



AUTOWELL®

Integrity . Quality . Service . Innovation

Workholding

For CNC machining centers and milling machines

MC power vises system
Double station vises system
Any-vise® system
Aluminum double station vises system
Wellock vises system
Hydraulic power vises system
Jig block system
Precision accessories
Accessories

AUTO WELL ENTERPRISE CO., LTD.

Workholding

For CNC machining centers and milling machines

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For CNC machining centers and milling machines

Registered ISO 9001:2008

元駿企業股份有限公司
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We reserve the right to modify and improve our products without prior notice.

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VARIOUS PRECISION VISES

For CNC machining centers and milling machines

Registered ISO 9001:2008

AUTOWELL is the first precise vise manufacturer that passed the SGS TSO9001 international quality certification in Taiwan. Our products are sold to Canada Britain, Germany, Holand, Italy, Australia, Japan, Korea, China, Singapore, Malaysia, Thailand, South Africa, Etc.

Auto Well Enter. Co., Ltd was founded in 1980 and started from produce the Hydraulic Power Machine Vise. The promoter, Philip Lin, devotes to develop the Machinery Industry and abides staunchly by the faith: Honor, Quality, Service, and Creation. The most plentiful wealth Auto Well has is the accumulations of many elite and excellent techniques during these 30 years. We have passed the ISO Certification. We satisfy the customers by keep studying creation, develop high quality products, and perfect service. Nowadays, we are the earliest and most professional precise vise manufacturer in Taiwan.

The quality guarantee of Auto Well is come from the excellent manufacture ability. Inside, we carry through the quality policy: "Do the right thing, do the thing right." We are not like the other vise manufacturers in Taiwan which are just fabricate the vise. Perhaps almost all of their spare parts are buying from outside. The product policy of Auto Well is "primary quality, secondly the cost." There are several CNC and surface grinding machines in our company, so we can control and process the quality of precision by ourselves. We use the ERP and ISO quality

security system to be the nuclear of management. Outside, we use "internationalization and liberalization" to lead our marketing and provide the customer the best and fastest service via overseas marketing. The departments of administrative, financial, sales, R&D and quality which are cooperate closely with each other to become a firm management team. The foregoing is making the precise vise of Auto Well reach the international highest standard.

We are the first precise vise manufacturer that passed the ISO international quality certification in Taiwan. Our products are sold to U.S.A., Canada, UK, Germany, Holland, Italy, Australia, Japan, Korea, China, Singapore, Malaysia, Thailand, South Africa, etc... In the current great environment of the international market, we keep the existing products improving. Furthermore, our R&D department develops new products in order to satisfy different customers and different demands. We have obtained various kinds of domestic and international rewards, authentication and patent registrations. All of these are the duties for Auto Well should to be responsible for the precise vise industry in Taiwan.

精密虎鉗 工作交換台

用於CNC加工中心和銑床



台灣首家通過SGS TSO9001國際質量認證的精密虎鉗製造商。

誠信、品質、服務、創新

貫徹「做對的事情、把事情做對」的管理策略及「首要品質，其次成本」的產品理念。

元駿企業股份有限公司

創立於1980年，以生產內藏式油壓虎鉗起家，為台灣第一家ISO專業精密治具虎鉗製造公司。創辦人林澤培先生秉持著「誠信、品質、服務、創新」的經營理念，不斷致力於拓展機械工業，使得元駿企業成為台灣第一家通過ISO國際品質認證的專業精密治具虎鉗製造廠，並於2010年榮獲台灣精品獎的肯定。產品行銷至加拿大、英國、德國、荷蘭、義大利、澳洲、日本、韓國、中國、新加坡、馬來西亞、泰國、埃及、南非等地區。

「首要品質，其次成本」

元駿企業的品質保證來自卓越的生產與管理能力，在四十年的歲月裡所累積的無數的優秀人才和精良技術更是公司所擁有最豐富的資源。對內貫徹「做對的事情、把事情做對」的管理策略及「首要品質，其次成本」的產品理念。為求自行掌控生產加工精密度的品質，廠內不僅備有數台CNC及平面磨床

，更引進最新科技高度規QC檢測儀；內部管理工具以ISO品質保證系統和鼎新ERP(Enterprise Resource Planning)做為管理工具核心。

國際化、自由化

我們以國際化、自由化引導行銷，只求為客戶提供最快、最好的服務。元駿企業之管理、財務、業務、研發、生產及品保等部門互相緊密協調配合，形成堅實的企業團隊，再佐以完善的企業系統，使得元駿企業精密治具虎鉗達到國際級以上的專業水準。在現今國際市場的大環境下，我們認為模具、治具為產品生產不可或缺之重要環節，因此，提升工具的模組化將是未來發展重心；除了現有產品精益求精外，元駿企業研發部門透過ISO體系及不斷研究創新，開發更符合需求的新產品，滿足不同的客戶及市場，並提供完善服務，同時獲國內外各種獎項、認證和國際專利登記；這些都是元駿企業對於台灣精密治具虎鉗業應有的企業責任。



1 MC POWER VISES SYSTEM MC精密虎鉗系列

AVK P08	ALQ P09	ACR P10 new!	AVR P11
AVS P12 new!	AVQ P13	AVM P14	AVC P15
AVL P16	AEX P17 new!	AEC P18 new!	AQM P19 new!
AMP P20	AOM P21	ACB P22 new!	

2 DOUBLE STATION VISES SYSTEM 雙鵝虎鉗系列

TLD P26	ALD P27	HLD P28	ALT-100 P29
ALT-50 P30	ACT-50 P31 new!	AZV P32 new!	

3 ANY-VISE® SYSTEM 任意虎鉗

AB(D,F)K2-VT P34 new!	AB(D,F)K2-SO P35 new!	AB(D,F)K2-VT-T P36 new!	ALG P38
BLG P40	ELG P41	OPTIONAL ACCESSORIES P44~49 new!	

4 ALUMINUM DOUBLE STATION VISES SYSTEM 鋁合金雙鵝系列

AQS P51	
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5 WELLOCK VISES SYSTEM 角固系列

ATW P54	ATD P55	ADX, ADXR/ EDX, EDXR P56 new!
MG P57	MGR P57	AMC P58



6 HYDRAULIC POWER VISES SYSTEM 油壓系列

HPT P59



MP P60



HP P61



SMART JAW P62

new!



7 JIG BLOCK SYSTEM 虎鉗基座組合系列

ALR P66



TLR P67



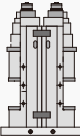
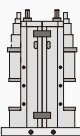
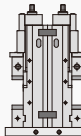
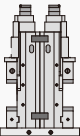
TLR TOMBSTONE P68



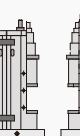
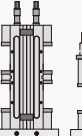
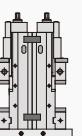
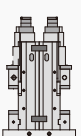
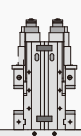
V2 ALQ / V2 P70



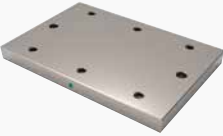
V2 AVQ, AVL, AVC, AVM, TLD / V2 P72 / P73



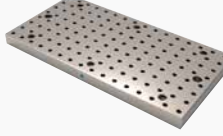
V4 ALQ, AVQ, AVL, TLD, AVC, TVM / V4 P74 / P76



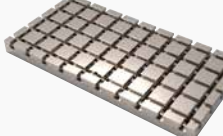
ABP-01 P77



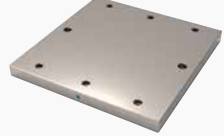
ABP-02 P78



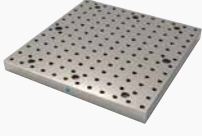
ABP-03 P79



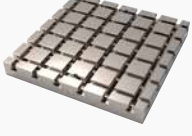
ABP-04 P80



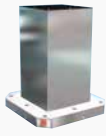
ABP-05 P81



ABP-06 P82



ABP-07 P83



ABP-08 P84



ABP-09 P85



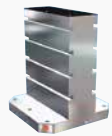
ABP-10 P86



ABP-11 P87



ABP-12 P88

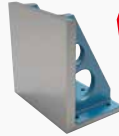


ABP-13 P89



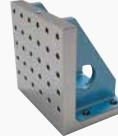
ABP-16 P90

new!



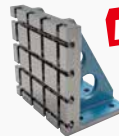
ABP-17 P91

new!



ABP-18 P92

new!



ABP-0.32 P93

new!



8 PRECISION ACCESSORIES 精密虎鉗配件

GAP, AGP P95



AGP P96

new!



GVL, VSU P97



GLK, VSB P98



GSV, GAA P99



GAS, PGV P100



AVV P101



AGV, GVC, AGL P102



CSV, AVS, AVB P103



AVS, SVA P104



ASV, VSD, CHM P105



9 ACCESSORIES 虎鉗配件

GAP, AGP P106



GLOBAL ANGES P108





MC MECHANICAL SUPER VISE
MC 精密虎鉗

HIGH CLAMPING FORCE & EXTRA
OUT-JAW CLAMPING CAPACITY

高夾持力、外鉗口加大夾持空間

MC Power Vises are all in excellent precision and higher than JIS. Class with largest clamping force 50KN. The main feature of Auto Well Power Vise Series to be better than other brands' due to it has 3 patents: Lockwell Anti-Lift Mechanism, Mechanical Booster and Force Adjustable Function.

Unique Out-jaw design increase the clamping capacity.

Force Adjustable System (patented) makes the force setting easier and steadier. Clamping force can be freely adjusted with the guidance of graduation lines.

Lockwell Anti-Lift mechanism (patented) ensures the workpiece does not lift.

Mechanical Booster (patented) provides a steady clamping force and inside Disc-Spring to against shocks and vibrations while operation.

The improved chip cover mechanism prevents the rust and extends the lifetime.

Most suitable for VMC & HMC. Tolerance required within 0.01mm.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.



MC精密虎鉗在精度方面的要求皆高於JIS. 標準，夾持力最高可達50KN。更擁有「向量式原理(LOCKWELL)防止上浮機構」、「倍力增壓機構」與「壓力調整系統」三項專利而優於他牌。

首創獨特外鉗口設計，加大夾持範圍。

調整壓力專利機構，使壓力設定更容易，穩定性更高；夾持力可依刻度線輔助自由調壓。

向量式原理(LOCKWELL)專利設計，降低工件加工時所產生之上浮力。

專利倍力增壓機構使夾持力穩定度高，對抗操作時產生之震顫，並藉由內建之碟形彈簧(Disc-Spring)增加吸震作用。

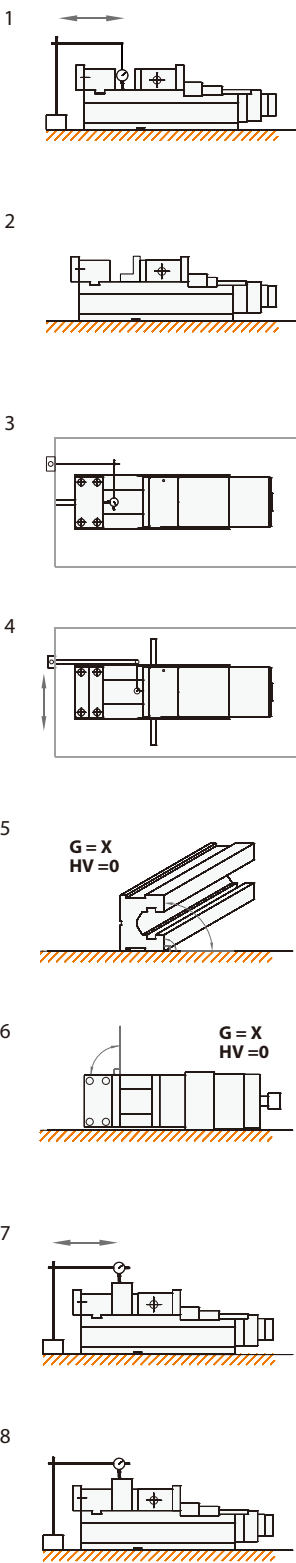
改良防塵防水機構，延長虎鉗使用壽命。

立、橫兩用。可翻側面使用，精度要求於0.01mm以內。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60(80,000PSI)抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

STATIC ACCURACY

精度表



LOCKWELL ANTI-LIFT MECHANISM

向量式原理(LOCKWELL) 防止上浮機構

LIFT CAN BE CONTROLLED WITHIN 0.01MM
上浮力控制在0.01mm之內

Clamping force and Anti-Lift mechanism features virtually eliminate and fixed jaw deflection and lift.

工件受夾持力“F”時，產生一向下分力“N”使工件產生向下壓力的效果，以消除傳統式虎鉗操作時所產生之傾斜、偏向。



DIMENSIONS

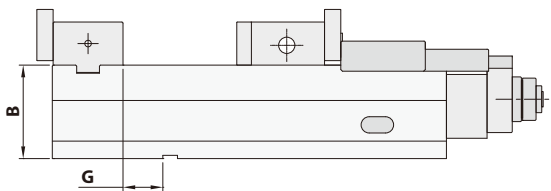
規格表

B-dimension tolerance ±0.01 mm

G-dimension tolerance ±0.01 mm

B規格公差±0.01mm

G規格公差±0.01mm



For guide blocks other than standard, consult our Engineering Dept.

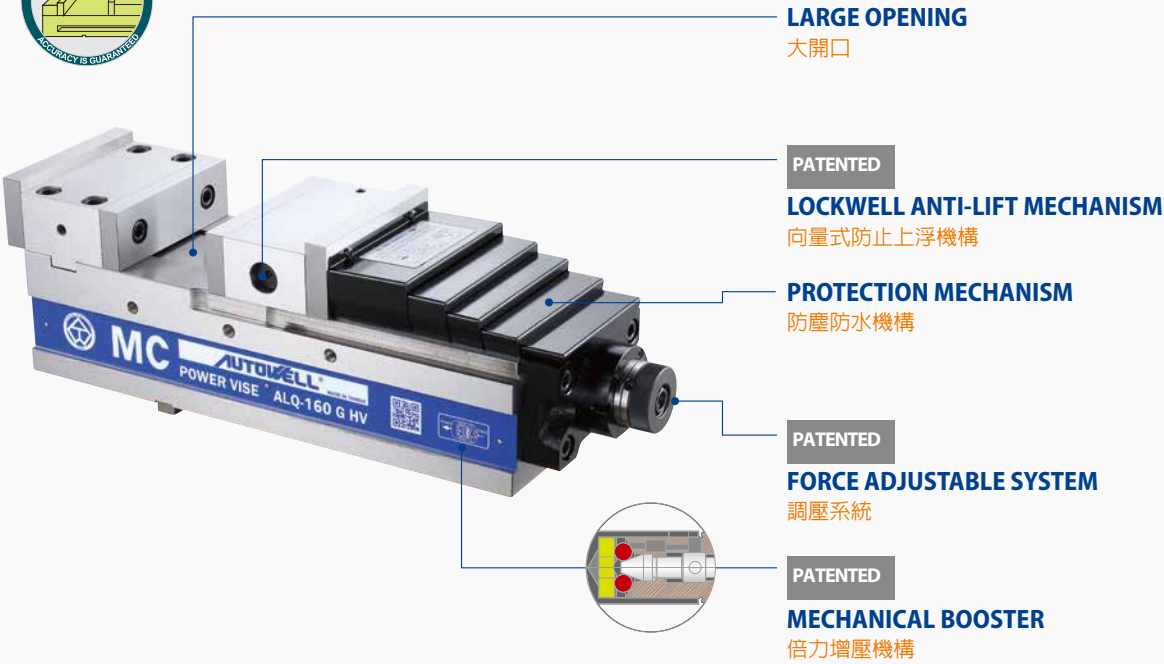
MC POWER VISE SYSTEM

倍力增壓虎鉗

NO.	INSPECTION ITEMS (PER 100 MM) 檢查項目 (每100mm)		ALLOWANCE 容許值	
			AUTOWELL	JIS. CLASS
1	PARALLELISM	Running face to bottom of bed 本台滑動面對底面之平行度	0.01	0.015
2	SQUARENESS	Between running face and jaw plate 鉗口面對滑動面之垂直度	0.01	0.03
3	SQUARENESS	Keyways on bottom of bed to jaw plate 鉗口面對本台底面T型槽之垂直度	0.015	0.015
4	PARALLELISM	Keyways on bottom of bed to jaw plate 鉗口面對本台底面T型槽之平行度	0.01	0.015
5	SQUARENESS	Both sides to running face 雙側面對滑動面之垂直度	0.02	0.02
6	SQUARENESS	Both sides to fixed jaw plate 雙側面對固定鉗口面之垂直度	0.02	0.02
7	PARALLELISM	Running face of the test block to bottom of bed 測試塊夾緊後，滑動面對本台底面之平行度	0.015	0.02
8	PARALLELISM	Lift can be controled when clamping test 測試塊夾緊後，對本台底面之上浮量	0.015	0.03

Basic on global market, our company start producing MC serious type of vise on 1986 and we keep our vise dimensions as same since then. There is no fitment or alignment problem between our old and new MC vise.

同高定寸：針對全球市場，本公司於1986年開始生產MC系列虎鉗，並全部保持一致尺寸；讓您在不論是在過去、現在或未來所購買的MC系列虎鉗均可多台並列使用。



AVK

160, 200

Workholding

ULTRA-LOW
HEIGHT MECHANICAL
POWER VISE

超低加大開口 倍力增壓式虎鉗

New design with ultra-low vise body and largest opening, besides, it has 3 patents: Lockwell Anti-Lift Mechanism, Mechanical Booster and Force Adjustable Function. Largest opening, high accuracy and strong rigidity for increase the efficiency and productivity.

Vise with ultra-low bed height & largest opening.

Force Adjustable System (patented) makes the force setting easier & steadier, moreover, it has constant pressure function & over pressure protection.

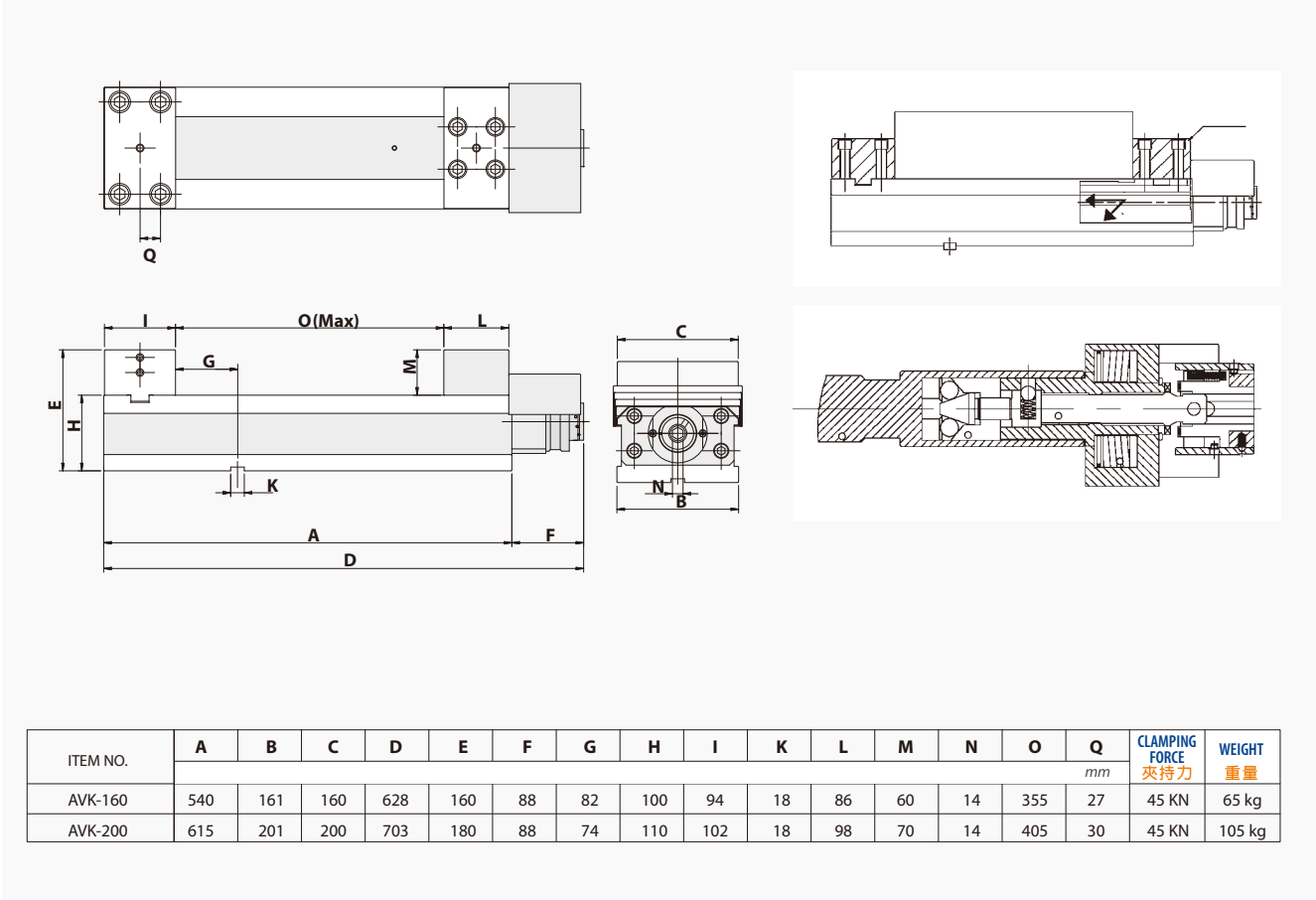
Patented Mechanical Booster is fully sealed against dust, chips and cutting fluid for extended life time.

Lockwell Anti-Lift mechanism (patented) ensures the workpiece does not deflect and lift.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

Unique design facilitates the evacuation of chips.

DIMENSIONS 尺寸圖



ALQ

160, 200 G/HV

Workholding

MC MECHANICAL
LONG POWER VISE

加長型 倍力增壓式虎鉗

MC Mechanical Long Power vise with large opening and Lockwell Anti-Lift Mechanism is most suitable for VMC & HMC. This vise owns 3 patents and has the honor to get TAIWAN EXCELLENCE 2010.

Force Adjustable System (patented) makes the force setting easier & steadier, moreover, it has constant pressure function & over pressure protection.

Patented Mechanical Booster is fully sealed against dust, chips and cutting fluid for extended life time.

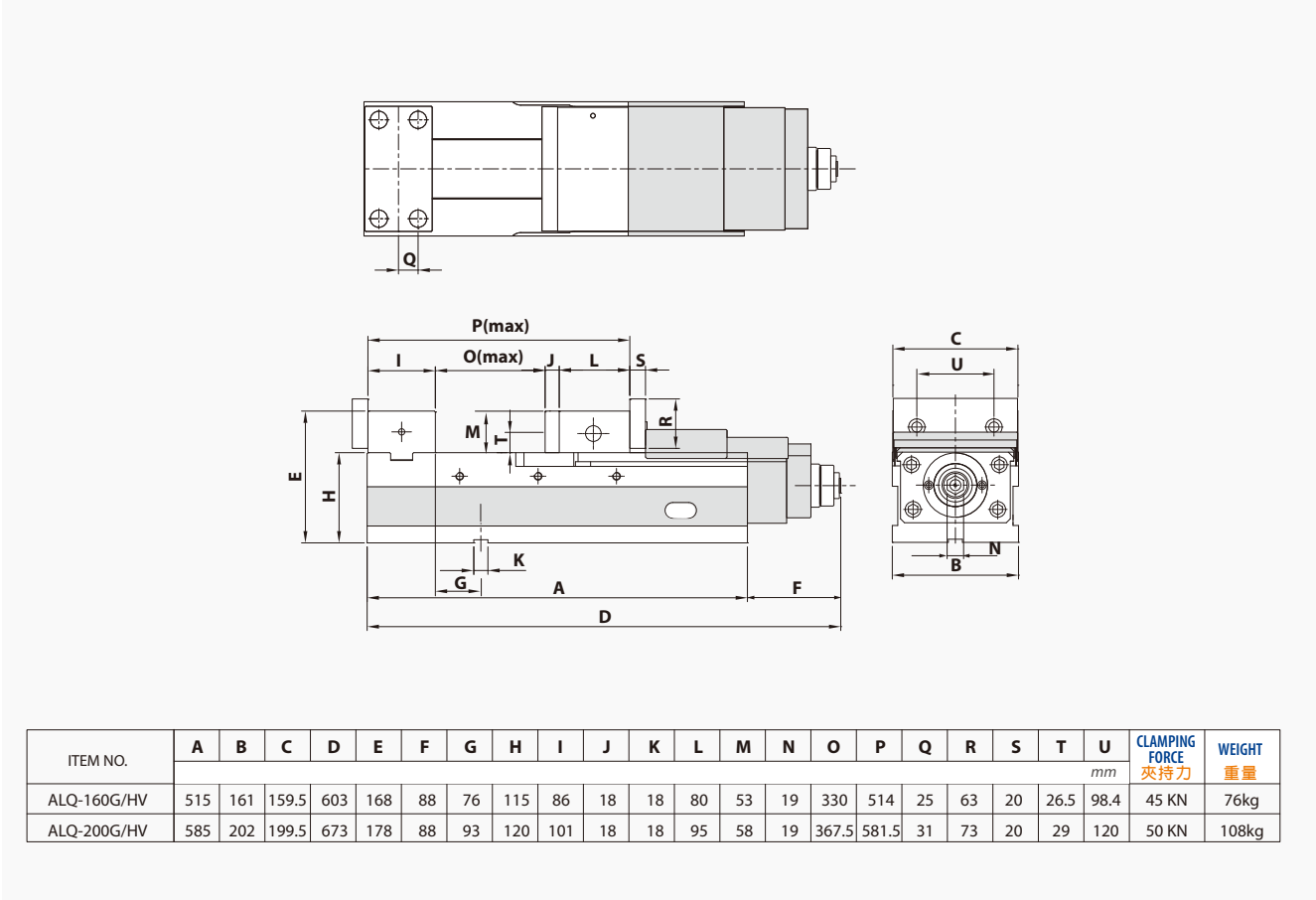
Lockwell Anti-Lift mechanism (patented) ensures the workpiece does not deflect and lift.

Unique Out-jaw design increase the clamping capacity.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

Unique design facilitates the evacuation of chips.

DIMENSIONS 尺寸圖



ACR
160, 200

MC MECHANICAL
REVERSED VISE

反向型向量式精密 虎鉗

Workholding



ACR-125,160GHV

Most suitable for VMC & HMC and owns 2 patents °

Unique Out-jaw design increase the clamping capacity °

Rigid and tensile ductile iron FCD-60(80000PSI) vise body.Slide surface flame hardened to HRC65° to maintain the accuracy.S50C jaw-plate has been Carburizing hreated the hardness to HRC54° °

Unique desing facilitates the evacuation of chips

向量式(LOCKWELL)大開口精密機械虎鉗,適用於立/臥式綜合加工機上使用,本產品有專利在案。

向量式(LOCKWELL)專利設計,使工件產生向下壓力效果,以消除傳統虎鉗操作時所產生的傾斜與偏向。

首創獨特外鉗口設計,加大夾持範圍。

虎鉗本台使用強而有力的球狀石磨鑄鐵 FCD-60(80000PSI)抗張力強,不易變形;本台滑動面均經高週波硬化熱處理HRC65°以上,強化滑動面的耐磨性與精度;鉗口均採用S50C材質,再經滲碳熱處理使其硬度達HRC54°以上。

獨特防屑設計,防止鐵屑進入虎鉗內部並且容易排出虎鉗內部,延長使用期限

AVR
125, 160 G/HV

MC MECHANICAL
REVERSED POWER VISE

反向型 倍力增壓式虎鉗

Workholding



Most suitable for VMC & HMC and owns 2 patents.

Force Adjustable System (patented) makes the force setting easier & steadier, moreover, it has constant pressure function & over pressure protection.

Patented Mechanical Booster is fully sealed against dust, chips and cutting fluid for extended life time.

Unique Out-jaw design increase the clamping capacity.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

Unique design facilitates the evacuation of chips.

獨特超低本台設計與超大夾持範圍設計。

專利壓力調整機構讓虎鉗可隨時設定夾持壓力且有定壓與過壓保護裝置。

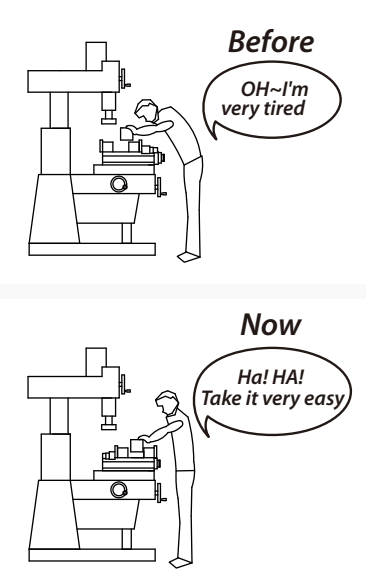
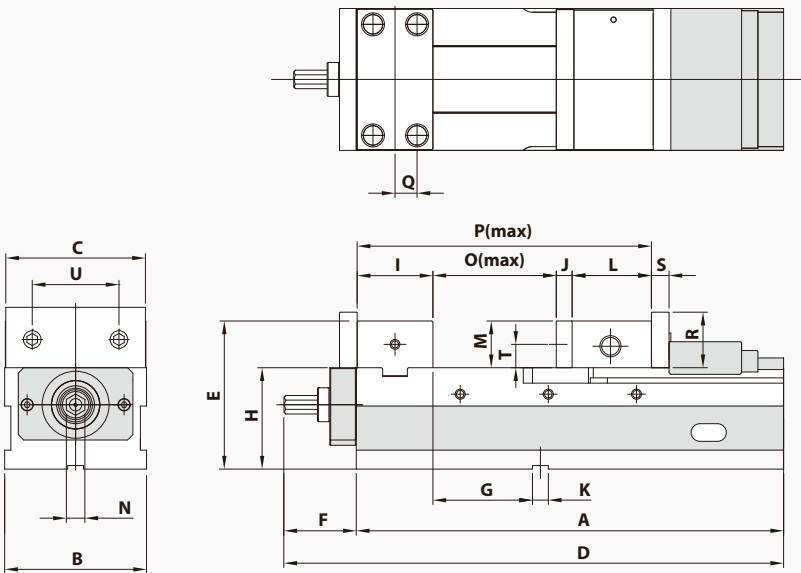
專利倍力機構擁有密封式防止鐵屑與切削液進入之設計,以增加倍力機構使用年徑。

特殊防止工件上浮機構,使工件產生向下壓力效果,以消除傳統虎鉗操作時所產生之傾斜與偏向。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60 (80,000PSI) 抗張力強,不易變形;本台滑動面均經高週波硬化熱處理HS65°以上,強化滑動面的耐磨性與精度;鉗口均採用S50C材質,再經滲碳熱處理使其硬度達HRC54°以上。

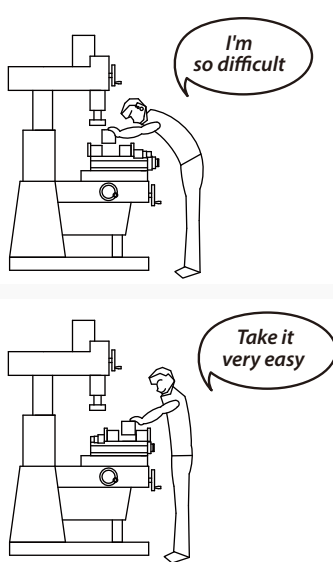
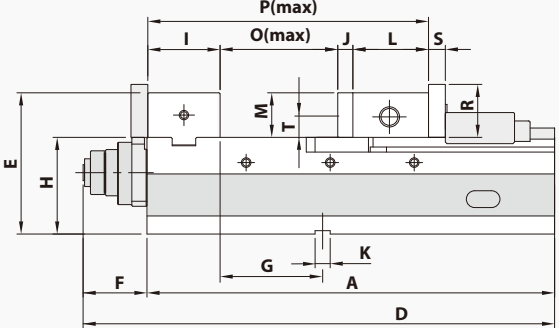
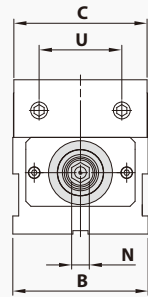
獨特防屑與排屑設計,防止鐵屑進入虎鉗內部並且容易排出虎鉗內部,延長使用期限。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	CLAMPING FORCE 夾持力	WEIGHT 重量
ACR-125G/HV	390	127	124.7	474	153	84	66	100	78	15	18	87.5	53	19	173	353.5	22.5	63	20	26.5	60	/	43kg
ACR-160G/HV	515	161	159.5	495	168	82	76	115	86	18	18	80	53	19	289	514	25	63	20	26.5	98.4	/	71kg

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	CLAMPING FORCE 夾持力	WEIGHT 重量
AVR-125 G/HV	390	127	124.7	460	153	70	66	100	78	15	18	87.5	53	19	173	353.5	22.5	63	20	26.5	60	35 KN	46 kg
AVR-160 G/HV	515	161	159.5	591	168	76	76	115	86	18	18	80	53	19	289	474	25	63	20	26.5	98.4	45 KN	76 kg

AVS-155/160

Workholding

ULTRA LARGE OPENING
MC MECHANICAL
POWER VISE

加大開口 倍力增壓式虎鉗



MC Mechanical Power Vise is most suitable for VMC & HMC and owns 3 patents.

Patented Force Adjustable System (patented) makes the force setting easier & steadier, moreover, it has constant pressure function & over pressure protection.

Patented Mechanical Booster is fully sealed against dust, chips and cutting fluid for extended life time.

Lockwell Anti-Lift mechanism (patented) ensures the workpiece does not deflect and lift.

Unique Out-jaw design increase the clamping capacity.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

Unique design facilitates the evacuation of chips.

向量式(LOCKWELL)大開口精密機械倍力增壓虎鉗，適用於立/臥式綜合銑切削加工中心機上使用，本產品有三項專利在案。

專利壓力調整機構讓虎鉗可隨時設定夾持壓力且有定壓與過壓保護裝置。

專利倍力機構擁有密封式防止鐵屑與切削液進入之設計，以增加倍力機構使用年限。

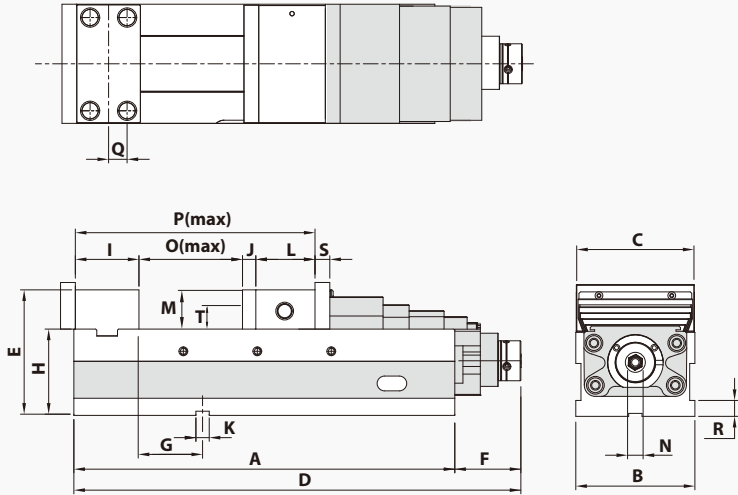
向量式(LOCKWELL)專利設計，使工件產生向下壓力效果，以消除傳統虎鉗操作時所產生之傾斜與偏向。

首創獨特外鉗口設計，加大夾持範圍。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60（80,000PSI）抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

獨特防屑與排屑設計，防止鐵屑進入虎鉗內部並且容易排出虎鉗內部，延長使用期限。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	K	L	M	N	O	T	U	CLAMPING FORCE 夾持力	WEIGHT 重量
AVS-155G/HV	370	161	160	403	160	33	50	100	94	18	86	60	14	186	30	87	45KN	49kg
AVS-160G/HV	490	161	160	523	160	33	50	100	94	18	86	60	14	306	30	87	45KN	57kg

AVQ

100,125,160, 200G/HV

Workholding

MC MECHANICAL
POWER VISE

倍力增壓式精密虎鉗



MC Mechanical Power Vise is most suitable for VMC & HMC and owns 3 patents.

Patented Force Adjustable System (patented) makes the force setting easier & steadier, moreover, it has constant pressure function & over pressure protection.

Patented Mechanical Booster is fully sealed against dust, chips and cutting fluid for extended life time.

Lockwell Anti-Lift mechanism (patented) ensures the workpiece does not deflect and lift.

Unique Out-jaw design increase the clamping capacity.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

Unique design facilitates the evacuation of chips.

向量式(LOCKWELL)精密機械倍力增壓虎鉗，適用於立/臥式綜合銑切削加工中心機上使用，本產品有三項專利在案。

專利壓力調整機構讓虎鉗可隨時設定夾持壓力且有定壓與過壓保護裝置。

專利倍力機構擁有密封式防止鐵屑與切削液進入之設計，以增加倍力機構使用年限。

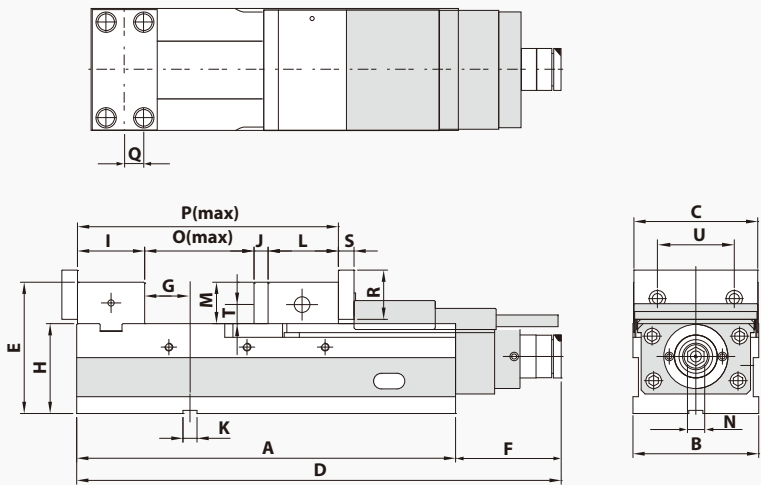
向量式(LOCKWELL)專利設計，使工件產生向下壓力效果，以消除傳統虎鉗操作時所產生的傾斜與偏向。

首創獨特外鉗口設計，加大夾持範圍。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60（80,000PSI）抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

獨特防屑與排屑設計，防止鐵屑進入虎鉗內部並且容易排出虎鉗內部，延長使用期限。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	CLAMPING FORCE 夾持力	WEIGHT 重量
AVQ-100G/HV	324	104	102	412	130	88	41	85	73	15	18	86.5	45	19	140	314.5	20	55	20	22.5	58	25 KN	30kg
AVQ-125G/HV	390	127	125	478	153	88	66	100	78	15	18	87.5	53	19	201	381.5	22.5	63	20	26.5	60	35 KN	46kg
AVQ-160G/HV	485	161	159.5	573	168	88	58	115	86	18	18	80	53	19	295	479	25	63	20	26.5	98.4	45 KN	71kg
AVQ-200G/HV	535	202	200	623	178	88	75	120	101	18	18	95	58	19	320	534	31	73	20	29	120	50 KN	100kg

AVM
100, 130, 160, 165, 200G/HV
APV-160G/HV

WELLOCK
MC MECHANICAL
POWER VISE

角固式 精密機械倍力增壓虎鉗



Workholding

Wellock MC Mechanical Power Vise is most suitable for VMC & HMC and owns 2 patents.

Patented Force Adjustable System (patented) makes the force setting easier & steadier, moreover, it has constant pressure function & over pressure protection.

Patented Mechanical Booster is fully sealed against dust, chips and cutting fluid for extended life time.

Wellock Semi-spherical segment eliminate deflection and lift.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

4 different clamping positions.

Unique design facilitates the evacuation of chips.

角固式(WELLOCK)精密機械倍力增壓虎鉗，適用於立/臥式綜合銑切削加工中心機上使用，本產品有二項專利在案。

專利壓力調整機構讓虎鉗可隨時設定夾持壓力且有定壓與過壓保護裝置。

專利倍力機構擁有密封式防止鐵屑與切削液進入之設計，以增加倍力機構使用年限。

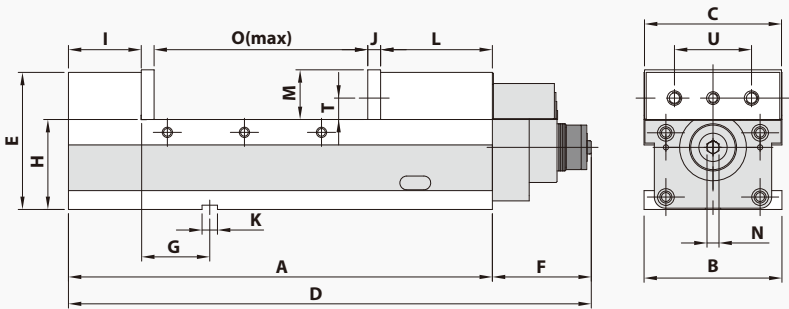
角固式(WELLOCK)半圓球可產生角固下鎖之力，可消除鉗口板上浮和工件傾斜。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60 (80,000PSI) 抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

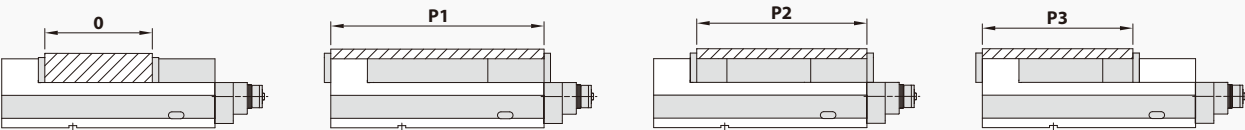
虎鉗擁有四種不同的夾持開口應用位置供客戶選擇。

獨特防屑與排屑設計，防止鐵屑進入虎鉗內部並且容易排出虎鉗內部，延長使用期限。

DIMENSIONS 尺寸圖



* 4 different clamping positions (outside jaws is optional accessories). * 提供您選擇四種不同夾持方式(外側鉗口為特殊附件)。



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P1	P2	P3	T	U	CLAMPING FORCE 夾持力	WEIGHT 重量
AVM-100G/HV	350	101	100	470	130	110	45	85	65	15	18	105	48	19	150	150-330	150-240	150-200	22	60	25KN	24kg
AVM-130G/HV	415	131	130	525	147	110	65	95	70	15	18	115	55	19	201	201-400	201-300	201-250	25	90	35KN	38kg
AVM-160G/HV	495	161	160	583	160	88	80	105	85	15	18	130	58	19	245	250-480	250-370	250-330	25	90	43KN	55kg
AVM-165G/HV	560	161	160	648	160	88	80	105	85	15	18	130	58	19	310	315-545	315-435	315-395	25	90	43KN	64kg
AVM-200G/HV	580	201	200	708	170	128	100	110	90	18	18	150	63	19	290	290-550	290-430	290-370	28	120	60KN	78kg
APV-160G/HV	560	161	160	648	160	88	80	100	85	15	18	130	60	19	310	315-545	315-435	315-395	25	90	43KN	64kg

AVC
100, 130, 160, 165, 200G/HV
APC-160G/HV

WELLOCK
MC MACHINE
VISE

角固式 機械精密虎鉗



Workholding

Wellock MC Machine Vise is most suitable for VMC & HMC.

Wellock Semi-spherical segment eliminate deflection and lift.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

4 different clamping positions.

Unique design facilitates the evacuation of chips.

角固式(WELLOCK)精密虎鉗，適用於立/臥式綜合銑切削加工中心機上使用。

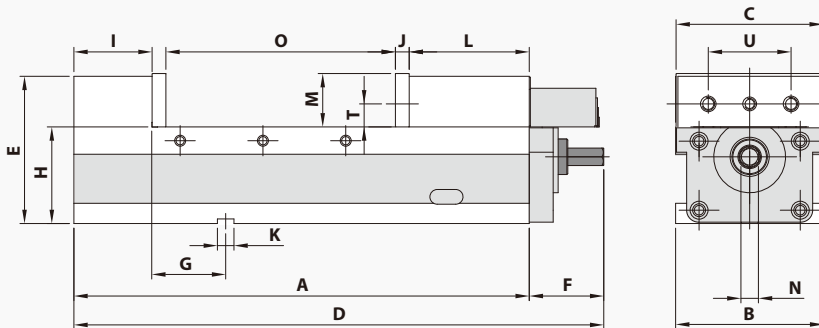
角固式(WELLOCK)半圓球可產生角固下鎖之力，可消除鉗口板上浮和工件傾斜。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60(80,000PSI)抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

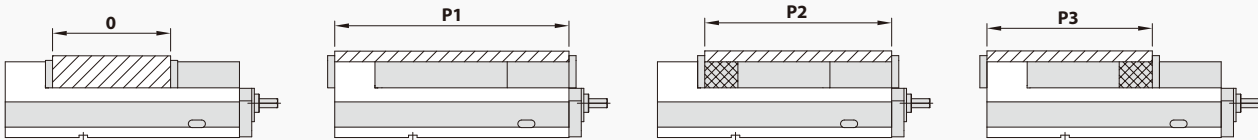
虎鉗擁有四種不同的夾持開口應用位置來供客戶選擇。

獨特防屑與排屑設計，防止鐵屑進入虎鉗內部並且容易排出虎鉗內部，延長使用期限。

DIMENSIONS 尺寸圖



* 4 different clamping positions (outside jaws is optional accessories). * 提供您選擇四種不同夾持方式(外側鉗口為特殊附件)。



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P1	P2	P3	T	U	WEIGHT 重量
AVC-100G/HV	350	101	100	430	130	80	45	85	65	15	18	105	48	19	150	150-330	150-240	150-200	22	60	21kg
AVC-130G/HV	415	131	130	495	147	80	65	95	70	15	18	115	55	19	201	201-400	201-300	201-250	25	90	35kg
AVC-160G/HV	495	161	160	576	160	81	80	105	85	15	18	130	58	19	245	250-480	250-370	250-330	25	90	52kg
AVC-165G/HV	560	161	160	641	160	81	80	105	85	15	18	130	58	19	310	315-545	315-435	315-395	25	90	61kg
AVC-200G/HV	580	201	200	670	170	90	100	110	90	18	18	150	63	19	290	290-550	290-430	290-370	28	120	75kg
APC-160G/HV	560	161	160	641	155	81	80	100	85	15	18	130	58	19	310	315-545	315-435	315-395	25	90	61kg

AVL
100, 125, 160, 165
200, 235G/HV

MC LOCKWELL
SUPER VISE

向量式 精密虎鉗



Workholding

MC Lockwell Super Vise is most suitable for VMC & HMC and got patents.

