

夾治具系統

Clamping Systems

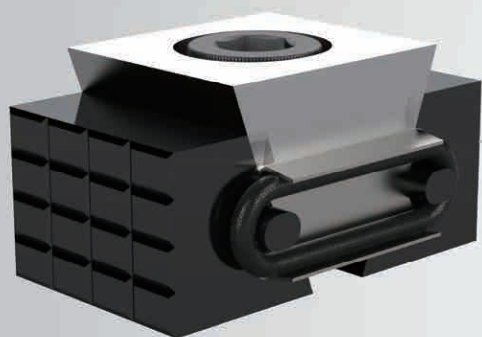
同動求心虎鉗

Self Center



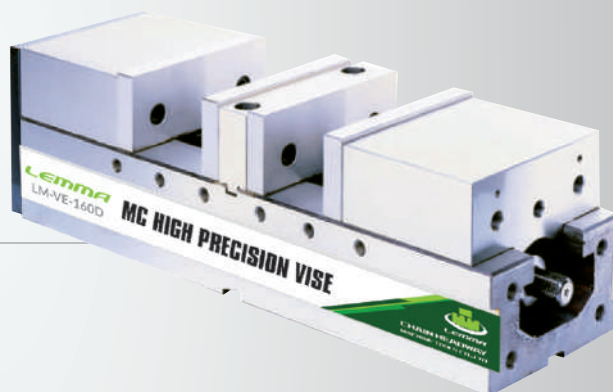
迷你虎鉗

OKV



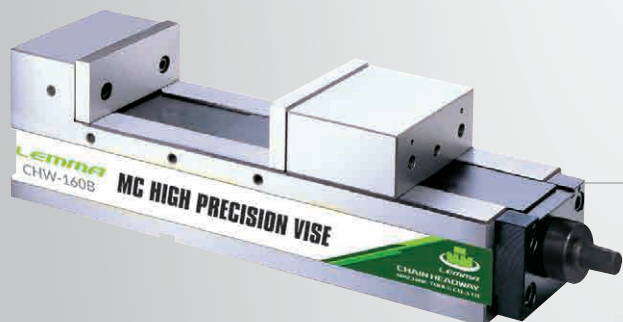
雙夾型虎鉗

Double-Clamping



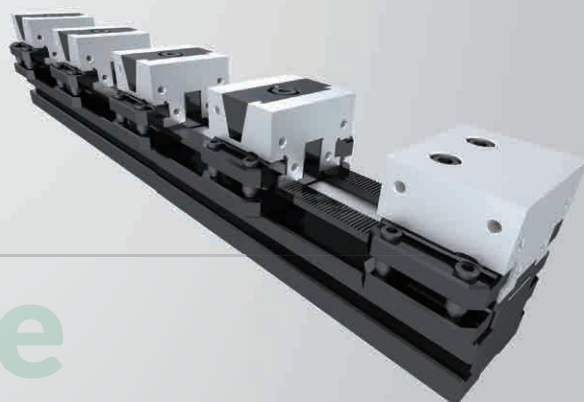
一般型虎鉗

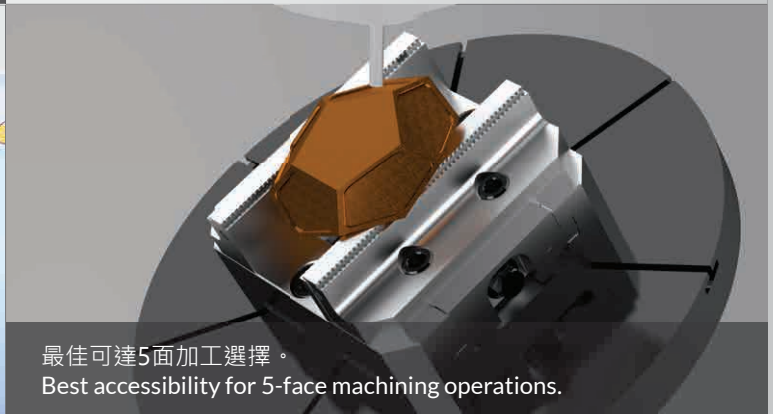
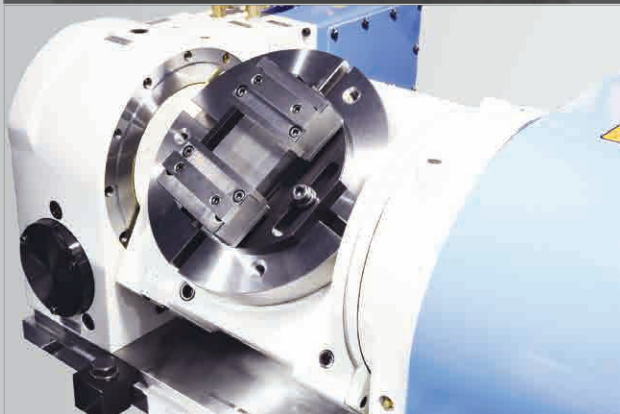
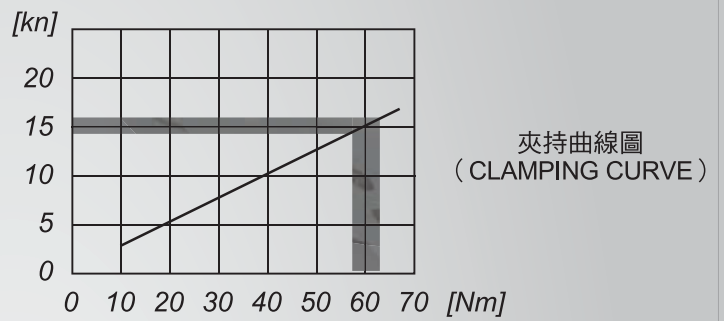
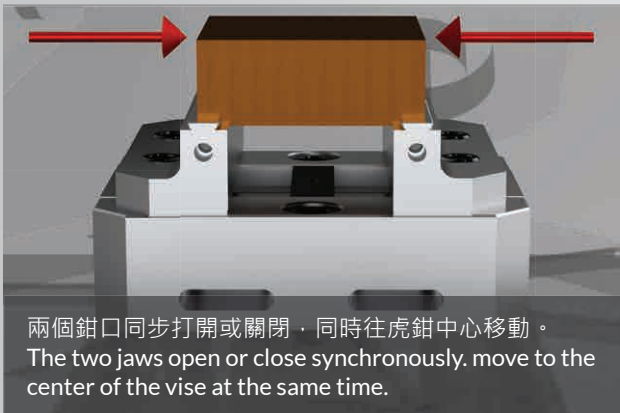
General



彈性並列式虎鉗

Flexible Parallel Vise





特點

Features

同動式求心虎鉗適用於三、四、五軸、CNC分度盤及臥式銑床精密加工

Self Centring Precision Vise is suitable for 3、4、5 axis、CNC Rotary Table and Horizontal machining.

虎鉗中心重覆定位精度可保持 $\pm 0.01\text{mm}$ ，極其扁平的設計，為了最大限度地利用機台空間。

Vise precision of its center repetition position is $\pm 0.01\text{mm}$, extremely flat design, for maximum utilization of the machine room.

虎鉗滑軌經高週波熱處理HRC45°以上，可保持高耐磨性。

Slideway has high frequency heat treatment at HRC45° or more to keep the accuracy and its long use life.

虎鉗鉗口採用全鋼材質，經熱處理硬度達HRC55°以上，可拆換方向使用，變化性與互換性極佳。

Vise hard jaw material is full Steel and heat treatment at HRC55° or more. Owing to its good design to use both sides of jaw since it is exchangeable.

虎鉗特殊的結構設計，夾持工件時所產生的下壓力能有效防止工件上浮情形，鎖固力極佳。

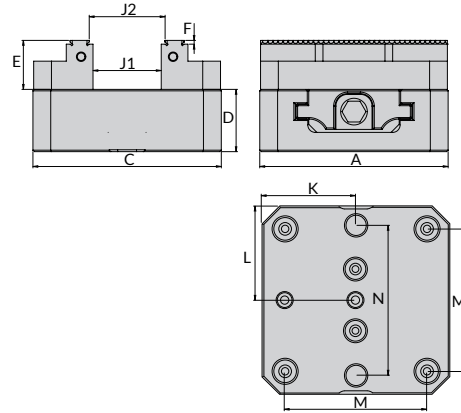
Special design for the Self Centring Precision Vise to prevent work piece from bending during clamping and machining. Thus, it has the best solution in clamping the work piece.



LM-VE-SC 同動求心虎鉗

LM-VE-SC SELF CENTRING VISE

LEMMA



本體材質:合金鋼 Using steel alloy

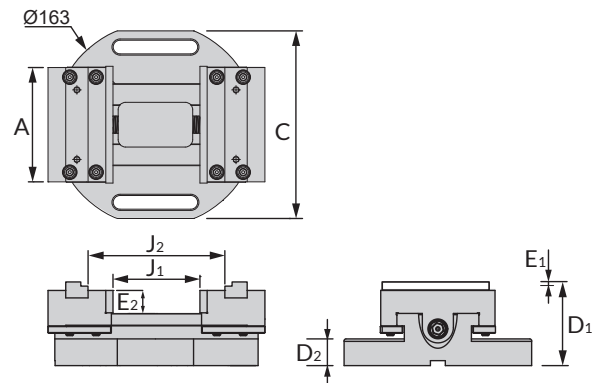
規格 Spec.	A	C	D	E	F	J ₁	J ₂	K	L	M	N	夾持力 Power	重量 (KGS) Weight
LM-VE-127SC	127	127	42	33	3	0-46	0-51	63.5	63.5	96	101	15KN	5.5
LM-VE-153SC	127	153	42	33	3	0-72.5	0-79	76.5	63.5	96	101	15KN	6.7
LM-VE-210SC	127	210	42	33	3	0-122	0-127	101.5	63.5	96	101	18KN	8.7
LM-VE-76102SC	76	102	35	21	2.5	0-45	0-49	127.5	75	96	-	-	-



LM-VE-90SC 同動求心虎鉗

LM-VE-90SC SELF CENTRING VISE

LEMMA

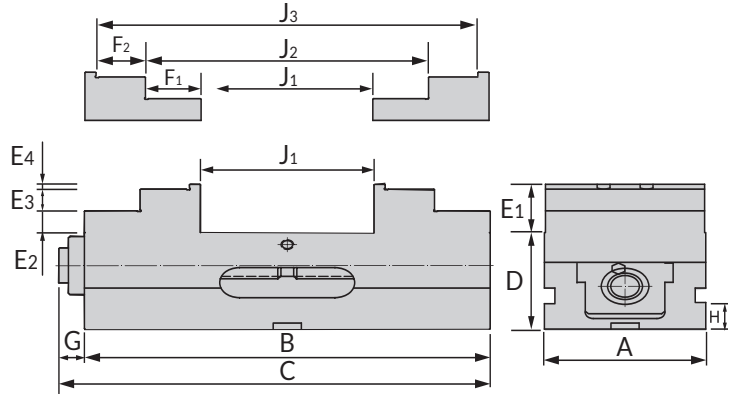


本體材質:合金鋼 Using alloy steel

規格 Spec.	A	C	D ₁	D ₂	E ₁	E ₂	J ₁	J ₂	夾持力 Power	重量 (KGS) Weight
LM-VE-90SC	90	151	60	17	5	18	0-60	40-100	15KN	4.00

LM-VE-SC 同動求心虎鉗

LM-VE-SC SELF CENTRING VISE



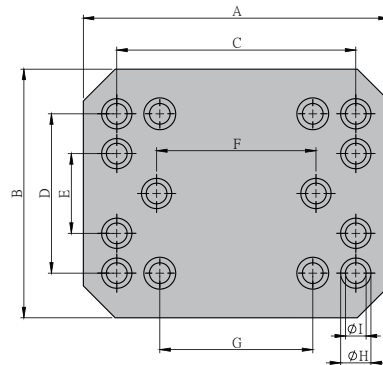
本體材質:球墨鑄鐵 Using FDC60

規格 Spec.	A	B	C	D	E ₁	E ₂	E ₃	E ₄	F ₁	F ₂	G	H	J ₁	J ₂	J ₃	夾持力 Power	重量 (KGS) Weight
LM-VE-60SC	60	120	143	60	25	12.5	12.5	-	17.5	-	23	18	0-50	38-85	-	15KN	6.00
LM-VE-100SC	101	240	260	80	40	18	18	4	35	31	20	22	0-90	70-160	134-222	15KN	16.0
LM-VE-160SC	160	370	440	105	55	27.5	27.5	-	42.5	-	70	22	0-200	86-285	-	18KN	47.0

CC-QCP96-192 快換式定位盤

CC-QCP96-192 QUICK-CHANGE BASE PLATE

範例 Example

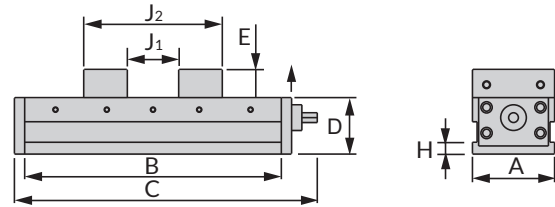
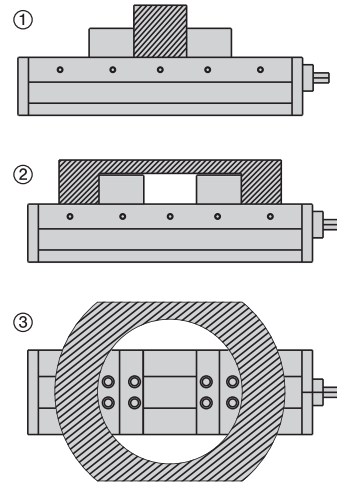


特點 Feature

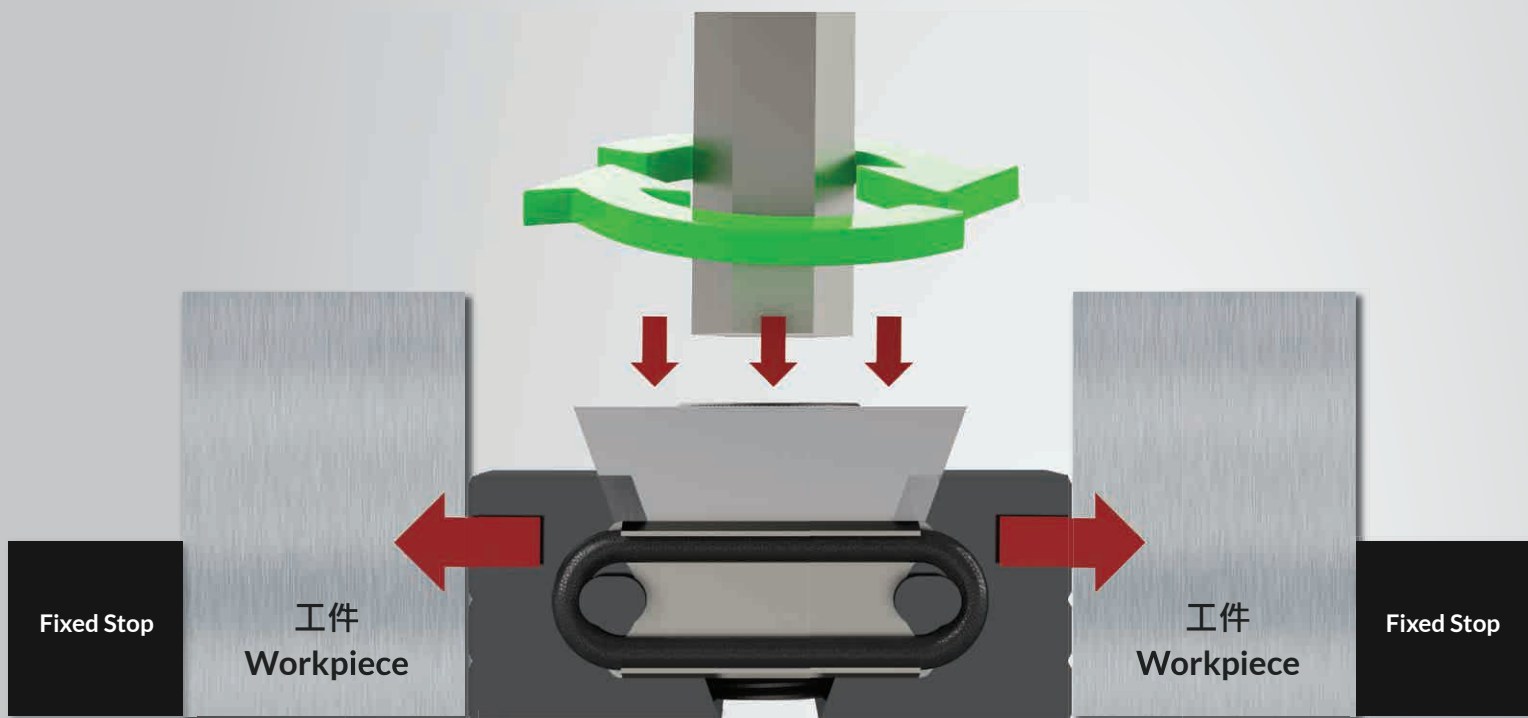
- 搭配 LM-VE-127SC、LM-VE-153SC、LM-VE-210SC 使用
- 重覆定位: ±0.005mm
- 材質: 合金鋼

- Need to be used with LM-VE-127SC、LM-VE-153SC、LM-VE-210SC
- Precision of its center repetition position is ± 0.01mm.
- Material: Alloy steel

規格 Spec.	A	B	C	D	E	F	G	H	I	備註
CC-QCP96-192	192	156	150	100	50	100	96	19	13	附 4 只定位拉栓



規格 Spec.	A	B	C	D	E	H	J1	J2	重量 (KGS) Weight
LM-VE-100DCS	101	310	410	95	40	23	60~170	220~305	30.0
LM-VE-130DCS	130	410	510	100	50	23	60~250	220~405	40.0
LM-VE-160DCS	160	490	590	110	55	23	60~320	230~485	60.0
LM-VE-200DCS	200	565	665	120	60	23	60~365	260~560	100.0



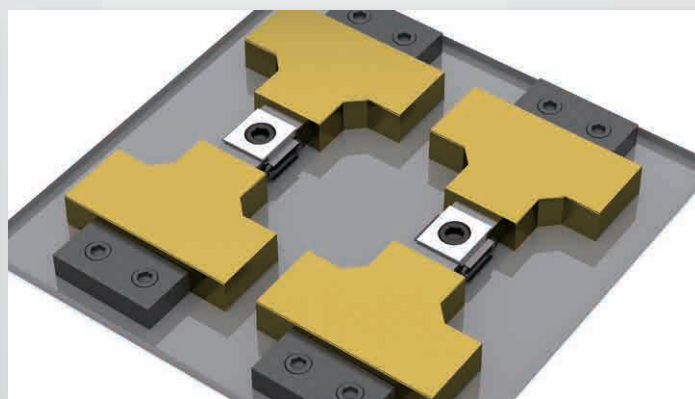
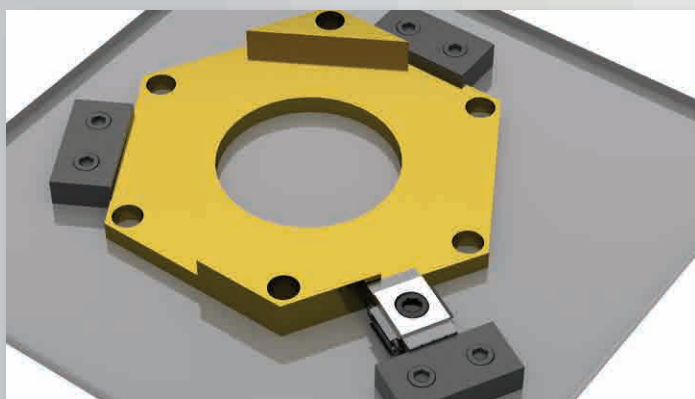
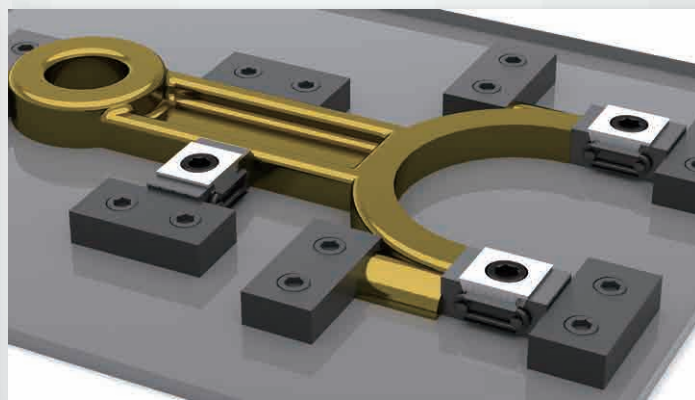
特點

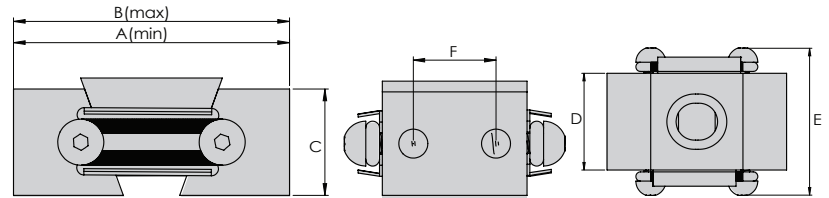
運用六角扳手輕鬆鎖固之設計結構。
Designed with a hexagonal wrench for easy locking.

Features

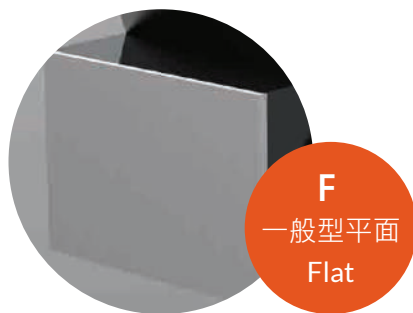
迷你型虎鉗更換工件及設置快速的特點，可靈活運用因應不同變化設計需求。
LM-OKV to replace the workpiece and set the fast features, can flexibly use the design requirements to adapt to different changes.

適用於不同工作平台 (三軸、四軸、五軸及臥式皆可使用)。
Suitable for different working platforms (three-axis, four-axis, five-axis and horizontal).





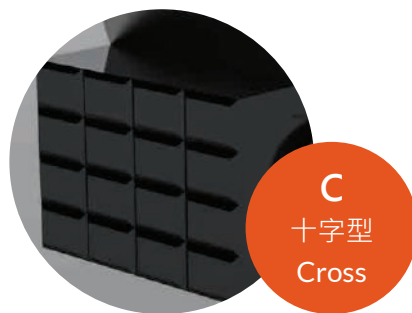
規格 Spec.	形式 Type	行程 Stroke	AB 尺寸範圍 AB Size Range	C	D	E	F	重量 (KGS) Weight
LM-OKV-2425F	一般型平面	1mm	24.5-25.5mm	11	15	21.5	-	0.04
LM-OKV-3742F		5mm	37-42mm	15	21	32	-	0.1
LM-OKV-4751F		4mm	47-51mm	22	30	37	-	0.26
LM-OKV-2425C	十字型	1mm	24.5-25.5mm	11	15	21.5	-	0.04
LM-OKV-3742C		5mm	37-42mm	15	21	32	-	0.1
LM-OKV-4751C		4mm	47-51mm	22	30	37	-	0.24
LM-OKV-3742H	孔型	5mm	37-42mm	15	21	32	12(M5)	0.1
LM-OKV-4751H		4mm	47-51mm	22	30	37	18(M5)	0.24



F
一般型平面
Flat

當工件為光滑平面時，使用平面鉗口。

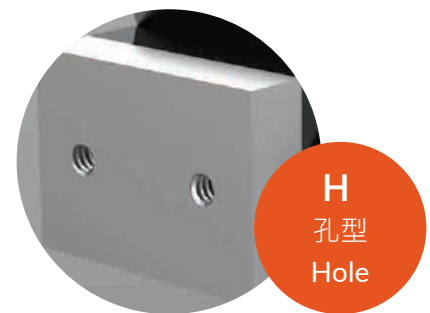
Plane jaws are used when the workpiece is a smooth plane.



C
十字型
Cross

十字型產生高摩擦力，確保在任何情況下都能可靠夾緊。

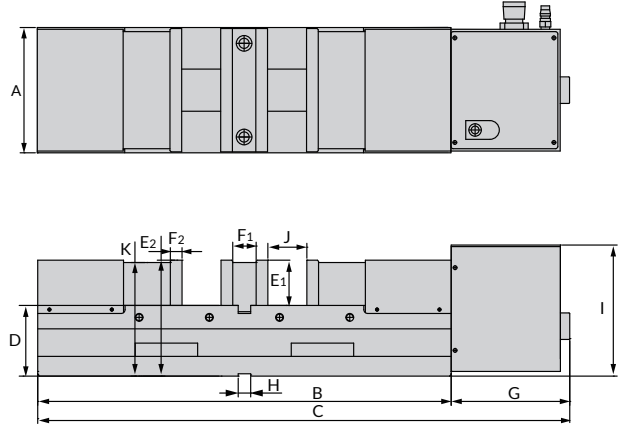
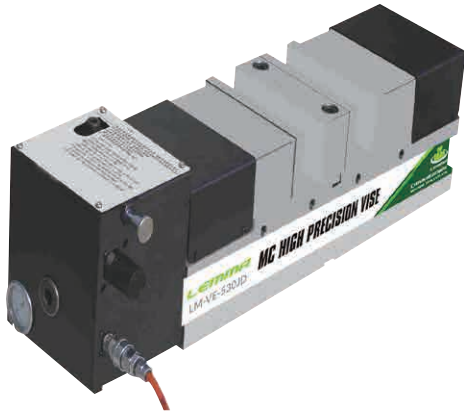
Cross type creates high friction, which ensures reliable clamping in any circumstances.



H
孔型
Hole

側面附有內螺紋，使其可以快速方便地使用各種附加零件。

Internal threads are attached to the sides, making it quick and easy to use various additional pieces.

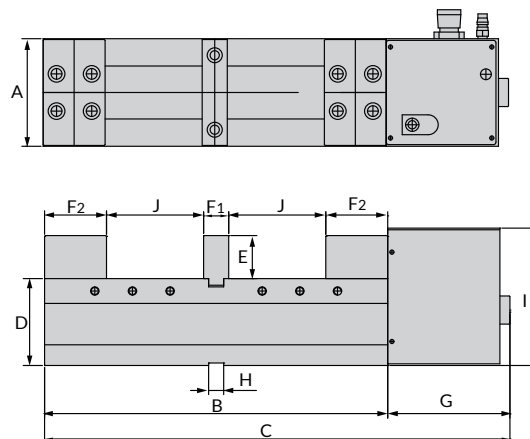
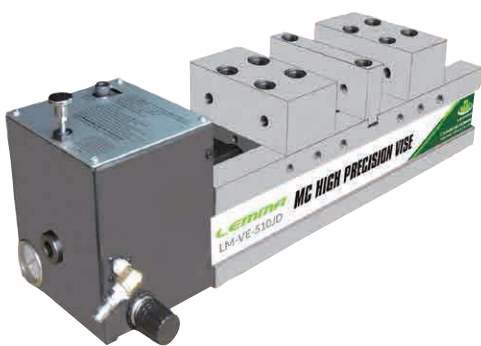


特點 Feature

- 空壓源 8kg/cm² 之低壓源，即可達 4000kgf 之超高夾持力，而夾持力從 0-4000kgf 可藉由調壓器自由調整設定

- Only need 8kg/cm² of low-voltage source to achieve 4000kgf of super high gripping force, and this gripping force can be adjusted from 0-4000kgf by using a pressure regulator.

