參考刻劃環，每一格 $\text{\O}0.10\text{mm}$ 為目視參考，當轉動微調尺寸刻劃環分割尺寸極細時，相對帶動參考刻劃環，位移精搪孔刀徑尺寸。齒型滑座外部刻劃線，每一格 $\text{\O}2\text{mm}$ 。

高速切削精搪孔平衡系統”P系列”，組合精搪孔刀柄與極細微調精搪孔刀本體，在中心軸線，預設 $\text{G}2.5$   $12000\text{rpm}$ 動平衡，高速旋轉精搪孔，依然保持動平衡，使精搪孔更精確穩定。

- 在HBOR25P極細微調精搪孔刀本體中的內孔 $\text{\O}6$ ，可組合CA、CB系列小徑鎢鋼刀桿，使精搪孔孔徑範圍為 $\text{\O}2\sim\text{\O}7$ ， $\text{\O}5\sim\text{\O}7$ 為替換式刀片鎢鋼刀桿。
- 在HBOR32P和HBOR40P極細微調精搪孔刀本體中的內孔 $\text{\O}8$ ，可組合CA、CB系列小徑鎢鋼刀桿，使精搪孔孔徑範圍為 $\text{\O}2\sim\text{\O}9$ ， $\text{\O}7\sim\text{\O}11$ 為替換式刀片鎢鋼刀桿。
- 在HBOR50P極細微調精搪孔刀本體中的內孔 $\text{\O}16$ ，可組合CM、CR、BRM系列，可使精搪孔孔徑範圍為 $\text{\O}5\sim\text{\O}90$ 。
- 在HBOR63P極細微調精搪孔刀本體中的內孔 $\text{\O}16$ ，可組合CM、CR、BRM系列，可使精搪孔孔徑範圍為 $\text{\O}5\sim\text{\O}150$ 。
- 在HBOR50和HBOR63極細微調精搪孔刀本體中的內孔 $\text{\O}16$ ，組合BR系列小徑精搪孔刀桿，使精搪孔孔徑範圍為 $\text{\O}6\sim\text{\O}90$ 、 $\text{\O}6\sim\text{\O}150$ ，更為完整精搪孔範圍組合。

在精搪外徑系統，主要利用HBOR63極細微調精搪孔刀本體，組合BM16D滑座，並組合各種SLCC/ML(精搪)刀座，切削精搪外徑，範圍為 $0\sim\text{\O}100$ 。

極細微調反精搪精搪孔刀，視切削孔徑大小、深淺組合，以反向進給做精搪孔或切削背部端面。





## HBOR Micro-Finishing Cutter Fine Boring System.

### Function

The boring head consists of a boring dial adjuster and a reference dial, wherein each scale of the boring dial adjuster is equivalent to 2 $\mu$ m or 0.002mm. Each marking scale of the reference dial is equal to  $\phi$  100 $\mu$ m or 0.10mm.

High speed boring cutting balance system, P series, it has dynamic balance in G2.5 and 12000rpm.

It will increase boring dimension and in high speed cutting it still have dynamic balance.

The inside diameter of HBOR25P micro-finishing cutter fine boring system is  $\phi$  6mm. With the combination of CA and CB series, the diameter of HBOR25P can now be within the range of  $\phi$  2~ $\phi$  7 and  $\phi$  5~ $\phi$  7 respectively.

The inside diameter of HBOR32P and HBOR40P micro-finishing cutter fine boring system is  $\phi$  8mm. With the combination of CA and CB series, the diameter of HBOR32P and HBOR40P can now be within the range of  $\phi$  2~ $\phi$  9 and  $\phi$  7~ $\phi$  11 respectively.

The inside diameter of HBOR50P and HBOR63P micro finish boring system is  $\phi$  16mm. With the combination of CM, CR and BRM series, the diameter of HBOR50P and HBOR63P can now be within the range of  $\phi$  5~ $\phi$  90 and  $\phi$  5~ $\phi$  150 respectively.

The inside diameter of HBOR50 and HBOR63 micro finish boring system is  $\phi$  16mm. With the combination of BR series, the diameter of HBOR50 and HBOR63 can now be within the range of  $\phi$  6~ $\phi$  90 and  $\phi$  6~ $\phi$  150 respectively.

Outer diameter boring system, use HBOR63, BM16D and any kinds of SLCC or ML cutting insert holder then cutting external boring, the boring range 0~ $\phi$  100.

Micro-finishing cutter for reverse fine boring system should be assembled well depends on boring diameter and depth, then boring or machining back end with reverse feeding.





## HBOR

### 極細微調精搪孔刀

#### 特色

極細微調精搪孔刀，具有齒形滑座，嵌入方形滑軌，組合齒形精搪孔刀座可任意位移精搪孔刀座，極為穩定牢固。

齒形滑座，在齒形方向，可以前進也可以後退調整，配合迴轉平衡需求，可使齒形滑座先後退，再組合可位移精搪孔刀座至搪孔刀徑尺寸，為校正迴轉平衡最佳方法。

### HBOR Micro-Finishing Cutter Fine Boring System.

#### Feature

Micro-finishing cutter fine boring system is a "gear-mat type" slide and is inserted into the square track. This feature enables the boring system to be firmly and tightly locked.

The "gear-mat type" sliding feature of the micro finish boring system allows the system to be adjusted forward and backward to match its desired balance position. Thus, keeping the system firm and stable.





