www.jinyear.com.tw

吉益精密有限公司
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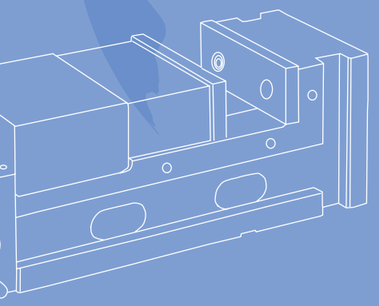
Precision
Machine
Tool
Accessories

MACHINE
Jin Year
TOOL

吉益精密有限公司
JIN YEAR PRECISION CO.,LTD.

CE EURO CERT

About us



吉益精密有限公司成立於1991年，本公司專業製造生產精密虎鉗、油壓虎鉗、鑽頭研磨機及機械配件。

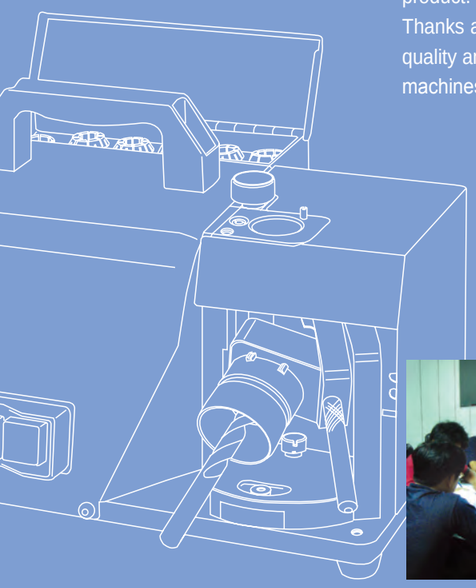
我們秉持“工欲善其事、必先利其器”的理念，來生產製造本公司產品。公司生產設備有：CNC切削中心機、銑床、磨床等機器設備。這些精密機器設備加上完善的加工流程，製造出品質第一精度穩定的產品，是我們公司一直秉持的一貫政策。

感謝各界給予我們的支持與愛護，我們將繼續秉持品質第一、服務致上的原則，持續研究開發一系列；精密虎鉗、油壓虎鉗、鑽頭研磨機及機械配件等產品，讓各界有更安全、方便、好用的機具來提高工作效率。

The Company was established in 1991, We specialize in manufacturing Precision Machine Vise, Hydraulic Vise, Drill Re-Sharpening Machine and Machine Tool Accessories.

We insist the principle “A workman wants to do his work well must sharpen his tools” to make a product. Our equipments: CNC machine center, milling machine, grinding machine etc. Those precision machines and the perfect processing make the steadiest product. This is always our policy.

Thanks all the customers’ support and care. We will keep carry the principle” The best quality and the best service”. In order to provide you safer, more convenient and easier machines to raise the working efficiency.



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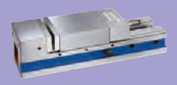
P17 MC 內藏式增壓角固虎鉗 MC HYDRAULIC ANGLE LOCK VISE (BUILT-IN TYPE) 

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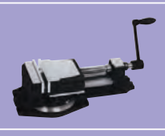
K 型虎鉗 K-TYPE MILLING VISE 

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立臥分度盤 HORIZONTAL & VERTICAL ROTARY TABLE

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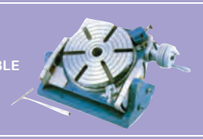
萬能型傾斜式分度盤 UNIVERSAL TILTING ROTARY TABLE 

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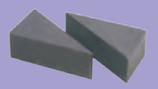
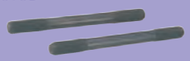
P31 三角級枕 STEP BLOCK 

雙頭螺絲 CLAMPING STUD 

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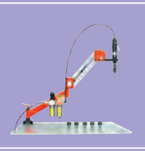
氣動攻牙機 工作範圍：100-1000mm AIR TAPPING MACHINE WORK RANGE : 100-1000mm 

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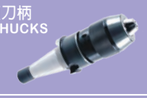

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JMBH2084 微調搪孔器組

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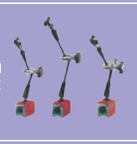
P55 磁性座 MAGNETIC BASE

油壓式磁性錶座 HYDRAULIC ARM MAGNETIC BASE

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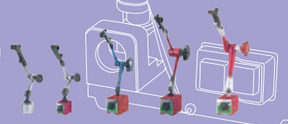

P56 刀具車 TOOLING WAGOW

刀具架 TOOLING RACK

切削冷卻噴霧器 MULTI-FUNCTION MIST COOLANT SYSTEM

切削冷卻噴霧器(附磁性座) MULTI-FUNCTION MIST COOLANT SYSTEM (WITH MAGNETIC BASE)

鎖刀座 TOOL HOLDER LOCKING DEVICE

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光電式尋邊器 OPTICAL EDGE FINDER

偏心式尋邊器 MECHANICAL EDGE FINDER

P58 UG- 500 精密型氣動刻磨機 UG- 500 PRECISION TYPE AIR GRINDER

UG- 400 經濟型氣動刻磨機 UG- 400 ECONOMIC TYPE AIR GRINDER

UG-300 雙夾頭型氣動刻磨機 UG-300 DUAL-COLLET TYPE AIR GRINDER

AG- 45°氣動平面研磨機 AG- 45° ANGLE SURFACE GRINDER

AG- 90°氣動平面研磨機 AG-90° ANGLE SURFACE GRINDER

鑽頭研磨機
DRILL RE-SHARPENING MACHINE

MODEL：JD-213、JD-1326

★PATENT：M368512

CE

● 靜點調整裝置

● Adjust the device grinding chisel edge.

特點：

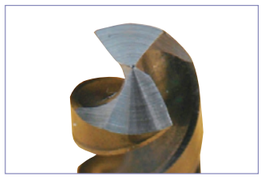
1.本機有CE安全認證。
2.操作簡單快速，品質穩定。
3.先端角由90°~135°(一般適用118°)
4.靜點研磨，可以依需求做調整。(一般適用0.7mm)
5.首創上下擺動研磨方式，磨出來的鑽頭最鋒利、最耐用。

FEATURES：

1.This machine has the " CE safety authentication ".
2.Operates is fast and simple. The quality is stable.
3.Point Angle 90°~135°.(Generally is suitable 118°)
4.Chisel edge grinding. Can adjusting by your demand. (Generally is suitable 0.7mm)
5.It's the first to research and development "up to down" swinging grinding way. The finished drill is sharpest, and the most durable.

● 本公司研發上下擺動磨出來的鑽頭，非常鋒利。

● Our company new researches and develops, swing the drill grinding from up to down, very sharp.



● 一般左右轉動研磨出來的鑽頭，比較鈍。

● Generally rotate the drill grind left to right, it's blunt.

首創上下擺動的研磨方式 First to research and development " Up to Down " swinging grinding way

上 Up

下 Down

● 研磨鑽頭的方式，上下擺動為最標準的的研磨方法，磨出來的鑽頭最鋒利、最耐用。

● The way to grind drill, swing for the most standard, method of grinding from up to down. The finished drill is sharpest and the most durable.

MODEL	JD-213	JD-1326
鑽頭直徑 Drill Diameter	Ø2.0~Ø13.0	Ø13~Ø26
先端角 Point Angle	90° ~135°	90° ~135°
電源 Power Supply	AC-110V,220V單相	AC-110V,220V單相
回轉數 R.P.M of Motor	5100R.P.M	4200R.P.M
鑽石砂輪 Grinding Wheel	CBN#200 (一般HSS鑽頭專用)	CBN#150(一般HSS鑽頭專用)
重量 Net Weight	9kg	23kg
標準附件 Standard Accessories	筒夾 Collet ×11pcs 夾頭組 holder×1set 六角板手Hexagon wrench 4mm/6mm各一支	筒夾 Collet×14 pcs 夾頭組 holder×1set 六角板手 Hexagon wrench 4mm/6mm各一支

立銑刀研磨機
FAST END MILL RE-SHARPENING MACHINE

MODEL：JE-413、JE-1225

★PATENT：M321829

CE

● 研磨後斜角20°

● For screw radial angle20°

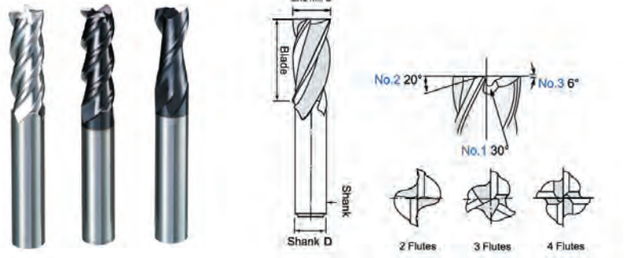
● 平面角6°此橢圓形孔允許夾具軸向移動研磨所有端銑刀面

● For cutting angle 6°. This oval shaped hole allows holder unit to move on axis to grind all surface of end mill.

● 供端銑刀底溝角30°

● For end mill flat slot angle 30°

1.High Efficiency, High Quality Grinding Slip, Good Grinding Results.
2.Quality Assurance: 0.02mm.
3.Easy Operation, and Fast for Convenience.



● 二、四刃專用

● For 2/4 Flute End Mill

● 三刃專用

● For 3 Flute End Mill

MODEL	JE-413	JE-1225
研磨範圍 Capacity	4 ~ 13mm	12 ~ 25 mm
電源 Power Supply	AC-110V, 220V單相	AC-110V, 220V 單相
馬達/ 轉速 Motor/ Speed	450W / 6000rpm	1000W / 4500rpm
鑽石砂輪 Diamond Wheel	SDC300#(4~5mm carbide end mill) SDC300#(6~13mm carbide end mill)	SDC150#(12~25mm carbide end mill) CBN150#(12~25mm high speed end mill)
重量 Weight	17KGS	30KGS
先端角 Axial Angles	銑刀端面角6° Third Angle 6° 銑刀後斜角20° Primary Angle 20° 銑刀底溝角30° Second Angle 30°	
標準附件 Standard Accessories	筒夾 Collet：4 ~13mm (10 pcs) 夾頭組 holder：(2, 4)*1 set、(3)*1 set 六角板手Hexagon wrench：4mm*1pcs	筒夾 Collet：12, 16, 18, 20, 22, 25mm (6 pcs) 夾頭組 holder：(2, 4)*1 set、(3)*1 set 六角板手Hexagon wrench：4mm*1pcs
特別附件 Option Accessories	鑽石砂輪 Diamond Wheel： CBN 300#(4~5mm)high speed end mill CBN 270#(6~13mm)high speed end mill 2 flutes CBN 270#(4~13mm)high speed end mill 2 flutes SDC 300#(4~13mm)carbide end mill 2 flutes	鑽石砂輪 Diamond Wheel： CBN 150#(12~25mm)high speed end mill 2 flutes SDC 150#(12~25mm)carbide end mill 2 flutes

MC 定壓式倍力虎鉗
MC POWER VISE

MODEL：JQV-160S、JQV-160M、JQV-160、JQV-160L 、JQV-200L

特點：

1.定壓裝置，夾持力可以預先設定，重複使用相同的夾持力。
2.虎鉗本台採用球狀石墨化鑄鐵FCD-60材質。
3.虎鉗滑動面均經硬化熱處理HRC45°，堅固耐用確保精度。
4.虎鉗本體的高度與導正鍵槽皆做定寸管制，可以2、3、4台一起使用。
5.虎鉗本體長度超短，開口超大，適合各式銑床、中心加工機使用。

FEATURES：

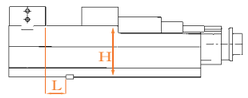
1.Pressure Constant. Clamping force can presetting, repeat use the same clamping force.
2.Vise body is made of ductile iron FCD-60.
3.Vise bed hardened to HRC45° and maintain accuracy for long.
4.Vise bed height-size and the guide block side are all made with full control, can 2、3、or 4 vises to perform a job at a time.
5.The length of vise body is very short, but the clamping range is very big. It works with every kind of milling machine, CNC machine center…

★虎鉗可側立使用
VISE CAN SIDE-LOCK TO WORK.

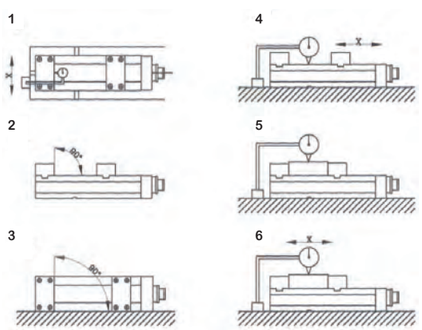
★每台虎鉗的高度與導正鍵槽皆做定寸管制。
The height and the guide block side of every vise are all made with full control.

L-尺寸公差限度0.02或少於
L- Dimension tolerance 0.02 or less.

H- Dimension tolerance 0.02 or less.



No.	檢查項目 Inspection Item(100mm)	容許值 Allowance	
		JIN YEAR	JIS CLASS
1.	鉗口面對本台底面導正鍵槽之平行度 Parallelism of guide block side of body bottom face and fixed jaw clamp force.	0.01	0.015
2.	鉗口面對滑動面之垂直度 Squareness of fixed jaw clamp face and jaw slide way.	0.015	0.03
3.	雙側面對滑動面之垂直度 Vise side-lock on the bottom with the slide way in vertical.	0.02	0.02
4.	本台滑動面對底面之平行度 Parallelism of body bottom face and jaw slide way.	0.01	0.015
5.	工件夾緊後之上浮量 Top face lift of test block in clamping.	0.015	0.03
6.	工件夾緊後之平行度 Parallelism of top face of clamped test block in clamping.	0.015	0.02



●定壓裝置：

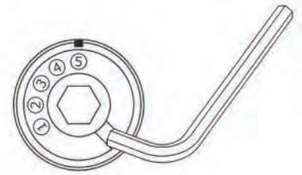
1.夾持力可以預先設定，將六角板手插入定壓裝置之缺口，調整至所需要之夾持力刻度，即可重複使用相同的夾持力。

2.一般最適用的夾持力刻度為 4

●PRESSURE SYSTEM：

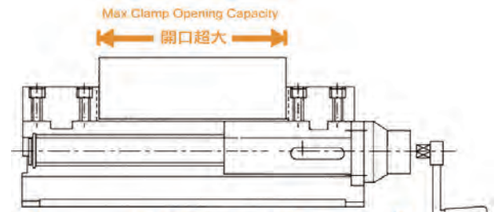
1.Clamping force can be set up in advance, using hexagon wrench to insert into the gap of pressure system. Then, it can be adjusted to the clamping force for specific demand and allowed to repeat use the same clamping force.

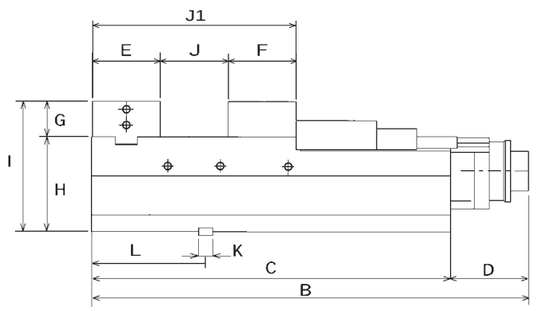
2.Generally clamping force is suitable scale 4

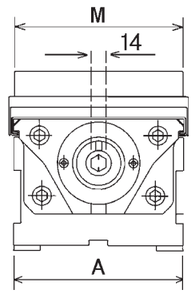


● 定壓裝置
● PRESSURE SYSTEM

夾持力(刻度) Clamping Force (Scale)						開口範圍 Clampimg Range
MODEL	1	2	3	4	5	
JQV-160S	1000	2000	3000	4000	5000	0~235
JQV-160M	1000	2000	3000	4000	5000	0~275
JQV-160	1000	2000	3000	4000	5000	0~305
JQV-160L	1000	2000	3000	4000	5000	0~355
JQV-200L	1000	2000	3500	4500	6000	0~405



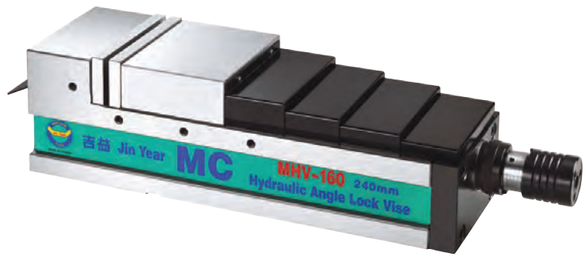




MODEL	A	B	C	D	E	F	G	H	I	J	J1	K	L	M	夾持力 Clamping Force	N.W
JQV-160S	161	515	416	99	86	86	50	105	155	235	405	18	145	159.5	5000kgf	55kg
JQV-160M	161	555	456	99	86	86	50	105	155	275	445	18	145	159.5	5000kgf	57kg
JQV-160	161	585	486	99	86	86	50	105	155	305	475	18	145	159.5	5000kgf	60kg
JQV-160L	161	635	536	99	86	86	50	100	150	355	525	18	145	159.5	5000kgf	66kg
JQV-200L	202	710	611	99	102	98	70	110	180	405	605	18	176	199.5	6000kgf	103kg

MC 增壓式角固虎鉗
MC HYDRAULIC ANGLE LOCK VISE

MODEL：MHV-100, MHV-130, MHV-160, MHV-160A, MHV-200



★PATENTED

特點：

1.角固式配合"半圓球體"下鎖之力，可防止工件上浮。
2.增壓式與機械式兩種使用方法。
3.虎鉗本台採用球狀石墨化鑄鐵FCD-60材質。
4.虎鉗滑動面均經硬化熱處理HRC45°，堅固耐用確保精度。
5.虎鉗本體的高度與導正鍵槽皆做定寸管制，可以2、3、4台一起使用。
6.虎鉗有四種不同的夾持方式，供您選擇。

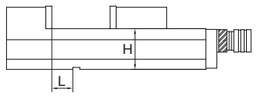
FEATURES：

1.Down thrust with " semi-sphere " to prevent workpiece lift.
2.Mechanical / Hydraulic. Two operate methods.
3.Vise body is made of ductile iron FCD-60.
4.Vise bed hardened to HRC45° and maintain accuracy for long.
5.Vise bed height-size and the guide block side are all made with full control, can 2,3,or4 vises to perform a job at a time.
6.Vise have 4 ways of clamping. For you to choice.

★虎鉗可側立使用
VISE CAN SIDE-LOCK TO WORK.