Lockwell Anti-Lift Mechanism (patented) ensures the workpiece does not deflect and lift.

Unique Out-jaw design increase the clamping capacity.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

Unique design facilitates the evacuation of chips.

向量式(LOCKWELL)精密機械虎鉗，適用於立/臥式綜合銑切削加工中心機上使用，本產品有專利在案。

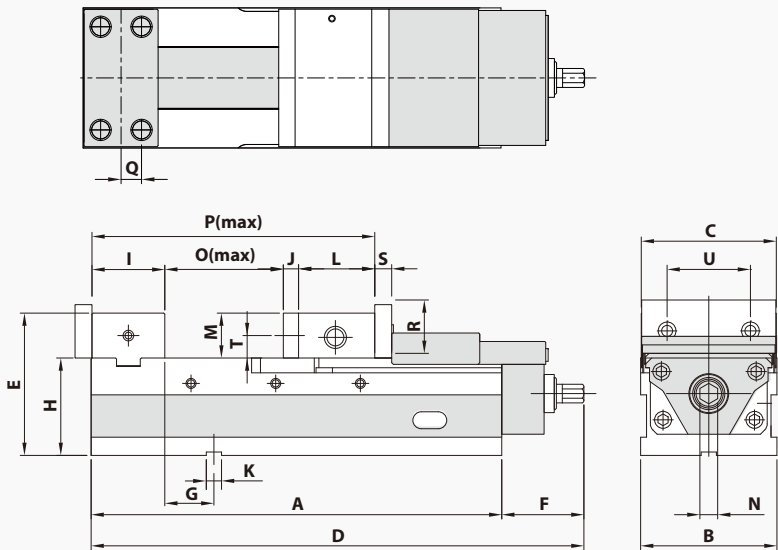
向量式(LOCKWELL)專利設計，使工件產生向下壓力效果，以消除傳統虎鉗操作時所產生的傾斜與偏向。

首創獨特外鉗口設計，加大夾持範圍。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60(80,000PSI)抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

獨特防屑與排屑設計，防止鐵屑進入虎鉗內部並且容易排出虎鉗內部，延長使用期限。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	WEIGHT 重量
AVL-100G/HV	324	104	102	437	130	104	41	85	73	15	18	86.5	45	19	140	314.5	20	55	17	22.5	58	27kg
AVL-125G/HV	390	127	124.7	480	153	105	66	100	78	15	18	87.5	53	19	201	381.5	22.5	63	20	26.5	60	43kg
AVL-160G/HV	485	161	159.2	625	168	120	58	115	86	18	18	80	53	21	295	479	25	63	20	26.5	98.4	71kg
AVL-165G/HV	515	161	159.2	655	168	120	76	115	86	18	18	80	53	21	330	514	25	63	20	26.5	98.4	76kg
AVL-180G/HV	545	161	159.2	685	168	120	76	115	86	18	18	80	53	21	360	544	25	63	20	26.5	98.4	80kg
AVL-200G/HV	535	202	199.5	660	178	128	75	120	101	18	18	95	58	19	320	534	31	73	20	29	120	98kg
AVL-235G/HV	585	202	199.5	710	178	128	93	120	101	18	18	95	58	19	367.5	581.5	31	73	20	29	120	105kg

AEX
125,160G
WELLOCK
5 AXIS MECHANICAL
POWER VISE

5軸用MC倍力增壓 精密虎鉗

Workholding



Steady Clamping Force Built-in mechanical booster,maximum clamping force up to 40KN, suitable for working on all kinds of hard and soft workpiece.

S50C jaw-plate has been carburizing heat treated the gardness to HRC54°.

Fit well with 5 Axis MC machine center, horizontal and vertical machine center. It can work with rotary machine and related machine.

Patented Mechanical Booster is fully sealed against dust, chips and cutting fluid for extended life time.

Unique Anti-Lift mechanism (patented) ensures the workpiece does not deflect and lift.

Rigid and tensile ductile iron FCT-60(80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy.

Unique design facilitates the evacuation of chips for extended life time.

獨特專利內藏式增壓機構最大挾持力40KN,夾持力歷久不衰退,適合各式軟硬工件加工。

搭配鋸齒鉗口夾持設計,均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

可配合各種工作台/小型機身適合5軸MC工作台，直立式MC，臥式MC及搭配圓盤加工機和相關機台。

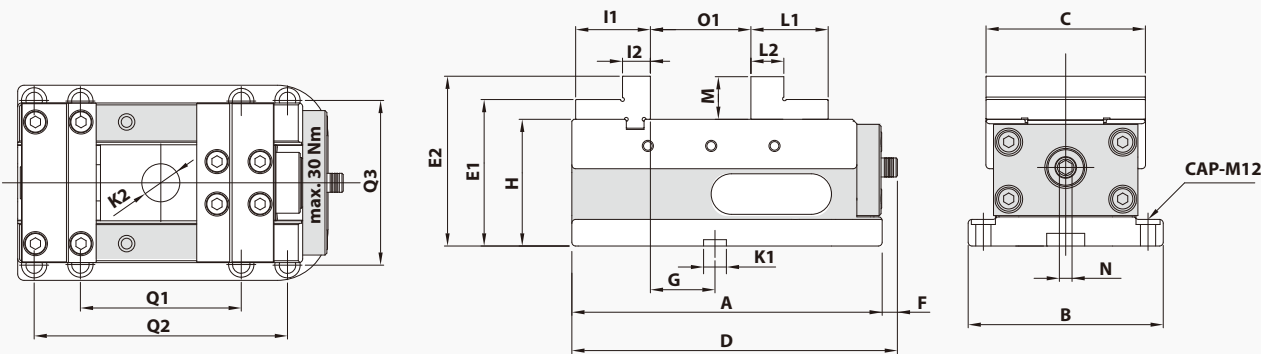
專利倍力機構擁有密封式防止鐵屑與切削液進入設計，增加倍力機構使用期限。

特殊防止工件上浮機構，使工件產生向下壓力效果，以消除傳統虎鉗操作時所產生之傾斜與偏向。

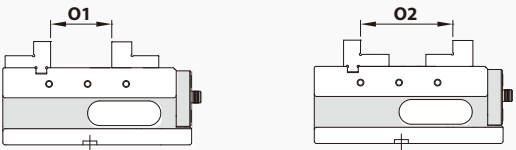
虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60（80,000PSI）抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；

獨特防屑設計，防止鐵屑進入虎鉗內部並且容易排出虎鉗內部，延長使用期限。

DIMENSIONS 尺寸圖



* 4 different clamping positions (outside jaws is optional accessories). * 提供您選擇四種不同夾持方式(外側鉗口為特殊附件)。



ITEM NO.	A	B	C	D	E1	E2	F	G	H	I1	I2	K1	K2	L1	L2	M	N	O1	O2	Q1	Q2	Q3	CLAMPING FORCE 夾持力	WEIGHT 重量
AEX-125G	245	154	126	257	116	134	12	51	100	59	22	18	Ø30	61	26	34	10	100	72-139	127	200	130	40KN	20kg
AEX-160G	317	196	152	329	145	180	12	83	120	65	30	18	Ø30	68	30	60	10	160	73-204	200	250	166	45KN	36kg

AEC
125, 160G
WELLOCK
5 AXIS MACHANICAL
VISE
5軸用MC 精密虎鉗



Steady Clamping Force mechanical booster, ,suitable for working on all kinds of hard and soft workpiece.

Can be used on any machine center! Small body size fit well with 5 Axis MC machine center,horizontal and vertical machine senter. It can work with rotary machine and related machine.

Patented Mechanical Booster is fully sealed against dust,chips and cutting fluid for extended life time.

Unique Anti-Lift mechanism ensures the workpiece does not deflect and lift.

Rigid and tensile ductile tool steel SKS3. Slide surface flame hardened to HS65° to maintain the accuracy.S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

Unique design facilities the eveacuation of chips.

扎實的夾持力，適合各式軟硬工件加工。

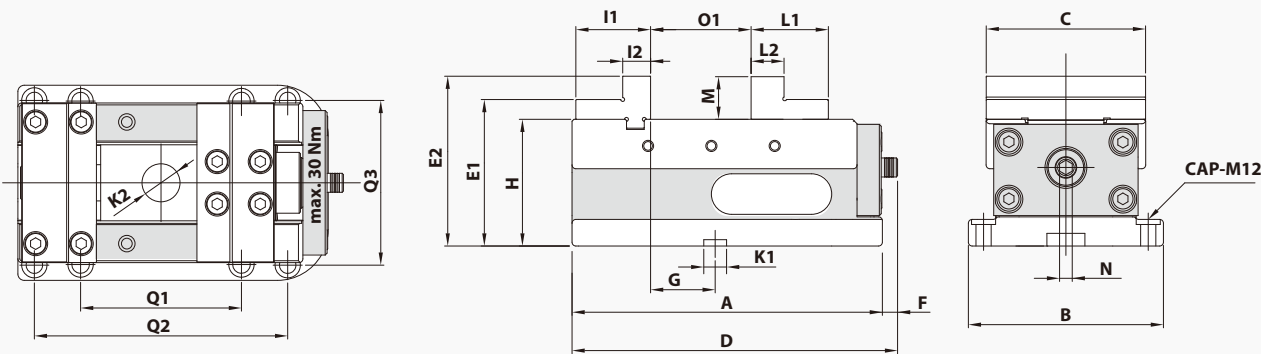
可配合各種工作台! 小型機身適合5軸MC工作台，直立式MC，臥式及搭配圓盤加工機和相關機台。

特殊防止工件上浮機構，使工件產生向下壓力效果，以消除傳統虎鉗操作時產生之傾斜與偏向。

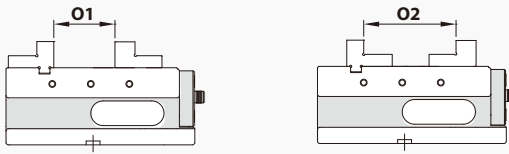
虎鉗本台使用強而有力的SKS3工具鋼抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HRC65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

獨特防屑設計，防止鐵屑進入虎鉗內部並且容易排出虎鉗內部，延長使用期限。

DIMENSIONS 尺寸圖



* 4 different clamping positions (outside jaws is optional accessories). * 提供您選擇四種不同夾持方式(外側鉗口為特殊附件)。



ITEM NO.	A	B	C	D	E1	E2	F	G	H	I1	I2	K1	K2	L1	L2	M	N	O1	O2	Q1	Q2	Q3	CLAMPING FORCE 夾持力	WEIGHT 重量
AEC-125G	245	154	126	262	116	134	17	51	100	59	22	18	Ø30	61	26	34	10	102	72-139	127	200	130	/	18kg
AEC-160G	317	196	152	334	143	178	17	83	120	61	26	18	Ø30	64	26	58	10	160	73-204	200	250	166	/	34kg

AQM-160G *Workholding*
AIR POWER VISE
空壓精密虎鉗



Most suitable for mass production which need quick machine, such as milling VMC and HMC, expert work station.

This vise is adopting employs an air actuated cylinder. Circuiting progressively to make automation.

Safety locking mechanism for unexpected termination of air supply. After pneumatic clamping the workpiece will be clamped firmly even without the air supply.

Humanistic design. Easy ON/OFF switch control for pneumatic operation. The shifting speed is only 1.5 sec. With safety range 5mm. The optional electric control for automatic and FMS system is available.

AQM are all match vise, you could set up several of AQM together to operate with only one air source supply. 3 operate positions. Six faces of vise body has been ground and pre-set the holding slot, it can be processed vertically without jig block.

Even the air source at low pressure 8kg/cm2 which can be achived super hi-clamping force 90KN, and the 0-35KN clamping force can be adjusted freely by regulator.

Unique Out-jaw design increase the clamping capacity.

向量式(LOCKWELL)大開口空油壓快速精密虎鉗，適用於立/臥式綜合銑切削加工中心、專用機、龍門銑床等大量生產且需快速加工上使用。

本虎鉗是採用純氣壓方式設計，只需簡單接上空壓源，即可達成自動化且快速和高夾持力功能。

本虎鉗有安全止逆裝置設計，當空壓源在低點或是停止時，有自動補壓及穩壓之功能，安全性極高。

人性化設計，只須手動開關控制虎鉗開關，開關速度只需1.5秒，夾持安全距離可能5mm，當然也可搭配自動化無人生產系統來做特殊設計。

同高定寸規格，可搭配多台並列使用(同一空壓源)；也可立、側、臥三用，本體六面磨光並預留壓板槽，不須治具板，即可直立加工。

空壓源8kg/cm2之低壓源，即可達90KN之超高夾持力，而夾持力從0-35KN可藉由空壓調節閥自由調整設定。

首創獨特外鉗口設計，加大夾持範圍。

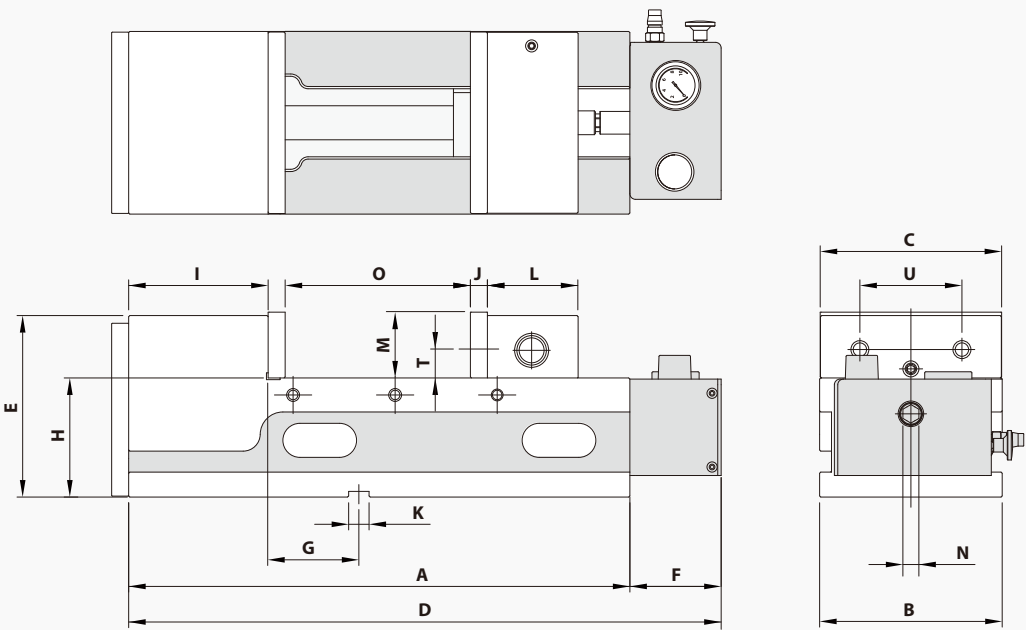
Lockwell Anti-Lift mechanism(patented) ensures the workpiece does not deflect and lift.

Rigid and tensile ductile iron FCT-60(80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been carburizing heat treated the gardness to HRC54°.

向量式(LOCKWELL)專利設計，使工件產生向下壓力效果，以消除傳統虎鉗操作時所產生之傾斜與偏向。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60 (80,000PSI) 抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	WEIGHT 重量
AQM-160G	442	161	160	522	160	80	80	105	123	15	18	80	58	14	208	25	90	60Kg

AMP
100, 150, 160, 165, 180,
200, 300
WELLOCK AIR HYDRAULIC
POWER VISE

角固式 空油壓快速精密虎鉗

Most suitable for mass production which need quick machining, such as milling HMC & VMC, expert work station.

This vise is adopting the reciprocating pneumatic motor which R&D by inhouse and that employs an air actuated cylinder. Circuiting progressively to make automation, no need the R.F.L unit to filter the moisture, the sole character is superior than other brand in the market.

Safety locking mechanism for unexpected termination of air supply. After pneumatic clamping the workpiece will be clamped firmly even without the air supply.

Humanistic design. Easy ON/OFF switch control for pneumatic operation. The shifting speed is only 1.5 sec. with safety range: 8mm. The optional electric control for automatic and FMS system is available.

AMP are all match vise, you can set up several of AMP together to operate with only one air source supply. 3 operate positions. Six faces of vise body has been ground and pre-set the holding slot, it can be processed vertically without jig block.

Even the air source at low pressure 8kg/cm2 which can be achieved super hi-clamping force 90KN, and the 0~90KN clamping force can be adjusted freely by regulator.

Unique Out-jaw design increase the clamping capacity.

Wellock Semi-spherical segment eliminate deflection and lift.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.



角固式(WELLOCK)空油壓快速精密虎鉗，適用於立/臥式綜合銑切削加工中心、專用機、龍門銑床等大量生產且需快速加工上使用。

本虎鉗是採用往復式空壓馬達設計，以氣壓連續推動油路方式，只需簡單接上空壓源，即可達成自動化且快速和高夾持力功能，也不需要三點組合來過濾水氣亦無漏油之虞。

本虎鉗有安全止逆裝置設計，當空壓源在低點或是停止時，有自動補壓及穩壓之功能，安全性極高。

人性化設計，只須手動開關控制虎鉗開關，開關速度只需1.5秒，夾持安全距離可達8mm，當然也可搭配自動化無人生產系統來做特殊設計。

同高定寸規格，可搭配多台並列使用(同一空壓源)；也可立、側、臥三用，本體六面磨光並預留壓板槽，不須治具板，即可直立加工。

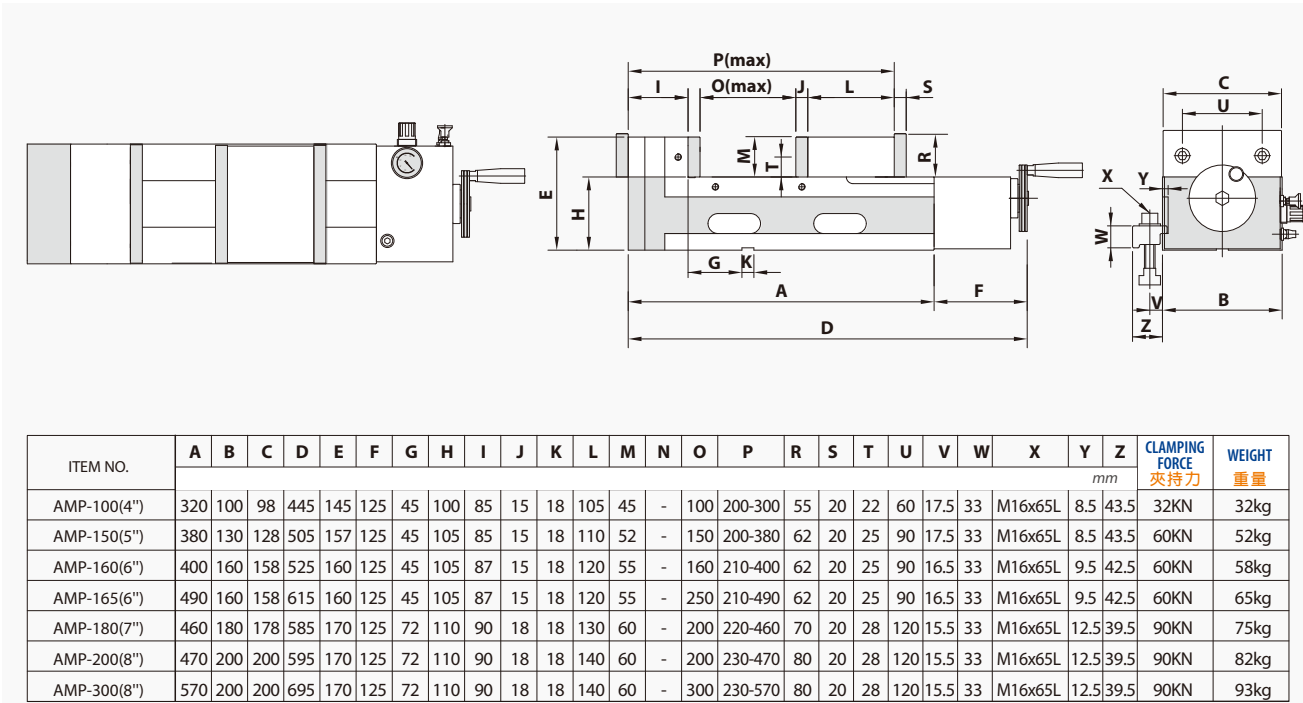
空壓源8kg/cm2之低壓源，即可達90KN之超高夾持力，而夾持力從0-90KN可藉由空壓調節閥自由調整設定。

首創獨特外鉗口設計，加大夾持範圍。

角固式(WELLOCK)半圓球可產生角固下鎖之力，可消除鉗口板上浮和工件傾斜。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60(80,000PSI)抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

DIMENSIONS 尺寸圖



AOM-200 *Workholding*

EXTENSION
MC MECHANICAL
POWER VISE

延長式 倍力增壓虎鉗



Extension MC Mechanical Power vise with large opening and Lockwell Anti-Lift Mechanism is most suitable for BMC & VMC & HMC. This vise owns 3 patents.

Force Adjustable System (patented) makes the force setting easier & steadier, moreover, it has constant pressure function & over pressure protection.

Mechanical Booster (patented) provides a steady clamping force and inside Disc-Spring to against shocks and vibrations while operation.

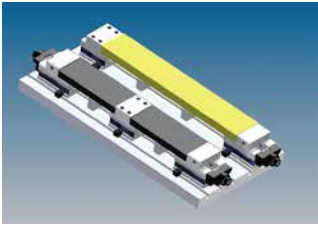
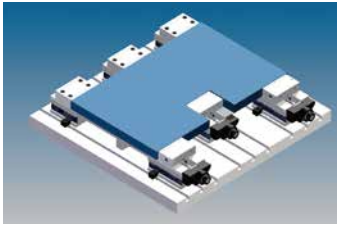
Lockwell Anti-Lift mechanism (patented) ensures the workpiece does not deflect and lift.

This vise is suitable for huge or extension workpieces and can be matched.

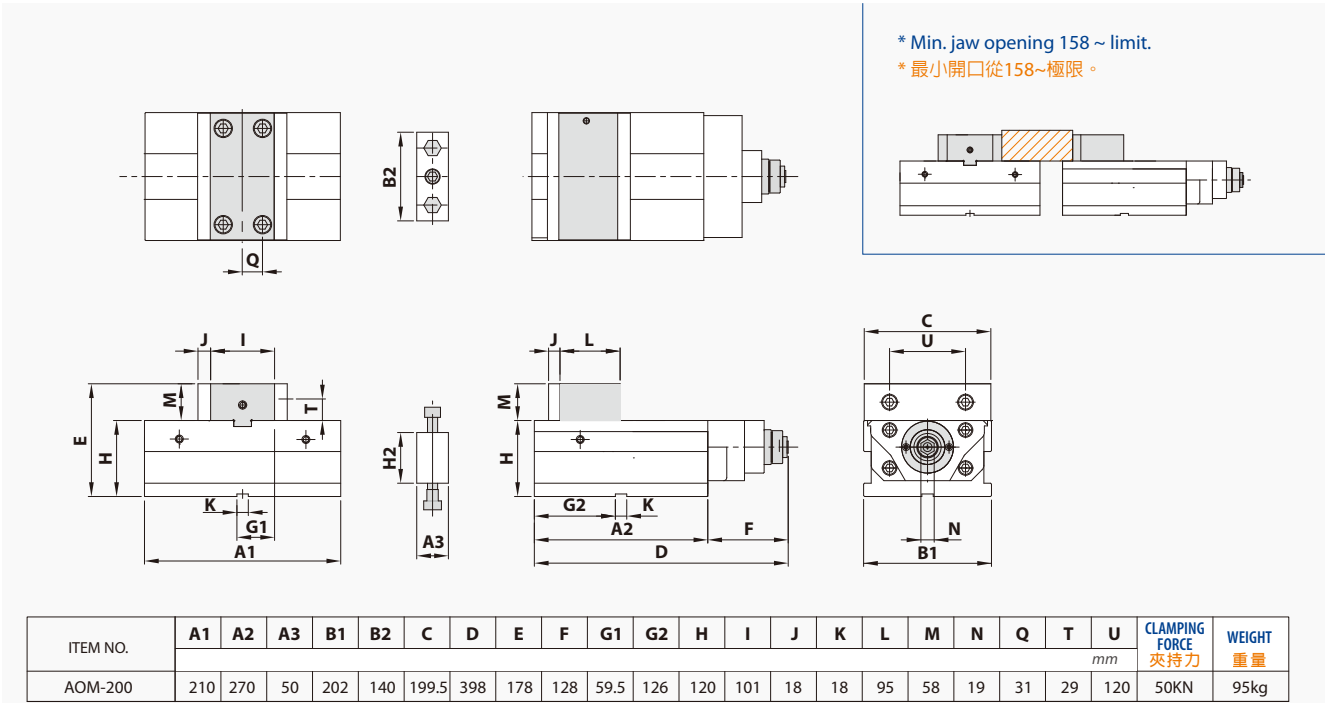
Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

The stationary unit or power unit order is acceptable.

CLAMPING
EXAMPLES
應用範例



DIMENSIONS 尺寸圖



ACB
055, 075, 125, 215, 325
PERMANENT MAGNETIC
CLAMPING BLOCK
ACB SERIES

磁性治具系統



Can do 5 Face Machining, Increase Suction, Improve Efficiency

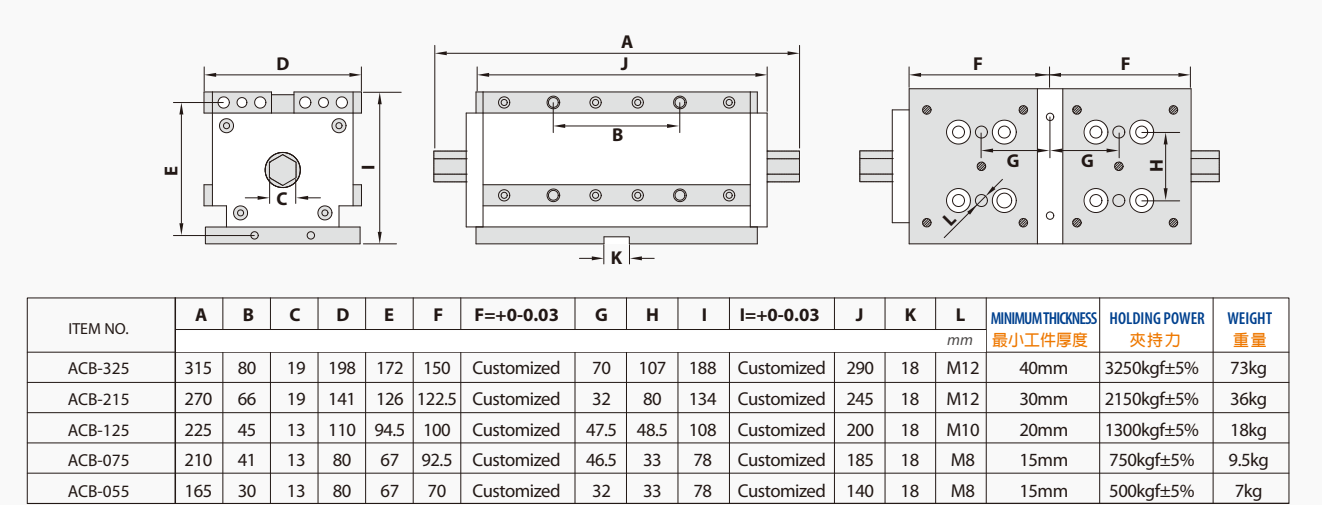
- 1. The all new model Magnetic Clamping Block ACB Series are a new sense of clamping way for metal working on CNC Machining Center and Milling Machine in quick clamp workpieces. It can fit well with 5 face machining. You can do drilling、tapping、slotting in one time. Also reduce lots of steps, costs and improve efficiency
- 2. Free to set up position, numbers and distance of Magnetic Clamping Block according to the size of workpiece.
- 3. The ACB Series including changeable Induction Soft Block. It can be revised the surface to be 100% accuracy on the machine for clamp workpieces. Can be also cutting, drilling, tapping and slotting directly to the Induction Soft Block during machining workpiece. Multi-function of Induction Soft Block, the user can make it by themselves according to workpiece required.

- 1. Most suitable for medium and large size of workpiece machining on milling machine and CNC machining center.
- 2. Changeable Induction Soft Block can do multi-function clamping.
- 3. Minimum size of workpiece required as bigger than an area of two Magnetic Clamping Blocks.
- 4. The Magnetic Clamping Blocks are not suitable for small workpiece clamping.

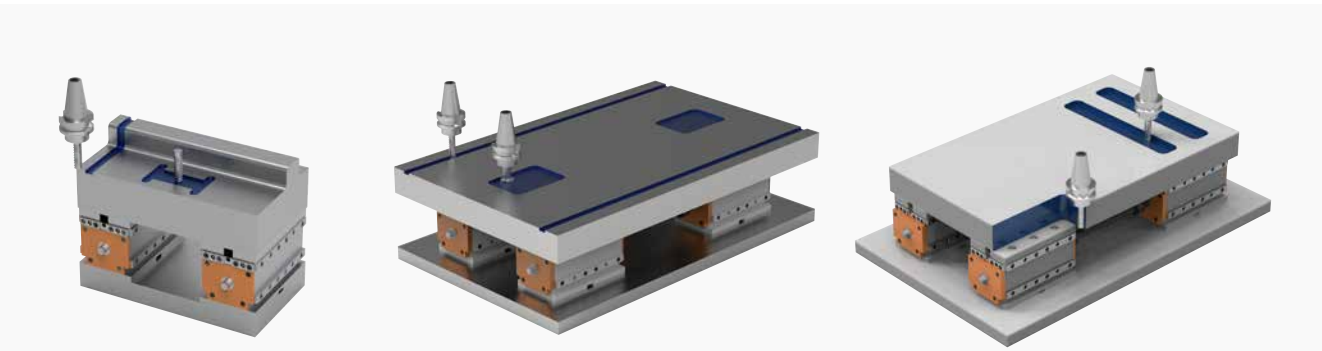
STANDARD ACCESSORIES 標準附件



DIMENSIONS 尺寸圖



WORKING EXAMPLE 加工示範



"ON" POSITION
"ON"位置

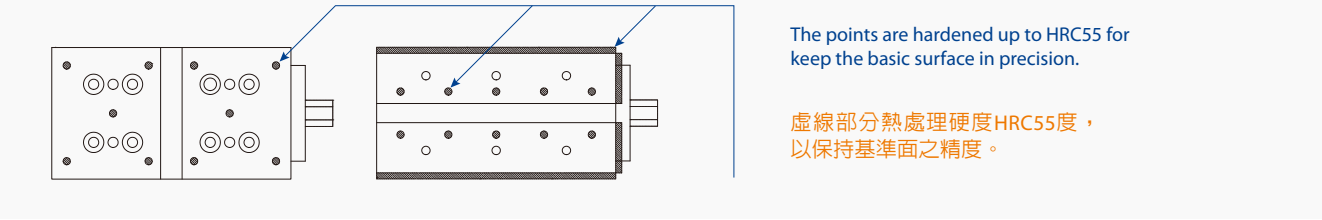
"OFF" POSITION
"OFF"位置

Note:

- 1. Please always make sure the Switch was in ON position before machining.
- 2. The principle of Magnetic Clamping Blocks is magnetism of N.S. pose, so please always put the workpiece in the middle of top clamping range.
- 3. The Magnetic Clamping Blocks are not suitable for non-magnetic material, such as brass, copper, aluminum and stainless steel, etc. Minimum size of workpiece required as bigger than an area of two Magnetic Clamping Blocks.

注意事項:

- 1. 夾持工件加工前,請確認已轉至"ON"位置。
- 2. 本磁力工作台之原理為磁極N.S轉換磁場,故 置放工件夾持時,請將工件放於磁力工作台兩側中間,如將工件放於單側,則工件無法持。
- 3. 本磁力工作台不適用於小型工件之夾持加工, 或非導磁材料,如:銅、鋁、不鏽鋼及合金材料,其最小工件之要求為2台磁力工作台面積之工件。



PARTS 加工配件

Customer can be makes switch connector by standard hexagon steel bar themselves for depends on length required. The dimension of hexagon bar required as ACB 215,325--19mm / ACB 125,075,055--13mm

磁性治具系統-永磁式工作台 ACB系列
客戶可依長短需求以現成六角棒自行製作連接桿 KACB-215,325--19MM 六角圓棒。

Maximum & Minimum distance required.
ACB-125,075,055--13MM 六角圓棒最大與最小間距要求:

ITEM NO.	ACB-325	ACB-325	ACB-325	ACB-325	ACB-325
SIDE DISTANCE 側邊間距	MAX 最大	100 mm	100 mm	60 mm	25 mm
	SMALLEST 最小	1000 mm	1000 mm	600 mm	400 mm
FRONT AND BACK DISTANCE 前後距離	MAX 最大	70 mm	70 mm	40 mm	40 mm
	SMALLEST 最小	600 mm	500 mm	300 mm	200 mm

Customer can be makes special induction blocks themselves for depends on the workpiece and application required.

導磁軟爪: 客戶可依照工件形狀自行製作特殊軟爪 (可導磁材料皆可使用)

DOUBLE STATION VISE
雙鵬向量式虎鉗

CLAMPING FORCE EQUALIZATION &
AUTOMATICALLY RETURN MECHANISM

夾持力自動補償機構&自動定位系統

Lockwell Double Station Vise increases the efficiency and productivity of CNC machine. Double station could clamp two dissimilar workpieces with same force at a time. For save time, movable jaw designed to automatically return to correct position. One of the movable jaws opened while the other one opened to the position you set. Moreover, double station could be change to single station to meet your enquiry by fixed one movable jaw. 6 different clamping positions. You could change the standard jaws into soft jaws to make your own vise.

Double station could clamp two dissimilar workpieces with same force at a time and provides 6 different clamping positions.

Clamping Force Equalization (patented) ensures same clamping force to clamp two different size/shape workpieces.

Automatically Return Mechanism (patented) save the work change time.

Lockwell Anti-Lift Mechanism (patented) ensures the workpiece does not deflect and lift.

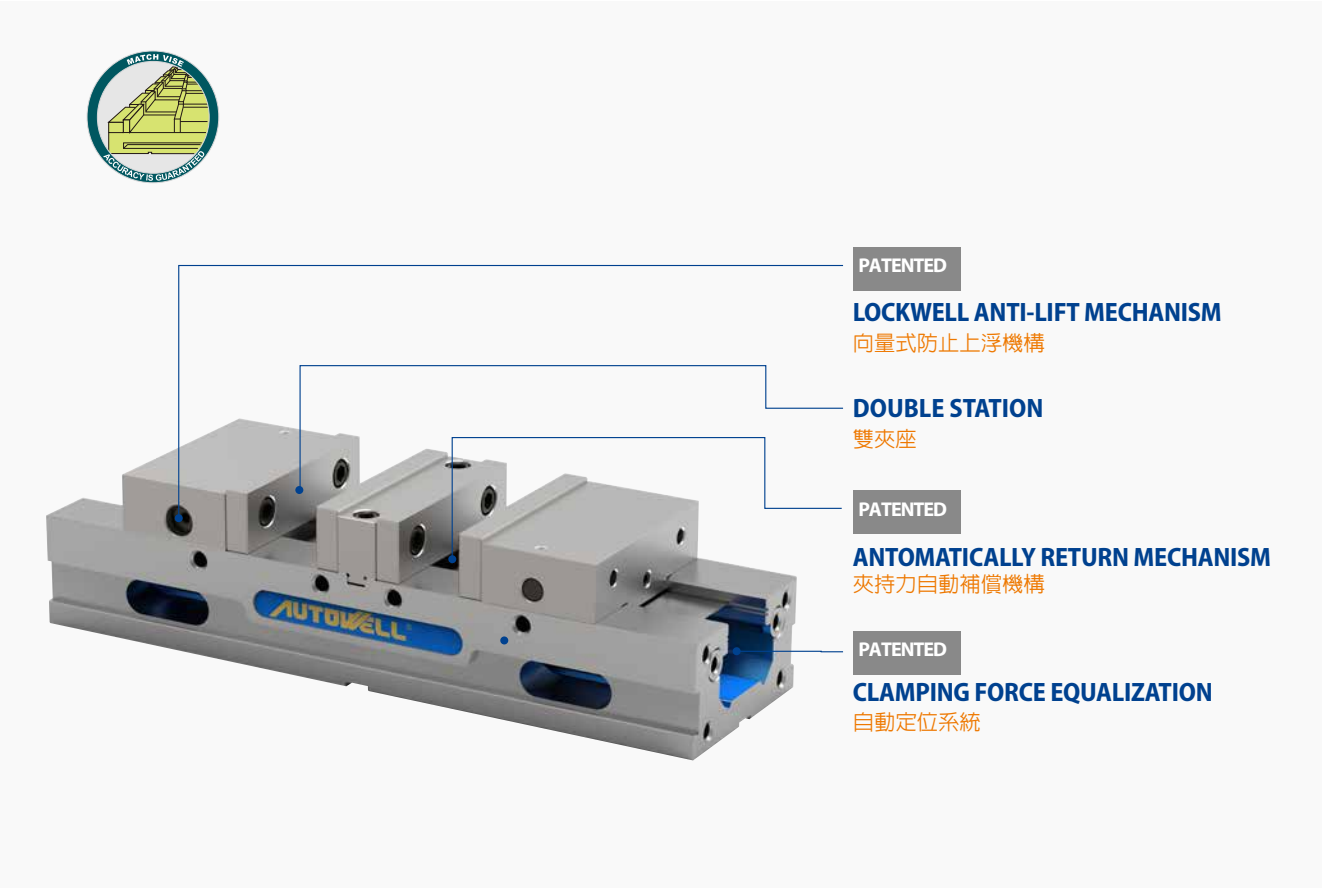
雙鵬系列虎鉗擁有兩項專利，提高CNC設備的利用率並提升生產力。雙夾座可在同時以相同夾持力夾持兩個相同或不同尺寸之工件，達多件一致性的高精度；活動顎採用鬆開後自動定位裝置設計，操作鬆開時，其一活動顎會先稍微退開，待其定住後，另一活動顎才會退開。此外為因應工件尺寸不同之需求，此虎鉗更可變換為單夾座，僅需固定一端活動顎即可定位夾持大工件；夾持變化方式多達六種。可更換使用鋁製軟爪，訂做一個專供您模具使用的專屬虎鉗。

雙夾持機構：雙開口虎鉗可同時夾持兩個大小不同之工件，且提供六種不同夾持方式。

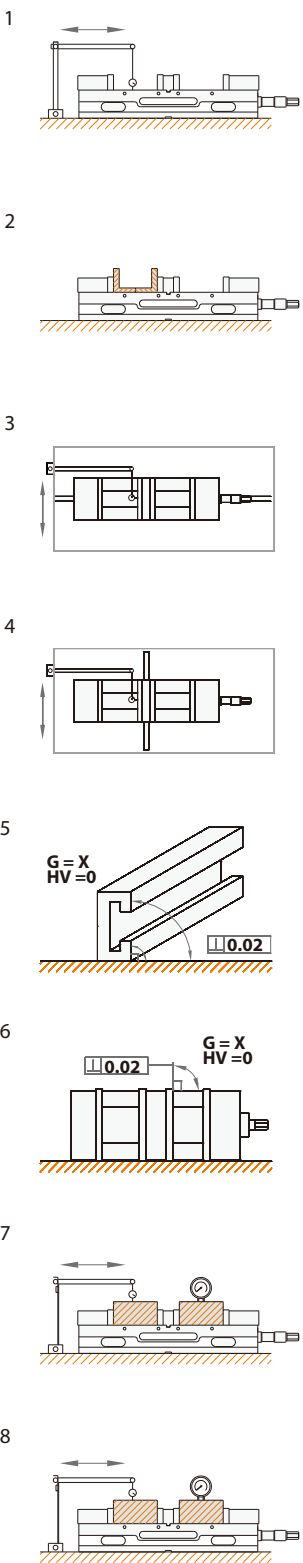
專利夾持力自動補償機構：此機構可同時夾持兩種不同大小或是形狀之工件，大大提升生產效率，另外，因為擁有自動補償(非同動裝置)之功能，兩工件是同時夾緊，所以雙開口雙夾持力是相同的。

專利自動定位機構：可節省鬆開工件及準備放置工件的寶貴時間。

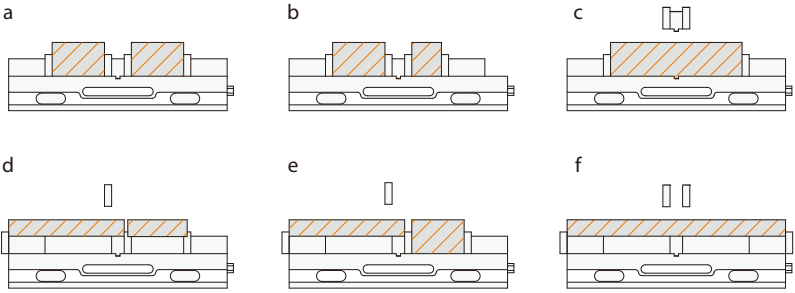
向量式防止上浮機構：當作業時，使其工件產生向下壓力效果，以消除傳統虎鉗操作時所產生的傾斜與偏向。



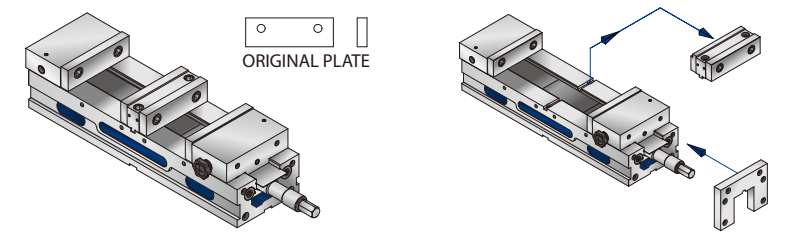
STATIC ACCURACY
精度表



6 DIFFERENT CLAMPING POSITIONS
6種夾持方式示意



CHANGE SAMPLE OF STATION
夾持座變換



Using the current vise opening when the workpiece dimension is between 0-125mm & 0-90mm.

Taking out the fixed jaw and insert a movable plate (tighten by 6pcs screws) when the workpiece dimension is between 125-315mm (4.98"-12.3").

現有之兩夾持座分別可夾持0-125mm及0-90mm之工件

移除固定顎後，裝上活動板(需鎖上6支螺絲以固定)固定一活動顎，即可使用另一活動顎夾持125-135mm之工件。

DOUBLE CLAMP VISE SYSTEM
雙鵬虎鉗

NO.	INSPECTION ITEMS (PER 100 MM) 檢查項目 (每100mm)		ALLOWANCE 容許值 (mm)	
			AUTOWELL	JIS. CLASS
1	PARALLELISM	Running face to bottom of bed 本台滑動面對底面之平行度	0.01	0.015
2	SQUARENESS	Between running face and jaw plate 鉗口面對滑動面之垂直度	0.01	0.03
3	SQUARENESS	Keyways on bottom of bed to jaw plate 鉗口面對本台底面T型槽之垂直度	0.015	0.02
4	PARALLELISM	Keyways on bottom of bed to jaw plate 鉗口面對本台底面T型槽之平行度	0.01 A	0.02
5	SQUARENESS	Both sides to running face 雙側面對滑動面之垂直度	0.02	0.02
6	SQUARENESS	Both sides to fixed jaw plate 雙側面對固定鉗口面之垂直度	0.02	0.02
7	PARALLELISM	Running face of the test block to bottom of bed 測試塊夾緊後，滑動面對本台底面之平行度	0.015	0.02
8	PARALLELISM	Lift can be controled when clamping test 測試塊夾緊後，對本台底面之上浮量	0.015	0.03

Basic on global market, our company start producing MC serious type of vise on 1986 and we keep our vise dimensions as same since then. There is no fitment or alignment problem between our old and new MC vise.

同高定寸：針對全球市場，本公司於1986年開始生產MC系列虎鉗，並全部保持一致尺寸；讓您不論是在過去、現在或未來所購買的MC系列虎鉗均可多台並列使用。

A * For total jaw height * 鉗口總高

TLD-40, 60G/HV

Workholding

NEW LOCKWELL
DOUBLE STATION VISE

新型 雙鵬式虎鉗



Double station could clamp two dissimilar workpieces with same force at a time and provides 6 different clamping positions.

Clamping Force Equalization (patented) ensures same clamping force to clamp two different size/shape workpieces and avoid deflection and lift.

Lockwell Anti-Lift Mechanism (patented) & Automatically Return Mechanism (patented) ensures the workpiece does not deflect and lift.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

Unique design facilitates the evacuation of chips.

U.S.A. patented.