## HBOR 極細微調精搪孔刀

### 零件

- A. 鎖緊刀座螺絲
- B. 精搪孔刀座、鎖緊刀片螺絲
- C. 精搪孔刀桿、接桿
- D1. 微調尺寸刻劃環，每一格0.001mm  
直徑 $\phi 0.002\text{mm}$
- D2. 參考刻劃環，每一格0.05mm，直徑 $\phi 0.1\text{mm}$
- E. 刻劃線，每一格1mm直徑 $\phi 2\text{mm}$
- F. 精搪孔刀本體、中心冷卻劑出口
- G. 搪孔刀柄

## HBOR Micro-Finishing Cutter Fine Boring System.

### Components

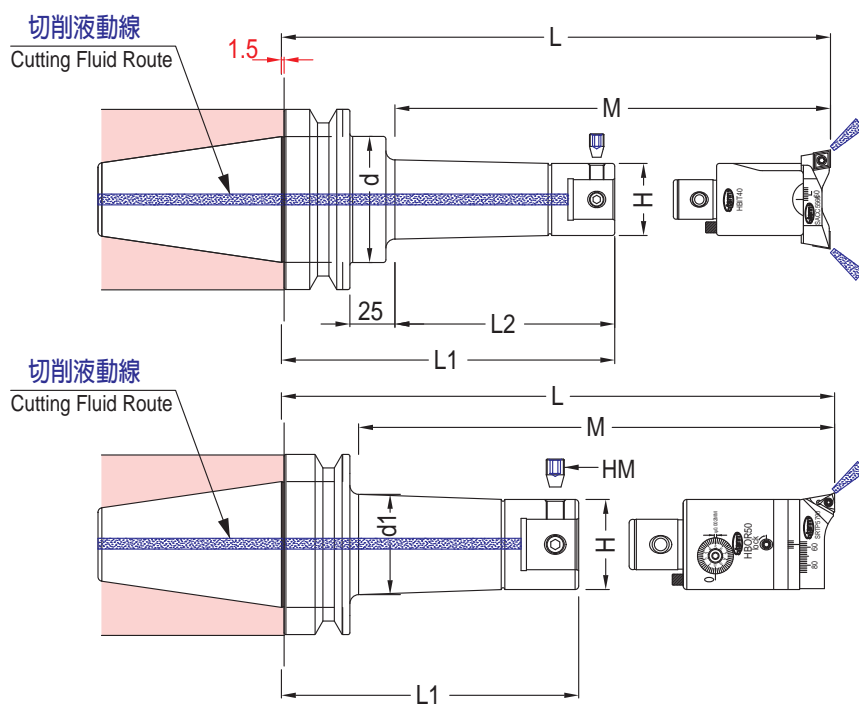
- A. Cutting Insert Holder Mounting Bolt
- B. Cutting Insert Holder and Insert Clamping Bolt
- C. Cutting Bar
- D1. Adjust the Graduation of the size, 0.001mm of each,  
diameter  $\phi 0.002\text{mm}$
- D2. Vice-graduation, 0.05mm of each, diameter  $\phi 0.1\text{mm}$
- E. Substandard, 1mm of each, diameter  $\phi 2\text{mm}$
- F. Body and Coolant Outlet
- G. Taper Shank





**MAS403 DBT 搪孔刀柄**  
**MAS403 DBT Taper Shank**

訂貨編號 Order No.	規 格 Model	H	HM	d	d1	L	L1	L2	M	淨 重 N.W.
40258404	DBT40-H25-40	25	M5×0.5	-	25	90	40	8	60	1.00
40258407	DBT40-H25-72	25	M5×0.5	-	29	122	72	42.5	90	1.12
40258410	DBT40-H25-100	25	M5×0.5	-	29	150	100	71	123	1.24
40258412	DBT40-H25-127	25	M5×0.5	-	29	177	127	98	145	1.38
40328404	DBT40-H32-40	32	M6×0.75	-	32	103	40	8	75	1.00
40328407	DBT40-H32-72	32	M6×0.75	-	36	135	72	41	102	1.20
40328412	DBT40-H32-120	32	M6×0.75	-	36	183	120	89	150	1.55
40328413	DBT40-H32-135	32	M6×0.75	-	36	198	135	104	165	1.66
40408404	DBT40-H40-40	40	M8×0.75	-	40	103	40	11	73	1.05
40408407	DBT40-H40-72	40	M8×0.75	-	44	135	72	42	102	1.31
40408413	DBT40-H40-130	40	M8×0.75	-	44	193	130	99	162	1.95
40408418	DBT40-H40-185	40	M8×0.75	-	44	248	185	154	212	2.52
40508405	DBT40-H50-50	50	M10×1.0	-	50	130	50	22	102	1.15
40508409	DBT40-H50-90	50	M10×1.0	-	56	170	90	60.5	142	1.72
40508413	DBT40-H50-130	50	M10×1.0	-	56	210	130	100.5	182	2.20
40508417	DBT40-H50-170	50	M10×1.0	-	56	250	170	140.5	222	3.07
40638405	DBT40-H63-55	63	M12×1.0	-	63	135	55	28	102	1.24
40638410	DBT40-H63-105	63	M12×1.0	-	63	185	105	78	152	2.45
40638415	DBT40-H63-155	63	M12×1.0	-	63	235	155	128	202	3.54



### MAS403 DBT 搪孔刀柄 MAS403 DBT Taper Shank

訂貨編號 Order No.	規格 Model	H	HM	d	d1	L	L1	L2	M	淨重 N.W.
40258511	DBT50-H25-115	25	M5×0.5	50	29	165	115	52	102	4.15
40258514	DBT50-H25-140	25	M5×0.5	50	29	190	140	77	127	4.30
40258516	DBT50-H25-165	25	M5×0.5	50	29	215	165	102	152	4.40
40328513	DBT50-H32-135	32	M6×0.75	63	36	198	135	72	135	4.55
40328516	DBT50-H32-165	32	M6×0.75	63	36	228	165	102	165	4.80
40328520	DBT50-H32-200	32	M6×0.75	63	36	263	200	137	200	5.00
40408513	DBT50-H40-135	40	M8×0.75	70	44	198	135	72	135	4.90
40408518	DBT50-H40-185	40	M8×0.75	70	44	248	185	122	185	5.45
40408522	DBT50-H40-225	40	M8×0.75	70	44	288	225	162	225	5.90
40408526	DBT50-H40-265	40	M8×0.75	70	44	328	265	202	265	6.30
40508506	DBT50-H50-65	50	M10×1.0	-	50	145	65	22	102	3.80
40508516	DBT50-H50-165	50	M10×1.0	-	56	245	165	122	202	5.35
40508521	DBT50-H50-215	50	M10×1.0	-	56	295	215	172	252	6.30
40508526	DBT50-H50-265	50	M10×1.0	-	56	345	265	222	302	7.20
40638506	DBT50-H63-65	63	M12×1.0	-	63	145	65	22	102	3.80
40638508	DBT50-H63-85	63	M12×1.0	-	63	165	85	42	122	4.30
40638516	DBT50-H63-165	63	M12×1.0	-	70	245	165	122	202	6.20
40638521	DBT50-H63-215	63	M12×1.0	-	70	295	215	172	252	7.75
40638526	DBT50-H63-265	63	M12×1.0	-	70	345	265	222	302	8.70
40638531-8	DBT50-H63-315 $\phi$ 80	63	M12×1.0	-	80	395	315	272	352	10.90
40808507	DBT50-H80-70	80	M20×1.5	-	80	150	70	27	102	4.00
40808511	DBT50-H80-115	80	M20×1.5	-	80	195	115	72	152	5.55
40808516	DBT50-H80-165	80	M20×1.5	-	80	245	165	122	202	7.25
40808521	DBT50-H80-215	80	M20×1.5	-	80	295	215	172	252	9.00
40808526	DBT50-H80-265	80	M20×1.5	-	80	345	265	222	302	10.75
40808531	DBT50-H80-315	80	M20×1.5	-	80	395	315	272	352	12.45
41008510	DBT50-H100-100	100	M24×2.0	-	100	200	100	62	-	5.95
41008585	DBT50-H100-150	100	M24×2.0	-	100	250	150	112	-	8.60
41008520	DBT50-H100-200	100	M24×2.0	-	100	300	200	162	-	11.55
41008525	DBT50-H100-250	100	M24×2.0	-	100	350	250	212	-	14.50

