

MOST SUITABLE FOR VERTICAL MACHINE CENTER, MILLING MACHINE

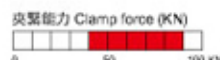
最適合立式綜合切削加工機，銑床使用

MC · Hydraulic

肯倍得 / 油壓型

MODEL • 07120100 CHV-100V • 07120160 CHV-160V
• 07120130 CHV-130V • 07120200 CHV-200V
(定寸規格)

• 07125100 CHV-100S • 07125160 CHV-160S
• 07125130 CHV-130S • 07125200 CHV-200S
(不定寸規格)



PATENTED / 專利在案

FEATURES :

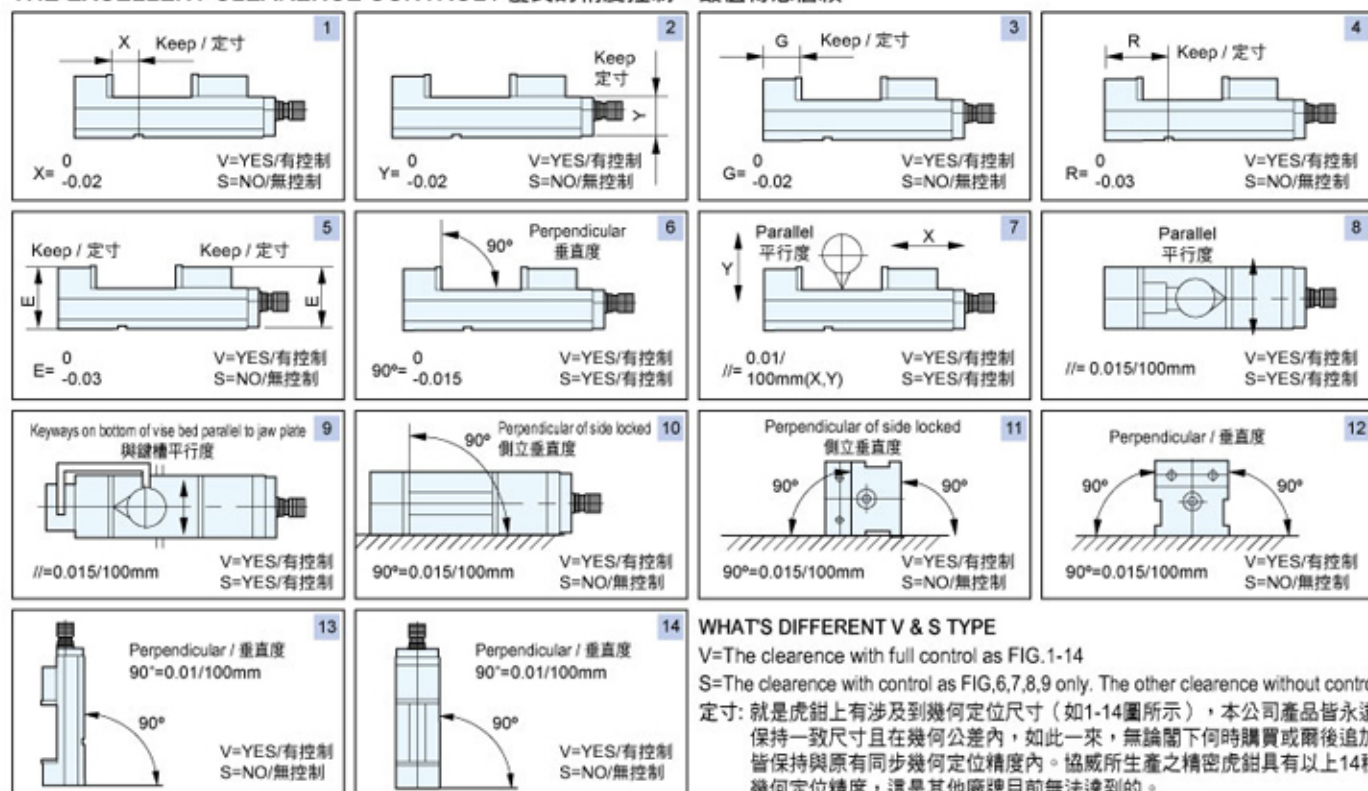
- Holding Work-piece firmly in single and multiple vises setup.
- Clamping system: Mechanical / Hydraulic.
- Semi-spherical segment eliminates jaw lifting and work-piece tilting.
- One piece casting of vise bed and fixed jaw.
- Rigid material-ductile iron FCD600 JIS (Equal to GGG-60) with 60kgs/mm² or 80,000psi tensile strength.
- Vise bed flame hardened to HRC45° and up takes up wear and maintain accuracy for long.
- Chip covers adopt on each vise for preventing chips falling into lead-screw and inside of vise.