規格 Spec.	A	B	C	D	E1	E2	F1	F2	G	H	I	J	K	夾持力 Power	重量 (KGS) Weight
LM-VE-530JD	160	530	682	90	58	3	30	15	152	18	168	0-100	145	4000kgf	66.0



特點 Feature

- 內藏浮動下壓可產生下鎖之力，可消除虎口板上浮和工作傾斜

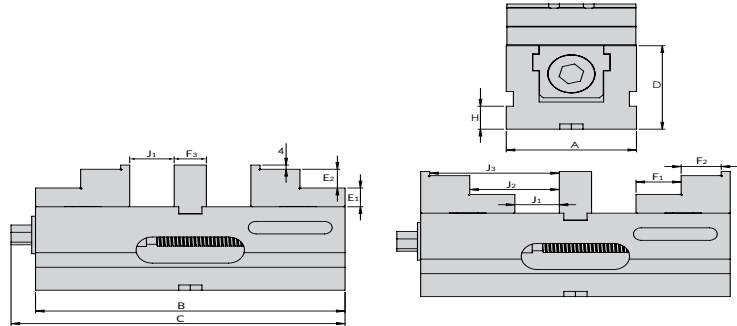
- Having built-in floating pressing structure to provide downward locking force to eliminate flotation of vise jaw and operational slope.

規格 Spec.	A	B	C	D	E	F1	F2	G	H	I	J	夾持力 Power	重量 (KGS) Weight
LM-VE-410JD	130	410	556	105	52	30	74	146	18	166	0-115	3200kgf	44.0
LM-VE-510JD	160	510	656	105	55	30	82	146	18	168	0-115	4000kgf	69.0

• 長度單位 Unit of Length (mm)

LM-VE-SD 精巧雙夾緊虎鉗

LM-VE-SD DOUBLE-CLAMPING PRECISION VISE



特點 Feature

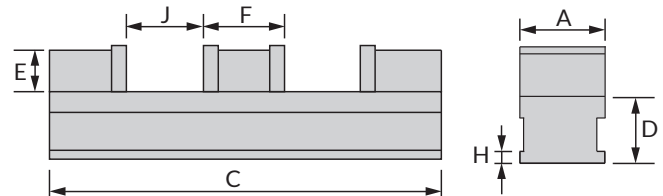
- 使用快速雙夾機構，可以同時夾緊兩邊工件，亦可單邊夾持
- 虎鉗鉗口採用全鋼材質，經熱處理硬度達 HRC55° 以上，可拆換方向使用，變化性與互換性極佳
- 虎鉗本台及鉗口有固定高度，可以組合多台同時使用
- 側面排水槽，用於排出冷卻液和切屑

- With the fast double clamp mechanism, both workpieces can be clamped at the same time, also be clamped unilaterally.
- Vise hard jaw material is full steel and heat treatment at HRC55° or more. Owing to its good design to use both sides of jaw since it is exchangeable.
- The vise and the jaws have a fixed height and can be combined for use at the same time.
- Lateral drainage slots. For drainage of coolant and chips.

規格 Spec.	A	B	C	D	E	E2	F1	F2	F3	G1	G2	H	J1	J2	J3	重量 (KGS) Weight
LM-VE-100SD	100	240	260	80	18	18	35	31	25	18	18	22	0-35	35-70	66-100	18.0

LM-VE-D 雙夾緊虎鉗

LM-VE-D DOUBLE-CLAMPING PRECISION VISE



特點 Feature

- 虎鉗採用下鎖式機構可消除虎口上浮的功能
- 在切削中心機上 1 台可變用一次可加工 2 件工件
- 延性鑄鐵的彈簧 FCD60

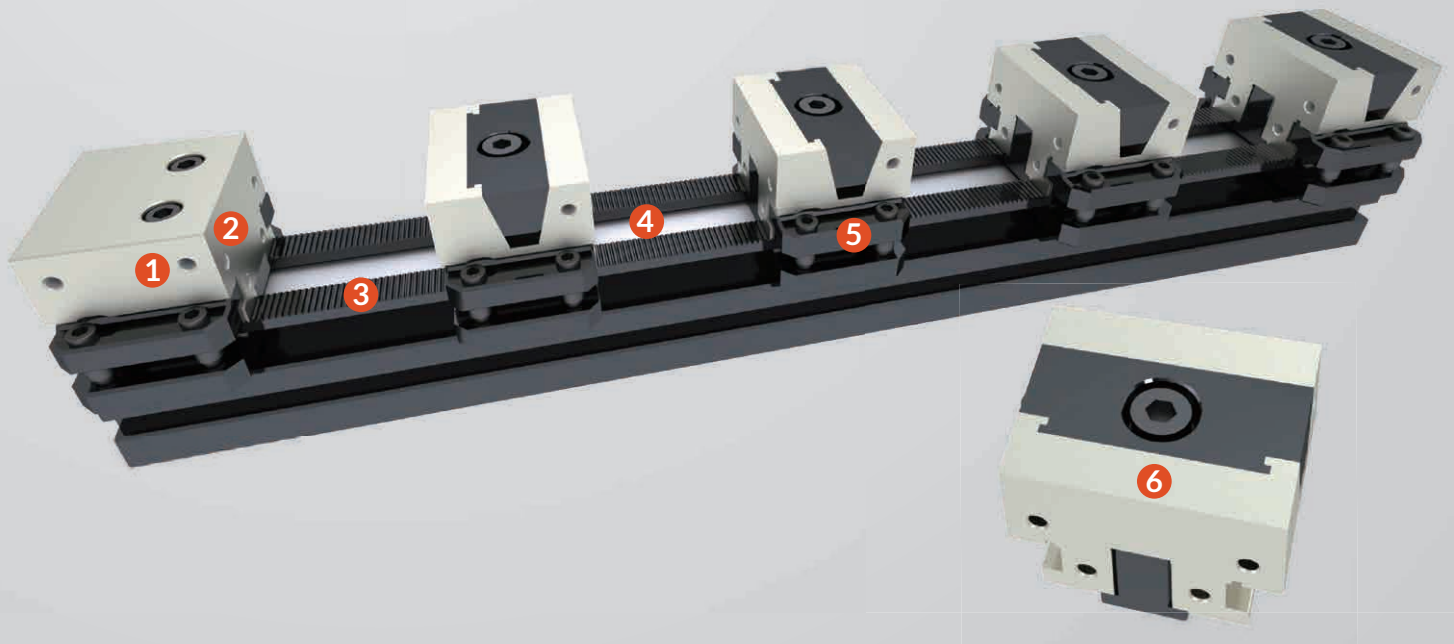
- Vise adopt downward locking structure to eliminate floating body functions.
- On the machining center with a variable of processing two parts.
- Spring of ductile iron FCD60.

規格 Spec.	A	C	D	E	F	H	J	重量 (KGS) Weight
LM-VE-100D	100	400	65	40	60	23	0-55	25.0
LM-VE-160D	160	500	85	60	66	23	0-75	50.0

• 長度單位 Unit of Length (mm)

LM-FRA 彈性並列式虎鉗特色

LM-FRA Flexible parallel vise



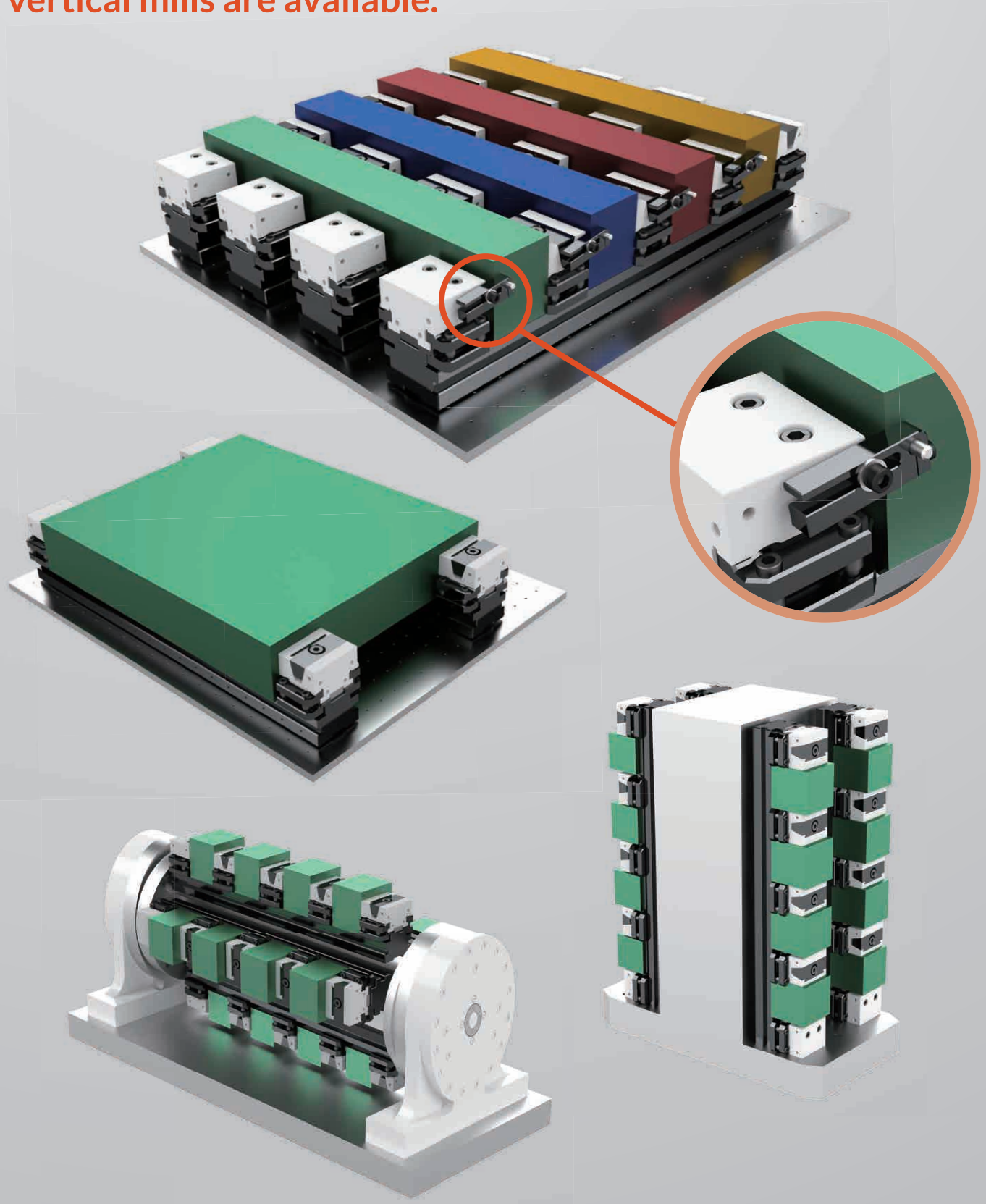
- 1 2** 預留孔位，可自行加裝治具
Reserved screw holes is convenient for optional jigs.
- 3** 排齒設計，增加穩定性，快速移動定位用
The rack design of push block improves the stability.
- 4** 擋屑板，防止鐵屑掉落
Prevent chips from sticking in the vise by the plate.
- 5** 快速固定鉗口的夾持塊
Quick-fixed clamping block.
- 6** 獨立性快拆一體式設計，快速、便利移動調整
Independent push block is able to adjust and shift conveniently.

應用實例

Cutting Application

適用臥式、立式 配合多樣治具靈活使用

The application is flexible that both horizontal mills and vertical mills are available.

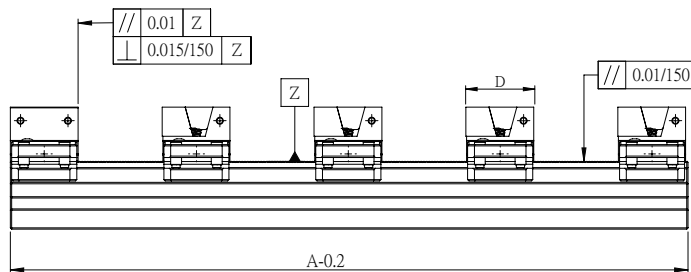
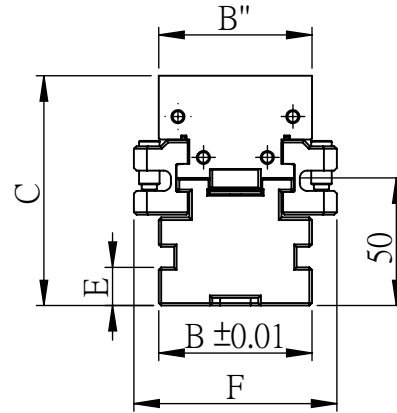
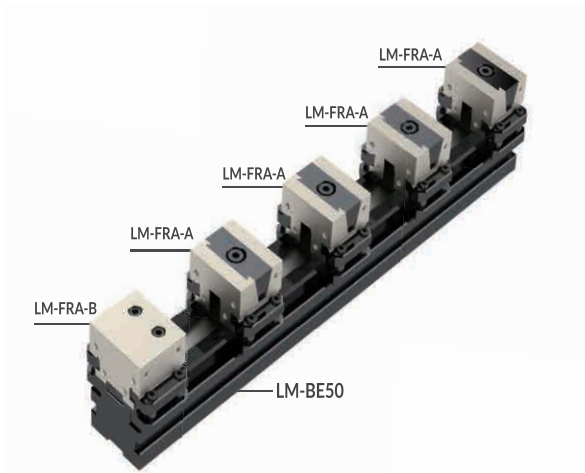


LM-FRA 彈性並列式虎鉗

LM-FRA FLEXIBLE PARALLEL VISE

LM-FRA = LM-BE50(基座 BASE) + LM-FRA-_B(固定塊 FIXED BLOCK) + LM-FRA-_A
(壓塊 BRIQUETTING)

單向平行夾持系列 Single Parallel clamping series



規格 Spec.	A	B	B'	C	D	E	F	A 型壓塊 A-type Briquetting	B 型固定塊 B-type Fixed block	重量 (KGS) Weight						
LM-FRA-48300-A	300	60	48	90	50	15	79.4	LM-FRA-48A(4PCS)	LM-FRA-48B(1PCS)	10.40						
LM-FRA-48400-A	400									12.48						
LM-FRA-48500-A	500									14.22						
LM-FRA-48600-A	600									16.31						
LM-FRA-48700-A	700									17.92						
LM-FRA-60300-A	300	60	60	90	50	15	79.4			LM-FRA-48A(4PCS)	LM-FRA-48B(1PCS)	10.96				
LM-FRA-60400-A	400											13.04				
LM-FRA-60500-A	500											14.78				
LM-FRA-60600-A	600											16.87				
LM-FRA-60700-A	700											18.48				
LM-FRA-80400-A	400	80	80	95	60	15	99.4					LM-FRA-48A(4PCS)	LM-FRA-48B(1PCS)	19.87		
LM-FRA-80500-A	500													22.63		
LM-FRA-80600-A	600													25.28		
LM-FRA-80700-A	700													27.86		
LM-FRA-80800-A	800													30.51		
LM-FRA-100400-A	400	100	100	95	60	15	119.4							LM-FRA-48A(4PCS)	LM-FRA-48B(1PCS)	23.05
LM-FRA-100500-A	500															26.60
LM-FRA-100600-A	600															30.05
LM-FRA-100700-A	700															35.46
LM-FRA-100800-A	800															38.99

A : 500 以下 (含) 附 M12T 帽及鎖固螺絲 3 set 鍵槽定位塊及螺絲 2 set

A : Spec. under 500 attached with M12T nut and locking screw 3 set keyway interlocks and 2 set screw.

A : 600 以上 (含) 附 M12T 帽及鎖固螺絲 4 set 鍵槽定位塊及螺絲 2 set

A : Spec. above 600 attached with M12T nut and locking screw 4 set keyway interlocks and 2 set screw.

• 長度單位 Unit of Length (mm)

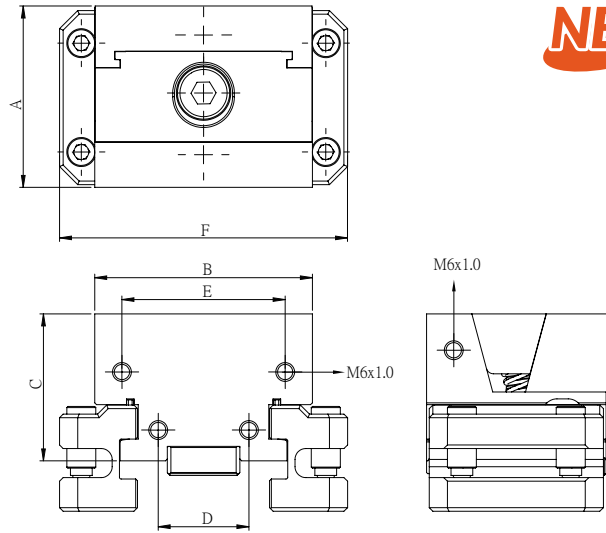


LM-FRA-_B 多夾式虎鉗固定塊

LM-FRA-_B MULTI-FOLDER VISE FIXED BLOCK

LEMMA

NEW



規格 Spec.	A	B	C	D	E	F	重量 (KGS) Weight
LM-FRA-48B	66	48	40.6	25	33	81	1.04
LM-FRA-60B	66	60	40.6	25	45	81	1.16
LM-FRA-80B	70	80	40.6	25	65	101	1.96
LM-FRA-100B	70	100	43.6	25	85	121	2.39

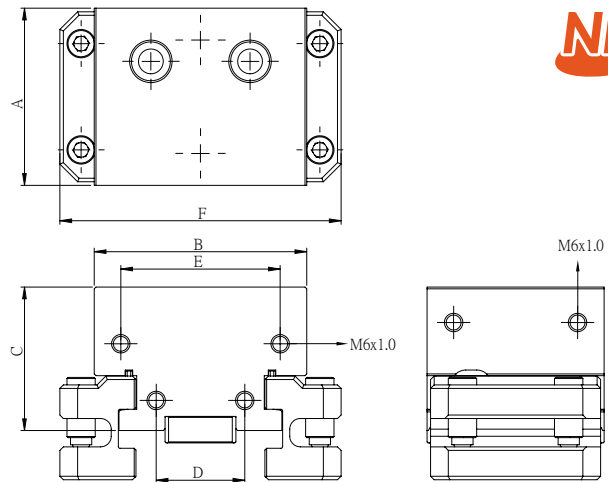


LM-FRA-_A 多夾式虎鉗壓塊

LM-FRA-_A MULTI-FOLDER VISE BRIQUETTING

LEMMA

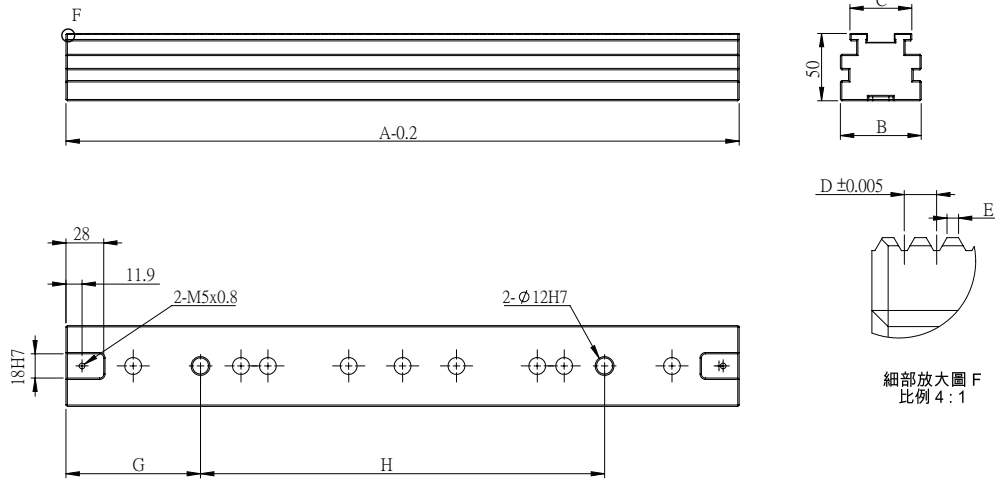
NEW



規格 Spec.	A	B	C	D	E	F	重量 (KGS) Weight
LM-FRA-48A	66	48	40.6	25	33	81	0.98
LM-FRA-60A	66	60	40.6	25	45	81	1.09
LM-FRA-80A	70	80	40.6	25	65	101	1.86
LM-FRA-100A	70	100	43.6	25	85	121	2.29

LM-BE50 多夾式虎鉗基座

LM-BE50 MULTI-FOLDER VISE BASE



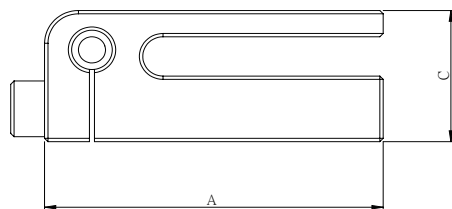
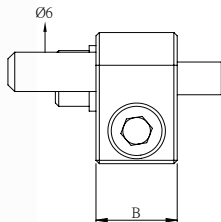
LEMMA

NEW

規格 Spec.	A	B	C	D	E	G	H	重量 (KGS) Weight
LM-BE50-60300	300	60	46	2	0.711	74.9	150	5.44
LM-BE50-60400	400					99.9	200	7.52
LM-BE50-60500	500					99.9	300	9.26
LM-BE50-60600	600					99.9	400	11.35
LM-BE50-60700	700					99.9	500	12.96
LM-BE50-80400	400	80	66	2	0.711	69.9	200	10.47
LM-BE50-80500	500						350	13.23
LM-BE50-80600	600						400	15.88
LM-BE50-80700	700						400	18.46
LM-BE50-80800	800	100	86	2	0.711	69.9	600	21.11
LM-BE50-100400	400						200	13.6
LM-BE50-100500	500						350	17.14
LM-BE50-100600	600						400	20.56
LM-BE50-100700	700						400	23.93
LM-BE50-100800	800	600	27.47					

LM-DB 基準塊

LM-DB DATUM PLATE



LEMMA

NEW

規格 Spec.	A	B	C	重量 (KGS) Weight
LM-DB-5006-A	50	12	20	0.05
LM-DB-6006-A	60			0.06

• 使用方式請參考第 774 頁應用實例
Usage please refer to the application example of page 774

• 長度單位 Unit of Length (mm)



Fig.1

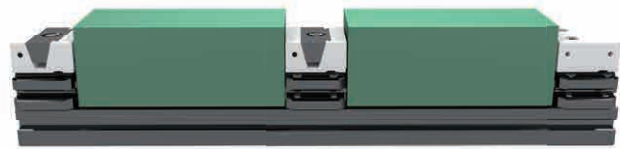


Fig.2



Fig.3

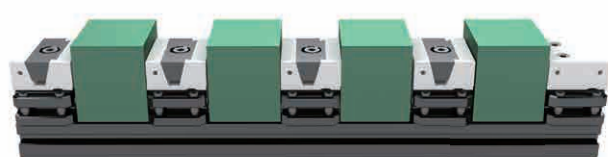


Fig.4

規格 Spec.	最大工件範圍 Biggest range of workpiece			
	一個工件 1 workpiece	二個工件 2 workpieces	三個工件 3 workpieces	四個工件 4 workpieces
	Fig.1	Fig.2	Fig.3	Fig.4
LM-FRA-048300-A	168	50	12	-
LM-FRA-048400-A	268	100	44	16
LM-FRA-048500-A	368	150	78	42
LM-FRA-048600-A	468	200	112	66
LM-FRA-048700-A	568	250	144	92
LM-FRA-060300-A	168	50	12	-
LM-FRA-060400-A	268	100	44	16
LM-FRA-060500-A	368	150	78	42
LM-FRA-060600-A	468	200	112	66
LM-FRA-060700-A	568	250	144	92
LM-FRA-080400-A	260	94	40	12
LM-FRA-080500-A	360	144	72	36
LM-FRA-080600-A	460	194	106	62
LM-FRA-080700-A	560	244	140	86
LM-FRA-080800-A	660	294	172	112
LM-FRA-100400-A	260	94	40	12
LM-FRA-100500-A	360	144	72	36
LM-FRA-100600-A	460	194	106	62
LM-FRA-100700-A	560	244	140	86
LM-FRA-100800-A	660	294	172	112

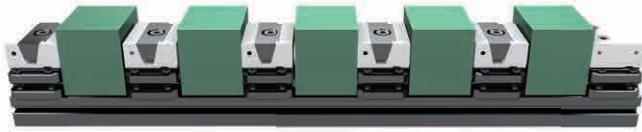


Fig.1



Fig.2

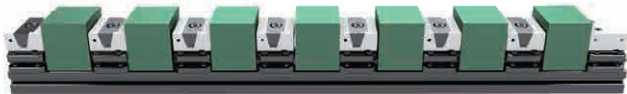
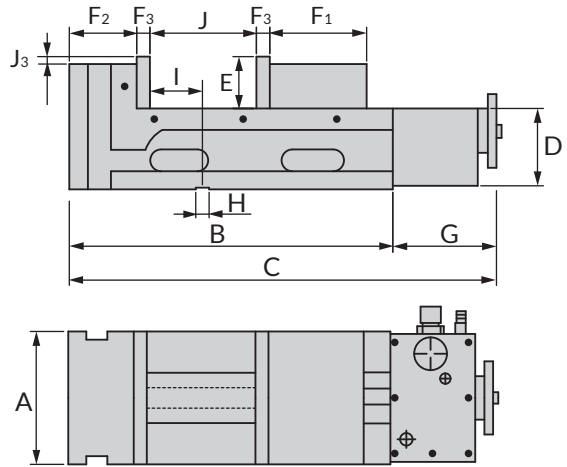


Fig.3

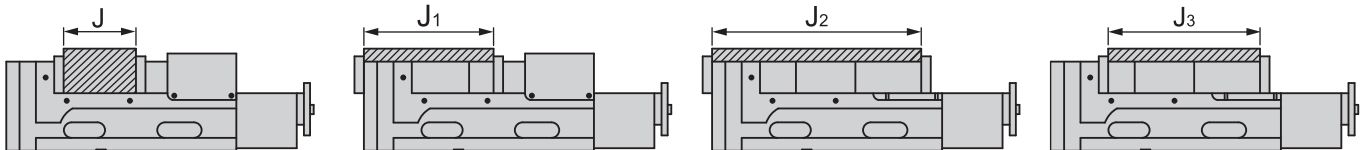
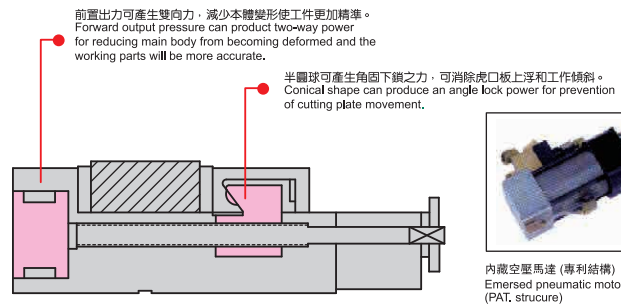
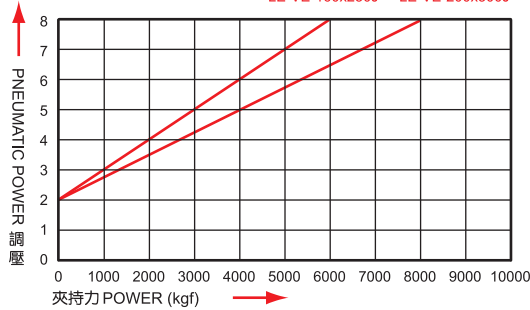


Fig.4

規格 Spec.	最大工件範圍 Biggest range of workpiece			
	五個工件 5 workpieces	六個工件 6 workpieces	七個工件 7 workpieces	八個工件 8 workpieces
	Fig.1	Fig.2	Fig.3	Fig.4
LM-FRA-048300-A	-	-	-	-
LM-FRA-048400-A	-	-	-	-
LM-FRA-048500-A	20	6	-	-
LM-FRA-048600-A	40	22	10	-
LM-FRA-048700-A	60	38	24	12
LM-FRA-060300-A	-	-	-	-
LM-FRA-060400-A	-	-	-	-
LM-FRA-060500-A	20	6	-	-
LM-FRA-060600-A	40	22	10	-
LM-FRA-060700-A	60	38	24	12
LM-FRA-080400-A	-	-	-	-
LM-FRA-080500-A	16	-	-	-
LM-FRA-080600-A	36	18	4	-
LM-FRA-080700-A	56	34	20	8
LM-FRA-080800-A	76	50	34	20
LM-FRA-100400-A	-	-	-	-
LM-FRA-100500-A	16	-	-	-
LM-FRA-100600-A	36	18	4	-
LM-FRA-100700-A	56	34	20	8
LM-FRA-100800-A	76	50	34	20



LE-VE-130x150J LE-VE-180x200J
 LE-VE-160x160J LE-VE-200x200J
 LE-VE-160x250J LE-VE-200x300J



特點 Feature

- 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 可藉由調壓器自由調整設定
- 開關速度只需 1.5 秒，夾持安全距離可達 8mm，並可設有手輪安全線，可輕易由肉眼辨識出工件夾持之安全距離，是否超限
- 定寸規格，本體六面磨光並預留壓板槽，不須治具板，即可直立加工

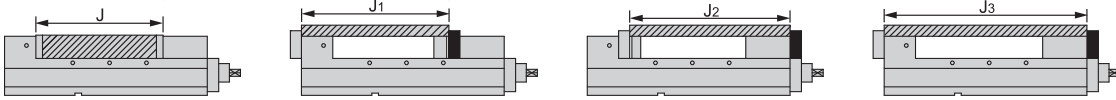
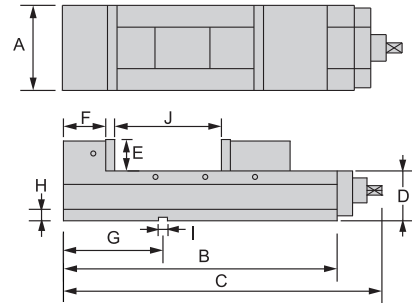
- Even the air source at low pressure 8kg/cm² which can be achieved super high gripping force can be adjusted freely by pressure regulator.
- The shifting speed is only 1.5 sec. with safety range: 8mm, also equipped with safety line on hand wheel to easily identify with eye whether if the safety distance of workpiece clamping is exceeded.
- Six faces of vise body be super grinding & pre-setting pad slot, and can be processed vertically without jig fixture.