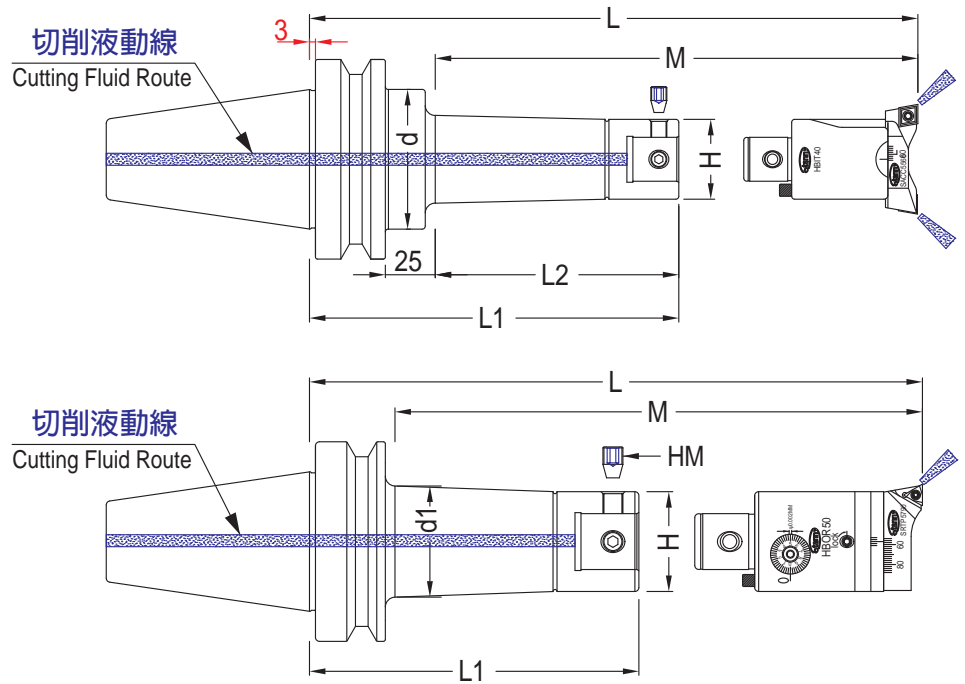


**MAS403 BT 搪孔刀柄**  
**MAS403 BT Taper Shank**

訂貨編號 Order No.	規格 Model	H	HM	d	d1	L	L1	L2	M	淨重 N.W.
40251303	BT30-H25-35	25	M5×0.5	-	25	85	35	9	60	0.40
40251305	BT30-H25-55	25	M5×0.5	-	25	105	55	29	75	0.49
40321303	BT30-H32-35	32	M6×0.75	-	32	98	35	9	75	0.45
40321305	BT30-H32-55	32	M6×0.75	-	32	118	55	31.5	93	0.54
40401303	BT30-H40-35	40	M8×0.75	-	40	98	35	14	75	0.45
40401305	BT30-H40-55	40	M8×0.75	-	40	118	55	32	93	0.63
40501304	BT30-H50-45	50	M10×1.0	-	50	125	45	23	93	0.57
40631306	BT30-H63-65	63	M12×1.0	-	63	145	65	43	93	0.91

訂貨編號 Order No.	規格 Model	H	HM	d	d1	L	L1	L2	M	淨重 N.W.
40251404	BT40-H25-40	25	M5×0.5	-	25	90	40	8	60	1.00
40251407	BT40-H25-72	25	M5×0.5	-	29	122	72	42.5	90	1.12
40251410	BT40-H25-100	25	M5×0.5	-	29	150	100	71	123	1.24
40251412	BT40-H25-127	25	M5×0.5	-	29	177	127	98	145	1.38
40321404	BT40-H32-40	32	M6×0.75	-	32	103	40	8	75	1.00
40321407	BT40-H32-72	32	M6×0.75	-	36	135	72	41	102	1.20
40321412	BT40-H32-120	32	M6×0.75	-	36	183	120	89	150	1.55
40321413	BT40-H32-135	32	M6×0.75	-	36	198	135	104	165	1.66
40401404	BT40-H40-40	40	M8×0.75	-	40	103	40	11	73	1.05
40401407	BT40-H40-72	40	M8×0.75	-	44	135	72	42	102	1.31
40401413	BT40-H40-130	40	M8×0.75	-	44	193	130	99	162	1.95
40401418	BT40-H40-185	40	M8×0.75	-	44	248	185	154	212	2.52
40501405	BT40-H50-50	50	M10×1.0	-	50	130	50	22	102	1.15
40501409	BT40-H50-90	50	M10×1.0	-	56	170	90	60.5	142	1.72
40501413	BT40-H50-130	50	M10×1.0	-	56	210	130	100.5	182	2.20
40501417	BT40-H50-170	50	M10×1.0	-	56	250	170	140.5	222	3.07
40631405	BT40-H63-55	63	M12×1.0	-	63	135	55	28	102	1.24
40631410	BT40-H63-105	63	M12×1.0	-	63	185	105	78	152	2.45
40631415	BT40-H63-155	63	M12×1.0	-	63	235	155	128	202	3.54