特性：

- 角固定式肯倍得式精密油壓虎鉗，適用立、臥式綜合切削加工機做重切削精密切削加工。
- 夾緊系統：機械式 / 油壓式。
- 角固定式半圓球可產生角固定鎖之力~可消除虎口板上浮和工件傾斜。
- 強而有力材質~虎鉗本台使用高抗張拉力球狀石墨化鑄(FCD600~60kgs/mm²) (80,000psi)抗張力強，不易變形。
- 虎鉗本台滑動面均經硬化熱處理HRC45°以上，可保持長久耐磨性及精度。
- 活動調整螺絲，可隨時調整虎鉗最適當之精度。
- 虎鉗共有四種不同夾持開口供選用。
- 虎鉗防屑設計，以防止加工鐵屑傾入傳動螺桿及虎鉗內部，不易清除。



THE EXCELLENT CLEARANCE CONTROL / 優良的精度控制，最值得您信賴



MC COMPACT MECHANICAL / HYDRAULIC VISE
MC 角固式 / 肯倍得式精密油壓虎鉗

MODEL • 07813100 SBD-100 • 07813160 SBD-160 • 07813250 SBD-250
 • 07813130 SBD-130 • 07813200 SBD-200

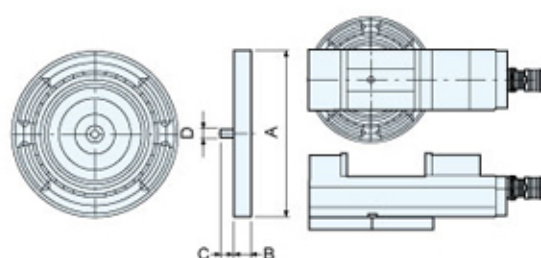
Unit: mm

SWIVEL BASE (STEEL) / 全鋼製迴轉盤
FEATURES :

- The whole swivel base by made of steel by hardness and take up wear and maintain accuracy for long.

特性：

- 整座迴轉盤全用鋼材製成，並經硬化熱處理，堅固、耐用、精度高。


Standard Accessories

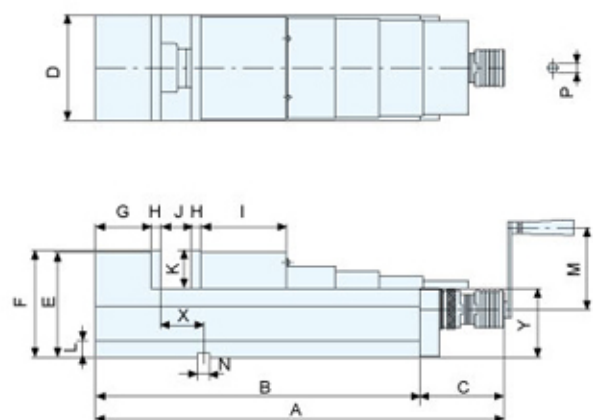
- Handle x 1 pc
- Guide key x 2 pcs
M6 x 10L x 2 pcs
- Vise locked block x 4 pcs
- Chip cover x 1 set