雙夾持機構-雙開口可自由調整並同時夾持兩個大小不同之工件，且提供六種不同夾持方式。

專利夾持力自動補償機構與自動開口定位機構使其在同時夾持相同或是不相同工件時夾持力相同，防止工件變形與傾斜。

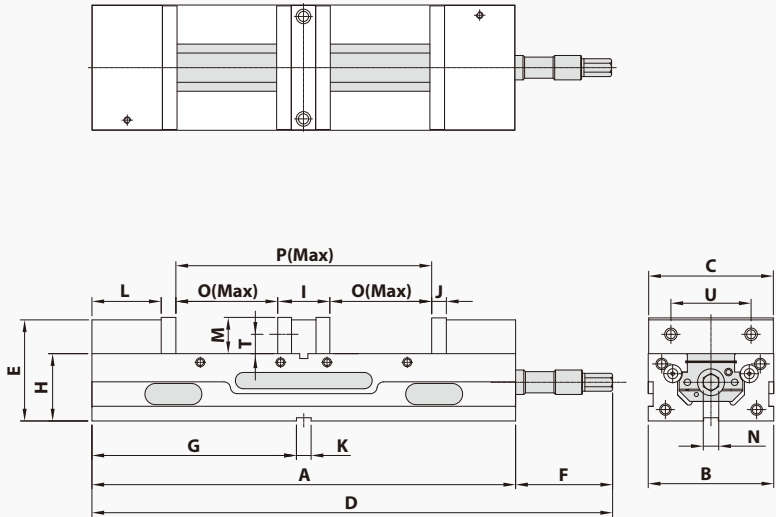
向量式(LOCKWELL)專利設計，使工件產生向下壓力效果，以消除傳統虎鉗操作時所產生的傾斜與偏向。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60(80,000PSI)抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

獨特防屑設計，防止鐵屑進入虎鉗內部，延長使用期限。

擁有美國專利認證。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	T	U	WEIGHT 重量
																		mm	
TLD-40G/HV	405	104	102	459	96.5	54	27.5	63.5	55	15	18	69	38	14	90	235	17.5	63.5	20kg
TLD-60G/HV	520	154	152	536	124.05	16	33	82.55	66	18	18	86.5	44.5	19	125	316	23.8	98.4	52kg

ALD-60G/HV

Workholding

LOCKWELL
DOUBLE STATION VISE

雙鵬式虎鉗



Double station could clamp two dissimilar workpieces with same force at a time and provides 6 different clamping positions.

Clamping Force Equalization (patented) ensures same clamping force to clamp two different size/shape workpieces and avoid deflection and lift.

Lockwell Anti-Lift Mechanism (patented) & Automatically Return Mechanism (patented) ensures the workpiece does not deflect and lift.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body.

Slide surface flame hardened to HS65° to maintain the accuracy.

S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

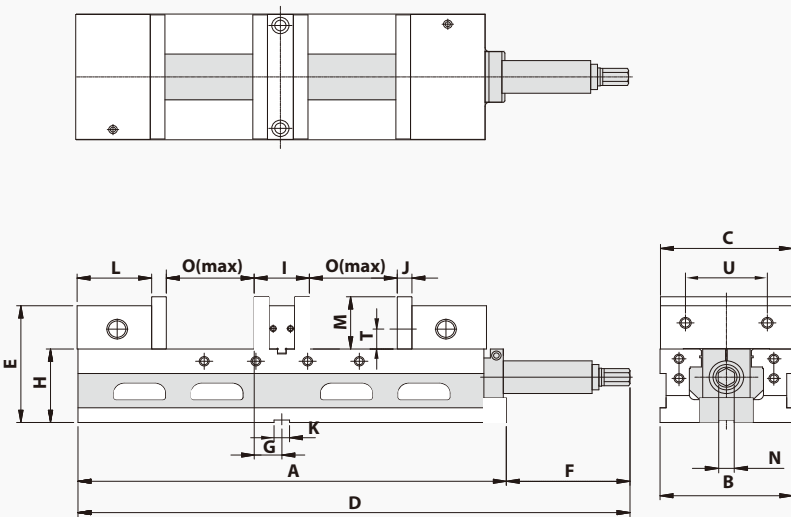
雙夾持機構-雙開口可自由調整並同時夾持兩個大小不同之工件，且提供六種不同夾持方式。

專利夾持力自動補償機構與自動開口定位機構使其在同時夾持相同或是不相同工件時夾持力相同，防止工件變形與傾斜。

向量式(LOCKWELL)專利設計，使工件產生向下壓力效果，以消除傳統虎鉗操作時所產生的傾斜與偏向。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60(80,000PSI)抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	WEIGHT 重量
																	mm	
ALD-60G/HV	497	154	152	610	143	113	32	90	64	17	18	86.5	58	19	34-102	32	95	63.5kg

HLD-60G/HV

Workholding



LOCKWELL
SELF-CENTERING
MACHINE VISE

同動求心虎鉗

Lockwell Self-Centering Vise is most suitable for VMC & HMC.

Tolerance of center of workpiece clamp position and vise body within $\pm 0.015\text{mm}$.

Lockwell Anti-Lift mechanism (patented) ensures the workpiece does not deflect and lift.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.

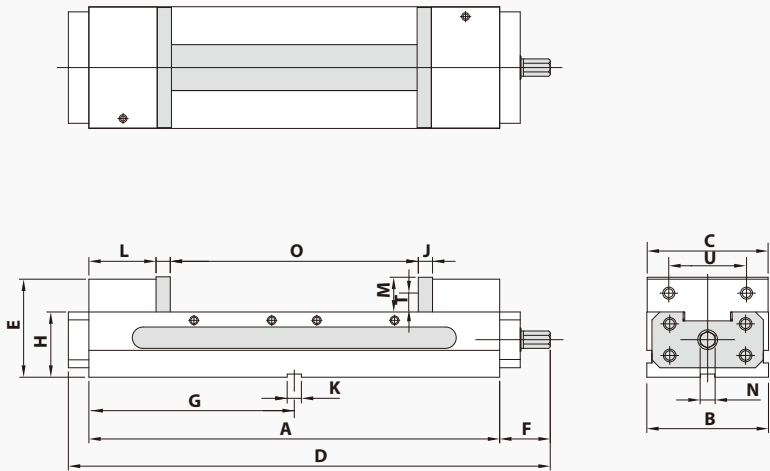
同動求心虎鉗適用於立臥式CNC銑床之精密加工。

工件夾持與本台中心位置公差 $\pm 0.015\text{mm}$ 以內。

向量式防止上浮機構，當作業時，使其工件產生向下壓力效果，以消除傳統虎鉗操作時所產生的傾斜與偏向。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60(80,000PSI)抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

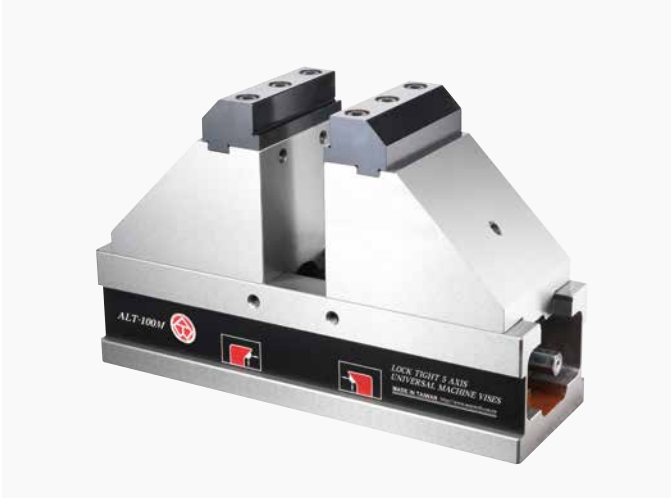
DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	T	U	WEIGHT 重量
HLD-60G/HV	520	154	152	610	124.05	64	260	82.55	18	18	86.5	44.5	19	58~314	23.8	98.4	52kg

ALT-100 Series

Workholding



WELLOCK
5 AXIS
MACHINE VISE

雙鎖式 求心精密虎鉗

ALT is designed for 5 axis machine center. It provides higher structure to dodge interference of spindle. Prevent the workpiece loose from machining vibration. Anti-Lift mechanism ensures workpiece does not lift. Both jaws can move in the same time to shorten the distance.

Fit well with 5 Axis MC machine center, horizontal and vertical machine center. It can work with rotary machine and related machine.

Wellock Semi-spherical segment eliminate deflection and lift.

Rigid and tensile ductile iron FCT-60(80,000PSI) vise body.

Slide surface flame hardened to maintain the accuracy and precision.

Tolerance of center of workpiece clamp position and vise body within $\pm 0.015\text{mm}$.

ALT是專為第五軸加工機設計，採用加高迴避主軸干涉防止加工中震動夾持鬆脫設計，固鎖式原理防止工件上浮，雙動方式快速縮短移動距離。

ALT適合5軸MC工作台，直立式MC，臥式MC及搭配圓盤加工機和相關機台

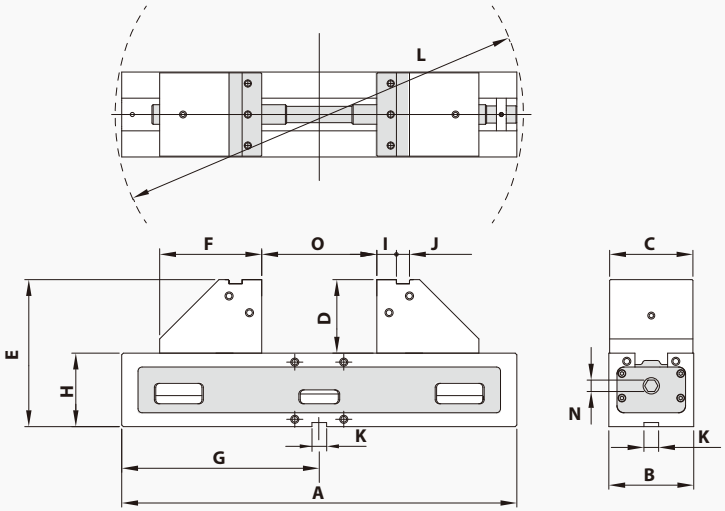
角固式(WELLOCK)半圓球可產生角固下鎖之力，可消除鉗口板上浮和工件傾斜。

虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60抗張力強，不易變形。

本台滑動面均經高週波硬化熱處理，強化滑動面的耐磨性與精度。

工件夾持與本台中心位置公差 $\pm 0.015\text{mm}$ 以內。

DIMENSIONS 尺寸圖



* 4 different clamping positions. * 提供您選擇三種不同夾持方式。

ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P1	P2	P3	CLAMPING FORCE 夾持力	WEIGHT 重量
																		mm	
ALT-100S	280	104	102	90	180	125	140	90	24	16	18	300	14	0-30	-	-	10-40	20KN	17kg
ALT-100M	324	104	102	90	180	125	162	90	24	16	18	350	14	0-74	0-44	12-44	10-84	20KN	20kg
ALT-100L	484	104	102	90	180	125	242	90	24	16	18	500	14	10-232	0-200	12-200	10-210	20KN	30kg

ALT-75 Series

Workholding

WELLOCK 5 AXIS MACHINE VISE

雙鎖式 求心精密虎鉗



ALT is designed for 5 axis machine center. It provides higher structure to dodge interference of spindle. Prevent the workpiece loose from machining vibration. Anti-Lift mechanism ensures workpiece does not lift. Both jaws can move in the same time to shorten the distance.

Semi-spherical segment eliminate lifting while machining.

Ductile iron SKS3 rigid and tensile vise body.

Slide surface flame hardened to maintain the accuracy.

Tolerance of center of workpiece clamp position and vise body within 0.01mm.

ALT是專為第五軸加工機設計，採用加高迴避主軸干涉及防止加工中震動夾持鬆脫設計，固鎖式原理防止工件上浮，雙動方式快速縮短移動距離。

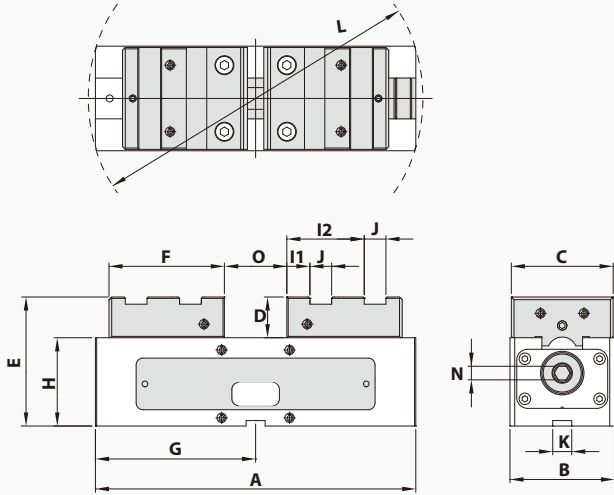
角固定半圓球可產生角固定鎖之力，防止工件上浮及偏斜。

虎鉗本台使用強而有力的SKS3工具鋼，抗張力強，不易變形。

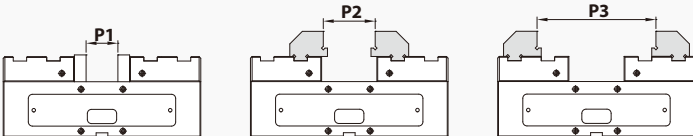
本台滑動面均經高週波硬化熱處理，強化滑動面的耐磨性與精度。

工件夾持與本台中心位置公差0.01mm以內。

DIMENSIONS 尺寸圖



* 4 different clamping positions. * 提供您選擇三種不同夾持方式。



ITEM NO.	A	B	C	D	E	F	G	H	I1	I2	J	K	L	N	O	P1	P2	P3	CLAMPING FORCE 夾持力	WEIGHT 重量
ALT-75S	196	77	75	30	95	85	98	65	17	57	16	14	210	10	30	-	26	106	20KN	8kg
ALT-75M	236	77	75	30	95	85	118	65	17	57	16	14	250	10	70	40	66	146	20KN	10kg

ACT-120

Workholding

WELLOCK 5 AXIS MACHINE VISE

求心精密虎鉗



Fit well with 5 Axis MC machine center, horizontal and vertical machine center. It can work with rotary machine and related machine.

Vise body is made of alloy steel. Slide surface flame hardened to HS65° to maintain the accuracy.

Superior tool steel SCM440 jaw-plate has been carburizing heat treated the gardness to HRC54°.

Slide surface flame hardened to maintain the accuracy and precision.

Tolerance of center of workpiece clamp position andc vise body within +/-0.005mm.

ACT適合5軸MC工作台，直立式MC，臥式MC及搭配圓盤加工機和相關機台

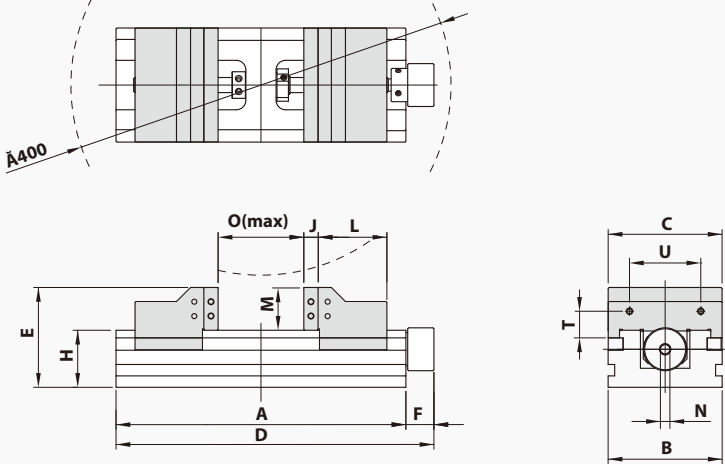
虎鉗本體材質為合金鋼，本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度

鉗口使用高級工具鋼(SCM440),再經滲碳熱處理使其硬度達HRC54°以上。

本台滑動面均經高週波硬化熱處理，強化滑動面的耐磨性與精度。

工件夾持與本台中心位置公差+/-0.005mm以內。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	WEIGHT 重量
ACT-120G	305	120	119.8	335	105	30	0	60	0	15	0	72	45	10	130	20	75	20kg

AZV-310,313,317,321
516,521,526,531

WELLOCK
5 AXIS
MACHINE VISE

求心精密虎鉗

Workholding



Fit well with 5 Axis MC machine center, horizontal and vertical machine center. It can work with rotary machine and related machine.

Vise body is made of steel SCM440. It has been carburizing heat treated to maintain the accuracy and precision.

Double-sided serrated jaws, clamping edge is required to be 3 mm, to save a lot material.The accuracy of repeatability within $\pm 0.015\text{mm}$.

Superior tool steel SCM440 jaw-plate has been carburizing heat treated the gardness to HRC54° for excellent stability.

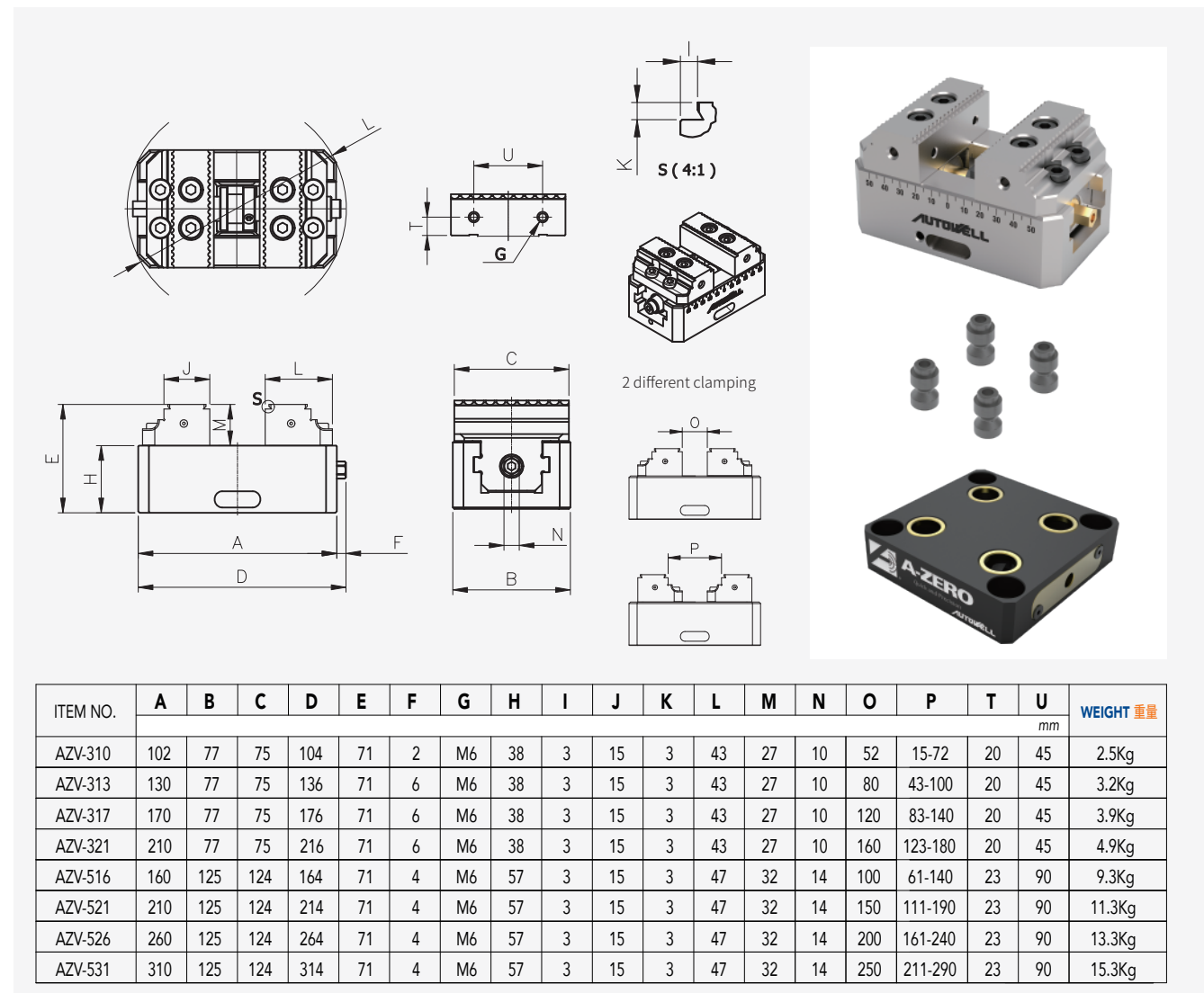
本虎鉗機身適合5軸MC工作台，直立式MC，臥式MC及搭配圓盤加工機和相關機台。

本台使用強而有力的SCM440工具鋼且經過滲碳處理，抗張力強，不易變形，耐磨性與精度堅固耐用的錶殼堅固耐用，使用壽命長。

本虎鉗具有雙面固定的鋸齒鉗口，鋸齒夾持邊緣要求為3 mm，可確保理想的夾持工件並節省大量材料且重複求中心精度 $\pm 0.015\text{mm}$ 。

鉗口使用高級工具鋼(SCM440)，再經滲碳熱處理使其硬度達HRC54°以上，具有最大的穩定性。

DIMENSIONS 尺寸圖



CLAMPING UNIT

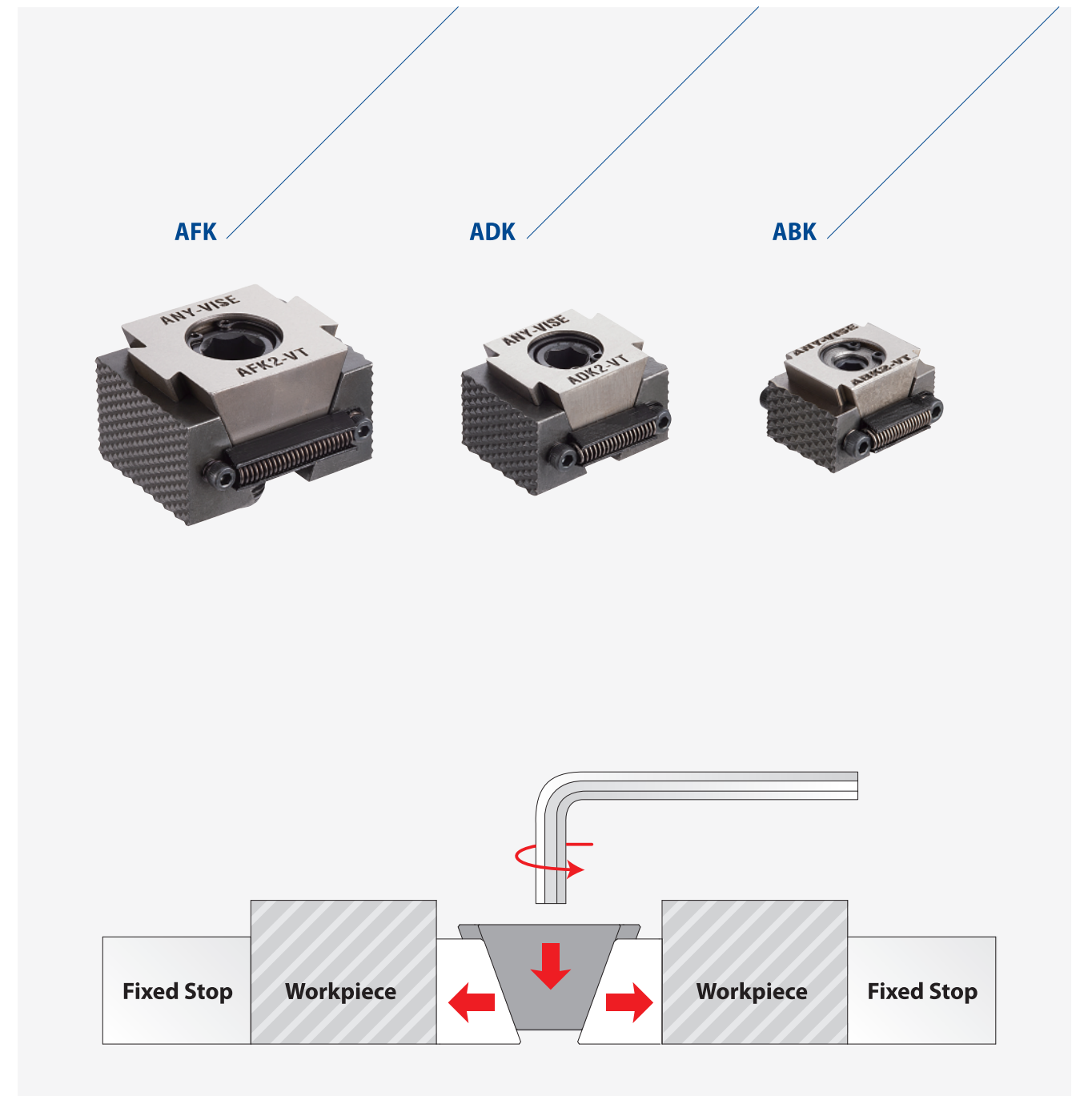
虎鉗單元

new!

PATENTED

The Any-Vise® is the best cost efficient for your machining process.
Any-Vise® also apply balanced workholding pressure on the any work piece.
Easiest, Convenient, Strongest and Accurate for the Any-Vise®.

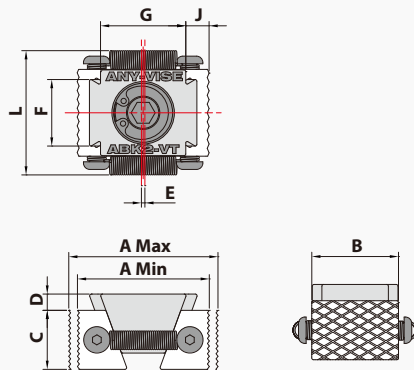
Any-Vise® 是您加工過程中最具成本效益的。
Any-Vise® 還可以在任何工件上施加均衡的工件夾持壓力。
Any-Vise® 最簡單，便捷，最強大和最準確。



SERRATION-VISE 鋸齒夾鉗

ABK2-VT

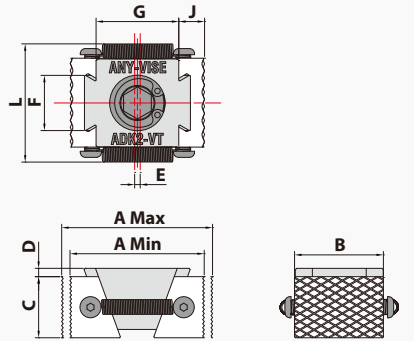
DIMENSIONS 尺寸圖



ITEM NO.	Min	Optimum	Max	B	C	D	E	F	G	J	L	METRIC BLOT 公差	PRESSING FORCE 夾持力	HARDNESS HRC HRC 硬度	WEIGHT 重量
ABK2-VT	38	40	42	25.4	17.3	5.5	1	19.3	25.6	7.8	40.5	M8x1.25P-20L	25KN	52-56	80g

ADK2-VT

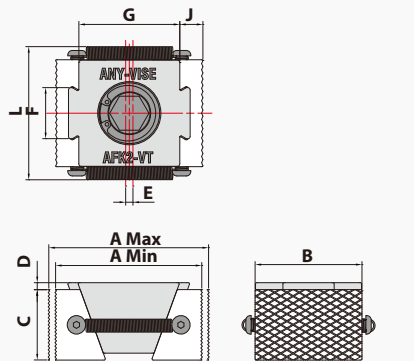
DIMENSIONS 尺寸圖



ITEM NO.	Min	Optimum	Max	B	C	D	E	F	G	J	L	METRIC BLOT 公差	PRESSING FORCE 夾持力	HARDNESS HRC HRC 硬度	WEIGHT 重量
ADK2-VT	44	46	48	32.5	22.5	9	2	19.8	30	9.8	46.5	M12x1.75P-25L	65KN	52-56	200g

AFK2-VT

DIMENSIONS 尺寸圖

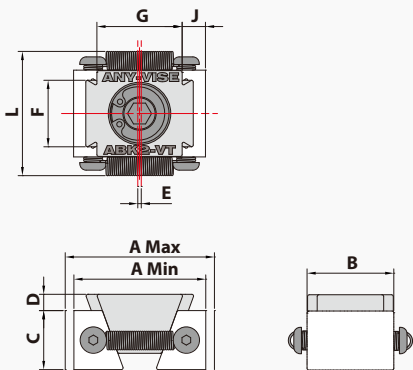
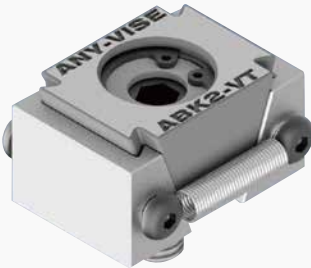


ITEM NO.	Min	Optimum	Max	B	C	D	E	F	G	J	L	METRIC BLOT 公差	PRESSING FORCE 夾持力	HARDNESS HRC HRC 硬度	WEIGHT 重量
AFK2-VT	58	60	63.6	44.5	29.5	6.6	3	19.5	42.6	10	60.5	M16 x 2P-40L	110KN	52-56	550g

SMOOTH-VISE 平面夾鉗

ABK2-SO

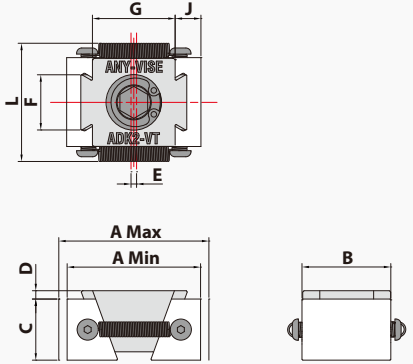
DIMENSIONS 尺寸圖



ITEM NO.	Min	Optimum	Max	B	C	D	E	F	G	J	L	METRIC BLOT 公差	PRESSING FORCE 夾持力	HARDNESS HRC HRC 硬度	WEIGHT 重量
ABK2-SO	36	38	40	25.4	17.3	7.4	1	19.3	25.6	7.8	40.5	M8 x 1.25P-20L	25KN	52-56	80g

ADK2-SO

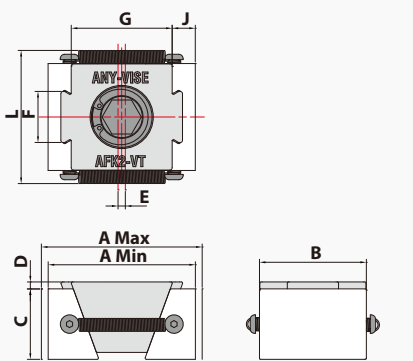
DIMENSIONS 尺寸圖



ITEM NO.	Min	Optimum	Max	B	C	D	E	F	G	J	L	METRIC BLOT 公差	PRESSING FORCE 夾持力	HARDNESS HRC HRC 硬度	WEIGHT 重量
ADK2-SO	42	44	48	32.5	22.5	9	2	19.8	30	9.8	46.5	M12 x 1.75P-25L	65KN	52-56	200g

AFK2-SO

DIMENSIONS 尺寸圖



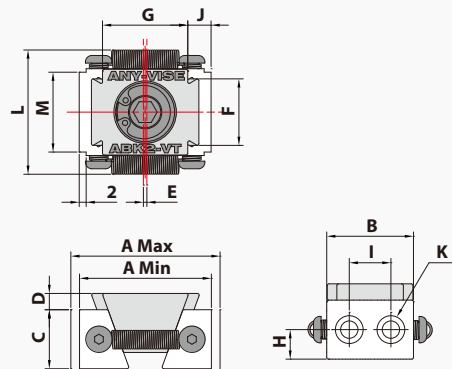
ITEM NO.	Min	Optimum	Max	B	C	D	E	F	G	J	L	METRIC BLOT 公差	PRESSING FORCE 夾持力	HARDNESS HRC HRC 硬度	WEIGHT 重量
AFK2-SO	56	58	61.6	44.5	29.5	6.6	3	19.5	42.6	10	60.5	M16 x 2P-40L	110KN	52-56	550g

ADDITIONAL PIECE-VISE 應用夾鉗

ABK2-VT-T



DIMENSIONS 尺寸圖

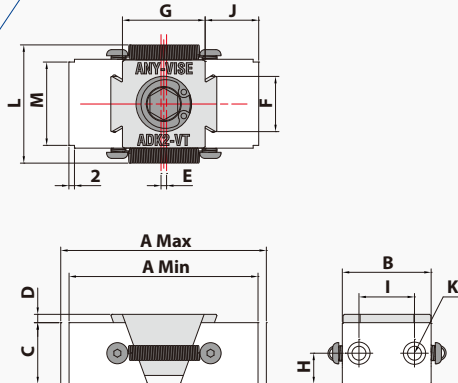


ITEM NO.	Min	Optimum	Max	B	C	D	E	F	G	H	I	J	K	L	M	METRIC BLOT 公差	PRESSING FORCE 夾持力	HARDNESS HRC HRC 硬度	WEIGHT 重量
ABK2-VT-T	50	52	54	25.4	17.3	7.4	1	19.3	25.6	8.5	12	11.5	M5	40.5	23	M8 x 1.25P-20L	25KN	52-56	80

ADK2-VT-T



DIMENSIONS 尺寸圖

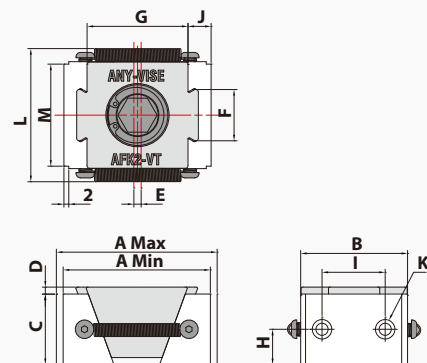


ITEM NO.	Min	Optimum	Max	B	C	D	E	F	G	H	I	J	K	L	M	METRIC BLOT 公差	PRESSING FORCE 夾持力	HARDNESS HRC HRC 硬度	WEIGHT 重量
ADK2-VT-T	67	69	71	32.5	22	9	2	19.8	30	11	20	9.8	M5	46.5	30	M12x1.75P-25L	65KN	52-56	180

AFK2-VT-T

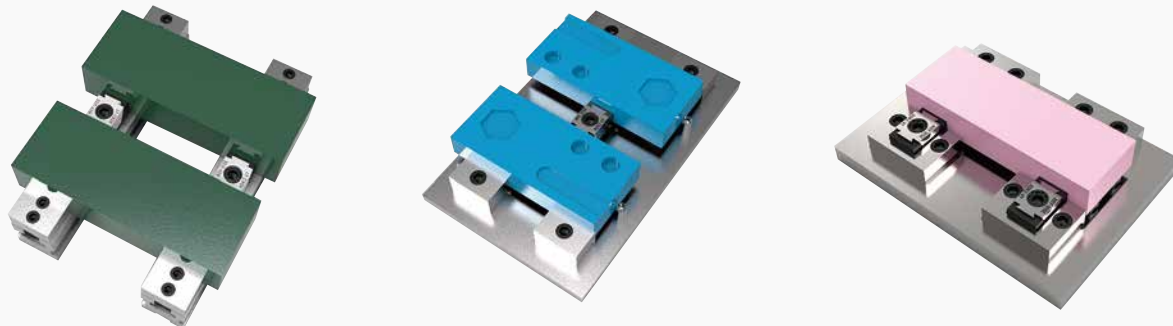


DIMENSIONS 尺寸圖



ITEM NO.	Min	Optimum	Max	B	C	D	E	F	G	H	I	J	K	L	M	METRIC BLOT 公差	PRESSING FORCE 夾持力	HARDNESS HRC HRC 硬度	WEIGHT 重量
AFK2-VT-T	56	58	61.6	44.5	29.5	6.6	3	19.7	42.6	14.5	26	10	M5	60.5	42	M16 x 2P-40L	110KN	52-56	500

GRID APPLICATION 夾鉗應用



ALG
50, 72, 100

ALG
FLEXIBLE ANY-JIG

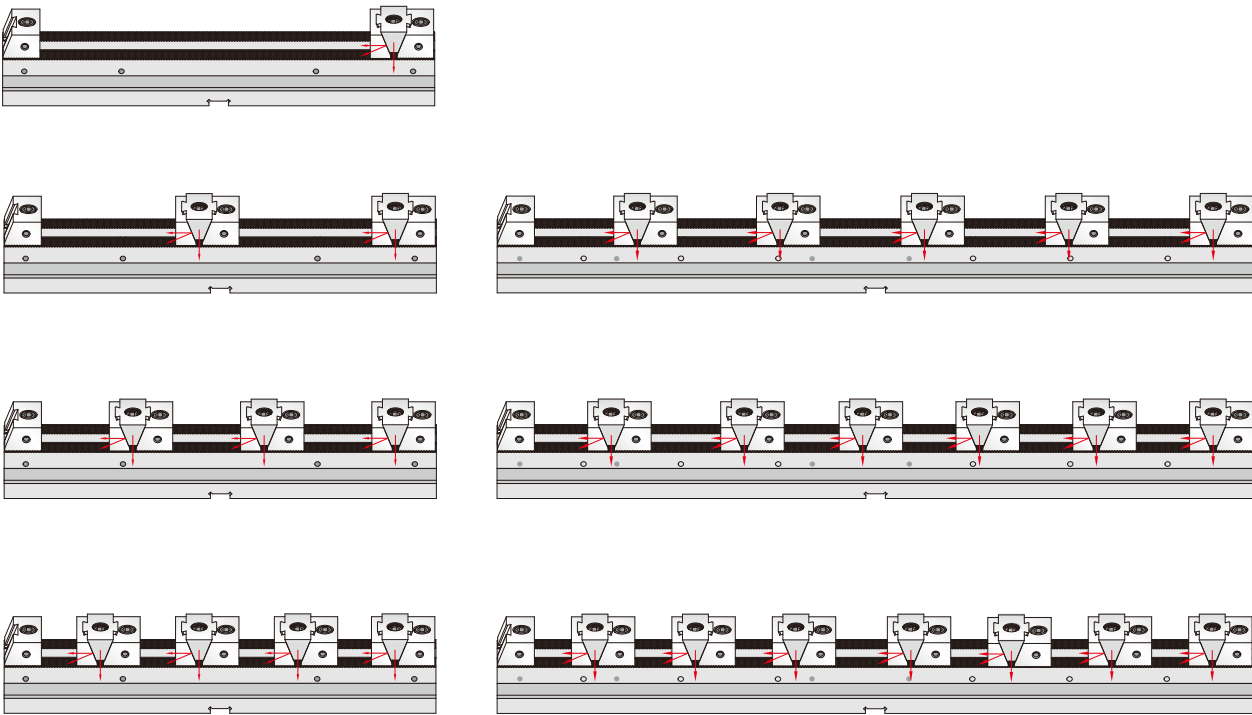
ALG 活動虎鉗



ALG CLAMPING
FUNCTION

ALG 虎鉗功能

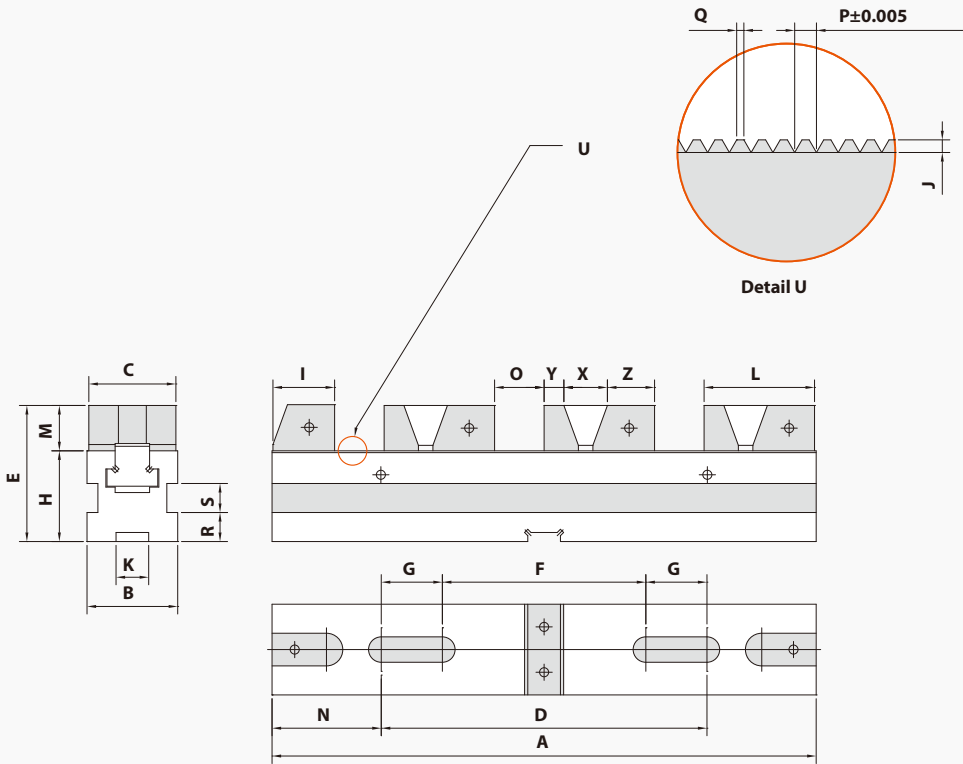
DIRECTION OF FORCE 作用力方向



MAXIMUM WIDTH OF THE WORKPIECES WHICH CAN BE CLAMPED 最大夾持工件寬度

ITEM NO.	1 WORKPIECE 1個工件	2 WORKPIECE 2個工件	3 WORKPIECE 3個工件	4 WORKPIECE 4個工件	5 WORKPIECE 5個工件	6 WORKPIECE 6個工件
ALG-5030	207	72.2	30	--	--	--
ALG-5040	307	124.2	63.3	32.6	14.6	--
ALG-5050	407	174.2	96.6	57.6	34.6	19
ALG-5060	507	224.2	130	82.6	54.6	35.7
ALG-5065	557	249.2	146.7	95.1	64.6	44
ALG-7240	280.8	102.8	43.5	13.8	--	--
ALG-7250	380.8	152.8	76.8	38.8	16	--
ALG-7260	480.8	202.8	110.1	63.8	36	17.5
ALG-7265	530.8	227.8	126.8	76.3	46	25.8
ALG-10040	262.7	86.7	29.3	--	--	--
ALG-10050	362.7	137.7	62.7	25.2	--	--
ALG-10060	462.7	187.7	96	50.2	22.7	--
ALG-10065	512.7	212.7	112.7	62.7	32.7	12.7

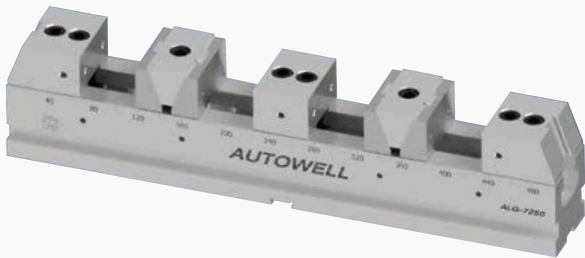
DIMENSIONS 尺寸圖



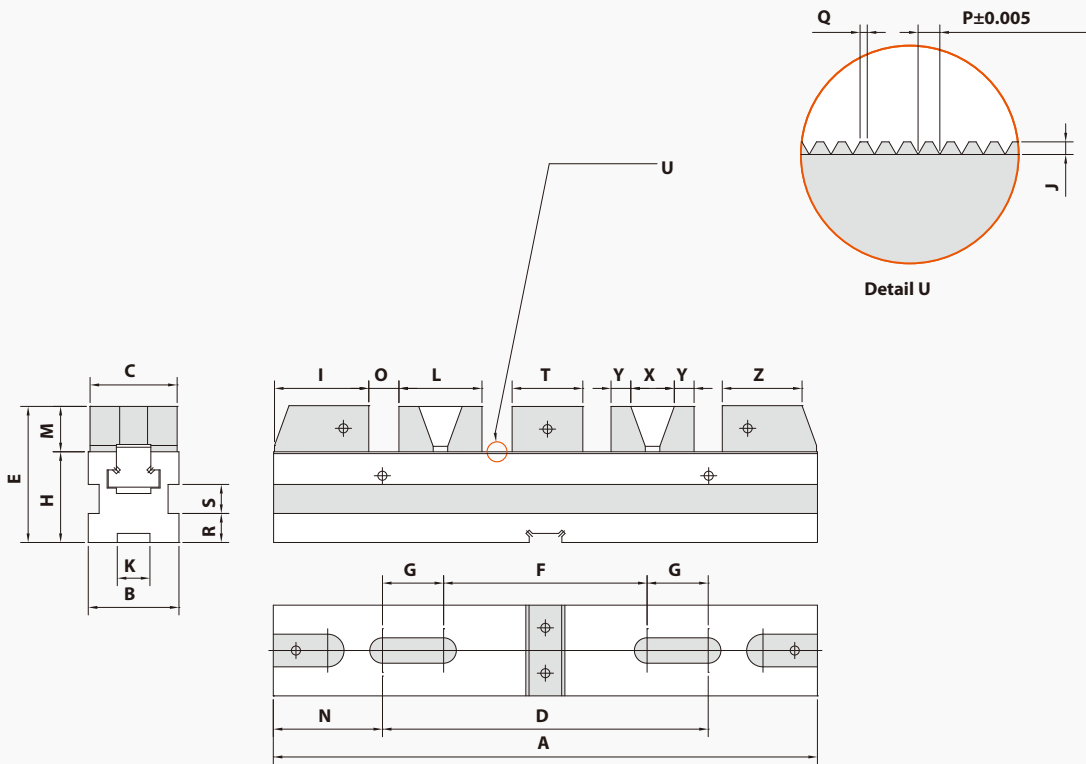
ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	X	Y	Z	CLAMPING FORCE 夾持力	WEIGHT 重量
ALG-5030	300	50	48	200	75	160	20	50	32	0.87	18	58.5	25	50	30	1.5	0.5	16	16	24	10.7	26	1000kgf	6.5
ALG-5040	400	50	48	200	75	160	20	50	32	0.87	18	58.5	25	100	32.6	1.5	0.5	16	16	24	10.7	26	1000kgf	8.5
ALG-5050	500	50	48	200	75	160	20	50	32	0.87	18	58.5	25	150	57.6	1.5	0.5	16	16	24	10.7	26	1000kgf	10
ALG-5060	600	50	48	200	75	160	20	50	32	0.87	18	58.5	25	200	82.6	1.5	0.5	16	16	24	10.7	26	1000kgf	11
ALG-5065	650	50	48	200	75	160	20	50	32	0.87	18	58.5	25	225	95.1	1.5	0.5	16	16	24	10.7	26	1000kgf	13
ALG-7240	400	72	70	200	112	160	20	72	43	1.13	18	77.4	40	100	13.8	2	0.7	16	16	36	11.4	30	2000kgf	20
ALG-7250	500	72	70	200	112	160	20	72	43	1.13	18	77.4	40	150	38.8	2	0.7	16	16	36	11.4	30	2000kgf	23
ALG-7260	600	72	70	200	112	160	20	72	43	1.13	18	77.4	40	200	63.8	2	0.7	16	16	36	11.4	30	2000kgf	26.5
ALG-7265	650	72	70	200	112	160	20	72	43	1.13	18	77.4	40	225	76.3	2	0.7	16	16	36	11.4	30	2000kgf	29.5
ALG-10040	400	100	98	200	115	160	20	72	43	1.3	18	89.5	43	100	29.3	2.5	1	16	16	42	13.4	34.2	3000kgf	27.5
ALG-10050	500	100	98	200	115	160	20	72	43	1.3	18	89.5	43	150	25.2	2.5	1	16	16	42	13.4	34.2	3000kgf	34.5
ALG-10060	600	100	98	200	115	160	20	72	43	1.3	18	89.5	43	200	50.2	2.5	1	16	16	42	13.4	34.2	3000kgf	38.5
ALG-10065	650	100	98	200	115	160	20	72	43	1.3	18	89.5	43	225	62.7	2.5	1	16	16	42	13.4	34.2	3000kgf	42.5