**MAS403 BT 搪孔刀柄**  
**MAS403 BT Taper Shank**

訂貨編號 Order No.	規格 Model	H	HM	d	d1	L	L1	L2	M	淨重 N.W.
40251511	BT50-H25-115	25	M5×0.5	50	29	165	115	52	102	4.15
40251514	BT50-H25-140	25	M5×0.5	50	29	190	140	77	127	4.30
40251516	BT50-H25-165	25	M5×0.5	50	29	215	165	102	152	4.40
40321513	BT50-H32-135	32	M6×0.75	63	36	198	135	72	135	4.55
40321516	BT50-H32-165	32	M6×0.75	63	36	228	165	102	165	4.80
40321520	BT50-H32-200	32	M6×0.75	63	36	263	200	137	200	5.00
40401513	BT50-H40-135	40	M8×0.75	70	44	198	135	72	135	4.90
40401518	BT50-H40-185	40	M8×0.75	70	44	248	185	122	185	5.45
40401522	BT50-H40-225	40	M8×0.75	70	44	288	225	162	225	5.90
40401526	BT50-H40-265	40	M8×0.75	70	44	328	265	202	265	6.30
40501506	BT50-H50-65	50	M10×1.0	-	50	145	65	22	102	3.80
40501516	BT50-H50-165	50	M10×1.0	-	56	245	165	122	202	5.35
40501521	BT50-H50-215	50	M10×1.0	-	56	295	215	172	252	6.30
40501526	BT50-H50-265	50	M10×1.0	-	56	345	265	222	302	7.20
40631506	BT50-H63-65	63	M12×1.0	-	63	145	65	22	102	3.80
40631508	BT50-H63-85	63	M12×1.0	-	63	165	85	42	122	4.30
40631516	BT50-H63-165	63	M12×1.0	-	70	245	165	122	202	6.20
40631521	BT50-H63-215	63	M12×1.0	-	70	295	215	172	252	7.75
40631526	BT50-H63-265	63	M12×1.0	-	70	345	265	222	302	8.70
※ 40631531-8	BT50-H63-315 $\phi$ 80	63	M12×1.0	-	80	395	315	272	352	10.90
※ 40801507	BT50-H80-70	80	M20×1.5	-	80	150	70	27	102	4.00
※ 40801511	BT50-H80-115	80	M20×1.5	-	80	195	115	72	152	5.55
※ 40801516	BT50-H80-165	80	M20×1.5	-	80	245	165	122	202	7.25
※ 40801521	BT50-H80-215	80	M20×1.5	-	80	295	215	172	252	9.00
※ 40801526	BT50-H80-265	80	M20×1.5	-	80	345	265	222	302	10.75
※ 40801531	BT50-H80-315	80	M20×1.5	-	80	395	315	272	352	12.45
※ 41001510	BT50-H100-100	100	M24×2.0	-	100	200	100	62	-	5.95
※ 41001515	BT50-H100-150	100	M24×2.0	-	100	250	150	112	-	8.60
※ 41001520	BT50-H100-200	100	M24×2.0	-	100	300	200	162	-	11.55
※ 41001525	BT50-H100-250	100	M24×2.0	-	100	350	250	212	-	14.50

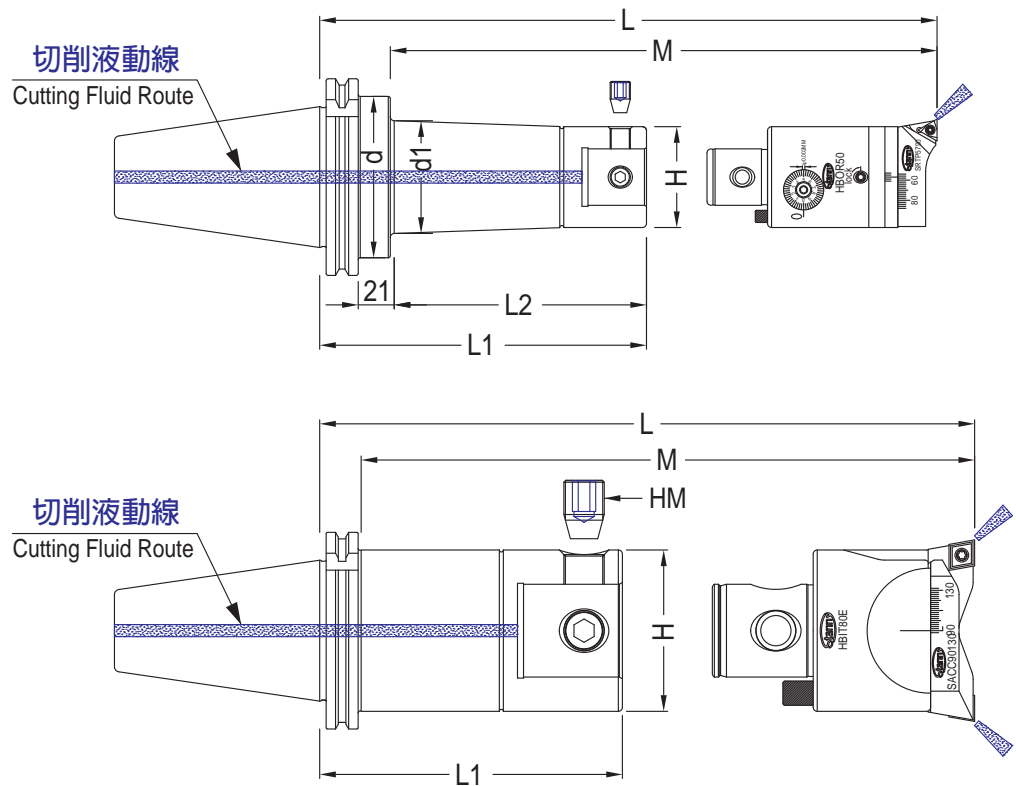
※庫存售完改DBT系列

※BT series sold out will change to DBT series.