標準附件

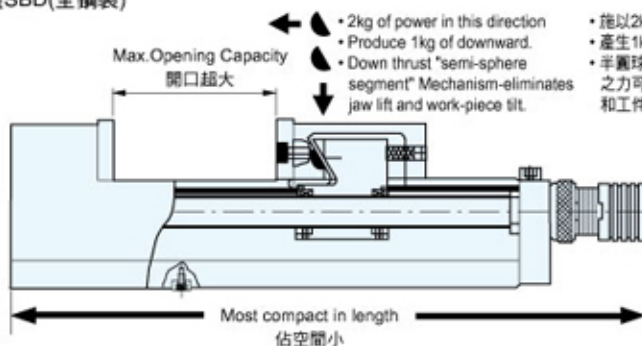
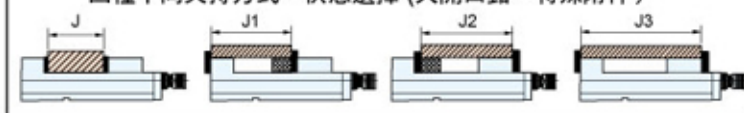
- 把手一組
- 導正鍵2只
螺絲 x 2只 (M6 x 10L)
- 虎鉗固定塊4只
- 虎鉗伸縮防屑蓋

Optional Accessories

- Special Application Jaw Plates (P81,82)
 - Swivel Base-SBD (Steel)
- 特殊附件**
- 特殊虎口 (P81,82)
 - 迴轉盤SBD(全鋼製)


世界級品質：

CHV型式是一種油壓式功能夾鉗，其精度等級分V,S兩種款式，其V款式具備有世界級精度品質（如下圖1-14所示完全具備），這是一台完全具有同步之幾何定位精度之精密虎鉗（定寸和垂直同時具備），無論閣下多少年前購買，今天或未來欲追加購買時皆與先前之幾何定位精度永遠保持同步一致。如此一來，可免除閣下每次欲追加虎鉗皆無法與先前虎鉗保有同步幾何定位精度，可防止多台虎鉗混亂且精度不一導致工件做壞。閣下購買虎鉗時，先比較精度品質，協威的精度品質是值得您信賴的。


THE 4 WAYS OF CLAMPING FOR YOUR BEST CHOICE
 四種不同夾持方式，供您選擇（大開口鉗，特殊附件）

PATENTED / 專利在案

Unit: mm, kg

Order NO. 訂購編號	Model 型號	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	L
07120100	CHV-100V	475	340	135	101	130	133	65	15	105	0-125	125-190	125-230	125-320	48	22
07125100	CHV-100S	475	340	135	101	130	133	65	15	105	0-125	125-190	125-230		48	22
07120130	CHV-130V	540	405	135	131	147	150	70	15	115	0-180	180-240	180-290	180-380	55	22
07125130	CHV-130S	540	405	135	131	147	150	70	15	115	0-180	180-240	180-290		55	22
07120160	CHV-160V	630	495	135	161	160	163	85	15	130	0-240	240-320	240-360	240-470	58	22
07125160	CHV-160S	630	495	135	161	160	163	85	15	130	0-240	240-320	240-360		58	22
07120200	CHV-200V	705	570	135	201	170	173	90	18	150	0-280	280-360	280-420	280-540	63	22
07125200	CHV-200S	705	570	135	201	170	173	90	18	150	0-280	280-360	280-420		63	22

Order NO. 訂購編號	Model 型號	M	N	P	X	X= 0 -0.02	Y	Y= 0 -0.02	Max. Pressure 最大油壓夾緊力	Limit. Pressure 極限油壓夾緊力	N.W. 淨重	G.W. 毛重	Shipment Size 裝箱尺寸	Remark 備註
07120100	CHV-100V	125	16	14	45	YES	85	YES	36KN(3528kgf)	41KN(4018kgf)	25	27	600x220x185	
07125100	CHV-100S	125	16	14	45	NO	85	NO	36KN(3528kgf)	41KN(4018kgf)	25	27	600x220x185	
07120130	CHV-130V	125	18	14	65	YES	95	YES	46KN(4508kgf)	52KN(5096kgf)	38	40	665x250x205	
07125130	CHV-130S	125	18	14	65	NO	95	NO	46KN(4508kgf)	52KN(5096kgf)	38	40	665x250x205	
07120160	CHV-160V	125	18	14	65	YES	105	YES	56KN(5488kgf)	61KN(5978kgf)	57	60	760x280x215	
07125160	CHV-160S	125	18	14	65	NO	105	NO	56KN(5488kgf)	61KN(5978kgf)	57	60	760x280x215	
07120200	CHV-200V	125	18	14	82	YES	110	YES	71KN(6958kgf)	82KN(8036kgf)	78	81	860x320x225	
07125200	CHV-200S	125	18	14	82	NO	110	NO	71KN(6958kgf)	82KN(8036kgf)	78	81	860x320x225	