★每台虎鉗的高度與導正鍵槽皆做定寸管制。
The height and the guide block side of every vise are all made with full control.

L-尺寸公差限度0.02或少於
L- Dimension tolerance 0.02 or less.



H-尺寸公差限度0.02或少於。
H- Dimension tolerance 0.02 or less.

NO.	檢查項目 Inspection Item (100mm)	容許值 Allowance	
		JIN YEAR	JIS CLASS
1	鉗口面對本台底面導正鍵槽之平行度 Parallelism of keyways of body bottom face and fixed jaw clamp face.	0.01	0.015
2	鉗口面對滑動面之垂直度 Squareness of fixed jaw clamp face and jaw slideway.	0.015	0.03
3	雙側面對滑動面之垂直度 Vise side-lock on bottom with the slide way in vertical.	0.02	0.02
4	本台滑動面對底面之平行度 Parallelism of body bottom face and jaw slideway.	0.01	0.015
5	工件夾緊後之上浮量 Top face lift of test block in clamping.	0.02	0.03
6	工件夾緊後之平行度 Parallelism of top face of clamped test block in clamping.	0.015	0.02

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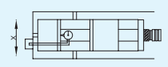

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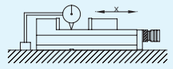

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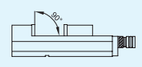

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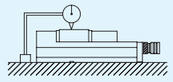

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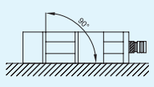

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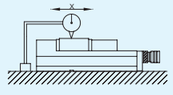
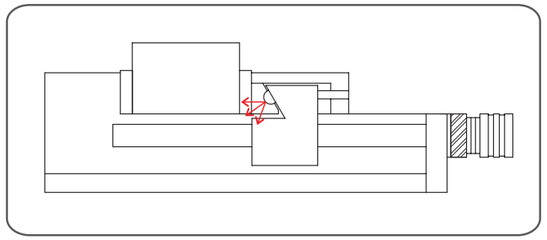
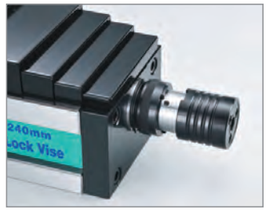




●角固式配合 "半圓球體" 下鎖之力，可防止工件上浮。

● Down trust with “semi-sphere” to prevent workpiece lift.

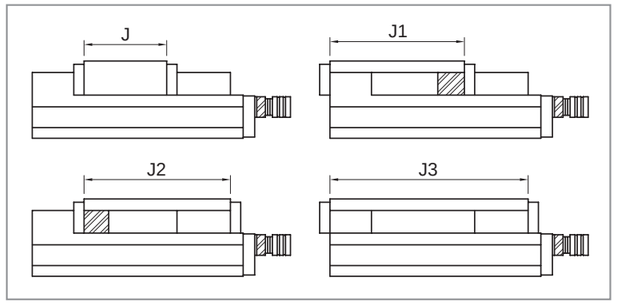


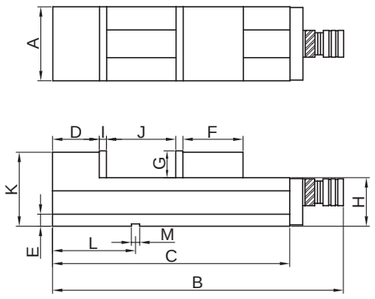
增壓式夾緊系統
Hydraulic System

機械式夾緊系統
Mechanical System

● 夾緊系統：增壓式與機械式兩種使用方法。

● Clamping System: Hydraulic / Mechanical Two operate methods.





● 虎鉗有四種不同的夾持方式，供您選擇。
● Vise have 4 ways of clamping. For you to choice.

MODEL	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	L	M	NW	夾持力 CLAMPING FORCE(SCALE)
MHV-100	102	475	340	65	25	102	47	85	15	125	125-190	125-230	125-320	130	125	16	25kg	3000kgf
MHV-130	132	558	423	70	25	110	54	95	15	200	200-260	200-300	200-410	147	165	18	38kg	4400kgf
MHV-160	162	632	497	85	25	130	57	105	15	240	240-315	240-360	240-470	160	165	18	59kg	5000kgf
MHV-160A	162	692	557	85	25	130	57	105	15	300	300-375	300-420	300-530	160	165	18	65kg	5000kgf
MHV-200	202	710	570	90	25	139	62	110	18	300	300-375	300-425	300-560	170	190	18	80kg	7000kgf

● Standard Accessories：1.Handle*1pc 2.Guide Key*2pcs/M6×12L*2pcs 3.Vise Locked Block*4pcs 4.Screw 16M×75L*4pcs 5.T-Type Screw 16M*4pcs 6.Washer 16M*4pcs
● Optional Accessories： Special Application Jaw Plates
● 標準附件：1.把手一組 2.導正鍵2只 / 螺絲*2只(M6*12L) 3.虎鉗固定塊4只 4.螺絲16M*75L*4支 5.T型螺帽16M*4只 6.華司16M*4片
● 特殊附件：特殊虎口板 (大開口用的虎口板)

MC 機械式角固虎鉗
MC MECHANICAL ANGLE LOCK VISE

MODEL：MV-100, MV-130, MV-160, MV-160A, MV-200

★PATENTED

特點：

1.角固式配合"半圓球體"下鎖之力，可防止工件上浮。
2.夾緊系統: 螺桿機械式。
3.虎鉗本台採用球狀石墨化鑄鐵FCD-60材質。
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FEATURES：

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2.Clamping System: Screw mechanical.
3.Vise body is made of ductile iron FCD-60.
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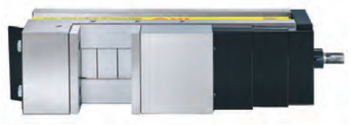

★虎鉗可側立使用
VISE CAN SIDE-LOCK TO WORK.

★每台虎鉗的高度與導正鍵槽皆做定寸管制。
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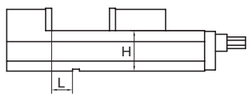
L- Dimension tolerance 0.02 or less.



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2	鉗口面對滑動面之垂直度 Squareness of fixed jaw clamp face and jaw slideway.	0.015	0.03
3	雙側面對滑動面之垂直度 Vise side-lock on bottom with the slide way in vertical.	0.02	0.02
4	本台滑動面對底面之平行度 Parallelism of body bottom face and jaw slideway.	0.01	0.015
5	工件夾緊後之上浮量 Top face lift of test block in clamping.	0.02	0.03
6	工件夾緊後之平行度 Parallelism of top face of clamped test block in clamping.	0.015	0.02

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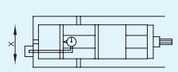

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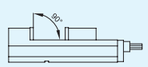

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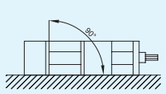

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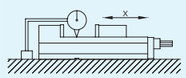

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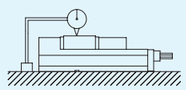

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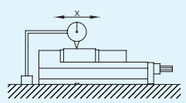
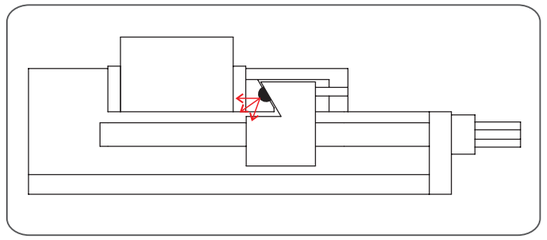


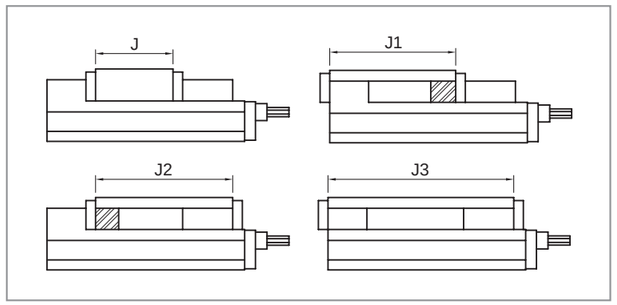


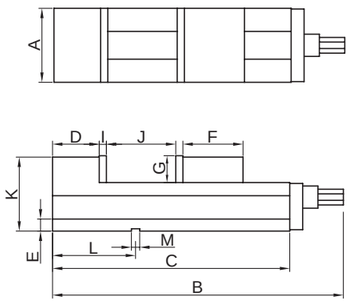
●角固式配合 "半圓球體" 下鎖之力，可防止工件上浮。

● Down trust with “semi-sphere” to prevent workpiece lift.

● 夾緊系統：螺桿機械式。

● Clamping System: Screw Mechanical





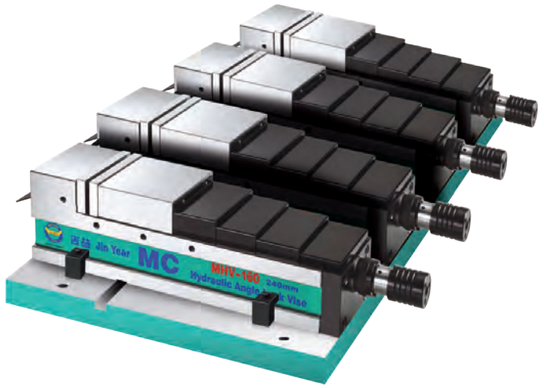
● 虎鉗有四種不同的夾持方式，供您選擇。
● Vise have 4 ways of clamping. For you to choice.

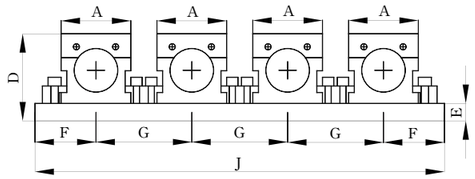
MODEL	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	L	M	NW
MV-100	102	435	340	65	25	102	47	85	15	125	125-190	125-230	125-320	130	125	16	25kg
MV-130	132	518	423	70	25	110	54	95	15	200	200-260	200-300	200-410	147	165	18	38kg
MV-160	162	592	497	85	25	130	57	105	15	240	240-315	240-360	240-470	160	165	18	59kg
MV-160A	162	652	557	85	25	130	57	105	15	300	300-375	300-420	300-530	160	165	18	65kg
MV-200	202	670	570	90	25	139	62	110	18	300	300-375	300-425	300-560	170	190	18	80kg

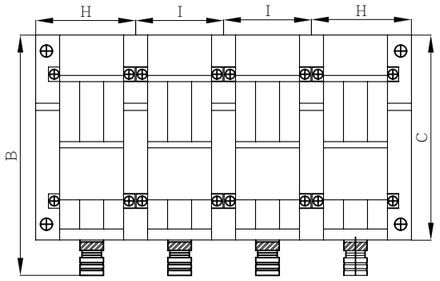
● Standard Accessories：1.Handle*1pc 2.Guide Key*2pcs/M6×12L*2pcs 3.Vise Locked Block*4pcs
4.Screw 16M×75L*4pcs 5.T-Type Screw 16M*4pcs 6.Washer 16M*4pcs
● Optional Accessories： Special Application Jaw Plates
● 標準附件：1.把手一組 2.導正鍵2只 / 螺絲*2只(M6*12L) 3.虎鉗固定塊4只 4.螺絲16M*75L*4支
5.T型螺帽16M*4只 6.華司16M*4片
● 特殊附件：特殊虎口板 (大開口用的虎口板)

MC 並列式2.3.4台增壓角固虎鉗
MC 2.3.4 MULTIPLY HYDRAULIC ANGLE LOCK VISE

MODEL：MHV-100-2S
MHV-100-3S
MHV-100-4S
MHV-130-2S
MHV-130-3S
MHV-130-4S
MHV-160-2S
MHV-160-3S
MHV-160-4S



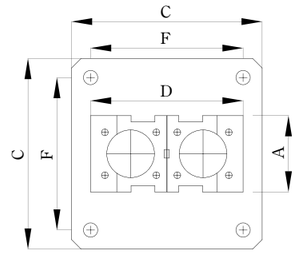


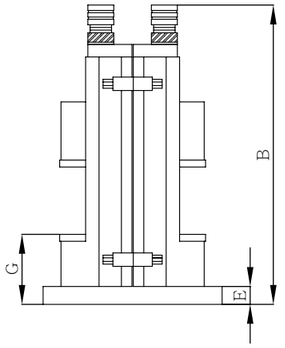


MODEL	A	B	C	D	E	F	G	H	I	J	N.W. (Kg)
MHV-100-2S	102	475	358	163	30	105	300	180	150	510	94
MHV-100-3S	102	475	358	163	30	105	150	180	150	510	119
MHV-100-4S	102	475	358	163	30	105	150	180	150	660	156
MHV-130-2S	132	540	427	182	35	120	360	210	180	600	147
MHV-130-3S	132	540	427	182	35	120	180	210	180	600	185
MHV-130-4S	132	540	427	182	35	120	180	210	180	780	245
MHV-160-2S	162	629	513	200	40	140	440	250	220	720	236
MHV-160-3S	162	629	513	200	40	140	220	250	220	720	295
MHV-160-4S	162	629	513	200	40	140	220	250	220	940	390

MC 直立式2.4台增壓角固虎鉗
MC 2.4 VERTICAL HYDRAULIC ANGLE LOCK VISE

MODEL：MHV-100-2V、MHV-100-4V
MHV-130-2V、MHV-130-4V
MHV-160-2V、MHV-160-4V
MHV-200-2V、MHV-200-4V

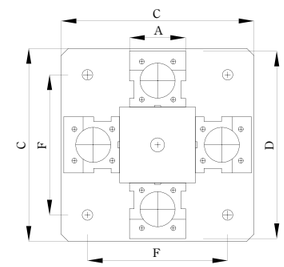


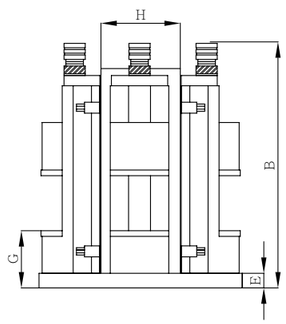


MODEL	A	B	C	D	E	F	G	N.W.
MHV-100-2V	102	515	300	266	40	200	134	79kg
MHV-100-4V	102	515	400	266	40	320	134	151kg
MHV-130-2V	132	580	300	294	40	200	152	105kg
MHV-130-4V	132	580	400	294	40	620	152	203kg
MHV-160-2V	162	669	400	320	40	320	156.5	169kg
MHV-160-4V	162	669	500	320	40	400	156.5	315kg
MHV-200-2V	202	750	400	340	40	320	169	211kg
MHV-200-4V	202	750	500	340	40	400	169	399kg

MC 直立式4台增壓角固虎鉗附治具桶
MC 4 VERTICAL ON BLOCK HYDRAULIC ANGLE LOCK

MODEL：MHV-100-4VB、MHV-130-4VB
MHV-160-4VB、MHV-200-4VB





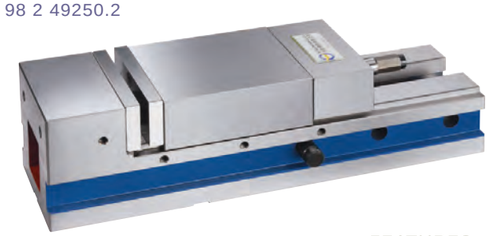
MODEL	A	B	C	D	E	F	G	H	N.W.
MHV-100-4VB	102	515	450	416	40	320	134	150	200kg
MHV-130-4VB	132	580	500	474	40	320	152	180	300kg
MHV-160-4VB	162	669	550	530	40	400	156.5	210	440kg
MHV-200-4VB	202	755	600	590	45	500	174	250	560kg

MC 內藏式增壓角固虎鉗
MC HYDRAULIC ANGLE LOCK VISE (BUILT-IN TYPE)

MODEL：MHA-100、MHA-150、MHA-200

本增壓系統保固一年

★PATENT：152071
ZL 98 2 49250.2



★虎鉗可側立使用
VISE CAN SIDE-LOCK TO WORK.

角固式配合"半圓球體"下鎖之力，可防止工件上浮。
Down thrust with "semi-sphere" to prevent work-piece lift.

特點：

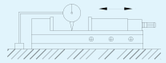
1.虎鉗本台採用球狀石墨化鑄鐵FCD60材質。
2.角固式配合"半圓球體"下鎖之力，可防止工件上浮。
3.虎鉗可以側立使用。(側立垂直90° 公差=0.015/100mm)
4.虎鉗滑動面均經硬化熱處理 HRC45°，堅固耐用、確保精度。
5.虎鉗的滑動上蓋座可取出，方便清除虎鉗內部之鐵屑。
6.虎鉗本體的高度與導正鍵槽皆做定寸管制，可以2、3、4台一起使用。

FEATURES：

1.Vise body is made of ductile iron FCD 60.
2.Down thrust with "semi-sphere" to prevent work-piece lift.
3.Vise can side-lock to work. (Perpendicular of side lock 90°=0.015/100mm)
4.Vise bed hardened to HRC 45° and maintain accuracy for long.
5.Vise slide-chunk can take out, Convenient to clean away chips and inside of vise.
6.Vise bed height-size and guide block side are all made with full control, can 2,3,or 4 vises to perform a job at a time.

NO.	檢 查 項 目 Inspection Item (100mm)	容許值 Allowance	
		JIN YEAR	JIS CLASS
1	鉗口面對本台底面導正鍵槽之平行度 Parallelism of guide block side of body bottom face and fixed jaw clamp face.	0.01	0.015
2	鉗口面對滑動面之垂直度 Squareness of fixed jaw clamp face and jaw slideway.	0.015	0.03
3	雙側面對滑動面之垂直度 Vise side-lock on bottom with the slide way in vertical.	0.02	0.02
4	本台滑動面對底面之平行度 Parallelism of body bottom face and jaw slideway.	0.01	0.015
5	工件夾緊後之上浮量 Top face lift of test block in clamping.	0.02	0.03
6	工件夾緊後之平行度 Parallelism of top face of clamped test block in clamping.	0.015	0.02

1.

4.


