



曜陞機械有限公司

YAO SHENG MACHINERY CO., LTD.

曜陞拉床
廣泛的機種系列
高精密！高效能！

YAO SHENG BROACHING MACHINE
A Wide Range of Models to Select
High Precision! High Efficiency!



拉床 Broaching Machine
拉刀 Broach
成型工具 Forming Tool

曜陞拉床 廣泛的機種系列 高精密！高效能！

秉持「研發創新，完善服務」的曜陞機械公司，已成功的開發出最廣泛系列的拉床，應用於各種零件的拉削作業。曜陞拉床以高精密密度、高效率、最低故障率而贏得國內外客戶一致的口碑。曜陞公司以優異的技術背景，將持續開發更高性能的拉床，以幫助客戶創造競爭優勢。

YAO SHENG BROACHING MACHINE A Wide Range of Models to Select High Precision! High Efficiency!

Based on the Company's concepts of "Constant R & D. Comprehensive Service", YAO SHENG has successfully developed the most comprehensive range of broaching machines for application in various parts broaching operations. Thanks to their outstanding features of high precision, high efficiency and minimum trouble, YAO SHENG broaching machines have been fully recognized by domestic and overseas customers. With our superior technical background, YAO SHENG will constantly develop higher performance of broaching machine to help our customers stay competitive.

近年積極開發歐洲市場，已通過德國 TUV 認證。

In recent years, we have actively developed the European market and have passed the German TUV certification.

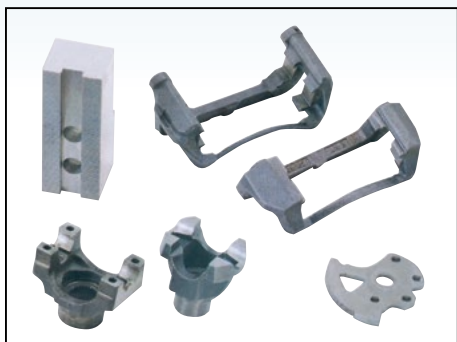


CERTIFICATE
of Conformity
EC Council Directive
2006/42/EC Machinery



立式油壓拉床（內孔型、平面型合併）

Vertical Hydraulic Broaching Machine (Universal Type)



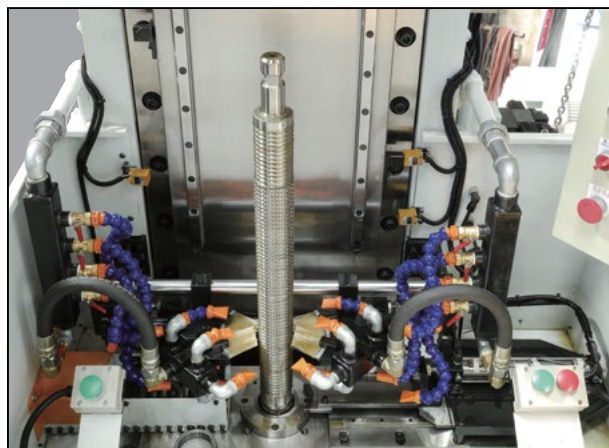
機器規格 Specifications	TUVB-310	TUVB-510	TUVB-1010	TUVB-1510
拉削力 Broaching force (ton)	3	5	10	15
拉削行程 Broaching stroke (mm)	600~800	1000~1300	1000~1600	1000~1600
進刀速度 Range of feed speed (m/min)	0~8	0~8	0~8	0~8
退刀速度 Range of retract speed (m/min)	0~12	0~12	0~12	0~12
加工物外徑 Max. workpiece diameter (mm)	Ø250	Ø350	Ø350	Ø350
主油壓馬達 Main hydraulic pump motor (HP)	7.5HP x 6P x 1	10HP x 6P x 1	15HP x 6P x 1	20HP x 6P x 1
切削液馬達 Cutting oil pump motor (HP)	1/2HP x 6P x 1	1/2HP x 6P x 1	1HP x 6P x 1	1HP x 6P x 1
主油壓缸規格 Hydraulic cylinder size (mm)	Ø90 x Ø70 x (650~850) st	Ø100 x Ø70 x (1050~1350)st	Ø125 x Ø90 x (1050~1650)st	Ø150 x Ø100 x (1050~1650)st
工作台高度 Height of table (mm)	1500~1700	1900~2200	2000~2500	2000~2500
佔地尺寸 (寬 x 深 x 高) Machine dimensions (WxLxH) (mm)	1900 x 2300 x (2300~2700)	2100 x 2500 x (3300~3900)	2200 x 2800 x (3400~4600)	2400 x 2900 x (3400~4600)
機器總重 Machine weight (ton)	3~4	5~8	7~9	7.5~9.5

★以上規格僅供參考，詳細規格以報價單為主。

立式油壓拉床（內孔型自動進退料）含自動提刀護送

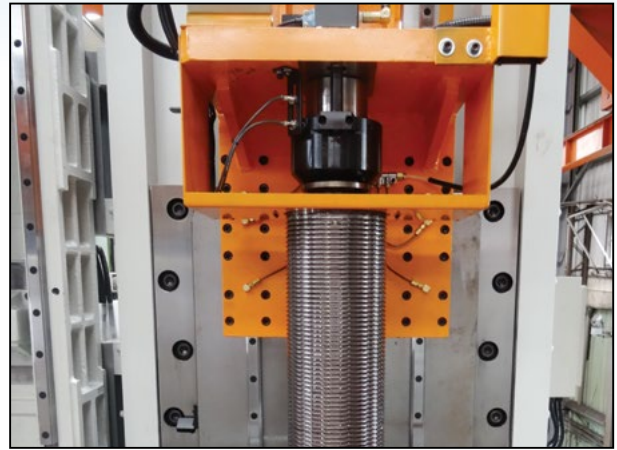
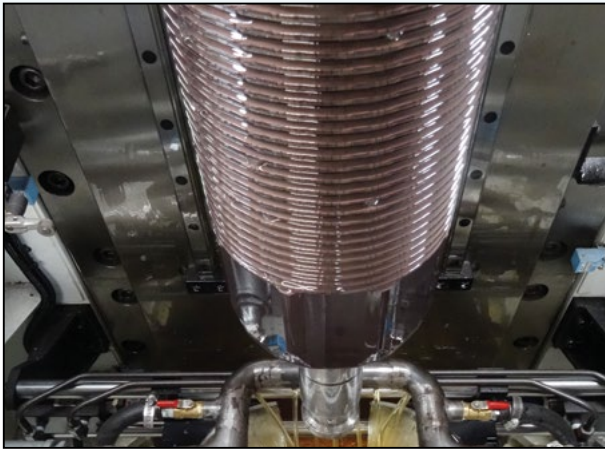
Vertical Hydraulic Broaching Machine

(Inner-hole Type Self Feed and Retreat with Automatic Broach Elevator)