Best aid
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台灣精品 1997
TAIWAN EXCELLENCE

CHV-D

MOST SUITABLE FOR VERTICAL MACHINE CENTER

最適合立式綜合切削加工機，銑床使用

MC · Hydraulic-2

肯倍得 / 雙向型

MODEL • 07140100 CHV-100V-D • 07140160 CHV-160V-D
• 07140130 CHV-130V-D • 07140200 CHV-200V-D
(定寸規格)

• 07145100 CHV-100S-D • 07145160 CHV-160S-D
• 07145130 CHV-130S-D • 07145200 CHV-200S-D
(不定寸規格)



夾緊能力 Clamp force (KN)
0 50 100 KN



夾緊能力 Clamp force (KN)
0 50 100 KN

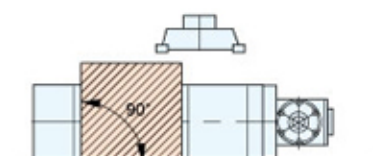
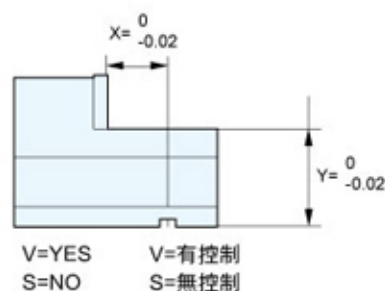
PATENTED / 專利在案

FEATURES :

- Holding work-piece firmly in single and multiple vises setup.
- Clamping system: Hydraulic.
- Semi-spherical segment eliminates jaw lifting and work-piece tilting.
- One piece casting of vise bed and fixed jaw.
- Rigid material-Ductile iron FCD600 JIS (Equal to GGG-60) with 60kgs/mm² or 80,000psi tensile strength.
- Vise bed flange hardened to HRC45° and up takes up wear and maintain accuracy for long.
- Chip covers adopt on each vise for preventing chips falling into lead-screw and inside of vise.
- With 90° driving mechanism unit, Avoid handle interrupted of table.