DIN69871A 搪孔刀柄  
DIN69871A Taper Shank

訂貨編號 Order No.	規格 Model	H	HM	d	d1	L	L1	L2	M	淨重 N.W.
40252303	ISO30-H25-30	25	M5×0.5	-	25	80	30	9	60	0.39
40322303	ISO30-H32-35	32	M6×0.75	-	32	98	35	14	75	0.42
40402303	ISO30-H40-35	40	M8×0.75	-	40	98	35	14	75	0.44
40502305	ISO30-H50-55	50	M10×1.0	-	50	135	55	35	112	0.67

訂貨編號 Order No.	規格 Model	H	HM	d	d1	L	L1	L2	M	淨重 N.W.
40252403	ISO40-H25-30	25	M5×0.5	-	25	80	30	10	60	0.83
40252406	ISO40-H25-65	25	M5×0.5	-	28	115	65	41	90	0.96
40252410	ISO40-H25-100	25	M5×0.5	-	29	150	100	79	125	1.15
40322403	ISO40-H32-35	32	M6×0.75	-	32	98	35	15	75	0.86
40322406	ISO40-H32-65	32	M6×0.75	-	35	128	65	42	102	1.05
40322408	ISO40-H32-84	32	M6×0.75	-	36	147	84	61	123	1.15
40322411	ISO40-H32-115	32	M6×0.75	-	36	178	115	92	152	1.40
40402403	ISO40-H40-35	40	M8×0.75	-	40	98	35	15	75	0.88
40402406	ISO40-H40-65	40	M8×0.75	-	43	128	65	43	102	1.17
40402410	ISO40-H40-104	40	M8×0.75	-	44	167	104	82	143	1.50
40402416	ISO40-H40-165	40	M8×0.75	-	44	228	165	143	202	2.12
40502405	ISO40-H50-50	50	M10×1.0	-	50	130	50	30	102	1.08
40502410	ISO40-H50-104	50	M10×1.0	-	50	184	104	84	163	1.81
40502415	ISO40-H50-150	50	M10×1.0	-	50	230	150	130	202	2.47
40632406	ISO40-H63-60	63	M12×1.0	-	63	140	60	40	115	1.23
40632411	ISO40-H63-110	63	M12×1.0	-	63	190	110	90	165	2.32



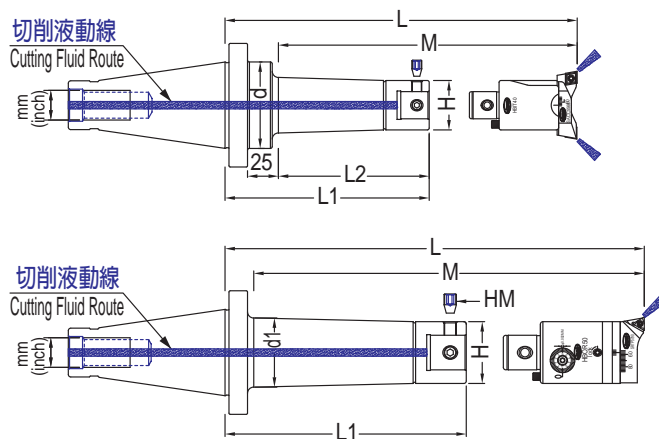
**DIN69871A 搪孔刀柄**  
**DIN69871A Taper Shank**

訂貨編號 Order No.	規格 Model	H	HM	d	d1	L	L1	L2	M	淨重 N.W.
40252509	ISO50-H25-92	25	M5×0.5	80	29	142	92	52	102	3.45
40252511	ISO50-H25-117	25	M5×0.5	80	29	167	117	77	127	3.55
40252514	ISO50-H25-142	25	M5×0.5	80	29	192	142	102	152	3.65
40322511	ISO50-H32-112	32	M6×0.75	80	36	175	112	72	135	3.65
40322514	ISO50-H32-144	32	M6×0.75	80	36	207	144	104	165	3.90
40322517	ISO50-H32-176	32	M6×0.75	80	36	239	176	136	200	4.10
40402511	ISO50-H40-112	40	M8×0.75	80	44	175	112	72	135	3.85
40402516	ISO50-H40-162	40	M8×0.75	80	44	225	162	122	185	4.40
40402520	ISO50-H40-202	40	M8×0.75	80	44	265	202	162	225	4.85
40402524	ISO50-H40-242	40	M8×0.75	80	44	305	242	202	265	5.30
40502505	ISO50-H50-50	50	M10×1.0	80	50	130	50	18	98	3.35
40502516	ISO50-H50-162	50	M10×1.0	80	56	242	162	125	202	3.15
40502521	ISO50-H50-212	50	M10×1.0	80	56	292	212	175	252	5.80
40502526	ISO50-H50-262	50	M10×1.0	80	56	342	262	225	302	6.60
40632506	ISO50-H63-65	63	M12×1.0	80	63	145	65	28	108	3.50
40632516	ISO50-H63-162	63	M12×1.0	80	70	242	162	125	202	5.70
40632521	ISO50-H63-212	63	M12×1.0	80	70	292	212	175	252	6.95
40632526	ISO50-H63-262	63	M12×1.0	80	70	342	262	225	302	8.15
40802507	ISO50-H80-70	80	M20×1.5	80	-	150	70	50	125	3.70
40802510	ISO50-H80-100	80	M20×1.5	80	-	180	100	80	152	4.72
40802515	ISO50-H80-150	80	M20×1.5	80	-	230	150	130	202	6.44
40802520	ISO50-H80-200	80	M20×1.5	80	-	280	200	180	252	8.16
40802525	ISO50-H80-250	80	M20×1.5	80	-	330	250	230	302	9.88
40802530	ISO50-H80-300	80	M20×1.5	80	-	380	300	280	352	11.60
41002510	ISO50-H100-100	100	M24×2.0	-	100	200	105	85	-	6.20
41002515	ISO50-H100-150	100	M24×2.0	-	100	250	150	130	-	8.50
41002520	ISO50-H100-200	100	M24×2.0	-	100	300	200	180	-	11.35
41002525	ISO50-H100-250	100	M24×2.0	-	100	350	250	230	-	14.30