規格 Spec.	A	B	C	D	E	F ₁	F ₂	F ₃	G	H	I	J	J ₁	J ₂	J ₃	夾持力 Power	重量 (KGS) Weight
LM-VE-100-100J	100	320	435	100	48	100	85	15	125	16	45	0-100	95-220	100-200	200-300	3200kgf	29.0
LM-VE-130-150J	130	380	505	105	55	110	85	15	125	18	45	0-150	95-250	110-275	200-380	6000kgf	40.0
LM-VE-160-160J	160	400	525	105	58	120	85	15	125	18	45	0-160	95-260	120-295	210-400	6000kgf	50.0
LM-VE-160-250J	160	490	615	105	58	120	85	15	125	18	45	0-250	95-350	120-395	210-490	6000kgf	55.0
LM-VE-180-200J	180	460	585	110	63	130	90	18	125	18	72	0-200	100-300	130-350	220-460	9000kgf	72.0
LM-VE-200-200J	200	470	595	110	63	140	90	18	125	18	72	0-200	100-310	140-360	230-470	9000kgf	80.0
LM-VE-200-300J	200	570	695	110	63	140	90	18	125	18	72	0-300	100-410	140-460	230-570	9000kgf	90.0

• 長度單位 Unit of Length (mm)

CHW-_B 機械式精密虎鉗

CHW-_B MULTIFOLDER VISE FIXED BLOCK



特點 Feature

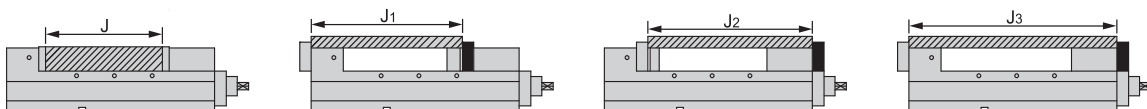
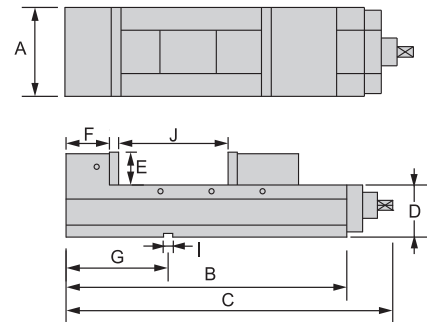
- 附防止所夾持工件上浮的角固裝置
- 無增壓機構 · 適用於較軟的工件夾持

- The unit had prevent lifting structure.
- Not turbo-charged organization, is suitable for clamping the soft workpiece.

規格 Spec.	A	B	C	D	E	F	G	H	I	J	J ₁	J ₂	J ₃	重量 (KGS) Weight
CHW-100B	100	400	490	85	45	80	110	23	18	200	230	260	340	30.0
CHW-130B	130	450	540	95	50	85	135	23	18	240	285	320	405	43.0
CHW-160B	160	550	640	100	60	103	200	23	18	300	380	400	500	61.0
CHW-200B	200	600	690	110	65	108	220	23	18	340	438	470	578	84.0

LM-VE-_B 機械式虎鉗

LM-VE-_B MULTIFOLDER VISE FIXED BLOCK

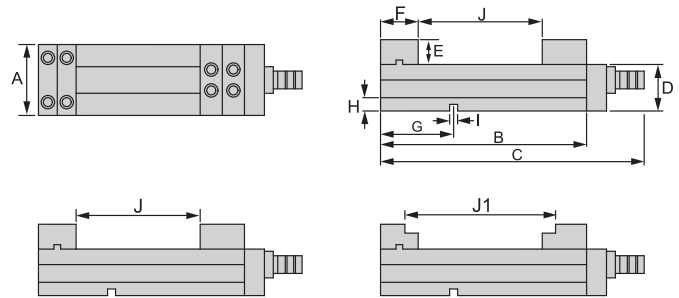


特點 Feature

- 高剛性結構
- 角固機械式虎鉗適合中、輕切削做精密加工
- 虎鉗本台使用高抗張力球狀石墨鑄鐵 · 抗張力強 · 不易變形

- High rigidity type.
- Holding work-piece firmly in single and multiple vises setup.
- Rigid and high tensile casting of ductile iron.

規格 Spec.	A	B	C	D	E	F	G	I	Jaw Opening(Max.)				重量 (KGS) Weight
									J	J ₁	J ₂	J ₃	
LM-VE-100B	101	340	430	85	48	80	125	16	125	190	230	320	26.0
LM-VE-130B	131	405	495	95	55	85	150	18	180	240	290	380	39.0
LM-VE-160B	161	495	585	105	58	100	165		240	320	360	470	57.0
LM-VE-200B	201	570	666	110	63	108	190		280	360	420	540	86.0



特點 Feature

- 內藏防止上浮機制，夾持時往下方的力亦作動，因此工件及可動體的上浮極小，又本體及固定顎為一體構造，因此可防止鉗體的傾倒

- This unit had prevent lifting structure, when clamping, downward power also gearing, so the workpiece and movable parts lift very small, the body and solid jaw is a combination structure, it does not tilt.

規格 Spec.	A	B	C	D	E	F	G	H	I	J	J ₁	夾持力 Power	重量 (KGS) Weight
LM-VE-100C	100	310	400	95	45	70	110	23	18	150	225	-	28.0
LM-VE-130C	130	410	500	100	50	80	135	23	18	250	330	-	46.0
LM-VE-160C	160	490	580	110	55	85	150	23	18	300	385	-	60.0
LM-VE-200C	200	565	655	120	60	100	220	23	18	350	450	-	100.0



- 較同等級虎鉗鉗口為深，可確實夾持較高之工件
-The jaw more deeper than those of same grade vise. Can clamping higher work piece correctly.



- 全自動伸縮防塵設計，可防止切削屑所引起的動作不良
-Chip cover adopted, preventing chips falling into causing bad motion.



- 較同等級虎鉗有近兩倍的開口，可輕易夾持較長工件
-Double opening than those of same grade vise. Can easy clamp longer work piece.



標準附件：

1. 把手壹組
2. 導正鍵 2 個
M6x10L 螺絲 2 支
3. 虎鉗防屑裝置
4. 虎鉗固定塊 (4 只)

特別附件 (另購)：

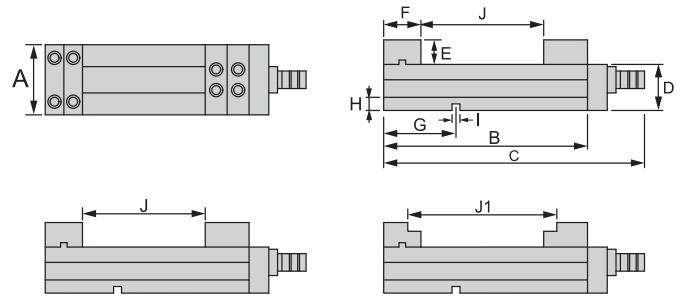
1. 特別虎口
2. 虎鉗定位器
3. 大開口鉗口壹組 (LJ)

Standard Accessories:

- 1.Handle-1 set
- 2.Guide key-2pcs
Screw-M6x10Lx2pcs
- 3.Chip cover
- 4.Vise positioner

Optional Accessories:

- (Purchase separately)
- 1.Special application jaw plates.
 - 2.Vise positioner
 - 3.Opening jaw plates



特點 Feature

- 內藏防止上浮機制，夾持時往下方的力亦作動，因此工件及可動體的上浮極小，又本體及固定顎為一體構造，因此可防止鉗體的傾倒

- This unit had prevent lifting structure, when clamping, downward power also gearing, so the workpiece and movable parts lift very small, the body and soil jaw is a combination structure, it does not tilt.

規格 Spec.	A	B	C	D	E	F	G	H	I	J	J ₁	夾持力 Power	重量 (KGS) Weight
LM-VE-100S	100	310	435	95	45	70	110	23	18	140	200	4000kgf	30.0
LM-VE-130S	130	410	535	100	50	80	135	23	18	230	315	4000kgf	48.0
LM-VE-160S	160	490	615	110	55	85	150	23	18	300	385	5000kgf	62.0
LM-VE-200S	200	565	690	120	60	100	220	23	18	350	450	5000kgf	105.0



- 全自動伸縮防護設計，可防止切屑所引起之動作不良
-Chip covered adopted, preventing chips falling into causing bad motion.



- 較同等級虎鉗有近兩倍的開口，可輕易夾持較長工件
-Double opening than those of same grade vise. Can easy clamp longer work piece.



- 新開發專利無油倍力定壓式機械增壓系統可輕易設定所需壓力(如表)夾持力永不退壓
-New development patented, oil-free powerful mechanical boost system. Which gives greater clamping and never collapsing pressure.

1	800kgf
2	2000kgf
3	3000kgf
4	4000kgf
5	5000kgf



標準附件：

1. 把手壹組
2. 導正鍵 2 個
M6x10L 螺絲 2 支
3. 虎鉗防屑裝置
4. 虎鉗固定塊 (4 只)

特別附件 (另購)：

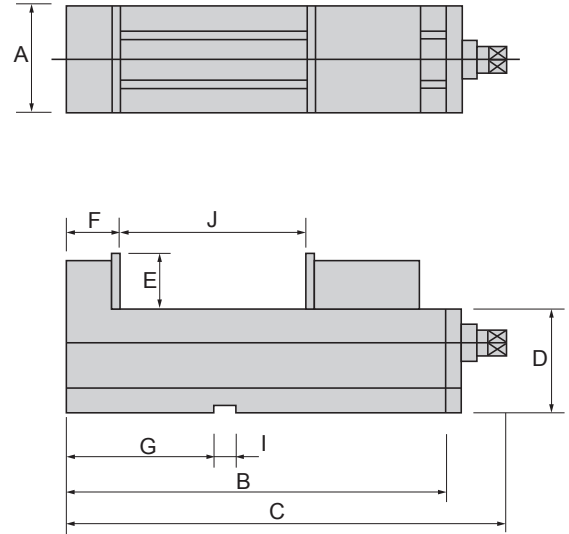
1. 特別虎口
2. 虎鉗定位器
3. 大開口鉗口壹組 (LJ)

Standard Accessories:

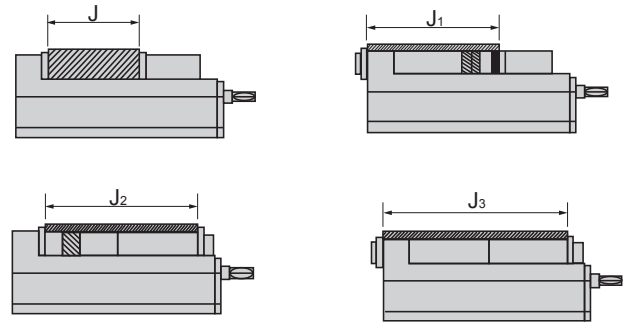
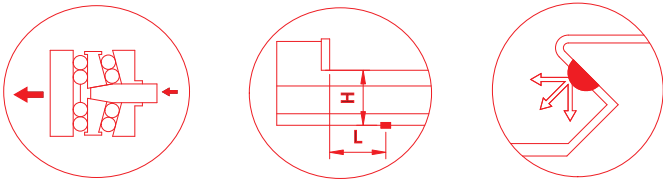
- 1.Handle-1 set
- 2.Guide key-2pcs
Screw-M6x10x2pcs
- 3.Chip cover
- 4.Vise positioner

Optional Accessories:

- (Purchase separately)
- 1.Special application jaw plates.
 - 2.Vise positioner
 - 3.Opening jaw plates



範例 Example

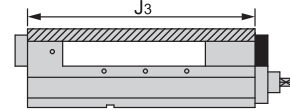
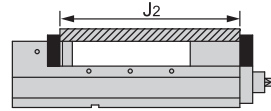
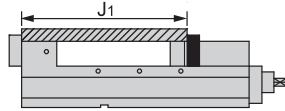
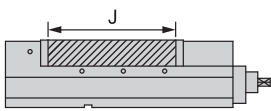
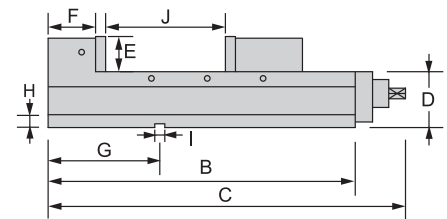
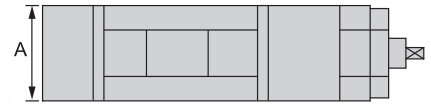


特點 Feature

- 倍力式增壓機構
- 總長度較短、大開口、轉動扳手較省力

- Mechanical power structure.
- The total length is short, the big aperture, rotate the spanner to reduce effort.

規格 Spec.	A	B	C	D	E	F	G	I	J	J ₁	J ₂	J ₃	夾持力 Power	重量 (KGS) Weight
LM-VE-100P	101	400	490	85	48	80	125	16	150	200	240	330	3000kgf	27.0
LM-VE-130P	131	465	555	95	55	85	150	18	230	250	300	390	3500kgf	40.0
LM-VE-160P	161	555	645	105	58	100	165	18	300	330	370	480	4000kgf	60.0
LM-VE-200P	201	630	720	110	63	108	190	18	340	370	430	550	4500kgf	81.0

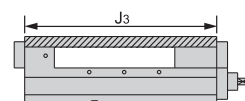
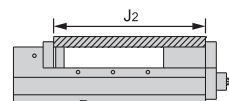
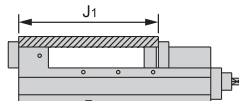
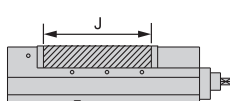
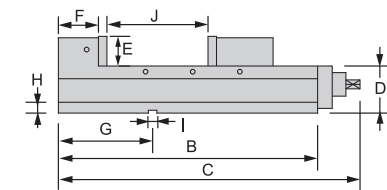
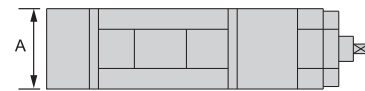
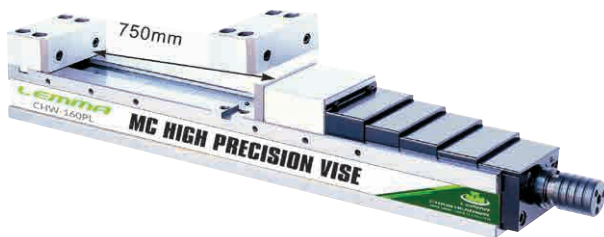


特點 Feature

- 附防止所夾持工件上浮的角固裝置
- 倍力式增壓機構

- The unit had prevent lifting structure.
- Mechanical power structure.

規格 Spec.	A	B	C	D	E	F	G	H	I	J	J ₁	J ₂	J ₃	夾持力 Power	重量 (KGS) Weight
CHW-100P	100	400	530	85	45	80	110	23	18	200	230	260	340	4000kgf	35.0
CHW-130P	130	450	580	95	50	85	160	23	18	240	285	320	405	4500kgf	48.0
CHW-160P	160	550	680	100	60	103	200	23	18	300	380	400	500	5000kgf	66.0
CHW-200P	200	600	730	110	60	108	220	23	18	340	438	470	578	5500kgf	104.0

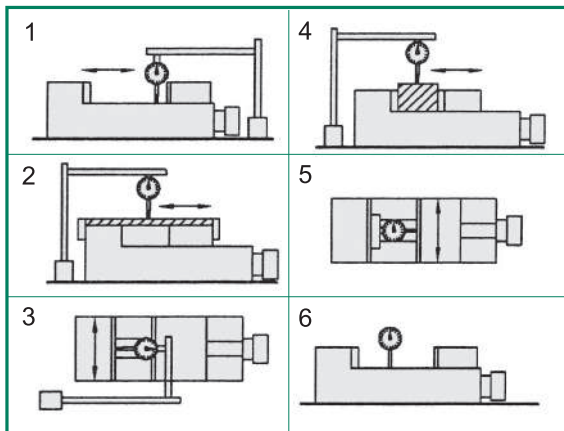
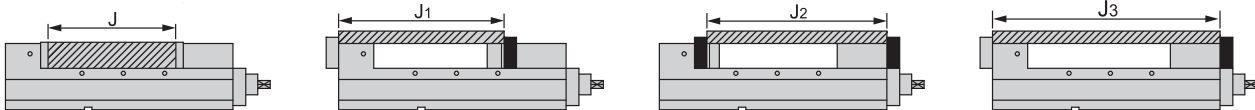
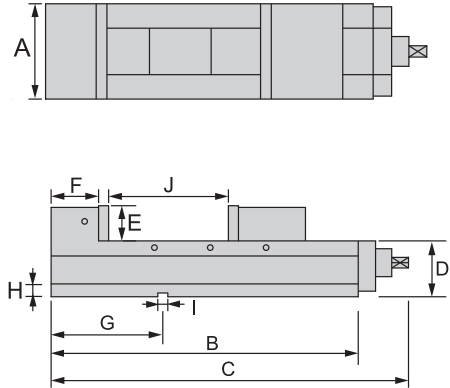


特點 Feature

- 最大開口 750mm

- Max. opening capacity 750mm.

規格 Spec.	A	B	C	D	E	F	G	H	I	J	J ₁	J ₂	J ₃	夾持力 Power	重量 (KGS) Weight
CHW-160PL	160	1000	1130	105	60	103	100	23	18	750	850	890	1000	4400kgf	108.0
CHW-200PL	200	1100	1230	110	60	108	220	23	18	840	940	990	1100	5500kgf	145.0



※ 精度測定方法 Accuracy Testing Standard

NO	檢查事項 Item	JIS 規格 1 級 JIS Grade 1	驗證許可 Guaranteed
1	虎鉗底部與滑動面之平行度 Sliding surface of vise parallel to bottom of vise body.	0.020 100mm	0.010 100mm
2	虎鉗大開口與工件之平行度 Max opening test block parallel to bottom of vise body.	0.050 100mm	0.030 100mm
3	虎鉗底部鍵槽與虎口板之直角度測定 Keyways on bottom of vise square to clamping surface of jaw plate.	0.020 100mm	0.015 100mm
4	工作夾緊後之平行度 Top of rectangular test block clamped tightly by jaw parallel to bottom of vise body.	0.030 100mm	0.020 100mm
5	兩虎口板相互平行度 The parallelism of both jaw plate.	0.020 100mm	0.020 100mm
6	虎鉗側立與工作台之直角度 Vise side stand square to the work bench.	0.020 100mm	0.010 100mm

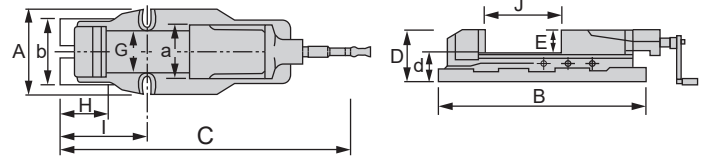
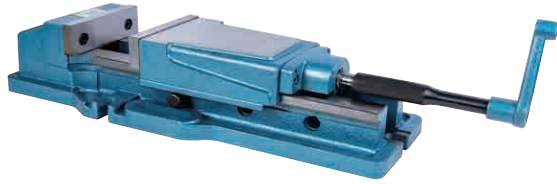
特點 Feature

- 強而有力材質 | 虎鉗本台使用球狀石墨化鑄鐵 (FCD60-60kgs/mm²) 抗張力強、耐磨性高、不易變形
- 虎鉗本台滑動面均經硬化熱處理 HRC45 以上，可保持長久耐磨性及精度

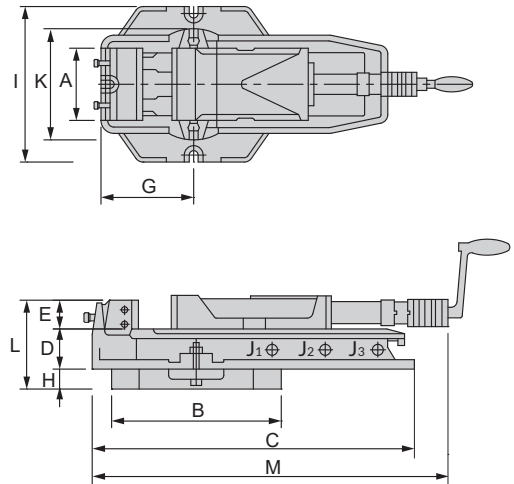
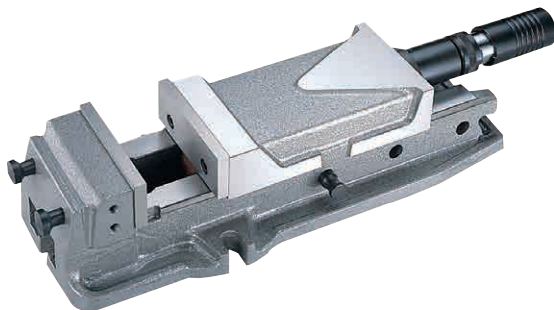
- Rigid material-vise body of ductile iron FCD60 JIS (equal to GGG60) with 60 kgs/mm² or 80000 psi tensile strength.
- Slide surface of vise frame with harden treatment up to HRC45° and keeps up wear and maintain abrasion resistance for long.

規格 Spec.	A	B	C	D	E	F	G	I	J	J ₁	J ₂	J ₃	夾持力 Power	重量 (KGS) Weight
CHW-100V	101	340	470	85	48	80	125	16	125	190	230	320	4000kgf	27.0
CHW-130V	131	405	535	95	55	85	150	18	180	240	290	380	5000kgf	40.0
CHW-160V	161	495	625	105	58	100	165	18	240	320	360	470	5500kgf	58.0
CHW-200V	201	570	700	110	63	108	190	18	280	360	420	540	6900kgf	87.0

• 長度單位 Unit of Length (mm)



規格 Spec.	A	B	C	D	E	G	H	I	J	a	b	d	開口行程 Clamping Range			挾持力 Power	重量 (KGS) Weight
													X	Y	Z		
AH-4	170	440	525	95	36	80	95	147	170	105	135	58	0~57	55~114	112~170	2500kgf	21.0
AH-5	207	550	670	120	48	97	107	195	220	130	175	70.5	0~73	72~146	145~220	3500kgf	38.0
AH-6	225	620	970	135	53	116	117	210	300	150	182	82.5	0~100	98~200	198~300	4500kgf	53.0
AH-8	280	680	900	162	62	160	150	260	300	200	260	100	0~100	99~200	198~300	8000kgf	95.0



特點 Feature

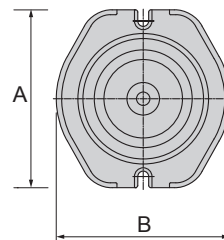
- 本體材質為球墨鑄鐵
- 角固式半圓球可產生角固下鎖之力，可消除虎口上浮和工件傾斜
- 虎鉗本台滑動面均經硬化熱處理 HRC 45°以上，可保持長久耐磨性及精度
- 油壓的最大挾持力為 4000kg

- The body is made of ductile iron.
- Down thrust "semi-sphere segment" mechanism-eliminates lift and work tilt.
- Vise bed flame hardened to HRC 45° and keeps up wear and maintain abrasion resistance for long.
- Max. hydraulic clamping force 4000kg.

規格 Spec.	A	B	C	D	E	G	H	I	K	L	M	行程開口 Stroke Opening			重量 (KGS) Weight
												J ₁	J ₂	J ₃	
LM-VE-125H	130	266	505	72	55	180	32	280	190	160	570-795	0-55	55-130	130-220	37.5
LM-VE-160H	160	320	605	82	58	195	35	334	240	192	625-935	0-58	58-160	160-310	57.4
LM-VE-200H	200	420	700	100	63	265	50	420	280	240	725-1035	0-63	63-200	200-310	94.5

規格 Spec.	A	B	C	重量 (KGS) Weight
LM-VE-125H-B	280	266	32	12.0
LM-VE-160H-B	330	310	35	16.0
LM-VE-200H-B	375	355	40	16.0

* 底盤選配 Optional chassis.