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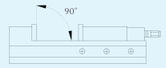

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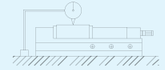

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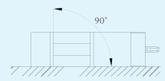

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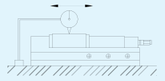
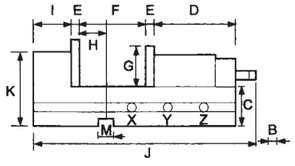
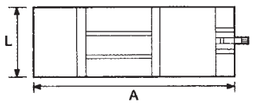
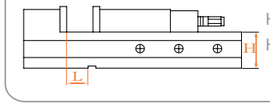






★每台虎鉗的高度與導正鍵槽皆做定寸管制。
The height and the guide block side of every vise are all made with full control.

L-尺寸公差限度0.02或少於
L- Dimension tolerance 0.02 or less.

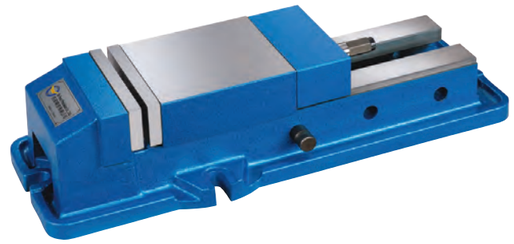


H-尺寸公差限度0.02或少於。
H- Dimension tolerance 0.02 or less.

MODEL	A	B	C	D	E	夾持範圍 Clamping range F			G	H	I	J	K	L	M	f	夾持力 (kgf)	重量 (kg)
						X	Y	Z										
MHA-100	404	14	62	208	12.5	0-85	85-170		42	45	64.5	450 540	102	105	16	50	2500	22
MHA-150	507	19	85	243	15.5	0-90	90-180	180-270	57	65	84.5	620 710	140	152	18	90	5000	50
MHA-200	606	19	95	257	18.5	0-100	100-200	200-300	62	82	89.5	655 755	162	200	18	150	7000	80

內藏式增壓角固虎鉗
HYDRAULIC ANGLE LOCK VISE (BUILT-IN TYPE)

MODEL：HA-150、HA-200



角固式配合"半圓球體"下鎖之力，可防止工件上浮。
Down thrust with "semi-sphere" to prevent work-piece lift.

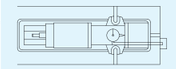
特點：

1.角固式配合"半圓球體"下鎖之力，可防止工件上浮。
2.虎角本台採用FC30鑄鐵材質。
3.虎鉗的滑動上蓋座可取出，方便清除虎鉗內部之鐵屑。

FEATURES：

1.Down thrust with "semi-sphere" to prevent work-piece lift.
2.Vise body is made of ductile iron FC 30.
3.Vise slide-chunk can take out, Convenient to clean away chips and inside of vise.

NO.	檢 查 項 目 Inspection Item (100mm)	容許值 Allowance	
		JIN YEAR	JIS CLASS
1	鉗口面對本台底面導正鍵槽之平行度 Parallelism of guide block side of body bottom face and fixed jaw clamp face.	0.01	0.015
2	鉗口面對滑動面之垂直度 Squareness of fixed jaw clamp face and jaw slideway.	0.02	0.03
3	兩邊鉗口之平行度 Both jaw plate parallelism.	0.015	0.02
4	本台滑動面對底面之平行度 Parallelism of body bottom face and jaw slideway.	0.01	0.015

1.


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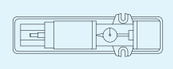

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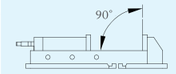

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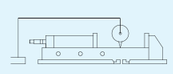
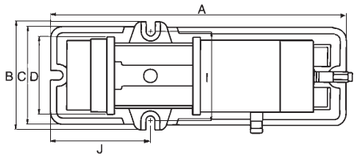
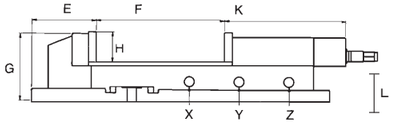






MODEL	A	B	C	D	E	F	G	H	I	J	K	L	X	Y	Z	PRESSURE	N.W.
HA-150	618	226	204	150	134	0-300	140	57	186	209	252	83	0-100	100-200	200-300	4500kgf	55kg
HA-200	695	278	230	200	148	0-300	157	64	237	260	270	102	0-100	100-200	200-300	8000kgf	92kg

內藏式增壓虎鉗
HYDRAULIC MACHINE VISE (BUILT-IN TYPE)

MODEL：HV-100、HV-130
HV-150、HV-200
本增壓系統保固一年
★PATENT：M314660

特點：

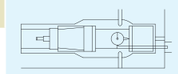
1.適合立式綜合切削加工機，銑床使用。
2.虎鉗本台使用高延展性鑄鐵，防止變形。
3.本壓力系統只須小小施力，便可發揮強大的夾持力。
4.三個夾持範圍設計，可快速變換且操作簡便。

FEATURES：

1. Most suitable for vertical machine center, milling machine.
2. Vise body is made of high quality ductile cast iron resists bending.
3. Pressure system for maximum clamping pressure with minimum force.
4. 3 clamping ranges design:Quick to change and easy to operate.
5. Vise pressure system with one year guarantee.

NO.	檢查項目 Inspection Item (100mm)	容許值 Allowance	
		JIN YEAR	JIS CLASS
1	鉗口面對本台底面導正鍵槽之平行度 Parallelism of guide block side of body bottom face and fixed jaw clamp face.	0.01	0.015
2	鉗口面對滑動面之垂直度 Squareness of fixed jaw clamp face and jaw slideway.	0.02	0.03
3	兩邊鉗口之平行度 Both jaw plate parallelism.	0.015	0.02
4	本台滑動面對底面之平行度 Parallelism of body bottom face and jaw slideway.	0.01	0.015

1.



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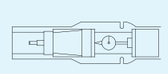

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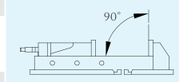

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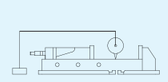
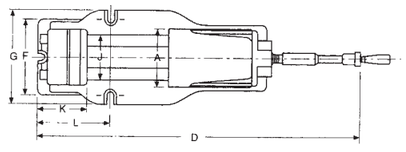
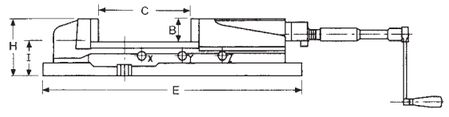


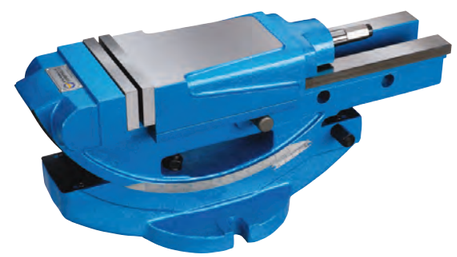




MODEL	A	B	C	D	E	F	G	H	I	J	K	L	Clamping range			Clamping force (kgf)	Weight(kg)	
													X position	Y position	Z position		Table	Disk Rotary
HV-100	105	36	170	525	440	135	170	95	58	80	95	147	0-57	55-114	112-170	2500	21	7
HV-130	130	48	220	670	550	175	207	120	70.5	97	107	195	0-73	72-146	145-220	3500	38	8
HV-150	150	53	300	800	620	182	225	135	82.5	116	117	210	0-100	98-200	198-300	4500	53	11
HV-200	200	62	300	900	680	260	280	162	100	160	150	260	0-100	99-200	198-300	8000	95	13

傾斜式增壓虎鉗
TILTING HYDRAULIC VISE

MODEL：THV-100
THV-150
★本增壓系統保固一年
PATENT：M314660

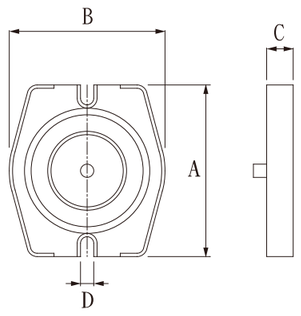


特點：

本虎鉗不同於一般的銑床虎鉗，可依不同需求直接調整出加工角度，其垂直方向調整角度可從0至45度自由調整，刻劃的度數極為精確，可直接調整出加工角度。

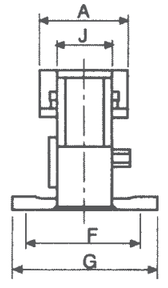
FEATURES：

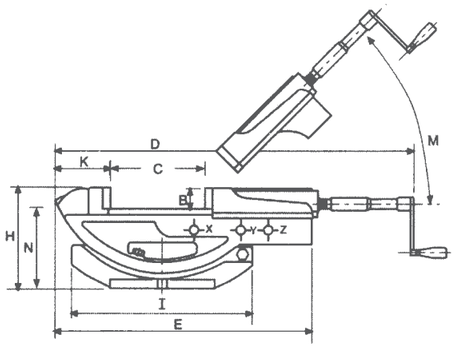
The vise is different from general vise use for miller. It can be adjusted the angle for processing requirement, and its vertical angle can be adjusted freely 0-45.The graduation is very precise. You may read the processing angle clearly from the scale.



SWIVEL BASE 迴轉底盤

ORDER NO.	A	B	C	D	G.W.(kg)
HS-4	270	240	40.7	15	7
HS-5	292	267	44	17	8
HS-6	330	300	40.8	17	11
HS-8	380	345	42.2	19	13





MODEL	A	B	C	D	E	F	G	H	I	J	K	M	N	夾持力 (kgf)	Weight(kg)	
THV-100	105	36	0-170	547	404	106	165	191	340	80	92	0°～45°	155	2500	Body 26kg	Swivel base 7kg
THV-150	150	53	0-300	790	580	165	225	250	435	116	123	0°～45°	197	4500	Body 70kg	Swivel base 11kg

MC 精密型空油壓式角固虎鉗
MC PNEUMATIC PRECISION ANGLE LOCK VISE

MODEL：JPV-4"-100、JPV-5"-150、JPV-6"-160、JPV-6"-250
JPV-7"-200、JPV-8"-200、JPV-8"-300

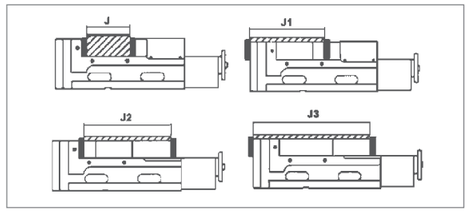
★PATENT：163999・172816
美國：US6409482

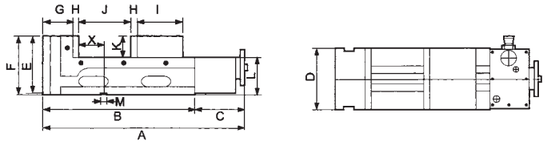
特點：

1.超高夾持力、空壓源8kg/cm²之低壓源，即可達9000kgf之超高夾持力，而夾持力從0-9000kgf由調壓器自由設定。
2.手輪人性化設計，不需使用任何把手，直接轉動特製手輪，即可移動上蓋，以利夾持動作。
3.立、側、臥三用，定寸規格。
4.內藏角固下壓結構。

FEATURES：

1.Super high-clamping force, Even the air source at low pressure 8kg/cm^2 Which can be achieved super high-clamping force 9000kgf, and the 0~9000kgf clamping force can be adjust freely.
2.Humanize designs of handwheel. You can turn the special handwheel directly and to move the cover and unused other handle to reach for clamping actions.
3.Triple usage of vertical, side and horizontal.
4.Pressed down structure.

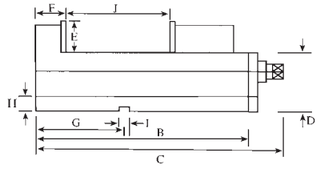


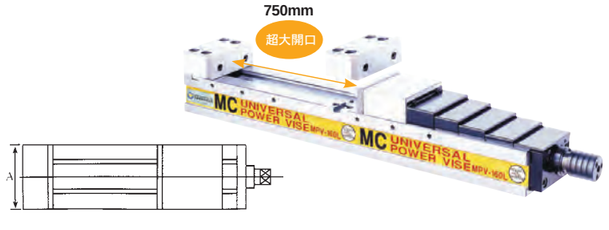


Model	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	L	M	X	Clamping Force (kgf)	N.W. (kg)	G.W. (kg)
JPV-4"-100	435	320	140	100	145	148	85	15	100	0-100	95-220	100-200	200-300	48	100	16	45	3200	27	29
JPV-5"-150	520	380	140	130	157	160	85	15	110	0-150	95-250	110-275	200-380	55	105	18	45	6000	38	40
JPV-6"-160	540	400	140	160	157	160	87	15	120	0-160	95-260	120-295	210-400	55	105	18	45	6000	48	50
JPV-6"-250	630	490	140	160	157	160	87	15	120	0-250	95-350	120-395	210-490	55	105	18	45	6000	54	56
JPV-7"-200	580	440	140	180	170	173	90	18	130	0-200	100-290	130-330	220-440	63	110	18	72	9000	65	72
JPV-8"-200	610	470	140	200	170	173	90	18	140	0-200	100-310	140-360	230-470	63	110	18	72	9000	70	80
JPV-8"-300	710	570	140	200	170	173	90	18	140	0-300	100-410	140-460	230-570	63	110	18	72	9000	79	90

MC 精密增壓虎鉗（大開口）
MC PRECISION HYDRAULIC VISE(LONG OPENING)

MODEL：MHV-160LS、MHV-200LS
MHV-160L、MHV-200L

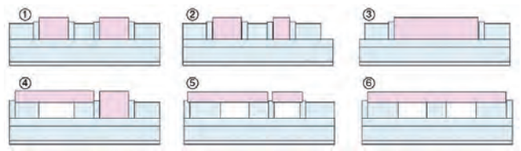


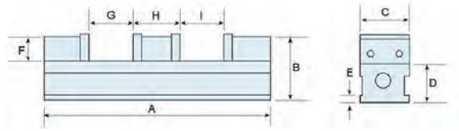


Model	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	Clamping Force (kgf)	N.W. (kg)	G.W. (kg)
MHV-160LS	160	725	860	105	60	103	200	23	18	500	580	620	720	4400	80	91
MHV-200LS	200	835	970	110	60	108	220	23	18	600	690	730	830	5500	100	115
MHV-160L	160	1000	1130	105	60	103	200	23	18	750	850	890	1000	4400	90	108
MHV-200L	200	1100	1230	110	60	108	220	23	18	840	940	990	1100	5500	130	145

MC 雙夾式虎鉗
MC PRECISION DOUBLE-LOCK VISE

MODEL : MLD-100, MLD-160



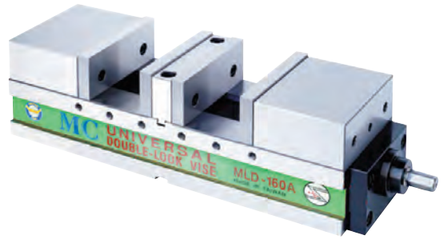


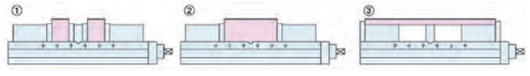
★ 虎鉗有六種夾持方式，供您選擇。
★ Vise have 6 ways of clamping For you to choose

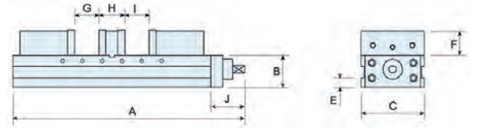
★ 工作物件大小差距在75mm以內可以調整夾持。
★ The workpiece size within 75mm able to adjustable

MODEL	A	B	C	D	E	F	G	H	I	N.W.
MLD-100	400	105	100	65	23	40	55	60	55	25kg
MLD-160	500	145	160	90	23	60	75	66	75	50kg

MODEL : MLD-100A, MLD-160A







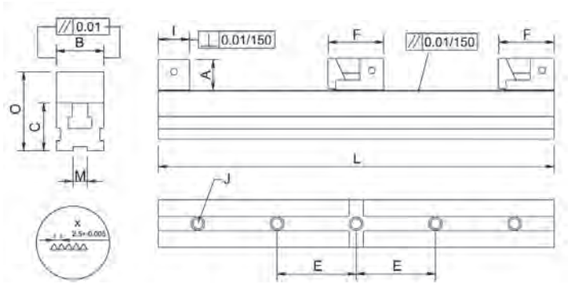
★ 工作物件大小差距在4mm以內可以調整夾持。
★ The workpiece size within 4mm able to adjustable

★ 虎鉗有三種夾持方式，供您選擇。
★ Vise have 3 ways of clamping For you to choose

MODEL	A	B	C	D	E	F	G	H	I	J	N.W.
MLD-100A	470	105	100	65	23	40	55	60	55	70	25kg
MLD-160A	580	145	160	90	23	60	75	66	75	80	50kg

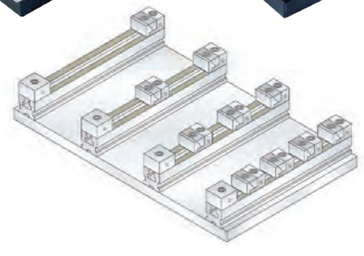
彈性化並列式虎鉗
FLEXIBLE ROW VISE

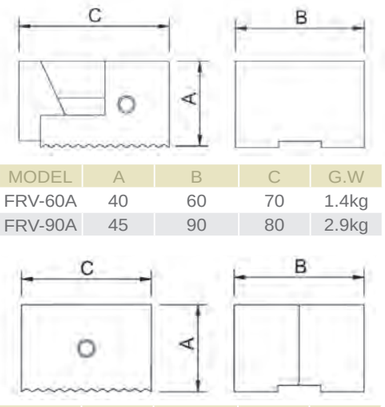
MODEL： FRV-6025、6040、6050、6063
FRV-9025、9040、9050、9063



MODEL	A	B	C	E	F	I	J	L	M	O	G.W
FRV-6025	40	60	60	100	70	60	M12	250	18	100	6.5kg
FRV-6040	40	60	60	100	70	60	M12	400	18	100	9.5kg
FRV-6050	40	60	60	100	70	60	M12	500	18	100	11.5kg
FRV-6063	40	60	60	100	70	60	M12	630	18	100	13.5kg

MODEL	A	B	C	E	F	I	J	L	M	O	G.W
FRV-9025	45	90	70	100	80	70	M16	250	18	115	11kg
FRV-9040	45	90	70	100	80	70	M16	400	18	115	16kg
FRV-9050	45	90	70	100	80	70	M16	500	18	115	19.5kg
FRV-9063	45	90	70	100	80	70	M16	630	18	115	23.5kg