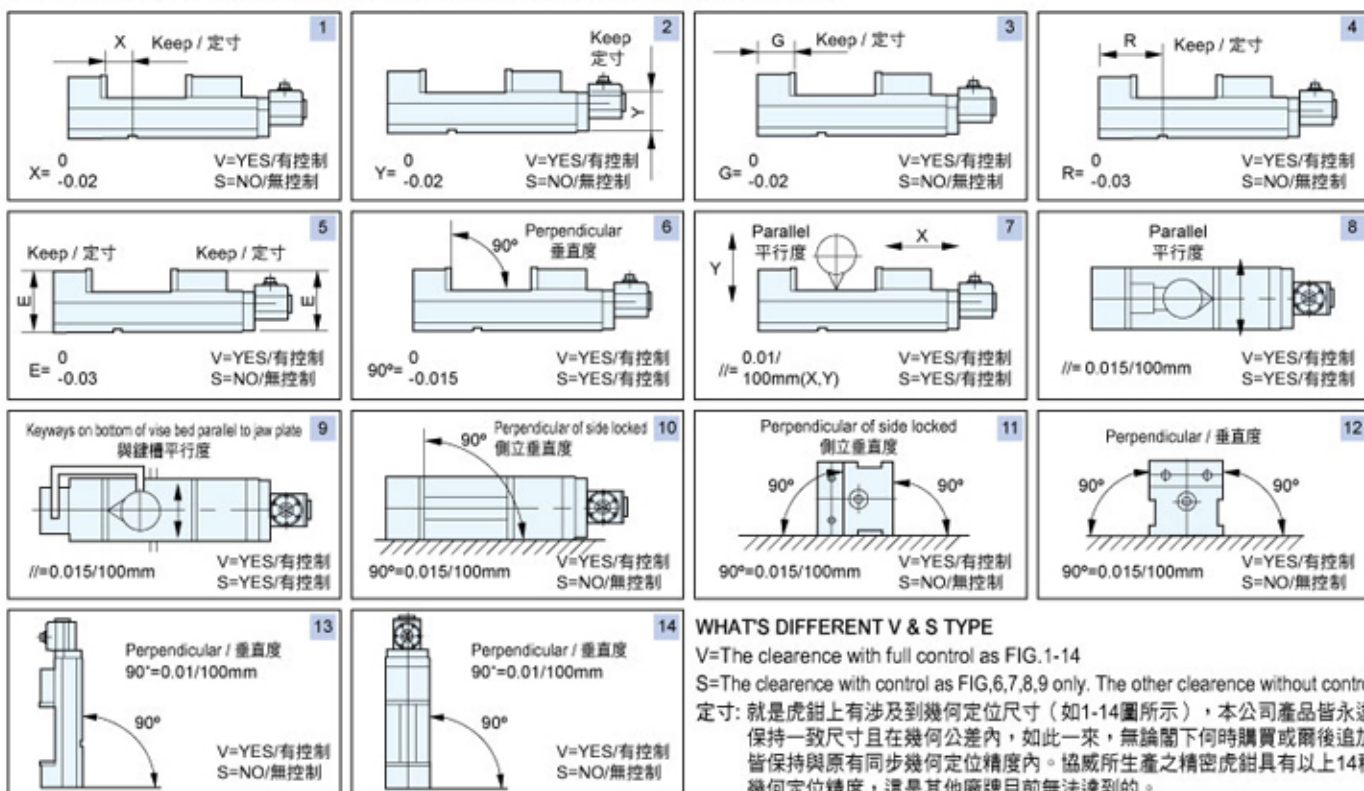
特性：

- 角固式肯倍得精密油壓虎鉗，適用立、臥式綜合切削加工機做重切削精密切削加工。
- 夾緊系統：油壓式。
- 角固式半圓球可產生角固下鎖之力~可消除虎口板上浮和工件傾斜。
- 強而有力材質~虎鉗本台使用高抗張拉力球狀石墨化鑄鐵(FCD600~60kgs/mm²)(80,000psi)抗張力強，不易變形。
- 虎鉗本台滑動面均經硬化熱處理HRC45°以上，可保持長久耐用性及精度。
- 活動調整螺絲，可隨時調整虎鉗最適當之精度。
- 把手雙向設計，水平、垂直方向均可使用，以防止把手干涉。
- 虎鉗共有四種不同夾持開口供選用。
- 虎鉗防屑設計，以防止加工鐵屑傾入傳動螺桿及虎鉗內部，不易清除。



V=Side lock control perpendicular
S=Side lock without control perpendicular
V=側立控制直角度
S=側立無控制直角度

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WHAT'S DIFFERENT V & S TYPE

V=The clearance with full control as FIG.1-14

S=The clearance with control as FIG.6,7,8,9 only. The other clearance without control.

定寸：就是虎鉗上有涉及到幾何定位尺寸（如1-14圖所示），本公司產品皆永遠保持一致尺寸且在幾何公差內，如此一來，無論閣下何時購買或爾後追加皆保持與原有同步幾何定位精度內。協威所生產之精密虎鉗具有以上14種幾何定位精度，這是其他廠牌目前無法達到的。



MC COMPACT HYDRAULIC VISE WITH 90° DRIVING MECHANISM UNIT

MC 角固式 / 肯倍得式精密油壓虎鉗 / 雙把手式

MODEL • 07813100 SBD-100 • 07813160 SBD-160 • 07813250 SBD-250
• 07813130 SBD-130 • 07813200 SBD-200

Unit: mm

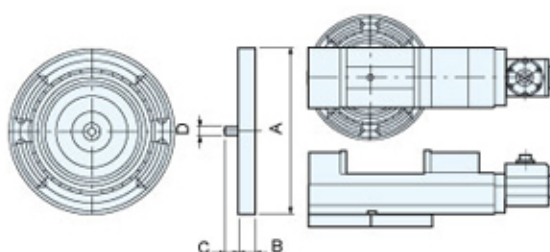
SWIVEL BASE (STEEL) / 全鋼製迴轉盤

FEATURES :

- The whole swivel base by made of steel by hardness and take up wear and maintain accuracy for long.