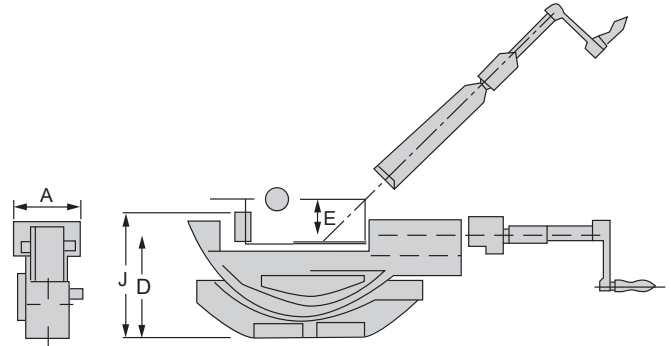
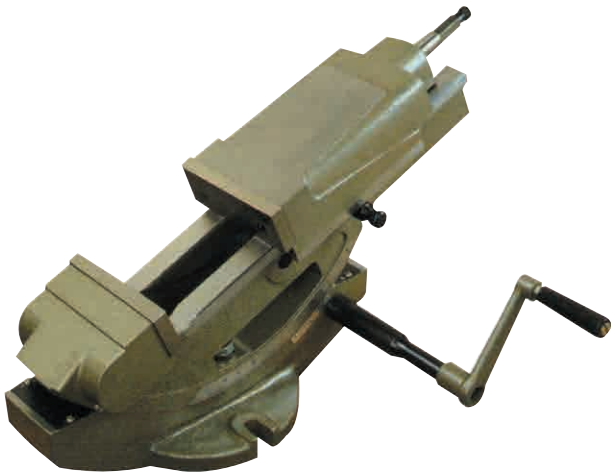
• 長度單位 Unit of Length (mm)



JLB 傾斜式油壓內藏虎鉗

JLB UNIVERSAL HYDRAULIC TILTING VISE

LEMMA



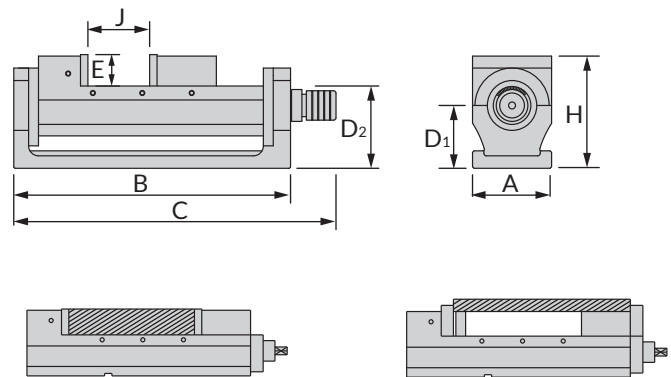
規格 Spec.	A	D	E	J	夾持力 Power	重量 (KGS) Weight
JLB-40	100	177	36	0-170	2540	23.0
JLB-60	154	237	53	0-300	4400	60.0



LM-VE- U 傾斜式虎鉗

LM-VE- U TILTING VISE

LEMMA



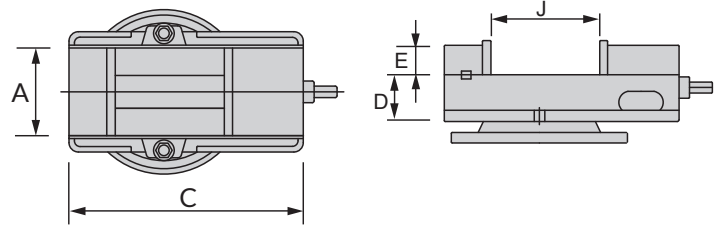
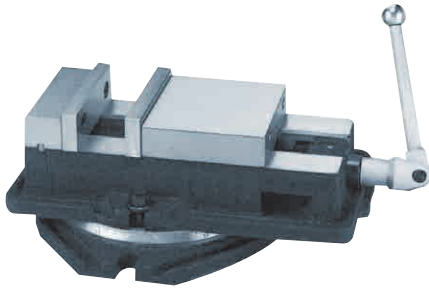
規格 Spec.	A	B	C	D ₁	D ₂	E	H	J	調整角度 Adjustable Angle	夾持力 Power	重量 (KGS) Weight
LM-VE-160U	160	550	645	126	165	63	225	200	0° ~50°	5500kgf	80.0

範例 Example



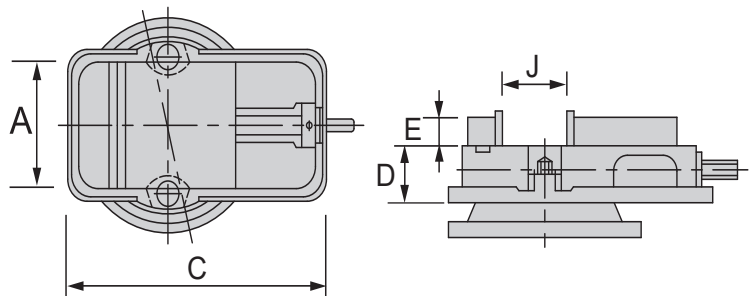
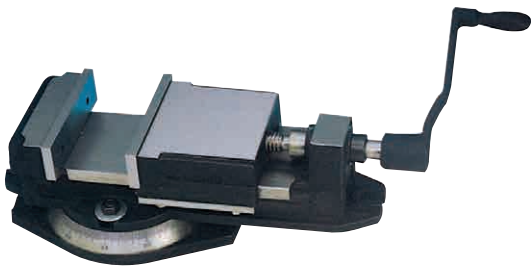
AID

• 長度單位 Unit of Length (mm)



規格 Spec.	A	C	D	E	J	重量 (KGS) Weight
AV-4	100	320	65	36	100	20.0
AV-6	150	430	72	46	140	41.0
AV-8	200	600	85	62	190	73.0
AV-12	310	-	-	125	320	125.0

※ AV-12 無底盤 AV-12 no chassis.

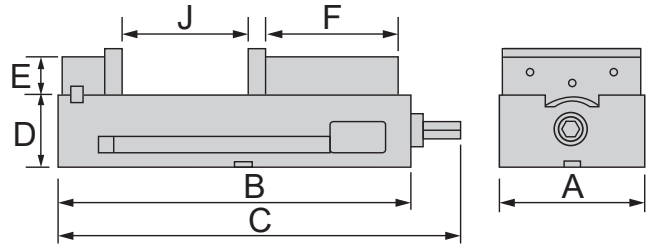
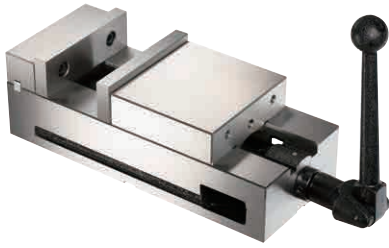


規格 Spec.	A	C	D	E	J	重量 (KGS) Weight
KV-4	100	295	55	30	65	9.00
KV-6	150	460	65	40	114	28.0
KV-8	200	620	82	58	150	53.0



直角式角固虎鉗 FIXED ANGLE VISE

LEMMA

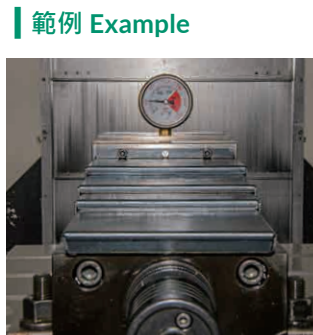


規格 Spec.	A	B	C	D	E	F	J	重量 (KGS) Weight
VAV-6	150	368	400	75	40	140	148	29.0

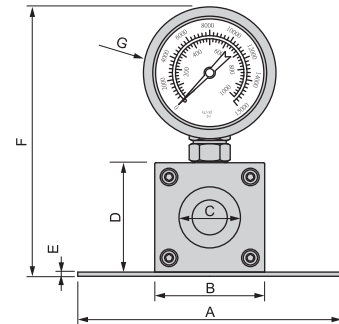


LM-PM 虎鉗測壓力計 LM-PM VISE PRESSURE GAUGE

LEMMA



範例 Example



特點 Feature

- 測量虎鉗壓力值 · 是否合乎標準值

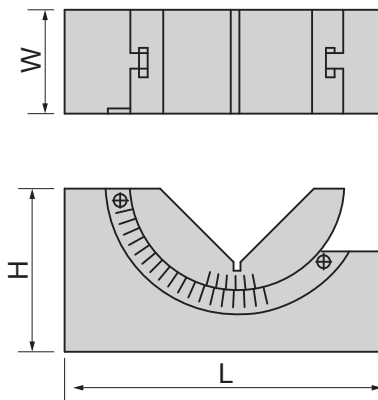
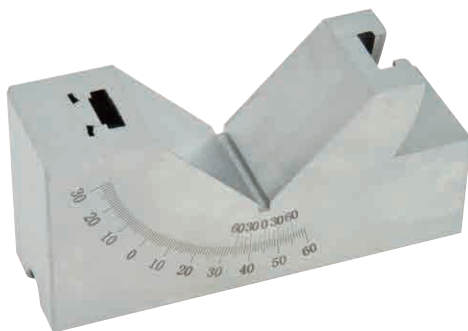
- Accurately measure the pressure of the vise clamping force. .

規格 Spec.	A	B	C	D	E	F	G	重量 (KGS) Weight
LM-PM-1000	120	50	28	50	2	140	70	1.16



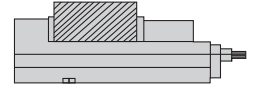
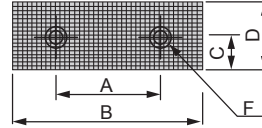
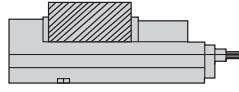
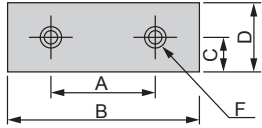
可調式角度規 ADJUSTABLE ANGLE PLATE

範例 Example



規格 Spec.	L	W	H	重量 (KGS) Weight
AP-1	102	46	47	1.50
AP-2	102	30	47	1.00
AP-3	75	25	32	0.50

• 長度單位 Unit of Length (mm)



※ 標配 Standard accessories

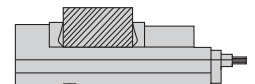
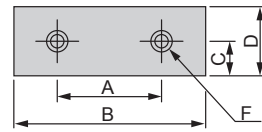
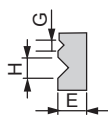
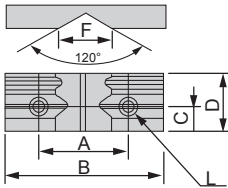
規格 Spec.	A	B	C	D	E	F	重量 (KGS) Weight
J1 - 100	70	98	25	48	15	M8	1.06
J1 - 130	100	128	25	53	15	M8	1.54
J1 - 160	100	158	25	63	18	M10	2.7
J1 - 200	120	198	28	63	18	M12	3.38

數量：一組兩塊 Qty: two piece per set

※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	重量 (KGS) Weight
J2 - 100	70	98	25	48	15	M8	1.06
J2 - 130	100	128	25	53	15	M8	1.5
J2 - 160	100	158	25	63	18	M10	2.66
J2 - 200	120	198	28	63	18	M12	3.00

數量：一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

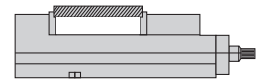
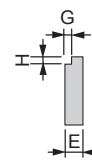
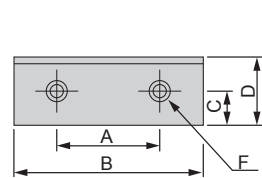
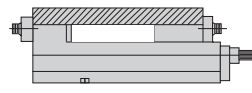
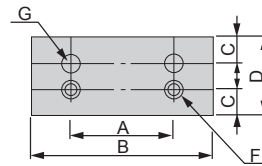
規格 Spec.	A	B	C	D	E	F	G	H	L	重量 (KGS) Weight
J3 - 100	70	98	25	48	30	25	-	25	M8	0.96
J3 - 130	100	128	25	53	30	25	12	25	M8	1.38
J3 - 160	100	158	25	63	30	25	12	27	M10	1.98
J3 - 200	120	198	28	63	34	30	12	30	M12	2.78

數量：一組一塊 Qty: one piece per set

※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	重量 (KGS) Weight
J4 - 100	70	98	25	48	30	M8	-
J4 - 130	100	128	25	53	32	M8	-
J4 - 160	100	158	25	63	32	M10	2.4
J4 - 200	120	198	28	63	40	M12	-

數量：一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

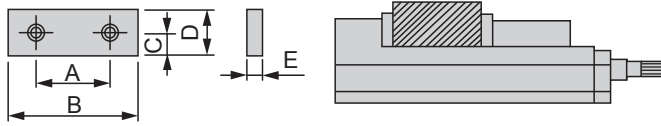
規格 Spec.	A	B	C	D	E	F	G	重量 (KGS) Weight
J5 - 100	70	98	25	58	24	M8	M12	1.9
J5 - 130	100	128	25	63	24	M8	M12	3.28
J5 - 160	100	158	25	73	24	M10	M14	4.4
J5 - 200	120	198	28	77	24	M12	M16	5.82

數量：一組兩塊 Qty: two piece per set

※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	G	H	重量 (KGS) Weight
J6 - 100	70	98	25	48	15	M8	5	5	1.02
J6 - 130	100	128	25	53	15	M8	5	5	1.48
J6 - 160	100	158	25	63	18	M10	5	5	2.64
J6 - 200	120	198	28	63	18	M12	5	5	3.28

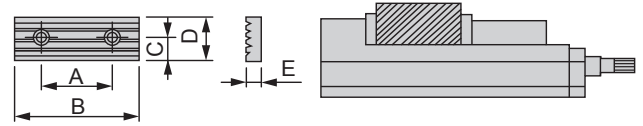
數量：一組兩塊 Qty: two piece per set



※ 標配 Standard accessories

規格 Spec.	A	B	C	D	E	重量 (KGS) Weight
HJ-100	60	100	22	48	15	1.04
HJ-130	90	130	25	55	15	1.58
HJ-160	90	160	25	58	15	1.50
HJ-200	120	200	28	63	18	-

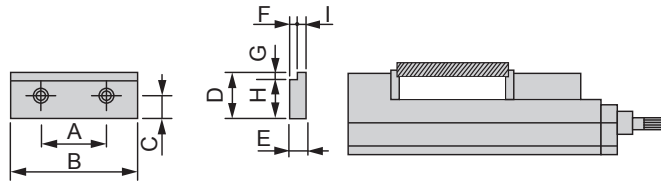
數量：一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	重量 (KGS) Weight
LJ-100	60	100	22	48	15	-
LJ-130	90	130	25	55	15	-
LJ-160	90	160	25	58	15	-
LJ-200	120	200	28	63	18	-

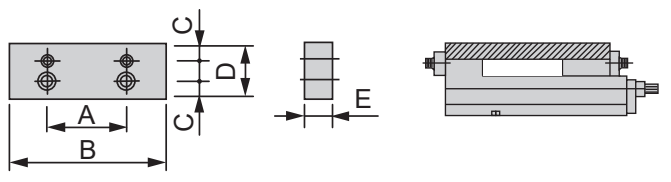
數量：一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	G	H	I
SJ-100	60	100	22	48	15	5	5	43	10
SJ-130	90	130	25	55	15	5	5	50	10
SJ-160	90	160	25	58	15	5	5	53	10
SJ-200	120	200	28	63	18	5	5	58	13

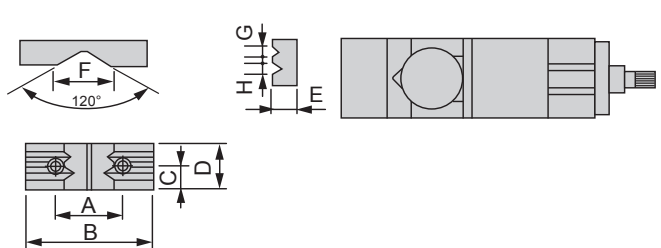
數量：一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	重量 (KGS) Weight
TJ-100	60	100	22	64	21	-
TJ-130	90	130	25	69	24	3.34
TJ-160	90	160	25	74	24	-
TJ-200	120	200	28	88	31	-

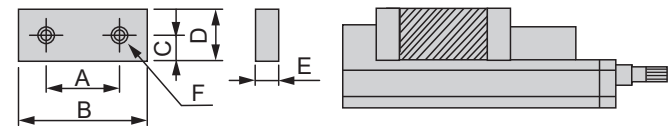
數量：一組兩塊 Qty: two piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F	G	H
VJ-100	60	100	22	48	30	120°	13.9	20.8
VJ-130	90	130	25	55	32	120°	13.9	31.2
VJ-160	90	160	25	58	32	120°	15.6	29.4
VJ-200	120	200	28	63	40	120°	12.1	24.6

數量：一組一塊 Qty: one piece per set



※ 選配 Optional accessories

規格 Spec.	A	B	C	D	E	F
FJ-1002	60	100	22	63	21	M10
FJ-1003	60	100	22	73	23	M10
FJ-1004	60	100	22	48	48	M10
FJ-1005	60	100	22	63	48	M10
FJ-1301	90	130	25	55	15	M10
FJ-1302	90	130	25	73	23	M10
FJ-1303	90	130	25	103	30	M10
FJ-1304	90	130	25	63	48	M10
FJ-1305	90	130	25	73	48	M10

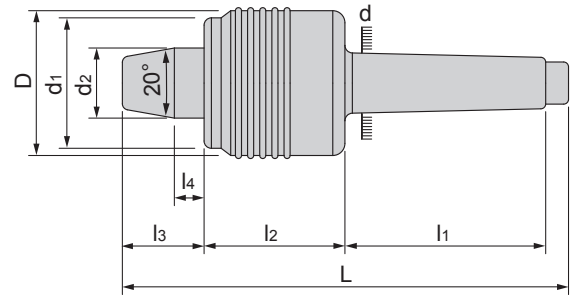
規格 Spec.	A	B	C	D	E	F
FJ-1601	90	160	25	58	15	M10
FJ-1602	90	160	25	73	23	M10
FJ-1603	90	160	25	103	30	M10
FJ-1604	90	160	25	63	48	M10
FJ-1605	90	160	25	73	48	M10
FJ-2001	90	200	28	63	18	M12
FJ-2002	90	200	28	103	30	M12
FJ-2003	90	200	28	123	37	M12
FJ-2004	90	200	28	63	63	M12
FJ-2005	120	200	28	102	63	M12

數量：一組兩塊 Qty: two piece per set

• 長度單位 Unit of Length (mm)

SC-68 標準型注油式替換頂尖

SC-68 STANDARD INTERCHANGEABLE LIVE CENTER



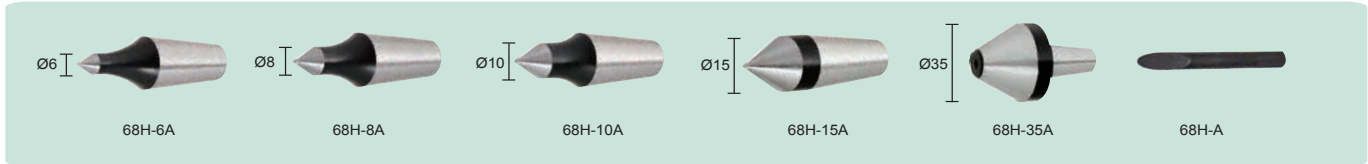
特點 Feature

- 有防水功能·本體易散熱
- 可定期注油增加使用壽命
- 頂尖子採用 SKS2(刀具鋼)
- 頂尖心軸採用 S45C
- 靜態精度 :8μ

- Characteristic of waterproof and heat dissipation.
- Regular oiling can increase the service life.
- Center adoption is made of SKS2 (tool steel)
- Center mandrel is made of S45C
- Static accuracy: 8μ.

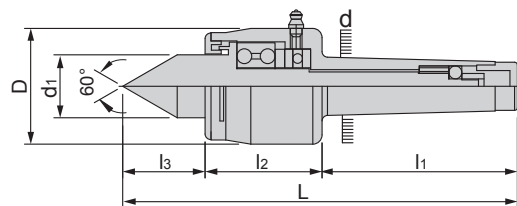
規格 Spec.	柄徑	內附零件 Included Accessories	rpm	L	l ₁	l ₂	l ₃	l ₄	D	d	d ₁	d ₂	重量 (KGS) Weight
SC-68H-MT4	MT4	G 組	4500	199	96	58	33	13	64	31.267	58	31.6	2.24
SC-68H-MT5	MT5	G 組	4500	226	120	58	33	13	64	44.399	58	31.6	3.10

零件圖 G 組 (頂尖中型) G set in drawing Medium for rotary center



MRC-MT 車床頂尖 (標準型)

STANDARD LIVE CENTER



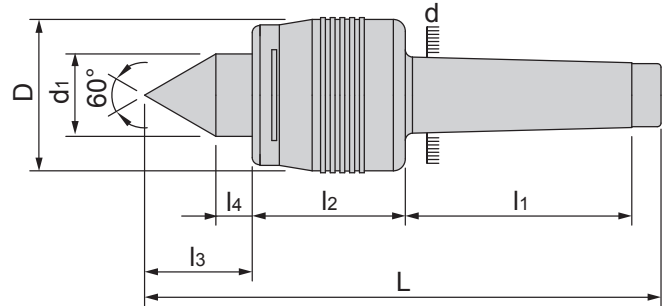
特點 Feature

- 有防水功能·本體易散熱
- 可定期注油增加使用壽命
- 頂尖心軸及頂尖子採用 SKS2(刀具鋼)
- 靜態精度 :<5μ

- Characteristic of waterproof and heat dissipation.
- Regular oiling can increase the service life.
- Center mandrel and center adoption are made of SKS2 (tool steel)
- Static accuracy: <5μ

規格 Spec.	柄徑	rpm	L	l ₁	l ₂	l ₃	D	d	d ₁	重量 (KGS) Weight
MRC-MT2	MT2	2800	171	69	52.5	43	49	17.78	35	1.60
MRC-MT3	MT3	2000	192.5	97	52.5	43	49	23.825	35	1.90
MRC-MT4	MT4	1500	213	117.5	52.5	43	49	31.267	35	2.30
MRC-MT5	MT5	1000	251.5	147	52.5	52	59	44.399	45	4.60
MRC-MT6	MT6	800	-	-	-	-	-	63.348	-	-

• 長度單位 Unit of Length (mm)

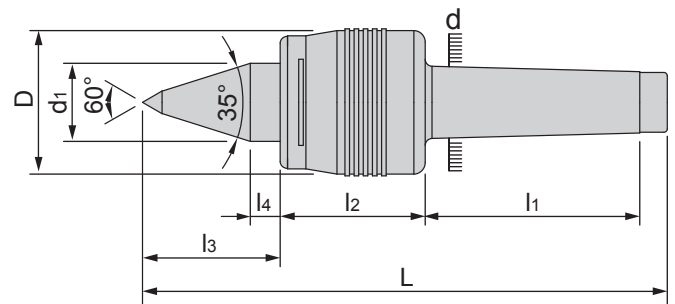


特點 Feature

- 有防水功能·本體易散熱
- 可定期注油增加使用壽命
- 頂尖心軸採用 SUJ2
- 靜態精度 :5 μ

- Characteristic of waterproof and heat dissipation.
- Regular oiling can increase the service life
- Center mandrel is made of SUJ2.
- Static accuracy: 5 μ

規格 Spec.	柄徑	rpm	L	l ₁	l ₂	l ₃	l ₄	D	d	d ₁	重量 (KGS) Weight
SC-69M-MT4	MT4	4500	210	96	58	42	14.5	64	31.267	31.6	1.86
SC-69M-MT5	MT5	4500	237	120	58	42	14.5	64	44.399	31.6	2.46



特點 Feature

- 有防水功能·本體易散熱
- 可定期注油增加使用壽命
- 頂尖心軸採用 SUJ2
- 靜態精度 :5 μ

- Characteristic of waterproof and heat dissipation.
- Regular oiling can increase the service life.
- Center mandrel is made of SUJ2.
- Static accuracy: 5 μ .

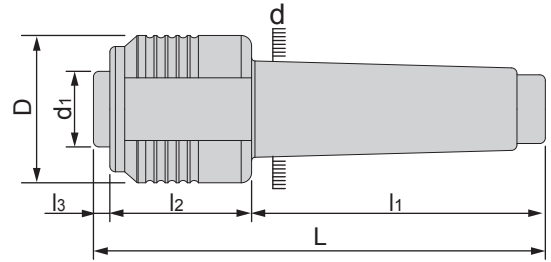
規格 Spec.	柄徑	rpm	L	l ₁	l ₂	l ₃	l ₄	D	d	d ₁	重量 (KGS) Weight
SC-70L-MT4	MT4	4500	224	108	58	58	11.5	64	31.267	31.5	2.24
SC-70L-MT5	MT5	4500	251	135	58	58	11.5	64	44.399	31.5	2.90

• 長度單位 Unit of Length (mm)

| SC-65H



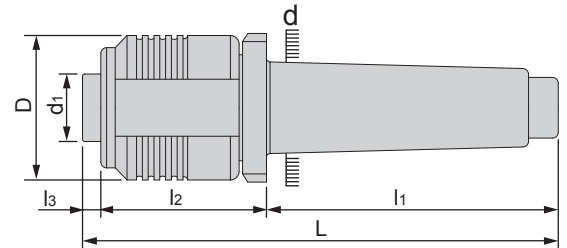
Fig.1



| SC-65HA



Fig.2



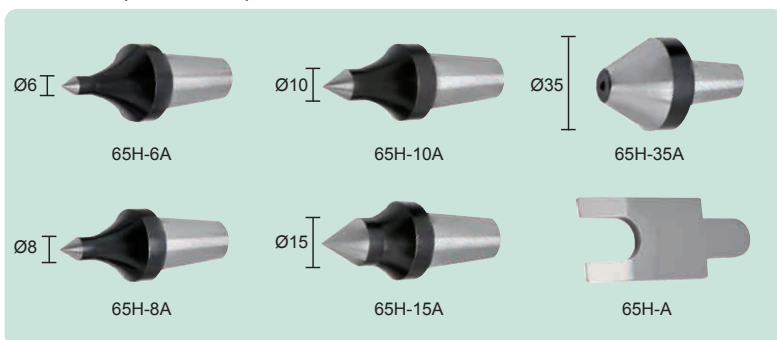
| 特點 Feature

- 增加強度使用大型頂尖子
- 有防水功能，本體易散熱
- 可定期注油增加使用壽命
- 頂尖子採用 SKS2(刀具鋼)
- 頂尖心軸採用 S45C
- 靜態精度 :8 μ
- SC-65HA 型，用螺帽推出本體輕巧方便，不致產生卡死

- Use of large center adoption for increasing strength.
- Function of waterproof and heat dissipation.
- Regular oiling can increase the service life.
- Center adoption is made of SUJ2 (tool steel).
- Center mandrel is made of S45C.
- Static accuracy: 8 μ .
- SC-65HA type launch with a nut body lightweight and convenient, preventing jammed shut.