機器規格 Specifications	TUVB-560	TUVB-1060	TUVB-1560	TUVB-2060	TUVB-3060	TUVB-4060
拉削力 Broaching force (ton)	5	10	15	20	30	40
拉削行程 Broaching stroke (mm)	1000~1500	1000~1600	1000~1600	1500~1900	1500~1900	1500~1900
進刀速度 Range of feed speed (m/min)	0~8	0~8	0~8	0~8	0~8	0~8
退刀速度 Range of retract speed (m/min)	0~12	0~12	0~12	0~10	0~10	0~10
加工物外徑 Max. workpiece diameter (mm)	Ø350	Ø350	Ø350	Ø400	Ø400	Ø400
主油壓馬達 Main hydraulic pump motor (HP)	10HP x 6P x 1 5 HP x 6P x 1	15HP x 6P x 1 5 HP x 6P x 1	20HP x 6P x 1 5 HP x 6P x 1	30HP x 6P x 1 7.5HP x 6P x 1	40HP x 6P x 1 7.5 HP x 6P x 1	60 HP x 6P x 1 7.5 HP x 6P x 1
切削液馬達 Cutting oil pump motor (HP)	1HP x 6P x 1	1HP x 6P x 2	1HP x 6P x 2	1HP x 6P x 2	1HP x 6P x 2	1HP x 6P x 2
主油壓缸規格 Hydraulic cylinder size (mm)	Ø100 x Ø70 x (1050~1550)st	Ø125 x Ø90 x (1050~1650)st	Ø150 x Ø100 x (1050~1650)st	Ø180 x Ø140 x (1550~1950)st	Ø220 x Ø180 x (1550~1950)st	Ø280 x Ø180 x (1550~1950)st
工作台面高度 Height of table (mm)	1900~2200	2100~2600	2100~2600	2600~3000	2600~3000	2800~3200
佔地尺寸 (寬 x 深 x 高) Machine dimensions (WxLxH) (mm)	1900 x 2300 x (3400~4000)	2500 x 2900 x (5600~6200)	2500 x 2900 x (5600~6200)	2600 x 3000 x (6500~7300)	2900 x 3200 x (6500~7300)	2900 x 3500 x (6600~7400)
機器總重 Machine weight (ton)	7~9	8~10	8~12	14~16	16~18	17~19

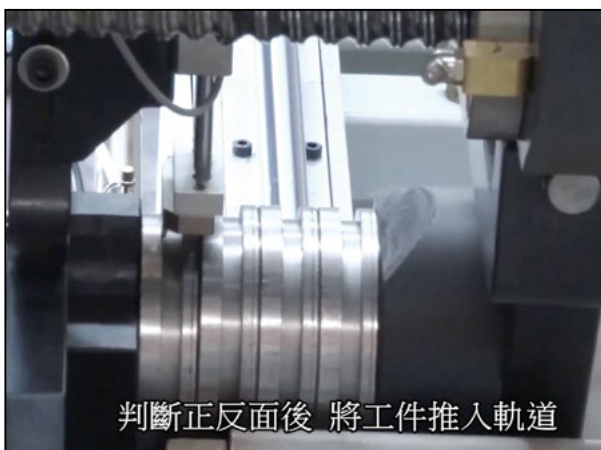
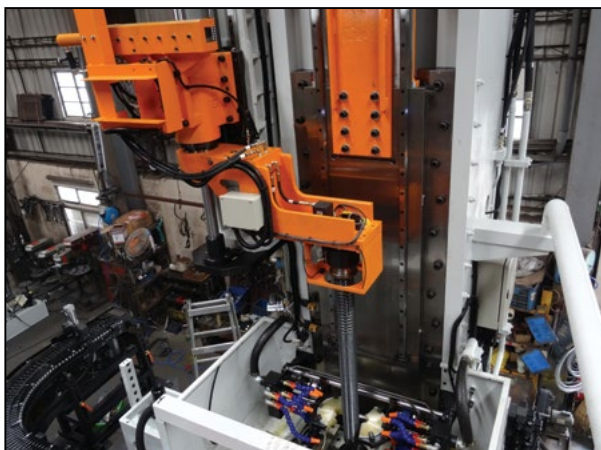
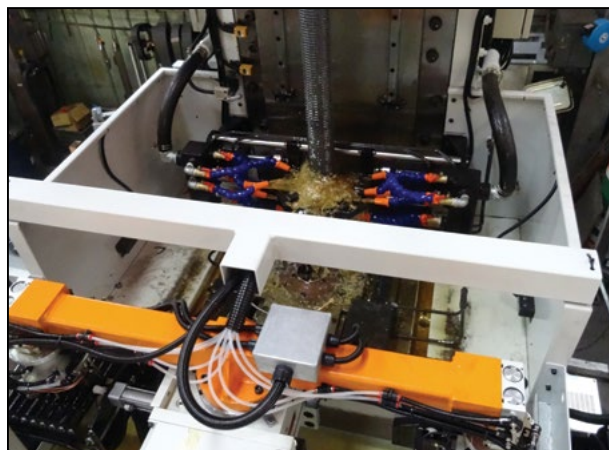
★以上規格僅供參考，詳細規格以報價單為主。



立式伺服拉床 (內孔型自動進退料) 含自動提刀護送及換刀機構

Vertical Servo Broaching Machine

(Inner-hole Type Self Feed and Retreat with Automatic Broach Elevator and Tool Changer)



機器規格 Specifications	TUVB-560	TUVB-1060	TUVB-2060
拉削力 Broaching force (ton)	5	10	20
拉削行程 Broaching stroke (mm)	1000~1500	1000~1600	1500~1900
進刀速度 Range of feed speed (m/min)	0~8	0~8	0~8
退刀速度 Range of retract speed (m/min)	0~12	0~12	0~10
加工物外徑 Max. workpiece diameter (mm)	Ø350	Ø350	Ø400
主伺服馬達 Main servo motor (kw)	7	15	22+5 比減速機
切削液馬達 Cutting oil pump motor (HP)	1HP x 6Px1	1HP x 6Px2	1HP x 6Px2
滾珠螺桿規格 Ball screw size (mm)	Ø55	Ø63	Ø80
工作台高度 Height of table (mm)	1900~2200	2100~2600	2600~3000
佔地尺寸 (寬 x 深 x 高) Machine dimensions (WxLxH) (mm)	2000 x 2500 x (3400~4000)	2600 x 3000 x (5600~6200)	2600 x 3400 x (6500~7300)
機器總重 Machine weight (ton)	7~9	8~10	14~16

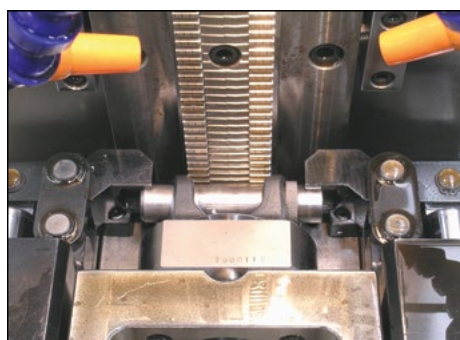
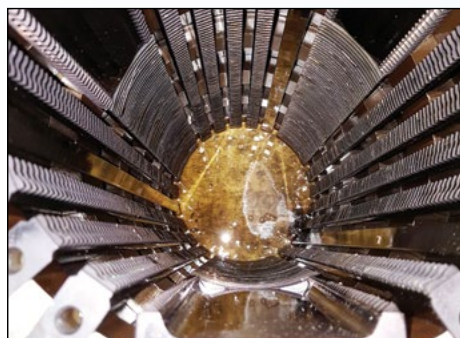
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立式油壓拉床（平面型自動進退料）

Vertical Hydraulic Broaching Machine

(Surface Type Self Feed and Retreat)

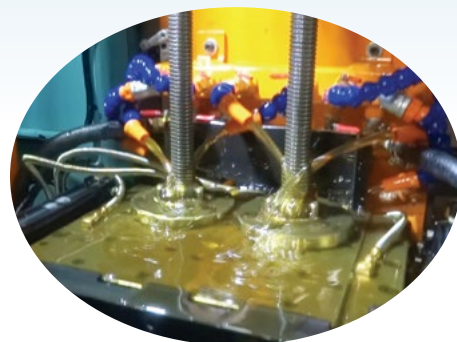
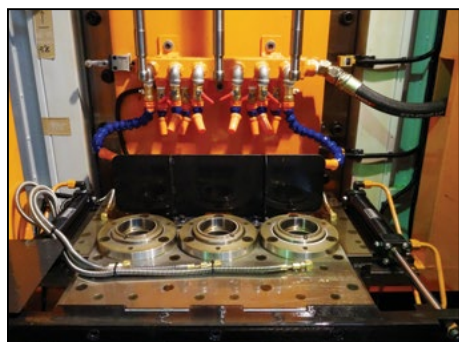