BLG
50, 72, 100

BLG
FLEXIBLE ANY-JIG
BLG 活動虎鉗

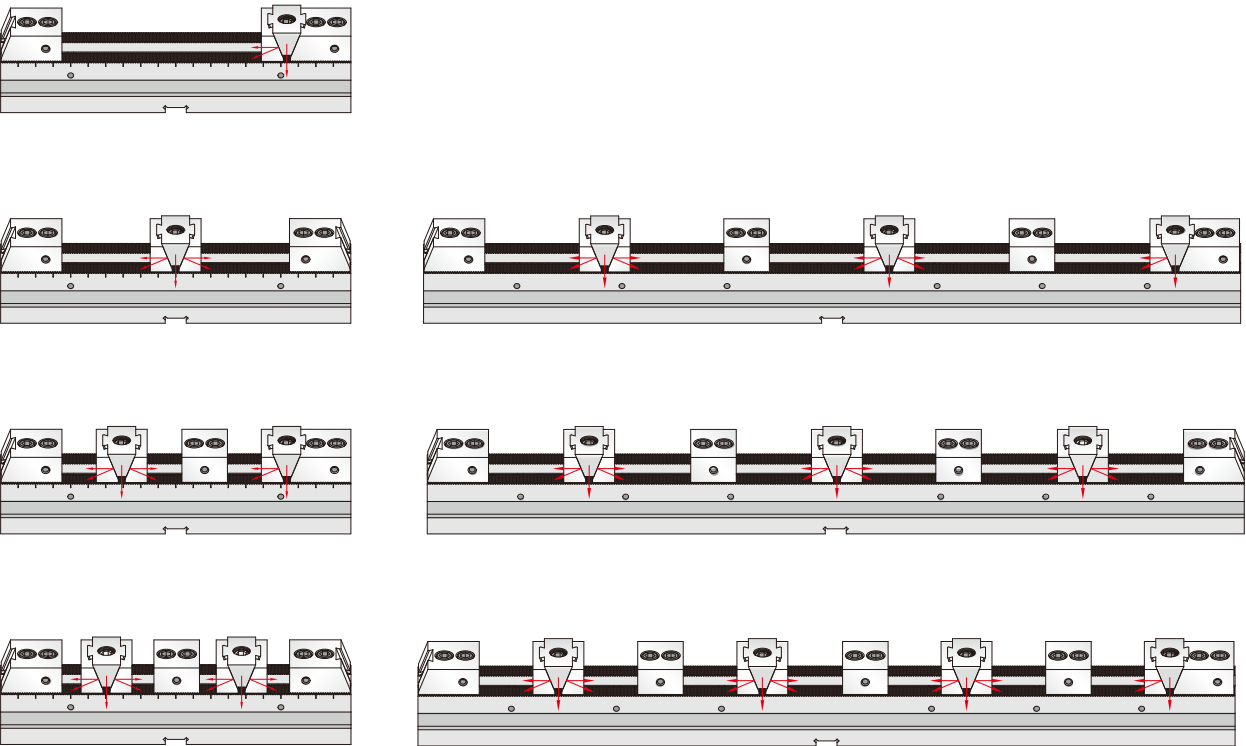


DIMENSIONS 尺寸圖



BLG CLAMPING
FUNCTION
BLG 虎鉗功能

DIRECTION OF FORCE 作用力方向



MAXIMUM WIDTH OF THE WORKPIECES WHICH CAN BE CLAMPED 最大夾持工件寬度

ITEM NO.	1 WORKPIECE 1個工件	2 WORKPIECE 2個工件	3 WORKPIECE 3個工件	4 WORKPIECE 4個工件	5 WORKPIECE 5個工件	6 WORKPIECE 6個工件
BLG-5030	171	75.7	29.6	17.4	—	—
BLG-5040	271	125.7	63	42.4	21.3	14.5
BLG-5050	371	175.7	96.3	67.4	41.3	31.1
BLG-5060	471	225.7	129.6	92.4	61.3	47.8
BLG-5065	521	250.7	146.3	104.9	71.3	56.1
BLG-7240	236.8	106.7	43.4	26.7	—	—
BLG-7250	336.8	156.7	76.7	51.7	24.7	16.7
BLG-7260	436.8	206.7	110.0	76.7	44.7	33.3
BLG-7265	486.8	231.7	126.7	89.2	54.7	41.6
BLG-10040	220.7	96.7	34.7	19.2	—	—
BLG-10050	320.7	146.7	68.0	44.2	17.5	10
BLG-10060	420.7	196.7	101.4	69.2	37.5	26.7
BLG-10065	470.7	221.7	118.1	81.7	47.5	35

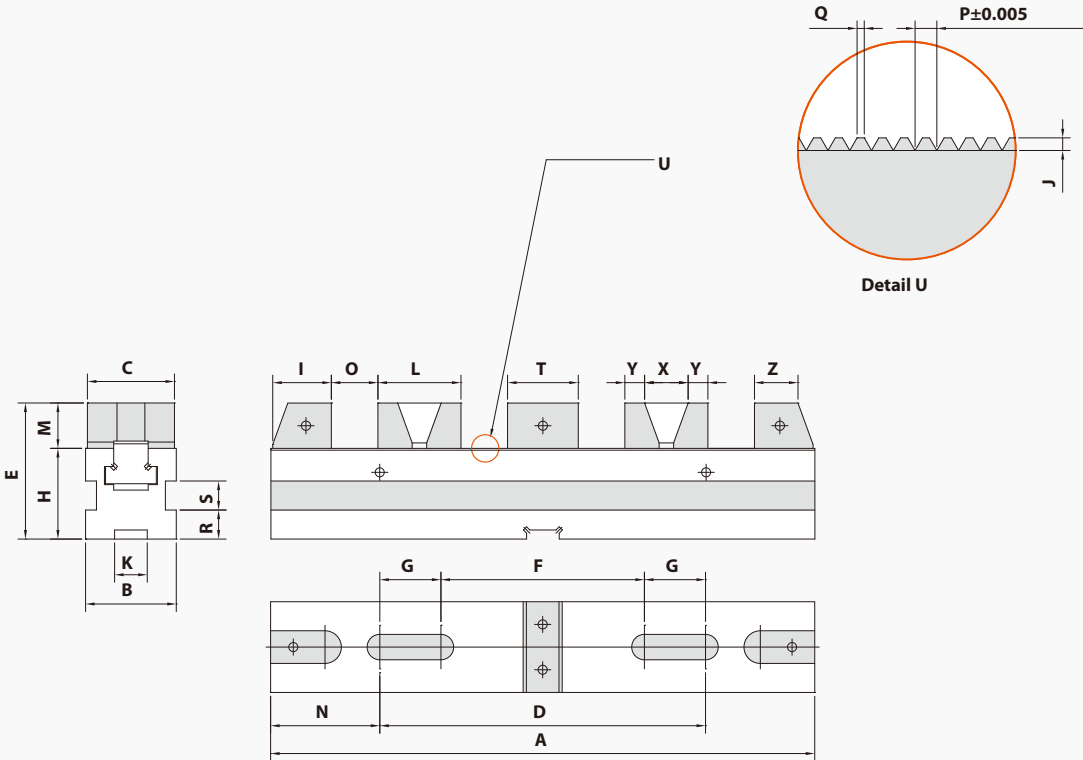
ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	X	Y	Z	CLAMPING FORCE 夾持力	WEIGHT 重量
BLG-5030	300	50	48	200	75	160	20	50	52	0.87	18	43.3	25	50	17.4	1.5	0.5	16	16	39	24	10.7	44	1000kgf	6.5
BLG-5040	400	50	48	200	75	160	20	50	52	0.87	18	43.3	25	100	42.4	1.5	0.5	16	16	39	24	10.7	44	1000kgf	8
BLG-5050	500	50	48	200	75	160	20	50	52	0.87	18	43.3	25	150	67.4	1.5	0.5	16	16	39	24	10.7	44	1000kgf	9.5
BLG-5060	600	50	48	200	75	160	20	50	52	0.87	18	43.3	25	200	92.4	1.5	0.5	16	16	39	24	10.7	44	1000kgf	11
BLG-5065	650	50	48	200	75	160	20	50	52	0.87	18	43.3	25	225	104.9	1.5	0.5	16	16	50	24	10.7	44	1000kgf	11.5
BLG-7240	400	72	70	200	112	160	20	72	66	1.13	18	56.7	40	100	26.7	2	0.7	16	16	50	36	11.4	53	2000kgf	19
BLG-7250	500	72	70	200	112	160	20	72	66	1.13	18	56.7	40	150	51.7	2	0.7	16	16	50	36	11.4	53	2000kgf	22
BLG-7260	600	72	70	200	112	160	20	72	66	1.13	18	56.7	40	200	76.7	2	0.7	16	16	50	36	11.4	53	2000kgf	24.5
BLG-7265	650	72	70	200	112	160	20	72	66	1.13	18	56.7	40	225	89.2	2	0.7	16	16	50	36	11.4	53	2000kgf	26
BLG-10040	400	100	98	200	115	160	20	72	70	1.3	18	66.5	43	100	19.2	2.5	1	16	16	50	42	13.4	56.2	3000kgf	28
BLG-10050	500	100	98	200	115	160	20	72	70	1.3	18	66.5	43	150	44.2	2.5	1	16	16	50	42	13.4	56.2	3000kgf	28
BLG-10060	600	100	98	200	115	160	20	72	70	1.3	18	66.5	43	200	69.2	2.5	1	16	16	50	42	13.4	56.2	3000kgf	35.5
BLG-10065	650	100	98	200	115	160	20	72	70	1.3	18	66.5	43	225	81.7	2.5	1	16	16	50	42	13.4	56.2	3000kgf	38

ELG
50, 72, 100

ELG
FLEXIBLE ANY-JIG
ELG 活動虎鉗



DIMENSIONS 尺寸圖

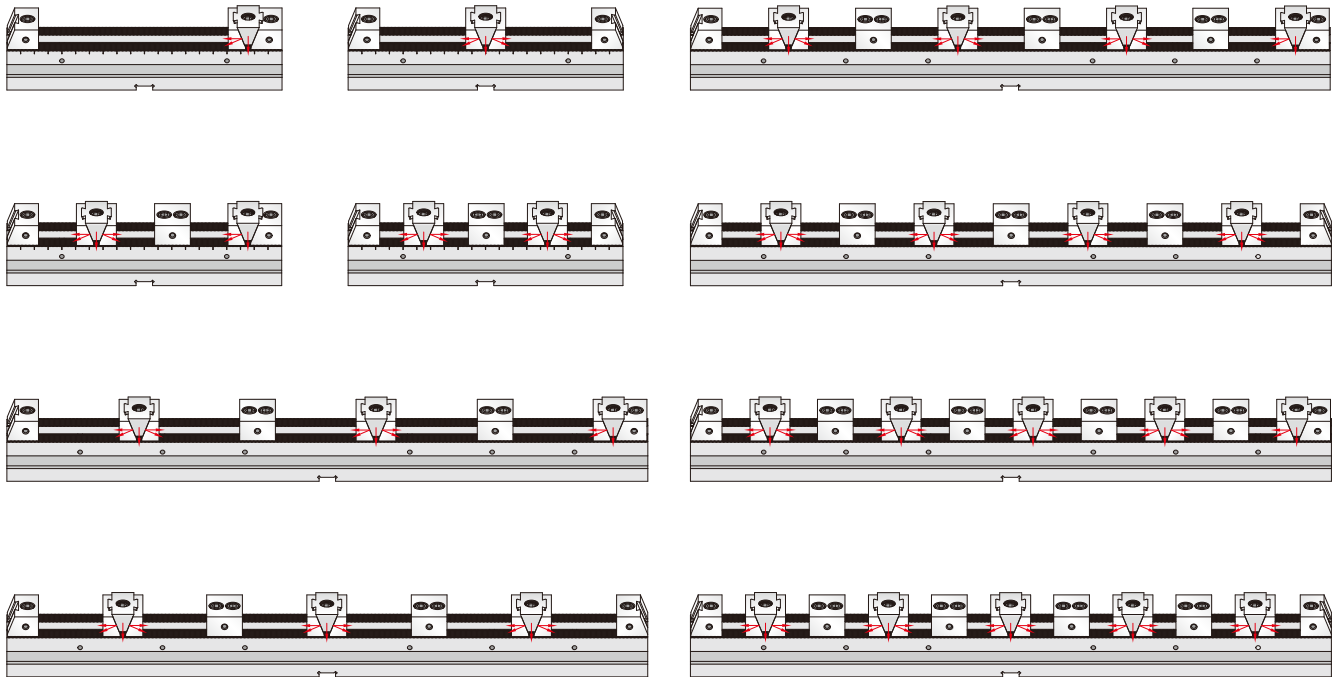


ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	X	Y	Z	CLAMPING FORCE 夾持力	WEIGHT 重量
	mm																								
ELG-5030	300	50	48	200	75	160	20	50	34	0.87	18	43.3	25	50	26.4	1.5	0.5	16	16	39	24	10.7	26	1000kgf	6.5
ELG-5040	400	50	48	200	75	160	20	50	34	0.87	18	43.3	25	100	51.4	1.5	0.5	16	16	39	24	10.7	26	1000kgf	7.5
ELG-5050	500	50	48	200	75	160	20	50	34	0.87	18	43.3	25	150	76.4	1.5	0.5	16	16	39	24	10.7	26	1000kgf	9
ELG-5060	600	50	48	200	75	160	20	50	34	0.87	18	43.3	25	200	101.4	1.5	0.5	16	16	39	24	10.7	26	1000kgf	10
ELG-5065	650	50	48	200	75	160	20	50	34	0.87	18	43.3	25	225	113.9	1.5	0.5	16	16	50	24	10.7	26	1000kgf	10.5
ELG-7240	400	72	70	200	112	160	20	72	43	1.13	18	56.7	40	100	37.7	2	0.7	16	16	50	36	11.4	30	2000kgf	17
ELG-7250	500	72	70	200	112	160	20	72	43	1.13	18	56.7	40	150	62.7	2	0.7	16	16	50	36	11.4	30	2000kgf	20.5
ELG-7260	600	72	70	200	112	160	20	72	43	1.13	18	56.7	40	200	87.7	2	0.7	16	16	50	36	11.4	30	2000kgf	23
ELG-7265	650	72	70	200	112	160	20	72	43	1.13	18	56.7	40	225	100.2	2	0.7	16	16	50	36	11.4	30	2000kgf	24
ELG-10040	400	100	98	200	115	160	20	72	48	1.3	18	66.5	43	100	29.5	2.5	1	16	16	50	42	13.4	34.2	3000kgf	26.5
ELG-10050	500	100	98	200	115	160	20	72	48	1.3	18	66.5	43	150	54.5	2.5	1	16	16	50	42	13.4	34.2	3000kgf	39.5
ELG-10060	600	100	98	200	115	160	20	72	48	1.3	18	66.5	43	200	79.5	2.5	1	16	16	50	42	13.4	34.2	3000kgf	33.5
ELG-10065	650	100	98	200	115	160	20	72	48	1.3	18	66.5	43	225	92	2.5	1	16	16	50	42	13.4	34.2	3000kgf	35.5

ELG CLAMPING
FUNCTION

ELG 虎鉗功能

DIRECTION OF FORCE 作用力方向



MAXIMUM WIDTH OF THE WORKPIECES WHICH CAN BE CLAMPED 最大夾持工件寬度

ITEM NO.	1 WORKPIECE 1個工件	2 WORKPIECE 2個工件	3 WORKPIECE 3個工件	4 WORKPIECE 4個工件	5 WORKPIECE 5個工件	6 WORKPIECE 6個工件
ELG-5030	207	93.9	41.6	26.4	—	—
ELG-5040	307	143.9	74.9	51.4	28.5	20.5
ELG-5050	407	193.9	108.2	76.4	48.5	37.2
ELG-5060	507	243.9	141.6	101.4	68.5	53.9
ELG-5065	557	268.9	149.9	113.9	78.5	62.2
ELG-7240	280.8	128.7	58	37.7	13.5	—
ELG-7250	380.8	178.7	91.4	62.7	33.5	23.9
ELG-7260	480.8	228.7	124.7	87.7	53.5	40.6
ELG-7265	530.8	253.7	141.4	100.2	63.5	48.9
ELG-10040	262.7	117.2	48.7	29.5	—	—
ELG-10050	362.7	167.2	82.1	54.5	25.9	16.8
ELG-10060	462.7	217.2	115.4	79.5	45.9	33.5
ELG-10065	512.7	242.2	132.1	92	55.9	41.8

OPTIONAL ACCESSORIES

虎鉗配件



STATIONARY WEDGE-HEAVY DUTY 固定夾塊

ITEM NO.	A	B	C	WEIGHT 重量
	mm			
3ALG510101	50	300	50	4 kg
3ALG510102	50	400	50	5 kg
3ALG510103	50	500	50	6.5 kg
3ALG510104	50	600	50	8 kg
3ALG510105	50	650	72	9 kg
3ALG710102	72	400	72	11 kg
3ALG710103	72	500	72	14 kg
3ALG710104	72	600	72	17 kg
3ALG710105	72	650	72	19 kg
3ALG1010102	100	400	72	17 kg
3ALG1010103	100	500	72	20 kg
3ALG1010104	100	600	72	23.5 kg
3ALG1010105	100	650	72	26 kg

3 ALG 53104

STATIONARY WEDGE-HEAVY DUTY 固定夾塊

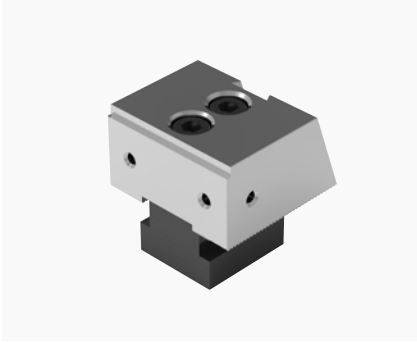
ITEM NO.	A	B	C	D	E	F	WEIGHT 重量
	mm						
3ALG53104	48	52	44	25.44	30	12.5	0.5 kg
3ALG73104	70	66	52	40.52	44	21.3	1.7 kg
3ALG103104	98	70	56.2	43.45	64	22	2.7 kg

3 ABG 53104

SERRATED STATIONARY WEDGE-HEAVY DUTY 鋸齒型固定夾塊

ITEM NO.	A	B	C	D	E	F	WEIGHT 重量
	mm						
3ABG53104	48	52	44	25.44	30	12.5	0.5 kg
3ABG73104	70	66	52	40.52	44	21.3	1.6 kg
3ABG103104	98	70	56.2	43.45	64	22	2.6 kg

3 ABS 53104



STEP STATIONARY WEDGE-HEAVY DUTY 固定夾塊

ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
	mm							
3ABS53104	48	52	44	25.44	30	12.5	5	0.5kg
3ABS73104	70	66	52	40.52	44	21.3	5	1.6kg
3ABS103104	98	70	56.2	43.45	64	22	5	2.6kg

3 ALG 530102

STATIONARY WEDGE-STANDARD DUTY 固定夾塊

ITEM NO.	A	B	C	D	E	F	WEIGHT 重量
	mm						
3ALG530102	48	34	26	25.44	30	12.5	0.4kg
3ALG730102	70	43	30	40.52	44	21.3	1kg
3ALG1030102	98	48	34.2	43.45	64	22	1.6kg

3 ABG 530102

SERRATED STATIONARY WEDGE-STANDARD DUTY 鋸齒型固定夾塊

ITEM NO.	A	B	C	D	E	F	WEIGHT 重量
	mm						
3ABG530102	48	34	26	25.44	30	12.5	0.4kg
3ABG730102	70	43	30	40.52	44	21.3	1kg
3ABG1030102	98	48	34.2	43.45	64	22	1.6kg

3 ABS 530102

STEP STATIONARY WEDGE-STANDARD DUTY 固定夾塊

ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
	mm							
3ABS530102	48	34	26	25.44	30	12.5	5	0.4kg
3ABS730102	70	43	30	40.52	44	21.3	5	1kg
3ABS1030102	98	48	34.2	43.45	64	22	5	1.6kg

OPTIONAL ACCESSORIES

虎鉗配件

3 ALG 530302



MOVEABLE JAW 活動夾塊

ITEM NO.	A	B	C	D	E	F	WEIGHT 重量
3ALG530302	48	19.8	10.7	25	30	12.5	0.15 kg
3ALG730302	70	24.2	11.4	40	44	21.3	0.5 kg
3ALG1030302	98	27.2	13.4	43	64	22	0.8 kg

3 ABS 530302



STEP MOVEABLE JAW 活動夾塊

ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
3ABS530302	48	19.8	10.7	25	30	12.5	5	0.15 kg
3ABS730302	70	24.2	11.4	40	44	21.3	5	0.4 kg
3ABS1030302	98	27.2	13.4	43	64	22	5	0.7 kg

3 ABG 530302



SERRATED MOVEABLE JAW 鋸齒活動夾塊

ITEM NO.	A	B	C	D	E	F	WEIGHT 重量
3ABG530302	48	19.8	10.7	25	30	12.5	0.15 kg
3ABG730302	70	24.2	11.4	40	44	21.3	0.5 kg
3ABG1030302	98	27.2	13.4	43	64	22	0.8 kg

3 ALG 530402



MOVEABLE WEDGE 活動夾塊

ITEM NO.	A	B	C	WEIGHT 重量
3ALG530402	47.7	24	22	0.4 kg
3ALG730402	69.7	36	35	0.7 kg
3ALG1030402	97.7	42	38	1.1 kg

3 ABS 53104



FIXED JAW-STANDARD DUTY 固定夾塊

ITEM NO.	A	B	C	D	E	WEIGHT 重量
3ALG530201	48	39	25.44	30	12.5	0.5 kg
3ALG730201	70	50	40.52	44	21.3	1.4 kg
3ALG1030201	98	50	43.45	64	22	2.1 kg

3 ALG 530102



SERRATED FIXED JAW-STANDARD DUTY 固定夾塊

ITEM NO.	A	B	C	D	E	WEIGHT 重量
3ABG530201	48	39	25.44	30	12.5	0.5 kg
3ABG730201	70	50	40.52	44	21.3	1.4 kg
3ABG1030201	98	50	43.45	64	22	2.1 kg

3 ABG 530102



STEP FIXED JAW-STANDARD DUTY 鋸齒型固定夾塊

ITEM NO.	A	B	C	D	E	F	WEIGHT 重量
3ABS530201	48	39	25.44	30	12.5	5	0.5 kg
3ABS730201	70	50	40.52	44	21.3	5	1.4 kg
3ABS1030201	98	50	43.45	64	22	5	2.1 kg

3 ABS 530102



FIXED SOFT JAW 固定夾塊

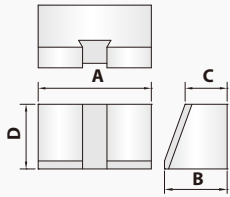
ITEM NO.	A	B	C	D	E	WEIGHT 重量
3ALG540102	47	12	25	30	12.5	0.10 kg
3ALG740102	69	12	40	44	21.3	0.25 kg
3ALG1040102	97	15	43	64	22	0.5 kg

OPTIONAL ACCESSORIES

虎鉗配件

3 ALG 530302

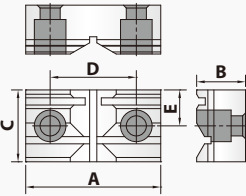
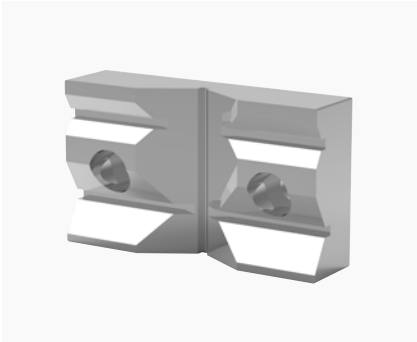
MOVEABLE SOFT JAW 活動夾塊



ITEM NO.	A	B	C	D	WEIGHT
	mm				重量
3ALG530302	48	29	21	25	0.5 kg
3ALG730302	70	39	26	40	0.7 kg
3ALG1030302	98	48.9	35	43	1.5 kg

3 ABG 540702

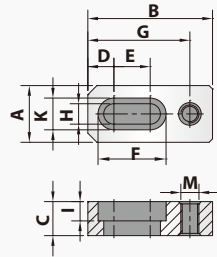
HARDENED V JAW 活動夾塊



ITEM NO.	A	B	C	D	E	WEIGHT
	mm					重量
3ALG540702	47	17	25	30	12.5	0.2 kg
3ALG740702	69	17	40	44	21.3	0.4 kg
3ALG1040702	97	19	43	64	22	0.6 kg

50N01901

WORKPIECE STOP PLATE 鋸齒活動夾塊



ITEM NO.	A	B	C	D	E	F	G	H	I	K	M	WEIGHT
	mm											重量
50N01901	17	50	10	10	12	23	45	6.5	6	11	M6	0.05 kg
50N01903	25	55	15	11.5	16	30	43	9	8.5	14	M8	0.15 kg

ALUMINUM DOUBLE STATION VISES
鋁合金雙鵝虎鉗

LIGHT, STEADY AND FLEXIBLE
輕量化、穩定性、可塑性

Auto Well has devoted to vises innovation for more efficiency. Aluminum Double Station Vises is made for your vertical or horizontal machining center basic on market requirement. Lighter weight and user friendly compare to other design. The three soft-jaws are shapable to meet your need and takes full advantages.

- High-grade aluminum body combines with an alloy steel cover plate enhances base strength and absorbs any machining vibrations.
- Quick changed soft-jaws for multiple machining jobs.
- Clamping force equalization ensures same force while machining two different size workpieces.
- Adjustable Automatically Return Mechanism reduce set-up times through set the off-set distance of movable jaw automatic or manual.

AUTO WELL 多年致力於虎鉗的創新來提高生產效率，針對市場需求，為您設計立/臥式加工機專用的“鋁合金雙鵝虎鉗”，此虎鉗擁有輕量化及高穩定度的特點，且具備三個可塑形之軟爪，隨時隨地為您訂製一個專屬的模具，讓您的CNC帶來更全面性的效益。

- 本台設計使用高級鋁合金材質及合金鋼板，可抵消加工時產生的震顫並加強基座的強度。
- 快速更換軟爪系統，以利多元加工。
- 夾持力自動補償系統，不論工件大小，皆同時夾緊且夾持力相同。
- 可調式自動定位系統，可自動或手動調整活動顎退開的距離，節省更換工件所浪費的時間。

AQS CLAMPING EXAMPLES
AQ5 應用範例

AQS
1040, 1250, 1250-4B

LOCKWELL, TOMBSTONE
ALUMINUM VISES

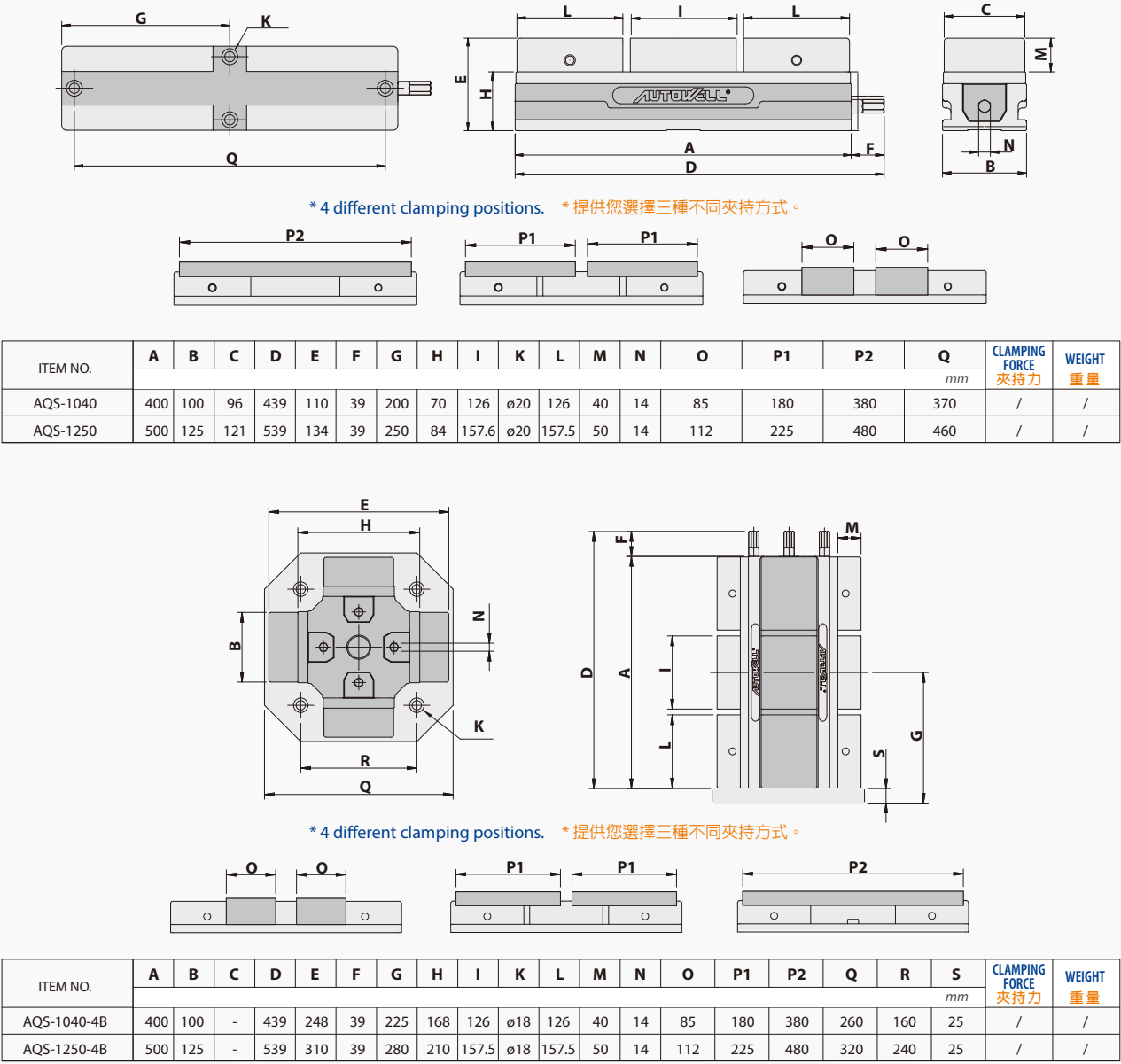
VMC, HMC 鋁合金雙鵝虎鉗

Workholding



AQS DIMENSIONS

VMC, HMC 尺寸圖



WELLOCK LARGE OPENING VISE

角固鎖式精密虎鉗

WORLD FAMOUS & HIGH ACCURACY
& BEST QUALITY & LARGE OPENING

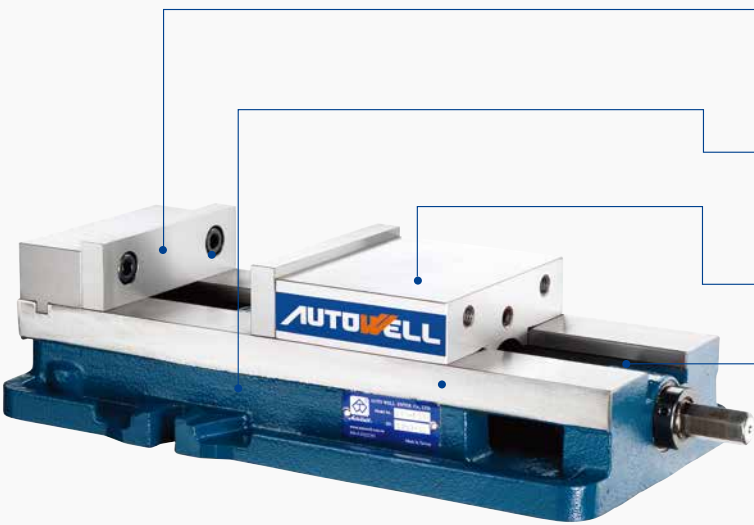
世界級、特精準、高品質、大開口

ATW Vise offers the high quality as same as the world famous brands. Improving on industry standards, the vises are ultra-precision in datum, flatness, parallelism and verticality.

Wellock Semi-spherical segment eliminate deflection and lift.
Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened
to H565° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.
4 different clamping positions.
Bearing system has sealed and special treated to reduce damage for extend the lifetime.
8,200lbs high clamping force.

元駿角固系列虎鉗品質與世界知名大品牌同級，不論是基準面、滑動面、平行度、垂直度等皆高於一般業界標準。

角固式(WELLOCK)半圓球可產生角固下鎖之力，可消除鉗口板上浮和工件傾斜。
虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60(80,000PSI)抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性與精度；鉗口均採用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。
虎鉗擁有四種不同的夾持開口應用位置來供客戶選擇。
傳動螺桿採特殊防塵裝置，且螺桿經過特殊處理，可減少磨耗。
夾持力高達8,200lbs（37,800N）



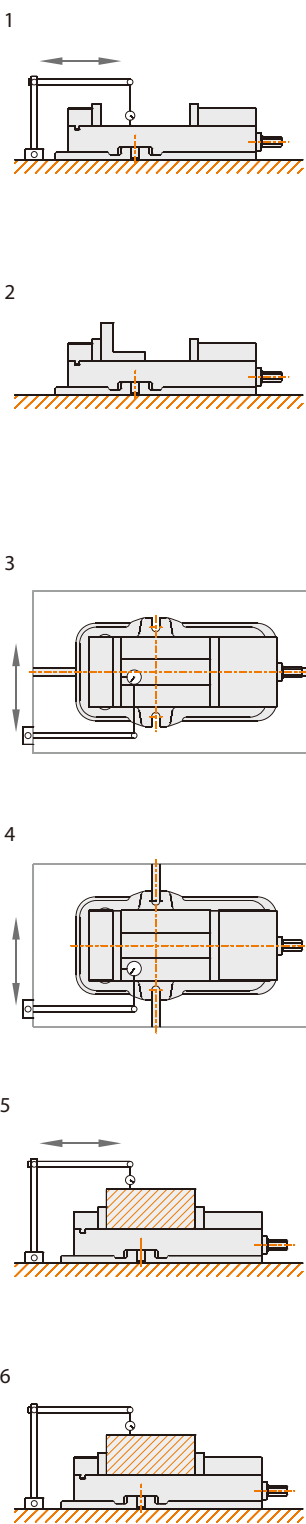
8,200LBS CLAMPING FORCE
8,200lbs 高夾持力

WELLOCK ANTI-LIFT MECHANISM
球狀石墨鑄鐵材質

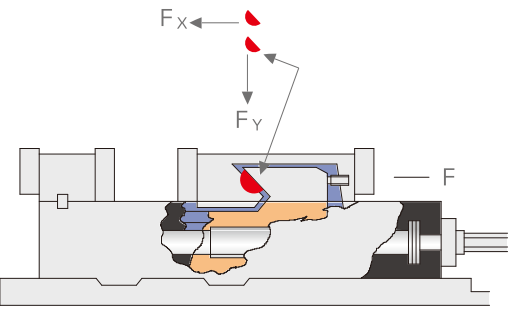
SEALED BEARING SYSTEM
半圓球防止上浮機構

DUCTILE IRON BODY
密封軸承系統

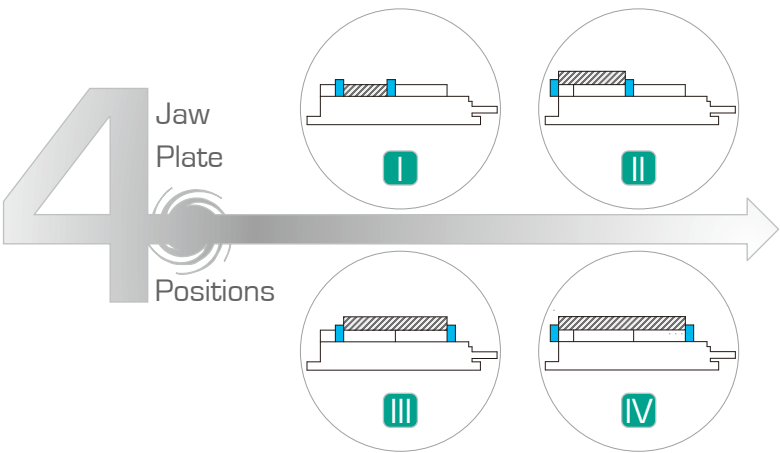
STATIC ACCURACY
精度表



WELLOCK ANTI-LIFT MECHANISM
半圓球防止上浮機構



4 JAW-PLATE POSITIONS
4種鉗口板應用位置



WELLOCK VISE SYSTEM
角固式虎鉗

NO.	INSPECTION ITEMS (PER 100 MM) 檢查項目 (每100mm)		ALLOWANCE 容許值 (mm)	
			AUTOWELL	JIS. CLASS
1	PARALLELISM	Running face to bottom of bed 本台滑動面對底面之平行度	0.01	0.015
2	SQUARENESS	Between running face and jaw plate 鉗口面對滑動面之垂直度	0.01	0.03
3	SQUARENESS	Keyways on bottom of bed to jaw plate 鉗口面對本台底面T型槽之垂直度	0.015	0.015
4	PARALLELISM	Keyways on bottom of bed to jaw plate 鉗口面對本台底面T型槽之平行度	0.01	0.015
5	SQUARENESS	Both sides to running face 雙側面對滑動面之垂直度	0.015	0.02
6	SQUARENESS	Both sides to fixed jaw plate 雙側面對固定鉗口面之垂直度	0.015	0.03

Basic on global market, our company start producing MC serious type of vise on 1986 and we keep our vise dimensions as same since then. There is no fitment or alignment problem between our old and new MC vise.
同高定寸：針對全球市場，本公司於1986年開始生產MC系列虎鉗，並全部保持一致尺寸；讓您在不論是在過去、現在或未來所購買的MC系列虎鉗均可多台並列使用。

ATW
689, 810, 811

WELLOCK LARGE
OPENING VISE

角固鎖式 虎鉗

Workholding

ATW-689

8.9" large opening.
Spindle nut does not protrude past the end of body.
Same distance from keyway to stationary jaw with ATW-675.

Bed height 73.025±0.012mm (2.875±0.0005").

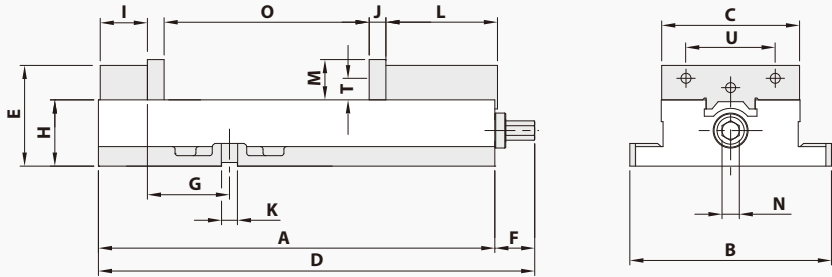
8.9"大開口。
齒條不超出本台。
T型槽到固定顎的距離同ATW-675。
本台高度73.025±0.012mm (2.875±0.0005")。

ATW-810

Updated body from ATW-80, it provides 10" large opening and steadier vise body.
Bed height 84.074±0.012mm (3.31±0.0005").

11,600lbs clamping force.
ATW-810是由ATW-80進化而成，10"超大開口且本台穩定度更高。
本台高度84.074±0.012mm (3.31±0.0005")。
夾持力11,600lbs。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	WEIGHT 重量
	mm																	
ATW-689	437	222	151	481	111.025	44	90.5	73.025	52	18	17.48 / 18	123	44.5	19	226	23.8	98.4	36.3kg
ATW-810	555	295	206	615	134.074	60	125.7	84.074	58	24.2	20.65 / 18	157	56	19	265	32	120	68.2kg
ATW-811	554	292	203.2	614.5	134	60.5	119	84	92.65	27.3	20.65	146.05	56	19	280	31	120.65	68kg

ATW-675
ATD-460/570

WELLOCK VISE
角固鎖式 虎鉗

ATW-675

7.5" opening.
Bed height 73.025±0.012mm (2.875±0.0005").

7.5"開口。
本台高度73.025±0.012mm (2.875±0.0005")。

Workholding

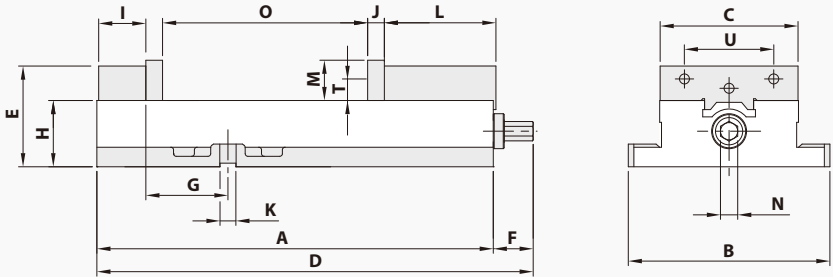
ATW-675



ATD-460/570



DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	WEIGHT 重量
	mm																	
ATD-460	321	160	102	361	85.65	40	71	57.15	35.1	15	12	102	35	14	153	17.5	63.5	14kg
ATD-570	368	194	126	415	97	47	85	63.5	40.5	17	16	120	38.1	16	178	20.6	79.4	21kg
ATW-675	432	235	151	476	111.025	44	108	73.025	52	18	17.48 / 18	123	44.5	19	192	23.8	98.4	36kg

ADX, ADXR/ EDX, EDXR
100, 160(M, IN)

WELLOCK
LARGE OPENING VISE

角固鎖式 虎鉗



9" large opening for 6'.

Spindle nut does not protrude past the end of body.

Same distance from keyway to stationary jaw with ATW-689.

Bed heigh 73.025±0.012 (2.875±0.0005").

Anti-Lift inside. Wellock Semi-spherical segment eliminate deflection and lift.

Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body.

USA Patent No. US:D838,568S

ADX-160 九吋大開口。

齒條不超出本台。

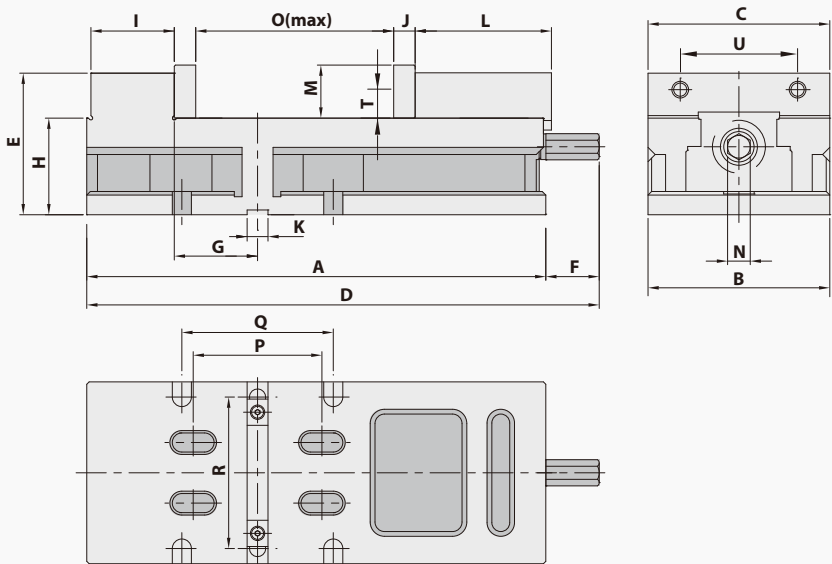
ADX-160之T型槽到固定鐵的距離同ATW-689

本台高度73.025±0.012mm (2.875±0.0005")。

ADX系列材質: FCD60(80,000PSI)抗張力強，不易變形。

美國專利認證 US:D838,568S。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	WEIGHT 重量
	mm																	
ADX, ADXR-100	317	127	101	347	85.5	29	65.05	57.15	44.45	14	12.7	78.7	31.4	14	166	17.5	63.5	14kg
ADX, ADXR-160(M)	427	186	151	466	111.025	39	90.5	73.025	58.7	18.42	17.46	101.6	44.5	19	232	23.8	98.4	31kg
ADX, ADXR-160(IN)	427	186	151	466	111.025	39	90.5	73.025	58.7	18.42	17.46	101.6	44.5	19	232	23.8	98.4	31kg
EDX, EDXR-160(IN)	427	186	151	466	111.025	39	90.5	73.025	58.7	18.42	17.46	101.6	44.5	19	232	23.8	98.4	31kg

MG, MGR
40, 60G

WELLOCK
VERSATILE VISE

多功能鎖式 虎鉗



Vise for basic single station CNC. Features on prevents lift of workpiece and high accuracy.

2 operate positions for VMC: Upright and Lay down.

1 operate position for HMC: Horizontal.