# DIN2080(NT)

## 搪孔刀柄 Taper Shank for Boring System



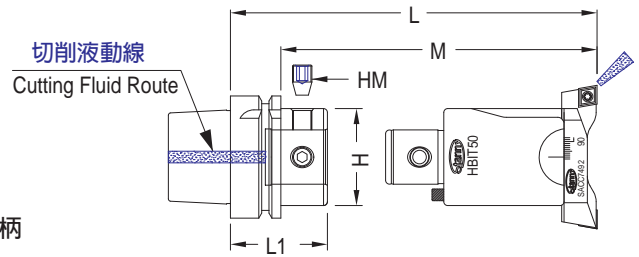
**DIN2080 (mm) 搪孔刀柄**  
**DIN2080 (mm) Taper Shank**

訂貨編號 Order No.	規格 Model	H	HM	d	d1	L	L1	L2	M	淨重 N.W.
40250304M	ISO30-H25-40	25	M5×0.5	-	25	90	40	22	72	0.40
40320304M	ISO30-H32-40	32	M6×0.75	-	32	103	40	27	90	0.45
40400304M	ISO30-H40-40	40	M8×0.75	-	40	103	40	30	90	0.55
40500305M	ISO30-H50-50	50	M10×1.0	-	50	130	50	42	120	0.75
40630306M	ISO30-H63-60	63	M12×1.0	-	63	140	60	52	130	1.13
40250406M	ISO40-H25-60	25	M5×0.5	-	29	122	60	45	95	0.95
40320406M	ISO40-H32-60	32	M6×0.75	-	37	135	60	42	102	1.03
40400406M	ISO40-H40-60	40	M8×0.75	-	44	135	60	43	102	1.14
40500403M	ISO40-H50-35	50	M10×1.0	-	50	115	35	22	102	0.93
40630405M	ISO40-H63-55	63	M12×1.0	-	63	140	55	42	102	1.40
40250511M	ISO50-H25-115	25	M5×0.5	50	29	165	115	72	122	3.40
40320513M	ISO50-H32-135	32	M6×0.75	63	36	198	135	92	155	3.90
40400516M	ISO50-H40-165	40	M8×0.75	70	45	248	165	122	185	4.60
40500505M	ISO50-H50-50	50	M10×1.0	-	50	130	50	27	102	3.20
40500520M	ISO50-H50-200	50	M10×1.0	-	56	280	200	172	252	5.50
40630506M	ISO50-H63-65	63	M12×1.0	-	63	145	65	37	122	3.50
40630524M	ISO50-H63-245	63	M12×1.0	-	70	325	245	222	302	7.90
40800507M	ISO50-H80-70	80	M20×1.5	-	80	150	70	47	125	3.90
40800521M	ISO50-H80-215	80	M20×1.5	-	80	295	215	192	272	8.90
41000510M	ISO50-H100-100	100	M24×2.0	-	100	200	100	80	-	6.20
41000520M	ISO50-H100-200	100	M24×2.0	-	100	300	200	180	-	11.90

**DIN2080 (inch) 搪孔刀柄**  
**DIN2080 (inch) Taper Shank**

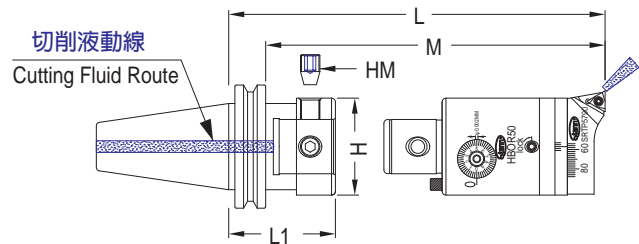
訂貨編號 Order No.	規格 Model	H	HM	d	d1	L	L1	L2	M	淨重 N.W.
40250304I	ISO30-H25-40	25	M5×0.5	-	25	90	40	22	72	0.40
40320304I	ISO30-H32-40	32	M6×0.75	-	32	103	40	27	90	0.45
40400304I	ISO30-H40-40	40	M8×0.75	-	40	103	40	30	90	0.55
40500305I	ISO30-H50-50	50	M10×1.0	-	50	130	50	42	120	0.75
40630306I	ISO30-H63-60	63	M12×1.0	-	63	140	60	52	130	1.13
40250406I	ISO40-H25-60	25	M5×0.5	-	29	122	60	45	95	0.95
40320406I	ISO40-H32-60	32	M6×0.75	-	37	135	60	42	102	1.03
40400406I	ISO40-H40-60	40	M8×0.75	-	44	135	60	43	102	1.14
40500403I	ISO40-H50-35	50	M10×1.0	-	50	115	35	22	102	0.93
40630405I	ISO40-H63-55	63	M12×1.0	-	63	140	55	42	102	1.40
40250511I	ISO50-H25-115	25	M5×0.5	50	29	165	115	72	122	3.40
40320513I	ISO50-H32-135	32	M6×0.75	63	36	198	135	92	155	3.90
40400516I	ISO50-H40-165	40	M8×0.75	70	45	248	165	122	185	4.60
40500505I	ISO50-H50-50	50	M10×1.0	-	50	130	50	27	102	3.20
40500520I	ISO50-H50-200	50	M10×1.0	-	56	280	200	172	252	5.50
40630506I	ISO50-H63-65	63	M12×1.0	-	63	145	65	37	122	3.50
40630524I	ISO50-H63-245	63	M12×1.0	-	70	325	245	222	302	7.90
40800507I	ISO50-H80-70	80	M20×1.5	-	80	150	70	47	125	3.90
40800521I	ISO50-H80-215	80	M20×1.5	-	80	295	215	192	272	8.90
41000510I	ISO50-H100-100	100	M24×2.0	-	100	200	100	80	-	6.20
41000520I	ISO50-H100-200	100	M24×2.0	-	100	300	200	180	-	11.90