機器規格 Specifications	TUVB-550	TUVB-1050	TUVB-1550	TUVB-2050	TUVB-3050
拉削力 Broaching force (ton)	5	10	15	20	30
拉削行程 Broaching stroke (mm)	1000~1600	1000~1800	1000~1800	1500~1800	1500~2000
進刀速度 Range of feed speed (m/min)	0~10	0~10	0~10	0~8	0~8
退刀速度 Range of retract speed (m/min)	0~14	0~14	0~14	0~10	0~10
加工物外徑 Max. workpiece diameter (mm)	Ø200	Ø250	Ø250	Ø350	Ø500
主油壓馬達 Main hydraulic pump motor (HP)	10HP x 6P x 1 5HP x 6P x 1	15HP x 6P x 1 5HP x 6P x 1	20HP x 6P x 1 5HP x 6P x 1	30HP x 6P x 1 7.5HP x 6P x 1	40HP x 6P x 1 7.5 HP x 6P x 1
切削液馬達 Cutting oil pump motor (HP)	1HP x 6P x 1	1HP x 6Px2	1HP x 6P x 2	1HP x 6Px2	1HP x 6P x 2
主油壓缸規格 Hydraulic cylinder size (mm)	Ø100 x Ø70 x (1050~1650)st	Ø125 x Ø90 x (1050~1850)st	Ø150 x Ø100 x (1050~1850)st	Ø180 x Ø140 x (1550~1850)st	Ø220 x Ø180 x (1550~2050)st
工作台高度 Height of table (mm)	1700~2300	1700~2500	1700~2500	2300~2600	2500~3000
佔地尺寸 (寬 x 深 x 高) Machine dimensions (WxLxH) (mm)	2100 x 2500 x (3500~4700)	2500 x 2900 x (3600~5200)	2500 x 2900 x (3600~5200)	2600 x 3000 x (4600~5200)	2900 x 3200 x (4600~5600)
機器總重 Machine weight (ton)	7~10	8~11	8~12	9~12	10~15

★以上規格僅供參考，詳細規格以報價單為主。

立式油壓拉床 - 上拉式（自動進退料）含自動提刀護送

Vertical Hydraulic Broaching Machine - Table Up Broaching (Self Feed and Retreat with Automatic Broach Elevator)

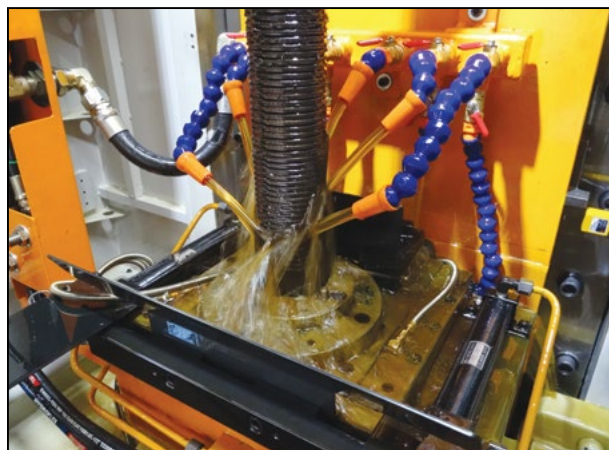


機器規格 Specifications	TUVB-518	TUVB-1018	TUVB-1518	TUVB-2018	TUVB-3018
拉削力 Broaching force (ton)	5	10	15	20	30
拉削行程 Broaching stroke (mm)	1000~1500	1000~1600	1000~1600	1000~1600	1200~1800
進刀速度 Range of feed speed (m/min)	0~8	0~8	0~8	0~8	0~8
退刀速度 Range of retreat speed (m/min)	0~12	0~12	0~12	0~10	0~10
加工物外徑 Max. workpiece diameter (mm)	Ø80	Ø120	Ø120	Ø150	Ø180
主油壓馬達 Main hydraulic pump motor (HP)	10HP x 6P x 1 5 HP x 6P x 1	15HP x 6P x 1 5 HP x 6P x 1	20HP x 6P x 1 5 HP x 6P x 1	30HP x 6P x 1 7.5HP x 6P x 1	40HP x 6P x 1 7.5 HP x 6P x 1
切削液馬達 Cutting oil pump motor (HP)	1HP x 6P x 2	1HP x 6P x 2	1HP x 6P x 2	1HP x 6P x 2	1HP x 6P x 2
主油壓缸規格 Hydraulic cylinder size (mm)	Ø100 x Ø70 x (1050~1550)st	Ø125 x Ø90 x (1050~1650)st	Ø150 x Ø100 x (1050~1650)st	Ø180 x Ø140 x (1050~1650)st	Ø220 x Ø180 x (1250~1850)st
工作台高度 Height of table (mm)	1000~1200	1000~1200	1000~1200	1000~1200	1000~1200
佔地尺寸 (寬 x 深 x 高) Machine dimensions (WxLxH) (mm)	2000 x 3000 x (3700~4700)	2100 x 3000 x (3700~4900)	2100 x 3000 x (3700~4900)	2300 x 3100 x (3700~4900)	2400 x 3200 x (4200~5400)
機器總重 Machine weight (ton)	6~8	8~10	8~12	10~13	12~15