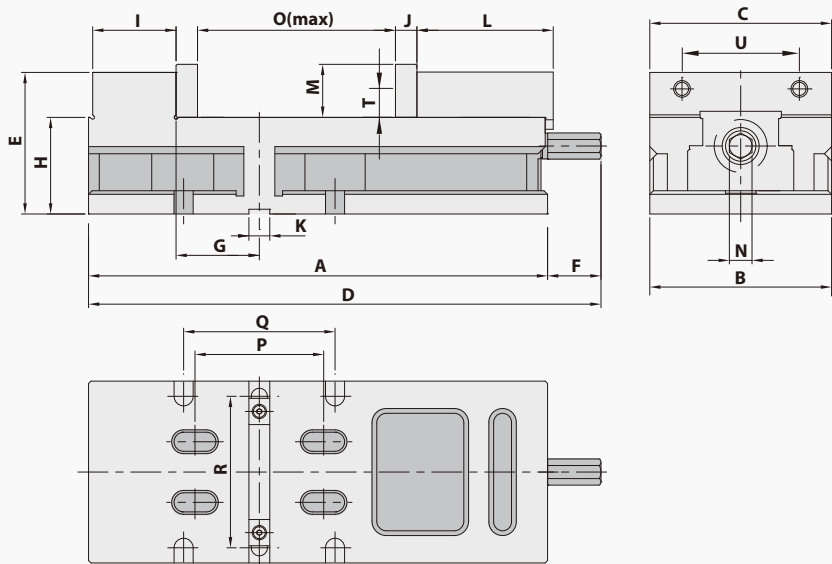
Material of MG/MGR: FCD-60.

基本型單機CNC虎鉗，強調防止工件上浮的功能，提供高標準精度。

立、橫、臥三用。

MG/MGR系列材質: FCD60。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	T	U	WEIGHT 重量
	mm																				
MG, MGR-40G	316	104	102	344	92	28	63.5	63.5	50.8	15	12.7	100	35	14	130	85	101.6	80	17.5	63.5	20kg
MG, MGR-60G	385	152.45	151	431.8	118.7	46.8	69.85	81	69.9	18	18	114.3	44.5	19	163	107.95	127	127	23.8	98.4	31kg

AMC
40, 50, 60, 689 G/HV

LOCKWELL
MACHINE VISE

角固並列式 虎鉗



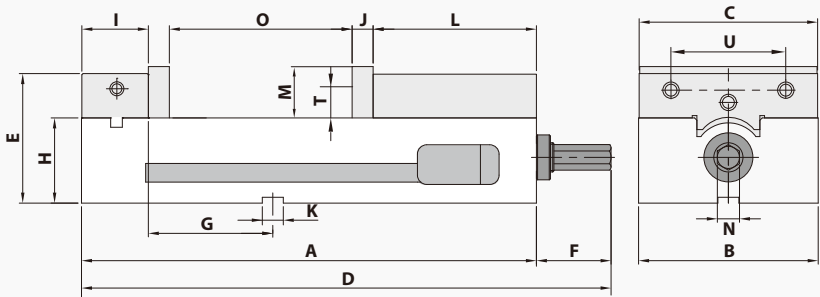
2 operate positions for VMC: Upright and Lay down.

Material of AMC: FCD-60.

立、橫兩用。

AMC系列材質: FCD60。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	WEIGHT 重量
AMC-40G/HV	330	105	102	372	100	42	91.6	68	46.8	21	18	106	40	14	125	17.5	63.5	21kg
AMC-50G/HV	360	128	126	410	103.5	50	82	70	45	17	18	117	38	19	158	20.6	79.4	26kg
AMC-60G/HV	390	154	151	455	111	65	106.7	73	57	18	18	140	44.5	19	148	23.8	98.4	36.5kg
AMC-689G/HV	437	154	151	490	111.025	53	90.5	73.025	52	18	18	123	44.5	19	226	23.8	98.4	36.5kg

MOUNTED SCALE & POSSIBLE
DIRECTIONAL ANGULAR SETTINGS

HPT-60

HYDRAULIC
POWER ANGLE VISE

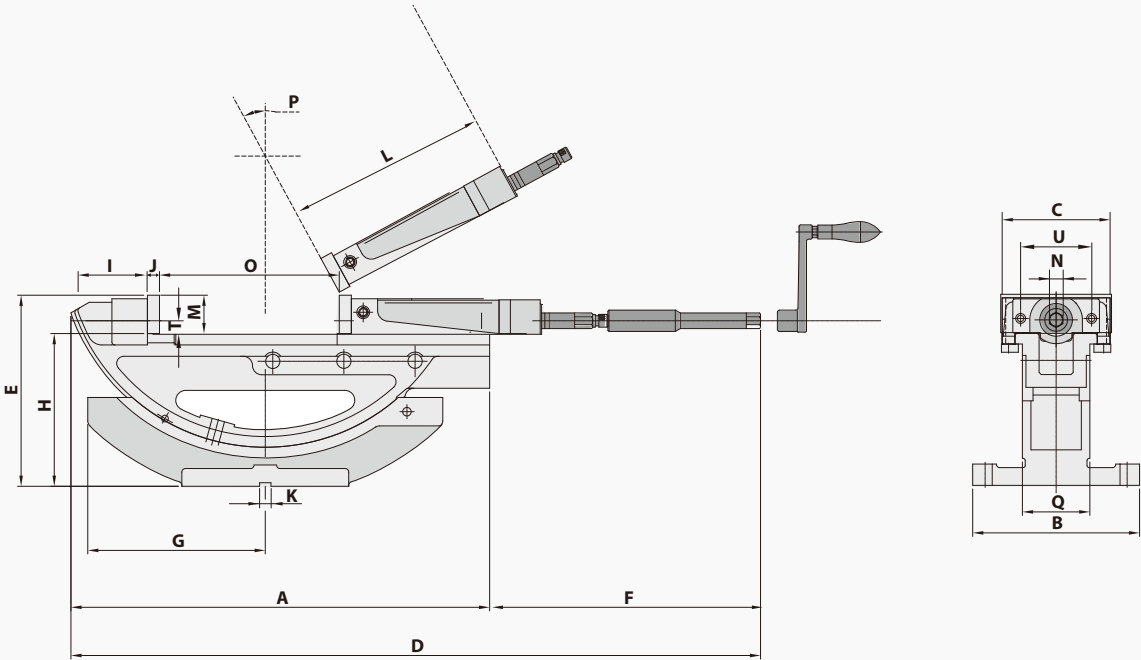
油壓傾斜式 虎鉗



HPT Series is different from other conventional milling vise. It not only follows the functions of HP Series but also makes angular setting in directions possible. The vertical angle can be setting from 0-50° of your need. Precise angular setting in plane can be read from the mounted scale.

不同於其他傳統式虎鉗，不僅有油壓虎鉗的功能，更可依需求設定角度0-50°，並內建刻度尺以精確讀取所要的角度。

DIMENSIONS 尺寸圖



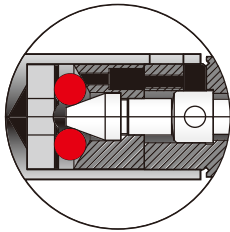
ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Q	P	T	U	CLAMPING FORCE 夾持力	WEIGHT 重量
HPT-60	590	235	152	812	264	222	250	210	97	15	16	175	54	19	300	50°	94.5	18	100	44 KN	75kg

MP
50, 60, 80

Workholding

MECHANICAL
POWER MACHINE VISE

機械倍力增壓 虎鉗



Mechanical Booster

Unique Ball design structure provides powerful clamping forces. Inside Disc-Spring to against shocks and vibrations while operation. High accuracy of tolerance ensures reliability and long durability.

Rigid constructed suitable for machining such as mill, grind, drill and shape. Easy operation could bring different clamping force.

Rigid and tensile vise body. Accuracy beyond others in the market.

Securely grips rectangular and irregularly shaped workpieces, minimizing setup time and lowering production costs.



獨特內藏鋼珠式增壓設計結構提供超穩固夾持力；內建之碟形彈簧(Disc-Spring)牢固工件對抗操作時產生之震顫，進而提高精度。高精準公差確保虎鉗可靠性及長時耐久度。

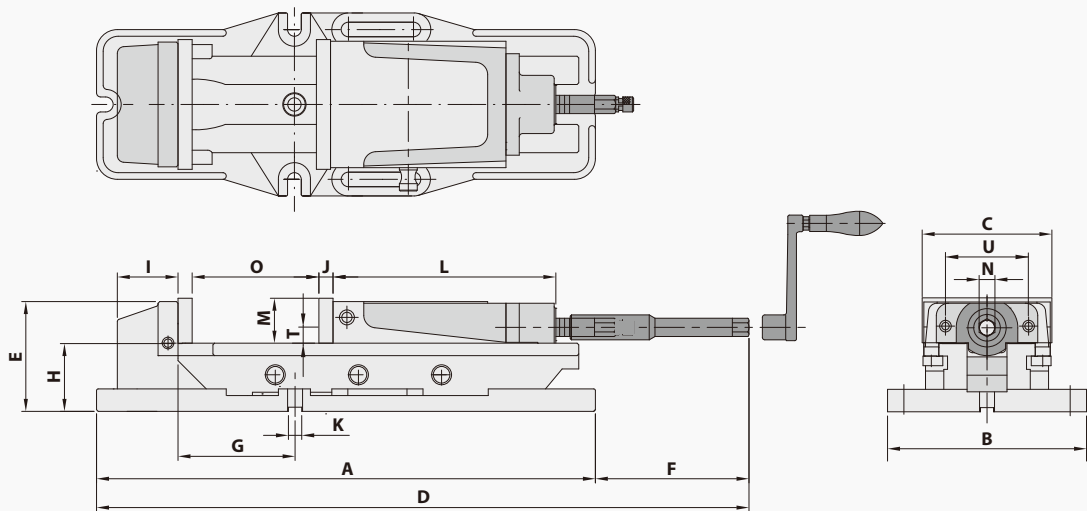
結構穩固，最適用於銑、研磨、鑽孔等加工。

僅需小操作力便可對工件施加不同壓力。

本台之彎曲應力及變形承受力強，精準度高於一般同種虎鉗。

可夾持不規則形狀之各式工件，如矩形、梯形、長條形等；操作容易、節省工時，進而降低生產成本。

DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	T	U	CLAMPING FORCE 夾持力	WEIGHT 重量
MP-50	538	203	130	670	117	132	82	72	82	15	16	175	46	19	220	60	16	85	40KN	37kg
MP-60	608	220	154	800	132	180	140	82	74	17	16	208	54	19	300	80	18	100	50KN	57.5kg
MP-80	700	285	206	900	160	200	118	100	113	21	18	245	62	19	300	100	24.5	120	60KN	104kg

HP
40, 50, 60, 80

Workholding

HYDRAULIC
POWER MACHINE VISE

油壓內藏式 虎鉗



HP Vise is the first Hydraulic Power Vise in Taiwan. The hydraulic booster provides a steady clamping force against shocks and vibrations during the operations, since it fastens the work-piece securely with the aid of the Disc-spring mounted inside. Clamping force will never loose except to be done manually.

Suitable for every machine center. Can be change to non-Booster system.

Special design ensures the workpiece does not deflect and lift.

Rigid and tensile vise body. Accuracy beyond others in the market.

Securely grips rectangular and irregularly shaped workpieces, minimizing setup time and lowering production costs.

台灣首台油壓虎鉗。特殊油壓增壓器提供穩固夾持力；內建之碟形彈簧(Disc-Spring)牢固工件對抗操作時產生之震顫。使用時僅需施加小操作力，便可產生上噸之夾持壓力；加工過程中，夾持力絕不會釋洩，切削加工時絕不會有工件因油壓突然釋洩而產生損害之情形發生。

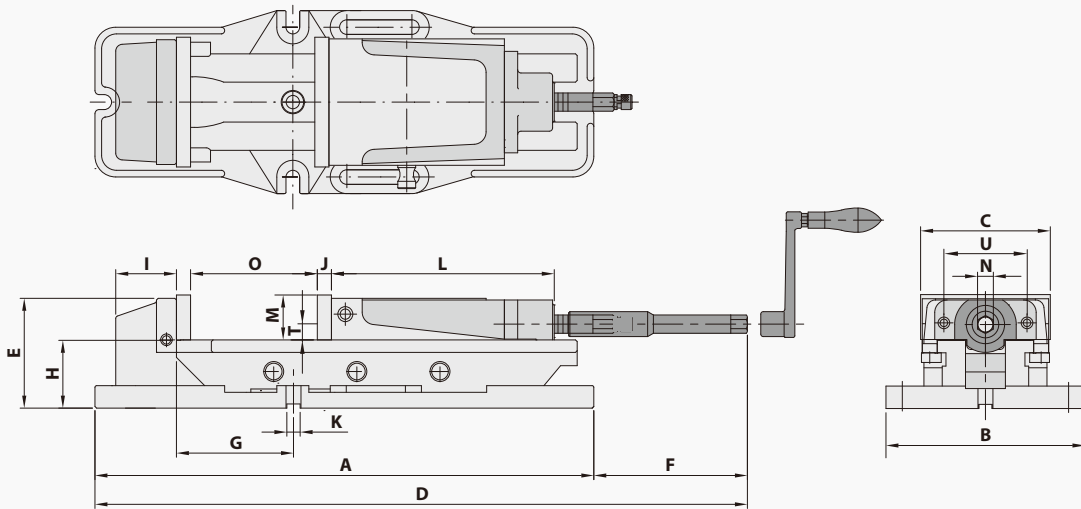
適用於任一加工機，增壓模式可切換為非增壓。

特殊設計消除鉗口板上浮和工件傾斜。

本台之彎曲應力及變形承受力強，精準度高於一般同種虎鉗。

可夾持不規則形狀之各式工件，如矩形、梯形、長條形等；操作容易、節省工時，進而降低生產成本。

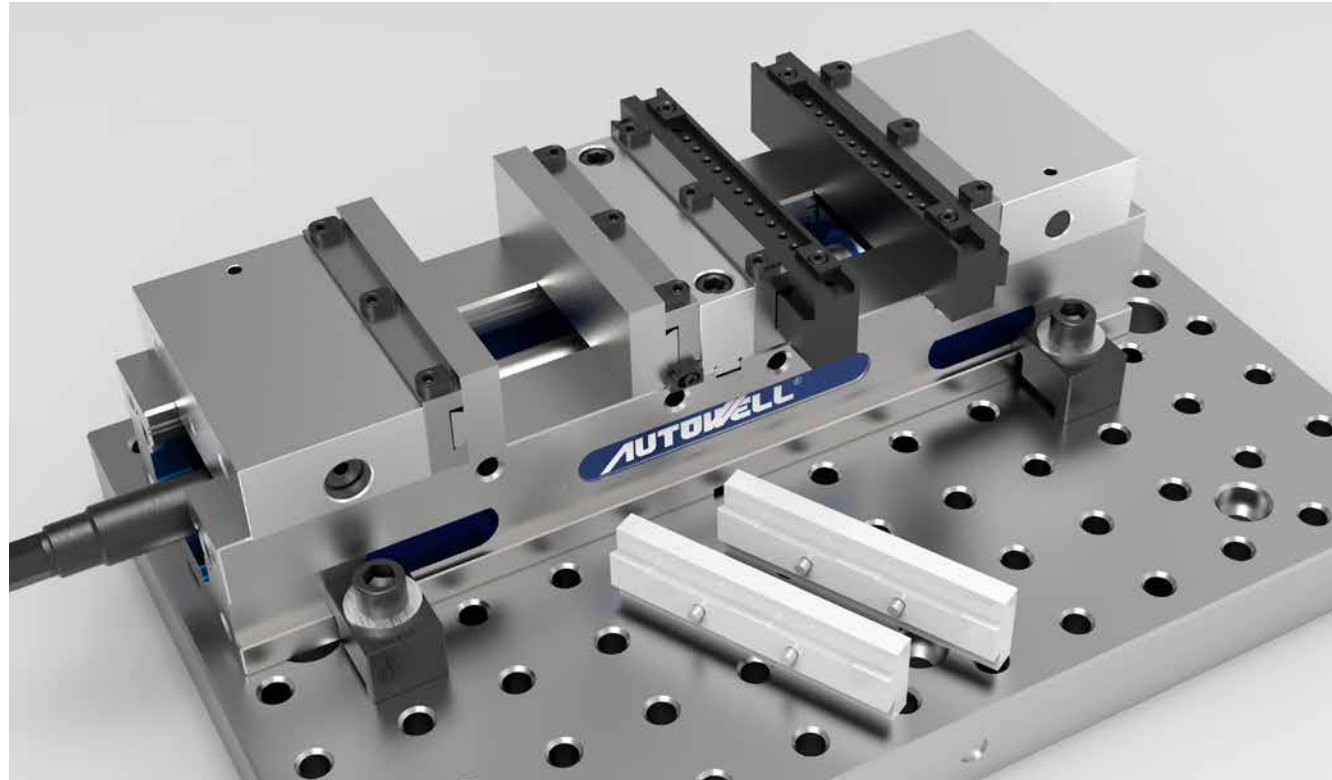
DIMENSIONS 尺寸圖



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	T	U	CLAMPING FORCE 夾持力	WEIGHT 重量
HP-40	435	165	104	525	93	90	63	58	68	11	16	153	36	14	170	/	10	70	25KN	24kg
HP-50	538	203	130	670	117	132	82	72	82	15	16	175	46	19	220	/	16	85	35KN	37kg
HP-60	608	220	154	800	132	180	140	82	74	17	16	208	54	19	300	/	18	100	44KN	57.5kg
HP-80	700	285	206	900	160	200	118	100	113	21	18	245	62	19	300	/	24.5	120	55KN	104kg

SMART JAW
DOVETAILED QUICK
CHANGE VISE JAW
SYSTEM

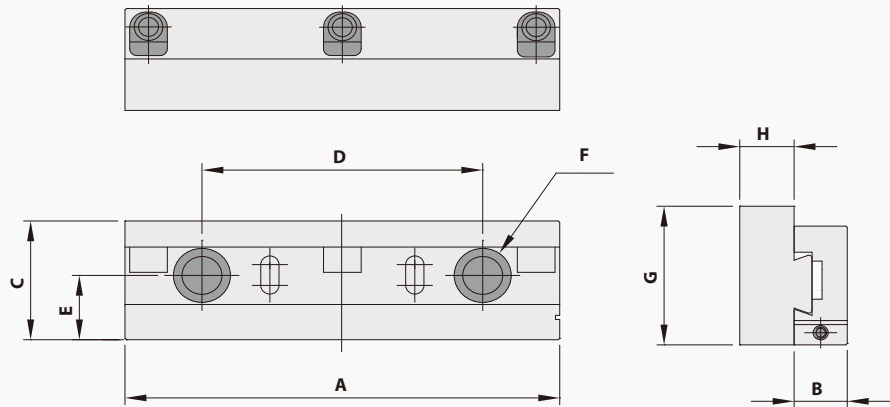
快速更換軟爪系統



EXAMPLE OF APPLICATION 應用實例



DIMENSIONS 尺寸圖



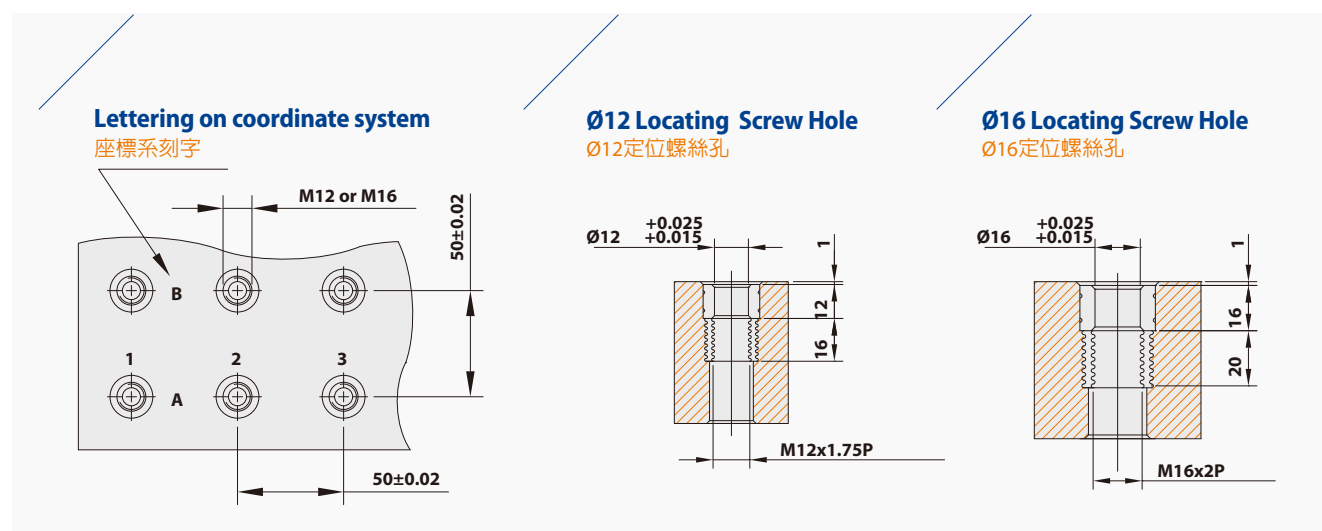
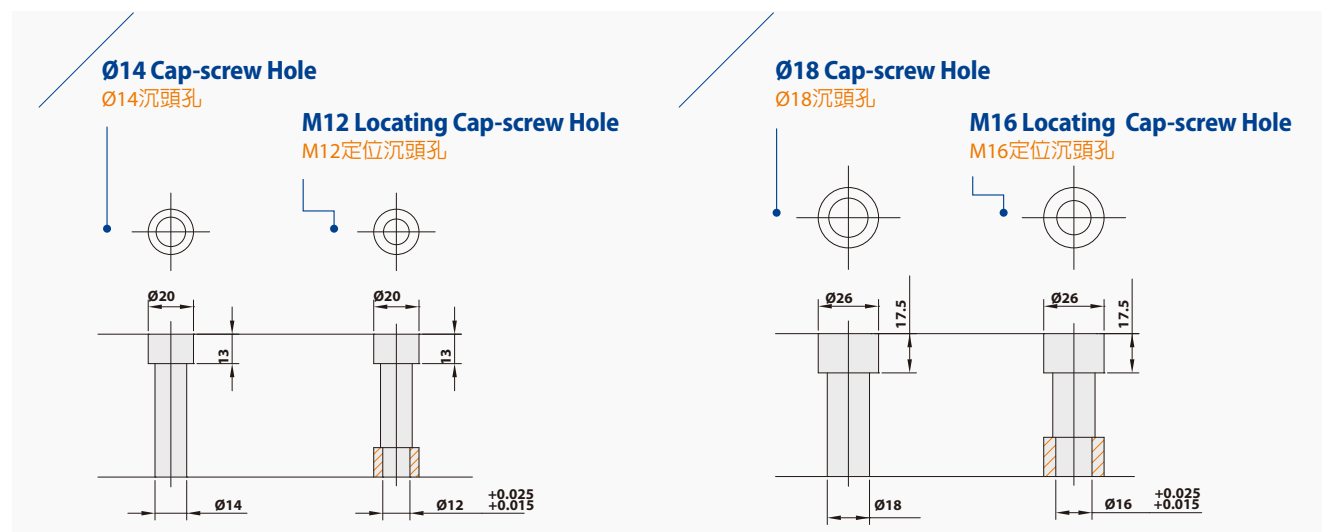
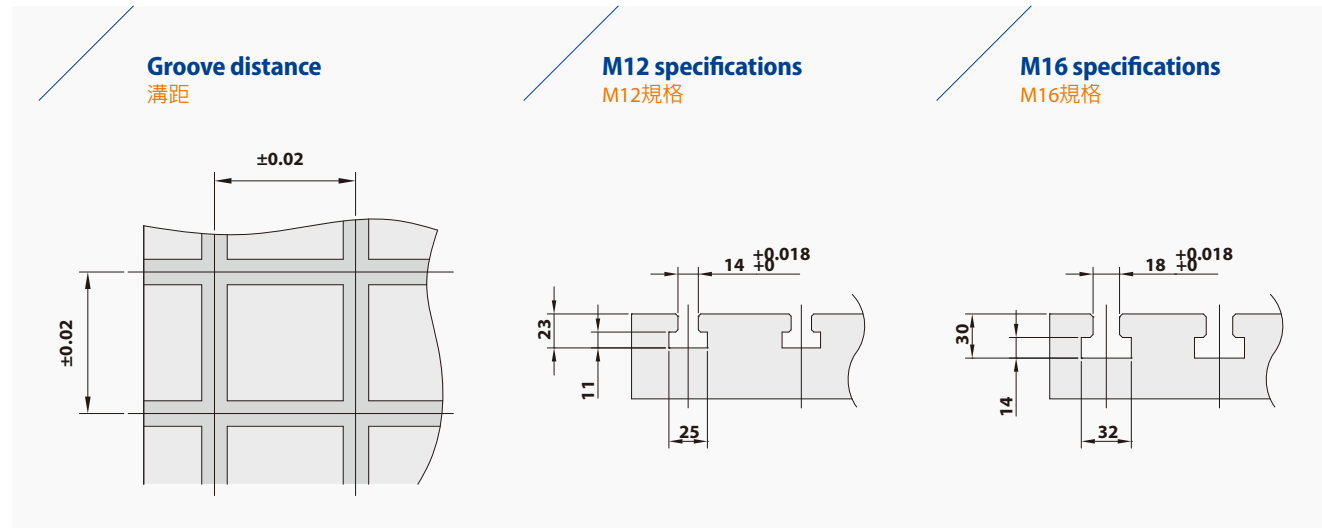
Special Design is Welcome!

特殊尺寸可另外訂製

ITEM NO.	A	B	C	D	E	F	G	H	WEIGHT 重量
	mm								
2ATD409DB01	103	18.64	43.94	63.5	17.5	3/8" - CAP	44.19	12.7	1.5kg
2ATD509DB01	125	18.64	43.94	79.4	23.8	7/16" - CAP	44.19	12.7	1.8kg
2ATD609DB01	152.4	18.64	43.94	98.4	23.8	1/2" - CAP	44.19	12.7	2kg
2ATD809DB01	203	18.64	50.0	120	32	5/8" - CAP	50.8	12.7	2.3kg

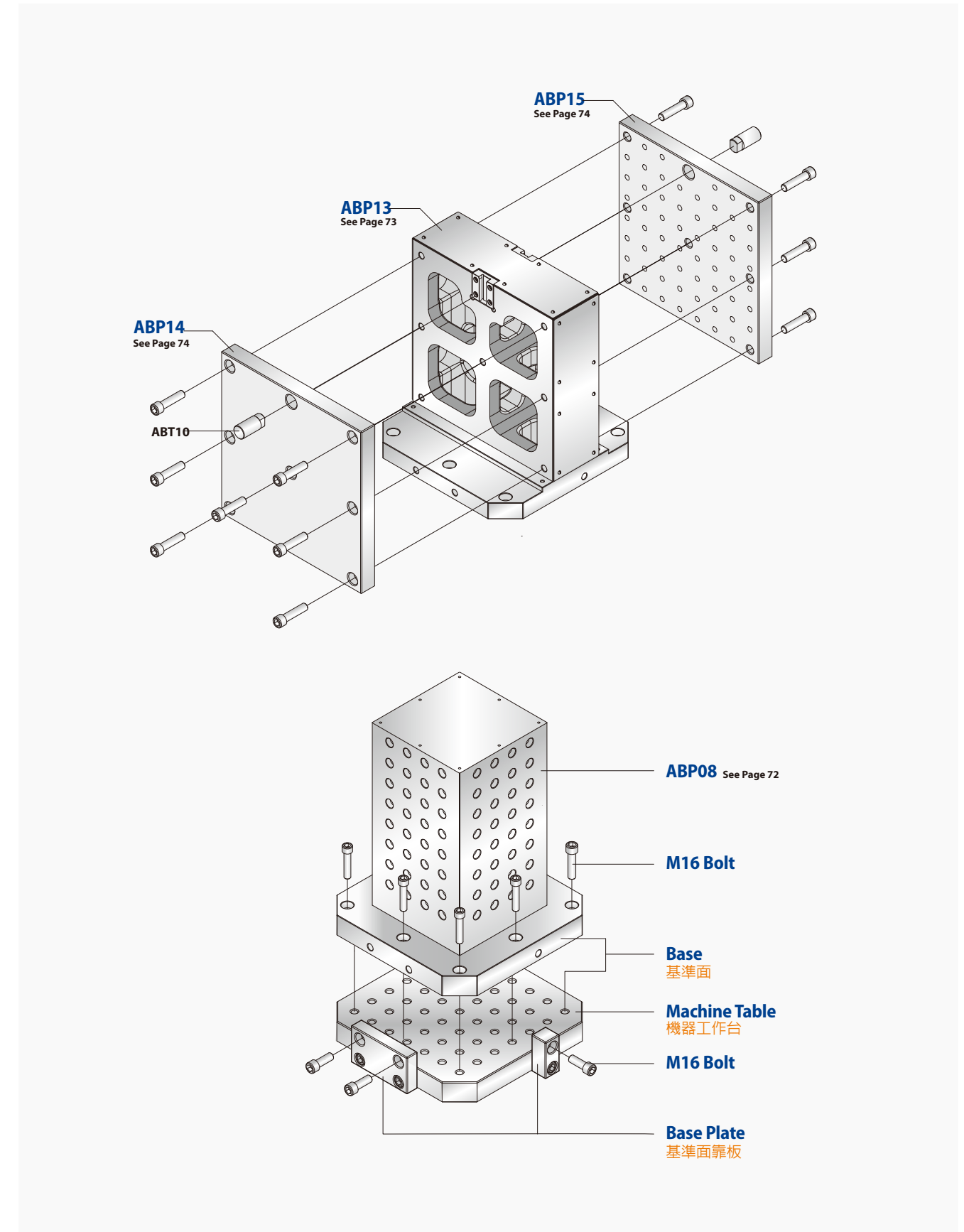
LIST OF HOLES AND T-SLOT STANDARDS

各種孔及T型溝規格列表



DEMONSTRATION OF JIG BLOCK

基座使用範例



ALR-6500
TOMBSTONE
虎鉗組合平台

The maximum clamping force for ALR-6500 is 4500KN.
Rigid and tensile ductile iron FCD-60(80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy.

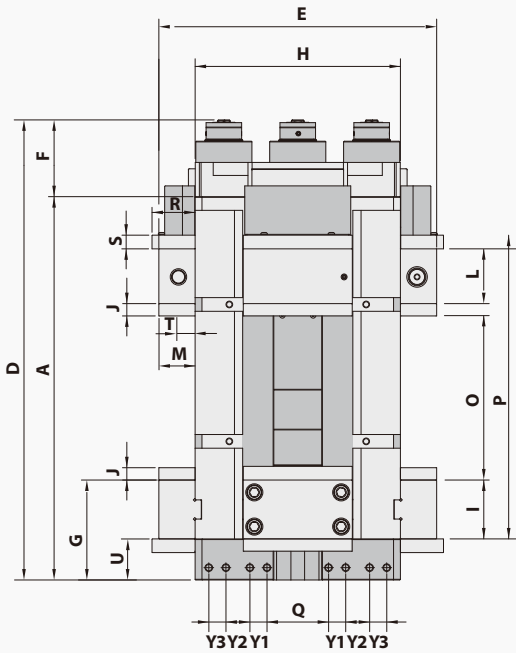
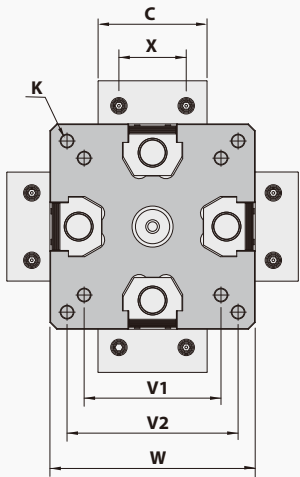
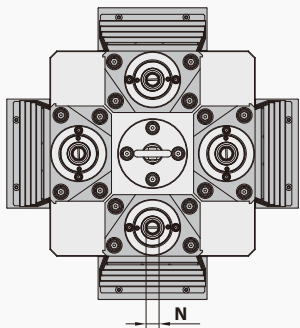
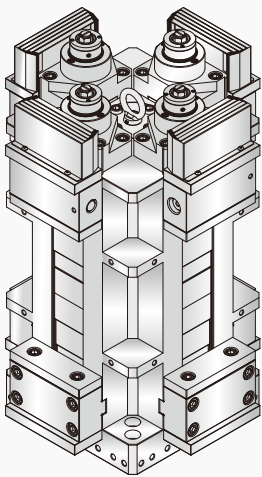
ALR-6500, 最大夾持力為4500KN
本體使用強而有力的球狀石墨鑄鐵FCD60(80,000PSI)抗張力強，不易變形，滑動面均經高周波熱處理HS65度以上



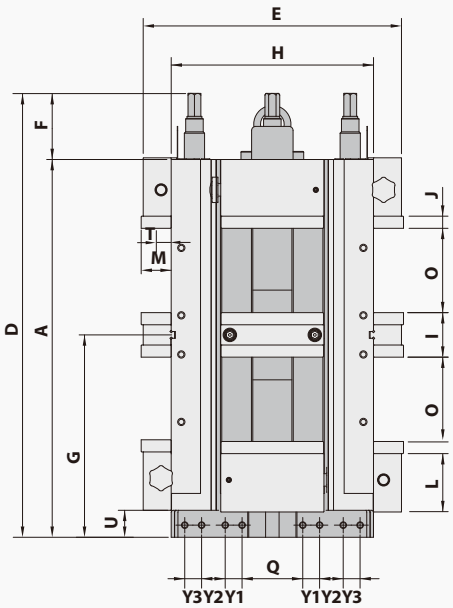
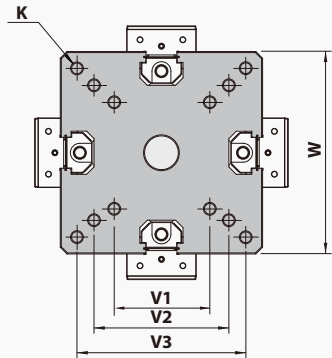
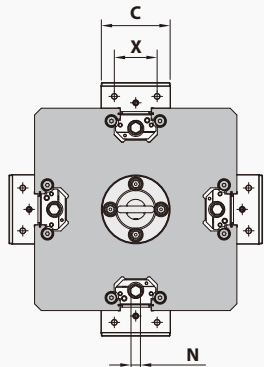
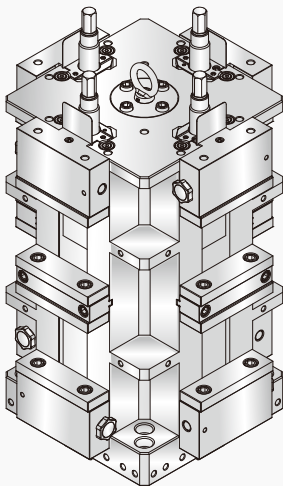
TLR-4500, 6500
DOUBLE CLAMPING
TOMBSTONE
雙虎鉗組合平台

Rigid and tensile ductile iron FCD-60(80,000PSI) vise body.
Slide surface flame hardened to HS65° to maintain the accuracy.

本體使用強而有力的球狀石墨鑄鐵。
FCD60(80,000PSI)抗張力強，不易變形，滑動面均經高周波熱處理HS65度以上。

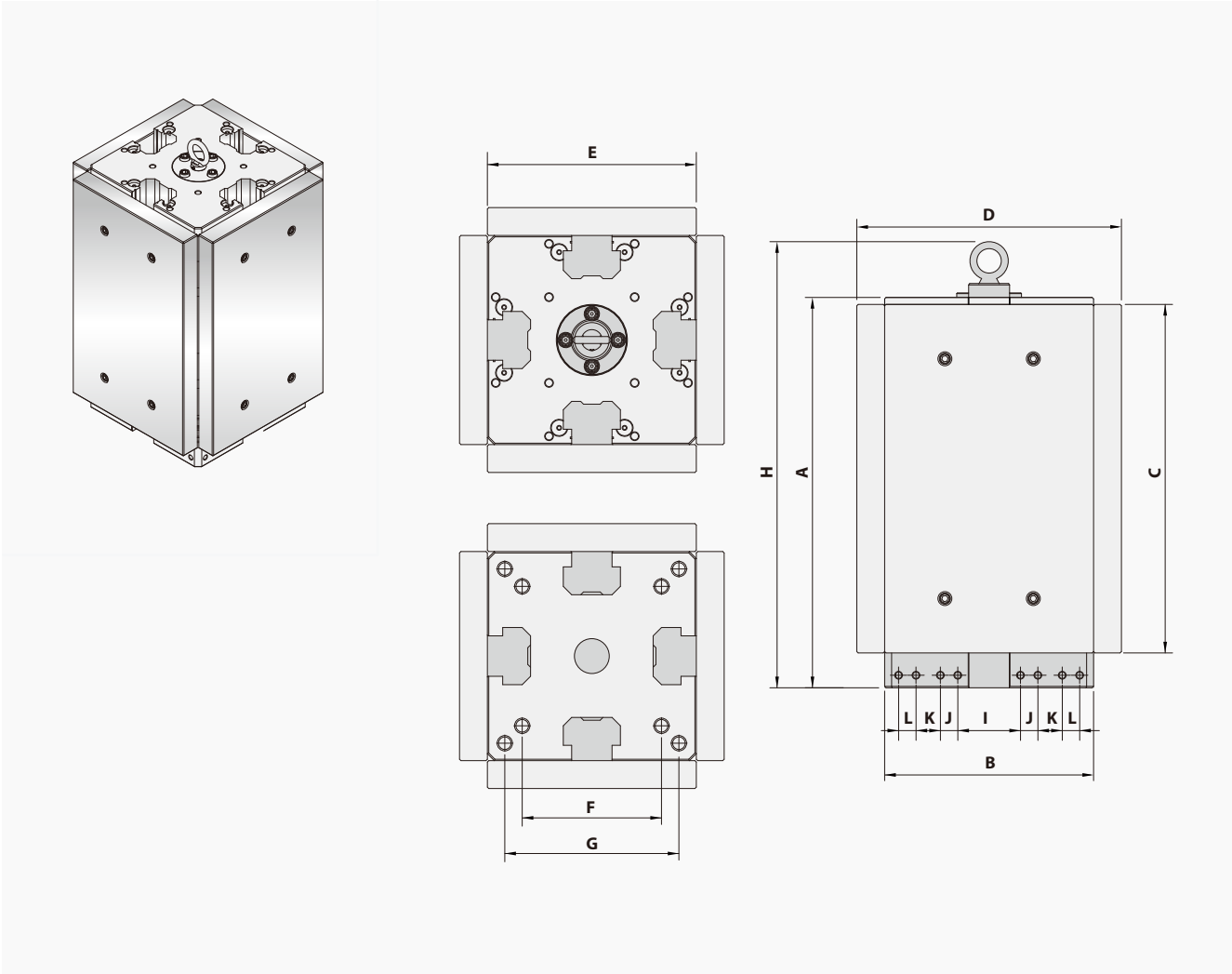


ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V1	V2	W	X	Y1	Y2	Y3	WEIGHT
ALR-6500	560	-	159.2	680	406	120	146	300	86	18	M16	80	53	19	330	514	90	63	20	26.5	50	200	250	300	98.4	25	35	25	275kg



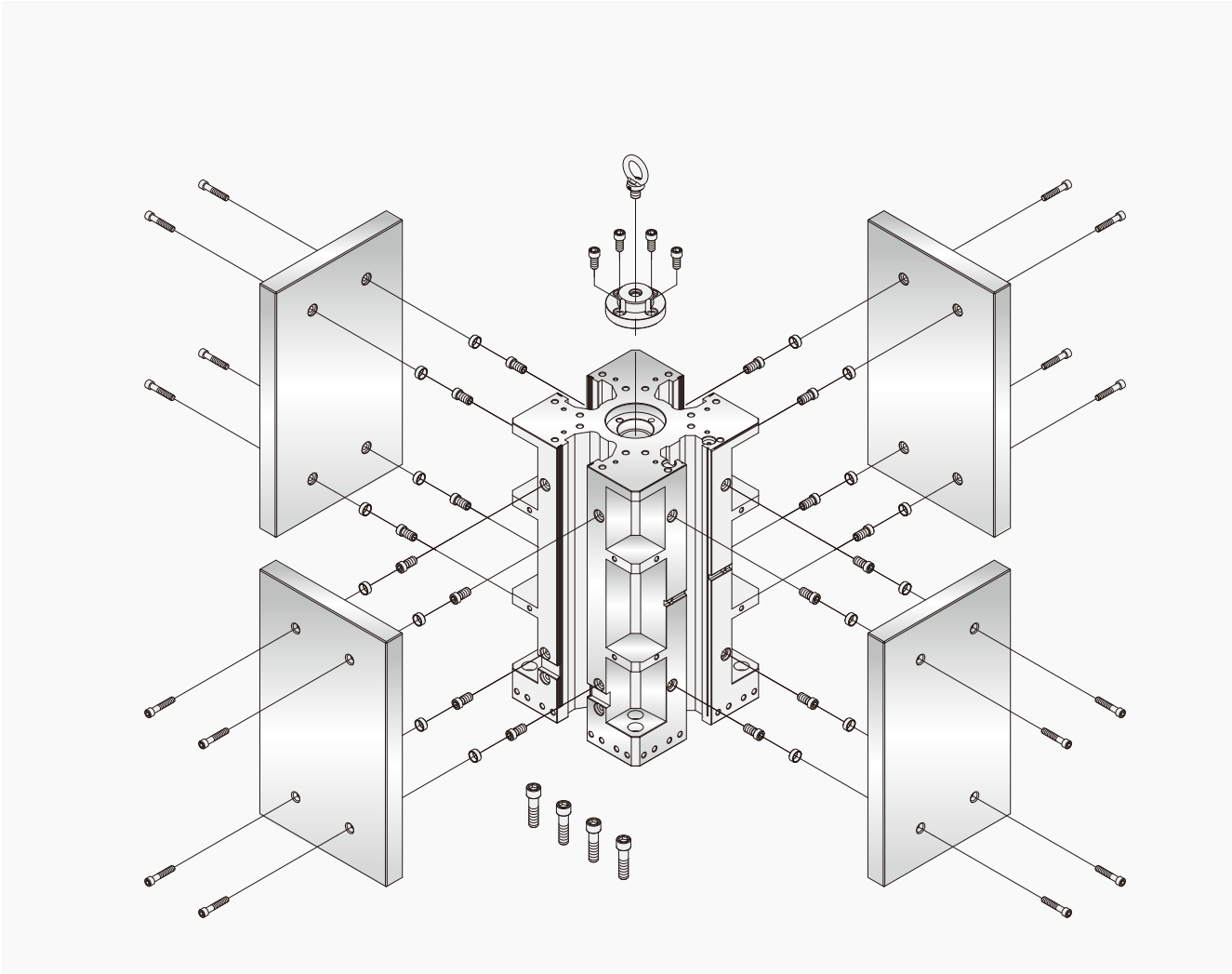
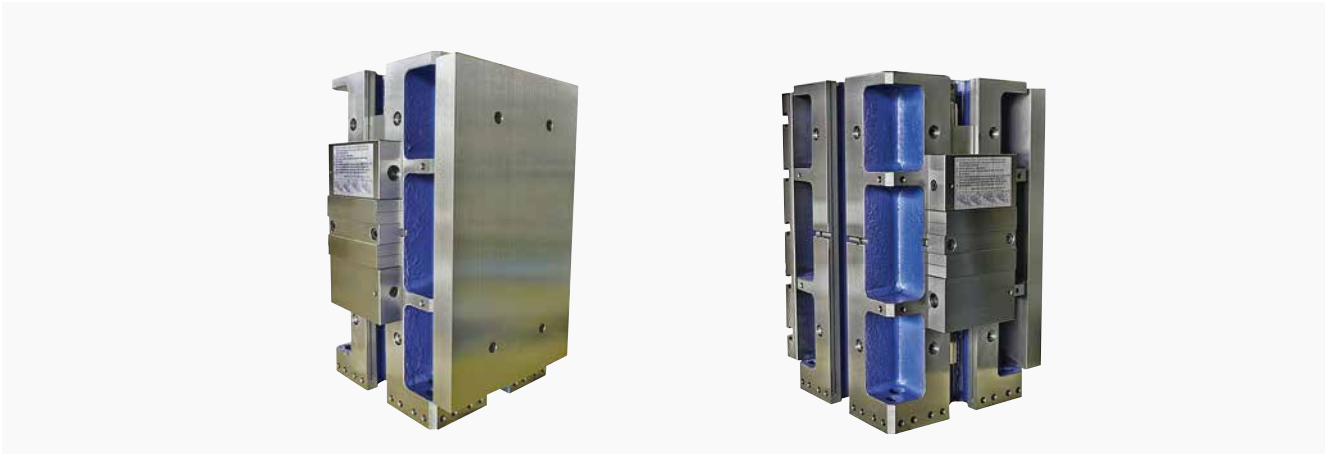
ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Q	R	S	T	U	V1	V2	V3	W	X	Y1	Y2	Y3	WEIGHT
TLR-4400	445	-	102	499	366	54	242.5	300	55	15	M16	69	38	14	90	90	-	-	17.5	40	160	200	250	300	63.5	25	35	25	220kg
TLR-6500	560	-	152	660	383	100	300	300	66	18	M16	86.5	44.5	19	125	90	-	-	23.8	50	-	200	250	300	98.4	25	35	25	270kg

TLR
TOMBSTONE
組合機台



ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	WEIGHT 重量
TLR0010101	560	300	500	380	300	200	250	630	90	25	35	25	395kg

TLR
TOMBSTONE EXAMPLES
組合機台範例



Assembly Drawing of Tombstone
組合機台裝配圖

ALQ
160,200/V2

2 UPRIGHTS MOUNTING
MC MECHANICAL LONG
POWER-TYPE
PRECISION VISE

二連座加長型倍力增壓式 精密虎鉗

MC Mechanical Long Power vise with large opening and lockwell Anti-Lift Mechanism is most suitable for VMC & HMC. This vise owns 3 patents and has the honor to get TAIWAN EXCELLENCE 2010.