特性：

- 整座迴轉盤全用鋼材製成，並經硬化熱處理，堅固、耐用、精度高。



Order NO. 訂購編號	SBD	A	B	C	D	N.W. 淨重
07813100	100	248	29	25	16	6.6kg
07813130	130	296	32	25	18	10.6kg
07813160	160	328	34	25	18	15.5kg
07813200	200	378	44	25	18	27.2kg
07813250	250	446	50	27	22	44.0kg

世界級品質：

CHV-D型式是一種油壓式功能夾緊，其精度等級分V、S兩種款式，其V款式具備有世界級精度品質（如下圖1-14所示完全具備），這是一台完全具有同步之幾何定位精度之精密虎鉗（定寸和垂直同時具備），無論閣下多少年前購買，今天或未來欲追加購買時皆與先前之幾何定位精度永遠保持同步一致。如此一來，可免除閣下每次欲追加虎鉗皆無法與先前虎鉗保有同步幾何定位精度，可防止多台虎鉗混亂且精度不一導致工件做壞。閣下購買虎鉗時，先比較精度品質，協威的精度品質是值得您信賴的。

Standard Accessories

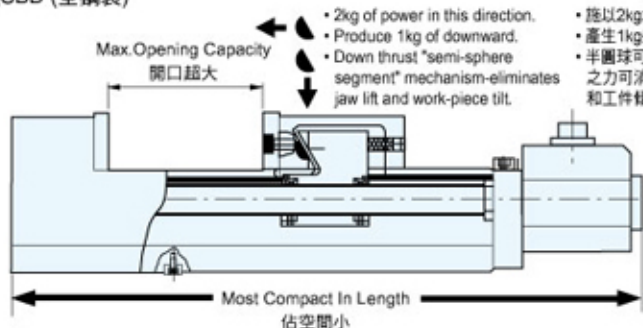
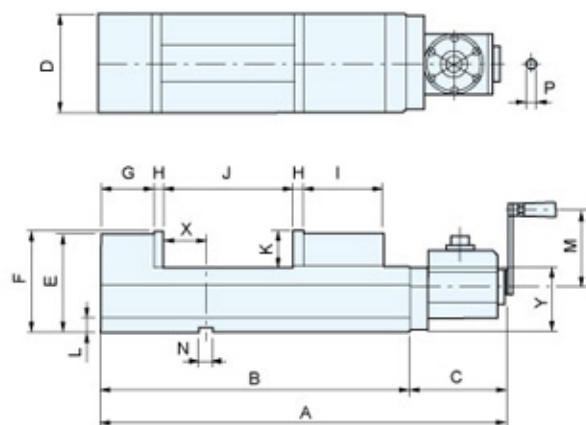
- Handle x 1 pc
- Guide key x 2 pcs
M6 x 10L x 2 pcs
- Vise locked block x 4 pcs
- Chip cover x 1 set

標準附件

- 把手一組
- 導正鍵2只
螺絲 x 2只 (M6 x 10L)
- 虎鉗固定塊4只
- 虎鉗伸縮防屑蓋

Optional Accessories

- Special Application Jaw Plates (P81,82)
 - Swivel Base-SBD (Steel)
- 特殊附件**
- 特殊虎口 (P81,82)
 - 迴轉盤SBD (全鋼製)



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四種不同夾持方式，供您選擇（大開口鉗，特殊附件）



Unit: mm, kg

Order NO. 訂購編號	Model 型號	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	L
07140100	CHV-100V-D	512	340	172	101	130	133	65	15	105	0-125	125-190	125-230	125-320	48	22
07145100	CHV-100S-D	512	340	172	101	130	133	65	15	105	0-125	125-190	125-230		48	22
07140130	CHV-130V-D	577	405	172	131	147	150	70	15	115	0-180	180-240	180-290	180-380	55	22
07145130	CHV-130S-D	577	405	172	131	147	150	70	15	115	0-180	180-240	180-290		55	22
07140160	CHV-160V-D	667	495	172	161	160	163	85	15	130	0-240	240-320	240-360	240-470	58	22
07145160	CHV-160S-D	667	495	172	161	160	163	85	15	130	0-240	240-320	240-360		58	22
07140200	CHV-200V-D	742	570	172	201	170	173	90	18	150	0-280	280-360	280-420	280-540	63	22
07145200	CHV-200S-D	742	570	172	201	170	173	90	18	150	0-280	280-360	280-420		63	22