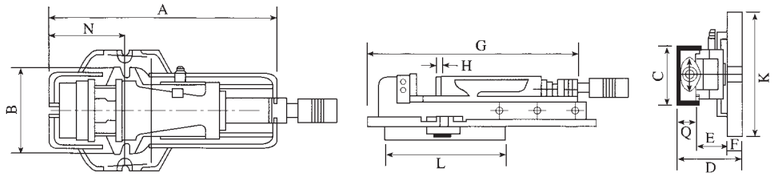
MODEL	A	B	C	G.W
FRV-60A	40	60	70	1.4kg
FRV-90A	45	90	80	2.9kg

MODEL	A	B	C	G.W
FRV-60B	40	60	60	1.4kg
FRV-90B	45	90	70	2.9kg

	1	1 2	1 2 3	1 2 3 4
FRV-6025	120	25		
FRV-6040	270	100	43	15
FRV-6050	370	150	76	40
FRV-6063	500	215	120	73
FRV-9025	99			
FRV-9040	249	84	29	
FRV-9050	349	134	62	26
FRV-9063	479	199	106	59

外藏式增壓角固虎鉗
HYDRAULIC ANGLE LOCK VISE (BUILT-OUT TYPE)

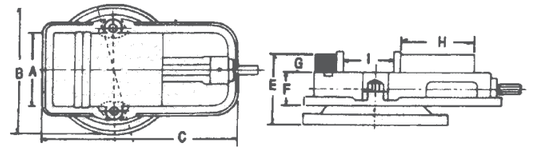
MODEL：HVO-160



MODEL	A	B	C	D	E	F	G	H	I	J	K	L	行程開口			Q	本體重	盤重	挾持力
													N	O	P				
HVO-160	620	240	170	183	80	39	500-1050	18	220	300	340	320	0-100	100-200	200-300	64	58	15	4000

精密型角固虎鉗
PRECISION ANGLE LOCK MACHINE VISE

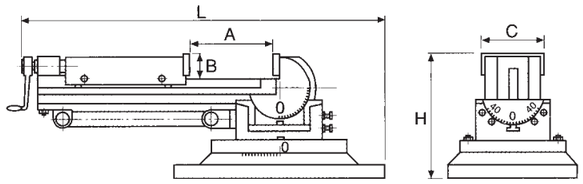
MODEL：AV-4"、AV-5"、AV-6"、AV-6"開8"、AV-8"



MODEL	A	B	C	E	F	G	H	I	Weight(kg)
AV-4"	100	220	320	133	65	38	115	110	19
AV-5"	125	240	360	146	70	38	132	130	29
AV-6"	150	290	430	161	72	48	170	150	48
AV-6" 開8"	150	310	405	155	72	40	125	198	50
AV-8"	200	370	600	193	85	58	190	200	90

三向式角度虎鉗
UNIVERSAL 3-WAY TILTING VISE

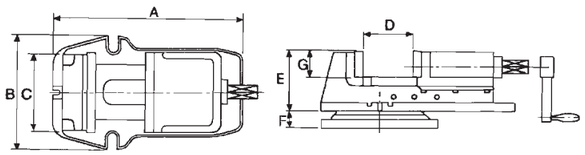
MODEL：WV-3″ 、WV-4″ 、WV-5″



MODEL	A	B	C	H	L	垂直高度 Height at vertical position	Weight(kg)
WV-3"	90	30	80	144	400	385	15
WV-4"	105	38	106	172	460	470	32
WV-5"	140	40	132	205	590	590	50

超大開口虎鉗
SUPER OPEN MILLING VISE

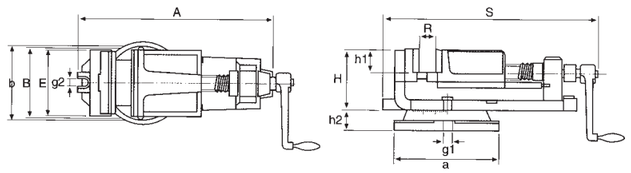
MODEL：JV-100、JV-130、JV-150



MODEL	A	B	C	D	E	F	G	Weight (kg)
JV- 100	390	164	110	180	95	41	37	21
JV- 130	450	194	130	235	114	42	48	32
JV- 150	540	200	152	300	131	42	54	45

K 型虎鉗
K-TYPE MILLING VISE

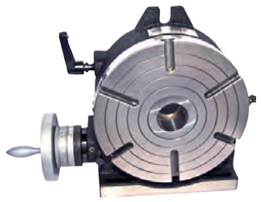
MODEL：4K、5K、6K、8K

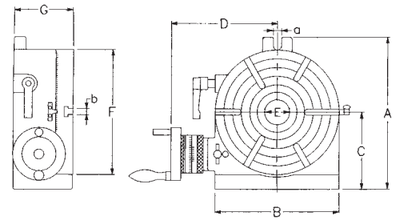


MODEL	E	A	B	H	R	S	a	b	h1	h2	g1	g2	Weight (kg)
4K	100	267	106	75	62	295	160	114	30	25	13	13	11
5K	125	345	128	98	85	370	208	150	37	30	12	12	17
6K	150	421	160	105	114	462	245	175	40	40	16	16	28
8K	200	576	215	144	150	620	340	230	58	45	18	18	58

強力型立臥分度盤
SUPER HORIZONTAL & VERTICAL ROTARY TABLE

MODEL：SRT-200 、SRT-250 、SRT-300



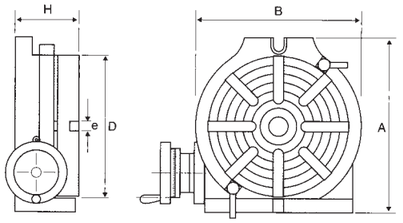


Unit:mm

Model	A	B	C	D	E	F	G	a	b	Weight (kg)
SRT-200	280	200	150	215	50	200	120	16	12	33
SRT-250	310	250	155	217	50	250	120	16	12	43
SRT-300	365	300	180	252	50	300	120	16	15	57

立臥分度盤
HORIZONTAL & VERTICAL ROTARY TABLE

MODEL：RT- 6″、RT-14″、RT-16″



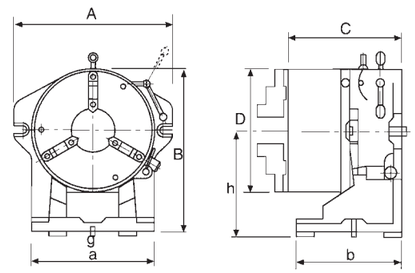
Unit:mm

MODEL	D	H	A	B	e	中心孔 Center	齒數比 Gear ratio	Weight (kg)
RT- 6"	150	82	200	195	11	MT#2	90:1	12
RT-14"	350	140	460	380	16	MT#4	90:1	95
RT-16"	400	155	510	435	16	MT#5	90:1	130

簡易型快速分度盤
SIMPLE INDEXING SPACER

MODEL：CC-6 、CC-8

OPTIONAL ACCESSORY：
6"3-Jaw Chuck for CC-6", 8"3-Jaw Chuck for CC-8"



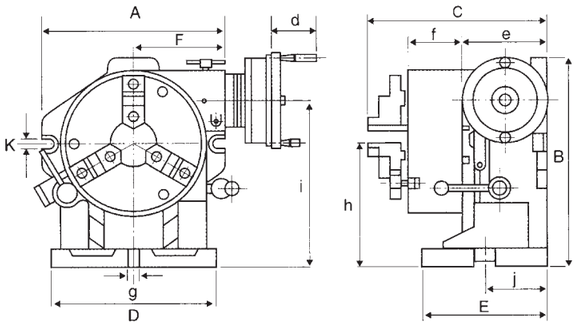
Unit:mm

MODEL	直接分割等份 Direct dividing	A	B	C	D	a	b	h
CC-6	2,3,4,6,8,12,24	260	218	156	167	220	130	130
CC-8	2,3,4,6,8,12,24	318	318	177	210	228	140	150

三爪 Three jaw	鍵槽寬 Width of Key(s) (g)	外爪 Outside Jaw	三爪內孔 Inside Hole	轉塔內孔 Inside hole of ratary tower	Weight (kg)
4-42	16	10-156	44	36	32
4-62	16	10-180	63	63	70

強力型快速分度盤
SUPER INDEXING SPACER

MODEL：CS-6、CS-8



OPTIONAL ACCESSORY:
6"3-Jaw Chuck for CS-6", 8"3-Jaw Chuck for CS-8"

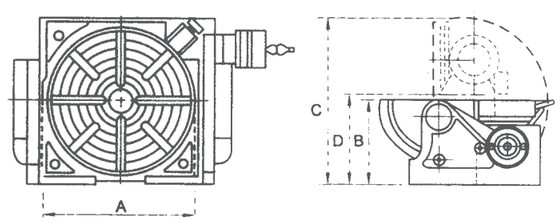
Unit:mm

MODEL	直接分割等份 Direct dividing	盤外徑 Outside dia. of disc	內爪 Inside Jaw	外爪 Outside Jaw	中心孔徑 Dia. of central hole	外徑 Outside dia.	厚度 Thickness
CS-6	2,3,4,6,8,12,24	167	4-42	10-156	44	203	50
CS-8	2,3,4,6,8,12,24	210	4-62	10-180	33	254	58

MODEL	A	B	C	D	E	F	d	e	f	g	h	i	j	k	Weight (kg)
CS-6	250	235	221	220	150	117	82	112	66	16	130	186	80	18	35
CS-8	315	292	243	225	160	142	100	125	75	16	157	241	90	18	70

萬能型傾斜式分度盤
UNIVERSAL TILTING ROTARY TABLE

MODEL：TUT-300

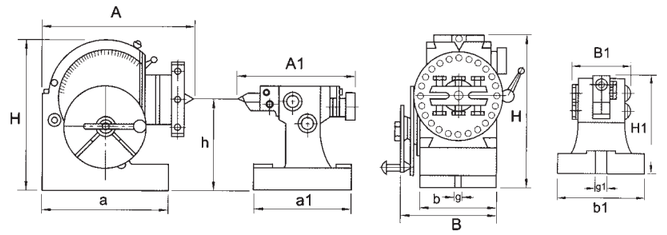


Unit:mm

MODEL	分割等分 Index no.	中心孔 Center	A	B	C	D	齒數比 Gear ratio	重量 (kg)
TUT-300	24	MT#3	305	172	366	192	90:1	97

分度頭 SEMI-UNIVERSAL DIVIDING HEAD

MODEL：BS-0、BS-1



OPTIONAL ACCESSORY:
3-Jaw Chuck:4" or 5"3-jaw Chuck for BS-0", 5"or 6"3-Jaw Chuck for BS-1

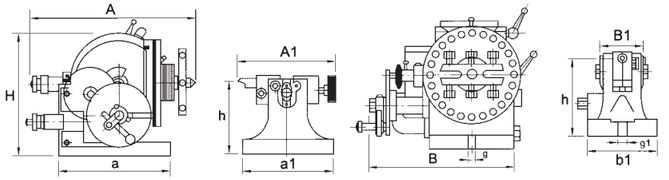
Unit:mm

MODEL	A	B	H1	h	a	b	g	中心孔	軸孔徑	Weight (kg)
BS-0	196	133	173	100	160	91	16	25	16	22
BS-1	253	163	220	126	207	114	16	25	20	36

MODEL	A1	B1	H1	h	a1	b1	g1
BS-0	182	82	123	100	155	110	16
BS-1	182	82	133	126	155	110	16

萬能分度頭 UNIVERSAL DIVIDING HEAD

MODEL：BS-2



OPTIONAL ACCESSORY：3-Jaw Chuck:6" or 7"3-jaw Chuck for BS-2

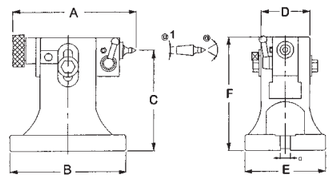
Unit:mm

MODEL	A	B	H1	h	a	b	g	中心孔	軸孔徑	Weight (kg)
BS-2	365	272	236	135	213	134	16	25	25.4	73

MODEL	A1	B1	H1	h	a1	b1	g1
BS-2	182	88	156	135	175	124	16

強力型多功能尾座 TAIL STOCK

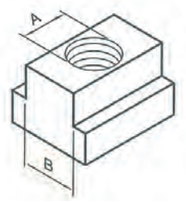
MODEL：TS-155、TS-180

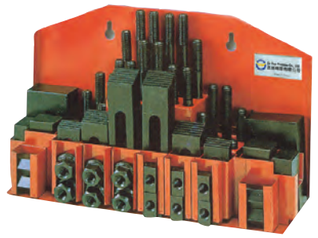


Unit:mm

MODEL	A	B	最高 highest	中心高 center	最低 lowest	D	E	F	a	@1	@	Weight (kg)	適用機型 suitable for
TS-155	192	180	170	155	140	76	126	175	16	10"	60"	9	CC8" CS-8" THV-8",10"
TS-180	192	180	195	180	165	76	126	200	16	10"	60"	10	THV-12"

CK系列 萬能夾具組-52PCS 52-PCS STEEL CLAMPING KIT





標準附件：

1.雙頭螺絲桿24支:英制螺絲桿規格長度有:(3",4",5",6",7",8"各4支)或者是公制螺絲桿:(75,100,125,150,175,200mm各4支)
2.T型螺帽6個.
3.法蘭螺帽6個.
4.接頭螺帽4個.
5.單頭壓板6個.
6.三角級枕6組.
7.每個都可以單獨訂購.

Standard Accessory：

1.Clamping Studs 24pcs:(4 ea.3",4",5",6",7",8")
Or:(4 ea.75,100,125,150,175,200mm).
2.T-Nuts 6pcs.
3.Flange Nuts 6pcs.
4.Coupling Nuts 4pcs.
5.Step Clamps 6pcs.
6.Step Blocks 6pcs.
7.The parts of every specification all can be purchased individually.

Unit:inch

MODEL	Table Slot (B)	Stud Size (A)	G.W. (kg)
CK-103A	7/16"	3/8"-16W	7
CK-103B	1/2"	3/8"-16W	7
CK-104A	9/16"	1/2"-12W	9.5
CK-104B	5/8"	1/2"-13W	10
CK-105A	11/16"	5/8"-11W	13
CK-105B	3/4"	5/8"-11W	13
CK-206A	13/16"	3/4"-10W	25
CK-206B	7/8"	3/4"-10W	25

Unit:mm

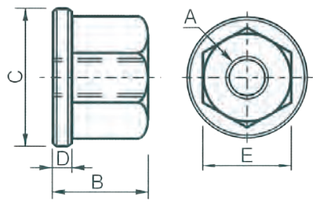
MODEL	Table Slot (B)	Stud Size (A)	G.W. (kg)
CK-08	10	M8-1.25P	7
CK-10	12	M10-1.5P	10
CK-12A	14	M12-1.75P	9.5
CK-12B	16	M12-1.75P	10
CK-14	16	M14-2.0P	11
CK-16	18	M16-2.0P	13
CK-18	20	M18-2.5P	25
CK-20	22	M20-2.5P	26

法蘭螺帽 FLANGE NUT

材質 Material：S45C
硬度 Hardness：HRC 30-35°

Unit:inch

MODEL	A	B	C	D	E
FN-5/16"	5/16-8	14	19	4	14
FN-3/8"	3/8-16	17	22	4	14
FN-1/2"A	1/12-12	21	28	5	18
FN-1/2"B	1/2-13	22	28	5	18
FN-5/8"	5/8-11	26	35	6	20
FN-3/4"	3/4-10	32	40	7	25
FN-7/8"	7/8-9	35	45	9	28
FN-1"	1"-8	41	50	9	32



Unit:mm

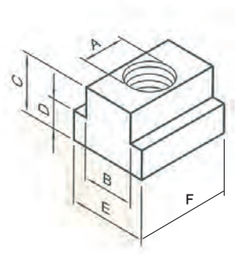
MODEL	A	B	C	D	E
FN-M8	M8*1.25P	14	19	4	14
FN-M10	M10*1.5P	17	22	4	14
FN-M12	M12*1.75P	19	28	5	17
FN-M14	M14*2.0P	22	28	5	17
FN-M16	M16*2.0P	26	35	6	20
FN-M18	M18*2.5P	32	40	7	25
FN-M20	M20*2.5P	32	40	7	25
FN-M24	M24*3.0P	41	50	9	32

T 型螺帽 T-SLOT NUT

材質 Material：S45C
硬度 Hardness：HRC 30-35°

Unit:inch

MODEL	A	B	C	D	E	F
TN-3/8A	3/8-16	11	13	6	18	22
TN-3/8B	3/8-16	12	13	6	22	22
TN-1/2A	1/2-12	14	16	8	22	28
TN-1/2B	1/2-13	16	16	8	25	28
TN-5/8A	5/8-11	18	20	11	28	32
TN-5/8B	5/8-11	19	20	11	32	32
TN-3/4A	3/4-10	21	25	14	32	38
TN-3/4B	3/4-10	22	25	14	38	38



Unit:mm

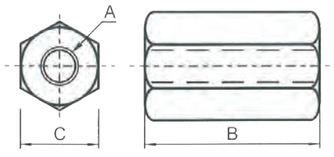
MODEL	A	B	C	D	E	F
TN-8	M8*1.25P	10	12	6	16	22
TN-10	M10*1.5P	12	14	7	18	22
TN-12A	M12*1.75P	14	16	8	22	28
TN-12B	M12*1.75P	16	16	8	25	28
TN-14	M14*2.0P	16	16	8	25	28
TN-16	M16*2.0P	18	20	11	28	32
TN-18	M18*2.5P	20	24	12	32	38
TN-20	M20*2.5P	22	28	14	32	38

接頭螺帽 COUPLING NUT

材質 Material：S45C
硬度 Hardness：HRC 30-35°

Unit:inch

MODEL	A	B	C
CN-5/16"	5/16-18	22	13
CN-3/8"	3/8-16	22	17
CN-1/2"A	1/2-12	32	21
CN-1/2"B	1/2-13	32	22
CN-5/8"	5/8-11	40	26
CN-3/4"	3/4-10	48	32
CN-1"	1"-8	64	41

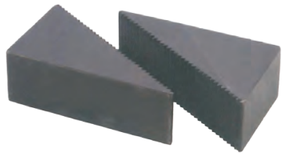


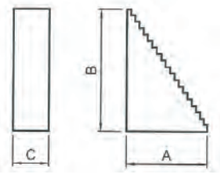
Unit:mm

MODEL	A	B	C
CN-M8	M8*1.25P	22	13
CN-M10	M10*1.5P	25	17
CN-M12	M12*1.75P	32	19
CN-M14	M14*2.0P	32	22
CN-M16	M16*2.0P	40	26
CN-M18	M18*2.5P	48	32
CN-M20	M20*2.5P	48	32
CN-M24	M24*3.0P	64	41