Force Adjustable System(patented) makes the force setting easier & steadier, moreover, it has constant pressure function & over pressure protection.

Patented Mechanical Booster is fully sealed against dust, chips and cutting fluid for extended life time.

Lockwell Anti-Lift mechanism(patented) ensures the workpiece does not deflect and lift.

Unique Out-jaw design increase the clamping capacity.

Rigid and tensile ductile iron FCD60(80,000PSI) vise body. Slide surface flame hardness to HS65° to maintain the accuracy. SC50C jaw-plate has been Carburizing heat treated the hardness to HR54°.

Unique design facilitates the evacuation of chips.

向量式[LOCKWELL]大開口精密機械倍力增壓虎鉗，適用臥式綜合銑切削加工中心機上使用，本產品有三項專利在案，並於2010年獲得臺灣精品獎殊榮。

專利壓力調整機構讓虎鉗可以隨時設定夾持壓力且有定壓及過壓保護裝置。

專利倍力機構擁有密封式防止鐵屑與切削液進入之設計，以增加倍力機構使用年限。

向量式[LOCKWELL]專利設計，使工件產生向下壓力效果，以消除傳統虎鉗操作時所產生之傾斜與偏移。

首創獨特外鉗口設計，加大夾持範圍。

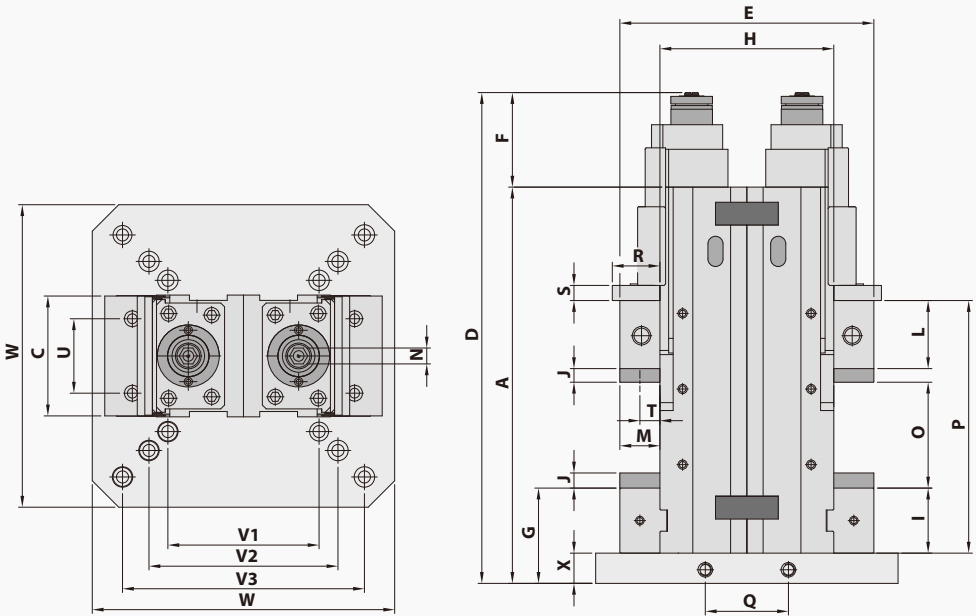
虎鉗本台使用強而有力的球狀石墨鑄鐵FCD-60(80,000PSI)抗張力強，不易變形；本台滑動面均經高週波硬化熱處理HS65°以上，強化滑動面的耐磨性及精度；鉗口均才用S50C材質，再經滲碳熱處理使其硬度達HRC54°以上。

獨特防屑與排屑設計，防止鐵屑進入虎鉗內部並容易排出虎鉗內部，延長使用期限。

V2



DIMENSIONS 尺寸圖



Special Design is Welcome!

特殊尺寸可另外訂製

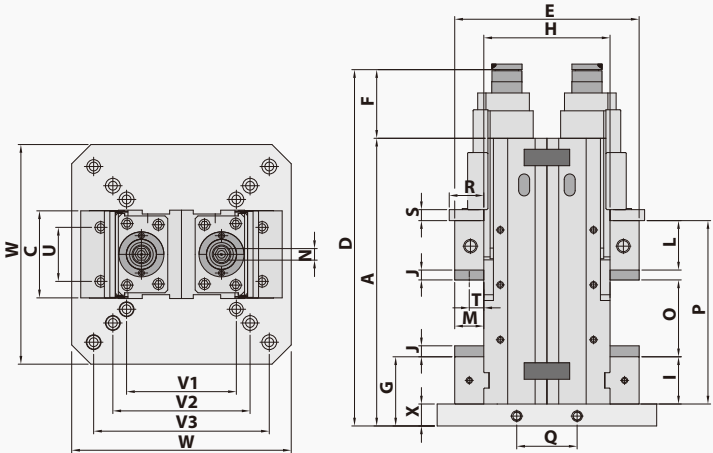
ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	V2	V3	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
ALQ-125G/HV	553	159.2	673	336	120	126	230	86	18	80	53	19	330	514	110	63	20	26.5	98.4	200	250	320	400	40	45KN	198kg
ALQ-160G/HV	622.5	199.5	750.5	356	128	141	240	101	18	95	58	19	367.5	581.5	110	73	20	29	120	200	250	320	400	40	50KW	265kg

AVQ-100,125,160,200/V2

2 UPRIGHTS MOUNTING MC MECHANICAL
POWER-TYPE PRECISION VISE

二連座倍力增壓式 精密虎鉗

V2



Special Design is Welcome!

特殊尺寸可另外訂製

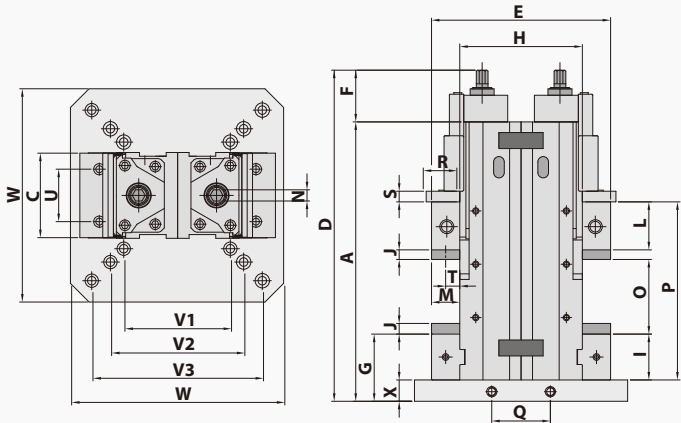
ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	V2	V3	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
AVQ-100V2	362	102	466	260	104	113	170	73	15	86.5	45	14	140	314.5	100	55	17	22.5	58	160	200	-	320	40	25KN	103kg
AVQ-125V2	428	124.7	533	306	105	118	200	78	15	87.5	53	14	201	381.5	100	63	20	26.5	60	160	200	-	320	40	35KN	135kg
AVQ-160V2	523	159.2	643	336	120	126	230	86	18	80	53	14	295	479	110	63	20	26.5	98.4	200	250	320	400	40	45KN	188kg
AVQ-200V2	572.5	199.5	700.5	356	128	141	240	101	18	95	58	14	320	534	110	73	20	29	120	200	250	320	400	40	50KN	249kg

AVL-100,125,160,200,235/V2

2 UPRIGHTS MOUNTING MC LOCKWELL
SUPER-TYPE PRECISION VISE

二連座向量式 精密虎鉗

V2



Special Design is Welcome!

特殊尺寸可另外訂製

ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	V2	V3	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
AVL-100V2	362	102	466	260	104	113	170	73	15	86.5	45	19	140	314.5	100	55	17	22.5	58	160	200	-	320	40	/	97kg
AVL-125V2	428	124.7	533	306	105	118	200	78	15	87.5	53	19	201	381.5	100	63	20	26.5	60	160	200	-	320	40	/	129kg
AVL-160V2	523	159.2	643	336	120	126	230	86	18	80	53	21	295	479	110	63	20	26.5	98.4	200	250	320	400	40	/	188kg
AVL-165V2	553	159.2	673	336	120	126	230	86	18	80	53	21	330	514	110	63	20	26.5	98.4	200	250	320	400	40	/	198kg
AVL-200V2	572.5	199.5	700.5	356	128	141	240	101	18	95	58	19	320	534	110	73	20	29	120	200	250	320	400	40	/	242kg
AVL-235V2	622.5	199.5	750.5	356	128	141	240	101	18	95	58	19	367.5	581.5	110	73	20	29	120	200	250	320	400	40	/	256kg

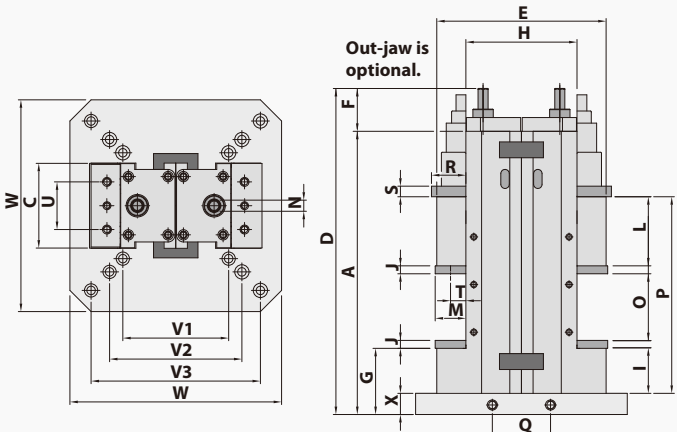
AVC-100, 130, 160, 165, 200 V2

2 UPRIGHTS MOUNTING WELLOCK MC
MECHANICAL-TYPE PRECISION VISE

二連座角固式機械 精密虎鉗

V2

DIMENSIONS 尺寸圖



Special Design is Welcome!

特殊尺寸可另外訂製

ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	V2	V3	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
AVC-100V2	390	100	470	260	80	105	170	65	15	105	48	19	150	330	100	60	20	22	60	160	200	-	320	40	/	85kg
AVC-130V2	455	130	535	294	80	110	190	70	15	115	55	19	201	400	100	60	20	25	90	160	200	-	320	40	/	113kg
AVC-160V2	535	160	616	320	81	125	210	85	15	130	58	19	250	480	110	65	20	25	90	200	250	320	400	40	/	150kg
AVC-165V2	600	160	681	320	81	125	210	85	15	130	58	19	310	545	110	65	20	25	90	200	250	320	400	40	/	168kg
AVC-200V2	620	200	710	340	90	130	220	90	18	150	63	19	290	550	110	80	30	28	120	200	250	320	400	40	/	197kg

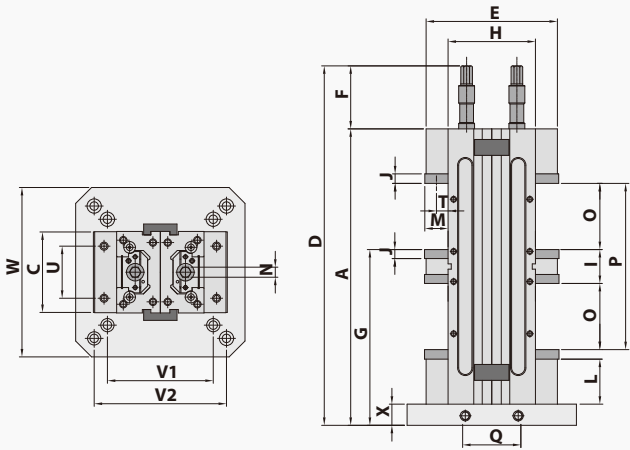
TLD-100, 160 V2

2 UPRIGHTS MOUNTING LOCKWELL DOUBLE
STATION-TYPE PRECISION VISE

二連座新雙鵬式 精密虎鉗

V2

DIMENSIONS 尺寸圖



Special Design is Welcome!

特殊尺寸可另外訂製

ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	T	U	V1	V2	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
TLD-100V2	445	102	499	193	54	270	127	55	15	69	38	14	90	235	100	17.5	63.5	160	200	320	40	/	84kg
TLD-125V2	560	152	576	248.1	16	333	165.1	66	18	86.5	44.5	19	125	316	100	23.8	98.4	160	200	320	40	/	147kg

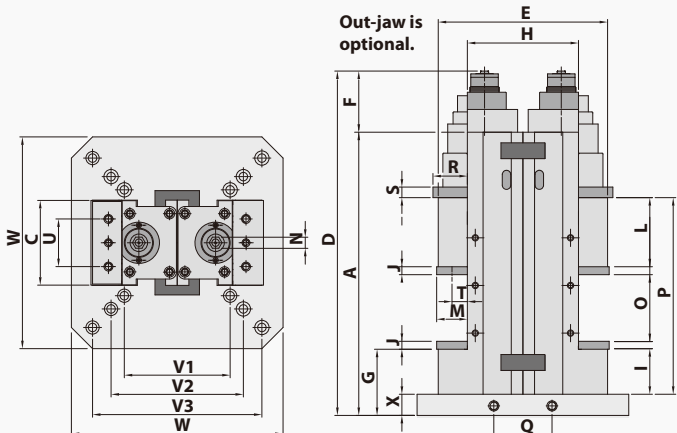
AVM-130, 160, 165, 200 V2

2 UPRIGHTS MOUNTING WELLOCK MC
MECHANICAL POWER-TYPE PRECISION VISE

二連座角固式精密機械倍力 增壓虎鉗

V2

DIMENSIONS 尺寸圖



Special Design is Welcome!

特殊尺寸可另外訂製

ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	V2	V3	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
AVM-130V2	455	130	565	294	110	110	190	70	15	115	55	19	201	400	100	60	20	25	90	160	200	-	320	40	36KN	119kg
AVM-160V2	535	160	650	320	115	125	210	85	15	130	58	19	245	480	110	65	20	25	90	200	250	320	400	40	40KN	156kg
AVM-165V2	600	160	715	320	115	125	210	85	15	130	58	19	310	545	110	65	20	25	90	200	250	320	400	40	40KN	174kg
AVM-200V2	620	200	748	340	128	130	220	90	18	150	63	19	290	550	110	80	30	28	120	200	250	320	400	40	50KN	220kg

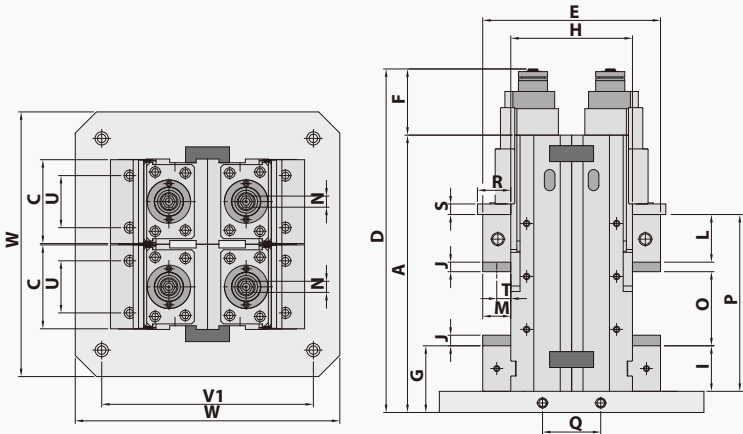
ALQ-160, 200 V4

4 UPRIGHTS MOUNTING MC MECHANICAL
LONG POWER-TYPE PRECISION VISE

四連座加長型倍力增壓式虎鉗

V4

DIMENSIONS 尺寸圖



Special Design is Welcome!

特殊尺寸可另外訂製

ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
ALQ-160HV	553	159.2	673	336	120	126	230	86	18	80	53	19	330	514	150	63	20	26.5	98.4	200	500	40	45KN	377kg
ALQ-200HV	622.5	199.5	750.5	356	128	141	240	101	18	95	58	19	367.5	581.5	150	73	20	29	120	200	500	40	50KN	505kg

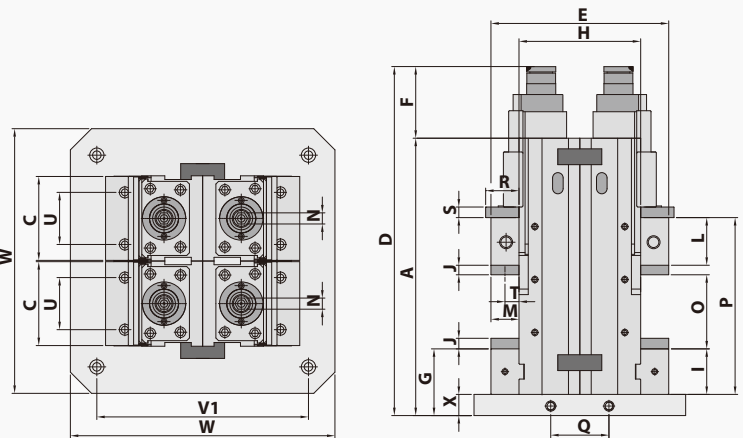
AVQ-100, 125, 160, 200 V4

4 UPRIGHTS MOUNTING MC MECHANICAL
POWER-TYPE PRECISION VISE

四連座倍力增壓式精密虎鉗

V4

DIMENSIONS 尺寸圖



Special Design is Welcome!

特殊尺寸可另外訂製

ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
ALQ-100V4	362	102	466	260	104	113	170	73	15	86.5	45	14	140	314.5	100	55	17	22.5	58	320	400	40	25KN	166kg
ALQ-125V4	428	124.7	533	306	105	118	200	78	15	87.5	53	14	201	381.5	100	63	20	26.5	60	320	400	40	35KN	230kg
ALQ-160V4	523	159.2	634	336	120	126	230	86	18	80	53	14	295	479	110	63	20	26.5	98.4	400	500	40	45KN	357kg
ALQ-200V4	572.5	199.5	700.5	356	128	141	240	101	18	95	58	14	320	534	110	73	20	29	120	400	500	40	50KN	473kg

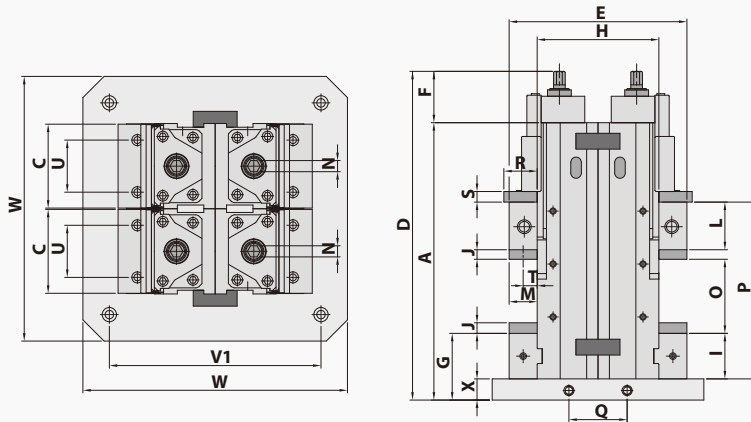
AVL-100, 125, 160, 165, 200, 235 V4

4 UPRIGHTS MOUNTING MC LOCKWELL
SUPER-TYPE PRECISION VISE

四連座向量式精密虎鉗

V4

DIMENSIONS 尺寸圖



Special Design is Welcome!

特殊尺寸可另外訂製

ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
AVL-100V4	362	102	466	260	104	113	170	73	15	86.5	45	14	140	314.5	100	55	17	22.5	58	320	400	40	/	155kg
AVL-125V4	428	124.7	533	306	105	118	200	78	15	87.5	53	14	201	381.5	100	63	20	26.5	60	320	400	40	/	219kg
AVL-160V4	524	159.2	644	336	120	126	230	86	18	80	53	21	295	479	110	63	20	26.5	98.4	400	500	40	/	360kg
AVL-165V4	584	159.2	704	336	120	126	230	86	18	80	53	21	320	514	110	63	20	26.5	98.4	400	500	40	/	380kg
AVL-200V4	562.5	199.5	690.5	356	128	141	240	101	18	95	58	19	320	534	110	73	20	29	120	400	500	40	/	468kg
AVL-235V4	622.5	199.5	750.5	356	128	141	240	101	18	95	58	19	367.5	518.5	110	73	20	29	120	400	500	40	/	496kg

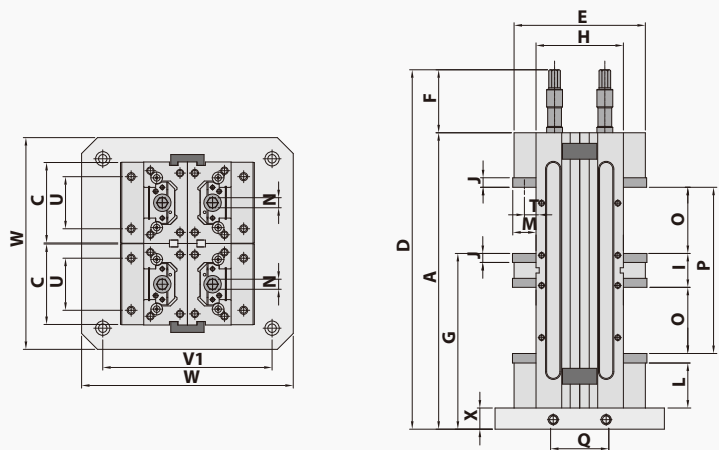
TLD-100, 160 V4

4 UPRIGHTS MOUNTING LOCKWELL DOUBLE
STATION-TYPE PRECISION VISE

四連座向量式精密虎鉗

V4

DIMENSIONS 尺寸圖



Special Design is Welcome!

特殊尺寸可另外訂製

ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
TLD-100V4	445	102	499	193	54	270	127	55	15	69	38	14	90	235	110	-	-	17.5	63.5	320	400	40	/	126kg
TLD-160V4	560	152	576	248.1	16	333	165.1	66	18	86.5	44.5	19	125	316	110	-	-	23.5	98.4	320	400	40	/	254kg

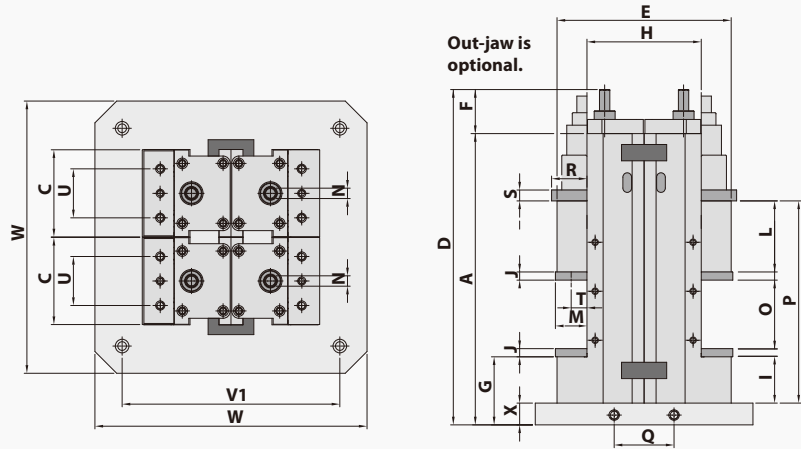
AVC-100, 130, 160, 165, 200 V4

4 UPRIGHTS MOUNTING WELLOCK MC
MACHINE-TYPE PRECISION VISE

四連座角固式機械精密虎鉗

V4

DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
AVC-100V4	390	100	470	260	80	105	170	65	15	105	48	19	150	330	100	55	20	22	60	320	400	40	/	131kg
AVC-125V4	455	130	535	294	80	110	190	70	15	115	55	19	201	400	100	60	20	25	60	320	400	40	/	187kg
AVC-160V4	535	160	616	320	81	125	210	85	18	130	58	19	245	480	110	65	20	25	90	400	500	40	/	281kg
AVC-165V4	600	160	681	320	81	125	210	85	18	130	58	19	310	545	110	65	20	25	90	400	500	40	/	317kg
AVC-200V4	620	200	710	340	90	130	220	90	18	150	63	19	290	550	110	80	30	28	120	400	500	40	/	373kg

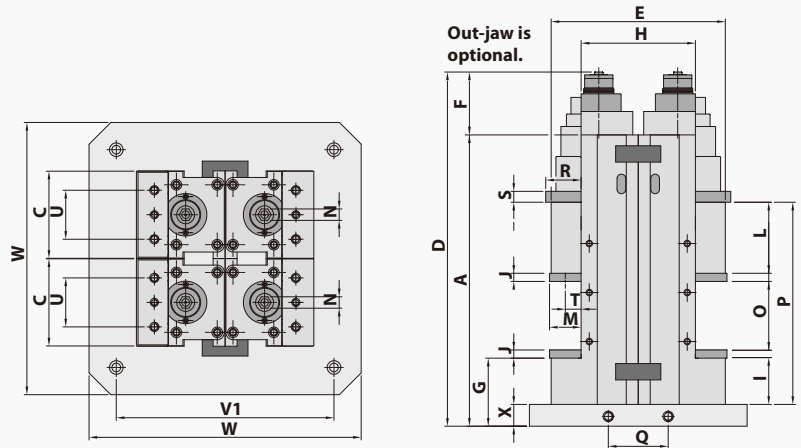
AVM-130, 160, 165, 200 V4

4 UPRIGHTS MOUNTING WELLOCK MC
MECHANICAL POWER-TYPE PRECISION VISE

四連座角固式精密機械倍力增壓虎鉗

V4

DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R	S	T	U	V1	W	X	CLAMPING FORCE 夾持力	WEIGHT 重量
AVM-130V4	455	102	565	294	110	110	190	70	15	115	55	19	201	400	100	60	20	25	90	320	400	40	35KN	119kg
AVM-160V4	635	160	650	320	115	125	210	85	15	130	58	19	245	480	110	65	20	25	90	400	500	40	43KN	156kg
AVM-165V4	600	160	715	320	115	125	210	85	15	130	58	19	310	545	110	65	20	25	90	400	500	40	43KN	174kg
AVM-200V4	620	200	748	340	128	130	220	90	18	150	63	19	290	550	110	80	30	28	120	400	500	40	60KN	202kg

ABP-01

BASE PLATE

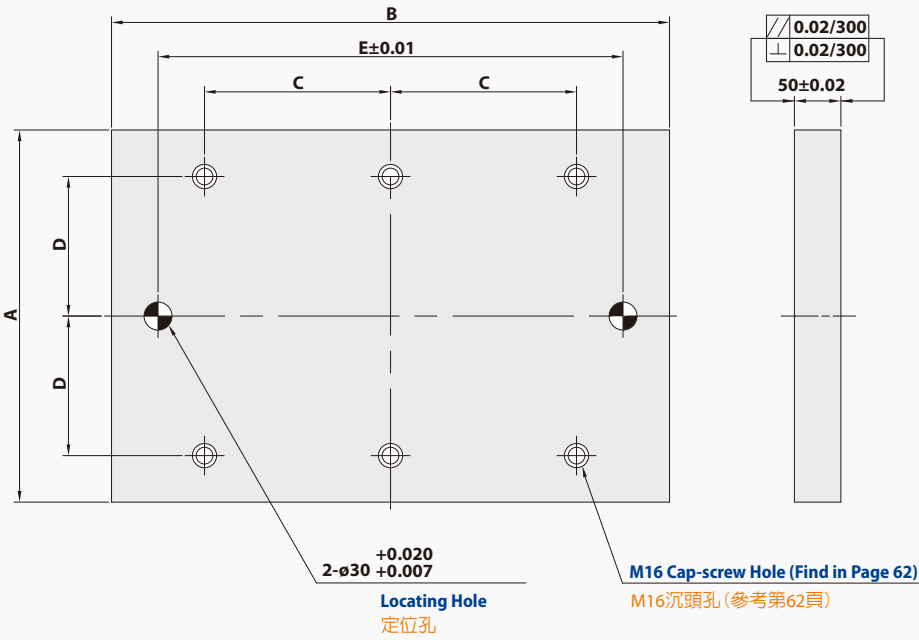
MC基板

MC Base Plate
Material: FC30
Heat treated: Normalized
Application: Vertical Machining Center
Features: Ready to accept a hole pattern for your special jig.

MC基板
材質：FC30
熱處理：燒鈍
用途：適用於立式MC
特長：可依實際需要，自行專孔加工製作專用治具。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	B	C	D	E	WEIGHT 重量
ABP01-50400-0600	400	600	200	150	500	88kg
ABP01-50500-0600	500	600	200	200	500	106kg
ABP01-50600-0600	600	600	200	250	500	127kg
ABP01-50400-0800	400	800	300	150	700	113kg
ABP01-50450-0900	450	900	350	175	800	142kg
ABP01-50500-1000	500	1000	400	200	900	176kg
ABP01-50600-1200	600	1200	500	250	1100	265kg

ABP-02
BASE PLATE

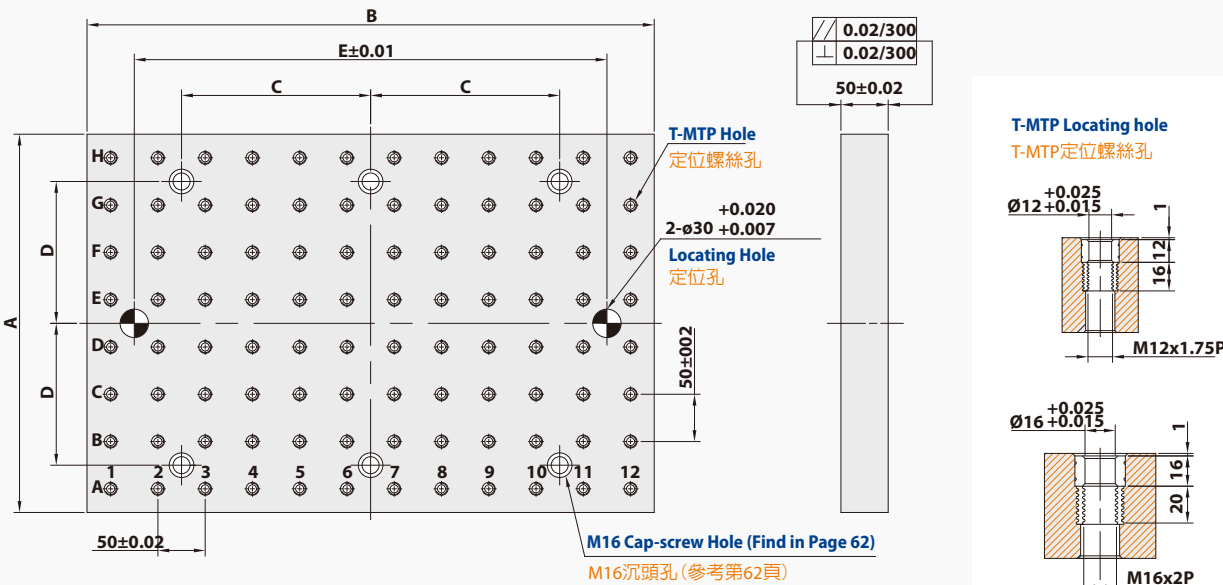
MC基板

MC Base Plate
Material: FC30
Heat treated: Normalized
Application: Vertical Machining Center
Features: Alignment bushing & thread insert at every hole location, easily adapts to standardized jig components.

材質：FC30
熱處理：燒鈍
用途：適用於立式MC
特長：以孔定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

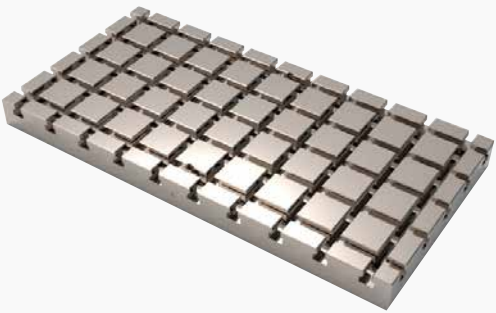
ITEM NO.	A	B	C	D	E	T	WEIGHT 重量
ABP02-50400-0600-12	400	600	200	150	500	M12	90kg
ABP02-50500-0600-12	500	600	200	200	500	M12	112kg
ABP02-50600-0600-12	600	600	200	250	500	M12	134kg
ABP02-50400-0800-12	400	800	300	150	700	M12	109kg
ABP02-50450-0900-12	450	900	350	175	800	M12	138kg
ABP02-50500-1000-12	500	1000	400	200	900	M12	165kg
ABP02-50600-1200-12	600	1200	500	250	1100	M12	244kg
ABP02-50400-0600-16	400	600	200	150	500	M16	89kg
ABP02-50500-0600-16	500	600	200	200	500	M16	108kg
ABP02-50600-0600-16	600	600	200	250	500	M16	120kg
ABP02-50400-0800-16	400	800	300	150	700	M16	108kg
ABP02-50450-0900-16	450	900	350	175	800	M16	134kg
ABP02-50500-1000-16	500	1000	400	200	900	M16	164kg
ABP02-50600-1200-16	600	1200	500	250	1100	M16	240kg

ABP-03
BASE PLATE

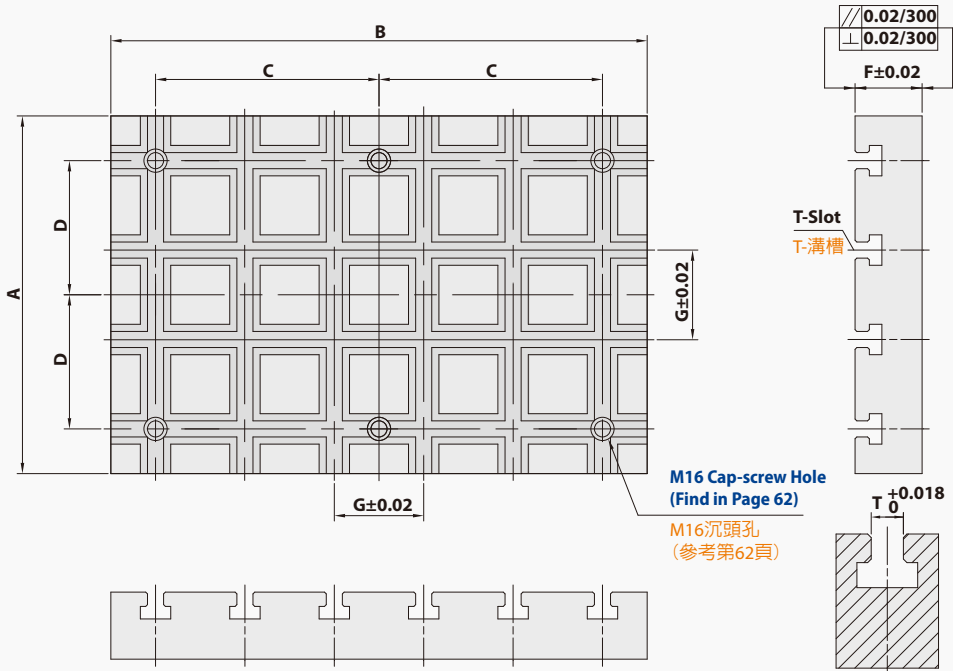
MC基板

MC Base Plate
Material: FC30
Heat treated: Normalized
Application: Vertical Machining Center
Features: T-Slots running in 2 directions, easily adapts to standardize jig components.

材質：FC30
熱處理：燒鈍
用途：適用於立式MC
特長：以T型溝定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	B	C	D	E	F	T	WEIGHT 重量
ABP03-60400-0600-14	400	600	250	300	100	60	14	92kg
ABP03-60500-0600-14	500	600	250	400	100	60	14	115kg
ABP03-60600-0600-14	600	600	250	200	100	60	14	130kg
ABP03-60400-0800-14	400	800	350	300	100	60	14	117kg
ABP03-60450-0900-14	450	900	400	350	100	60	14	168kg
ABP03-60500-1000-14	500	1000	450	400	100	60	14	198kg
ABP03-60600-1200-14	600	1200	550	500	100	60	14	264kg
ABP03-75400-0600-18	400	600	250	300	100	75	18	118kg
ABP03-75500-0600-18	500	600	250	400	100	75	18	147kg
ABP03-75600-0600-18	600	600	250	200	100	75	18	173kg
ABP03-75400-0800-18	400	800	350	300	100	75	18	151kg
ABP03-75450-0900-18	450	900	400	350	100	75	18	182kg
ABP03-75500-1000-18	500	1000	450	400	100	75	18	228kg
ABP03-75600-1200-18	600	1200	550	500	100	75	18	329kg

ABP-04
BASE PLATE

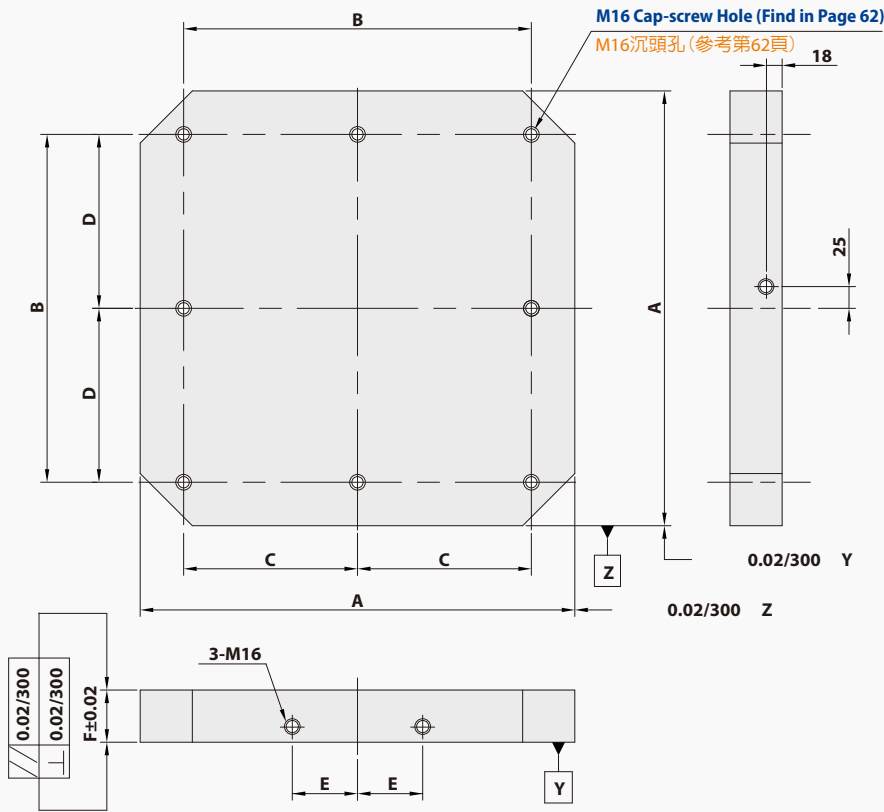
MC基板

MC Base Plate
Material: FC30
Heat treated: Normalized
Application: Vertical Machining Center
Features: Alignment bushing & thread insert at every hole location, easily adapts to standardized jig components.

材質：FC30
熱處理：燒鈍
用途：適用於立式MC
特長：以孔定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

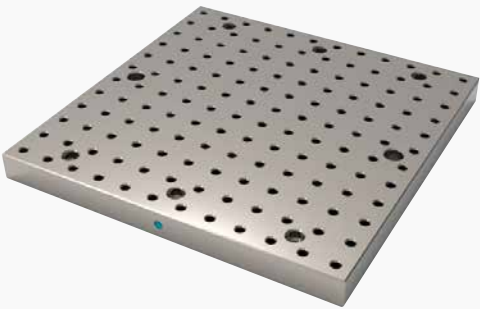
ITEM NO.	A	B	C	D	E	F	WEIGHT 重量
ABP04-50400-0400	400	320	160	160	55	50	57kg
ABP04-50500-0500	500	400	200	200	75	50	88kg
ABP04-50630-0630	630	500	250	250	100	50	140kg
ABP04-50800-0800	800	640	320	320	135	50	225kg

ABP-05
BASE PLATE

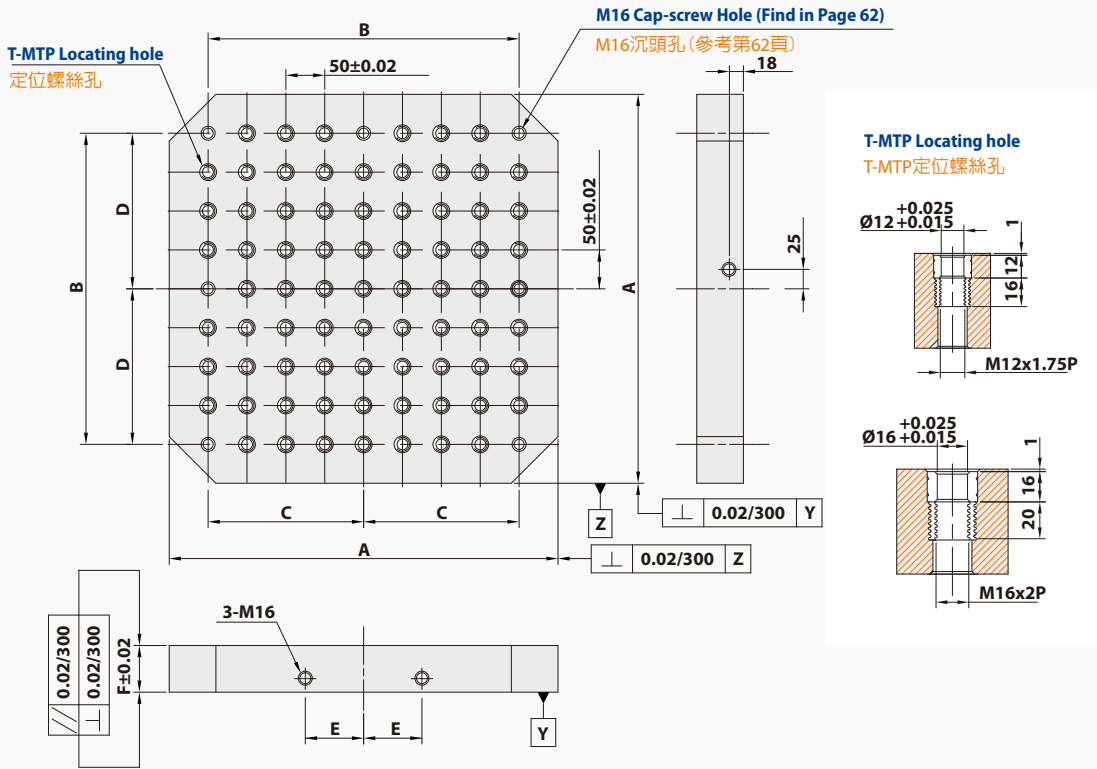
MC基板

MC Base Plate
Material: FC30
Heat treated: Normalized
Application: Vertical Machining Center
Features: T-Slots running in 2 directions, easily adapts to standardize jig components.

材質：FC30
熱處理：燒鈍
用途：適用於立式MC
特長：以T型溝定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	B	C	D	E	F	T	WEIGHT 重量
ABP05-50400-0400-12	400	320	160	160	55	50	12	54kg
ABP05-50500-0500-12	500	400	200	200	75	50	12	83kg
ABP05-50630-0630-12	630	500	250	250	100	50	12	135kg
ABP05-50800-0800-12	800	640	320	320	135	50	12	206kg
ABP05-50400-0400-16	400	320	160	160	55	50	16	52kg
ABP05-50500-0500-16	500	400	200	200	75	50	16	80kg
ABP05-50630-0630-16	630	500	250	250	100	50	16	130kg
ABP05-50800-0800-16	800	640	320	320	135	50	16	247kg

ABP-06
BASE PLATE

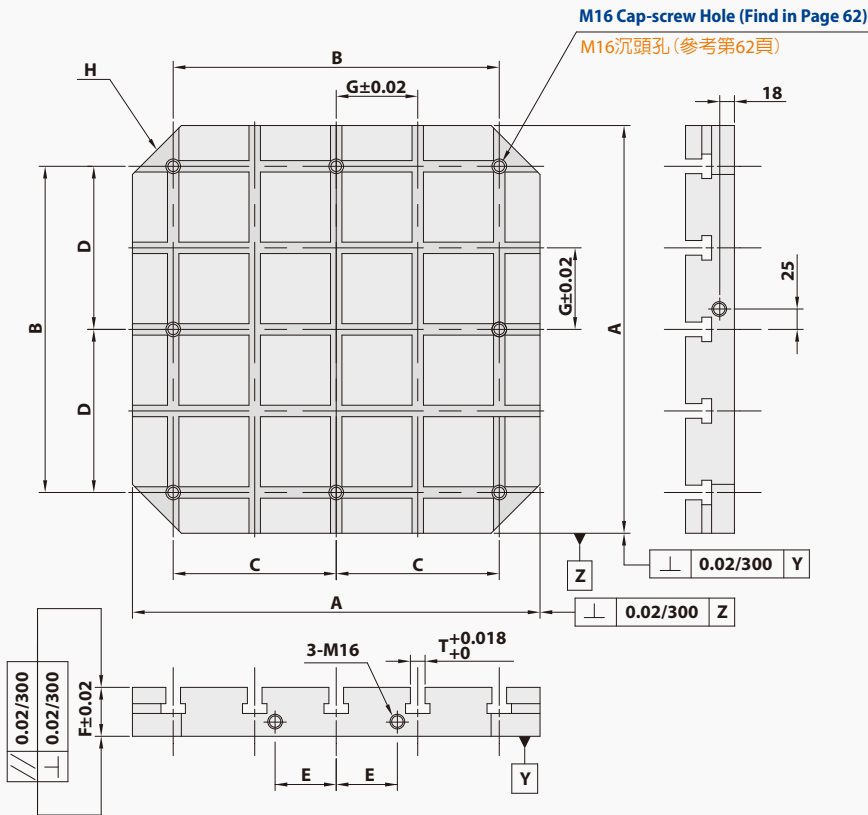
MC基板

MC Base Plate
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: T-Slots running in 2 directions, easily adapts to standardize jig components.