**DIN69893A、ANSI、直柄、搪孔刀柄**  
**DIN69893A, ANSI, Straight Shank, Taper Shank for Boring System**



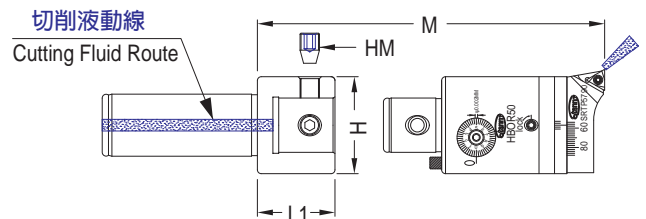
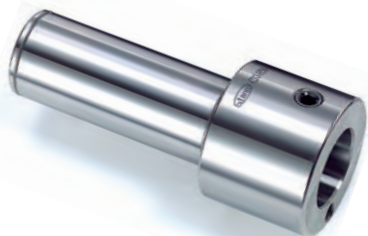
**DIN69893A 搪孔刀柄**  
**DIN69893A Shank**

訂貨編號 Order No.	規格 Model	H	HM	L	L1	M	淨重 N.W.
40254604	HSK63-H25-40	25	M5×0.5	90	40	60	0.66
40254608	HSK63-H25-85	25	M5×0.5	135	85	102	0.90
40324604	HSK63-H32-40	32	M6×0.75	103	40	75	0.67
40324609	HSK63-H32-95	32	M6×0.75	158	95	126	1.10
40404604	HSK63-H40-45	40	M8×0.75	108	45	80	0.74
40404612	HSK63-H40-120	40	M8×0.75	183	120	152	1.60
40504605	HSK63-H50-57	50	M10×1.0	137	57	110	1.15
40504612	HSK63-H50-120	50	M10×1.0	200	120	172	1.90
40634606	HSK63-H63-67	63	M12×1.0	147	67	102	1.16
40634907	HSK100-H63-75	63	M12×1.0	155	75	122	2.78
40634915	HSK100-H63-155	63	M12×1.0	235	155	200	4.80
40634920	HSK100-H63-205	63	M12×1.0	285	205	250	6.06
40804908	HSK100-H80-80	80	M20×1.5	160	80	130	3.30
40804910	HSK100-H80-100	80	M20×1.5	180	100	150	4.00
40804915	HSK100-H80-155	80	M20×1.5	235	155	202	5.90
40804920	HSK100-H80-205	80	M20×1.5	285	205	252	7.60
41004911	HSK100-H100-115	100	M24×2.0	215	115	170	5.60



**ANSI 搪孔刀柄**  
**ANSI Taper Shank**

訂貨編號 Order No.	規格 Model	H	HM	L	L1	M	淨重 N.W.
40253406	CAT40-H25-63	25	M5×0.5	113	63	90	0.96
40323406	CAT40-H32-63	32	M6×0.75	126	63	102	1.04
40403406	CAT40-H40-63	40	M8×0.75	126	63	102	1.14
40503405	CAT40-H50-55	50	M10×1.0	135	55	102	1.11
40503505	CAT50-H50-50	50	M10×1.0	130	50	102	2.85
40633506	CAT50-H63-65	63	M12×1.0	145	65	122	3.25
40803507	CAT50-H80-70	80	M20×1.5	150	70	125	3.45

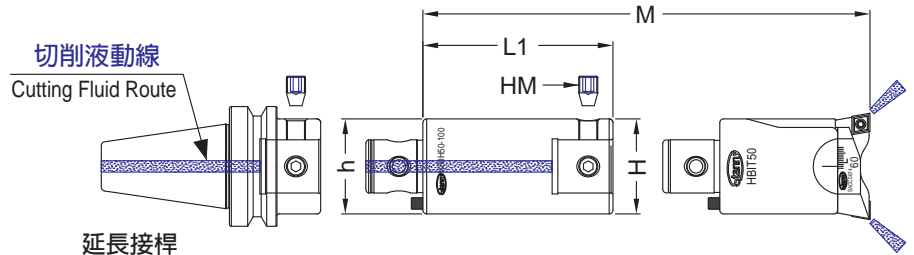


**直柄**  
**Straight Shank**

訂貨編號 Order No.	規格 Model	C	HM	H	L1	M	淨重 N.W.
40032503	C32-H25-35	32	M5×0.5	25	35	85	0.62
40033204	C32-H32-40	32	M6×0.75	32	40	102	0.67
40034004	C32-H40-40	32	M8×0.75	40	40	102	0.69
40035004	C32-H50-40	32	M10×1.0	50	40	120	0.86
40036305	C32-H63-55	32	M12×1.0	63	55	135	1.41