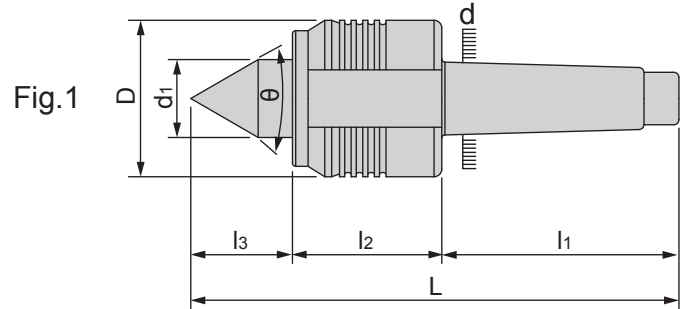
規格 Spec.	柄徑	內附零件 Included Accessories	rpm	L	l ₁	l ₂	l ₃	D	d	d ₁	徑向力 (KG)	軸向力 (KG)	Fig.	重量 (KGS) Weight
SC-65H-MT4	MT4	H 組	4000	178	108	56	14	68	31.267	31.6	1430	2700	1	3.16
SC-65H-MT5	MT5	H 組	4000	205	135	56	14	68	44.399	31.6	1430	2700	1	3.72
SC-65HA-MT4	MT4	H 組	4000	190	104	72	14	68	31.267	31.6	1430	2700	2	3.62
SC-65HA-MT5	MT5	H 組	4000	217	131	72	14	68	44.399	31.6	1430	2700	2	4.22

零件圖 H 組 (頂尖加大型) H set in drawing Enlarged for rotary center

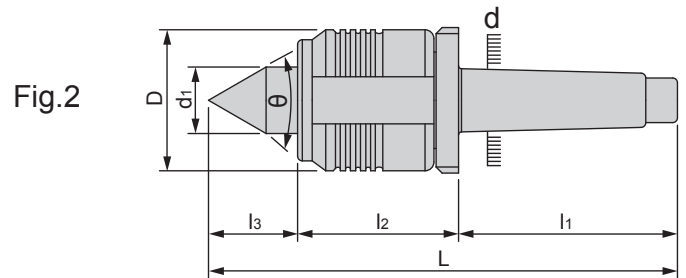


• 長度單位 Unit of Length (mm)

| SC-62H



| SC-62HA



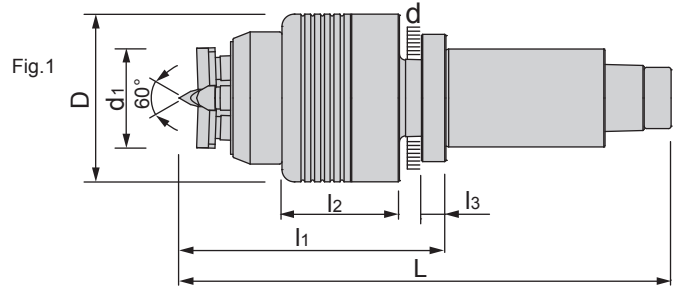
| 特點 Feature

- 有防水功能·本體易散熱
- 可定期注油增加使用壽命
- 頂尖心軸採用 SUJ2
- 靜態精度 :5 μ
- SC-62HA 型·用螺帽推出本體輕巧方便·不致產生卡死

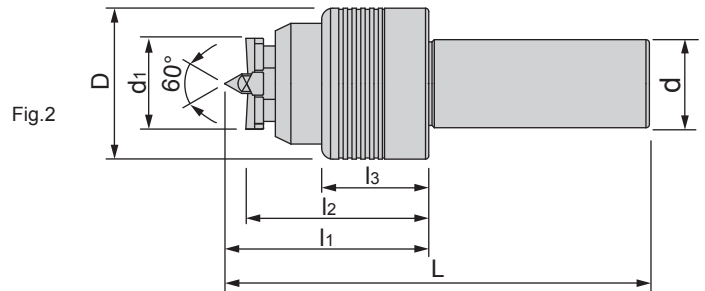
- Function of waterproof and heat dissipation.
- Regular oiling can increase the service life.
- Center mandrel using SUJ2.
- Static accuracy: 5 μ .
- SC-62HA type launch with a nut body lightweight and convenient, preventing jammed shut.

規格 Spec.	柄徑	rpm	L	l ₁	l ₂	l ₃	D	d	d ₁	θ	徑向力 (KG)	軸向力 (KG)	Fig.	重量 (KGS) Weight
SC-62H-MT4	MT4	4000	212	108	56	48	68	31.267	31.6	60°	1430	2700	1	2.20
SC-62H-MT5	MT5	4000	239	135	56	48	68	44.399	31.6	60°	1430	2700	1	2.84
SC-62HA-MT4	MT4	4000	224	104	72	48	68	31.267	31.6	60°	1430	2700	2	2.60
SC-62HA-MT5	MT5	4000	251	131	72	48	68	44.399	31.6	60°	1430	2700	2	3.66

| SC-66A



| SC-66B



| 特點 Feature

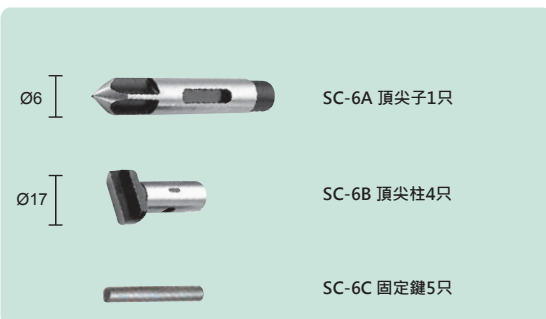
- 工作物不平時頂尖柱可自動調整穩固工作
- 頂尖子及頂尖柱可互換使用

- When workpiece is uneven, tip shaft can be adjusted automatically to stabilize the working process.
- Center tips and Center columns are used interchangeably.

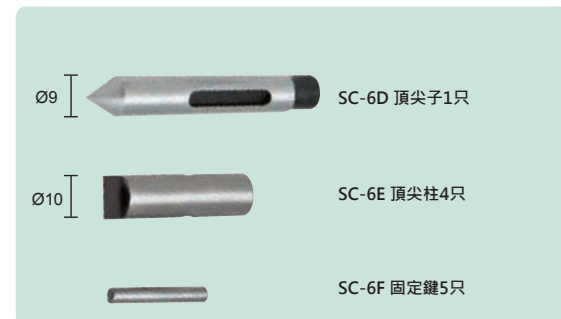
規格 Spec.	柄徑	使用範圍 Range	內附零件 Included Accessories	L	l ₁	l ₂	l ₃	D	d	d ₁	Fig.	重量 (KGS) Weight
SC-66A-MT4	MT4	A 組 Ø10~Ø60 B 組 Ø15~Ø35	零件圖 A 組 零件圖 B 組	203	109	48	10	68.5	31.267	40.5	1	3.29
SC-66B-C40	Ø40				92	82.7	48		40			

零件規格 Spec.	重量 (KGS) Weight
SC-6A	0.02
SC-6B	0.02
SC-6C	0.09
SC-6D	0.03
SC-6E	0.08
SC-6F	0.07

零件圖 A 組 A set in drawing



零件圖 B 組 B set in drawing

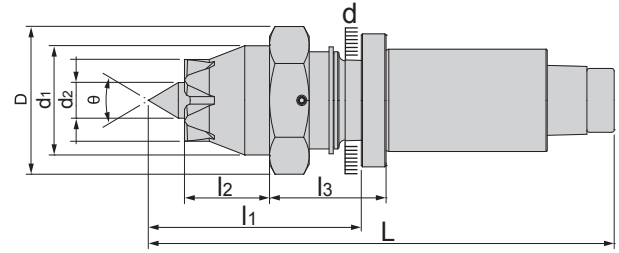


• 長度單位 Unit of Length (mm)

| SC-67A



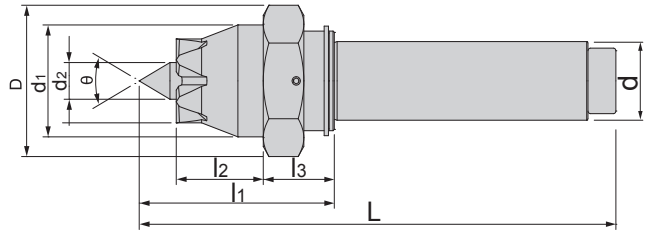
Fig.1



| SC-67B

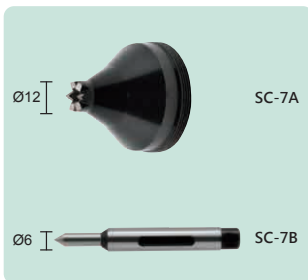


Fig.2

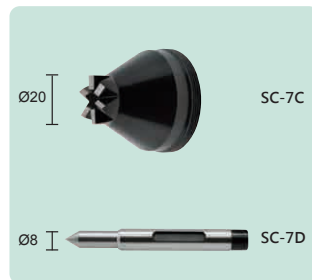


規格 Spec.	柄徑	使用範圍 Range	內附零件 Included Accessories	L	l ₁	l ₂	l ₃	D	d	d ₁	d ₂	Fig.	重量 (KGS) Weight	零件規格 Spec.	重量 (KGS) Weight
SC-67A-MT4	MT4	C組 Ø10~Ø17 D組 Ø12~Ø25 E組 Ø14~Ø30	C組 E組 D組 F組	184.9	84.6	34.3	47	57	31.267	42.7	25	1	2.22	SC-7A	0.18
SC-67B-C30	Ø30	C組 Ø10~Ø17 D組 Ø12~Ø25 E組 Ø14~Ø30	C組 E組 D組											73.9	28
														SC-7C	0.21
														SC-7D	0.42
														SC-7E	0.21
														SC-7F	0.22
														C45xMT4	-

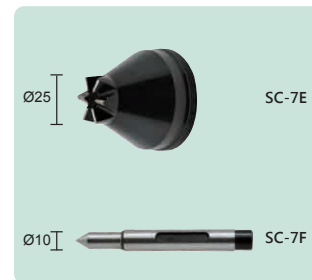
零件圖 C 組 C set in drawing



零件圖 D 組 D set in drawing



零件圖 E 組 E set in drawing

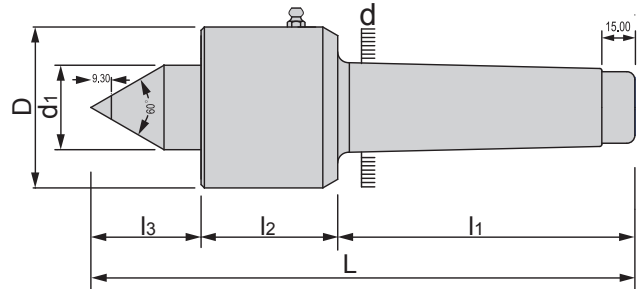


零件圖 F 組 F set in drawing



SC-100 強力重切削迴轉頂尖 (鎢鋼頂尖)

SC-100 CARBIDE LIVE CENTER FOR HEAVY TURNING

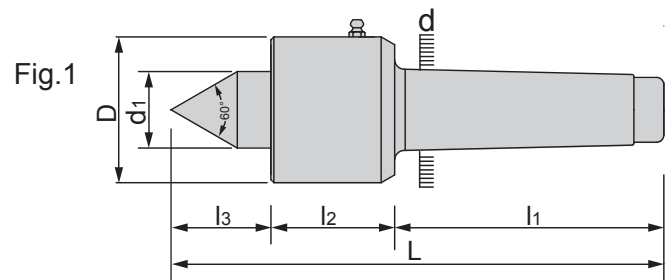


規格 Spec.	柄徑	L	l ₁	l ₂	l ₃	D	d	d ₁	重量 (KGS) Weight
SC-100-MT4C	MT4	218	108	68	42	63	31.267	34.5	2.98
SC-100-MT5C	MT5	255	135	69	51	73	44.399	44.2	4.02

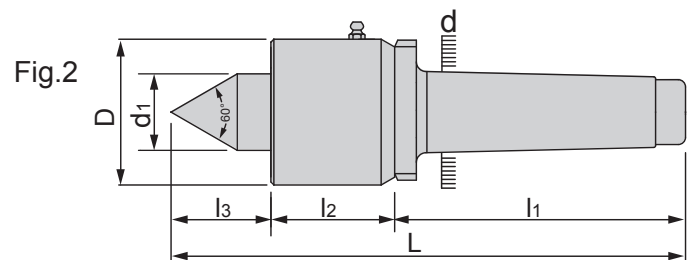
SC-60 強力型重負荷迴轉頂尖

SC-60 LIVE CENTER FOR HEAVY TURNING

| SC-60H



| SC-60HA



| 特點 Feature

- 剛性強、穩定性佳 · 適用於長軸心重負荷車削加工
- 靜態精度：5μ

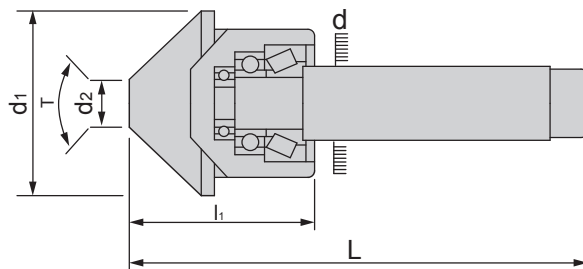
- The rigidity is strong, the stability is good, is suitable for the major axis grieving load lathe work.
- Static precision: 5μ.

規格 Spec.	柄徑	rpm	L	l ₁	l ₂	l ₃	D	d	d ₁	徑向力 (KG)	軸向力 (KG)	Fig.	重量 (KGS) Weight
SC-60H-MT4	MT4	5000	205	108	58	44	78	31.267	34.3	1900	1600	1	2.98
SC-60H-MT5	MT5		244	135	64	50	83	44.399	44.2	3000	2200	1	4.02
SC-60HA-MT6	MT6	3000	342	190	75	67	108	63.348	60	5000	3500	2	9.96

• 長度單位 Unit of Length (mm)



MT-BNC 傘型頂尖 MT-BNC BULL NOSE LIVE CENTER



特點 Feature

- HRC52°
- 同心度 : 0.005mm
- 真圓度 : 0.005mm
- 材質 : S45C

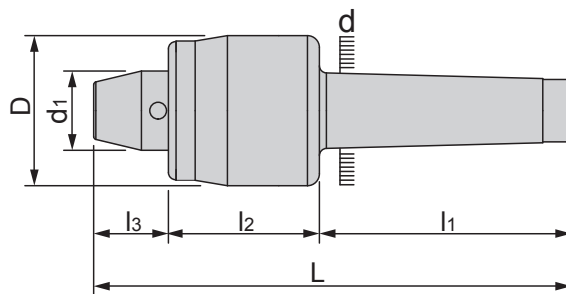
- HRC52°
- Concentricity: 0.005mm
- Roundness: 0.005mm
- Material: S45C

規格 Spec.	rpm	L	l ₁	d	d ₁	d ₂	T	重量 (KGS) Weight
MT4xBNC3	2500	179	68	31.267	78	19	60°	2.15
MT4xBNC4	2000	181	70	31.267	106	32	70°	3.10
MT4xBNC5	1900	194	83	31.267	128	35	70°	4.00
MT4xBNC6	1900	204	93	31.267	156	50	70°	7.00
MT4xBNC8	1500	223	116	31.267	206	54	70°	14.5
MT5xBNC5	1900	227	83	44.399	128	35	70°	5.50
MT5xBNC6	1900	237	93	44.399	156	50	70°	7.80
MT5xBNC8	1500	257	113	44.399	206	54	75°	14.5
MT6xBNC8	1500	298	113	63.348	206	54	75°	19.0



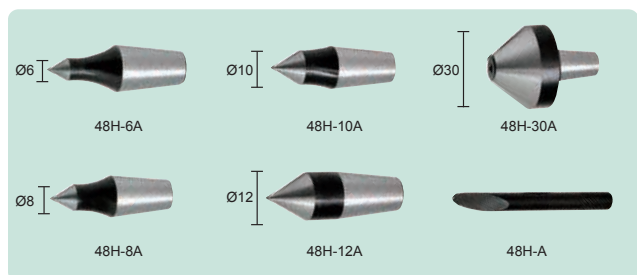
SC-48 經濟型替換頂尖 SC-48 ECONOMICAL INTERCHANGEABLE CENTER

LEMMA



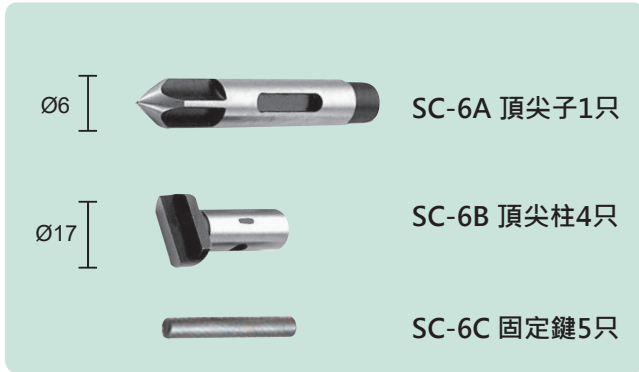
規格 Spec.	柄徑	rpm	L	l ₁	l ₂	l ₃	D	d	d ₁	重量 (KGS) Weight
SC-48H-MT4	MT4	1800	186.5	108	53	25.5	48.5	31.267	29.5	2.20

零件圖 I 組 I set in drawing

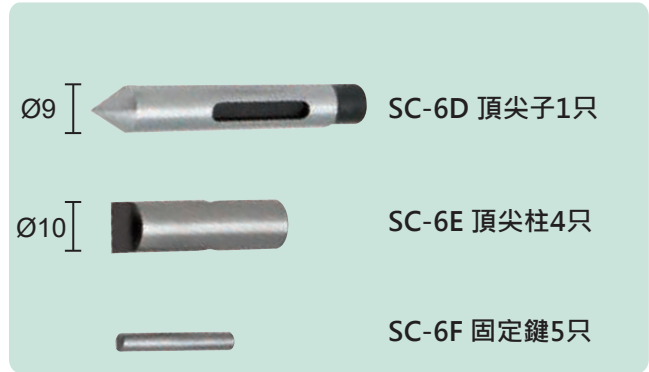


• 長度單位 Unit of Length (mm)

零件圖A組(適用:SC-66A)
A set in drawing(For use on SC-66A)



零件圖B組(適用:SC-66B)
B set in drawing(For use on SC-66B)



零件圖C組(適用:SC-67A/SC-67B)
C set in drawing(For use on SC-67A/67B)



零件圖D組(適用:SC-67A/SC-67B)
D set in drawing(For use on SC-67A/67B)



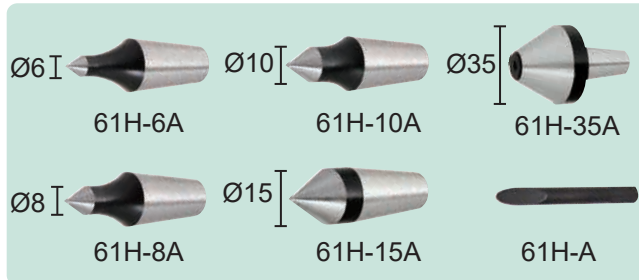
零件圖E組(適用:SC-67A/SC-67B)
E set in drawing(For use on SC-67A/67B)



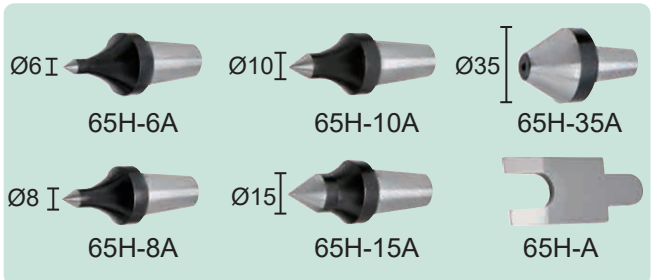
零件圖F組(適用:SC-67A/SC-67B)
F set in drawing(For use on SC-67A/67B)



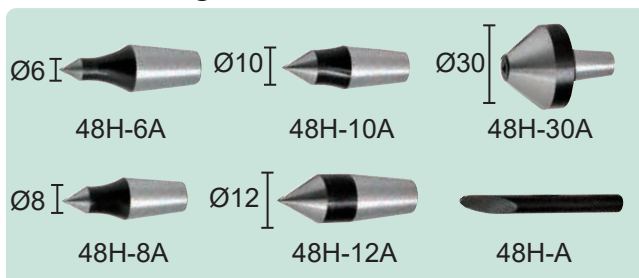
零件圖G組(頂尖中型)(適用:SC-61/SC-68)
G set in drawing - Medium(For use on SC-61 / SC-68)



零件圖H組(頂尖加大型)(適用:SC-65)
H set in drawing - Enlargement(For use on SC-65)



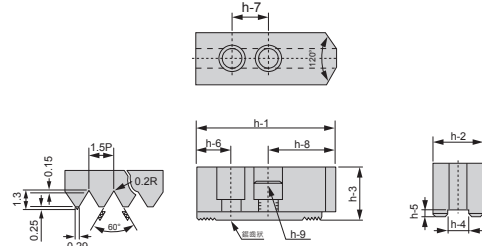
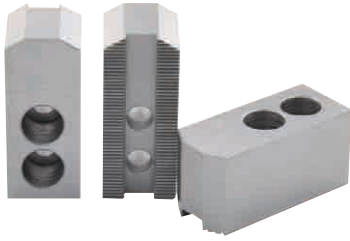
零件圖I組(頂尖小型)(適用:SC-48H)
I set in drawing - small(For use on SC-48H)





HKS 油壓生爪

HKS POWER PRESSURE SOFT JAW



規格 Spec.	h-1	h-2	h-3	h-4	h-5	h-6	h-7	h-8	h-9	鋸齒狀節具 Sprration Pitch	重量 (KGS) Weight
HKS-5	62	23	30	10	4	18	14	38	M8	1.5x60°	-
HKS-6	73	31	36	12	5		20	37	M10		-
HKS-8	95	35	38	14		22	25	46	M12		-
HKS-10	110	40	42	16		27	30	50	M12		-
HKS-12	129	50	50	18 21		30	30	60	M16		-
HKS-15	165	62	62	22	8	38	43	85	M20		-

5" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-5x62x23x30	62	23	30	-
HKS-5x62x23x50	62	23	50	-
HKS-5x62x23x70	62	23	70	-
HKS-5x62x23x80	62	23	80	-
HKS-5x62x23x100	62	23	100	-

8" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-8x95x35x37	95	35	37	-
HKS-8x95x35x37x60	95	35	37	-
HKS-8x95x35x37x90	95	35	37	-
HKS-8x95x35x37x120	95	35	37	-
HKS-8x95x35x50	95	35	50	-
HKS-8x95x35x50x60	95	35	50	-
HKS-8x95x35x50x120	95	35	50	-
HKS-8x95x35x60	95	35	60	-
HKS-8x95x35x60x60	95	35	60	-
HKS-8x95x35x60x90	95	35	60	-
HKS-8x95x35x60x120	95	35	60	-
HKS-8x95x35x70	95	35	70	-
HKS-8x95x35x70x60	95	35	70	-
HKS-8x95x35x70x120	95	35	70	-
HKS-8x95x35x80	95	35	80	-
HKS-8x95x35x90	95	35	90	-
HKS-8x95x35x100	95	35	100	-
HKS-8x95x35x110	95	35	110	-
HKS-8x95x35x120	95	35	120	-
HKS-8x95x35x130	95	35	130	-
HKS-8x95x35x140	95	35	140	-
HKS-8x95x35x150	95	35	150	-
HKS-8x95x35x160	95	35	160	-
HKS-8x95x35x180	95	35	180	-
HKS-8x95x35x200	95	35	200	-
HKS-8x95x50x35	95	50	35	-
HKS-8x95x50x35x120	95	50	35	-
HKS-8x95x50x50	95	50	50	-
HKS-8x95x50x60	95	50	60	-
HKS-8x95x50x70	95	50	70	-
HKS-8x95x50x80	95	50	80	-
HKS-8x95x50x90	95	50	90	-
HKS-8x95x50x100	95	50	100	-
HKS-8x95x50x120	95	50	120	3.00
HKS-8x95x50x150	95	50	150	-

6" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-6x73x31x36	73	31	36	-
HKS-6x73x31x36x60	73	31	36	-
HKS-6x73x31x36x90	73	31	36	-
HKS-6x73x31x36x120	73	31	36	-
HKS-6x73x31x50	73	31	50	-
HKS-6x73x31x60	73	31	60	-
HKS-6x73x31x70	73	31	70	-
HKS-6x73x31x70x60	73	31	70	-
HKS-6x73x31x80	73	31	80	-
HKS-6x73x31x90	73	31	90	-
HKS-6x73x31x100	73	31	100	-
HKS-6x73x31x110	73	31	110	-
HKS-6x73x31x120	73	31	120	-
HKS-6x73x31x130	73	31	130	-
HKS-6x73x31x150	73	31	150	-
HKS-6x73x50x31	73	50	31	-
HKS-6x73x50x36	73	50	36	-
HKS-6x73x50x50	73	50	50	-
HKS-6x73x50x60	73	50	60	-
HKS-6x73x50x70	73	50	70	-
HKS-6x73x60x31	73	60	31	-
HKS-6x73x60x36	73	60	36	-
HKS-6x73x60x50	73	60	50	-
HKS-6x73x60x60	73	60	60	-
HKS-6x73x70x36	73	70	36	-
HKS-6x73x70x70	73	70	70	-
HKS-6x73x80x36	73	80	36	-
HKS-6x95x35x37	95	35	37	-

• 長度單位 Unit of Length (mm)



HKS 油壓生爪

HKS POWER PRESSURE SOFT JAW

8" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-8x95x60x35	95	60	35	-
HKS-8x95x60x50	95	60	50	-
HKS-8x95x60x60	95	60	60	-
HKS-8x95x60x70	95	60	70	-
HKS-8x95x60x80	95	60	80	-
HKS-8x95x60x90	95	60	90	-
HKS-8x95x60x100	95	60	100	-
HKS-8x95x60x120	95	60	120	-
HKS-8x95x60x150	95	60	150	-
HKS-8x95x70x35	95	70	35	-
HKS-8x95x70x50	95	70	50	-
HKS-8x95x70x60	95	70	60	-
HKS-8x95x70x70	95	70	70	-
HKS-8x95x80x40	95	80	40	-
HKS-8x95x80x50	95	80	50	-
HKS-8x95x80x60	95	80	60	-
HKS-8x95x80x80	95	80	80	-
HKS-8x95x90x90	95	90	90	-
HKS-8x95x100x40	95	100	40	-
HKS-8x95x100x50	95	100	50	-
HKS-8x95x100x60	95	100	60	-
HKS-8x95x100x100	95	100	100	-
HKS-8x95x120x50	95	120	50	-
HKS-8x130x35x40	130	35	40	-
HKS-8x130x35x50	130	35	50	-
HKS-8x150x35x50	150	35	50	-
HKS-8x150x35x70	150	35	70	-

10" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-10x110x40x42	110	40	42	-
HKS-10x110x40x42x60	110	40	42	-
HKS-10x110x40x42x120	110	40	42	-
HKS-10x110x40x50	110	40	50	-
HKS-10x110x40x60	110	40	60	-
HKS-10x110x40x70	110	40	70	-
HKS-10x110x40x80	110	40	80	-
HKS-10x110x40x80x60	110	40	80	-
HKS-10x110x40x80x120	110	40	80	-
HKS-10x110x40x90	110	40	90	-
HKS-10x110x40x100	110	40	100	-
HKS-10x110x40x110	110	40	110	-
HKS-10x110x40x120	110	40	120	-
HKS-10x110x40x130	110	40	130	-
HKS-10x110x40x140	110	40	140	-
HKS-10x110x40x150	110	40	150	-
HKS-10x110x40x160	110	40	160	-
HKS-10x110x40x180	110	40	180	-
HKS-10x110x40x200	110	40	200	-
HKS-10x110x40x220	110	40	220	-
HKS-10x110x50x50	110	50	50	-
HKS-10x110x50x60	110	50	60	-
HKS-10x110x50x70	110	50	70	-
HKS-10x110x50x80	110	50	80	-
HKS-10x110x50x100	110	50	100	-

10" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-10x110x60x40	110	60	40	-
HKS-10x110x60x50	110	60	50	-
HKS-10x110x60x60	110	60	60	-
HKS-10x110x60x70	110	60	70	-
HKS-10x110x60x80	110	60	80	-
HKS-10x110x60x100	110	60	100	-
HKS-10x110x70x40	110	70	40	-
HKS-10x110x70x50	110	70	50	-
HKS-10x110x70x70	110	70	70	-
HKS-10x110x70x70x60	110	70	70	-
HKS-10x110x70x80	110	70	80	-
HKS-10x110x80x40	110	80	40	-
HKS-10x110x80x50	110	80	50	-
HKS-10x110x80x80	110	80	80	-
HKS-10x110x90x90	110	90	90	-
HKS-10x110x100x40	110	100	40	-
HKS-10x110x100x50	110	100	50	-
HKS-10x110x100x60	110	100	60	-
HKS-10x110x100x100	110	100	100	-
HKS-10x110x120x50	110	120	50	-
HKS-10x150x40x42	150	40	42	-
HKS-10x150x40x50	150	40	50	-
HKS-10x150x40x60	150	40	60	-
HKS-10x150x40x70	150	40	70	-
HKS-10x150x40x80	150	40	80	-
HKS-10x180x40x60	180	40	60	-
HKS-10x180x40x90	180	40	90	-
HKS-10x200x40x50	200	40	50	-
HKS-10x200x40x60	200	40	60	-
HKS-10x200x40x90	200	40	90	-

12" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-12x130x50x50	130	50	50	-
HKS-12x130x50x50x60	130	50	50	-
HKS-12x130x50x60	130	50	60	-
HKS-12x130x50x70	130	50	70	-
HKS-12x130x50x80	130	50	80	-
HKS-12x130x50x90	130	50	90	-
HKS-12x130x50x100	130	50	100	-
HKS-12x130x50x110	130	50	110	-
HKS-12x130x50x120	130	50	120	-
HKS-12x130x50x130	130	50	130	-
HKS-12x130x50x140	130	50	140	-
HKS-12x130x50x150	130	50	150	-
HKS-12x130x50x160	130	50	160	-
HKS-12x130x50x170	130	50	170	-
HKS-12x130x50x180	130	50	180	-
HKS-12x130x50x190	130	50	190	-
HKS-12x130x50x200	130	50	200	-
HKS-12x130x80x80	130	80	80	-

• 長度單位 Unit of Length (mm)



HKS 油壓生爪 HKS POWER PRESSURE SOFT JAW

12" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-12x150x50x50	150	50	50	-
HKS-12x150x50x60	150	50	60	-
HKS-12x150x50x70	150	50	70	-
HKS-12x150x50x80	150	50	80	-
HKS-12x150x50x100	150	50	100	-
HKS-12x180x50x50	180	50	50	-
HKS-12x180x50x60	180	50	60	-
HKS-12x180x50x80	180	50	80	-
HKS-12x180x50x100	180	50	100	-
HKS-12x200x50x50	200	50	50	-
HKS-12x200x50x80	200	50	80	-
HKS-12x220x50x50	220	50	50	-
HKS-12x220x50x60	220	50	60	-
HKS-12x220x50x80	220	50	80	-
HKS-12x260x50x60	260	50	60	-
HKS-12x450x40x80	450	40	80	-

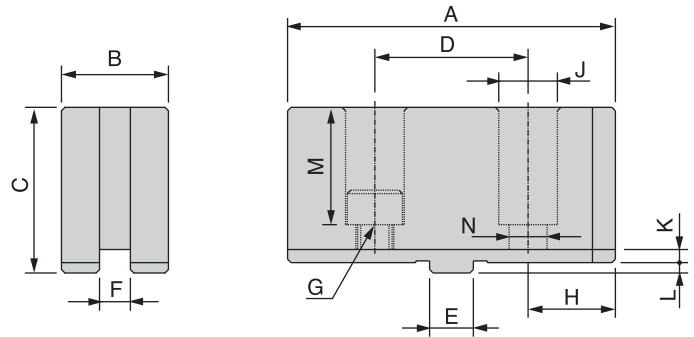
15" 油壓生爪尺寸表 Spec. table

規格 Spec.	長 h-1	寬 h-2	高 h-3	重量 (KGS) Weight
HKS-15x165x62x62	165	62	62	-
HKS-15x165x62x70	165	62	70	-
HKS-15x165x62x80	165	62	80	-
HKS-15x165x62x100	165	62	100	-
HKS-15x165x62x120	165	62	120	-
HKS-15x165x62x150	165	62	150	-
HKS-15x165x62x180	165	62	180	-
HKS-15x165x62x200	165	62	200	-
HKS-15x200x62x70	200	62	70	-
HKS-15x200x62x100	200	62	100	-
HKS-15x250x62x70	250	62	70	-

- 材質為：中碳鋼
- 特殊規格尺寸可訂作
- 訂購前請註明角度
- 120° 平 標準型
- 120° 尖 特殊另外加價
- 60° 尖 特殊另外加價
- Material: Carbon steel
- Special specification is optional
- Before ordering, please inform the angle
- 120° flat, standard
- 120° sharp, special specification is price optional
- 60° sharp, special specification is price optional



SKS 強力生爪 SKS POWER PRESSURE SOFT JAW



特點 Feature

- 適用於強力三爪夾頭上，尺寸是國際規格，並有高可塑性
- 材質 S50C，不經熱處理，無硬度，可以修整成各種形狀尺寸來夾持工件

- Is suitable on the force universal chuck cartridge, the size is the international specification, and has the high plasticity.
- Material S50C, without heat treatment, no hardness, into various shapes and sizes can be trimmed to clamp workpiece.

規格 Spec.	A	B	C	D	E	F	G	H	J	K	L	M	N	重量 (KGS) Weight
SKS-6	73	26	37	38.1	12.68	7.94	M8x1.25P	17.45	14	3.5	3	25	9	1.3
SKS-7	95	31	48	44.4	12.68	7.94	M10x1.5P	23.5	17	3.8	3	34	11	2.6
SKS-9	110	37		54	19.03	12.7	M12x1.75P	28	19	4.2	3	34	13	3.6
SKS-12	125	42	54	63.5	19.03	12.7	M12x1.75P	30.75	19	4.2	3	38	13	5.5

6" 強力生爪尺寸表 Spec. table

規格 Spec.	長 A	寬 B	高 C	重量 (KGS) Weight
SKS-6-73-25-37H	73	25	37	-
SKS-6-73-25-50H	73	25	50	-
SKS-6-73-25-60H	73	25	60	-
SKS-6-73-25-70H	73	25	70	-
SKS-6-73-25-80H	73	25	80	-
SKS-6-73-25-90H	73	25	90	-
SKS-6-73-25-100H	73	25	100	-
SKS-6-85-32-32H	85	32	32	-

7" 強力生爪尺寸表 Spec. table

規格 Spec.	長 A	寬 B	高 C	重量 (KGS) Weight
SKS-7-95-31-48H	95	31	48	-
SKS-7-95-31-60H	95	31	60	-
SKS-7-95-31-70H	95	31	70	-
SKS-7-95-31-80H	95	31	80	-
SKS-7-95-31-90H	95	31	90	-
SKS-7-95-31-100H	95	31	100	-
SKS-7-95-31-120H	95	31	120	-
SKS-7-95-32-32H	95	32	32	-
SKS-7-95-50-56H	95	50	56	-
SKS-7-150-31-50H	150	31	50	-
SKS-7-180-31-50H	180	31	50	-

9" 強力生爪尺寸表 Spec. table

規格 Spec.	長 A	寬 B	高 C	重量 (KGS) Weight
SKS-9-105-32-32H	105	32	32	-
SKS-9-105-32-32H-60	105	32	32	-
SKS-9-110-37-48H	110	37	48	-
SKS-9-110-37-48H-120	110	37	48	-
SKS-9-110-37-60H	110	37	60	-
SKS-9-110-37-70H	110	37	70	-
SKS-9-110-37-80H	110	37	80	-
SKS-9-110-37-100H	110	37	100	-
SKS-9-110-37-120H	110	37	120	-
SKS-9-110-37-130H	110	37	130	-
SKS-9-110-37-150H	110	37	150	-
SKS-9-110-37-180H	110	37	180	-
SKS-9-110-37-200H	110	37	200	-
SKS-9-110-54-56H	110	54	56	-
SKS-9-150-37-50H	150	37	50	-
SKS-9-150-37-60H	150	37	60	-
SKS-9-150-37-80H	150	37	80	-
SKS-9-180-37-60H	180	37	60	-
SKS-9-200-37-50H	200	37	50	-
SKS-9-200-37-60H	200	37	60	-
SKS-9-200-37-80H	200	37	80	-

12" 強力生爪尺寸表 Spec. table

規格 Spec.	長 A	寬 B	高 C	重量 (KGS) Weight
SKS-12-125-40-54H	125	40	54	-
SKS-12-125-40-70H	125	40	70	-
SKS-12-125-40-80H	125	40	80	-
SKS-12-125-40-90H	125	40	90	-
SKS-12-125-40-100H	125	40	100	-
SKS-12-125-40-120H	125	40	120	-
SKS-12-125-40-150H	125	40	150	-
SKS-12-125-40-180H	125	40	180	-
SKS-12-125-40-200H	125	40	200	-
SKS-12-180-40-60H	180	40	60	-
SKS-12-200-40-60H	200	40	60	-
SKS-12-230-40-60H	230	40	60	-
SKS-12-250-50-60H	250	50	60	-

15" 強力生爪尺寸表 Spec. table

規格 Spec.	長 A	寬 B	高 C	重量 (KGS) Weight
SKS-15-160-50-70H	160	50	70	-
SKS-15-160-50-100H	160	50	100	-
SKS-15-160-50-120H	160	50	120	-
SKS-15-160-50-150H	160	50	150	-

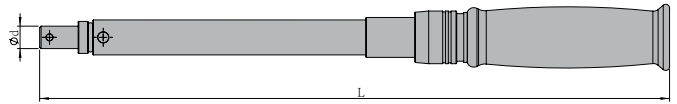
- SKS-7 與 SKS-8 共用 SKS-7 and SKS-8 altogether use.
- SKS-9 與 SKS-10 共用 SKS-9 and SKS-10 altogether use.



LM-TW 扭力扳手

LM-TW TORQUE WRENCH

NEW



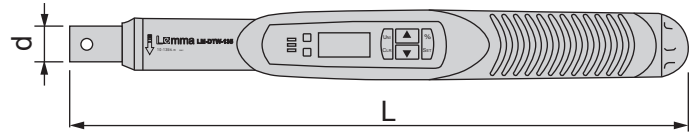
規格 Spec.	L	d	扭力值 (N.m) Torque	重量 (KGS) Weight
LM-TW-25	240	16	5~25	
LM-TW-110	350		10~110	
LM-TW-210	435		42~210	

範例 Example

警示聲響「**咔嚓**」即表示已達鎖固扭力，以避免施力過度。

扭力值：5~210 Nm





範例 Example



特點 Feature

- 特殊 $\phi 16$ 圓頭型設計
- 當施力達到目標扭力值時，紅色及綠色 LED 燈會同時亮起，並發出長響聲，來提醒使用者，以免超過扭力值而造成物件損壞
- 操作方便

- Special $\phi 16$ round head design.
- When application of force achieve object torsion value, red and green LED will light at the same time, and emit long bip sound, reminds the user, in order to avoid surpasses the torsion value to create the thing damage.
- Convenient to operate.

規格 Spec.	L	d	扭力值 (N.m) Torque	重量 (KGS) Weight
LM-DTW-135	360	16	10-135	1.56
LM-DTW-200	530		20-200	1.96
LM-DTW-340	740		34-340	2.34

範例 Example

螢幕顯示 & 功能選項
Screen demonstration & Function demonstration

$\phi 16$ 模組化：

可有效更換多樣扳手樣式

$\phi 16$ Modularity: May replace effectively diverse wrench type.

手把
Handle

電池室後蓋
Battery room top plate

- ▶ 本產品不包含電池
Non inclusive battery
- ▶ 電池數量：6 顆
Number of battery: 6pcs
- ▶ 電池規格 Battery specification:
台灣 -4 號電池 / 大陸 -7 號電池
Taiwan - No.4 battery/China - No.7 battery





























直徑：10.5mm
Diameter: 10.5mm



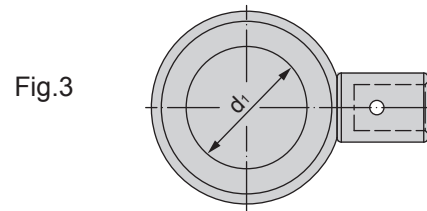
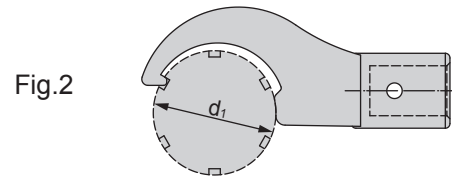
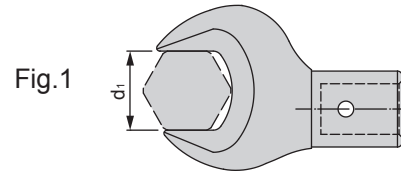
• 長度單位 Unit of Length (mm)

螺帽扳手 Nut Spanner

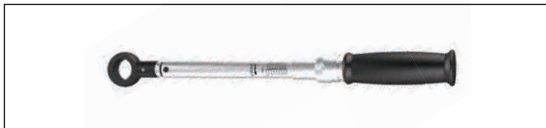
圖形 Form	規格 Spec.	扭力值 Torque	
		N.m	ft-lbs
	SKS6-LH	25	18
	SKS10-LH	45	33
	SKS16-LH	70	51
	SKS25-LH	100	73
	SKS6W-TDQ	25	18
	SKS10W-TDQ	45	33
	SKS16W-TDQ	70	51
	SKS25W-TDQ	100	73
	MLC20-LH	60	45
	MLC32-LH	80	60
	MLC42-LH	110	80
	EOC25-LH	200	147

圖形 Form	規格 Spec.	扭力值 Torque	
		N.m	ft-lbs
	ER11M-LH	20	14
	ER16M-LH	30	21
	ER20M-LH	40	24
	ER25M-LH	60	29
	ER16A-LH	40	30
	ER20A-LH	60	44
	ER25-UM、KM-LH/RD	80	59
	ER32-UM、KM-LH/RD	170	125
	ER40-UM、KM-LH/RD	130	95
	ER11W-TDQ	20	13
	ER16W-TDQ	68	50
	ER20W-TDQ	102	75
	ER25W-TDQ	80	59
	ER32W-TDQ	170	125

• 長度單位 Unit of Length (mm)



範例 Example

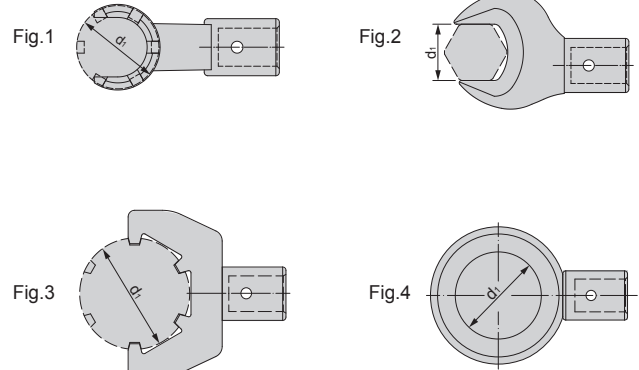


特點 Feature

- 搭配扭力扳手使用
- 參考規格，設定標準螺帽扭力值
- 預先設定好扭力值，可以預防加工時掉落，鎖緊後不容易鬆脫，也不會使筒夾彈性疲乏損壞

- Please use it with torque spanner.
- Set standard value for nut clamping torque, please see the type as below for your reference.
- Due to setting power in advance, it can prevent tool dropping when processing. Not easy to loosen for tightness and make the collets elastic fatigue.

規格 Spec.	d ₁	扭力值 Torque		配合螺帽 Nut	Fig.	重量 (KGS) Weight
		N.m	ft-lbs			
SKS6-LH	18	25	18	SKS6-NUT	1	0.08
SKS10-LH	30	45	33	SKS10-NUT	2	0.16
SKS16-LH	40	70	51	SKS16-NUT	2	0.18
SKS25-LH	55	100	73	SKS25-NUT	2	0.20
SKS6W-TDQ	18	25	18	SKS6	3	0.16
SKS10W-TDQ	30	45	33	SKS10	3	0.26
SKS16W-TDQ	40	70	51	SKS16	3	0.30
SKS25W-TDQ	55	100	73	SKS25	3	0.38
MLC20-LH	46	60	45	MLC20	2	-
MLC32-LH	64	80	60	MLC32	2	0.22
MLC42-LH	65	110	80	MLC42	2	0.22
EOC25-LH	60	200	147	EOC25	2	0.30



範例 Example

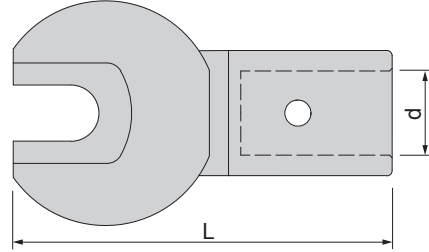


特點 Feature

- 搭配扭力扳手使用
- 參考規格，設定標準螺帽扭力值
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- Please use it with torque spanner.
- Set standard value for nut clamping torque, please see the type as below for your reference.
- Due to presetting torque value, it can prevent tool dropping when processing. Not easy to loosen for tightness and make the collets elastic fatigue.

規格 Spec.	d ₁	扭力值 Torque		配合螺帽 Nut	Fig.	重量 (KGS) Weight
		N.m	ft-lbs			
ER11M-LH	16	20	14	ER11M	1	0.09
ER16M-LH	22	30	21	ER16M	1	0.10
ER20M-LH	28	40	24	ER20M	1	0.10
ER25M-LH	35	60	29	ER25M	1	0.10
ER16A-LH	25	40	30	ER16A	2	0.14
ER20A-LH	30	60	44	ER20A	2	0.20
ER25-UM、KM-LH/RD	42	80	59	ER25-UM/KM/RD	3	0.25
ER32-UM、KM-LH/RD	50	170	125	ER32-UM/KM/RD	3	0.30
ER40-UM、KM-LH/RD	63	130	95	ER40-UM/KM/RD	3	0.40
ER11W-TDQ	18	20	13	ER11	3	0.16
ER16W-TDQ	30	68	50	ER16	4	0.26
ER20W-TDQ	34	102	75	ER20	4	0.26
ER25W-TDQ	42	80	59	ER25	4	0.30
ER32W-TDQ	50	170	125	ER32	4	0.34



特點 Feature

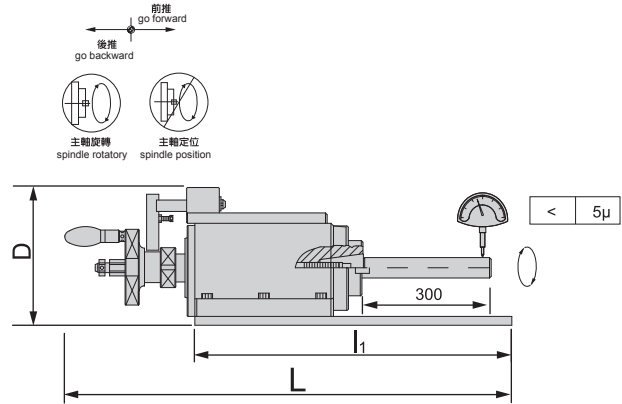
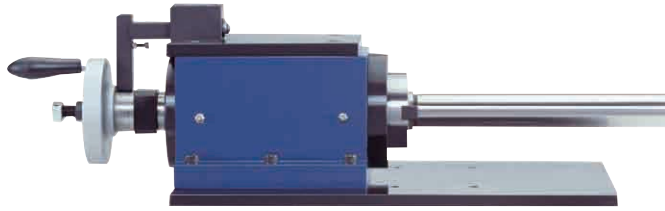
- 可施予正確的力距，鎖固拉頭

- Apply appropriate torque to lock the pull stud.

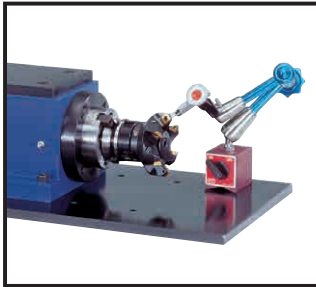
規格 Spec.	L	d	配合拉頭 Pull Studs	重量 (KGS) Weight
PS-BT30-LH	58	16	BT30 拉頭	0.14
PS-BT40-LH	72	16	BT40 拉頭	0.20
PS-BT50-LH	80	16	BT50 拉頭	-

範例 Example



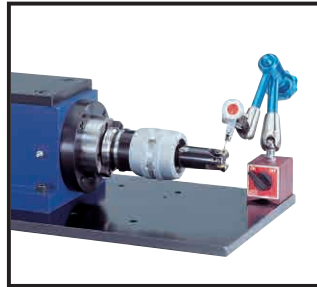


範例 Example



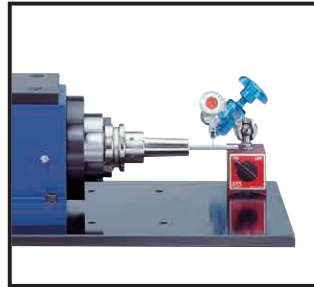
校正刀片公差

Correction insert tolerances



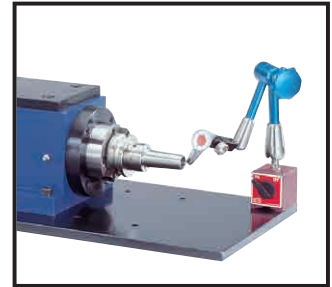
校正刀片公差

Correction insert tolerances



校正筒夾公差

Correction collet tolerances



校正刀桿公差

Correction shank tolerances

操作注意事項 Operation Instruction

- 檢查校正桿是否標準，轉動主軸是否清潔
- 主軸上固定鍵，定位並向右固定轉軸
- 螺桿上鎖校正，(約 15m/m 牙深) 上緊固定螺帽密合
- 主軸上固定鍵向左撥開，即可轉動主軸
- 將量錶置於檢驗位置上，即可檢驗及校正
- 量錶量測時，請確實掌握測試桿最高點為探測接觸點

- Check and ensure the aligner bar is standard. Turn the spindle and see if it is clean.
- Position the fixing key on spindle, turn right and fix the spindle.
- Lock and regulate the screw, (depth about 15m/m) locking nut.
- Turn the fixing key to the left. Turn the spindle.
- Place the scale at the testing position. Test and calibrate.
- When measuring with the scale, be sure to grasp the highest point of the test rod probe contact point.

注意事項 Notice

- 校正座必須置於水平固定架上
- 放置清潔，室溫保持 20° ± 10° 左右
- 禁止對校正座敲打或碰觸
- 隨時保持清潔及定期檢測、保養
- 將量錶置於檢驗位置上，即可檢驗及校正
- 量錶量測時，請確實掌握測試桿最高點為探測接觸點

- Calibration seat must be placed on a horizontal bracket.
- Place purifying, the temperature is maintained around 20° ± 10°.
- Do not knock or touch the calibration seat.
- Kept clean and regular testing, maintenance.
- The scale is placed on the testing position. Test and calibrate.
- Scale measurements, be sure to grasp the highest point of the test rod probe contact point.

規格 Spec.	斜度 Taper	L	l ₁	D	螺桿尺寸 Rod Screw	重量 (KGS) Weight
CHW-SK30	NT30/BT30	650	500	210	M12x1.75P	50.0
CHW-SK40	NT40/BT40	680	500	240	M16x2.0P	70.0
CHW-SK50	NT50/BT50	900	700	260	M24x2.0P	110.0

* 主軸測試棒另外訂購 Spindle test bar is ordered separately.



範例 Example



A Z軸升降手輪 Shifting Structure of Z-axis **B** X軸位移手輪 Shifting Structure of X-axis

透過氣壓元件來進行量測支架在 X 軸及 Z 軸 上的大幅度移動

Use pneumatic components to measure the large movement of the bracket on the X and Z axes.

C 快送機構 Fast Moving Device

透過氣壓元件來進行量測支架在 X 軸及 Z 軸 上的大幅度移動

Use pneumatic components to measure the large movement of the bracket on the X and Z axes.

D 均採用高精度線軌、雙滑塊 結構 All adopt high-precision linear rail and double slider structure

X 軸及 Z 軸 均採用高精度線軌、雙滑塊 結構，確保長久量測上的穩定性

Both X-axis and Z-axis adopt high-precision linear rail and double-slider structure to ensure long-term measurement stability.

E 影像量測機構 Projection Measuring Structure

配備載遠新鏡頭及高解析度相機

Equipped with Zaiyuan's new lens and high-resolution camera.

F 螢幕 Screen

影像量測系統可進行刀具重要尺寸之測量，並具備將量測得到之刀長數進行整理輸出 CNC 刀長補正程式碼

The image measurement system can measure the important dimensions of the tool, and can sort the measured tool length and output the CNC tool length compensation code.

規格 Spec.	LM-OM-PHC3125R	機台重量 Weight of Machine	110 Kg
量測範圍 Range of Measuring	直徑Diameter(X) : Ø125mm 高度Height(Z) : 70~300mm	電源 Power	220V 50-60Hz 15A
機台外型尺寸 Size of Machine	長(L)x 寬(W)x 高(H) 790x450x810mm	工具櫃尺寸 (選配) Size of Tool Cabinet (Optional)	50/60Hz±5%
量測精度 Accuracy of Measuring	0.005mm	工具櫃重量 Weight of Tool Cabinet	85 Kg

標配 Standard

圖示 Image	名稱 Description	規格 Spec.
	BT50測試棒 BT50 Testing Bar	BT50-TS170L
	主軸清潔棒 Spindle Cleaner Bar	W50
	六角扳手組 Hex Wrench set	LM-PHC-0012

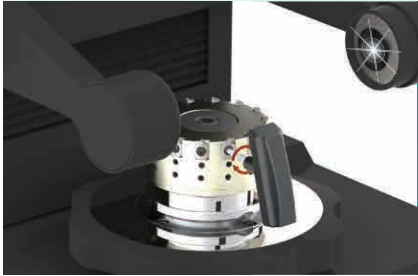
選配 Optional Accessories

圖示 Image	名稱 Description	規格 Spec.
	工具櫃 Tool Cabinet	LM-PHC-0011
	主軸轉換套 Spindle Adapter	BT50 - BT40
		BT50 - BT30

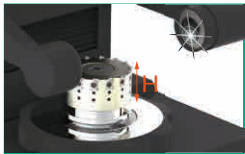
• 長度單位 Unit of Length (mm)

量測方式 Measurement method

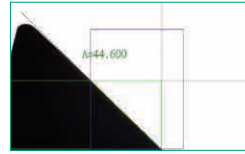
簡化校刀時間、降低生產成本
Simplify the adjusting time of cutting tool, reduce the production cost.



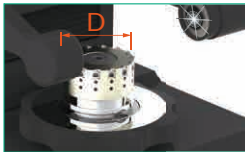
可在機台的外側進行量測，當要調整刀具刃高時，可直接進行調整及刀片鎖固螺絲的鎖固，不會有干涉產生，使調整效率更加快速
There's no interference when you adjust the height of cutter because you can adjust and lock the insert screw directly, measure it from the outside of machine. It is able to raise the efficiency of measurement.



刃高校正
Insert height correction



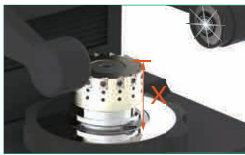
角度量測
Angle Measuring



刀刃外徑校正
Blade outer diameter correction

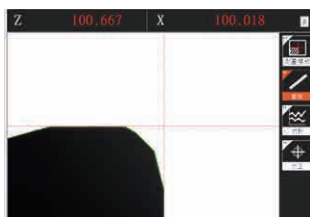


圓角量測
Radius Measuring



刀長補正
Tool Length Compensation

軟體主要功能及特點 Main functions and features of the software



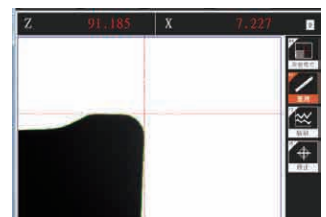
具動態十字線，可精準定位刀尖位置
With dynamic crosshairs, the position of the tool tip can be accurately positioned



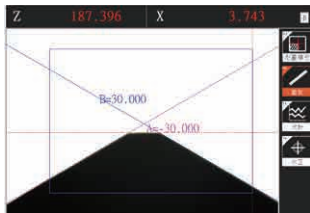
可以手動自由選取量測範圍
The measurement range can be freely selected manually



可選多種測量模組
Optional multiple measurement modules



刀長及刀徑之測量
Measurement of cutter length and diameter



刀具角度之測量
Tool angle measurement



刀具圓角之測量
Tool fillet measurement

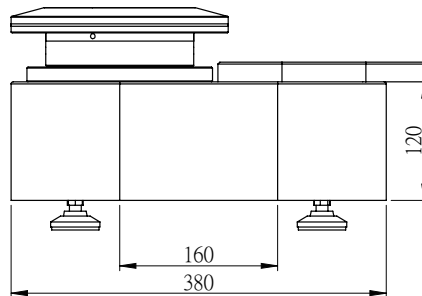


開啟正光，可檢視刀具刀口表面實際狀態
Turn on the positive light, you can view the actual state of the cutter edge surface



整理測量完畢刀具之刀長並輸出 CNC 刀長補正式碼
Sort out the tool length of the tool after measurement and output the CNC tool length compensate code

• 長度單位 Unit of Length (mm)



特點 Feature

- 安裝千分錶可針對刀具做偏擺的檢測
- 配合高度規可進行刀具之刀長量測
- 便利針對密齒刀、搪刀等刀具做調整設定
- 氣動結構增加真空吸附功能，改善刀桿定位重複精度

- Install a dial indicator to detect the deflection of the cutting tool.
- With height gauge, the length of cutting tool can be measured.
- Conveniently adjust settings for close-tooth cutters, boring cutters and other tools.
- The pneumatic structure increases the vacuum adsorption function to improve the positioning repeatability of the tool bar.