材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：以T型溝定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	B	C	D	E	F	G	T	WEIGHT 重量
ABP06-60400-0400-14	400	320	160	160	55	60	80	14	56kg
ABP06-60500-0500-14	500	400	200	200	75	60	100	14	90kg
ABP06-60630-0630-14	630	500	250	250	100	60	125	14	150kg
ABP06-60800-0800-14	800	640	320	320	135	60	160	14	230kg
ABP06-75400-0400-18	400	320	160	160	55	75	80	18	68kg
ABP06-75500-0500-18	500	400	200	200	75	75	100	18	108kg
ABP06-75630-0630-18	630	500	250	250	100	75	125	18	180kg
ABP06-75800-0800-18	800	640	320	320	135	75	160	18	295kg

ABP-07
SQUARE TOOLING COLUMN

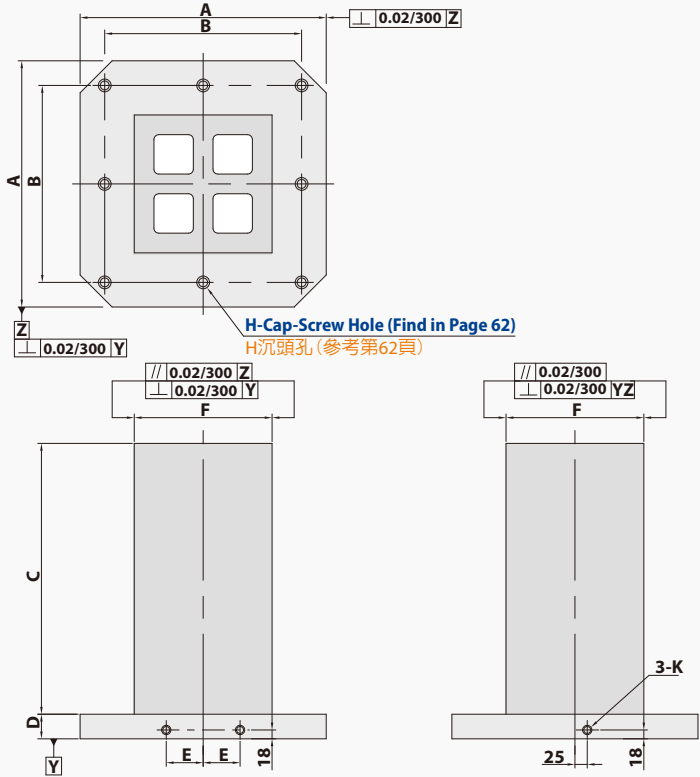
MC四面基座

MC Square Tooling Column
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: Ready to accept a hole pattern for your special jig.

材質：FC30
熱處理：燒鈍
用途：適用於臥式臥式MC
特長：可依實際需要，自行鑽孔加工製作專用治具。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	B	C	D	E	F	H	K	WEIGHT 重量
ABP07-300300-0500	300	250	450	50	40	150	M12	M12	90kg
ABP07-400400-0500	400	320	450	50	55	250	M16	M16	160kg
ABP07-400400-0650	400	320	600	50	55	250	M16	M16	210kg
ABP07-500500-0600	500	400	550	50	75	300	M16	M16	250kg
ABP07-500500-0750	500	400	700	50	75	300	M16	M16	310kg
ABP07-630630-0700	630	500	650	50	100	350	M16	M16	400kg
ABP07-630630-0850	630	500	800	50	100	350	M16	M16	460kg
ABP07-800800-0800	800	640	750	50	135	500	M16	M16	680kg
ABP07-800800-1000	800	640	950	50	135	500	M16	M16	800kg
ABP07-10001000-1000	1000	800	945	55	165	600	M20	M16	1164kg
ABP07-10001000-1250	1000	800	1195	55	165	600	M20	M16	1391kg

ABP-08
SQUARE TOOLING COLUMN

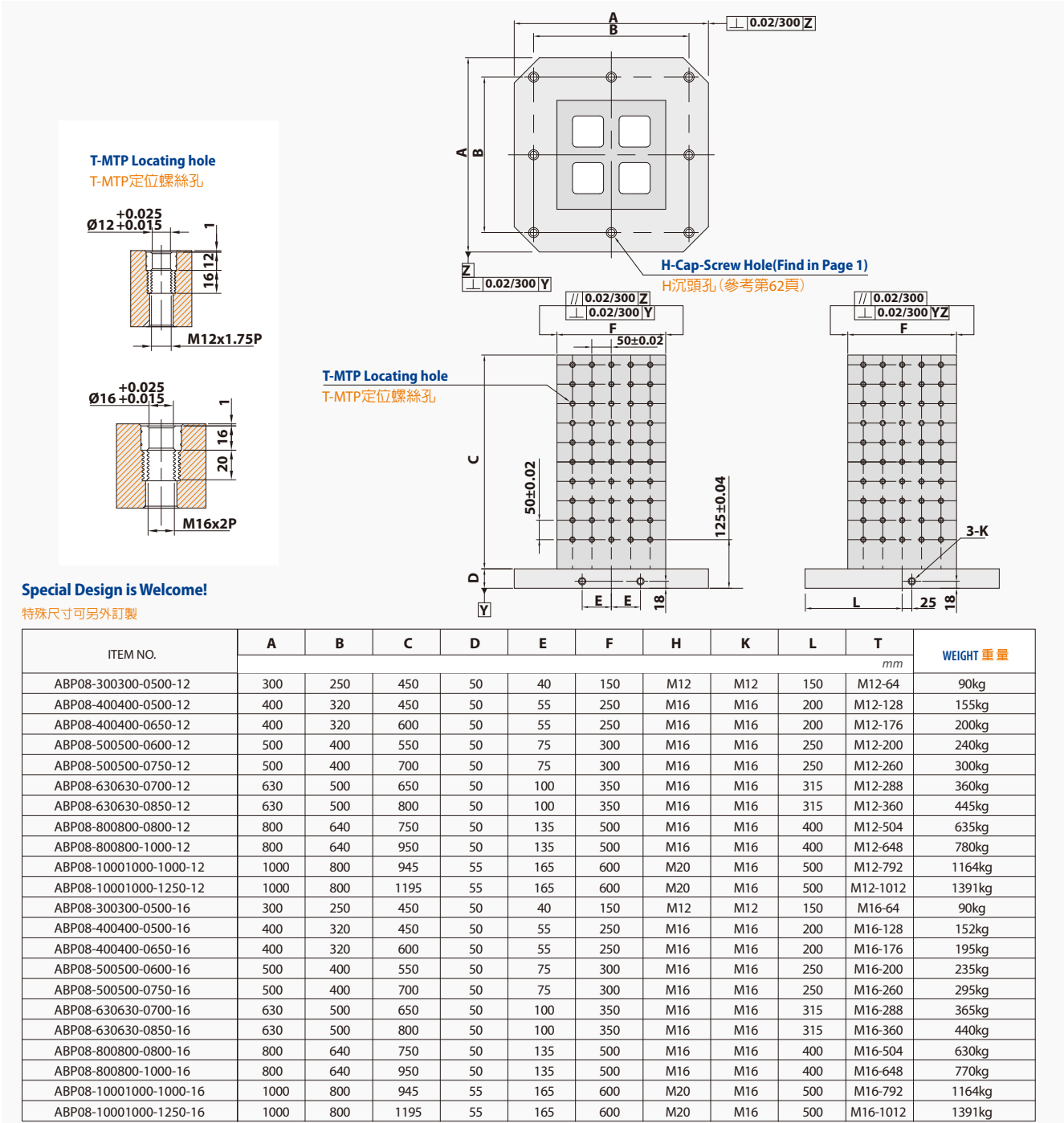
MC四面基座

MC Square Tooling Column
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: Alignment bushing & thread insert at every hole location, easily adapts to standardized jig components.

材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：以孔定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



DIMENSIONS 尺寸圖



ABP-09
SQUARE TOOLING COLUMN

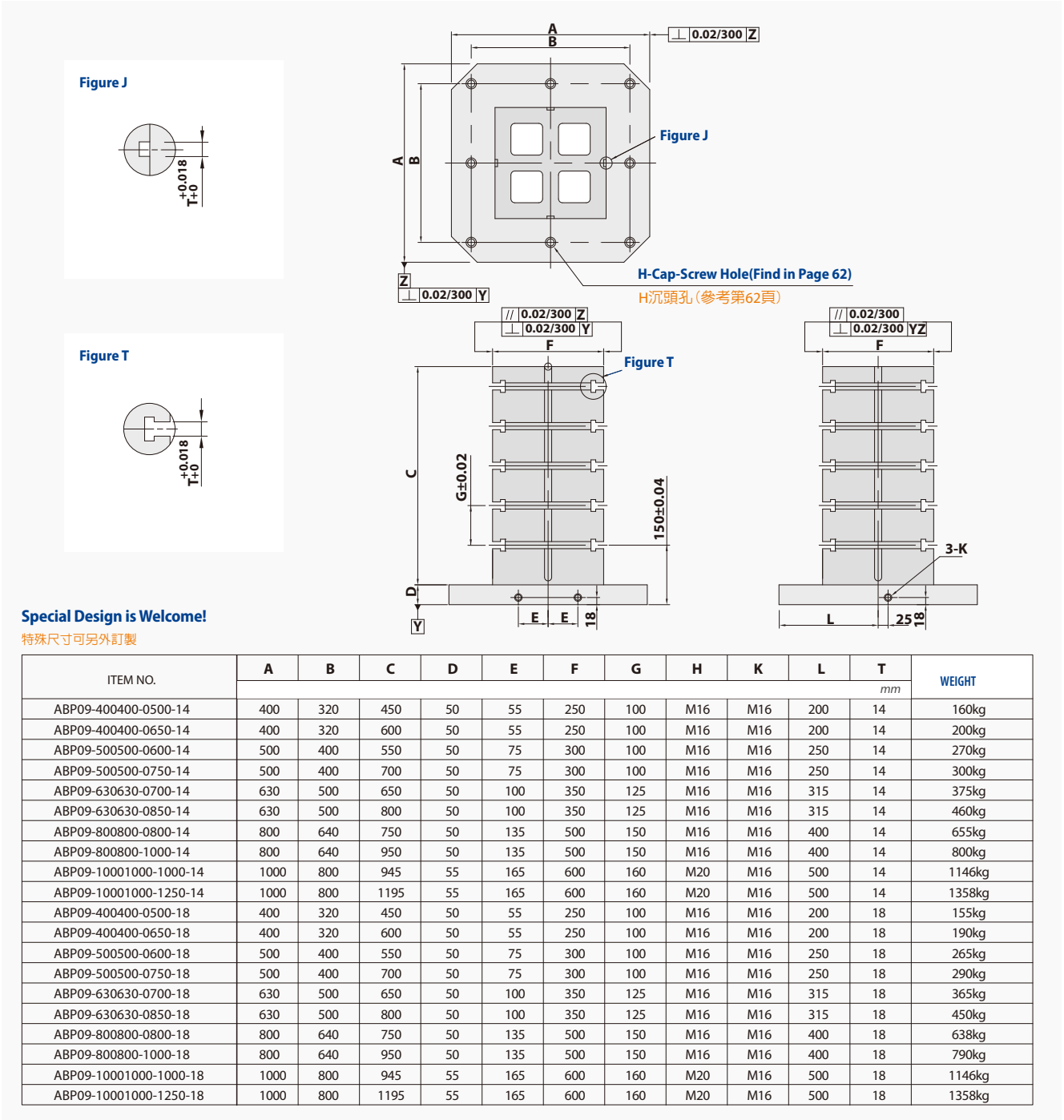
MC四面基座

MC Square Tooling Column
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: T-Slots running horizontally, key-way running vertically, easily adapts to standardized jig components.

材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：以T型溝定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



DIMENSIONS 尺寸圖



ABP-10
DOUBLE SIDED
TOOLING COLUMN

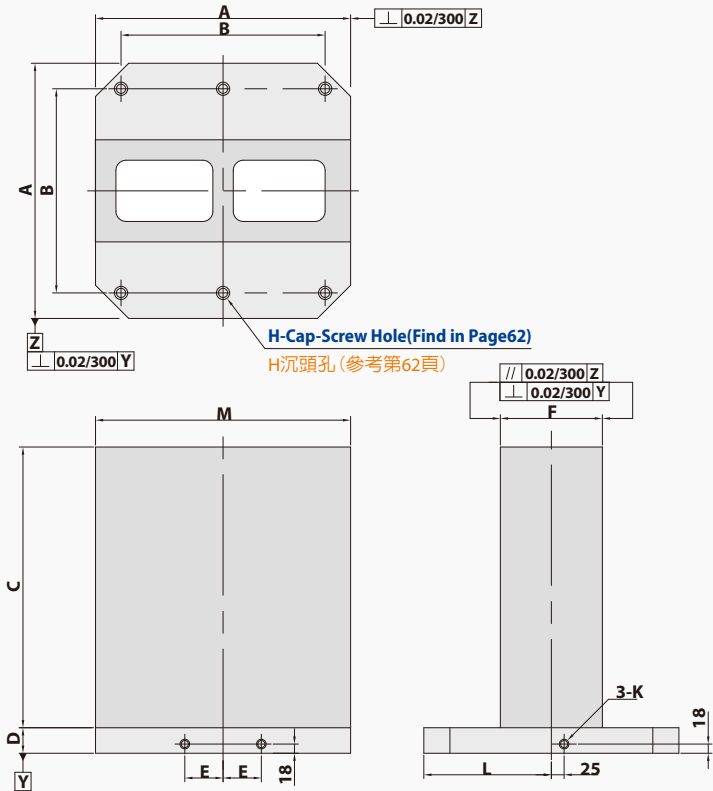
MC雙面基座

MC Double Sided Tooling Column
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: Ready to accept a hole pattern for your special jig.

材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：可依實際需要，自行鑽孔加工製作專用治具。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	B	C	D	E	F	H	K	L	M	WEIGHT 重量
	mm										
ABP10-300300-0500	300	250	450	50	40	80	M12	M12	150	300	115kg
ABP10-400400-0500	400	320	450	50	55	150	M16	M16	200	400	170kg
ABP10-400400-0650	400	320	600	50	55	150	M16	M16	200	400	215kg
ABP10-500500-0600	500	400	550	50	75	200	M16	M16	250	500	270kg
ABP10-500500-0750	500	400	700	50	75	200	M16	M16	250	500	350kg
ABP10-630630-0700	630	500	650	50	100	250	M16	M16	315	630	445kg
ABP10-630630-0850	630	500	800	50	100	250	M16	M16	315	630	520kg
ABP10-800800-0800	800	640	750	50	135	300	M16	M16	400	800	675kg
ABP10-800800-1000	800	640	950	50	135	300	M16	M16	400	800	815kg
ABP10-10001000-1000	1000	800	945	55	165	350	M20	M16	500	1000	1162kg
ABP10-10001000-1250	1000	800	1195	55	165	350	M20	M16	500	1000	1377kg

ABP-11
DOUBLE SIDED
TOOLING COLUMN

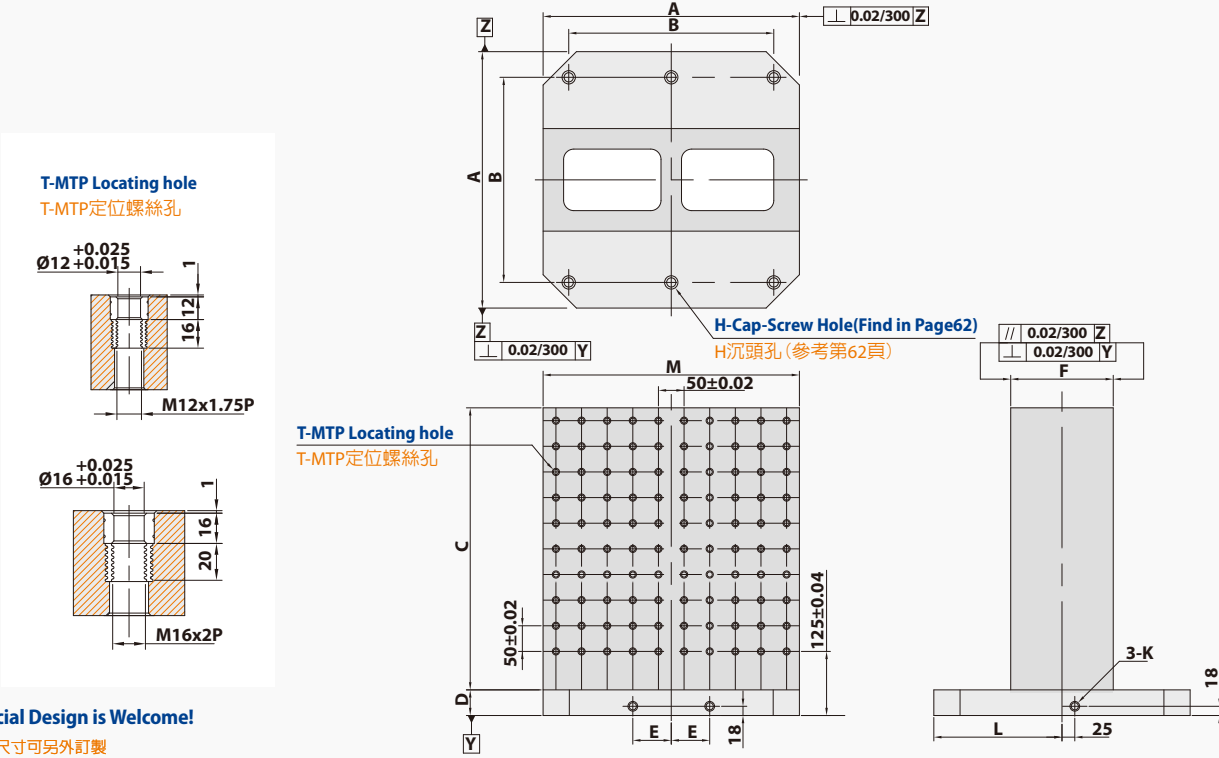
MC雙面基座

MC Double Sided Tooling Column
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: Alignment bushing & thread insert at every hole location, easily adapts to standardized jig components.

材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：以孔定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	B	C	D	E	F	H	K	L	M	T	WEIGHT 重量
	mm											
ABP11-300300-0500-12	300	250	450	50	40	80	M12	M12	150	300	M12	110kg
ABP11-400400-0500-12	400	320	450	50	55	150	M16	M16	200	400	M12	165kg
ABP11-400400-0650-12	400	320	600	50	55	150	M16	M16	200	400	M12	210kg
ABP11-500500-0600-12	500	400	550	50	75	200	M16	M16	250	500	M12	265kg
ABP11-500500-0750-12	500	400	700	50	75	200	M16	M16	250	500	M12	335kg
ABP11-630630-0700-12	630	500	650	50	100	250	M16	M16	315	630	M12	435kg
ABP11-630630-0850-12	630	500	800	50	100	250	M16	M16	315	630	M12	515kg
ABP11-800800-0800-12	800	640	750	50	135	300	M16	M16	400	800	M12	660kg
ABP11-800800-1000-12	800	640	950	50	135	300	M16	M16	400	800	M12	800kg
ABP11-10001000-1000-12	1000	800	945	55	165	350	M20	M16	500	1000	M12	1158kg
ABP11-10001000-1250-12	1000	800	1195	55	165	350	M20	M16	500	1000	M12	1375kg
ABP11-300300-0500-16	300	250	450	50	40	80	M12	M12	150	300	M16	105kg
ABP11-400400-0500-16	400	320	450	50	55	150	M16	M16	200	400	M16	160kg
ABP11-400400-0650-16	400	320	600	50	55	150	M16	M16	200	400	M16	205kg
ABP11-500500-0600-16	500	400	550	50	75	200	M16	M16	250	500	M16	260kg
ABP11-500500-0750-16	500	400	700	50	75	200	M16	M16	250	500	M16	330kg
ABP11-630630-0700-16	630	500	650	50	100	250	M16	M16	315	630	M16	430kg
ABP11-630630-0850-16	630	500	800	50	100	250	M16	M16	315	630	M16	505kg
ABP11-800800-0800-16	800	640	750	50	135	300	M16	M16	400	800	M16	650kg
ABP11-800800-1000-16	800	640	950	50	135	300	M16	M16	400	800	M16	790kg
ABP11-10001000-1000-16	1000	800	945	55	165	350	M20	M16	500	1000	M16	1158kg
ABP11-10001000-1250-16	1000	800	1195	55	165	350	M20	M16	500	1000	M16	1375kg

ABP-12
DOUBLE SIDED
TOOLING COLUMN

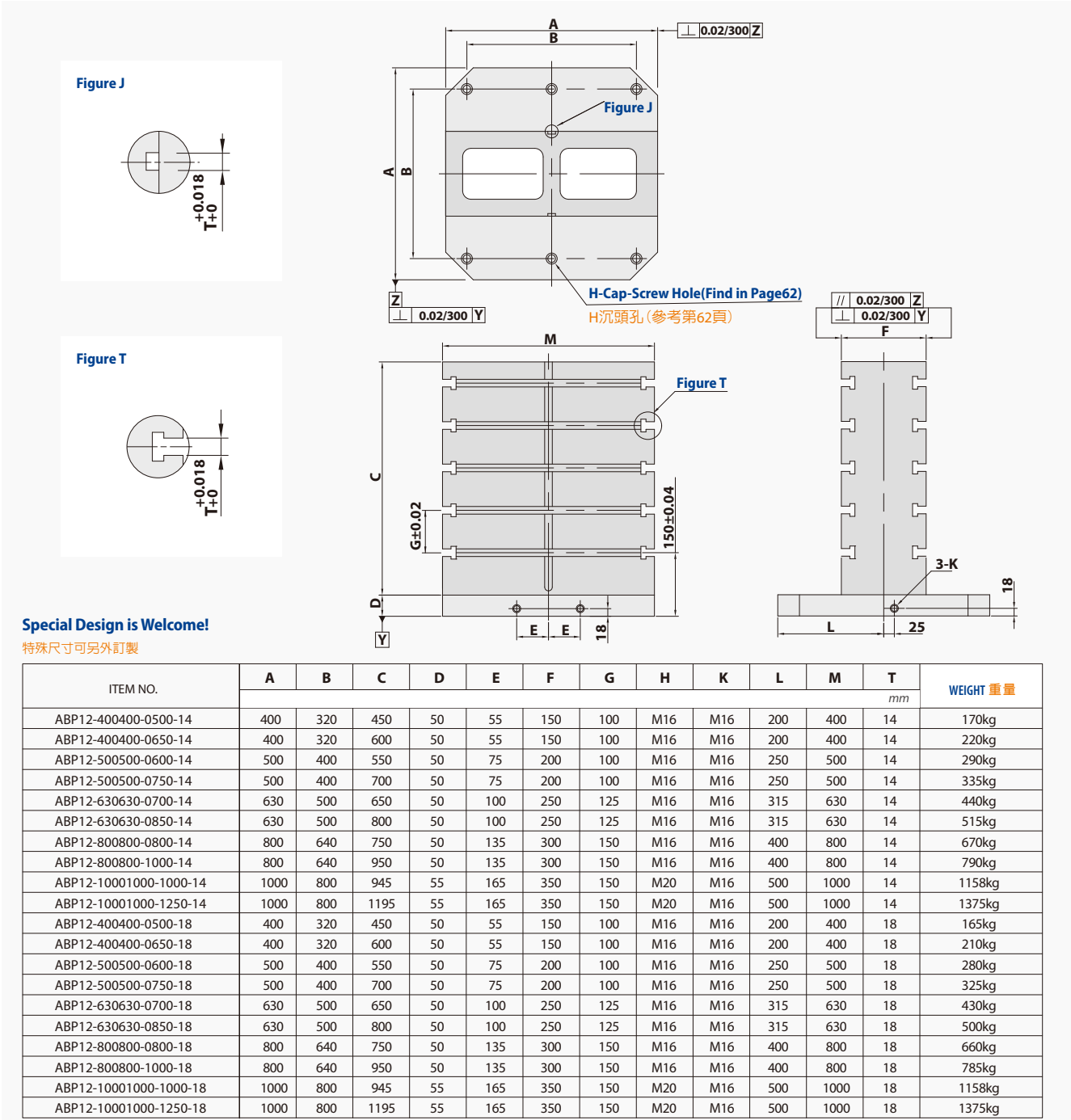
MC四面基座

MC Double Sided Tooling Column
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: T-Slots running in 2 directions, easily adapts to standardized jig components.

材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：以T型溝定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



DIMENSIONS 尺寸圖



ABP-13
MODULAR
TOOLING COLUMN

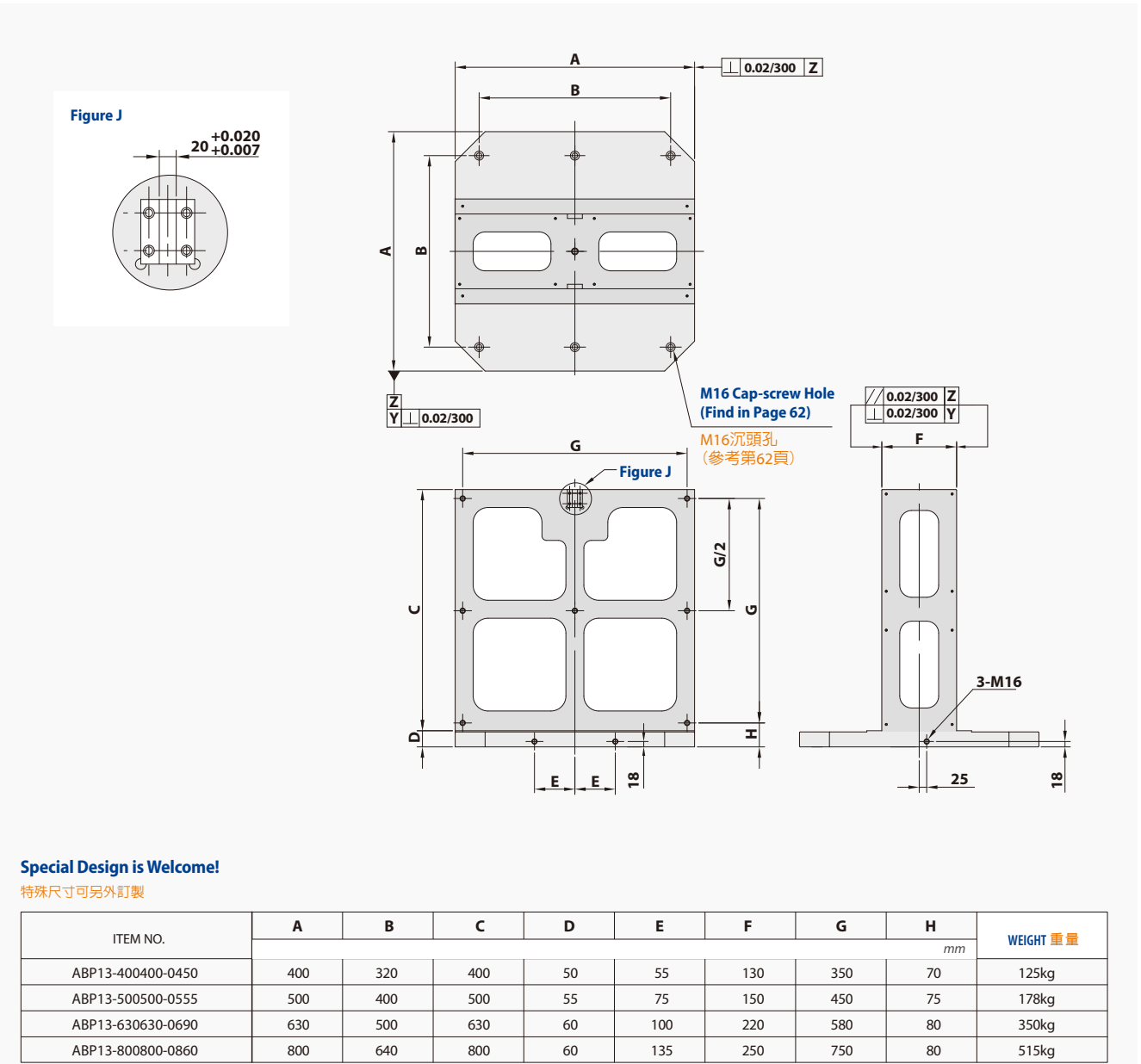
MC替換式雙面基座

MC Modular Tooling Column
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: Modular quick-change system, simple 3 point mounting, use with sub-plates.



材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：可利用輔助板替換使用，已達快速換模之目的。

DIMENSIONS 尺寸圖

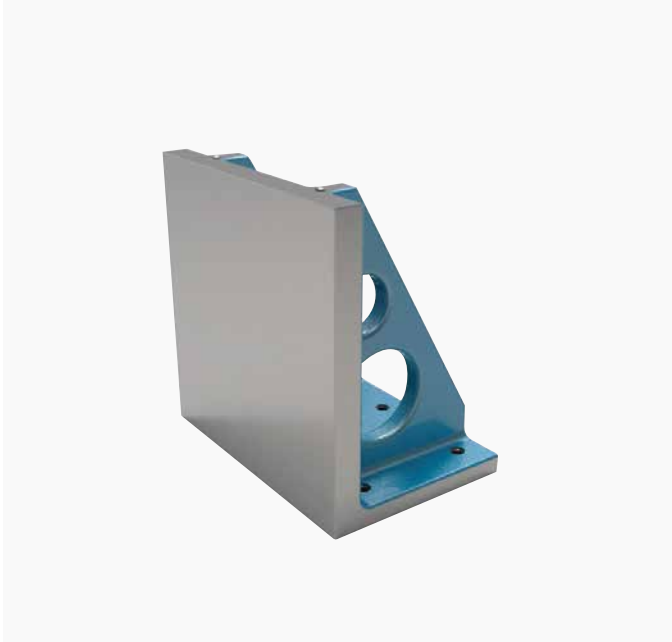


ABP-16
ANGLE PLATE

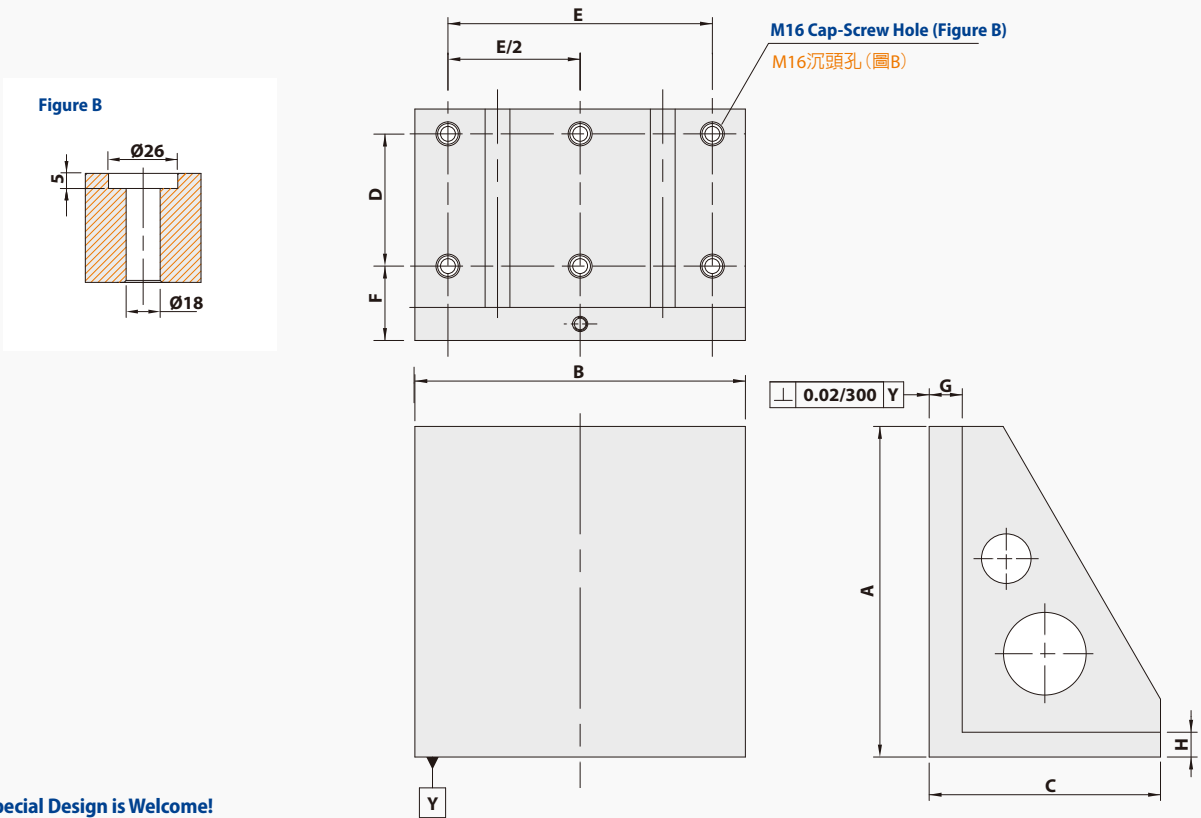
MC直角基座

MC Angle Plate
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: Ready to accept a hole pattern for your special jig.

材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：可利用輔助板替換使用，已達快速換模之目的。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	B	C	D	E	F	G	H	Mounting holes	WEIGHT
	mm								安裝孔	重量
ABP16-220300-0300	300	300	220	100	250	90	40	30	6	50kg
ABP16-280400-0400	400	400	280	160	320	90	40	30	6	90kg
ABP16-340500-0500	500	500	340	200	400	90	50	35	6	165kg
ABP16-435630-0630	630	630	435	250	500	100	50	40	6	275kg
ABP16-525800-0800	800	800	525	320	640	115	50	45	6	475kg

ABP-17
ANGLE PLATE

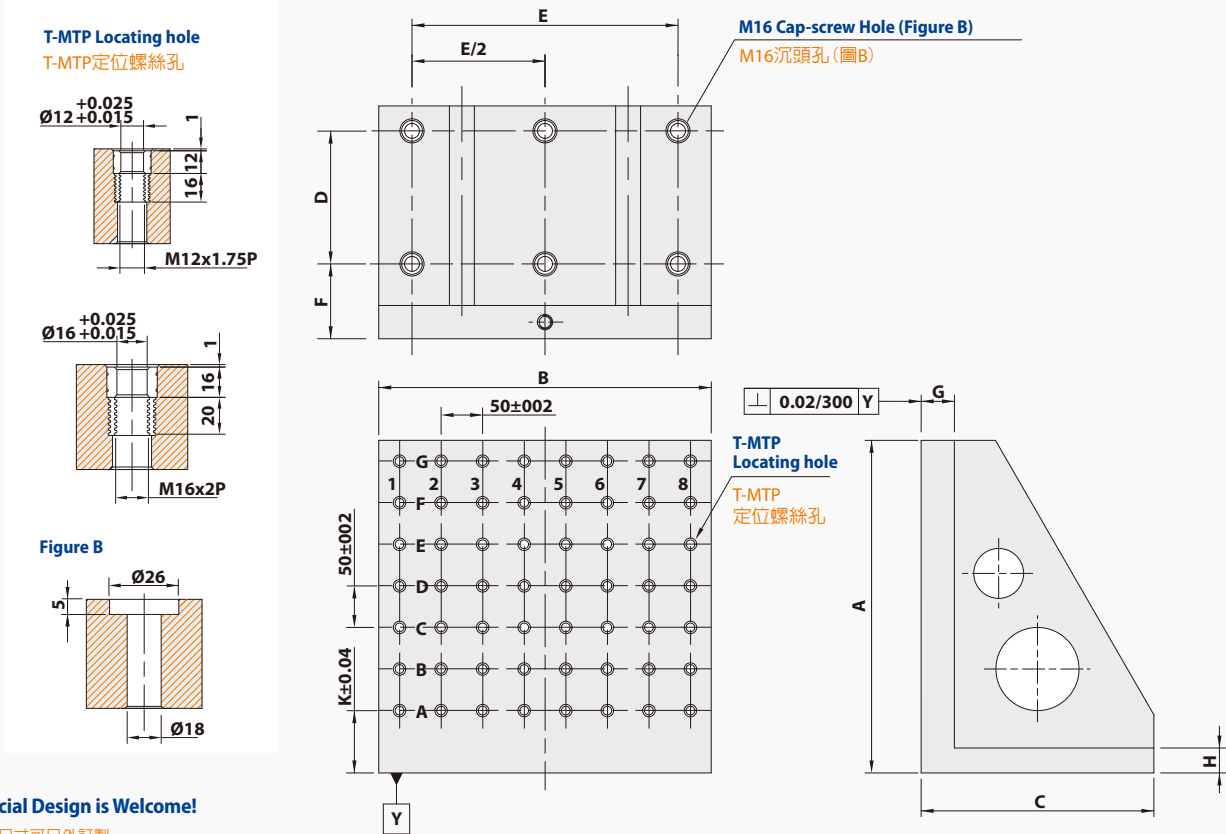
MC直角基座

MC Angle Plate
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: Alignment bushing & thread insert at every hole location, easily adapts to standardized jig components.

材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：以孔定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



DIMENSIONS 尺寸圖



Special Design is Welcome!
特殊尺寸可另外訂製

ITEM NO.	A	B	C	D	E	F	G	H	T		K	MTP	Mounting holes 安裝孔	WEIGHT 重量
	mm													
ABP17-220300-0300-12	300	300	220	100	250	90	40	30	Ø12	M12	75	30	6	50kg
ABP17-280400-0400-12	400	400	280	160	320	90	40	30	Ø12	M12	75	56	6	87kg
ABP17-340500-0500-12	500	500	340	200	400	90	50	35	Ø12	M12	75	90	6	173kg
ABP17-435630-0630-12	630	630	435	250	500	100	50	40	Ø12	M12	40	144	6	300kg
ABP17-525800-0800-12	800	800	525	320	640	115	50	45	Ø12	M12	75	240	6	477kg
ABP17-220300-0300-16	300	300	220	100	250	90	40	30	Ø16	M16	75	30	6	46kg
ABP17-280400-0400-16	400	400	280	160	320	90	40	30	Ø16	M16	75	56	6	85kg
ABP17-340500-0500-16	500	500	340	200	400	90	50	35	Ø16	M16	75	90	6	170kg
ABP17-435630-0630-16	630	630	435	250	500	100	50	40	Ø16	M16	40	144	6	295kg
ABP17-525800-0800-16	800	800	525	320	640	115	50	45	Ø16	M16	75	240	6	470kg

ABP-18
ANGLE PLATE

MC直角基座

MC Angle Plate
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: T-Slots running in 2 directions, easily adapts to standardized jig components.

材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：以T型溝定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



ABP-032
PLATE

MC基座

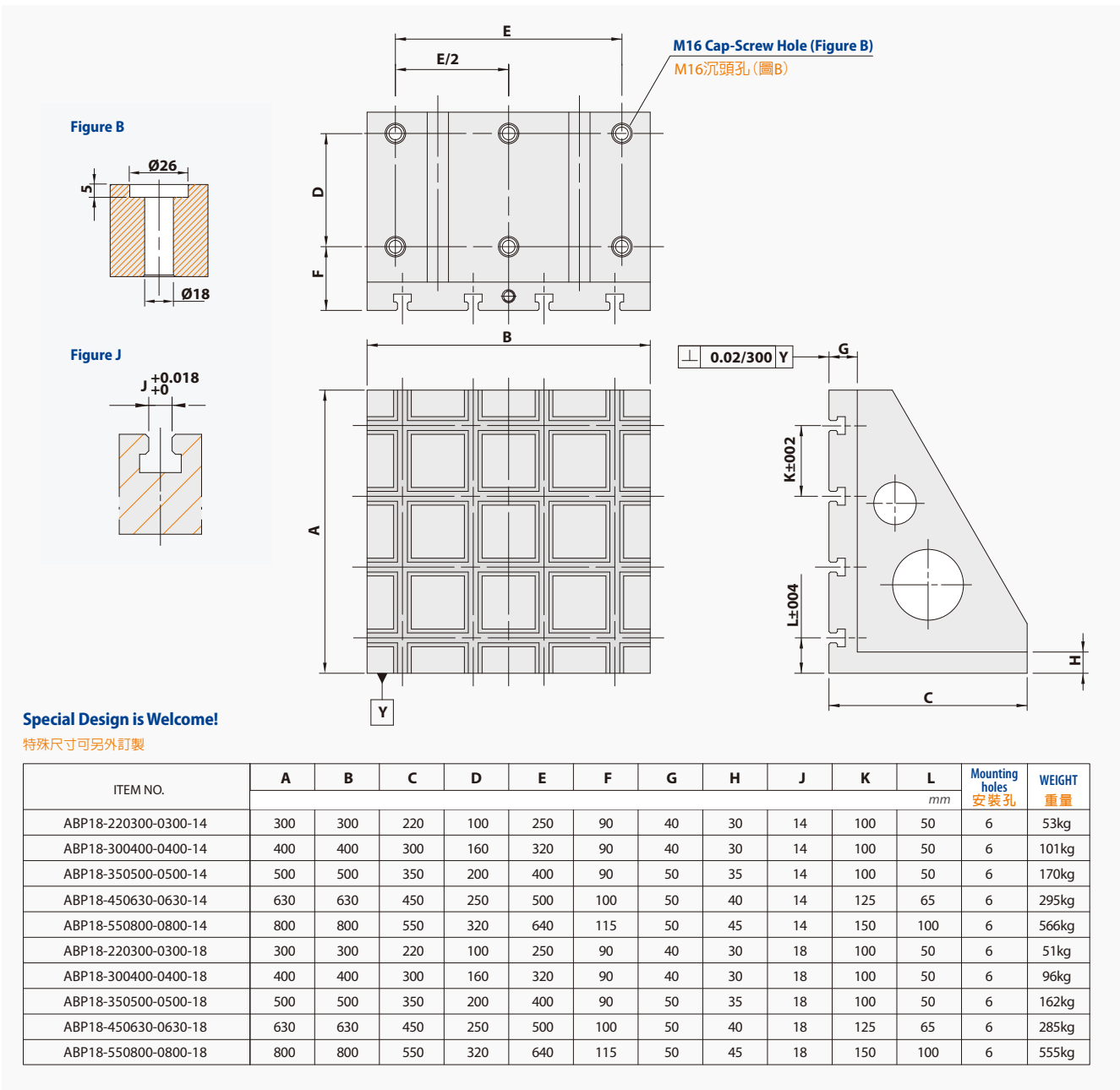
MC Angle Plate
Material: FC30
Heat treated: Normalized
Application: Horizontal Machining Center
Features: T-Slots running in 2 directions, easily adapts to standardized jig components.

材質：FC30
熱處理：燒鈍
用途：適用於臥式MC
特長：以T型溝定位方式，利用標準化治具零件，可快速組立完成一套符合需求之治具。



new!

DIMENSIONS 尺寸圖



Shorten Z axis travel to improve efficiency.

Rigid and tensile ductile iron FCD600(80,000PSI) work table.

Table surface flame hardened to HS65° to maintain the accuracy.

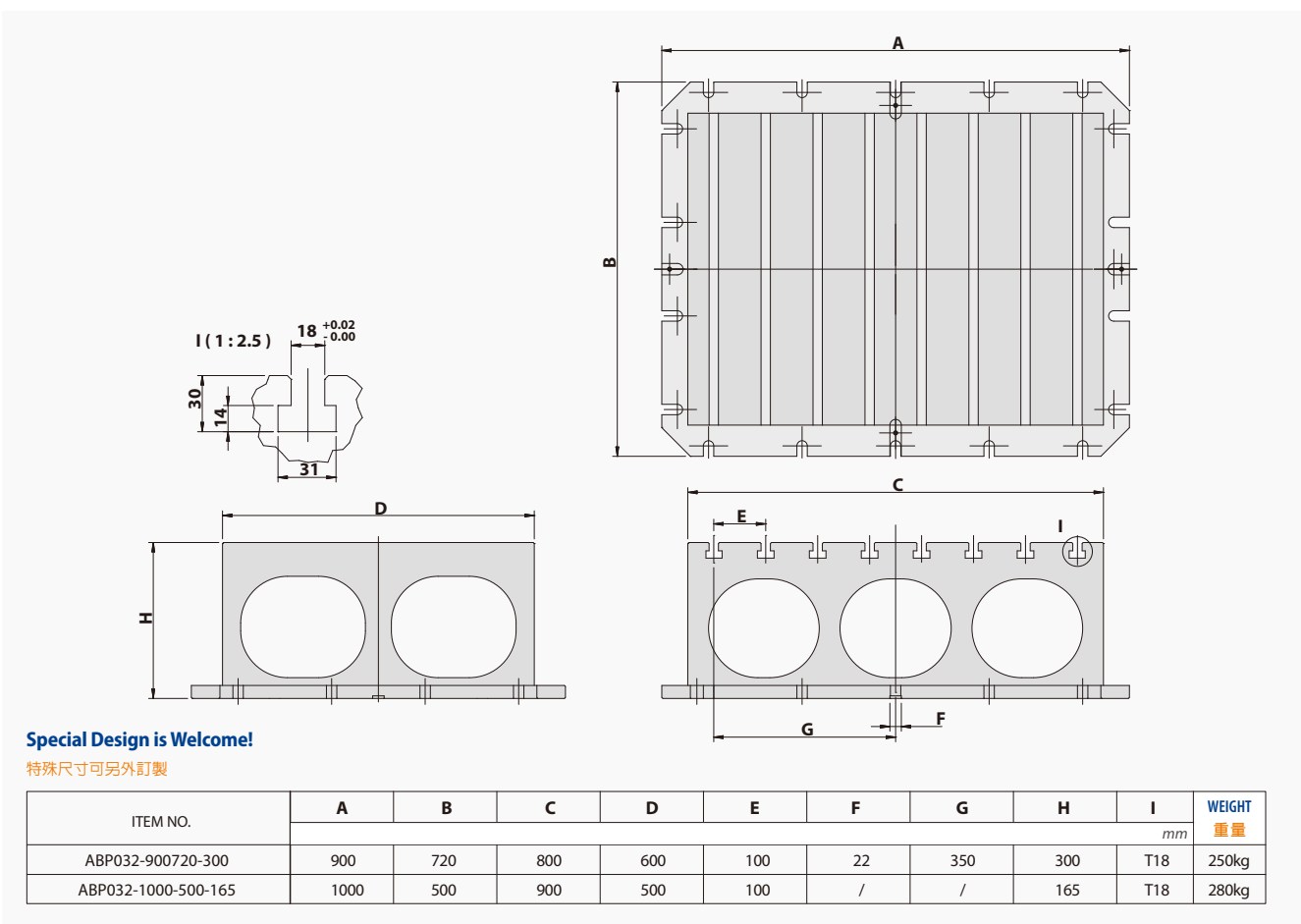
Maximize production capacity and reduce processing time.