★以上規格僅供參考，詳細規格以報價單為主。

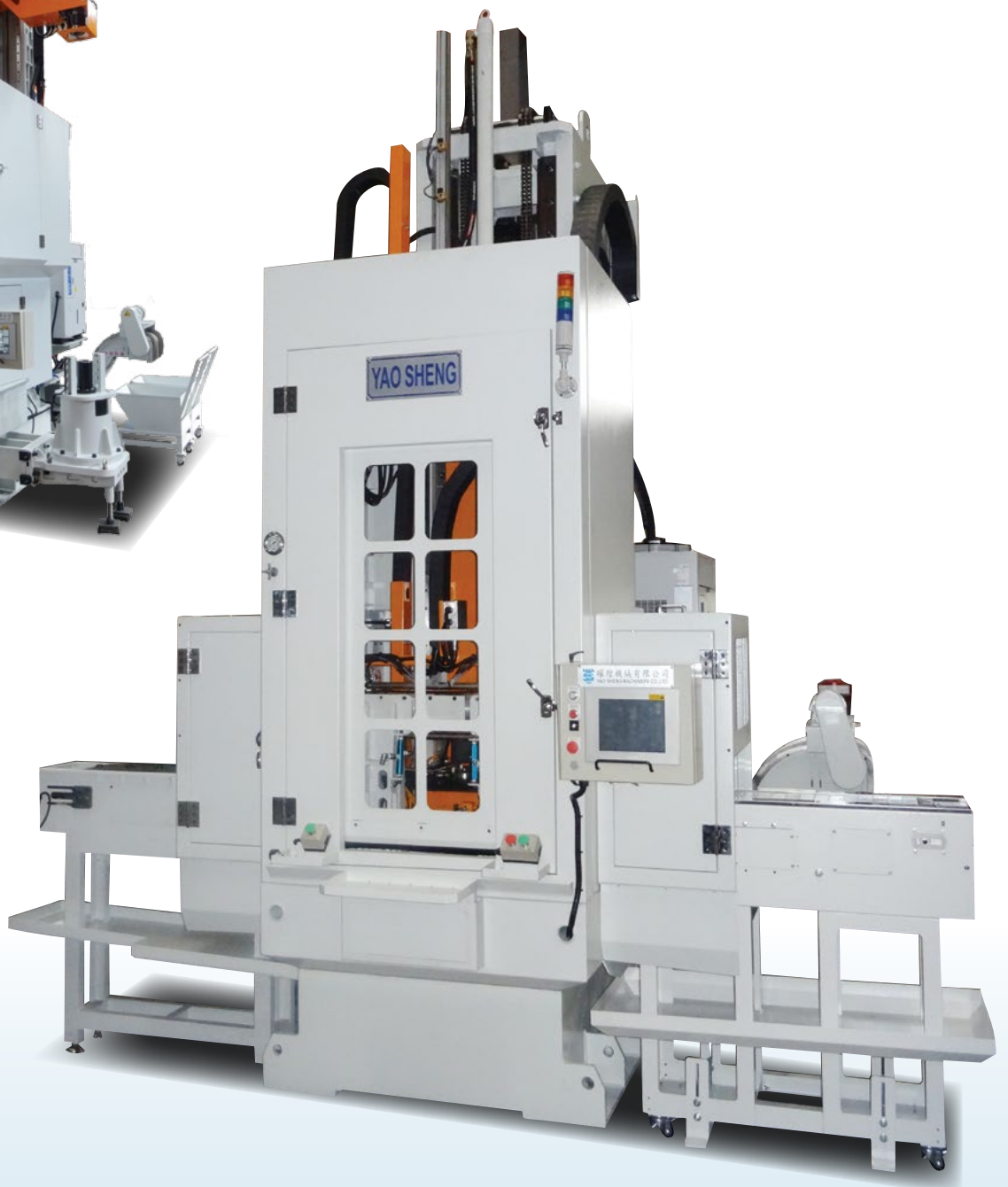
立式伺服拉床 - 上拉式（自動進退料）含自動提刀護送

Vertical Servo Broaching Machine - Table Up Broaching (Self Feed and Retreat with Automatic Broach Elevator)



機器規格 Specifications	TUVB-518	TUVB-1018	TUVB-2018
拉削力 Broaching force (ton)	5	10	20
拉削行程 Broaching stroke (mm)	1000~1500	1000~1600	1000~1600
進刀速度 Range of feed speed (m/min)	0~8	0~8	0~8
退刀速度 Range of retract speed (m/min)	0~12	0~12	0~10
加工物外徑 Max. workpiece diameter (mm)	Ø80	Ø120	Ø150
主伺服馬達 Main servo motor (kw)	7	15	22+5 比減速機
切削液馬達 Cutting oil pump motor (HP)	1HP x 6P x 2	1HP x 6P x 2	1HP x 6P x 2
滾珠螺桿規格 Ball screw size (mm)	Ø55	Ø63	Ø80
工作台高度 Height of table (mm)	1000~1200	1000~1200	1000~1200
佔地尺寸 (寬 x 深 x 高) Machine dimensions (WxLxH) (mm)	2100 x 3100 x (3800~4800)	2600 x 3100 x (3800~5000)	2900 x 3500 x (3900~5100)
機器總重 Machine weight (ton)	6~8	8~10	11~14

★以上規格僅供參考，詳細規格以報價單為主。



立式油壓拉床（外圓拉削三方位含自動進退料）

Vertical Hydraulic Broaching Machine

(Cylindrical Broaching Three-axe with Self Feed and Retreat)



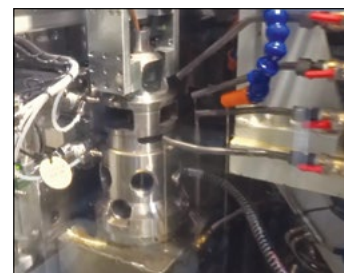
機器規格 Specifications	TUVB-760	TUVB-780
拉削力 Broaching force (ton)	10	15
拉削行程 Broaching stroke (mm)	1200~1500	1500~1900
進刀速度 Range of feed speed (m/min)	0~10	0~10
退刀速度 Range of retract speed (m/min)	0~14	0~14
加工物外徑 Max. workpiece diameter (mm)	Ø80 ~ Ø150	Ø80 ~ Ø150
主油壓馬達 Main hydraulic pump motor (HP)	15HP x 6P x 1	20HP x 6P x 1
切削液馬達 Cutting oil pump motor (HP)	1HP x 6P x 1	1HP x 6P x 1
主油壓缸規格 Hydraulic cylinder size (mm)	Ø125 x Ø90 x (1250~1550)st	Ø150 x Ø100 x (1550~1950)st
工作台高度 Height of table (mm)	2100~2400	2500~2900
佔地尺寸 (寬 x 深 x 高) Machine dimensions (WxLxH) (mm)	1300 x 2000 x (3500~4100)	1500 x 2050 x (4100~4900)
機器總重 Machine weight (ton)	7~9	9~11

★以上規格僅供參考，詳細規格以報價單為主。

臥式拉床專用機（自動進退料）

Horizontal Broaching Machine

(Self Feed and Retreat)



臥式伺服拉床

Horizontal Servo Broaching Machine

機器規格 Specifications	TUVB-9060
拉削力 Broaching force (ton)	20
拉削行程 Broaching stroke (mm)	2000
進刀速度 Range of feed speed (m/min)	0~6
退刀速度 Range of retract speed (m/min)	0~10
加工物外徑 Max. workpiece diameter (mm)	專用外型
主伺服馬達 Main servo motor (kw)	22
切削液馬達 Cutting oil pump motor (HP)	1HP x 6P x 2
滾珠螺桿規格 Ball screw size (mm)	Ø100
工作台高度 Height of table (mm)	1000
佔地尺寸 (寬 x 深 x 高) Machine dimensions (WxLxH) (mm)	2400 x 7500 x 2400
機器總重 Machine weight (ton)	17

★以上規格僅供參考，詳細規格以報價單為主。

臥式油壓拉床

Horizontal Hydraulic Broaching Machine

機器規格 Specifications	TUVB-9060
拉削力 Broaching force (ton)	20
拉削行程 Broaching stroke (mm)	2000
進刀速度 Range of feed speed (m/min)	0~6
退刀速度 Range of retract speed (m/min)	0~10
加工物外徑 Max. workpiece diameter (mm)	專用外型
主油壓馬達 Main hydraulic pump motor (HP)	40HP x 6P x 1 7.5 HP x 6P x 1
切削液馬達 Cutting oil pump motor (HP)	1HP x 6P x 2
主油壓缸規格 Hydraulic cylinder size (mm)	Ø200 x Ø100 x 2000st
工作台高度 Height of table (mm)	1000
佔地尺寸 (寬 x 深 x 高) Machine dimensions (WxLxH) (mm)	2400 x 8500 x 2400
機器總重 Machine weight (ton)	17