規格 Spec.	量測範圍 Range of Measuring	機台外型尺寸 Size of Machine	量測精度 Accuracy of Measuring	機台重量 Weight of Machine	氣壓條件 Atmospheric conditions
LM-CM-PHC3160-BT30	直徑Diameter(X) : Ø160mm 高度Height(Z) : 300 mm	長(L)x 寬(W)x 高(H) =424.5x 220 x 225.25 mm	0.003mm	37.5 Kg	0.4~0.6 Mpa
LM-CM-PHC3160-BT40					
LM-CM-PHC3160-BT50					

標配 Standard

圖示 Image	名稱 Name	規格 Spec.
	主軸清潔棒 Spindle Cleaner Bar	W30、W40、 W50

實際應用 Application



選配 Option

圖示 Image	名稱 Name	規格 Spec.
	測試棒 Testing Bar	BT30-TS250L BT40-TS300L BT50-TS300L
	千分量錶 Dial Gauge	MITUTOYO-2109S-10
	萬向磁性錶座 Universal Arm Magnetic Base	LM-M120
	高度規 Height Gauge	MITUTOYO-570-312
	高度規比測台立柱 Comparator Stand Column	LM-MP25-350-C

• 長度單位 Unit of Length (mm)



LM-DH3300R



LM-DH4400R



LM-DH6600R

操作注意事項 Operation Instruction

- 全系列立柱 (Z 軸) 採用超耐磨鋁合金，經特殊處理不易變形，搭配精密線性滑軌，操作簡便、精度更佳
- 全系列立柱 (Z 軸) 配備快速移動裝置，便捷性更加提升
- 全系列 X 軸、Z 軸皆裝置精密光學尺，螢幕顯示精確、易讀

- Made of super wear resistant aluminum alloy, Z-axis column is specially treated and free of deformation. Equipped with high precision linear scale, the column is easy to operate with higher accuracy.
- Z-axis column is equipped with rapid traverse for higher moving efficiency.
- Both X-axis and Z-axis are equipped with high precision D.R.O. Values shown on the monitor are more accurate and easy to read.

規格 Spec.	量測範圍 Measurement range		數顯解析度 Resolution	儀器外型尺寸 Machine size (LxWxH)	工具櫃尺寸 (選配) Cabinet size (Optional)	工具櫃重量 Cabinet weight	電源 Power supply	儀器重量 (KGS) Weight
	直徑 D	高度 L						
LM-DH3300R	Ø300	30~300	0.005	650x320x730	700x570x800	60	AC 110V/220V 50Hz/60Hz	49
LM-DH4400R	Ø400	30~400	0.005	760x360x860	700x570x800	60		75
LM-DH6600R	Ø600	30~600	0.005	860x360x1060	800x570x650	60		85

標配 Standard

圖示 Fig.	圖示 Fig.	圖示 Fig.	圖示 Fig.
名稱 Name 測試棒 BT50 (Ø40mm · 長 200mm) X1 支 Test bar BT50 (Ø40mm · length 200mm) *1 pc	名稱 Name 百分錶 X2 只 Dial indicator *2pcs	名稱 Name 六角扳手 X1 組 Hex wrench *1set	名稱 Name 光學尺 (X 軸、Y 軸) 各一組 linear scale (X axis & Y axis 1 set of each)

選配 Option

圖示 Fig.	圖示 Fig.
名稱 Name 工具櫃 Selective accessories Tool cabinet	名稱 Name #50~#30 轉換套筒 #50~#30 convert sleeve



LM-DH4400-C



LM-DH6600-C

規格 Spec.	工具櫃適用機型 Cabinet For Type	尺寸 (長 × 寬 × 高) Size(LxWxH)	重量 (KGS) Weight
LM-DH4400-C	LM-DH3300、LM-DH4400	700x570x800	60.0
LM-DH6600-C	LM-DH6600	800x570x650	60.0

• 長度單位 Unit of Length (mm)

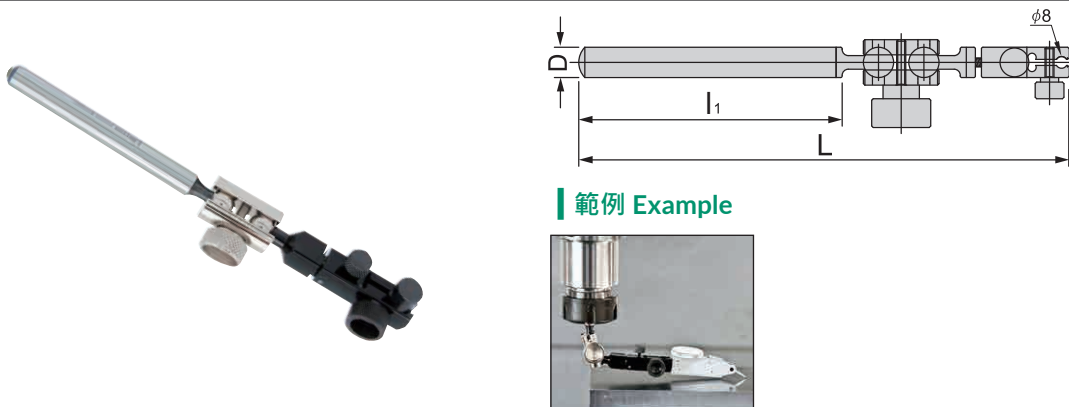


特點 Feature

- 萬向曲臂設計、方向可任意調整
- 槓桿旋臂上附有微調裝置 :Ø8mm 鳩尾槽座
- 適合各式樣之分釐錶、槓桿錶之夾持

- Indicators can be set at any point on 360°, very quick and convenient in operation.
- On the release lever arm attaches the vernier instrument: Ø8mm dove tail trough seat.
- Suitable for clamping various kinds of dial indicator and lever indicator.

規格 Spec.	磁力 Holding Power	方式 Manner	臂長 Arm Length	磁座尺寸 Base Dimension (mm)			孔徑 Tapped Hold	重量 (KGS) Weight
				長 L	寬 W	高 H		
LM-020-A	20kg	-	-	35	30	35	M8x1.25P	0.2
LM-080-A	80kg	-	-	60	50	55	M8x1.25P	1.05
LM-100-A	100kg	-	-	75	50	55	M8x1.25P	1.15
LM-120-A	120kg	-	-	85	50	55	M8x1.25P	1.32
LM-B080	80kg	-	-	60	50	55	-	1.60
LM-M020	20kg	機械式 Mechanical	185mm	35	30	35	M8x1.25P	0.24
LM-M080	80kg	機械式 Mechanical	340mm	60	50	55	-	1.50
LM-M120	120kg	機械式 Mechanical	340mm	85	50	55	-	2.20

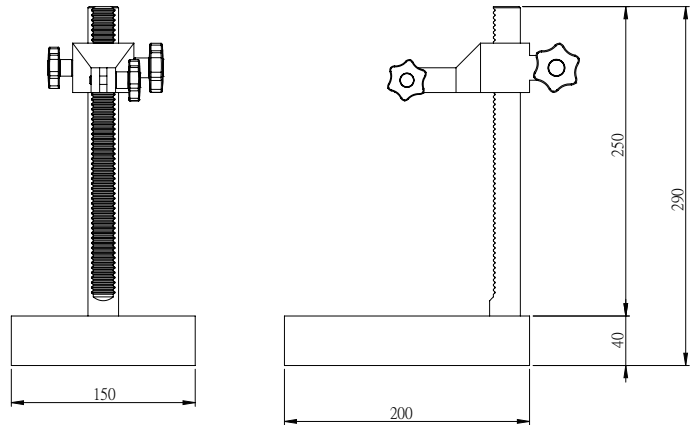
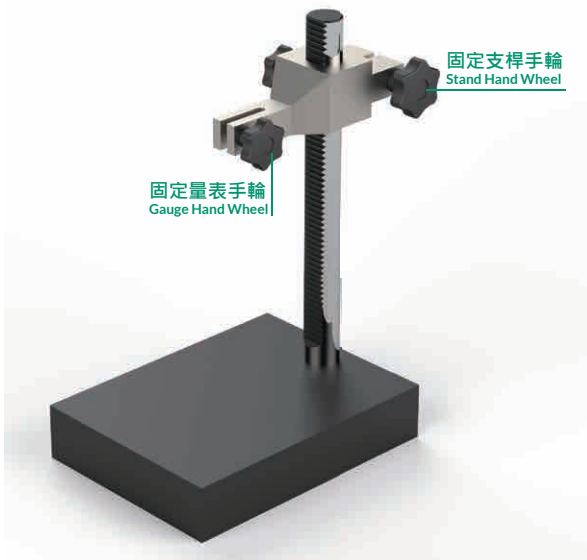


範例 Example



規格 Spec.	L	l ₁	D	重量 (KGS) Weight
LM-AS-1060	180	90	10	0.20

• 長度單位 Unit of Length (mm)



特點 Feature

- 精度穩定，不會受潮生鏽，使用維護都方便
- 耐酸鹼，耐腐蝕，抗磁，線脹系數小，受溫度影響小
- 工作面受碰撞或滑傷後只會產生凹坑，不會產生凸紋，毛刺對測量精度無影響
- 立柱採用不鏽鋼材料，防鏽抗腐蝕
- 立柱排齒結構設計，使量表不會快速降落造成損壞

- It's easy to use and maintain that it wouldn't be rusty. The accuracy is stable.
- Acid-resistant, corrosion-resistant, anti-magnetic, small coefficient of thermal expansion, small temperature coefficient.
- Only pits will be created after a collision or slip on the work surface. There wouldn't be deformation and burrs to affect the measuring accuracy.
- The column is made by stainless steel to avoid corrosion and rust.
- The rack design of column can avoid the damage from gauge caused by rapid fall.

● 附 M12-45L 六角螺絲

規格 Spec.	平台尺寸 mm	桿高 mm	臂長 mm	選配		重量 (KGS) Weight
				千分錶	百分錶	
LM-MP25-250	150*200*40	250	90	千分錶	百分錶	6.2
LM-MP25-250M	200*300*40	250	90			-





工件定位器 WORK STOP TOOL



範例 Example



規格 Spec.	重量 (KGS) Weight
MAS-160B	0.85

※ 萬向 360°大範圍使用 Universal 360° wide range of use



噴霧式切削冷卻器 MIST COOLANT



範例 Example



規格 Spec.	長度 Length	重量 (KGS) Weight
MCS-B	500m/m	0.72

• 長度單位 Unit of Length (mm)

AID



銑刀刀柄座 TOOLING SHEATH

範例 Example



規格 Spec.	重量 (KGS) Weight
TC-30S	0.07
TC-40S	0.07
TC-50S	0.10
TC-HSK63S	0.04



刀具管理車 TOOL CARRIAGE



規格 Spec.	刀柄座數量 Qty	重量 (KGS) Weight
TC-30	32	40
TC-40	28	40
TC-50	20	40
TC-HSK63	24	40
TC-HSK100	19	

※ 不含展示刀具 Does not include display tools
 ※ 組裝費外加

• 長度單位 Unit of Length (mm)

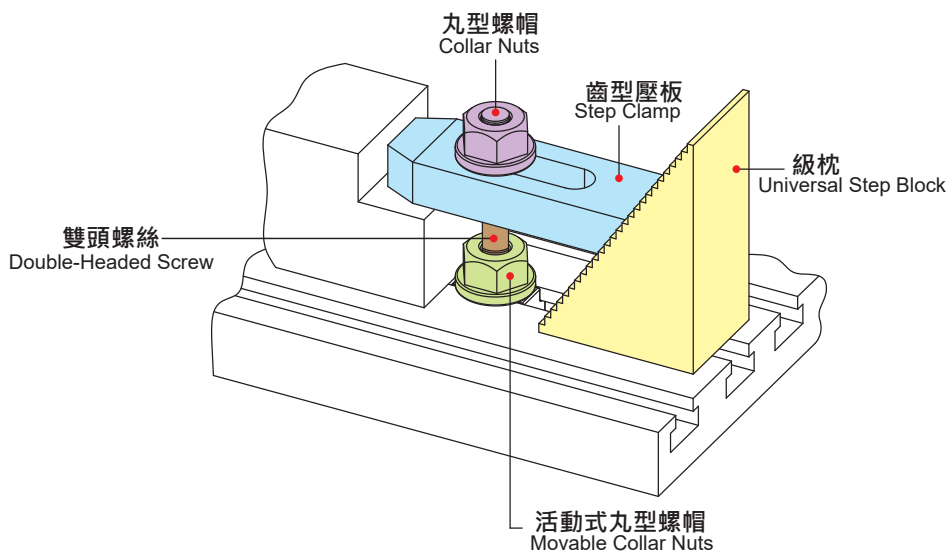
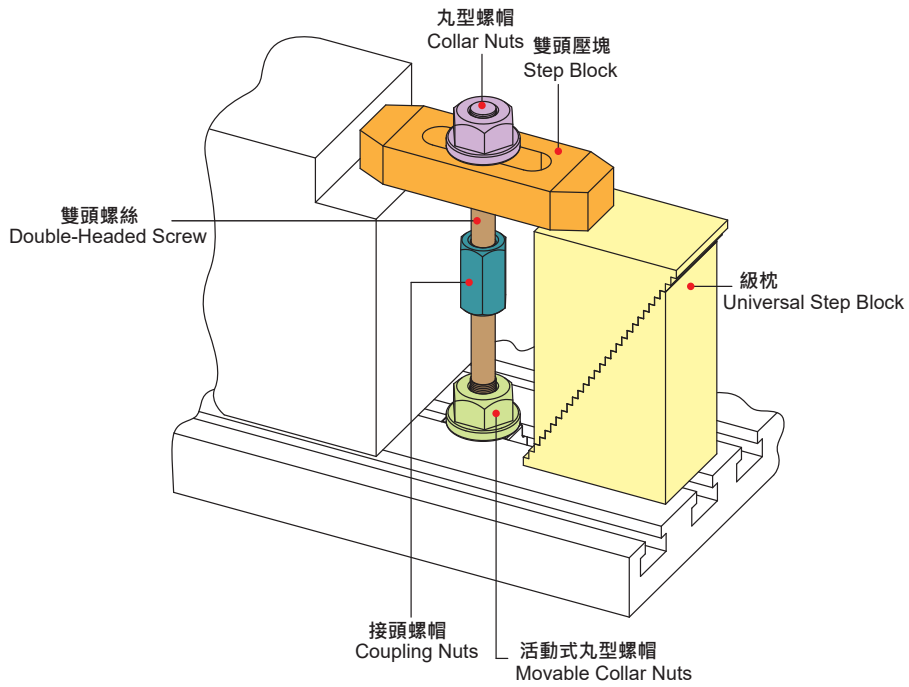
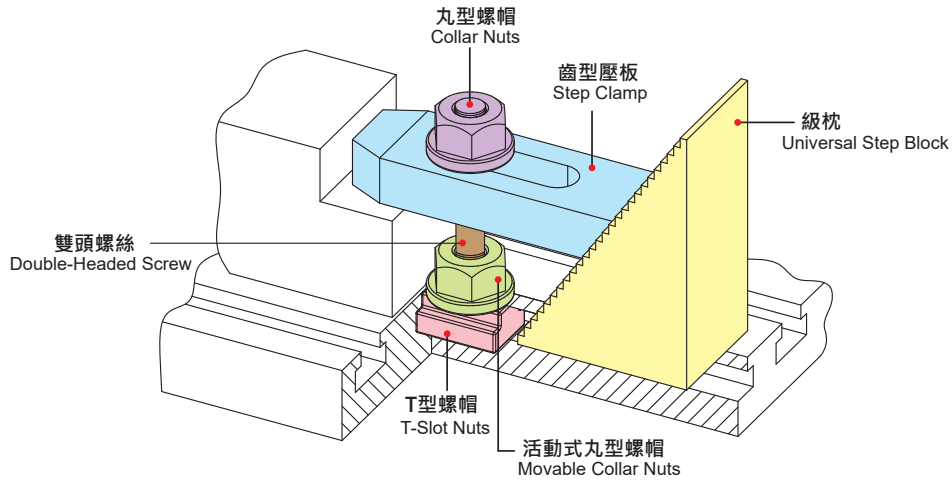


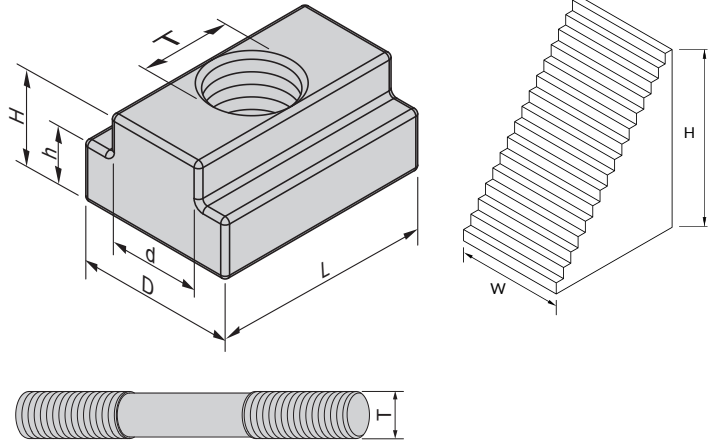
範例 Example



虎鉗平行板
VISE PARALLEL

規格 Spec.	厚 x 寬 x 長 x 數量	重量 (KGS) Weight	規格 Spec.	厚 x 寬 x 長 x 數量	重量 (KGS) Weight
GP-18	5 x 16 x 100 x 2	10.0	GP-150	8.5 x 14 x 150 x 2	-
	6 x 18 x 100 x 2			8.5 x 16 x 150 x 2	
	8 x 24 x 100 x 2			8.5 x 20 x 150 x 2	
	10 x 30 x 100 x 2			8.5 x 24 x 150 x 2	
	12 x 36 x 150 x 2			8.5 x 30 x 150 x 2	
	14 x 48 x 150 x 2			8.5 x 32 x 150 x 2	
	18 x 60 x 150 x 2			8.5 x 36 x 150 x 2	
	22 x 62 x 150 x 2			8.5 x 40 x 150 x 2	
	15 x 31 x 200 x 2			8.5 x 44 x 150 x 2	





內容物：

- 24 個雙頭螺絲：
- 英制螺絲桿規格長度有：3"、4"、5"、6"、7"、8" 各 4 支
- 公制螺絲桿規格長度有：75、100、125、150、175、200mm 各 4 支
- 6 個 T 型螺帽
- 6 個九型螺帽
- 4 個接頭螺帽
- 12 個級枕
- 6 個齒型壓板

Contents:

- 24 double-headed screws:
- spec. in inch: 3", 4", 5", 6", 7", 8" 4pcs of each.
- spec. in metric: 75, 100, 125, 150, 175, 200mm 4pcs of each.
- 6 T-shot nuts
- 6 Collar nuts
- 4 Coupling nuts
- 12 universal step block
- 6 step clamps

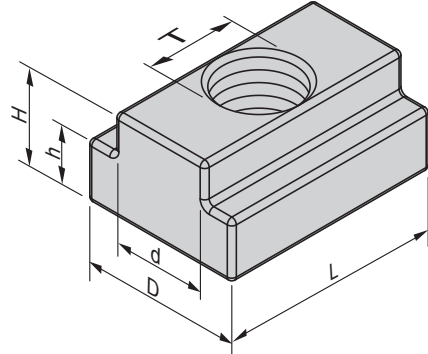
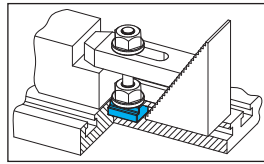
英制 (inch)

規格 Spec.	T	d	H	h	D	L	W	重量 (KGS) Weight
PK-103A	3/8"-16UNC	7/16"	1/2"	7/32"	11/16"	7/8"	1"	10.2
PK-103B	3/8"-16UNC	1/2"	1/2"	9/32"	7/8"	7/8"	1"	10.2
PK-104A	1/2"-13UNC	9/16"	5/8"	11/32"	7/8"	1"-1/8"	1"	12.36
PK-104B	1/2"-13UNC	5/8"	5/8"	11/32"	1"	1"-1/8"	1"	12.36
PK-105A	5/8"-11UNC	11/16"	3/4"	7/16"	1"-1/8"	1"-7/32"	1"-1/4"	12.46
PK-105B	5/8"-11UNC	3/4"	3/4"	15/32"	1"-1/4"	1"-7/32"	1"-1/4"	12.46
PK-206A	3/4"-10UNC	13/16"	1"	9/16"	1"-9/32"	1"-1/2"	1"-1/2"	18.20
PK-206B	3/4"-10UNC	7/8"	1"-1/8"	9/16"	1"-3/8"	1"-1/2"	1"-1/2"	18.20

公制 (mm)

規格 Spec.	T	d	H	h	D	L	W	重量 (KGS) Weight
CK-10	M10 x 1.5P	11.5	12	6.8	17.5	22	25	10.2
CK-12A	M12 x 1.75P	13.8	16	8	22	28	25	10.5
CK-12B	M12 x 1.75P	13.8	16	8	22	28	32	11.4
CK-16A	M16 x 2.0P	17.5	19	11	28	31	25	13.4
CK-16B	M16 x 2.0P	17.5	19	11	28	31	32	14.3
CK-20	M20 x 2.5P	21.7	28	14	35	38	38	29.0
CK-24	M24 x 3.0P	27.5	36	18	44	49	50	63.0

• 長度單位 Unit of Length (mm)



特點 Feature

- 可配合公、英制 T 型槽使用

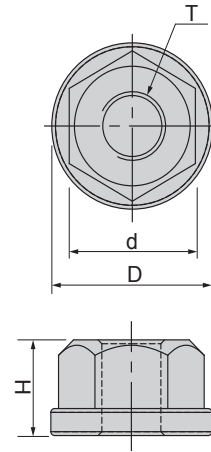
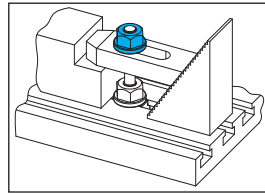
-With the mm、inch T-slots to use.

英制 (inch)

規格 Spec.	d	H	h	D	L	T	重量 (KGS) Weight
3/8-T-S	7/16"	1/2"	7/32"	11/16"	7/8"	3/8"-16	0.02
3/8-T-M	1/2"	1/2"	9/32"	7/8"	7/8"	3/8"-16	0.03
3/8-T-L	9/16"	5/8"	5/16"	7/8"	1"-1/8"	3/8"-16	0.05
1/2-T-S	9/16"	5/8"	5/16"	7/8"	1"-1/8"	1/2"-12	0.05
1/2-T-M	5/8"	5/8"	5/16"	1"	1"-1/8"	1/2"-12	0.06
1/2-T-L	11/16"	3/4"	7/16"	1"-1/8"	1"-1/4"	1/2"-12	0.09
5/8-T-S	11/16"	3/4"	7/16"	1"-1/8"	1"-1/4"	5/8"-11	0.08
5/8-T-M	3/4"	3/4"	15/32"	1"-1/4"	1"-1/4"	5/8"-11	0.10
5/8-T-L	13/16"	1"	9/16"	1"-1/4"	1"-1/2"	5/8"-11	0.16
3/4-T-S	13/16"	1"	9/16"	1"-1/4"	1"-1/2"	3/4"-10	0.15
3/4-T-M	7/8"	1"-1/8"	9/16"	1"-3/8"	1"-3/4"	3/4"-10	0.18
3/4-T-L	1"	1"	5/8"	1"-9/16"	1"-3/4"	3/4"-10	0.26

公制 (mm)

規格 Spec.	d	H	h	D	L	T	重量 (KGS) Weight
M8T	9.7	12	6	16	22	M8 x 1.25P	0.02
M10T	11.5	12	6.8	17.5	22	M10 x 1.5P	0.02
M12T-S	13.8	16	8	22	28	M12 x 1.75P	0.05
M12T-M	15.5	16	8	25	28	M12 x 1.75P	0.06
M16T	17.5	19	11	28	31	M16 x 2.0P	0.08
M20T	21.7	28	14	35	38	M20 x 2.5P	0.17
M24T	27.5	36	18	44	49	M24 x 3.0P	-



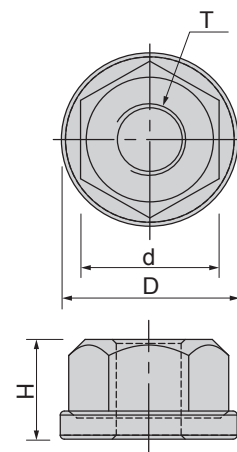
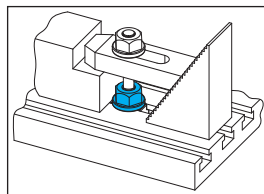
特點 Feature

- 可配合雙頭螺絲、壓板使用

- With the double-headed screw to use.

規格 Spec.	英制 (inch)				
	d	D	H	T	重量 (KGS) Weight
3/8-F	11/16"	7/8"	17/32"	3/8"-16	0.02
1/2-F	13/16"	1"-3/16"	11/16"	1/2"-12	0.04
5/8-F	1"-1/32"	1"-3/8"	13/16"	5/8"-11	0.08
3/4-F	1"-1/4"	1"-5/8"	1"	3/4"-10	0.16

規格 Spec.	公制 (mm)				
	d	D	H	T	重量 (KGS) Weight
M8-F	13	18	8	M8 x 1.25P	0.01
M10-F	17	22	13	M10 x 1.5P	0.02
M12-F	21	30	17	M12 x 1.75P	0.04
M16-F	26	35	22	M16 x 2.0P	0.07
M20-F	32	42	27	M20 x 2.5P	0.15
M24-F	41	50	32	M24 x 3.0P	0.29



特點 Feature

- 鎖上工件時底不卡死 · 不致工件物損壞

- When tighten the screw with workpiece, it won't cause jammed shut on the bottom to prevent the damage.