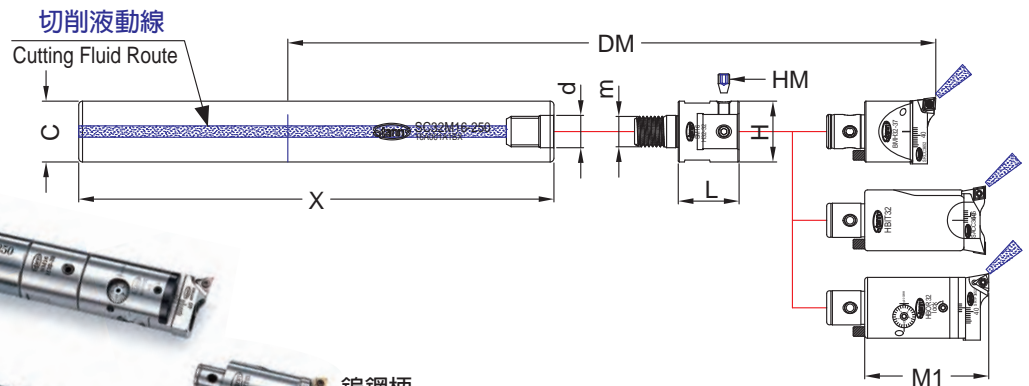
## 延長接桿、鎢鋼柄、接桿

## Extension Spacer, Carbide Shank, Shank for Boring System



延長接桿  
Extension Spacer

訂貨編號 Order No.	規格 Model	h	H	HM	L1	M	淨重 N.W.
42252502	h25H25-25	25	25	M5×0.5	25	75	0.09
42252505	h25H25-50	25	25	M5×0.5	50	100	0.18
42323203	h32H32-32	32	32	M6×0.75	32	95	0.18
42323206	h32H32-64	32	32	M6×0.75	64	125	0.37
42404004	h40H40-40	40	40	M8×0.75	40	102	0.37
42404008	h40H40-80	40	40	M8×0.75	80	142	0.92
42505005	h50H50-50	50	50	M10×1.0	50	130	0.69
42505010	h50H50-100	50	50	M10×1.0	100	180	1.41
42636306	h63H63-63	63	63	M12×1.0	63	143	1.40
42636312	h63H63-126	63	63	M12×1.0	126	205	2.77
42808008	h80H80-80	80	80	M20×1.5	80	160	2.80
42808016	h80H80-160	80	80	M20×1.5	160	240	5.60
42101010	h100H100-100	100	100	M24×2.0	100	200	5.75
42101020	h100H100-200	100	100	M24×2.0	200	300	11.30



鎢鋼柄  
Carbide Shank

訂貨編號 Order No.	規格 Model	C	X	d	接桿 Shank	淨重 N.W.
45072515	SC25M12-150	25	150	12.5	SM12H25-25	0.93
45072520	SC25M12-200		200			1.26
45072525	SC25M12-250		250			1.58
45072530	SC25M12-300	32	300	17	SM16H32-32	1.91
45073215	SC32M16-150		150			1.50
45073220	SC32M16-200		200			2.05
45073225	SC32M16-250		250			2.59
45073230	SC32M16-300		300			3.15

接桿  
Shank

訂貨編號 Order No.	規格 Model	H	HM	m	L	鎢鋼柄 Carbide Shank	M1			深度 DM	淨重 N.W.
							BMH	HBIT	HBOR		
45081225	SM12H25-25	25	M5×0.5	M12	25	SC25M12	30	50	50	175	0.09
45081632	SM16H32-32	32	M6×0.75	M16	32	SC32M16	37	63	63	224	0.18

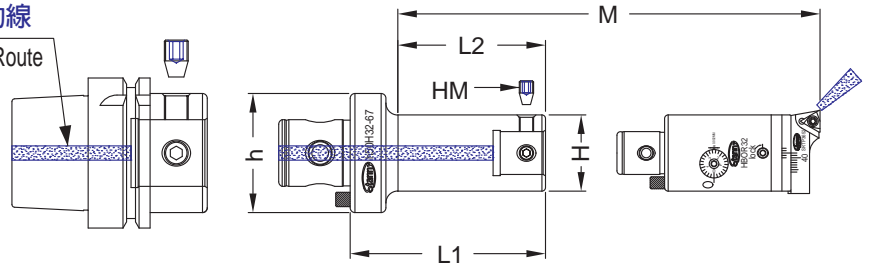


# 縮徑接桿

## Stepped Spacer for Boring System



切削液動線  
Cutting Fluid Route



### 縮徑接桿 Stepped Spacer

訂貨編號 Order No.	規格 Model	h	H	HM	L1	L2	M	淨重 N.W.
43322503	h32H25-25	32	25	M5×0.5	32	23	75	0.14
43322505	h32H25-48	32	25	M5×0.5	57	48	100	0.22
43402504	h40H25-30	40	25	M5×0.5	40	28	75	0.24
43402506	h40H25-50	40	25	M5×0.5	65	53	105	0.33
43403204	h40H32-30	40	32	M6×0.75	40	28	92	0.28
43403207	h40H32-60	40	32	M6×0.75	72	60	123	0.46
43502505	h50H25-35	50	25	M5×0.5	50	30	85	0.44
43502507	h50H25-60	50	25	M5×0.5	75	55	110	0.53
43503205	h50H32-35	50	32	M6×0.75	50	30	98	0.45
43503208	h50H32-67	50	32	M6×0.75	82	62	130	0.64
43504005	h50H40-35	50	40	M8×0.75	50	33	98	0.55
43504009	h50H40-75	50	40	M8×0.75	90	73	138	1.10
43632506	h63H25-40	63	25	M5×0.5	63	38	90	0.73
43632509	h63H25-70	63	25	M5×0.5	93	68	120	0.84
43632511	h63H25-90	63	25	M5×0.5	113	88	140	0.91
43633206	h63H32-40	63	32	M6×0.75	63	38	102	0.83
43633210	h63H32-80	63	32	M6×0.75	107	82	145	1.08
43633212	h63H32-100	63	32	M6×0.75	127	102	165	1.21
43634006	h63H40-40	63	40	M8×0.75	63	40	102	0.94
43634011	h63H40-90	63	40	M8×0.75	113	90	153	1.64
43634014	h63H40-120	63	40	M8×0.75	143	120	183	2.04
43635006	h63H50-40	63	50	M10×1.0	63	44	120	1.09
43635012	h63H50-100	63	50	M10×1.0	123	104	180	1.95
43635016	h63H50-140	63	50	M10×1.0	163	144	220	2.53
43802508	h80H25-50	80	25	M5×0.5	80	50	100	1.45
43802511	h80H25-80	80	25	M5×0.5	110	80	130	1.6
43802513	h80H25-100	80	25	M5×0.5	130	100	150	1.70
43803208	h80H32-50	80	32	M6×0.75	80	50	112	1.55
43803212	h80H32-90	80	32	M6×0.75	120	90	150	1.85
43803214	h80H32-115	80	32	M6×0.75	145	115	175	2.05
43804008	h80H40-50	80	40	M8×0.75	80	50	112	1.70
43804013	h80H40-100	80	40	M8×0.75	130	100	162	2.20
43804016	h80H40-130	80	40	M8×0.75	160	130	190	2.50
43805008	h80H50-50	80	50	M10×1.0	80	50	130	1.95
43805015	h80H50-120	80	50	M10×1.0	150	120	200	3.10
43805018	h80H50-150	80	50	M10×1.0	180	150	230	3.55
43806308	h80H63-60	80	63	M12×1.0	80	60	140	2.30
43806316	h80H63-140	80	63	M12×1.0	160	140	220	4.05
43806320	h80H63-186	80	63	M12×1.0	206	186	265	5.05