★以上規格僅供參考，詳細規格以報價單為主。

拉刀

Broaches



▼機械用零件拉刀 Broach for machine parts



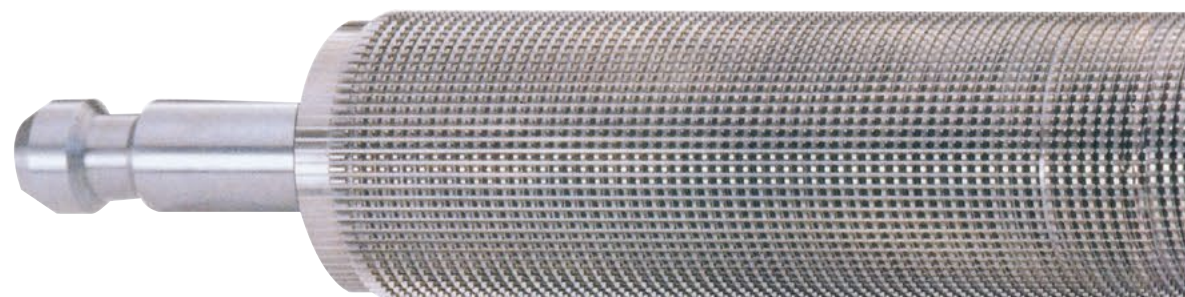
▼汽車零件拉刀 Broach for automotive parts



▼機車引擎零件特殊齒型拉刀 Special gear-form broach for motorcycle engine parts



▼高精度漸開線游星齒輪拉刀 High precision gradually developed vernier-star gear broach



▼機械用零件拉刀 Broach for machine parts

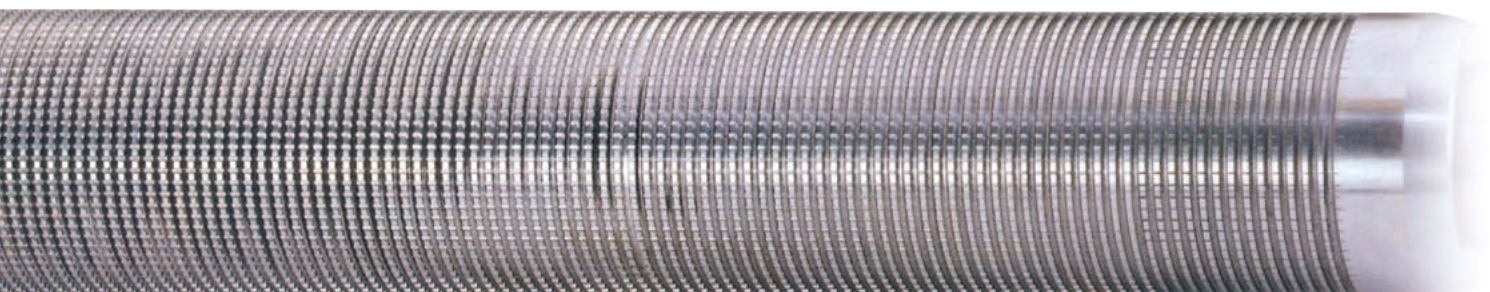


▼機車引擎零件拉刀 Broach for motorcycle engine parts



▼汽車零件轉動拉刀 Broach for rotating automotive parts



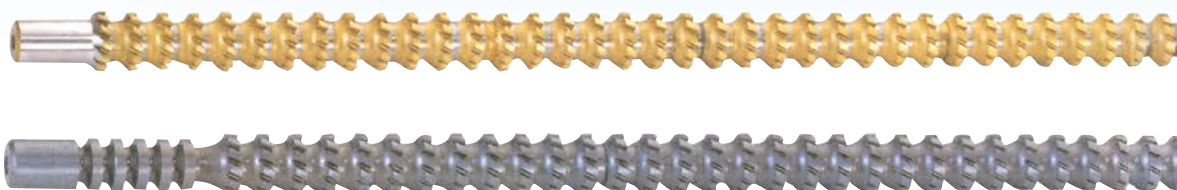


拉刀

Broaches



▼ 汽車零件用特殊螺旋拉刀 Special spiral broach for automotive parts



▼ 汽車零件用 D 型拉刀 D-type broach for automotive parts

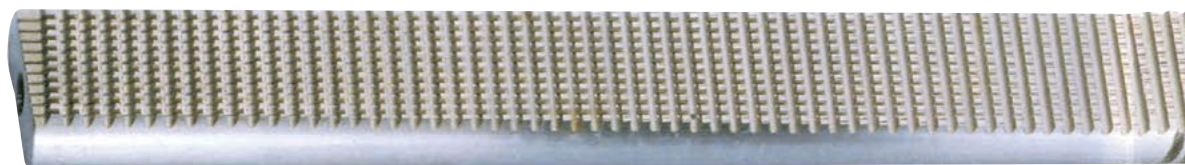


▼ 本支拉刀特色是從粗切削、精切削、拋光一次完成面粗度可達到 0.003mm

This broach is characterized in completing the job of coarse cutting, fine cutting, polishing in one operation with surface roughness up to 0.003.



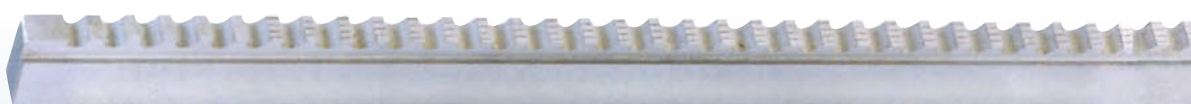
▼ 關門器排齒拉刀 Rack broach for door closer



▼ 汽車用特殊齒型組立拉刀 Special gear-shaped assembling broach for automotive



▼ 汽機車機械用鍵槽拉刀 Keyway broach for both automotive and motorcycle



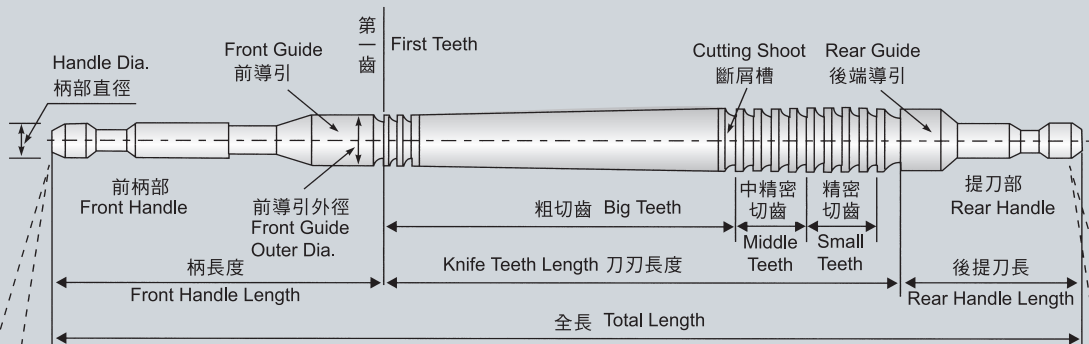
▼ 特殊異型、齒型拉刀 Special irregular, gear-shape broach





拉刀

Broaches



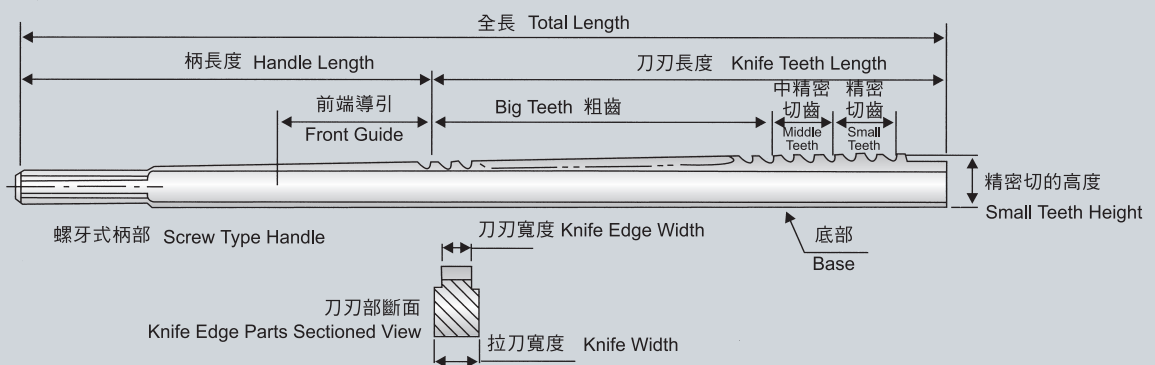
Types for Front Handle :
柄部可選擇下列各型式：

- (1) 插銷型式 (Ejector Pin Type)
- (2) 自動夾頭型式 (Jaw Chuck Type)
- (3) 螺絲型式 (Screw Type)
- (4) 插pin型式 (Ejector Hemicycle Pin Type)

提刀可使用下列型式：

- (1) N 型 (爪式)
N Type (Jaw Chuck)
- (2) 圓頭型
Round Head Type
- (3) 台型溝型 (平面型)
Plate Type