三角級枕 STEP BLOCK

材質 Material：S45C
硬度 Hardness：HRC 32-38°

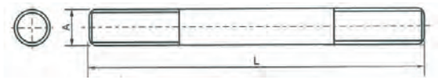




MODEL	A	B	C
SB25-18(30)	18	30	25
SB25-28(44)	28	44	25
SB25-59(98)	59	98	25
SB32-22(38)	22	38	32
SB32-28(44)	28	44	32
SB32-59(98)	59	98	32
SB38-38(60)	38	60	38
SB38-59(98)	59	98	38
SB38-85(140)	85	140	38

雙頭螺絲 CLAMPING STUD

材質 Material：S54C
硬度 Hardness：HRC 25-30°



Unit:inch

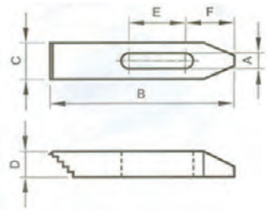
MODEL	A	L	MODEL	A	L	MODEL	A	L	MODEL	A	L
S-3/8"- 3"	3/8"-16	3"	S-1/2"A- 3"	1/2"-12	3"	S-5/8"- 3"	5/8"-11	3"	S-3/4"- 3"	3/4"-10	3"
S-3/8"- 4"		4"	S-1/2"A- 4"		4"	S-5/8"- 4"		4"	S-3/4"- 4"		4"
S-3/8"- 5"		5"	S-1/2"A- 5"		5"	S-5/8"- 5"		5"	S-3/4"- 5"		5"
S-3/8"- 6"		6"	S-1/2"A- 6"		6"	S-5/8"- 6"		6"	S-3/4"- 6"		6"
S-3/8"- 7"		7"	S-1/2"A- 7"		7"	S-5/8"- 7"		7"	S-3/4"- 7"		7"
S-3/8"- 8"		8"	S-1/2"A- 8"		8"	S-5/8"- 8"		8"	S-3/4"- 8"		8"
MODEL	A	L	MODEL	A	L	S-5/8"- 9"		9"	S-3/4"- 9"		9"
S-1/2"B- 3"	1/2"-13	3"	S-1"- 3"	1"-8	3"	S-5/8"- 10"		10"	S-3/4"- 10"		10"
S-1/2"B- 4"		4"	S-1"- 4"		4"	S-5/8"- 11"		11"	S-3/4"- 11"		11"
S-1/2"B- 5"		5"	S-1"- 5"		5"	S-5/8"- 12"		12"	S-3/4"- 12"		12"
S-1/2"B- 6"		6"	S-1"- 6"		6"	S-5/8"- 14"		14"	S-3/4"- 14"		14"
S-1/2"B- 7"		7"	S-1"- 7"		7"	S-5/8"- 16"		16"	S-3/4"- 16"		16"
S-1/2"B- 8"		8"	S-1"- 8"		8"	S-5/8"- 18"		18"	S-3/4"- 18"		18"
						S-5/8"- 20"		20"	S-3/4"- 20"		20"

Unit:mm

MODEL	A	MODEL	A	MODEL	A	MODEL	A	L
S-M8- 3"	M8*1.25P	S-M10- 3"	M10*1.5P	S-M12- 3"	M12*1.75P	S-M14- 3"	M14*2.0P	3"
S-M8- 4"		S-M10- 4"		S-M12- 4"		S-M14- 4"		4"
S-M8- 5"		S-M10- 5"		S-M12- 5"		S-M14- 5"		5"
S-M8- 6"		S-M10- 6"		S-M12- 6"		S-M14- 6"		6"
S-M8- 7"		S-M10- 7"		S-M12- 7"		S-M14- 7"		7"
S-M8- 8"		S-M10- 8"		S-M12- 8"		S-M14- 8"		8"
MODEL	A	MODEL	A	MODEL	A	MODEL	A	L
S-M16- 3"	M16*2.0P	S-M18- 3"	M18*2.5P	S-M20- 3"	M20*2.5P	S-M24- 3"	M24*3.0P	3"
S-M16- 4"		S-M18- 4"		S-M20- 4"		S-M24- 4"		4"
S-M16- 5"		S-M18- 5"		S-M20- 5"		S-M24- 5"		5"
S-M16- 6"		S-M18- 6"		S-M20- 6"		S-M24- 6"		6"
S-M16- 7"		S-M18- 7"		S-M20- 7"		S-M24- 7"		7"
S-M16- 8"		S-M18- 8"		S-M20- 8"		S-M24- 8"		8"

齒型壓板 STEP CLAMP

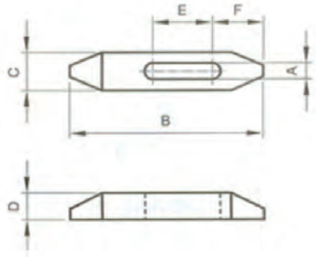
材質 Material：S45C
硬度 Hardness：HRC 32-38°



MODEL	A	B	C	D	E	F
SC11-64×25×13	11	64	25	13	25	15
SC11-100×25×16	11	100	25	16	45	20
SC11-152×28×19	11	152	28	19	64	25
SC14-64×28×13	14	64	28	13	25	15
SC14-100×32×19	14	100	32	19	45	20
SC14-152×32×22	14	152	32	22	64	25
SC18-64×32×16	18	64	32	16	25	15
SC18-100×38×19	18	100	38	19	45	20
SC18-152×38×22	18	152	38	22	65	25
SC21-100×38×19	21	100	38	19	45	20
SC21-152×38×25	21	152	38	25	65	25
SC21-200×44×28	21	200	44	28	90	40
SC26-152×50×32	26	152	50	32	65	25
SC26-200×50×35	26	200	50	35	90	40
SC26-250×50×35	26	250	50	38	110	60

標準壓板 PLAIN CLAMP

材質 Material：S45C
硬度 Hardness：HRC 32-38°



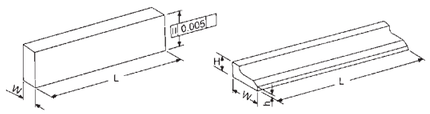
MODEL	A	B	C	D	E	F
PC14-64×28×13	14	64	28	13	25	15
PC14-100×32×19	14	100	32	19	45	20
PC14-152×32×22	14	152	32	22	65	25
PC18-64×32×16	18	64	32	16	25	15
PC18-100×38×19	18	100	38	19	45	20
PC18-152×38×22	18	152	38	22	65	25
PC21-100×38×19	21	100	38	19	45	20
PC21-152×38×25	21	152	38	25	65	25
PC21-100×44×28	21	100	44	28	90	40
PC26-152×50×32	26	152	50	32	65	25
PC26-200×50×35	26	200	50	35	90	40
PC26-250×50×38	26	250	50	38	110	60

虎鉗平行板
MILLING-GROUND PARALLELS

Wx Hx L(mm)x PCS
5x 16x 100x 2
6x 18x 100x 2
8x 24x 100x 2
10x 30x 100x 2
12x 36x 100x 2
14x 48x 150x 2
18x 60x 150x 2
22x 62x 150x 2

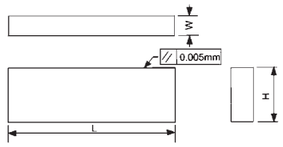
CLAMP SIZE
32x 15x 2.5x 200x 2

MODEL：GP-100
GROUND PARALLELS
Material：S45C
Hardness：HRC 50degree~ 55degree
N.W.：11 kg



W x H x L (mm) x PCS
8.5x14x150x2
8.5x16x150x2
8.5x20x150x2
8.5x24x150x2
8.5x30x150x2
8.5x32x150x2
8.5x36x150x2
8.5x40x150x2
8.5x44x150x2

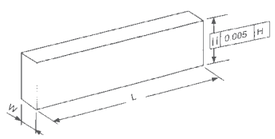
MODEL：GP-118
GROUND PARALLELS
Material：S45C
Hardness：HRC 50 degree~55 degree
N.W.：5.5kg



Wx Hx L(mm)x PCS
10x 14x 150x 2
10x 16x 150x 2
10x 18x 150x 2
10x 20x 150x 2
10x 22x 150x 2
10x 24x 150x 2
10x 26x 150x 2
10x 28x 150x 2

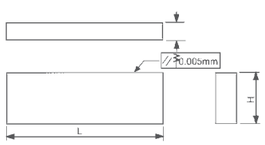
Wx Hx L(mm)x PCS
10x 30x 150x 2
10x 32x 150x 2
10x 35x 150x 2
10x 40x 150x 2
10x 45x 150x 2
10x 50x 150x 2

MODEL：GP-128
PRECISION PARALLELS
Material：S45C
Hardness：HRC 50degree ~ 55degree
N.W.：10.2 kg



Wx Hx L(mm)x PCS	Wx Hx L(mm)x PCS	Wx Hx L(mm)x PCS	Wx Hx L(mm)x PCS
8x 16x 150x 2	8x 34x 150x 2	8x 17x 150x 2	8x 35x 150x 2
8x 18x 150x 2	8x 36x 150x 2	8x 19x 150x 2	8x 37x 150x 2
8x 20x 150x 2	8x 38x 150x 2	8x 21x 150x 2	8x 39x 150x 2
8x 22x 150x 2	8x 40x 150x 2	8x 23x 150x 2	8x 41x 150x 2
8x 24x 150x 2	8x 42x 150x 2	8x 25x 150x 2	8x 43x 150x 2
8x 26x 150x 2	8x 44x 150x 2	8x 27x 150x 2	8x 45x 150x 2
8x 28x 150x 2	8x 46x 150x 2	8x 27x 150x 2	8x 47x 150x 2
8x 30x 150x 2	8x 48x 150x 2	8x 31x 150x 2	8x 49x 150x 2
8x 32x 150x 2	8x 50x 150x 2	8x 33x 150x 2	8x 51x 150x 2

MODEL：GP-136 A / B
PRECISION PARALLELS
Material:S45C
Hardness:HRC 50degree ~ 55degree
N.W.:12.5 kg



萬能磨刀機
(U2) Universal Cutter Grinder

MODEL：U2

特點：

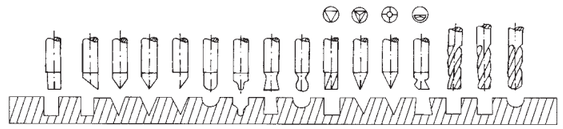
由於特殊之設計，萬能分度頭除有推拔角，離隙角之設置外，亦可提供360°，180°之旋轉，研磨各種圓、半圓、正斜度、倒錐度、直角之單鋒刀具。此外分度頭亦可作每隔15°之設定，研磨各種方形、菱形、三角形之刀具沖子等。加上特殊配件並可研磨端銑刀之螺旋刃口，標準鉆頭及車刀等。

FEATURES：

For grinding HSS and carbide engraving cutter as well as single lip or multiplelip cutters of various shapes such as radiused cutters or negative taper angle of cutters.
The universal index head is provided at 24 positions so that any particular angle or shape can be obtained, free 360° or 10° rotation is allowed for grinding End Mills.
Twist Drill, Lathe Tools, only replace the attachment to the index head without any complex setup.

規格 Technical Date
最大夾持直徑 Max. Collet capacity Ø18mm
最大研磨直徑 Max. Grinding dia. Ø25mm
推拔角度 Taper angle 0° -180°
離隙角 Relief angle 0° -45°
負推拔角度 Negative angle0° -26°
主軸轉速 Grinding spindle 3600r.p.m
皿型砂輪直徑 Cup grinding wheel 100*50*20mm
馬達 Motor1/3HP 220V 50/60HZ
淨重 Net weight 45Kgs
機械尺寸Machine dimensions (L*W*H) 45*40*35cm

刻刀與銑刀研磨成品一覽表



標準附件：

1.鑽石修刀
2.砂輪法蘭
3.砂輪
4.筒夾 Ø 4, 6, 8, 10, 12mm
5.校直器
6.皮帶
7.裝砂輪固定梢
8.固定砂輪工具

特別附件：

1.鑽頭研磨附件
2.銑刀研磨附件
3.車刀研磨附件
4.砂輪平衡架
5.筒夾 Collet 1,2, 2.5,3,5,7,9,18, 20,25mm,and 1/8″,3/16″ ,1/4″, 5/16″ ,3/8″ ,1/2″ ,5/8″
6.鑽石砂輪
7.刀具研磨附件
8. 工具櫃

Standard Accessory：

1.Wheel dresser with diamond 1pc
2.Wheel flange (mounted）1pc
3.Grinding wheel 1pc
4.ColletØ4 ,6, 8, 10, 12mm 5pcs
5.Aligning finger 1pc
6.Drive belt 1pc
7.Lock pin 1pc
8.Tools 1set

Optional Accessory：

1.Twist drill grinding attachment
2.END mill grinding attachment
3.Lathe tool grinding attachment
4.Grinding wheel balancing stand
5.Collet (extra 1,2,2.5,3,5,7,9,18, 20,25mm,and 1/8″,3/16″,1/4″, 5/16″,3/8″,1/2″,5/8″
6.Diamond grinding wheel
7.Ø20, 25 Cutter
8.Tool cabinet

車刀研磨附件
Lathe tool grinding attachment

鑽石砂輪
Diamond grinding wheel

鑽頭研磨附件
Twist drill grinding attachment
(Ø1.5~6mm)

銑刀研磨附件
END mill grinding attachment

高速精密切斷機
(C25) HIGH SPEED PRECISION CUTTING-OFF MACHINE

MODEL：C25

特點：

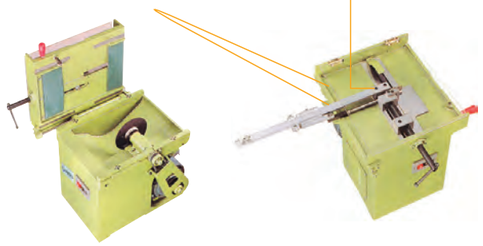
1.可以縮短工作時間，使用簡便、安全、精確。
2.模具射梢之切斷。
3.熱處理材料、不銹鋼之切斷面美觀，不起毛邊。
4.個體小，不佔空間。
5.無故障、無震動、無噪音、無灰塵。
6.砂輪換裝容易。

FEATURES：

1.Moveable shaft bearing, easy operation and safety.
2.For injecting pin cutting.
3.Good-looking cutting surface of stainless steel and heat-treated material.
4.Small size without occupying space.
5.Cause no vibration, no dust and noiseless.
6.Easy to exchange the emery wheel.

使用前先歸零，切斷後再使用
Please Calibrate the Scale and then pre-cut before using

大小V角槽（夾圖形體專用）
LARGE & SMALL V SLOT
（for round object clamping)



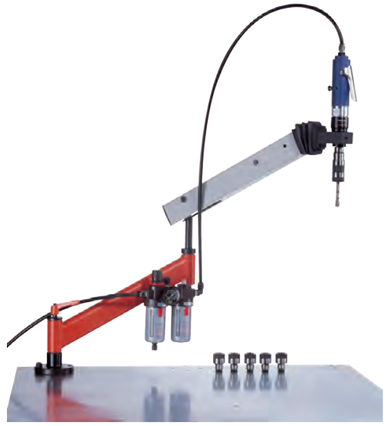
EASY TO CHANGE
THE EMERY WHEEL
容易拆卸砂輪

標準附件：
STANDARD ACCESSORIES：
砂輪（150×19.05mm）
EMERY WHEEL(150×19.05mm)

Model:C25	
最大切斷範圍 Max. cutting capacity	寬：100mm，Ø25
砂輪 Emery wheel	直徑：150mm 厚：1mm　孔：19.05mm
切斷精度 Cutting tolerance	20±0.10mm
轉速R.P.M.	3600
馬力Power	1/2HP
量尺Scale	300mm
重量Weight (Approx.)	淨重：85kgs　毛重：97kgs
機械尺寸Out-Line （LxWxH）	620x420x450mm

氣動攻牙機 － 工作範圍：50-700mm
AIR TAPPING MACHINE - WORK RANGE : 50-700mm

MODEL：AE-08-700、AE-12-700、AE-16-700、AE-20-700、AE-22-700、AE-24-700、AE-27-700



標準附件：

・氣動攻牙機主軸。
・伸長臂。
・固定座。
・三點組合。
・絲攻安全扭力筒夾，任選六種。
・搖臂

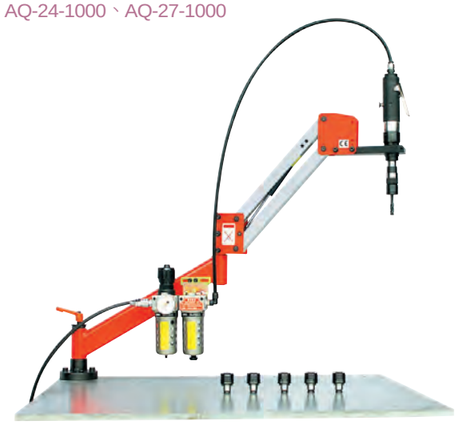
Standard Accessories：

・Air tapping spindle.
・Parallel arm.
・Table mounting column.
・Air unit.
・Choose any six safety clutch tapping adapters.
・Radial jib.

MODEL	AE-08-700	AE-12-700	AE-16-700	AE-20-700	AE-22-700	AE-24-700	AE-27-700
攻牙能力 For Tap	M2~M8	M3~M12	M3~M16	M3~M20	M3~M22	M3~M24	M3~M27
主軸轉速 Speed (rpm)	700	400	300	150/400	120/300	100/300	70/220
工作範圍 Work Range	Rmax 700mm				Rmin 50mm		
重量 Weight (kg)	15	15	19	20	20	20	20

氣動攻牙機 － 工作範圍：100-1000mm
AIR TAPPING MACHINE - WORK RANGE : 100-1000mm

MODEL：AQ-08-950、AQ-12-950、AQ-16-1000、AQ-20-1000、AQ-22-1000、AQ-24-1000、AQ-27-1000



標準附件：

・氣動攻牙機主軸。
・伸長臂。
・固定座。
・三點組合。
・絲攻安全扭力筒夾，任選六種。
・搖臂

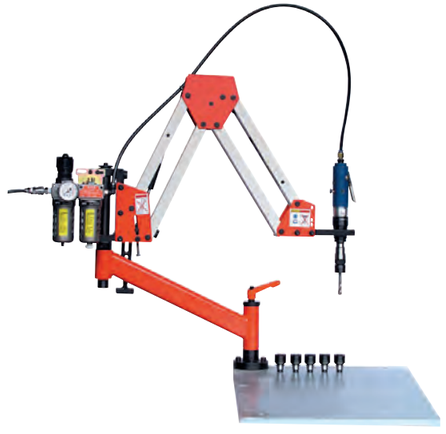
Standard Accessories：

・Air tapping spindle.
・Parallel arm.
・Table mounting column.
・Air unit.
・Choose any six safety clutch tapping adapters.
・Radial jib.