Suitable for hydraulic chuck, manual chuck, mechanical power vise and special jigs.

Long mandrel processing, can be used with multiple work table.

Modular design, easy set mold, high repeatability accuracy and high stability.

DIMENSIONS 尺寸圖



PRECISION ACCESSORIES

精密虎鉗配件

CLAMPING FORCE EQUALIZATION & AUTOMATICALLY RETURN MECHANISM

夾持力自動補償機構&自動定位系統

Lockwell Double Station Vise increases the efficiency and productivity of CNC machine. Double station could clamp two dissimilar workpieces with same force at a time. For save time, movable jaw designed to automatically return to correct position. One of the movable jaws opened while the other one opened to the position you set. Moreover, double station could be change to single station to meet your enquiry by fixed one movable jaw. 6 different clamping positions. You could change the standard jaws into soft jaws to make your own vise.

Double station could clamp two dissimilar workpieces with same force at a time and provides 6 different clamping positions.

Clamping Force Equalization (patented) ensures same clamping force to clamp two different size/shape workpieces.

Automatically Return Mechanism (patented) save the work change time.

Lockwell Anti-Lift Mechanism (patented) ensures the workpiece does not deflect and lift.

雙鵬系列虎鉗擁有兩項專利，提高CNC設備的利用率並提升生產力。雙夾座可在同時以相同夾持力夾持兩個相同或不同尺寸之工件，達多件一致性的高精度；活動顎採用鬆開後自動定位裝置設計，操作鬆開時，其一活動顎會先稍微退開，待其定住後，另一活動顎才會退開。此外為因應工件尺寸不同之需求，此虎鉗更可變換為單夾座，僅需固定一端活動顎即可定位夾持大工件；夾持變化方式多達六種。可更換使用鋁製軟爪，訂做一個專供您模具使用的專屬虎鉗。

雙夾持機構：雙開口虎鉗可同時夾持兩個大小不同之工件，且提供六種不同夾持方式。

專利夾持力自動補償機構：此機構可同時夾持兩種不同大小或是形狀之工件，大大提升生產效率，另外，因為擁有自動補償(非同動裝置)之功能，兩工件是同時夾緊，所以雙開口雙夾持力是相同的。

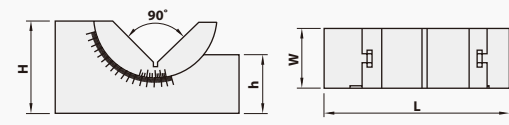
專利自動定位機構：可節省鬆開工件及準備放置工件的寶貴時間。

向量式防止上浮機構：當作業時，使其工件產生向下壓力效果，以消除傳統虎鉗操作時所產生的傾斜與偏向。

GAP-25, 30, 46 ADJUSTABLE ANGLE PLATES 可調式角度墊規



TO MARK OUT ON A WORKPIECE USING ON THE MILLING MACHINE
在銑床上標記工件



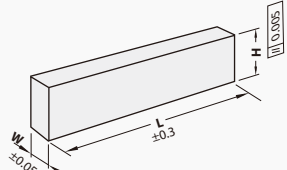
DIMENSIONS 尺寸圖

ITEM NO.	L	W	H	h	WEIGHT 重量
	mm				
GAP-25	75	25	36	25	0.5kg
GAP-30	102	30	49	30	1.0kg
GAP-46	102	46	49	30	1.5kg

AGP-85 PRECISION PARALLELS SET 精密虎鉗平行墊規



Hardness: HRC50°-55°
Accuracy: 0.01m/m
硬度：HRC50°~55°
精度：0.01 m/m



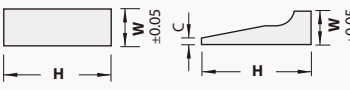
DIMENSIONS 尺寸圖

ITEM NO.	L	W	H	PCS 數量	WEIGHT 重量
	mm				
AGP-85	150	8.5	14	2	5.5kg
	150	8.5	16	2	5.5kg
	150	8.5	20	2	5.5kg
	150	8.5	24	2	5.5kg
	150	8.5	30	2	5.5kg
	150	8.5	32	2	5.5kg
	150	8.5	36	2	5.5kg
	150	8.5	40	2	5.5kg
150	8.5	44	2	5.5kg	

AGP-100 PRECISION PARALLELS SET 精密虎鉗平行墊規



Hardness: HRC50°-55°
Accuracy: 0.01m/m
Process: Four-side grinding
1 set includes 18 pcs, packed by plastic case
硬度：HRC50°~55°
精度：0.01 m/m
工藝：四面拋光
1組包括18個塑料盒包裝



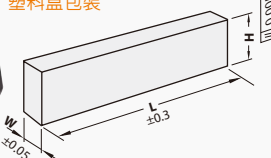
DIMENSIONS 尺寸圖

ITEM NO.	L	W	H	PCS 數量	WEIGHT 重量
	mm				
AGP-100	5	16	100	2	10.3kg
	6	18	100	2	10.3kg
	8	24	100	2	10.3kg
	10	30	100	2	10.3kg
	12	36	150	2	10.3kg
	14	48	150	2	10.3kg
	18	60	150	2	10.3kg
	22	62	150	2	10.3kg

AGP-150 PRECISION PARALLELS SET 精密虎鉗平行墊規



Hardness: HRC52°-58°
Accuracy: 0.01m/m
Process: Four-side grinding
1 set includes 28 pcs, packed by plastic case
硬度：HRC52°~58°
精度：0.01 m/m
工藝：四面拋光
1組包括28個塑料盒包裝



DIMENSIONS 尺寸圖

ITEM NO.	L	W	H	PCS 數量	WEIGHT 重量
	mm				
AGP-150	150	10	14	2	9.2kg
	150	10	16	2	9.2kg
	150	10	18	2	9.2kg
	150	10	20	2	9.2kg
	150	10	22	2	9.2kg
	150	10	24	2	9.2kg
	150	10	26	2	9.2kg
	150	10	28	2	9.2kg
	150	10	30	2	9.2kg
	150	10	32	2	9.2kg
	150	10	35	2	9.2kg
	150	10	40	2	9.2kg
	150	10	45	2	9.2kg
	150	10	50	2	9.2kg

AGP-50
PRECISION PARALLELS SET 精密虎鉗平行墊規

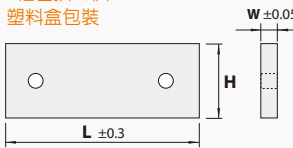
new!



Hardness: HRC52°-58°
Accuracy: 0.01m/m
1 set includes 18 pcs, packed by plastic case
硬度：HRC50°~55°
精度：0.01 m/m
1組包括18個
塑料盒包裝

DIMENSIONS 尺寸圖

ITEM NO.	L	W	H	PCS 數量	WEIGHT 重量
AGP-85	150	6	19	2	4.07kg
	150	6	22	2	4.07kg
	150	6	25	2	4.07kg
	150	6	28	2	4.07kg
	150	6	31	2	4.07kg
	150	6	35	2	4.07kg
	150	6	38	2	4.07kg
	150	6	41	2	4.07kg
150	6	44	2	4.07kg	



AGP-60
PRECISION PARALLELS SET 精密虎鉗平行墊規

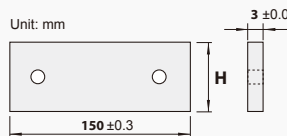
new!



Hardness: HRC48°-55°
Accuracy: 0.01m/m
1 set includes 20cs, packed by plastic case
硬度：HRC50°~55°
精度：0.01 m/m
1組包括20個
塑料盒包裝

DIMENSIONS 尺寸圖

ITEM NO.	(H) Height ±0.01									PCS 數量	WEIGHT 重量	
	13	16	19	22	25	28	31	35	38			41
AGP-60	13	16	19	22	25	28	31	35	38	41	2	2.2kg



AGP-70
PRECISION PARALLELS SET 精密虎鉗平行墊規

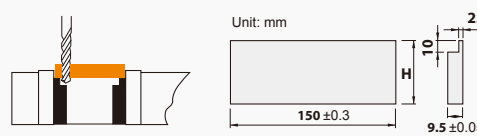
new!



Hardness: HRC52°-58°
Accuracy: 0.01m/m
1 set includes 12 pcs, packed by plastic case
硬度：HRC50°~55°
精度：0.01 m/m
1組包括12個
塑料盒包裝

DIMENSIONS 尺寸圖

ITEM NO.	(H) Height ±0.01						PCS 數量	WEIGHT 重量
	25	30	35	40	45	48		
AGP-70	25	30	35	40	45	48	2	4.06kg



AGP-80
PRECISION PARALLELS SET 精密虎鉗平行墊規

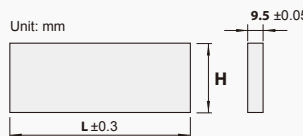
new!



Hardness: HRC52°-58°
Accuracy: 0.01m/m
1 set includes 12 pcs, packed by plastic case
硬度：HRC50°~55°
精度：0.01 m/m
1組包括12個
塑料盒包裝

DIMENSIONS 尺寸圖

ITEM NO.	(H) Height ±0.01						(L) Length mm	PCS 數量	WEIGHT 重量
AGP-80-1	25	30	35	40	45	48	150±0.3	2	4.95kg
AGP-80-2	35	40	45	50	55	58	200±0.3	2	8.40kg



GVL-100
TOOL MAKER VISE (STAINLESS STEEL) 一寸不銹鋼工具萬力

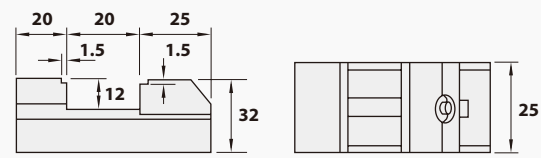


High Precision Tool Makers Vise
Hardness:HRC50°-55°
Squareness:within 0.003m/m
高精度工具萬力
硬度：HRC50°~55°
垂直度及水平度在0.003m/m

GVL-100 mini tool maker vise can be applied for precise process on bigger vises, and it can be used on EDMs and grinding machines.

GVL-100迷你尺寸工具萬力，可置于較大萬力上進行較細而精準的加工，同時可用在放電加工機上及研磨機上。

DIMENSIONS 尺寸圖



GVL-200, 300
TOOL MAKER VISE (STAINLESS STEEL) 不銹鋼工具萬力

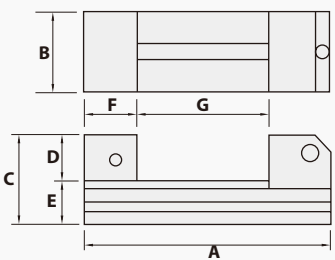


Material: SUS440
Parallelism:within 0.003/100 mm
Squareness:within 0.003/100 mm
Harden treatment up to HRC50°~55°
材質：SUS440
平行精度：within 0.003/100 mm
垂直度精度：within 0.003/100 mm
硬度：HRC50°~55°

Super Cold treating the stainless steel material after heat treatment, makes the rustless tools easy to maintain and preserve lasting precision.

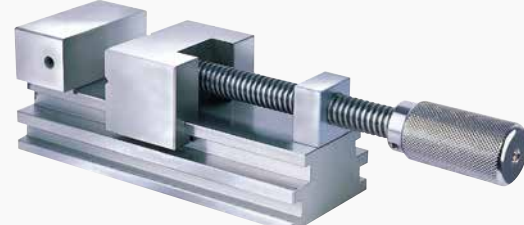
利用不銹鋼材料熱處理後再經深冷處理使原本不生鏽的工具易於保養且保持永久精度。

DIMENSIONS 尺寸圖



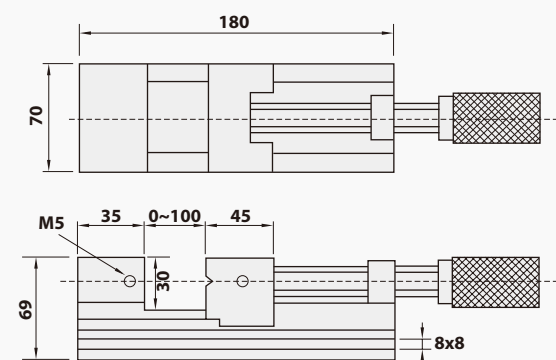
ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
	mm							
GVL-200	140	50	53	25	28	25	0~75	1.8kg
GVL-300	180	72	62	30	32	35	0~100	3.8kg

VSU-300
TOOL MAKER VISE (STAINLESS STEEL) 不銹鋼手轉工具萬力



Material: SUS440
Parallelism:within 0.003/100 mm
Squareness:within 0.005/100 mm
Harden treatment up to HRC50°~55°
材質：SUS440
平行精度：within 0.003/100 mm
垂直度精度：within 0.003/100 mm
硬度：HRC50°~55°

DIMENSIONS 尺寸圖 Unit:mm



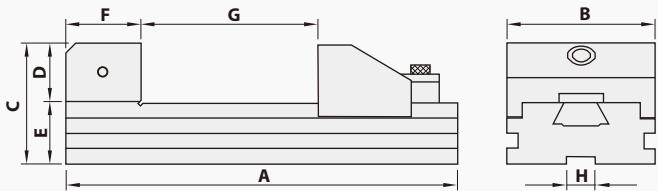
GLK-60, 80, 100

GLK TOOL MAKER VISE GLK萬力



GLK Tool Maker Vise adopts new construct and high strength design, can enable to clamp strong and powerful workpieces.

GLK-100萬力採新結構且強度高的設計，可強而有力的夾持工件。
。可用於CNC床銑上，採並列式的使用。



DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	F	G	H	WEIGHT 重量
GLK-60	180	60	55	27	28	35	0~80	14	3kg
GLK-80	205	80	64	32	32	40	0~100	14	5kg
GLK-100	250	96	82	40	42	45	0~125	14	10kg

Material:YK30
Hardness:HRC56°~60°
材質：YK30
硬度：HRC56°~60°

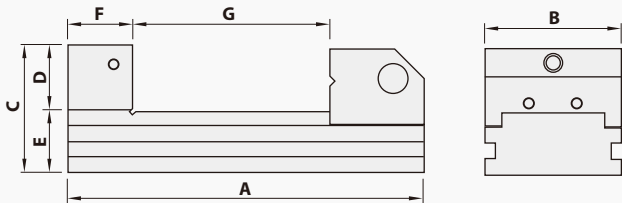
VSB-15, 20, 25,30, 40

VSB TOOL MAKER VISE VSB工具萬力



VSB Tool Maker Vise is a mechanics of new type, can enable to easily adjust the size of workpieces being held.

VSB工具萬力為一新設計結構，能輕易的調整夾持工件的大小，
採YK30材質保證硬度及精度。



DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
VS								
VS								
VS								
VS								
VS								

YK30 material can pledge the rigidity and precision.
Hardness: HRC56°~60°
YK30材質保證硬度及精度。
硬度：HRC56°~60°

GSV-34, 45, 70, 90, 120

SUPER PRECISION TOOL MAKER VISE 高級萬力



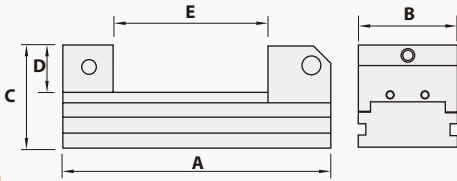
“GSV” type super precision tool maker vise, made of quality alloy steel. The best kind of tool maker vise whatever in design and accuracy. Quality and precision are stability. Achieving Europe and Japan quality test qualification.

Single side oblique angle design, can be mended the quantity of essence deformed automatically.

GSV型超精密工具萬力，採用高級合金鋼製造，設計結構和精密度都是最好的工具萬力。

由於品質和精密度穩定，在日本和歐洲均受到消費者歡迎，產品行銷全世界。

新型的單向斜角設計，能自動校正主體的變形量。



DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	WEIGHT 重量
GSV-34	75	34	35	15	0~25	0.38kg
GSV-45	110	45	45	20	0~50	1.0kg
GSV-70	160	70	62	30	0~80	3.3kg
GSV-90	210	90	80	40	0~115	6.7kg
GSV-120	286	120	90	40	0~150	16.8kg

Material:SKS3
Parallelism: within 0.002/100 mm
Squareness: within 0.003/100 mm
Cooling treatment: minus 185°C
Harden treatment up to HRC58°~62°
材質：SKS3
平行精密度：within 0.002/100 mm
垂直精密度：0.003/100 mm
深冷處理：185°C
硬度：HRC58°~62°

GAA-20, 25, 30, 40

SUPER PRECISION TOOL MAKER VISE 高級萬力



“GAA” type super precision tool maker vise, complete size, handle designed, can be arbitrarily rotated the handle to adjust clamping size. Inside of the handle is hexagonal hole designed, for hexagonal spanner to pressurize and lock.

Precision spiral shaft match up with nut, and effective to ensure the lasting. The quality and accurate are guaranteed.

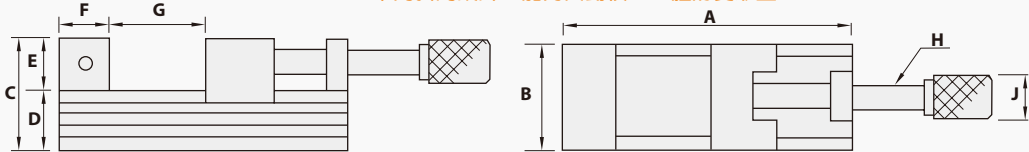
Single side oblique angle design, can be mended the quantity of essence deformed automatically.

GAA精密工具萬力系列，尺寸規格齊全，握把式設計，可任意的旋轉把手，調整夾持工件的大小。

把手輪有內六角設計，可供六角扳手加壓鎖緊使用。

精密的螺絲配合螺帽，有效的確保使用年限，保證其品質及精度。

單向斜角設計，能夠自動校正主體的變形量。



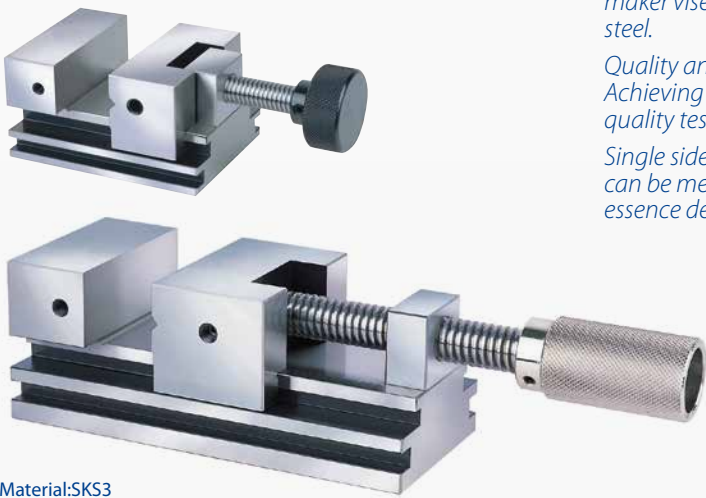
DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	F	G	H	J	WEIGHT 重量
GAA-20	140	48	55	30	25	25	0~75	M16	30	2.7kg
GAA-25	160	63	69	39	30	30	0~85	M16	30	4.6kg
GAA-30	180	73	78	43	35	35	0~95	M24	40	6.4kg
GAA-40	230	98	92	47	45	40	0~120	M24	40	13kg

Material:SK2
Parallelism: within 0.003/100 mm
Squareness: within 0.004/100 mm
Harden treatment up to HRC56°~58°
材質：SK2
平行精密度：within 0.003/100 mm
垂直精密度：within 0.004/100 mm
硬度：HRC56°~58°

GAS-60,70,90

SUPER PRECISION TOOL MAKER VISE 超精密工具萬力

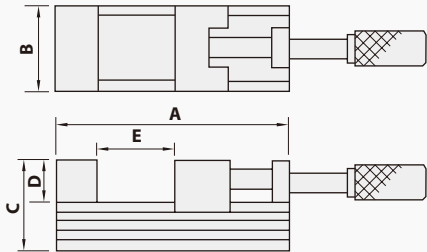


Material:SKS3
Parallelism:within 0.002/100 mm
Squareness:within 0.003/100 mm
Harden treatment up to HRC56°~58°
Cooling treatment: minus 185°C

材質：SKS3
平行精密度：within 0.002/100 mm
垂直精密度：within 0.003/100 mm
深冷處理：185°C
硬度：HRC56°~58°

"GAS" type super precision tool maker vise, made of quality alloy steel.
Quality and precision are stability. Achieving Europe and Japan quality test qualification.
Single side oblique angle design, can be mended the quantity of essence deformed automatically.

GAS型超精密工具萬力，採用高級合金鋼製造，設計結構和精密度都是最好的工具萬力。
由於品質和精密度穩定，在日本和歐洲均受到消費者歡迎，產品行銷全世界。
新型的單向斜角設計，能自動校正主體的變形量。



DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	WEIGHT 重量
	mm					
GAS-60	92	60	50	25	0~32	1.6kg
GAS-70	165	70	62	30	0~80	4.3kg
GAS-90	212	90	80	40	0~120	8.4kg

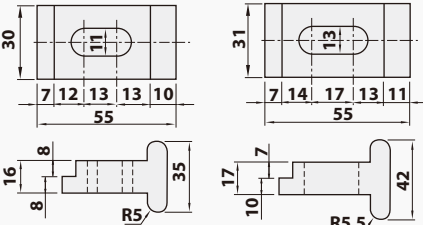
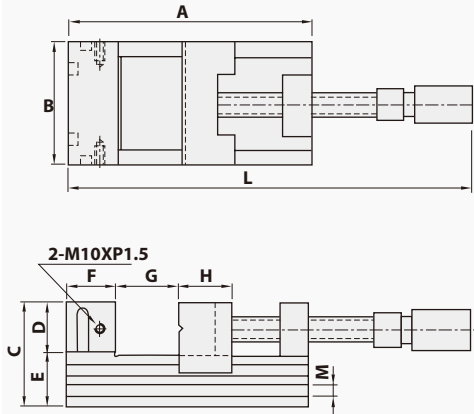
PGV-100,125

PRECISION HYDRAULIC VISE 精密油壓虎鉗



Precision hydraulic vise, made of quality alloy steel, possesses good accuracy.
Hand-in hydraulic structure designed, turning the power of light, can to play strong clamping force.
Quality and precision are stability. Achieving Europe and Japan quality test qualification.

精密油壓虎鉗，採用高級合金鋼製造，精密度佳。
採用手內油壓結構設計，轉動力量輕，就可發揮強大的夾持力。
由於品質和精密度穩定，在日本和歐洲均受到消費者歡迎，產品行銷全世界。



Material:SKS3
Parallelism:within 0.003/100 mm
Squareness:within 0.005/100 mm
Harden treatment up to HRC60°~62°
Cooling treatment: minus 185°C
Max. Clamping forces: 1500kgf
材質：SKS3
平行精密度：within 0.003/100 mm
垂直精密度：within 0.005/100 mm
深冷處理：185°C
硬度：HRC58°~62°
最大夾持力：1500kgf

DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	F	G	H	L	M	WEIGHT 重量
	mm										
PGV-100	220	100	80	40	40	40	110	50	455	9x7	10kg
PGV-125	300	125	90	40	50	60	165	70	590	10x7	19.5kg

AVV-30, 40, 50, 60

SUPER PRECISION TOOL MAKER VISE 高級萬力



"AVV" Tool maker Vise is made of high quality alloy tool steel.
It has a special feature to prevent distortion during clamping. As such, it is able to ensure work with good accuracy.
With a quick adjusting spring action to allow fast and easy size adjustmen of the clamping jaw.

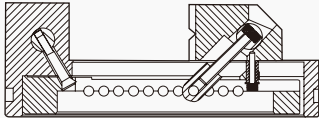
GAS型超精密工具萬力，採用高級合金鋼製造。
特殊設計防止夾持力工件時主體變形的結構，有效確保工件夾持後工具萬力的精密度，工件自然就可得到精密的加工效果。
延續其旋轉彈簧的設計，可輕易快速的移動調整夾持位置。

Material:SKS3
Parallelism: within 0.003/100 mm
Squareness: within 0.004/100 mm
Cooling treatment: minus 185°C
Harden treatment up to HRC58°~62°
材質：SKS3
平行精密度：within 0.003/100 mm
垂直精密度：within 0.004/100 mm
深冷處理：185°C
硬度：HRC58°~62°

DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
	mm							
AW-30	190	73	70	35	35	38	0~100	4.6kg
AW-40	230	98	80	40	40	46	0~125	11.4kg
AW-50	300	125	98	48	50	60	0~160	18.5kg
AW-60	350	150	100	50	50	60	0~210	24.9kg

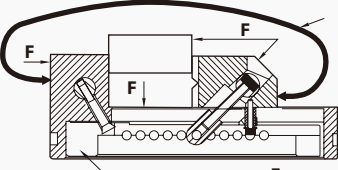
Super Precision Tool Maker Vise



New improved AVV30 Tool Maker Vise before clamping

新研發改良的AVV30超精密工具萬力，在未夾持工件而無應力的狀態。

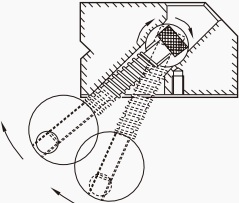
The principle of antidistortion
外型不受變形的夾持原理



All forces acting on the inner block
應力變形集中在內槽座

When the AVV30 Tool Maker Vise is clamping work piece, reaction force will act on the inner block. As such, the vise will not twist or distort, It can maintain a very high accuracy.

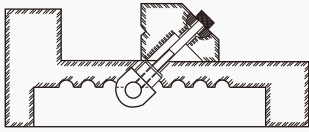
新研發改良的AVV30超精密工具萬力，因夾持工件產生應力時的狀態。內槽座因承受應力而變形，但是精密萬力的外觀以及工件的外觀並未產生彎曲的變形，固其精密度將獲得改進而大幅度提高精密度。



Upward thrust.
自動向上彈

When tightening the moving block of the vise, the spring action will act on the tightening pin. This creates a twisting force which acts on the inner block and counter balance the action force.

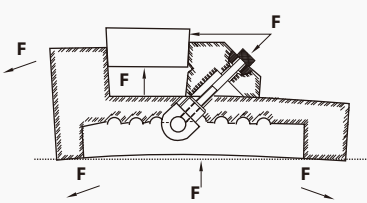
當固定軸受到彈簧所施加的壓力時，將產生一旋轉扭力，將螺絲往上彈與內槽座緊密結合在一起，產生向上彈性結構。



V30 Tool Maker Vise before clamping

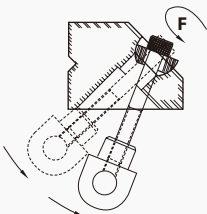
舊型的V30工具萬力，在未夾持工件而無應力的狀態。

General Tool Maker Vise



When the V30 Tool Maker Vise clamping work piece, reaction force will act on the body of the vise. As such, the vise may twisted or distorted, It can affect the accuracy of the work.

舊型的V30工具萬力，因夾持工件而產生應力時的狀態。工具萬力外觀與工件外觀皆因應力而產生彎曲變形，固其精密度較不理想。



When loosening the V30 Tool Maker Vise, the screw will move downward due to gravity force. Workers need to fix it back to position by hand.

舊型的V30工具萬力，螺絲放鬆時，插銷螺帽會往下掉。不會自動定位，需要用手動去定位。

AGV-100
PRECISION SINE VISE 精密級正弦萬力

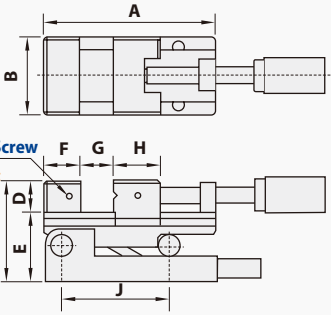


Work for getting right angle can be done while clamping a workpiece and lay down 90°

為獲得正確的角度可以做的
工作，同時夾持工件，
並定下90°

The precision sine vise is developed for processing at various angles. It is used for grinding cuttion making hole marking and measuring.

GVL-100精密級正弦萬力是設計作為多種角度的使用，它可利用研磨、切斷、鉗孔，作標記等功用。精密級正弦萬力，採新結構，操作簡易且精密度極高且穩固。



Stopper Screw
防鬆螺絲

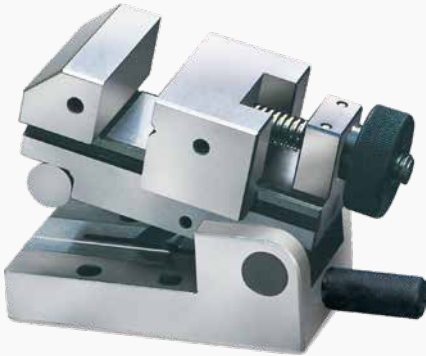
DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	F	G	H	I	J	MAX ANGLE 最大角度	WEIGHT 重量
AGP-85	160	73	93	30	63	33	80	45	M5	100	46°	6.8kg

Material: SUS440
Parallelism: within 0.003/100 mm
Squareness: within 0.005/100 mm
Harden treatment up to HRC58°~62°
Angle tol.: within 15sec within 20sec

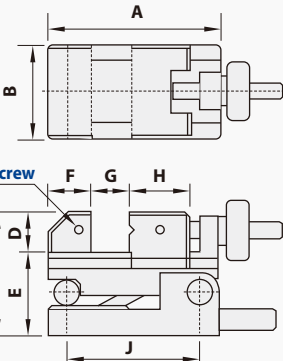
材質: SKS
平行精度: within 0.003/100 mm
垂直精度: within 0.005/100 mm
硬度: HRC58°~62°
角度誤差: 在15~20秒內

GVC-100
PRECISION SINE VISE 精密級正弦萬力



The clamp handle is placed under workpiece.

鉗柄置於工件。



Stopper Screw
防鬆螺絲

DIMENSIONS 尺寸圖

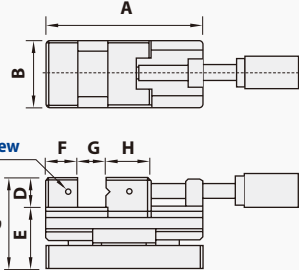
ITEM NO.	A	B	C	D	E	F	G	H	I	J	MAX ANGLE 最大角度	WEIGHT 重量
GVC-100	130	73	93	30	63	33	45	45	M5	100	46°	6kg

AGL-50
PRECISION SINE VISE 精密級側向正弦萬力



It can set horizontal angles.

它可以設置橫向角度



Stopper Screw
防鬆螺絲

DIMENSIONS 尺寸圖

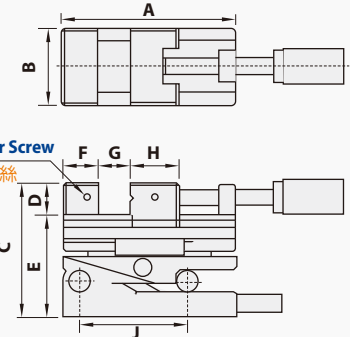
ITEM NO.	A	B	C	D	E	F	G	H	I	MAX ANGLE 最大角度	WEIGHT 重量
AGL-50	160	73	93	30	63	33	80	45	M5	46°	6.5kg

CSV-100
PRECISION COMPOUND SINE VISE 複角度精密級正弦萬力



It can process at the second angle without removing a workpiece.

它可以處理的第二個角度
不刪除一個工件。



Stopper Screw
防鬆螺絲

DIMENSIONS 尺寸圖

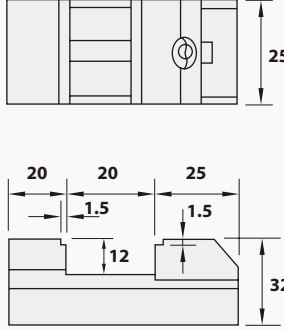
ITEM NO.	A	B	C	D	E	F	G	H	I	J	MAX ANGLE 最大角度	WEIGHT 重量
CSV-100	160	73	124	30	94	33	80	45	M5	100	46°	8.8kg

AVS-100
TOOL MAKER VISE (SMALL) 一寸工具萬力



Tool makers vise of mini type can be put in a bigger vise to process the small and precise workpiece. Also it can be used in an E.D.M. Machine and grinding machine. Squareness and parallelism: within 0.003m/m.

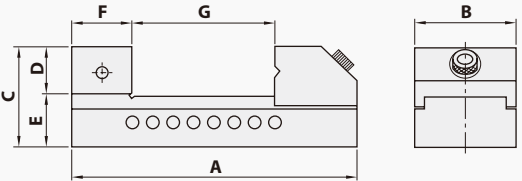
AVS工具萬力可供解決特別小物件的夾持，且精度甚高。



DIMENSIONS 尺寸圖
N.W. 0.3kg

AVB-15, 20, 25, 30, 35, 40, 50
TOOL MAKER VISE 工具萬力





DIMENSIONS 尺寸圖

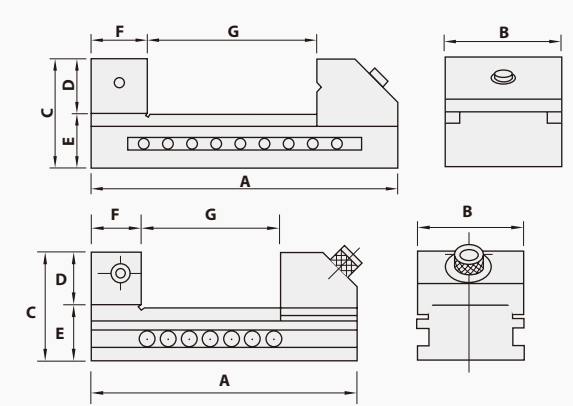
ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
AVB-15	100	36	48	20	28	25	0~40	1kg
AVB-20	150	50	53	25	28	30	0~80	1.8kg
AVB-25	175	63	63	32	31	35	0~90	3.3kg
AVB-30	190	73	70	35	35	35	0~100	4.3kg
AVB-35	235	88	80	40	40	40	0~130	7.5kg
AVB-40	245	100	90	45	45	45	0~130	10kg
AVB-50	285	125	100	50	50	45	0~160	15kg

AVS-15, 20, 25, 30, 35, 40, 50, 60

TOOL MAKER SINE VISE 成型工具萬力



Material:SK2
Parallelism:within 0.003/100 mm
Squareness:within 0.005/100 mm
Harden treatment up to HRC56°~60°
材質：SK2
平行精密度：within 0.003/100 mm
垂直精密度：within 0.005/100 mm
硬度：HRC56°~60°



DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
	mm							
AVS-15	105	36	48	20	28	25	0~40	1kg
AVS-20	150	50	53	25	28	30	0~80	1.8kg
AVS-25	175	63	63	32	31	35	0~90	3.3kg
AVS-30	190	73	70	35	35	35	0~100	4.3kg
AVS-35	235	88	80	40	40	40	0~130	7.5kg
AVS-40	245	100	90	45	45	45	0~130	10kg
AVS-50	285	125	100	50	50	45	0~160	15kg
AVS-60	330	150	100	50	50	50	0~180	20kg

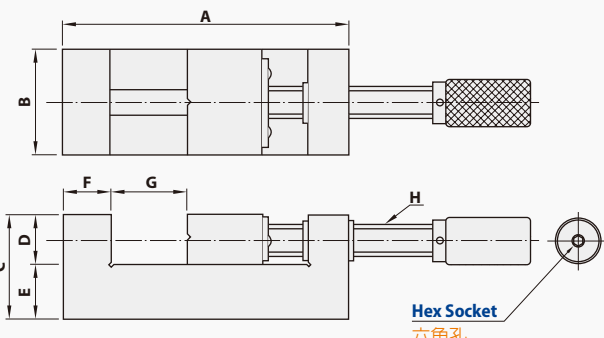
VSD-20, 25, 30, 40

TOOL MAKER VISE 手轉萬力



Tool Maker Vise makes it's clearance smallest. Hand wheel with Hex nut can be tighten by hex spanner. It is simple to dismantle the screw pole after abraded.
手轉工具萬力採新設計，使夾緊及鬆開間隙減到最小且可調整後，手輪上有內六角孔可供六角板手加壓鎖緊用，螺絲如磨損易於拆裝替換方便。

Material:SK2
Parallelism:within 0.003/100 mm
Squareness:within 0.005/100 mm
Harden treatment up to HRC56°~60°
材質：SK2
平行精密度：within 0.003/100 mm
垂直精密度：within 0.005/100 mm
硬度：HRC56°~60°



DIMENSIONS 尺寸圖

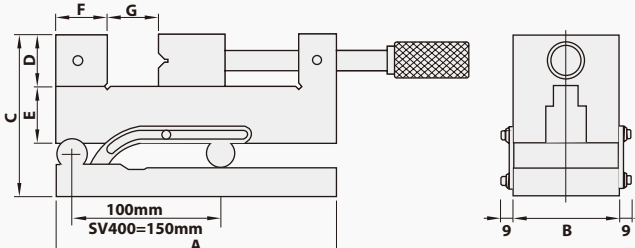
ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
	mm							
VSD-20	156	48	87.5	25	27	25	0~63	2.5kg
VSD-25	176	63	63	30	33	30	0~73	4.5kg
VSD-30	190	73	103.5	35	38	35	0~76	6kg
VSD-40	255	98	82	40	42	40	0~120	12kg

ASV-200, 250, 300, 400

TOOL MAKER SINE VISE 手轉正弦萬力



Harden treatment up to HRC56°~60°
硬度：HRC56°~60°



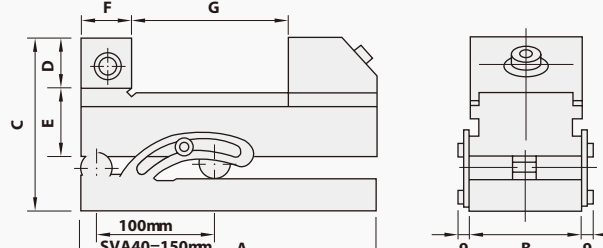
DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
	mm							
ASV-200	156	48	87.5	25	27	25	0~63	4.4kg
ASV-250	176	63	98.5	30	33	30	0~73	7kg
ASV-300	190	73	103.5	35	33	35	0~76	9kg
ASV-400	255	98	120.5	40	42	40	0~120	16kg

SVA-20, 25, 30, 40

TOOL MAKER SINE VISE 正弦萬力





DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	F	G	WEIGHT 重量
	mm							
SVA-20	150	48	88.5	25	28	25	0~75	2.6kg
SVA-25	176	63	94.5	30	29	30	0~85	4.8kg
SVA-30	190	73	103.5	35	33	35	0~95	7kg
SVA-40	245	98	126.5	45	45	45	0~125	15.5kg

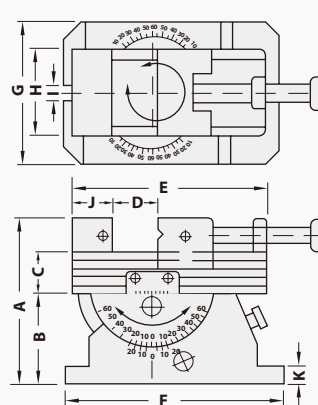
CHM-80

PRECISION UNIVERSAL VISE 萬向精密虎鉗



刻度精確，適合精密加工。
水平回轉360°
垂直傾斜45°
最適合精密平磨、搪、銑床，放電加工機等之平面或傾斜面及角度斜孔加工。

Precision graduation for accurate reading.
Horizontal swivel through 360°.
The unit tilts 45° vertically.
Its swivelling and tilting features make this unit well suited for straight or inclined surface, angular drilling machining on various machine tools as precision grinding machine, boring and milling machine, electrical discharge machine etc.



DIMENSIONS 尺寸圖

ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	WEIGHT 重量	
	mm												
CHM-80	137	75	32	80	160	178	110	70	16	33	15	14kg	

ACCESSORIES 配件

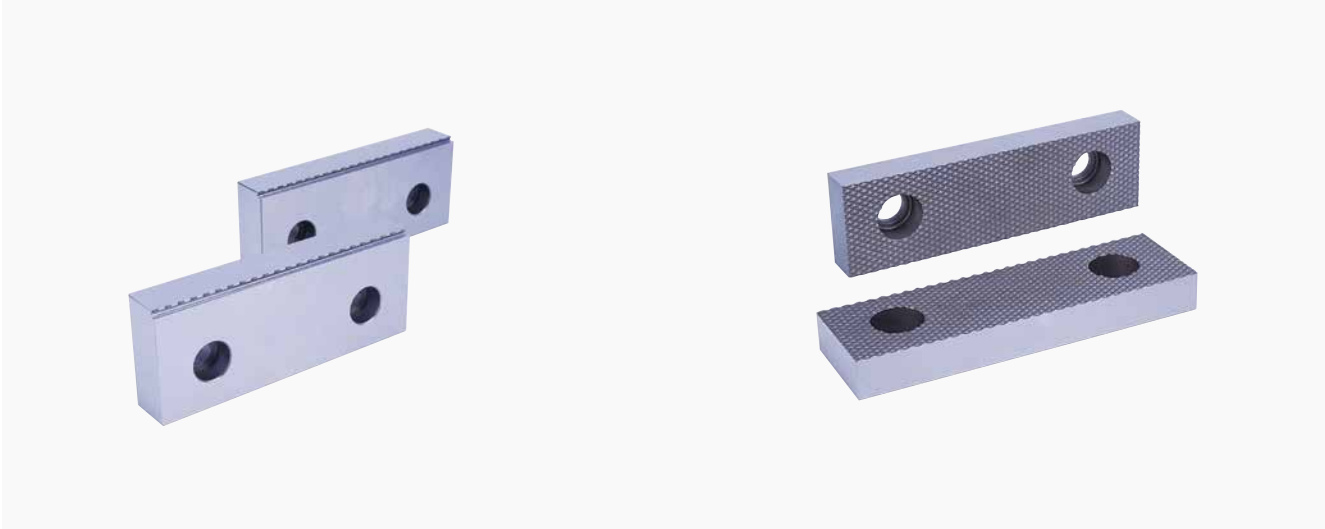
HANDLES 鋁把手



HANDLES 各式把手

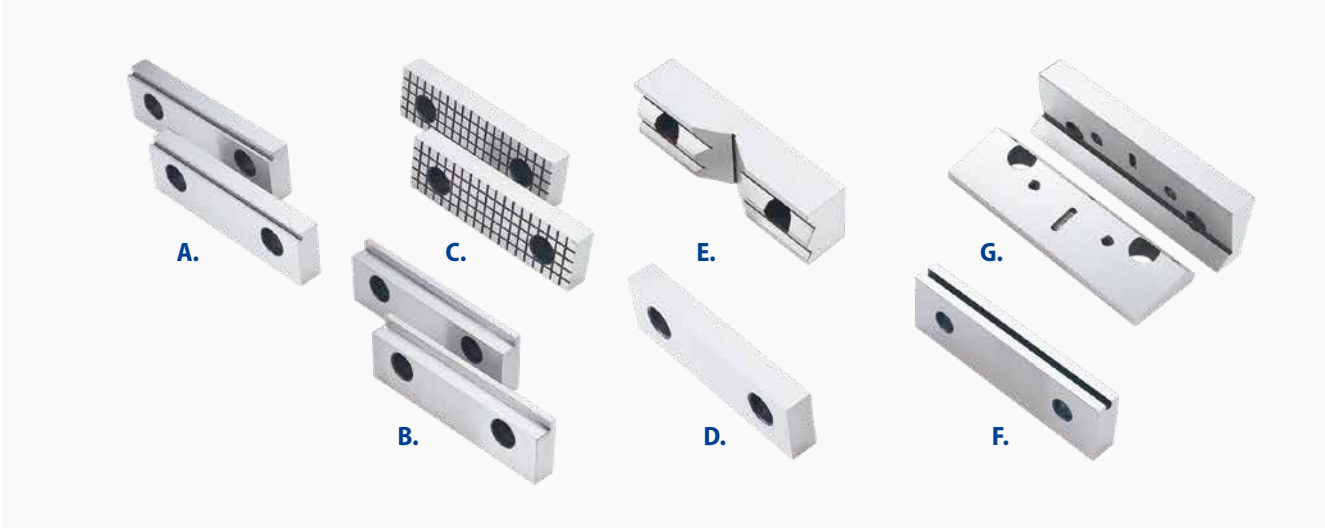


SPECIAL JAWS 鋸齒鉗口



ACCESSORIES 配件

SPECIAL JAWS 特殊鉗口



WORKSTOP 工件基準桿



CLAMPING KIT 萬能夾具組

ITEM NO.	T-slot	Stud Size	Step Block Width mm
ACK-103A	7/16	3/8-16	1" (STB14, STB24, STB34)
ACK-103B	1/2	3/8-16	1" (STB14, STB24, STB34)
ACK-103C	9/16	3/8-16	1" (STB14, STB24, STB34)
ACK-104A	9/16	1/2-16	1" or 1 1/4"
ACK-104B	5/8	or	(STB14, STB24, STB34)
ACK-104C	11/16	1/2-13	or (STB15, STB25, STB35)
ACK-105A	11/16	5/8-11	1" or 1 1/4"
ACK-105B	3/4		(STB14, STB24, STB34)
ACK-105C	13/16		or (STB15, STB25, STB35)
ACK-08	10	M8xP1.25	1" (STB14, STB24, STB34)
ACK-10	12	M10xP1.5	1" (STB15, STB24, STB34)
ACK-12A	14	M12xP1.75	1" (STB14, STB24, STB34)
ACK-12B	16	M12xP1.75	1" (STB14, STB24, STB34)
ACK-12C	18	M12xP1.75	1" (STB14, STB24, STB34)
ACK-14	16	M14xP2.0	1" (STB14, STB24, STB34)
ACK-16	18	M16xP2.0	1" (STB14, STB24, STB34)

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