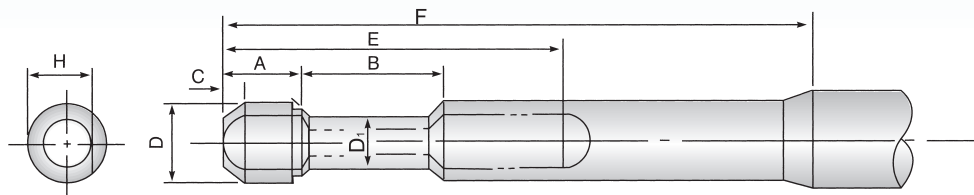
鍵槽拉刀 (串仔刀) Keyway Broaches



自動夾頭拉刀柄部標準尺寸表

Front Broach Dimension

(Jaw Chuck Type)



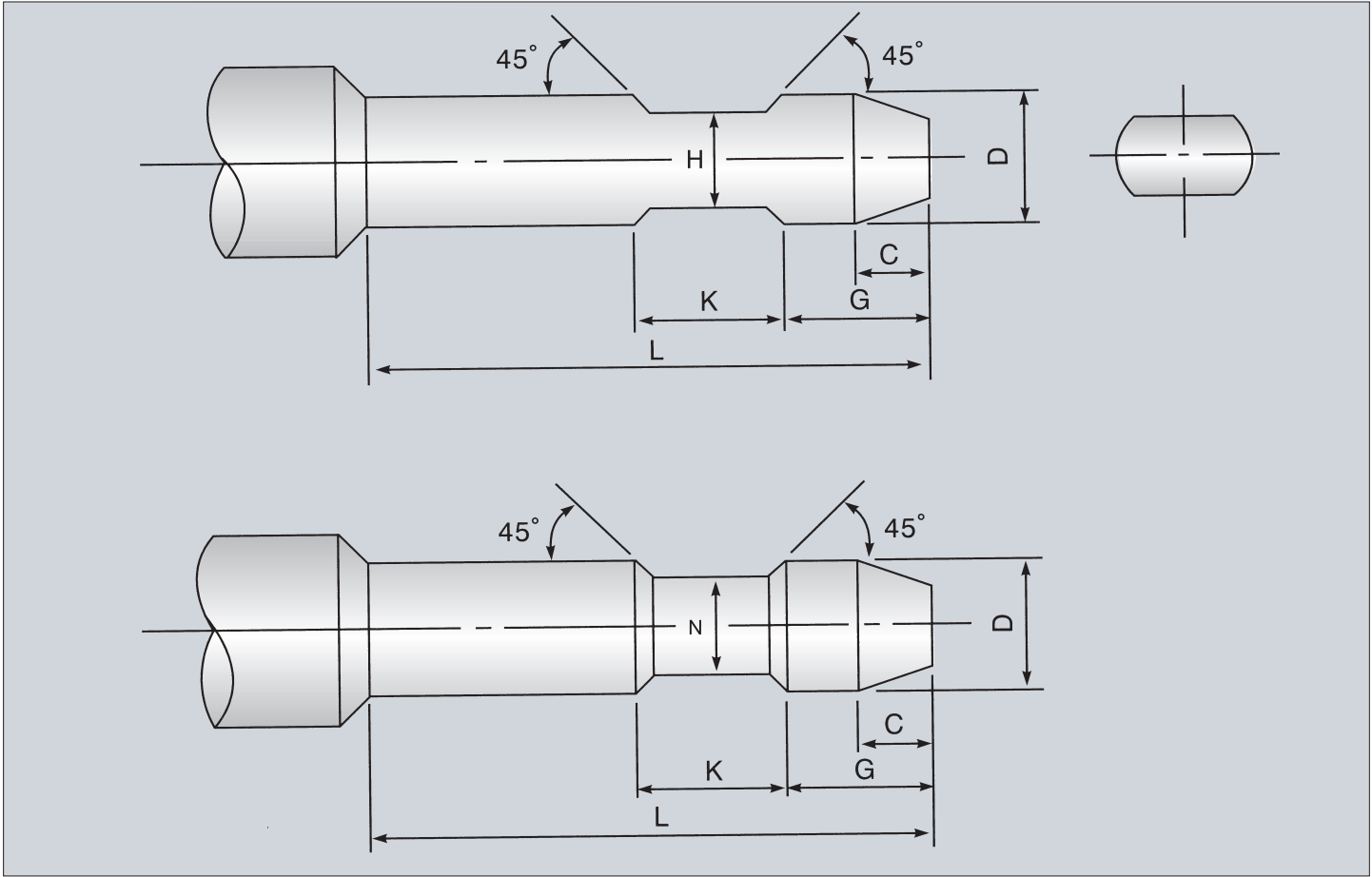
單位 : mm UNIT:mm

D	TOLERANCE (容許誤差)	D1	TOLERANCE (容許誤差)	A	B	C	E	H	TOLERANCE (容許誤差)	F
3.0	+0 -0.03	1.2	±0.1	10	20	1.0	60		-0.04 -0.076	80
4.0	+0 -0.03	2.0	±0.1	10	20	1.0	60		-0.04 -0.076	80
5.0	+0 -0.03	2.4	±0.1	10	20	1.0	60		-0.04 -0.076	80
6.0	+0 -0.03	2.8	±0.1	10	20	1.0	60		-0.04 -0.076	80
7.0	+0 -0.022	2.8	-0.058	10	20	1.5	60	6.25	-0.04 -0.076	80
8.0	+0 -0.022	4.2	-0.058	10	20	2.0	60	6.8	-0.04 -0.076	80
9.0	+0 -0.022	7.0	-0.058	10	20	2.0	60	7.8	-0.4 -0.076	80
10	+0 -0.022	7.5	-0.08	12	25	2.0	90	8.5	-0.04 -0.076	110
11	+0 -0.027	8.5	-0.08	12	25	3.0	90	9.0	-0.05 -0.093	110
12	+0 -0.027	9.0	-0.08	12	25	3.0	90	10.5	-0.05 -0.093	110
14	+0 -0.027	10.5	-0.1	12	25	3.0	90	12.0	-0.05 -0.093	110
15	+0 -0.027	11.5	-0.1	12	25	3.0	90	12.5	-0.05 -0.093	110
16	+0 -0.027	12.0	-0.1	15	30	4.0	100	13.5	-0.05 -0.093	120
18	+0 -0.027	13.5	-0.1	15	30	4.0	100	15.0	-0.05 -0.093	120
20	+0 -0.033	15.0	-0.1	15	30	4.0	100	17.0	-0.05 -0.093	120
22	+0 -0.033	16.5	-0.1	15	30	4.0	100	18.5	-0.065 -0.117	120
24	+0 -0.033	18.5	-0.1	15	30	4.0	110	20.5	-0.065 -0.117	130
25	+0 -0.033	19.0	-0.15	18	35	5.0	110	21.5	-0.065 -0.117	130
28	+0 -0.033	21.0	-0.15	18	35	5.0	110	24.0	-0.065 -0.117	130
30	+0 -0.033	22.5	-0.15	18	35	5.0	120	25.5	-0.065 -0.117	140
32	+0 -0.039	24.0	-0.15	18	35	5.0	120	27.5	-0.065 -0.117	140
36	+0 -0.039	27.0	-0.15	18	35	5.0	120	31.0	-0.08 -0.142	140
38	+0 -0.039	28.5	-0.15	18	35	5.0	130	33.0	-0.08 -0.142	150
40	+0 -0.039	30.0	-0.15	20	40	6.0	130	34.5	-0.08 -0.142	150
50	+0 -0.039	38.0	-0.2	20	40	6.0	130	43.5	-0.08 -0.142	150