MODEL	AQ-08-950	AQ-12-950	AQ-16-1000	AQ-20-1000	AQ-22-1000	AQ-24-1000	AQ-27-1000
攻牙能力 For Tap	M2~M8	M3~M12	M3~M16	M3~M20	M3~M22	M3~M24	M3~M27
主軸轉速 Speed (rpm)	700	400	300	150/400	120/300	100/300	70/220
工作範圍 Work Range	Rmax 1000mm				Rmin 100mm		
重量 Weight (kg)	16	16	24	25	25	25	25

氣動攻牙機 － 工作範圍：200-1400mm
AIR TAPPING MACHINE - WORK RANGE : 200-1400mm

MODEL：AS-08/ II、AS-12/ II、AS-16/ II、AS-20/ II、AS-22/ II、AS-24/ II、AS-27/ II



標準附件：

- 氣動攻牙機主軸。
- 伸長臂。
- 固定座。
- 三點組合。
- 絲攻安全扭力筒夾，任選六種。
- 搖臂，可增強臂力至500mm。

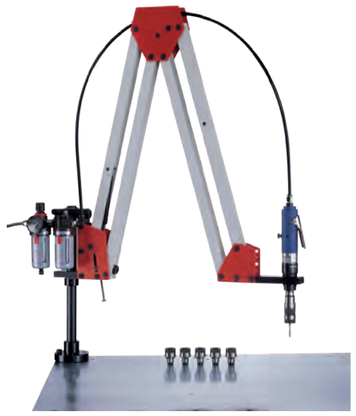
Standard Accessories：

- Air tapping spindle.
- Parallel arm.
- Table mounting column.
- Air unit.
- Choose any six safety clutch tapping adapters.
- Radial jib, increases arm reach by 500mm.

MODEL	AS-08/ II	AS-12/ II	AS-16/ II	AS-20/ II	AS-22/ II	AS-24/ II	AS-27/ II
攻牙能力 For Tap	M2~M8	M3~M12	M3~M16	M3~M20	M3~M22	M3~M24	M3~M27
主軸轉速 Speed (rpm)	700	400	300	150/400	120/300	100/300	70/220
工作範圍 Work Range	Rmax 1400mm				Rmin 200mm		
重量 Weight (kg)	21	21	26	27	27	27	27

氣動攻牙機 － 工作範圍：500-1600mm
AIR TAPPING MACHINE - WORK RANGE : 500-1600mm

MODEL：AT-08/ I、AT-12/ I、AT-16/ I、AT-20/ I、AT-22/ I、AT-24/ I、AT-27/ I



標準附件：

- 氣動攻牙機主軸。
- 伸長臂。
- 固定座。
- 三點組合。
- 絲攻安全扭力筒夾，任選六種。

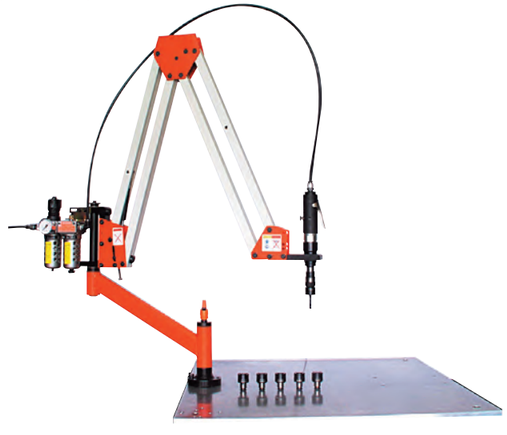
Standard Accessories：

- Air tapping spindle.
- Parallel arm.
- Table mounting column.
- Air unit.
- Choose any six safety clutch tapping adapters.

MODEL	AT-08/ I	AT-12/ I	AT-16/ I	AT-20/ I	AT-22/ I	AT-24/ I	AT-27/ I
攻牙能力 For Tap	M2~M8	M3~M12	M3~M16	M3~M20	M3~M22	M3~M24	M3~M27
主軸轉速 Speed (rpm)	700	400	300	150/400	120/300	100/300	70/220
工作範圍 Work Range	Rmax 1600mm				Rmin 500mm		
重量 Weight (kg)	20	20	25	36	36	36	36

氣動攻牙機 － 工作範圍：200-1900mm
AIR TAPPING MACHINE - WORK RANGE : 200-1900mm

MODEL：AT-08/ II、AT-12/ II、AT-16/ II、AT-20/ II、AT-22/ II、AT-24/ II、AT-27/ II



標準附件：

- 氣動攻牙機主軸。
- 伸長臂。
- 固定座。
- 三點組合。
- 絲攻安全扭力筒夾，任選六種。
- 搖臂，可增強臂力至500mm。

Standard Accessories：

- Air tapping spindle.
- Parallel arm.
- Table mounting column.
- Air unit.
- Choose any six safety clutch tapping adapters.
- Radial jib, increases arm reach by 500mm.

MODEL	AT-08/II	AT-12/ II	AT-16/ II	AT-20/ II	AT-22/ II	AT-24/ II	AT-27/ II
攻牙能力 For Tap	M2~M8	M3~M12	M3~M16	M3~M20	M3~M22	M3~M24	M3~M27
主軸轉速 Speed (rpm)	700	400	300	150/400	120/300	100/300	70/220
工作範圍 Work Range	Rmax 1900mm				Rmin 200mm		
重量 Weight (kg)	23	23	27	38	38	38	38

磁性座（氣動攻牙機用）
PORTABLE & MOVEABLE MAGNETIC BASE

MODEL：TLM-300、TLM-600

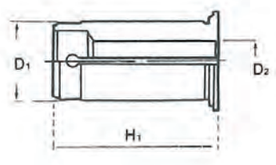
MODEL	Holding Power	Dimension (mm)	Model For Magnetic	Weight(kg)
TLM-300	300KG	150×90×93	AQ, AE, AS, AT-08, AT-12, AT-16	10
TLM-600	600KG	224×115×120	AT-20, AT-22, AT-24, AT-27	23

直束筒夾/筒夾組 STRAIGHT COLLET/ STRAIGHT COLLET SETS

MODEL	D1	D2	H1
SC12	12	3,4,5,6,7,8,9,10	40
SC16	16	3,4,5,6,7,8,9,10,11,12	42
SC20	20	4,6,8,10,12,14,16	52
SC25	25	6,8,10,12,16,20	63
SC32-Metric	32	6,8,10,12,16,20,25	71
SC32-Inch	32	1/4,5/16,3/8,1/2,5/8,3/4,1"	71
SC42	42	6,8,10,12,16,20,25,32	71

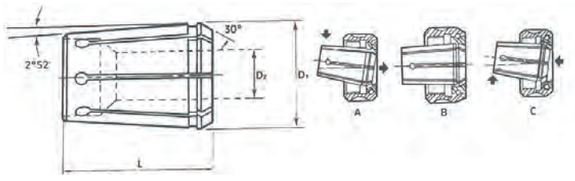
直束筒夾組 STRAIGHT COLLET SETS

MODEL	Specification
SC12-6PCS	3,4,5,6,8,10
SC16-6PCS	3,4,6,8,10,12
SC20-6PCS	6,8,10,12,14,16
SC25-6PCS	6,8,10,12,16,20
SC32-7PCS-Metric	6,8,10,12,16,20,25
SC32-7PCS-Inch	1/4,5/16,3/8,1/2,5/8,3/4,1"
SC42-8PCS	6,8,10,12,16,20,25,32



OZ 重切削筒夾/筒夾組 OZ COLLET/ COLLET SET

●Collet must be assembled into the clamping nut
before inserting into the chuck



OZ COLLET- INCH SIZE

MODEL	D1	L	D2
OZ25	35.5	52	1/8,3/16,4/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1"
OZ32	44	60	1/4,5/16,3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16,7/8,15/16,1",1-1/8",1-1/4"

OZ COLLET- METRIC SIZE (mm)

MODEL	D1	L	D2
OZ25	35.5	52	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
OZ32	44	60	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32

OZ COLLET CHUCK SET- INCH SIZE

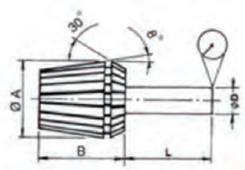
MODEL	COLLET SET SIZE	PCS
OZ25-7P(I)	1/4",5/16",3/8",1/2",5/8",3/4",1"	7
OZ25-15P(I)	1/8",3/16",1/4",5/16",3/8",7/16",1/2",9/16"	15
OZ32-10P(I)	1/4",5/16",3/8",1/2",5/8",3/4",7/8",1",1-1/8", 1-1/4"	10
OZ32-15P(I)	1/4",5/16",3/8",7/16",1/2",9/16",5/8",11/16",3/4",13/16",7/8",15/16",1",1-1/8",1-1/4"	15

OZ COLLET CHUCK SET- METRIC SIZE (mm)

MODEL	COLLET SET SIZE	PCS
OZ25-7P(M)	6,8,10,12,16,20,25	7
OZ25-15P(M)	3,4,5,6,7,8,9,10,11,12,13,16,18,20,25	15
OZ32-8P(M)	6,8,10,12,16,20,25,32	8
OZ32-15P(M)	6,8,10,12,13,14,15,16,18,20,22,25,26,30,32	15

ER 彈性筒夾 ER SPRING COLLET

TYPE	A	B	L	D	STANDARD PRECISION
ER-8	8.5	13.5			
ER-11	11.5	18	6	1.0-1.4	0.015
ER-16	17	27	10	1.5-2.9	0.015
ER-20	21	31	16	3.0-5.9	0.015
ER-25	26	35	25	6.0-9.9	0.02
ER-32	33	40	40	10.0-17.9	0.02
ER-40	41	46	50	18.0-26.9	0.02
ER-50	52	60	60	27.0-34.9	0.02



ER-8		ER-11		ER-16		ER-20	
MODEL	RANGE	MODEL	RANGE	MODEL	RANGE	MODEL	RANGE
ER8-1	0.5-1.0	ER11-1	0.5-1.0	ER16-1	0.5-1	ER20-2	1-2
ER8-1.5	1.0-1.5	ER-11-1.5	1.0-1.5	ER-16-2	1-2	ER20-3	2-3
ER8-2	1.5-2.0	ER11-2.0	1.5-2.0	ER-16-3	2-3	ER20-4	3-4
ER-8-2.5	2.0-2.5	ER11-2.5	2.0-2.5	ER-16-4	3-4	ER20-5	4-5
ER8-3	2.5-3.0	ER11-3.0	2.5-3.0	ER-16-5	4-5	ER20-6	5-6
ER8-3.5	3.0-3.5	ER11-3.5	3.0-3.5	ER-16-6	5-6	ER20-7	6-7
ER8-4	3.5-4.0	ER11-4.0	3.5-4.0	ER-16-7	6-7	ER20-8	7-8
ER8-4.5	4.0-4.5	ER11-4.5	4.0-4.5	ER-16-8	7-8	ER20-9	8-9
ER8-5	4.5-5.0	ER11-5.0	4.5-5.0	ER-16-9	8-9	ER20-10	9-10
		ER11-5.5	5.0-5.5	ER-16-10	9-10	ER20-11	10-11
		ER11-6.0	5.5-6.0	ER-16-1.5	1.5	ER20-12	11-12
		ER11-6.5	6.0-6.5	ER-16-2.5	2.5	ER20-13	12-13
		ER11-7.0	6.5-7.0	ER-16-3.5	3.5	ER20-1	1
				ER-16-4.5	4.5	ER20-2.5	2.5
				ER-16-5.5	5.5	ER20-3.5	3.5
				ER-16-6.5	6.5	ER20-4.5	4.5
				ER-16-7.5	7.5	ER20-5.5	5.5
				ER-16-8.5	8.5	ER20-6.5	6.5
				ER-16-9.5	9.5	ER20-7.5	7.5
						ER20-8.5	8.5
						ER20-9.5	9.5
						ER20-10.5	10.5
						ER20-11.5	11.5
						ER20-12.5	12.5
						ER20-13.5	13.5

ER-25		ER-32		ER-40		ER-50	
MODEL	RANGE	MODEL	RANGE	MODEL	RANGE	MODEL	RANGE
ER25-2	1-2	ER32-3	2-3	ER40-4	3-4	ER50-12	10-12
ER25-3	2-3	ER32-4	3-4	ER40-5	4-5	ER50-14	12-14
ER25-4	3-4	ER32-5	4-5	ER40-6	5-6	ER50-16	14-16
ER25-5	4-5	ER32-6	5-6	ER40-7	6-7	ER50-18	16-18
ER25-6	5-6	ER32-7	6-7	ER40-8	7-8	ER50-20	18-20
ER25-7	6-7	ER32-8	7-8	ER40-9	8-9	ER50-22	20-22
ER25-8	7-8	ER32-9	8-9	ER40-10	9-10	ER50-24	22-24
ER25-9	8-9	ER32-10	9-10	ER40-11	10-11	ER50-26	24-26
ER25-10	9-10	ER32-11	10-11	ER40-12	11-12	ER50-28	26-28
ER25-11	10-11	ER32-12	11-12	ER40-13	12-13	ER50-30	28-30
ER25-12	11-12	ER32-13	12-13	ER40-14	13-14	ER50-32	30-32
ER25-13	12-13	ER32-14	13-14	ER40-15	14-15	ER50-34	32-34
ER25-14	13-14	ER32-15	14-15	ER40-16	15-16		
ER25-15	14-15	ER32-16	15-16	ER40-17	16-17		
ER25-16	15-16	ER32-17	16-17	ER40-18	17-18		
		ER32-18	17-18	ER40-19	18-19		
		ER32-19	18-19	ER40-20	19-20		
		ER32-20	19-20	ER40-21	20-21		
				ER40-22	21-22		
				ER40-23	22-23		
				ER40-24	23-24		
				ER40-25	24-25		
				ER40-26	25-26		

ER 彈性筒夾組
ER COLLET SETS

ER11

MODEL	COLLET SET SIZE	SET PCS
ER11-7P	1,2,3,4,5,6,7	7
ER11-13P	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	13

ER16

MODEL	COLLET SET SIZE	SET PCS
ER16-8P	3,4,5,6,7,8,9,10	8
ER16-10P	1,2,3,4,5,6,7,8,9,10	10

ER20

MODEL	COLLET SET SIZE	SET PCS
ER20-10P	4,5,6,7,8,9,10,11,12,13	10
ER20-12P	2,3,4,5,6,7,8,9,10,11,12,13	12

ER25

MODEL	COLLET SET SIZE	SET PCS
ER25-7P	4,6,8,10,12,14,16	7
ER25-15P	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	15

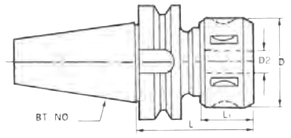
ER32

MODEL	COLLET SET SIZE	SET PCS
ER32-6P	6,8,10,12,16,20	6
ER32-11P	4,5,6,8,10,12,13,15,16,18,20	11
ER32-18P	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	18

ER40

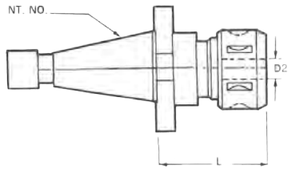
MODEL	COLLET SET SIZE	SET PCS
ER40-7P	6,8,10,12,16,20,25	7
ER10-15P	4,5,6,8,10,12,13,15,16,18,20,21,22,25,26	15
ER40-23P	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	23

BT-OZ 重切削筒夾刀桿 BT-OZ COLLET CHUCK



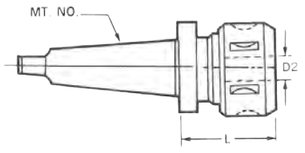
MODEL	TAPER	COLLET	D2	L	D	L1
BT40-OZ25-80	BT40	OZ25	3-25	80	60	30
BT40-OZ25-120			3-25	120	60	30
BT40-OZ32-80		OZ32	6-32	80	72	33
BT40-OZ32-150			6-32	150	72	33
BT50-OZ25-90	BT50	OZ25	3-25	90	60	30
BT50-OZ25-130			3-25	130	60	30
BT50-OZ32-105		OZ32	6-32	105	72	33
BT50-OZ32-150			6-32	150	72	33

NT-OZ 重切削筒夾刀桿 NT-OZ COLLET CHUCK



MODEL	TAPER	COLLET	D2	L
NT30-OZ25-70	NT30	OZ25	3-25	70
NT30-OZ32-100		OZ32	6-32	100
NT40-OZ25-70	NT40	OZ25	3-25	70
NT40-OZ32-70		OZ32	6-32	70
NT50-OZ25-80	NT50	OZ25	3-25	80
NT50-OZ32-80		OZ32	6-32	80

MT-OZ 重切削筒夾刀桿 MT-OZ COLLET CHUCK (MT5 MORSE TAPER SHANK)

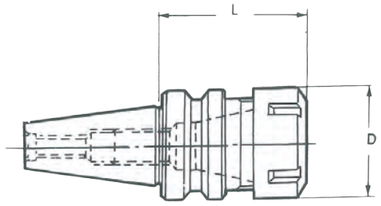


MODEL	TAPER	COLLET	D2	L
MT5-OZ25-75	MT5	OZ25	3-25	75
MT5-OZ32-75		OZ32	6-32	75

R8-OZ 重切削筒夾刀桿 R8-OZ COLLET CHUCK (R8 TAPER SHANK)

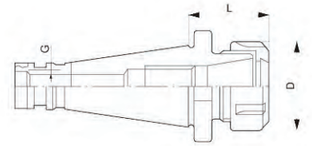
MODEL	TAPER	COLLET	D2
R8-OZ25	R8	OZ25	3-25
R8-OZ32		OZ32	6-32