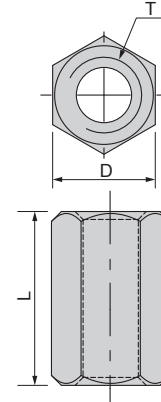
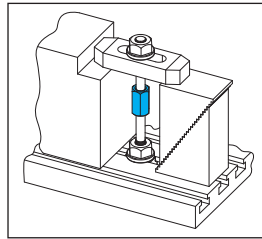
規格 Spec.	英制 (inch)				
	d	D	H	T	重量 (KGS) Weight
1/2-R	13/16"	1"-1/8"	5/8"	1/2"-12	-
5/8-R	1"-1/32"	1"-3/8"	11/16"	5/8"-11	0.10
3/4-R	1"-1/4"	1"-5/8"	1"	3/4"-10	0.17

規格 Spec.	公制 (mm)				
	d	D	H	T	重量 (KGS) Weight
M16-R	26	35	23	M16 x 2.0P	-

• 長度單位 Unit of Length (mm)



接頭螺帽 COUPLING NUT



特點 Feature

- 可配合雙頭螺絲·延長或固定使用

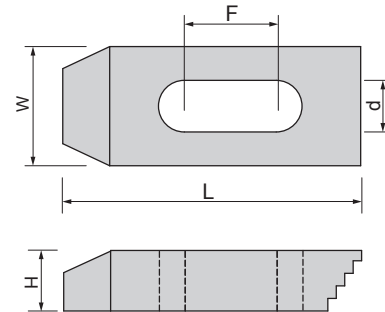
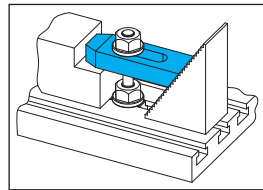
- With the double-headed screw, extended or fixed to use.

規格 Spec.	D	L	T	英制 (inch)	重量 (KGS) Weight
3/8-C	11/16"	1"	3/8"-16		-
1/2-C	13/16"	1"-1/4"	1/2"-12		0.07
5/8-C	1"-1/32"	1"-5/8"	5/8"-11		0.13
3/4-C	1"-1/4"	1"-7/8"	3/4"-10		0.23

規格 Spec.	D	L	T	公制 (mm)	重量 (KGS) Weight
M8-C	13	22	M8 x 1.25P		0.02
M10-C	17	25	M10 x 1.5P		-
M12-C	21	32	M12 x 1.75P		0.07
M16-C	26	40	M16 x 2.0P		0.12
M20-C	32	48	M20 x 2.5P		0.23
M24-C	41	63	M24 x 3.0P		-



齒型壓板 PLANE CLAMP



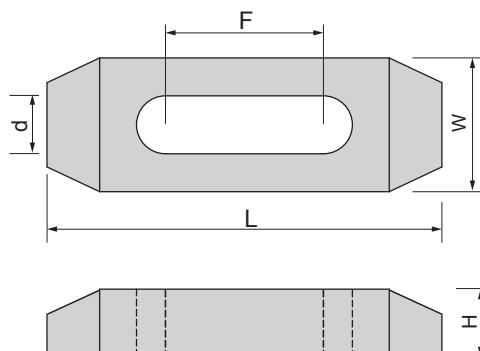
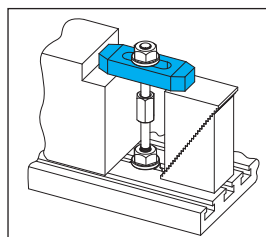
特點 Feature

- 可配合級枕使用·方便調整高低

- With the step blocks use, easy to adjust the height.

規格 Spec.	d	L	W	H	F	適用範圍 Range		重量 (KGS) Weight
						英制 (inch)	公制 (mm)	
SC-3/8-2-1/2	3/8"	2"-1/2"	1"	1/2"	3/4"	3/8"	M10	0.12
SC-3/8-4	3/8"	4"	1"	5/8"	1"-3/16"	3/8"	M10	0.23
SC-3/8-6	3/8"	6"	1"-1/8"	3/4"	2"-1/8"	3/8"	M10	0.50
SC-1/2-2-1/2	1/2"	2"-1/2"	1"-1/8"	1/2"	11/16"	1/2"	M12-M14	0.13
SC-1/2-4	1/2"	4"	1"-1/4"	3/4"	1"-7/32"	1/2"	M12-M14	0.32
SC-1/2-6	1/2"	6"	1"-1/4"	7/8"	2"-11/64"	1/2"	M12-M14	0.64
SC-5/8-2-1/2	5/8"	2"-1/2"	1"-1/4"	5/8"	9/16"	5/8"	M16	0.17
SC-5/8-4	5/8"	4"	1"-1/2"	3/4"	1"-3/16"	5/8"	M16	0.37
SC-5/8-6	5/8"	6"	1"-1/2"	7/8"	2"-1/4"	5/8"	M16	0.68
SC-3/4-4	3/4"	4"	1"-1/2"	3/4"	1"-3/16"	3/4"	M18-M20	0.35
SC-3/4-6	3/4"	6"	1"-1/2"	1"	1"-31/32"	3/4"	M18-M20	0.74
SC-3/4-8	3/4"	8"	1"-3/4"	1"-1/8"	2"-3/4"	3/4"	M18-M20	1.44

• 長度單位 Unit of Length (mm)



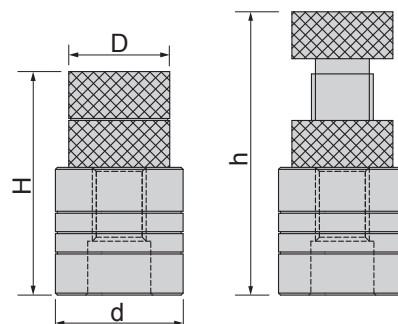
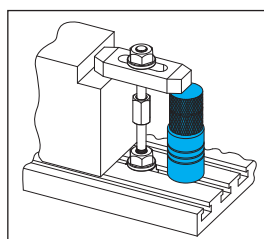
特點 Feature

- 可配合千斤頂使用 · 方便調整高低

- With the screw jack use, easy to adjust the height.

英制 (inch)

規格 Spec.	d	L	W	H	F	重量 (KGS) Weight
PC-15-2-1/2	15	2"-1/2"	30	13	16	0.25
PC-15-4	15	4"	32	19	31	0.67
PC-15-6	15	6"	32	22	55	1.2
PC-18-2-1/2	18	2"-1/2"	32	16	14	0.31
PC-18-4	18	4"	38	19	30	0.85
PC-18-6	18	6"	38	22	57	1.47
PC-21-4	21	4"	38	19	30	0.75
PC-21-6	21	6"	38	25	50	1.43
PC-21-8	21	8"	44.5	28.5	70	2.82
PC-26-6	26	6"	50	32	39	1.9
PC-26-8	26	8"	50	38	69	2.75
PC-26-10	26	10"	50	38	74	3.8



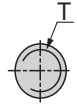
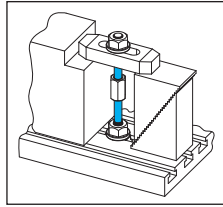
特點 Feature

- 可自由調整高低 · 承受重量

- Freely adjusting the level to withstand the weight.

規格 Spec.	H	D	d	使用範圍 Range (H~h)	重量 (KGS) Weight
S-70	56	25	32	56~75	0.30
S-150	102	40	50	102~160	1.40
S-250	142	45	55	142~235	3.60

• 長度單位 Unit of Length (mm)



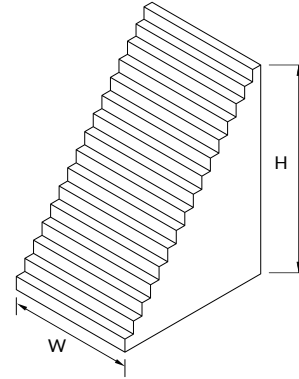
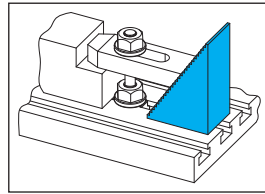
英制 (inch)

公制 (mm)

規格 Spec.	L	T	重量 (KGS) Weight
O-3/8-3	3"	3/8"-16	0.03
O-3/8-4	4"	3/8"-16	0.04
O-3/8-5	5"	3/8"-16	0.05
O-3/8-6	6"	3/8"-16	0.06
O-3/8-7	7"	3/8"-16	0.07
O-3/8-8	8"	3/8"-16	-
O-1/2-3	3"	1/2"-12	0.06
O-1/2-4	4"	1/2"-12	0.08
O-1/2-5	5"	1/2"-12	0.10
O-1/2-6	6"	1/2"-12	0.12
O-1/2-7	7"	1/2"-12	0.14
O-1/2-8	8"	1/2"-12	0.15
O-5/8-3	3"	5/8"-11	0.09
O-5/8-4	4"	5/8"-11	0.12
O-5/8-5	5"	5/8"-11	0.16
O-5/8-6	6"	5/8"-11	0.19
O-5/8-7	7"	5/8"-11	0.22
O-5/8-8	8"	5/8"-11	0.25
O-5/8-9	9"	5/8"-11	0.28
O-5/8-10	10"	5/8"-11	0.32
O-5/8-12	12"	5/8"-11	0.38
O-5/8-14	14"	5/8"-11	0.52
O-5/8-16	16"	5/8"-11	0.56
O-5/8-18	18"	5/8"-11	0.60
O-5/8-20	20"	5/8"-11	0.64
O-3/4-3	3"	3/4"-10	0.14
O-3/4-4	4"	3/4"-10	0.18
O-3/4-5	5"	3/4"-10	0.23
O-3/4-6	6"	3/4"-10	0.27
O-3/4-7	7"	3/4"-10	0.31
O-3/4-8	8"	3/4"-10	0.36
O-3/4-9	9"	3/4"-10	0.42
O-3/4-10	10"	3/4"-10	0.46
O-3/4-12	12"	3/4"-10	0.54
O-3/4-14	14"	3/4"-10	0.52
O-3/4-16	16"	3/4"-10	0.56
O-3/4-18	18"	3/4"-10	0.60
O-3/4-20	20"	3/4"-10	0.64

規格 Spec.	L	T	重量 (KGS) Weight
O-M8-3	75	M8 x 1.25P	0.02
O-M8-4	100	M8 x 1.25P	0.03
O-M8-5	125	M8 x 1.25P	0.04
O-M8-6	150	M8 x 1.25P	0.05
O-M8-7	175	M8 x 1.25P	0.05
O-M8-8	200	M8 x 1.25P	0.06
O-M10-3	75	M10 x 1.5P	0.04
O-M10-4	100	M10 x 1.5P	0.05
O-M10-5	125	M10 x 1.5P	0.06
O-M10-6	150	M10 x 1.5P	0.07
O-M10-7	175	M10 x 1.5P	0.08
O-M10-8	200	M10 x 1.5P	0.09
O-M12-3	75	M12 x 1.75P	0.05
O-M12-4	100	M12 x 1.75P	0.07
O-M12-5	125	M12 x 1.75P	0.09
O-M12-6	150	M12 x 1.75P	0.11
O-M12-7	175	M12 x 1.75P	0.13
O-M12-8	200	M12 x 1.75P	0.14
O-M16-3	75	M16 x 2.0P	0.10
O-M16-4	100	M16 x 2.0P	0.13
O-M16-5	125	M16 x 2.0P	0.16
O-M16-6	150	M16 x 2.0P	0.19
O-M16-7	175	M16 x 2.0P	0.22
O-M16-8	200	M16 x 2.0P	0.26
O-M16-9	225	M16 x 2.0P	0.3
O-M16-10	250	M16 x 2.0P	0.32
O-M16-12	300	M16 x 2.0P	0.38
O-M16-14	350	M16 x 2.0P	0.38
O-M16-16	400	M16 x 2.0P	0.41
O-M16-18	450	M16 x 2.0P	0.44
O-M16-20	500	M16 x 2.0P	0.47
O-M20-3	75	M20 x 2.5P	0.16
O-M20-4	100	M20 x 2.5P	0.20
O-M20-5	125	M20 x 2.5P	0.25
O-M20-6	150	M20 x 2.5P	0.30
O-M20-7	175	M20 x 2.5P	0.36
O-M20-8	200	M20 x 2.5P	0.41
O-M24-3	75	M24 x 3.0P	0.20
O-M24-4	100	M24 x 3.0P	0.3
O-M24-5	125	M24 x 3.0P	0.80
O-M24-6	150	M24 x 3.0P	1.40
O-M24-7	175	M24 x 3.0P	2.00
O-M24-8	200	M24 x 3.0P	2.60

• 長度單位 Unit of Length (mm)



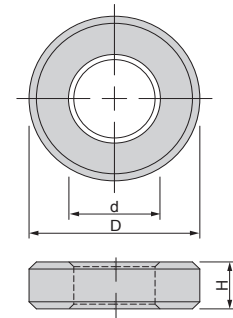
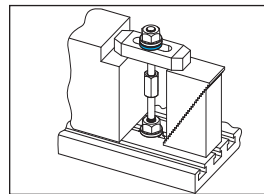
特點 Feature

- 可配合壓板使用 · 方便調整高低

- With the step clamp use, easy to adjust the height.

英制 (inch)

規格 Spec.	適用夾具 Suitable fixture	H	w	重量 (KGS) Weight
1 x 1¼	3/8"	1"-1/4"	1"	0.06
1 x 1¾	3/8"	1"-3/4"	1"	0.14
1 x 3¾	3/8"	3"-7/8"	1"	0.58
1¼ x 1¼	1/2" · 5/8"	1"-1/4"	1"-1/4"	0.08
1¼ x 1¾	1/2" · 5/8"	1"-3/4"	1"-1/4"	0.16
1¼ x 3¾	1/2" · 5/8"	3"-7/8"	1"-1/4"	0.75
1½ x 2½	3/4"	2"-1/2"	1"-1/2"	0.38
1½ x 3¾	3/4"	3"-7/8"	1"-1/2"	0.39
1½ x 5½	3/4"	5"-1/2"	1"-1/2"	1.24



特點 Feature

- 可配合螺帽使用 · 方便做高低或延長的調整

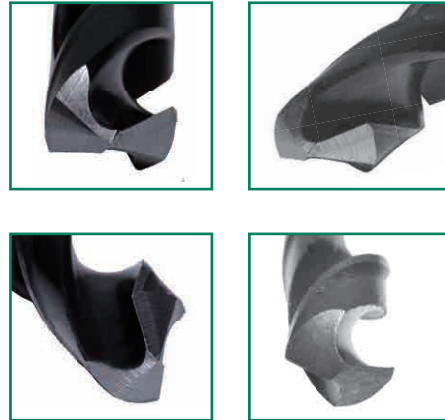
- With the nut use, easy to adjust the height or extension.

規格 Spec.	型式 Type		d	D	H	重量 (KGS) Weight
	英制 (inch)	公制 (mm)				
W-3	3/8"	M10	10.3	22	4	0.01
W-4	1/2"	M12	13	30	6	0.03
W-5	5/8"	M16	16.5	35	10	0.06
W-6	3/4"	M20	20.5	38	10	0.06

• 長度單位 Unit of Length (mm)



LM-SG-213



標準附件 Standard mating parts

- ER 筒夾 2.5、3、4、5、6、7、8、9、10、11、12、13mm 共 12pcs
- CBN 鑽石砂輪 #200x1pcs(HSS 鑽頭專用)
砂輪規格:LM-GW-B200(B)
- 六角扳手 4mmx5mm 各 1pcs
- ER collets 2.5, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, 12pcs in total.
- CBN Diamond Wheel #200*1pc (For HSS drill use).
Wheel spec: LM-GW-B200(B)
- Hex wrench 4mm*5mm 1pc of each

特殊附件 Special purpose mating parts

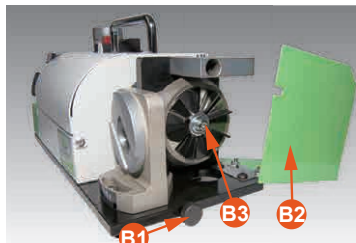
- SDC 鑽石砂輪 #400(鎢鋼鑽頭專用)
砂輪規格:LM-GW-S400(C)
- CBN 鑽石砂輪 #400(4mm 以下 HSS 鑽頭專用)
砂輪規格:LM-GW-B400(A)
- ER 筒夾 2.5、3.5mm~12.5mm 11pcs
- SDC diamond wheel#400 (for tungsten steel drill use)
Wheel spec.: LM-GW-S400(C)
- CBN diamond wheel#400 (for use on below 4mm HSS drill use)
Wheel spec.: LM-GW-B400(A)
- ER Collet 2.5, 3.5~12.5mm, 11pcs in total



更換鑽石砂輪步驟

1. 將本機右側旋鈕 **B1** 鬆開，並將側蓋 **B2** 掀開
2. 用4mm六角扳手逆時鐘方向將螺絲 **B3** 掀開
3. 更換新鑽石砂輪，再將螺絲鎖上即可
4. 將側蓋 **B2** 蓋好，並將旋鈕 **B1** 鎖緊

注意! 鑽石砂輪螺絲 **B3** 未鎖緊，側蓋 **B2** 未蓋好旋鈕 **B1** 未鎖緊前，不可將電源打開，以免發生危險



Procedures for changing the grinding wheel

1. Loosen the side knob **B1** and open the side cover **B2**.
2. Use a 4mm hexagon wrench to loosen the screw **B3**, unscrew it counter-clockwise.
3. Replace a new diamond grinding wheel and tighten the screw after the wheel is installed.
4. Be sure to close the side cover **B2** and fasten the side knob **B1** properly.

Attention!

1. Please make sure that the diamond wheel screw **B3** is tightened, the side cover **B2** is properly closed, and the side knob is fastened before turning ON the machine, in order to prevent any hazard from occurring.
2. The machine has an automatic 'power-off' device that will automatically turn the machine off when the cover is opened.

規格 Spec.	研磨範圍 Drill Diameter	先端角 Point Angle	電源 Power	馬達 Motor	轉速 rpm	重量 (KGS) Weight
LM-SG-213	Ø2~Ø13	85°~140°	AC110AC220V(單相)	200W	6000	9.00
LM-SG-830	Ø8~Ø30	85°~140°	AC110AC220V(單相)	450W	4000	27.0

• 長度單位 Unit of Length (mm)



LM-SG-413



LM-SG-1225



標準附件 Standard mating parts

- 一組電源線
- 二支保險絲
- ER筒夾 4、5、6、7、8、9、10、11、12、13mm 共 10pcs
- 2、3、4 刃夾頭各一組
- SDC 鑽石砂輪 #270(Ø4~5mm 專用) 砂輪規格 :LM-GW-S300(E)
- SDC 鑽石砂輪 #270(Ø6~13mm 專用) 砂輪規格 :LM-GW-S300(G)
- 一隻六角扳手 4mm
- A set of power line
- Two fuses
- ER collets 4, 5, 6, 7, 8, 9, 10, 11, 12, 13mm, 10pcs in total
- 2, 3, 4 chuck for flutes, a set of each
- SDC diamond wheel#270 (for use on dia.4~5mm)
Wheel spec.: LM-GW-S300(E)
- SDC diamond wheel#270 (for use on dia.6~13mm)
Wheel spec.: LM-GW-S300(G)
- An allen wrench of 4mm

特殊附件 Special purpose mating parts

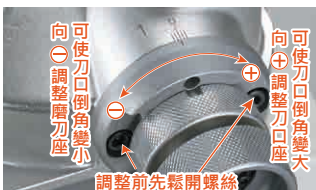
- CBN 鑽石砂輪 #270(Ø4~6mm 專用) 砂輪規格 :LM-GW-B300(D)
- CBN 鑽石砂輪 #270(Ø6~13mm 專用) 砂輪規格 :LM-GW-B300(F)
- CBN diamond wheel#270 (for use on dia.4~6mm)
Wheel spec.: LM-GW-B300(D)
- CBN diamond wheel#270 (for use on dia.6~13mm)
Wheel spec.: LM-GW-B300(F)

標準附件 Standard mating parts

- 一組電源線
- 一支保險絲
- ER筒夾 12、16、18、20、22、25mm 共 6pcs
- 2、3、4 刃夾頭各一組
- CBN 鑽石砂輪 #150(Ø12~25mm HSS 鑽頭專用) 砂輪規格 :LM-GW-B150(R)
- SDC 鑽石砂輪 #150(Ø12~25mm 鎢鋼鑽頭專用) 砂輪規格 :LM-GW-S150(S)
- 一隻六角扳手 4mm
- A set of power line
- One fuse
- ER collets 12, 16, 18, 20, 22, 25mm, 6pcs in total
- 2, 3, 4 chuck for flutes, a set of each
- CBN diamond wheel#150 (use on dia.12~25mm HSS Drill)
Wheel spec.: LM-GW-B150(R)
- SDC diamond wheel#150(use on dia.12~25mm Tungsten steel Drill)
Wheel spec.: LM-GW-S150(S)
- An allen wrench of 4mm

特殊附件 Special purpose mating parts

- CBN 鑽石砂輪 #150(2 刃專用) 砂輪規格 :LM-GW-B150(R)-2T
- SDC 鑽石砂輪 #150(2 刃專用) 砂輪規格 :LM-GW-S150(S)-2T
- ER40-32mm 筒夾 /C32-16、20、25mm 筒夾
- CBN diamond wheel#150 (use on 2T)
Wheel spec.: LM-GW-B150(R)-2T
- SDC diamond wheel#150 (use on 2T)
Wheel spec.: LM-GW-S150(S)-2T
- ER40-32mm collet / C32-16, 20, 25mm collet



規格 Spec.	研磨範圍 Drill Diameter	先端角 Point Angle	電源 Power	馬達 Motor	轉速 rpm	重量 (KGS) Weight
LM-SG-413	Ø4~Ø13	一番角 6° 一番角 20°	AC110	3/4HP 450W	6000	17.0
LM-SG-1225	Ø12~Ø25	一番角 30°	AC220V 50/60Hz	1000W	4300	31.0

• 長度單位 Unit of Length (mm)



SG7572P 短刃鑽頭專用研磨機
SG7572P Duanren special drill grinding machine
SG-ESS Drills ドリル



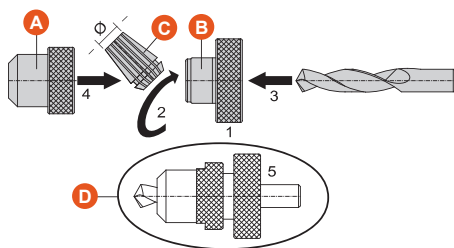
標準附件 Standard mating parts

- 一組電源線
- 一組保險絲
- PER20 筒夾 3、4、5、6、7、8、9、10、11、12 共 10pcs(後夾型)
- ER20 筒夾 13 共 1pcs(標準型)
- ER20 夾頭一組
- CBN 鑽石砂輪 #250 砂輪規格 :LM-GW-B250(T)
- CBN 鑽石砂輪 #400 砂輪規格 :LM-GW-B400(M)
- 六角扳手 4mm、5mm 各一支
- A set of power line
- One fuse
- PER20 collets 3, 4, 5, 6, 7, 8, 9, 10, 11, 12mm, 10pcs in total (rear clamping)ER20 collet 13, 1pc (standard)
- ER20 chuck a set
- CBN diamond wheel#250 Wheel spec.: LM-GW-B250(T)
- CBN diamond wheel#400 Wheel spec.: LM-GW-B400(M)
- An allen wrench of 4mm, & 5mm. 1pc of each

特殊附件 Special purpose mating parts

- ER20 筒夾 3.5、4.5、5.5、6.5、7.5、8.5、9.5、10.5、11.5、12.5 共 10pcs
- SDC 鑽石砂輪 #300
砂輪規格 :LM-GW-S300(N)
- ER20 collet 3.5, 4.5, 5.5, 6.5, 7.5, 8.5, 9.5, 10.5, 11.5, 12.5, 10pcs in total.
- SDC diamond wheel#300
Wheel spec.: LM-GW-S300(N)

如何完成鑽頭研磨前準備 How to prepare for drill grinding

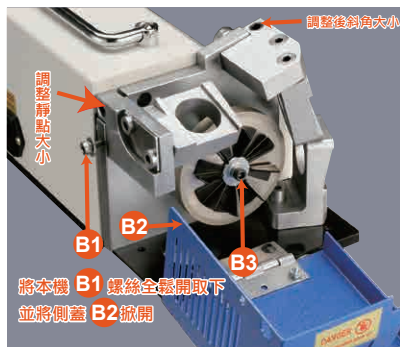


一. 鑽頭研磨前準備步驟 Procedures for changing the grinding wheel:

1. 首先確認鑽頭直徑，再選擇筒夾 **C** 直徑
2. 將選擇的筒夾以適當角度嵌入筒夾迫緊帽內 **B**
3. 鑽頭插入筒夾內，並伸出約35mm左右，但不可鎖緊
4. 筒夾環 **A** 套入筒夾 **C** 並鎖入筒夾迫緊帽 **B** 然後輕輕鎖入並保持鑽頭可用手旋轉
5. 以上步驟即完成鑽頭研磨前準備 **D**

二. 更換鑽石砂輪步驟 Procedures for changing the grinding wheel:

1. 將本機 **B1** 螺絲全鬆開取下，並將砂輪蓋 **B2** 掀開
 2. 用4mm六角扳手逆時鐘方向將螺絲 **B3** 鬆開
 3. 更換新鑽石砂輪，再將螺絲鎖上即可
 4. 將砂輪蓋 **B2** 蓋上，並將螺絲 **B1** 鎖緊
- 注意!** 鑽石砂輪螺絲 **B3** 未鎖緊，砂輪蓋 **B2** 未蓋好，螺絲 **B1** 未鎖緊前，不可將電源打開，以免發生危險



1. Loosen the side knob **B1** and open the side cover **B2**.
2. Use a 4mm hexagon wrench to loosen the screw **B3**, unscrew it counter-clockwise.
3. Replace a new diamond grinding wheel and tighten the screw after the wheel is installed.
4. Be sure to close the side cover **B2** and fasten the side knob **B1** properly.

Attention!

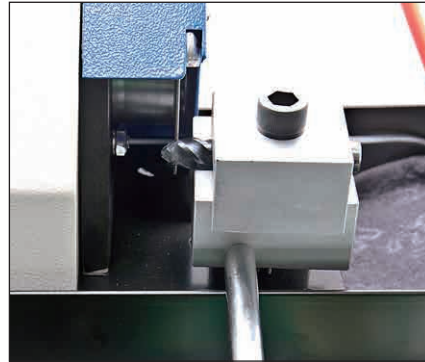
1. Please make sure that the diamond wheel screw **B3** is tightened, the side cover **B2** is properly closed, and the side knob is fastened before turning ON the machine, in order to prevent any hazard from occurring.
2. The machine has an automatic 'power-off' device that will automatically turn the machine off when the cover is opened.

規格 Spec.	研磨範圍 Drill Diameter	先端角 Point Angle	電源 Power	馬達 Motor	轉速 rpm	重量 (KGS) Weight
LM-SG-313-SD	Ø3~Ø13	135°	AC110 AC220V 50/60Hz	200W	4500	12.85

• 長度單位 Unit of Length (mm)



範例 Example



標準附件 Standard mating parts

- 一組電源線
- 兩組保險絲
- SDC 鑽石砂輪 #100
砂輪規格 :LM-GW-S100 (X)(鎢鋼專用)
- 六角扳手 4mm、5mm、10mm 各一支
- 一組握把
- A set of power line
- Two fuses
- SDC diamond wheel#100
Wheel spec.: LM-GW-S100(X)(For tungsten use)
- An allen wrench of 4mm, 5mm,10mm. 1pc of each
- A set of handle

特殊附件 Special purpose mating parts

- CBN 鑽石砂輪 #100
砂輪規格 :LM-GW-B100(Y) HSS 專用
- CBN diamond wheel#100
Wheel spec.: LM-GW-B100(Y) (For HSS use).

選配表 Option

- 水箱 : LM-SG-316-WB
- Water box: LM-SG-316-WB

範例 Example



規格 Spec.	切斷範圍 Cut Range	電源 Power	馬達 Motor	轉速 rpm	重量 (KGS) Weight
LM-SG-316	3mm~16mm	AC110 AC220V 50/60Hz	600w	6000	13.5