★以上規格僅供參考，詳細規格以報價單為主。

自動提刀柄部標準尺寸表

Rear Broach Dimension



單位 : mm UNIT:mm

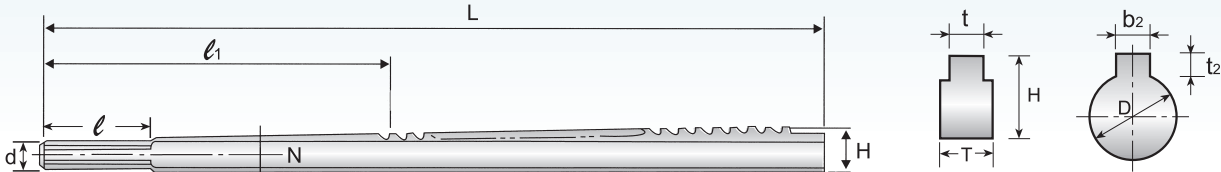
D	TOLERANCE (容許誤差)	H/N	TOLERANCE (容許誤差)	G	K	C	L
15	-0.06 -0.33	11	+0 -0.1	16	16	8	60
20	-0.07 -0.40	14	+0 -0.1	20	20	8	70
25	-0.07 -0.40	18	+0 -0.1	20	20	8	70
30	-0.07 -0.40	22	+0 -0.15	25	25	10	80
35	-0.09 -0.48	26	+0 -0.15	25	25	10	80
40	-0.09 -0.48	30	+0 -0.15	25	25	10	80
45	-0.09 -0.48	34	+0 -0.2	25	25	10	80
50	-0.09 -0.48	38	+0 -0.2	30	30	12	90
60	-0.10 -0.56	48	+0 -0.2	30	30	12	90
75	-0.10 -0.56	63	+0 -0.2	30	30	12	90

★以上規格僅供參考，詳細規格以報價單為主。

鍵槽拉刀柄部標準尺寸表

Front Broach Dimension

(Keyway Broaches)



單位 : mm UNIT:mm

PIN channel x Depth (t x t2)	b ₂	t ₂	D	Working piece Length	t	T	H	L	ℓ ₁	d	ℓ	N			
3 x 1.5	3	1.5	10	16	3	5	9	425	165	M6 x 1	20	3.5			
				28				530	185						
4 x 2	4	2	10	28	4	5	9	600	185						
4 x 2	4	2	12	45	4	6	10	750	225						
5 x 2.5	5	2.5	13	28	5	7	11	600	190	M8 x 1.25	25	4.5			
5 x 2.5	5	2.5	15	45	5	8	13	800	230	M10 x 1.5	30	6			
6 x 3	6	3	18	45	6	9	16	850	230						
				63				1000	270						
7 x 3.5	7	3.5	18	28	7	9	16	750	195	M10 x 1.5	30	6			
				45				950	230						
				63				1120	270						
8 x 3.5	8	3.5	24	45	8	12	21	950	240	M14 x 2	40	8			
				63				1120	280						
10 x 4	10	4	30	45	10	15	26	900	240	M16 x 2	40	11			
				90				1250	330						
12 x 4	12	4	40	45	12	17	32	950	250	M18 x 2.5	50	13			
				90				1250	340						
14 x 4	14	4	45	45	14	18	34	1000	250	M20 x 2.5	50	16			
				90				1320	340						
15 x 5.5	15	5.5	50	45	15	19	36	1120	250						
				90				1500	340						
16 x 4.3	16	4.3		45	16			1060	250						
				90				1400	340						

★以上規格僅供參考，詳細規格以報價單為主。

插半圓型銷拉刀柄部標準尺寸表

Front Broach Dimension

(Ejector Hemicycle Pin Type)



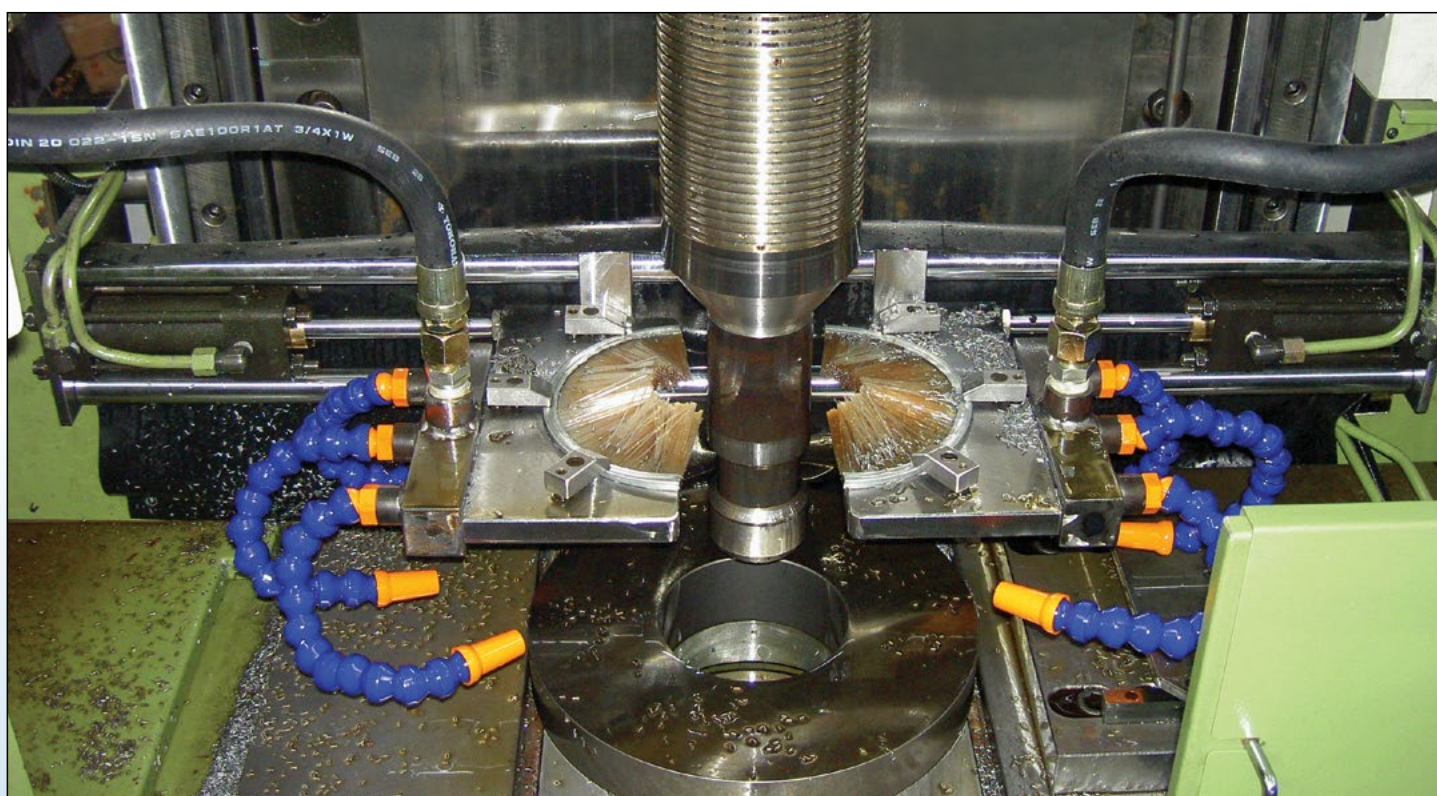
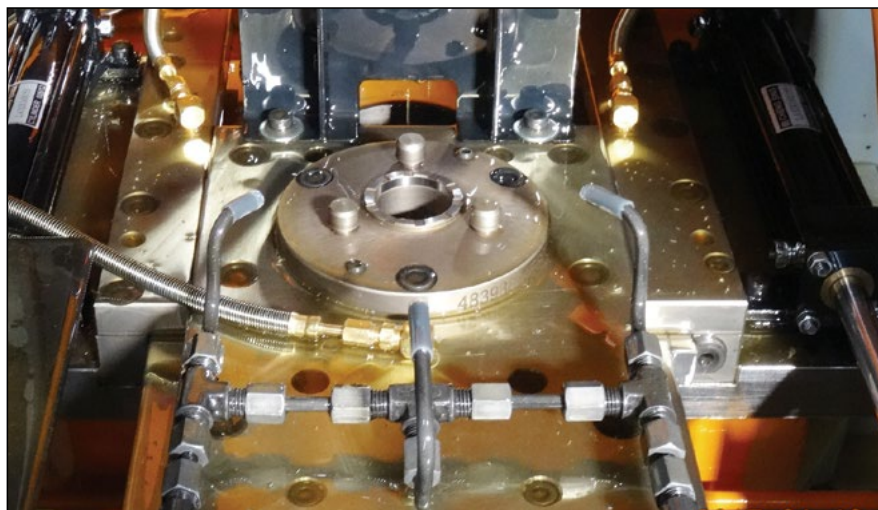
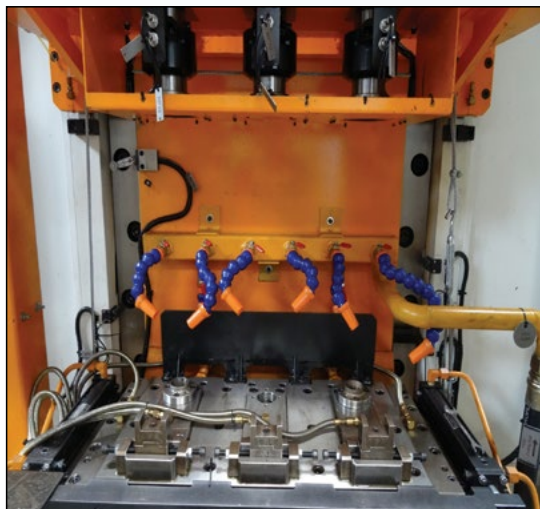
單位 : mm UNIT:mm