BT-ER 彈性筒夾刀桿
BT-ER SPRING COLLET ARBOR



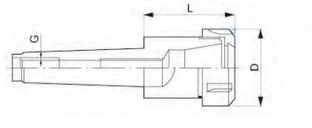
MODEL	TAPER	COLLET	L	D	Clamping Range
BT30-ER16-60	BT-30	ER16	60	28	0.5-10.0
BT30-ER16-100			100	28	0.5-10.0
BT30-ER20-60		ER20	60	34	1.0-13.0
BT30-ER20-100			100	34	1.0-13.0
BT30-ER25-60		ER25	60	42	1.0-16.0
BT30-ER25-100			100	42	1.0-16.0
BT30-ER32-60		ER32	60	50	2.0-20.0
BT30-ER32-100			100	50	2.0-20.0
BT40-ER16-60	BT-40	ER16	60	28	0.5-10.0
BT40-ER16-100			100	28	0.5-10.0
BT40-ER20-60		ER20	60	34	1.0-13.0
BT40-ER20-100			100	34	1.0-13.0
BT40-ER25-60		ER25	60	42	1.0-16.0
BT40-ER25-100			100	42	1.0-16.0
BT40-ER32-60		ER32	60	50	2.0-20.0
BT40-ER32-100			100	50	2.0-20.0
BT40-ER40-80		ER40	80	63	3.0-26.0
BT40-ER40-100			100	63	3.0-26.0
BT50-ER16-100	BT-50	ER16	100	28	0.5-10.0
BT50-ER16-150			150	28	0.5-10.0
BT50-ER20-100		ER20	100	34	1.0-13.0
BT50-ER20-150			150	34	1.0-13.0
BT50-ER25-100		ER25	100	42	1.0-16.0
BT50-ER25-150			150	42	1.0-16.0
BT50-ER32-100		ER32	100	50	2.0-20.0
BT50-ER32-150			150	50	2.0-20.0
BT50-ER40-100		ER40	100	63	3.0-26.0
BT50-ER40-150			150	63	3.0-26.0

NT-ER 彈性筒夾刀桿
NT-ER SPRING COLLET ARBOR



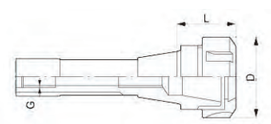
MODEL	TAPER	COLLET	L	D	G
NT30-ER32	NT-30	ER32	55	50	1/2"-12W, M12 x 1.75P (USA 1/2"-UNC13)
NT30-ER40		ER40	70	63	
NT40-ER25	NT-40	ER25	50	42	5/8"-11W or M16 x 2.0P
NT40-ER32		ER32	50	60	
NT40-ER40		ER40	60	63	
NT50-ER32	NT-50	ER32	60	60	1"- 8W or M24 x 3.0P
NT50-ER40		ER40	65	63	

MT-ER 莫式錐度刀桿
MT-ER SPRING COLLET ARBOR



MODEL	TAPER	COLLET	L	D	G
MT2-ER16	MT2	ER16	40	28	3/8"- 16W or M10 x 1.5P
MT2-ER20		ER20	43	34	
MT2-ER25		ER25	47	42	
MT3-ER16	MT3	ER16	40	28	3/8"- 16W or 1/2" - 12W M10 x 1.5P M12 x 1.75P USA 1/2" - UNC13
MT3-ER20		ER20	43	34	
MT3-ER25		ER25	47	42	
MT3-ER32		ER32	70	50	
MT3-ER40		ER40	80	63	
MT4-ER32	MT4	ER32	60	50	5/8" -11W or M16 x 2.0P
MT4-ER40		ER40	82	63	

R8-ER 彈性筒夾刀桿
R8-ER SPRING COLLET ARBOR

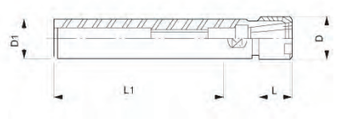


MODEL	COLLET	L	D	G
R8-ER32	ER32	40	50	7/16" x 20 UNF

ER-直柄彈性筒夾刀桿
ER- COLLET HOLDERS WITH STRAIGHT SHANK

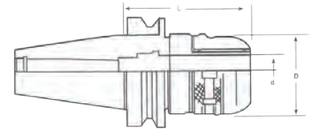
MODEL	TAPER	COLLET	L1	L	D
C20-ER16-50	C20	ER16	50	30	28
C20-ER16-100			100	30	28
C20-ER16-150			150	30	28
C20-ER20-50		ER20	50	36	34
C20-ER20-100			100	36	34
C20-ER25-50		ER25	50	46	42
C20-ER25-100			100	46	42
C20-ER25-150			150	46	42
C25-ER16-100	C25	ER16	100	30	28
C25-ER16-150			150	30	28
C25-ER20-150		ER20	150	36	34
C25-ER25-100		ER25	100	46	42
C25-ER25-150			150	46	42

ER-直柄彈性筒夾刀桿(M型)
ER- COLLET HOLDERS WITH STRAIGHT SHANK (M-TYPE)



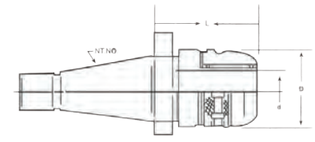
MODEL	TAPER	COLLET	L1	L	D1	D
C16-ER11-50(M)	C16	ER11	50	12	16	16
C16-ER11-100(M)			100	12	16	16
C20-ER16-50(M)	C20	ER16	50	18	20	22
C20-ER16-100(M)			100	18	20	22
C20-ER16-150(M)			150	18	20	22
C20-ER20-50(M)		ER20	50	19	20	28
C20-ER20-100(M)			100	19	20	28
C20-ER20-150(M)			150	19	20	28
C25-ER20-50(M)	C25	ER20	50	19	25	28
C25-ER20-100(M)			100	19	25	28
C25-ER20-150(M)			150	19	25	28

BT-直筒夾強力銑刀桿
BT-SC MILLING CHUCK



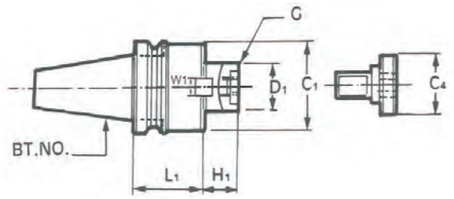
MODEL	Collet Type	L	D	d	Capacity Range
BT30-SC25-85	SC25	85	58	25	6~25
BT40-SC25-90	SC25	90	58	25	6~25
BT40-SC25-130	SC25	130	58	25	6~25
BT40-SC32-95	SC32	95	68	32	6~32
BT40-SC32-130	SC32	130	68	32	6~32
BT50-SC25-100	SC25	100	58	25	6~25
BT50-SC25-150	SC25	150	58	25	6~25
BT50-SC32-105	SC32	105	76	32	6~32
BT50-SC32-150	SC32	150	76	32	6~32
BT50-SC32-200	SC32	200	76	32	6~32
BT50-SC32-250	SC32	250	76	32	6~32
BT50-SC42-110	SC42	110	84	42	6~42
BT50-SC42-160	SC42	160	84	42	6~42

NT-SC 直筒夾強力銑刀桿
NT-SC MILLING CHUCK



MODEL	Collet Type	L	D	d	Capacity Range	Draw Bolt
NT30-SC25-80	SC25	80	58	25	6~25	1/2"-12 M12×1.75P
NT30-SC32-90	SC32	90	68	32	6~32	
NT40-SC25-80	SC25	80	58	25	6~25	
NT40-SC25-130		130	58	25	6~25	5/8"-11 M16×2.0P
NT40-SC32-85	SC32	85	68	32	6~32	
NT40-SC32-130		130	68	32	6~32	
NT50-SC25-85	SC25	85	58	25	6~25	
NT50-SC25-150		150	58	25	6~25	
NT50-SC32-90	SC32	90	76	32	6~32	1"-8 M24×3.0P
NT50-SC32-150		150	76	32	6~32	
NT50-SC42-95	SC42	95	84	42	6~42	
NT50-SC42-150		150	84	42	6~42	

BT-FMA/FMB 平面銑刀桿
BT- FACE MILL ARBOR (FMA / FMB)



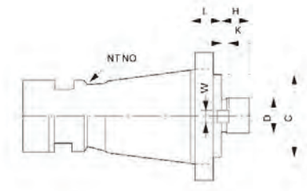
BT-FMA平面銑刀桿 - INCH SIZE

MODEL	D1	L1	H1	C1	W1	G
BT30-FMA25.4-45	25.4	45	20	45	9.5	M12
BT30-FMA25.4-60	25.4	60	20	45	9.5	M12
BT40-FMA25.4-45	25.4	45	20	60	9.5	M12
BT40-FMA25.4-60	25.4	60	20	60	9.5	M12
BT40-FMA31.75-45	31.75	45	22	70	12.7	M12
BT40-FMA31.75-60	31.75	60	22	70	12.7	M12
BT40-FMA31.75-90	31.75	90	22	70	12.7	M12
BT40-FMA38.1-60	38.1	60	23	85	15.9	M16
BT40-FMA38.1-90	38.1	90	23	85	15.9	M16
BT50-FMA25.4-45	25.4	45	20	60	9.5	M12
BT50-FMA25.4-75	25.4	75	20	60	9.5	M12
BT50-FMA25.4-150	25.4	150	20	60	9.5	M12
BT50-FMA31.75-45	31.75	45	22	70	12.7	M12
BT50-FMA31.75-75	31.75	75	22	70	12.7	M12
BT50-FMA31.75-105	31.75	105	22	70	12.7	M12
BT50-FMA38.1-45	38.1	45	23	85	15.9	M16
BT50-FMA38.1-75	38.1	75	23	85	15.9	M16
BT50-FMA50.8-45	50.8	45	24	95	19.05	M16
BT50-FMA50.8-75	50.8	75	24	95	19.05	M16

BT-FMB平面銑刀桿 - METRIC SIZE (mm)

MODEL	D1	L1	H1	C1	W1	G
BT30-FMB22-45	22	45	18	50	10	M10
BT30-FMB27-45	27	45	20	60	12	M12
BT40-FMB22-45	22	45	18	48	10	M10
BT40-FMB22-90	22	90	18	48	10	M10
BT40-FMB27-60	27	60	20	60	12	M12
BT40-FMB27-90	27	90	20	60	12	M12
BT40-FMB32-45	32	45	22	78	14	M16
BT40-FMB40-60	40	60	25	80	16	M16
BT50-FMB22-45	22	45	18	48	10	M10
BT50-FMB22-75	22	75	18	48	10	M10
BT50-FMB27-45	27	45	20	60	12	M12
BT50-FMB27-75	27	75	20	60	12	M12
BT50-FMB27-90	27	90	20	60	12	M12
BT50-FMB32-75	32	75	22	78	14	M16
BT50-FMB32-105	32	105	22	78	16	M16
BT50-FMB32-150	32	150	22	78	16	M16
BT50-FMB40-45	40	45	25	89	16	M16
BT50-FMB40-75	40	75	25	89	16	M16

NT-FMA/FMB 平面銑刀桿
NT-FACE MILL ARBOR (FMA/FMB)



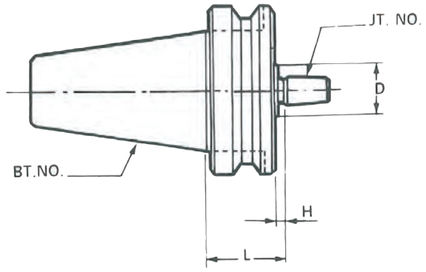
NT-FMA 平面銑刀桿- INCH SIZE

MODEL	SHAFT SIZE			MOUNTING SIZE		
	D	H	W	K	C	L
NT30-FMA25.4	25.4	20	9.57	5	65	20
NT30-FMA31.75	31.75	23	12.75	7	73	20
NT30-FMA38.1	38.1	22	15.9	9	82	20
NT40-FMA25.4	25.4	20	9.57	5	65	20
NT40-FMA31.75	31.75	22	12.75	7	73	20
NT40-FMA38.1	38.1	23	15.9	9	82	20
NT50-FMA25.4	25.4	20	9.57	5	65	20
NT50-FMA31.75	31.75	22	12.75	7	73	20
NT50-FMA38.1	38.1	23	15.9	9	82	20
NT50-FMA50.8	50.8	24	19.05	10	95	20

NT-FMB 平面銑刀桿- METRIC SIZE (mm)

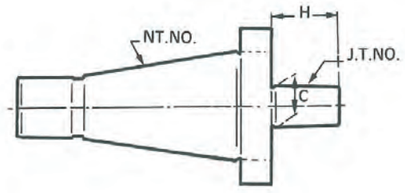
MODEL	SHAFT SIZE			MOUNTING SIZE		
	D	H	W	K	C	L
NT30-FMB22	22	18	9.57	5	40	20
NT30-FMB27	27	20	12.75	7	53	20
NT30-FMB32	32	23	15.9	7	63	20
NT40-FMB22	22	18	9.57	5	40	20
NT40-FMB27	27	20	12.75	7	53	20
NT40-FMB32	32	23	15.9	7	63	20
NT40-FMB40	40	26	19.05	8	85	20
NT50-FMB22	22	18	9.57	5	40	20
NT50-FMB27	27	20	12.75	7	53	20
NT50-FMB32	32	23	15.9	7	63	20
NT50-FMB40	40	26	19.05	8	85	20

BT-JT 鑽夾頭刀桿 BT- JT JACOBS TAPER DRILL CHUCK



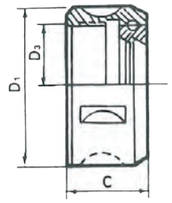
MODEL	JT.NO.	L	D	H
BT30-JTA1-45	JTA1	45	30	3
BT30-JTA1-90	JTA1	90	30	3
BT30-JTA2-45	JTA2	45	30	4
BT30-JTA2-90	JTA2	90	30	4
BT30-JTA6-45	JTA6	45	30	4
BT30-JTA6-90	JTA6	90	30	4
BT40-JTA1-45	JTA1	45	30	3
BT40-JTA1-90	JTA1	90	30	3
BT40-JTA2-45	JTA2	45	30	4
BT40-JTA2-90	JTA2	90	30	4
BT40-JTA6-45	JTA6	45	30	4
BT40-JTA6-90	JTA6	90	30	4
BT50-JTA1-45	JTA1	45	30	3
BT50-JTA1-105	JTA1	105	30	3
BT50-JTA2-45	JTA2	45	30	4
BT50-JTA2-105	JTA2	105	30	4
BT50-JTA3-45	JTA3	45	--	7
BT50-JTA3-105	JTA3	105	35	5
BT50-JTA6-45	JTA6	45	30	4
BT50-JTA6-105	JTA6	105	30	4

NT- JT 鑽夾頭刀桿 NT- JT JACOBS TAPER DRILL CHUCK



MODEL	JT.NO.	C	H	DRAW BOLT
NT30-JTA1	JTA1	9.754	18	1/2-12" M12×1.75P
NT30-JTA2	JTA2	13.94	20	
NT30-JTA6	JTA6	17.17	26	
NT40-JTA1	JTA1	9.754	18	5/8-11" M16×2.0P
NT40-JTA2	JTA2	13.94	20	
NT40-JTA6	JTA6	17.17	26	
NT50-JTA1	JTA1	9.754	18	1"-8 M24×3.0P
NT50-JTA2	JTA2	13.94	20	
NT50-JTA6	JTA6	17.17	26	

OZ 重切削螺帽 OZ-TYPE NUT



MODEL	C	D1	D3
OZ25N	30	60	M48×2
OZ32N	33	78	M60×2.5

ER 螺帽 ER CLAMPING NUT

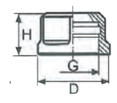


Fig1

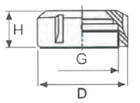


Fig2

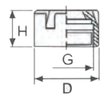


Fig3

MODEL	D	H	G	Fig
ER11N	19	13	M14×P0.75	1
ER16N	28	17.5	M22×P1.5	1
ER20N	34	19	M25×P1.5	1
ER25N	42	20	M32×P1.5	2
ER32N	50	22.5	M40×P1.5	2
ER40N	63	29	M50×P1.5	2
ER11N(M)	16	12	M13×P0.75	3
ER16N(M)	22	18	M19×P1.0	3
ER20N(M)	28	19	M24×P1.0	3

OZ 板手/ C型板手 OZ WRENCH/ C-TYPE WRENCH

OZ板手 OZ WRENCH

MODEL	D1
OZ25N	60
OZ32N	78

C型板手 C-TYPE WRENCH

MODEL	D1
SC16W	46
SC20W	53
SC25W	55
SC32W	68
SC42W	76

ER 板手 ER WRENCH

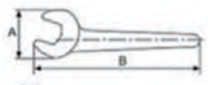


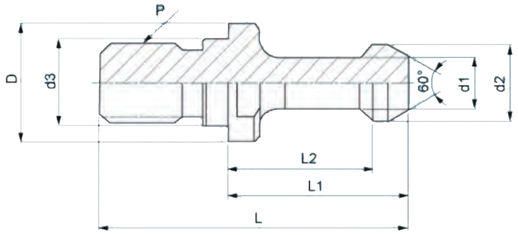
Fig 1

Fig 2

Fig 3

MODEL	A	B	C	Fig
ER16W	45	137	25	1
ER20W	54	162	30	1
ER25W	65	206	37	2
ER32W	75	253	46.5	2
ER40W	90	289	58	2
ER11W(M)	17	95	8.5	3
ER16W(M)	22.5	117	12.5	3
ER20W(M)	28.5	127	15.5	3

拉桿螺栓 PULL STUDS



BT拉桿螺栓-標準型 STANDARD TYPE

MODEL	TAPER	d1	d2	L	L1	L2	θ	P
PS-BT30-45° PS-BT30-60°	BT30	7	11	43	23	18	45° 60°	M12
PS-BT40-45°	BT40	10	15	60	35	28	45° 60°	M16
PS-BT40-60°								
PS-BT40-90°							90°	
PS-BT50-45°	BT50	17	23	85	45	35	45°	M24
PS-BT50-60°							60°	
PS-BT50-90°							90°	