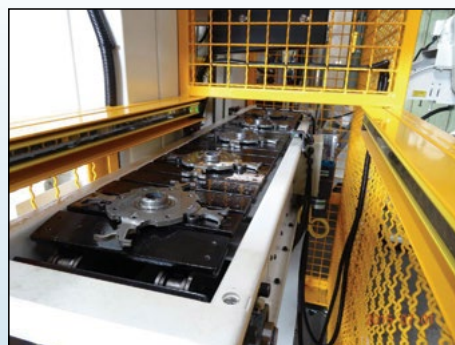
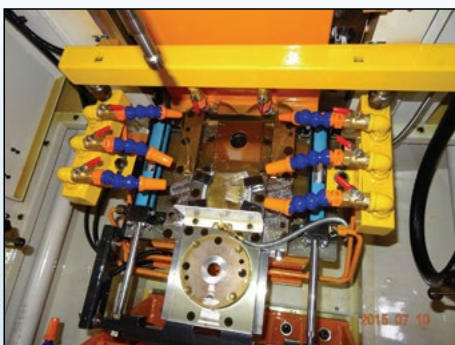
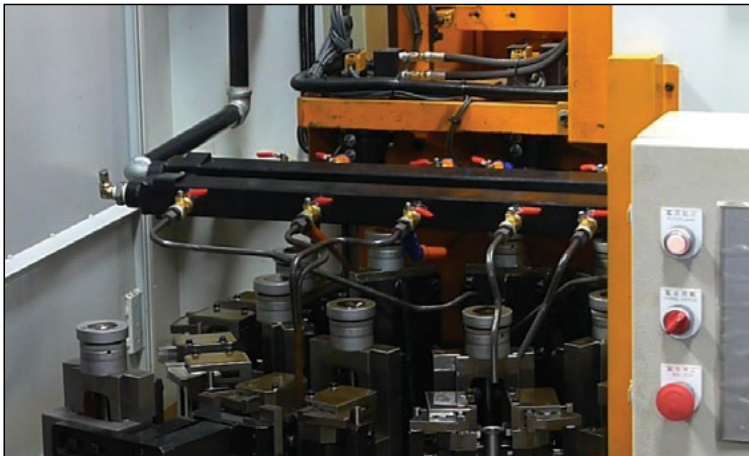
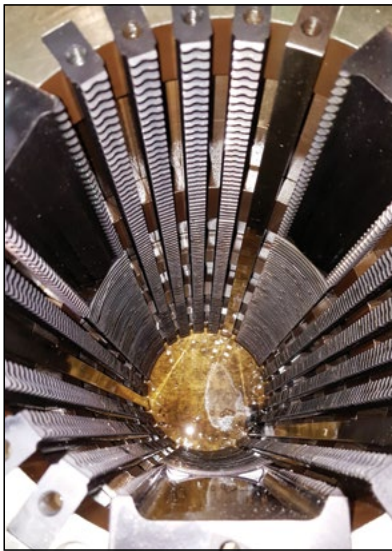
D	TOLERANCE h8 (容許誤差) h8	A	C	H	TOLERANCE h8 (容許誤差) h8	R	TOLERANCE h8 (容許誤差) h8
3.2	+0 -0.018	10	0.5	2.2	+0 -0.1	2.5	+0.2 -0
3.6	+0 -0.018	10	0.5	2.5	+0 -0.1	2.5	+0.2 -0
4	+0 -0.018	12	1	2.8	+0 -0.1	3	+0.2 -0
4.5	+0 -0.018	12	1	3.2	+0 -0.15	3	+0.2 -0
5	+0 -0.018	13	1	3.5	+0 -0.15	3	+0.2 -0
5.5	+0 -0.018	13	1	4	+0 -0.15	3	+0.2 -0
6	+0 -0.018	13	1	4.5	+0 -0.15	3	+0.2 -0
7	+0 -0.022	14	1.5	5	+0 -0.2	4	+0.3 -0
8	+0 -0.022	16	1.5	5.5	+0 -0.2	4.5	+0.3 -0
9	+0 -0.022	18	1.5	6.5	+0 -0.2	5	+0.3 -0
10	+0 -0.022	20	2	7	+0 -0.25	5.5	+0.3 -0
11	+0 -0.027	22	2	8	+0 -0.25	6	+0.3 -0
12	+0 -0.027	25	2	8.5	+0 -0.25	7	+0.3 -0

★以上規格僅供參考，詳細規格以報價單為主。

拉床加工範例

Broaching Machine Application Examples





營業項目

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曜陞機械有限公司 YAO SHENG MACHINERY CO., LTD.

台灣公司

台中市 411 太平區光興路 1122 號 -1

No.1122-1, Guangxing Rd., Taiping Dist., Taichung City 411, Taiwan

TEL:886-4-2275 1198

FAX:886-4-2275 1368

<http://www.tsangsheng.com.tw>

<http://www.tsangsheng.com>

E-mail:t2714100@ms47.hinet.net

重慶分公司

地址：重慶市璧山區青杠街道大字街附二街 14，16，18 號

寄件地址：重慶市璧山區青杠街道雲湖西城 5 棟

連絡電話：13773127552 聯絡人：廖杰峰

E-mail: n13635912755@163.com

無錫辦事處

地址：江蘇省無錫市新吳區聯心嘉園 10 棟 403

連絡電話：15995613552 聯絡人：廖世強

E-mail: 15995613552@163.com



昆山宇威精密金属工业有限公司 KUN SHAN YU WEI PRECISION METAL INDUSTRY CO., LTD.

昆山公司

江苏省昆山市陆家镇和谊路 8 号 4# 厂房

4#workshop, HeYi road NO.8, Lujia town,

Kunshan City, Jiangsu Province, JIANG SU, P.R.C.

TEL:86-0512-5787 4588

FAX:86-0512-5787 6708

欣羽威精密机械（深圳）有限公司

ZIN YU WEI PRECISION MACHINE (SHEN ZHEN) CO., LTD.

深圳公司

中国广东省深圳市宝安区松岗街道红星社区

蚝涌工业区 16 栋（广东深高速辅道第四条）

TEL:86-75529698189, 75529698183

FAX:86-75529698120

E-mail:xinyuweisz@126.com

Agent



www.tsangsheng.com.tw