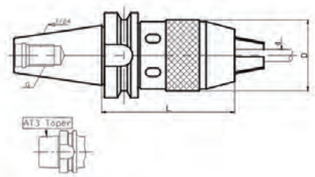
BT拉桿螺栓-中心出水 COOLANT TYPE

MODEL	TAPER	d1	d2	Ød	L	L1	L2	θ	P
PS-BT40-45° C	BT40	10	15	3	60	35	28	45°	M16
PS-BT40-60° C								60°	
PS-BT40-90° C								90°	
PS-BT50-45° C	BT50	17	23	8	85	45	35	45°	M24
PS-BT50-60° C								60°	
PS-BT50-90° C								90°	

BT拉桿螺栓-MAZAK MAZAK TYPE

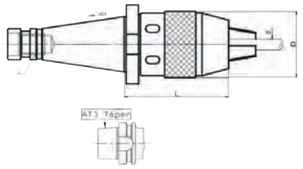
MODEL	TAPER	d1	d2	Ød	L	L1	L2	θ	P
PS-BT40-45° M	BT40	12.45	18.8	7	44.1	19.11	14.03	45°	M16
PS-BT50-45° M	BT50	20.83	28.96	10	65.2	25.2	17.58	45°	M24

BT- 連體鑽夾頭刀柄 BT- KPU DRILL CHUCKS



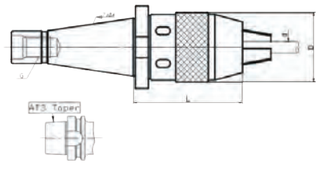
MODEL	L	ØD	Ød	G (mm)
BT30-KPU08	75	36	0.5-8	M12
BT30-KPU13	91	50	0.5-13	
BT40-KPU08	80	36	0.5-8	M16
BT40-KPU13	95	50	0.5-13	
BT40-KPU16	113	57	3-16	
BT50-KPU13	105	50	0.5-13	M24
BT50-KPU16	110	57	3-16	

DIN2080- 連體鑽夾頭刀柄 DIN2080- KPU DRILL CHUCKS



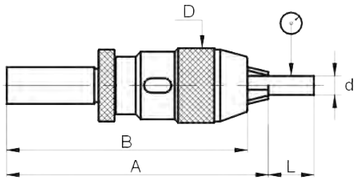
MODEL	L	ØD	Ød	G (mm)
DIN2080-30-KPU08	70	36	0.5-8	M12
DIN2080-30-KPU13	85.5	50	0.5-13	
DIN2080-40-KPU08	70	36	0.5-8	M16
DIN2080-40-KPU13	85	50	0.5-13	
DIN2080-40-KPU16	105	57	3-16	
DIN2080-50-KPU13	95	50	0.5-13	M24
DIN2080-50-KPU16	100	57	3-16	

NT- 連體鑽夾頭刀柄 NT- KPU DRILL CHUCKS



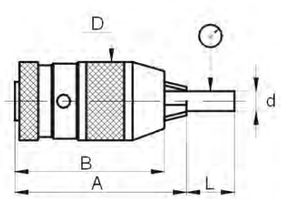
MODEL	L	ØD	Ød	G (inch)
NT30-KPU08	70	36	0.5-8	1/2"- 12UNC
NT30-KPU13	85.5	50	0.5-13	
NT40-KPU08	70	36	0.5-8	5/8"- 11UNC
NT40-KPU13	85	50	0.5-13	
NT40-KPU16	105	57	3-16	
NT50-KPU13	95	50	0.5-13	1"- 8UNC
NT50-KPU16	100	57	3-16	

一體式鑽夾頭 INTEGRATED KEYLESS DRILL CHUCKS



MODEL	夾持力 Clamping Capacity	鑽孔類型 Female Taper	ØD	A	B	重量 (KG) Weight
INT-8	0.5-8 1/64"-5/16"	MT2 JC20	35	157	149	0.52
				141	133	0.5
INT-13	0.5-13 1/64"-1/2"	R8	50.5	207	196	1.5
		MT2		184	172	1.1
		MT3		201	190	1.25
		MT4		227	216	1.58
		JC20		164	153	1.1
		JC25		174	163	1.25
		JC32		185	173	1.45
INT-16	3-16 1/8"-5/8"	R8	56	211	198	1.85
		MT3		207	194	1.52
		MT4		232	219	1.85
		JC20		165	152	1.45
		JC25		175	162	1.5
		JC32		197	184	1.72

XHSP 型鑽夾頭 XHSP TYPE KEYLESS DRILL CHUCKS



MODEL	夾持力 Clamping Capacity	鑽孔類型 Female Taper	ØD	A	B	重量(KG) Weight
6XHSP	0.5-6.5 1/64"-1/4"	B12	34	69	61	0.32
		J1				
		B10				
8XHSP	0.5-8 1/64"-5/16"	J2S	34	69	61	0.32
		B10				
		J1				
		B12				
10XHSP	0.5-10 1/64"-3/8"	J33	43	92	81	0.7
		J2				
		J2S				
		B12				
		B16				
13XHSP	0.5-13	J6	51.5	103	92	1.03
		J2				1.035
		J33				1.035
		B16				1.03
16XHSP	3-16 1/8"-5/8"	J6	58	108	95	1.45
		J33				
		B16				
		B18				
		J3				

JBH 搪孔器組(標準型) JBH BORING HEAD SETS (STANDARD TYPE)

MODEL	TYPE
JBH-MT3	MT3
JBH-MT4	MT4
JBH-MT5	MT5
JBH-R8(I)	R8
JBH-NT30(M)/(I)	NT30
JBH-NT40(M)/(I)	NT40
JBH-NT50(M)/(I)	NT50
JBH-BT40	BT40
JBH-BT50	BT50
JBH-SK40	SK40
JBH-Ø25	Ø25

整組配件：
延長搪刀桿4支
8mm鎢鋼四角刀1支
1008捨棄式搪刀1支
3,4,6mm L型六角板手各1支

◊ 搪孔範圍Boring Range：Ø8~280mmw
◊ 搪孔深度Boring Depth：120mm
◊ 微調刻度環一格為行程1 Scale :0.01mm

JMBH2084 微調搪孔器組JMBH2084 MICRO BORING HEAD SETS

MODEL	TYPE
JMBH2084-R8(I)	R8
JMBH2084-NT30(M)/(I)	NT30
JMBH2084-NT40(M)/(I)	NT40
JMBH2084-NT50(M)/(I)	NT50
JMBH2084-BT40	BT40
JMBH2084-BT50	BT50
JMBH2084-MT3	MT3
JMBH2084-MT4	MT4
JMBH2084-MT5	MT5
JMBH2084-Ø25	Ø25

整組配件：
Ø20mm捨棄式搪刀8支
刀片固定螺絲(8×3)24支
內星型T型板手6支
6mm L型六角板手1支

◊ 搪孔範圍Boring Range：Ø8~280mmw
◊ 搪孔深度Boring Depth：115mm
◊ 微調刻度環一格為行程1 Scale :0.005mm, 0.01mm

JMBH(HS) 微調搪孔器組(高速機專用) JMBH(HS) MICRO BORING HEAD SETS (HIGH-SPEED TYPE)

MODEL	TYPE
JMBH(HS)-NT40	NT40
JMBH(HS)-NT50	NT50
JMBH(HS)-BT40	BT40
JMBH(HS)-BT50	BT50

整組配件：
Ø16mm捨棄式搪刀8支
刀片固定螺絲(8×3)24支
星型板板手4支
4mm T型六角板手1支

◊ 搪孔範圍Boring Range：Ø8~46mmw
◊ 搪孔深度Boring Depth：90mm
◊ 微調刻度環一格為行程1 Scale :0.005mm

磁性座 MAGNETIC BASE

MB-38R MB-35 MB-60 MB-85 MB-120 MB-60A MB-60B

型號 MODEL	磁力 Holding Power	磁性座規格Base Dimension (mm) 長L	寬W	高H	淨重 N.W. (kg)	螺紋 Bolt
MB-38R	20kg	Ø38x27			0.2	M8x1.25
MB-35	20kg	35	30	35	0.2	M5x0.8
MB-60	80kg	60	50	55	1.0	M8x1.25
MB-75	100kg	75	50	55	1.4	M8x1.25
MB-85	120kg	85	50	55	2.0	M8x1.25
MB-120	160kg	120	50	55	1.1	M10x1.5
MB-60A	80kg	60	50	55	1.1	M8x1.25
MB-60B	80kg	60	50	55	1.1	M8x1.25

油壓式磁性錶座 HYDRAULIC ARM MAGNETIC BASE

★萬向曲臂設計、方向可任意調整。
★Hydraulic Arm Magnetic Base for indicators, it can be set at any point in 360°, very quick and convenient for operation.

UMB-310(H) UMB-425(H) (加長型) UMB-310(HW) (附壓力錶型)

型號 MODEL	磁力 Holding Power	臂長 Arm Length	底座規格Base Dimension (mm) 長L	寬W	高H	重量 N.W. (kg)
UMB-310(H)	100kg	310mm	75	50	55	1.9
UMB-425(H)	100kg	425mm	75	50	55	2.0
UMB-310(HW)	100kg	310mm	75	50	55	2.0

機械式磁性錶座 MECHANICAL ARM MAGNETIC BASE

★萬向曲臂設計、方向可任意調整。
★Mechanical Arm Magnetic Base for indicators, it can be set at any point in 360°, very quick and convenient for operation.

UMB-185(MR) UMB-185(M) UMB-285(M) UMB-340(M) UMB-340(ML) UMB-165(M) UMB-165(MA) (附微調)

型號 MODEL	磁力 Holding Power	臂長 Arm Length	底座規格 Base Dimension (mm) 長L	寬W	高H	重量 N.W. (kg)
UMB-185(MR)	20	185	Ø38x32	0.5	55	1.9
UMB-185(M)	20	185	35	30	35	0.4
UMB-285(M)	80	285	60	50	55	1.4
UMB-340(M)	80	340	60	50	55	1.5
UMB-340(ML)	120	340	85	50	55	2.2
UMB-165(M)	80	165	60	50	55	1.6
UMB-165(MA)	80	165	60	50	55	1.7

刀具車 TOOLING WAGOW

MODEL	Shank Size	Tool Capacity
TT-BT30	BT-30	32pcs
TT-BT40	BT-40	28pcs
TT-BT50	BT-50	20pcs

刀具架 TOOLING RACK

TR-A

MODEL	Shank Size	Tool Capacity
TR-BT30A	BT-30	64pcs
TR-BT40A	BT-40	56pcs
TR-BT50A	BT-50	40pcs

TR-B

MODEL	Shank Size	Tool Capacity
TR-BT30B	BT-30	128pcs
TR-BT40B	BT-40	112pcs
TR-BT50B	BT-50	80pcs

切削冷卻噴霧器 MULTI-FUNCTION MIST COOLANT SYSTEM

MODEL：MC-500

MC-500

切削冷卻噴霧器(附磁性座) MULTI-FUNCTION MIST COOLANT SYSTEM (WITH MAGNETIC BASE)

MODEL：MC-500 MB

MC-500MB

鎖刀座 TOOL HOLDER LOCKING DEVICE

MODEL	SHANK SIZE
LD-BT30	BT-30
LD-BT40	BT-40
LD-BT50	BT-50
LD-DIN40	DIN-40
LD-DIN50	DIN-50
LD-CAT40	CAT-40
LD-CAT50	CAT-50

鎖刀座（經濟型） TOOL HOLDER LOCKING DEVICE (ECONOMICAL TYPE)

MODEL	SHANK SIZE
LD-BT30S	BT-30
LD-BT40S	BT-40
LD-BT50S	BT-50

Z 軸設定器(光電式) Z AXIAL PRESET GAUGE (OPTICAL TYPE)

MODEL	高度 HEIGHT	重量 WEIGHT
ZOP-50	50±0.005	0.64KG

Z軸設定器(附錶型) Z AXIAL PRESET GAUGE(INDICATOR TYPE)

ZIP-50　ZIP-50A　ZIP-50B

MODEL	高度 HIGHT	重量 WEIGHT (KG)
ZIP-50	50±0.005mm	1.08
ZIP-50A	50±0.005mm	1.22
ZIP-50B	50±0.005mm	1.66

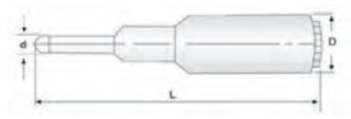
光電式尋邊器 OPTICAL EDGE FINDER

★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

MODEL	柄徑D	長度L	側頭d	重WEIGHT
SOE-20S	20Ø	120	10Ø	0.35KG
SOE-20L	20Ø	158	10Ø	0.4KG
SOE-32L	32Ø	158	10Ø	0.7KG
SOE-20LB	20Ø	158	10Ø	0.4KG
SOE-32LB	32Ø	158	10Ø	0.7KG

SOE-20L、32L：附2枚UM5#, 1.5V鹼性乾電池
SOE-20L、32L：Two alkaline dry battery UM5#, 1.5V are offered.
SOE-20S、20LB、32LB：附1枚UM5#, 12V鹼性乾電池
SOE-20S、20LB、32LB：One alkaline dry battery UM5#, 12V is offered.

SOE-32LB　SOE-32L　SOE-20LB　SOE-20L　SOE-20S



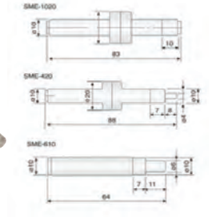
特點：
1.不需迴轉測量
2.精確度0.005m/m

FEATURE：
1.No need of rotary measuring.
2.Precision：0.005m/m.

偏心式尋邊器 MECHANICAL EDGE FINDER

特點：
1.Ø10mm的直柄可安裝於切削夾頭或鑽夾頭上。
2.請以手指輕壓測定子的側邊，使其偏心0.5mm。
3.使其以400-600rpm的速度轉動。
4.使測定子與加工物的端面相接觸，一點一點地碰觸移動，測定子就不再振動，宛如靜止的狀態。接著以更細微的給進來碰觸移動的話，測定子會開始朝一定方向滑動，這個滑動起點就是所求的基準位置。
5.加工物本身的端面位置，就是加上測定子半徑 5 mm的座標位置

FEATURES：
1. 10mm straight shank can be installed directly on milling chuck or drilling chuck.
2. Press slightly on edge of sensor unit with hands to keep eccentricity at 0.5mm。
3. Rotate with speed of 400-600rpm
4. Make sensor unit contact to the end face of workpiece. Then, contact and move gradually, make the sensor unit keeps still.If fine feed is started, then sensor unit will move according to a specific direction. The start going 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
HRC：58°

MODEL	WEIGHT
SME-1020	0.07kgs
SME-420	0.07kgs
SME-610	0.04kgs

Material by Stainless Steel
HRC：60°

MODEL	WEIGHT
SME-420ST	0.07kgs
SME-1020ST	0.07kgs

UG- 500 精密型氣動刻磨機 UG- 500 PRECISION TYPE AIR GRINDER

轉速：60,000 rpm
重量：110g
尺寸：Ø20×160L(mm)

Speed：60,000 rpm
Weight：110g
Dimensions：Ø20×160L(mm)

特點：
1.高扭力、低噪音、精密型刻磨機。
2.適用於精密研磨及修整作業。
3.可更換式夾頭：標準夾頭為Ø3.0mm，亦可選購Ø2.34或Ø3.175mm為夾頭。

FEATURES：
1.High-torque, quiet-running and well balance.
2.Ideal for precision grinding and finishing works.
3.Replaceable collet chuck：Ø3.0mm is standard, the Ø2.34 and Ø3.175mm collet are optional.

UG- 400 經濟型氣動刻磨機 UG- 400 ECONOMIC TYPE AIR GRINDER

轉速：60,000 rpm
重量：130g
尺寸：Ø17×159L(mm)

Speed：60,000 rpm
Weight：130g
Dimensions：Ø17×159L(mm)

特點：
1.經濟型，適用於精密研磨及整修作業。
2.夾頭不可更換：標準品為Ø3.0夾頭，若須Ø2.34或Ø3.175mm夾頭請指明選購。

FEATURES：
1. Reliable quality and competitive price.
2. Fixed type collet chuck：Ø3.00mm is standard, the tool with Ø2.34and Ø3.175mm collet are optional.

UG-300 雙夾頭型氣動刻磨機 UG-300 DUAL-COLLET TYPE AIR GRINDER

轉速：35,000 rpm
重量：170g
尺寸：Ø22×180L(mm)

Speed：35,000 rpm
Weight：170g
Dimensions：Ø22×180L(mm)

特點：
1.重負荷、高扭力，泛用型適於清除毛邊倒角、鎢鋼刀銑模及焊接面磨除等。
2.雙夾頭兩用型：標準為Ø3.0/ Ø6.0mm夾頭，其他Ø3.175/ Ø6.35mm為選購。

FEATURES：
1. High torque, heavy-duty, general-purpose applicable on deburring, chamfering, milling and finishing the welded surfaces...etc.
2. Dual collet chuck：Ø3.0/ Ø6.0mm is standard, the collet of Ø3.175/ Ø6.35mm is optional.

AG- 45° 氣動平面研磨機 AG- 45 ANGLE SURFACE GRINDER

轉速：23,500 rpm
重量：180g
尺寸：Ø17×153L×50H(mm)

Speed：23,500 rpm
Weight：180g
Dimensions：Ø17×153L×50H(mm)

特點：
1.45度彎頭平面研磨機，適用於平面研磨，倒角及焊接面之修整。
2.夾頭：M7焊接，可鎖接碗形輪或砂布片。

FEATURES：
1. 45 degree angle surface grinder.
2. Collet chuck: M7 screw shaft for mounting abrasive cup wheels and abrasive paper disc. Ideal for surface grinding, chamfering, deburring and finishing the welded surfaces...etc.

AG-90° 氣動平面研磨機 AG-90 ANGLE SURFACE GRINDER

轉速：23,500 rpm
重量：170g
尺寸：Ø17×140L×39H(mm)

Speed：23,500 rpm
Weight：170g
Dimensions：Ø17×140L×39H(mm)

特點：
1.90度彎頭平面研磨機，適用於平面研磨，倒角及焊接面之修整。
2.夾頭：M7焊接，可鎖接碗形輪或砂布片。

FEATURES：
1. 90 degree angle surface grinder.
2. Collet chuck: M7 screw shaft for mounting abrasive cup wheels and abrasive paper disc.
3. Ideal for surface grinding, chamfering, deburring and finishing the welded surfaces...etc.