Order NO. 訂購編號	Model 型號	M	N	P	X	X=0 -0.02	Y	Y=0 -0.02	Max. Pressure 最大油壓夾緊力	Limit. Pressure 極限油壓夾緊力	N.W. 淨重	G.W. 毛重	Shipment Size 裝箱尺寸	Remark 備註
07140100	CHV-100V-D	125	16	14	45	YES	85	YES	36KN(3528kgf)	41KN(4018kgf)	29	31	600x220x185	
07145100	CHV-100S-D	125	16	14	45	NO	85	NO	36KN(3528kgf)	41KN(4018kgf)	29	31	600x220x185	
07140130	CHV-130V-D	125	18	14	65	YES	95	YES	46KN(4508kgf)	52KN(5096kgf)	42	44	665x250x205	
07145130	CHV-130S-D	125	18	14	65	NO	95	NO	46KN(4508kgf)	52KN(5096kgf)	42	44	665x250x205	
07140160	CHV-160V-D	125	18	14	65	YES	105	YES	56KN(5488kgf)	61KN(5978kgf)	63	65	760x280x215	
07145160	CHV-160S-D	125	18	14	65	NO	105	NO	56KN(5488kgf)	61KN(5978kgf)	63	65	760x280x215	
07140200	CHV-200V-D	125	18	14	82	YES	110	YES	71KN(6958kgf)	82KN(8036kgf)	83	86	860x320x225	
07145200	CHV-200S-D	125	18	14	82	NO	110	NO	71KN(6958kgf)	82KN(8036kgf)	83	86	860x320x225	



MOST SUITABLE FOR VERTICAL MACHINE CENTER, MILLING MACHINE

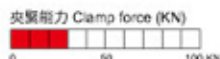
最適合立式綜合切削加工機，銑床使用

MC · Mechanical

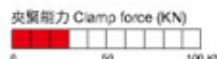
肯倍得 / 機械型

MODEL • 07100100 CV-100V • 07100160 CV-160V
• 07100130 CV-130V • 07100200 CV-200V
(定寸規格)

• 07105100 CV-100S • 07105160 CV-160S
• 07105130 CV-130S • 07105200 CV-200S
(不定寸規格)



PATENTED / 專利在案



FEATURES :

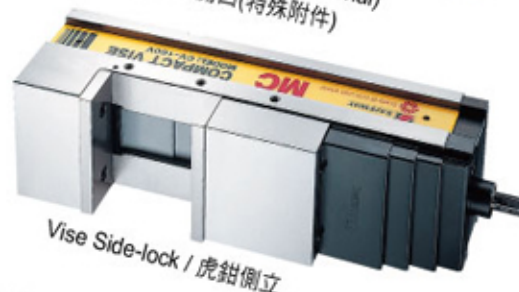
- Holding work-piece firmly in single and multiple vises setup.
- Clamping system: Lead screw.
- Semi-spherical segment eliminates jaw lifting and work-piece tilting.
- One piece casting of vise bed and fixed jaw.
- Rigid material-ductile iron FCD600 JIS (Equal to GGG-60) with 60kgs/mm² or 80,000psi tensile strength.
- Vise bed flame hardened to HRC45° and up takes up wear and maintain accuracy for long.
- Chip covers adopt on each vise for preventing chips falling into lead-screw and inside of vise.

特性：

- 角固式肯倍得式精密機械虎鉗，適用立、臥式綜合切削加工機做精密切削加工。
- 夾緊系統：螺桿夾緊。
- 角固式半圓球可產生角固下鎖之力~可消除虎口板上浮和工件傾斜。
- 強而有力材質~虎鉗本台使用高抗張拉力球狀石墨鑄鐵 (FCD600~60kgs/mm²) (80,000psi) 抗張力強，不易變形。
- 虎鉗本台滑動面均經硬化熱處理 HRC45°以上，可保持長久耐磨性及精度。
- 活動調整螺絲，可隨時調整虎鉗最適當之精度。
- 虎鉗共有四種不同夾持開口供選用。
- 虎鉗防屑設計，以防止加工鐵屑傾入傳動螺桿及虎鉗內部，不易清除。

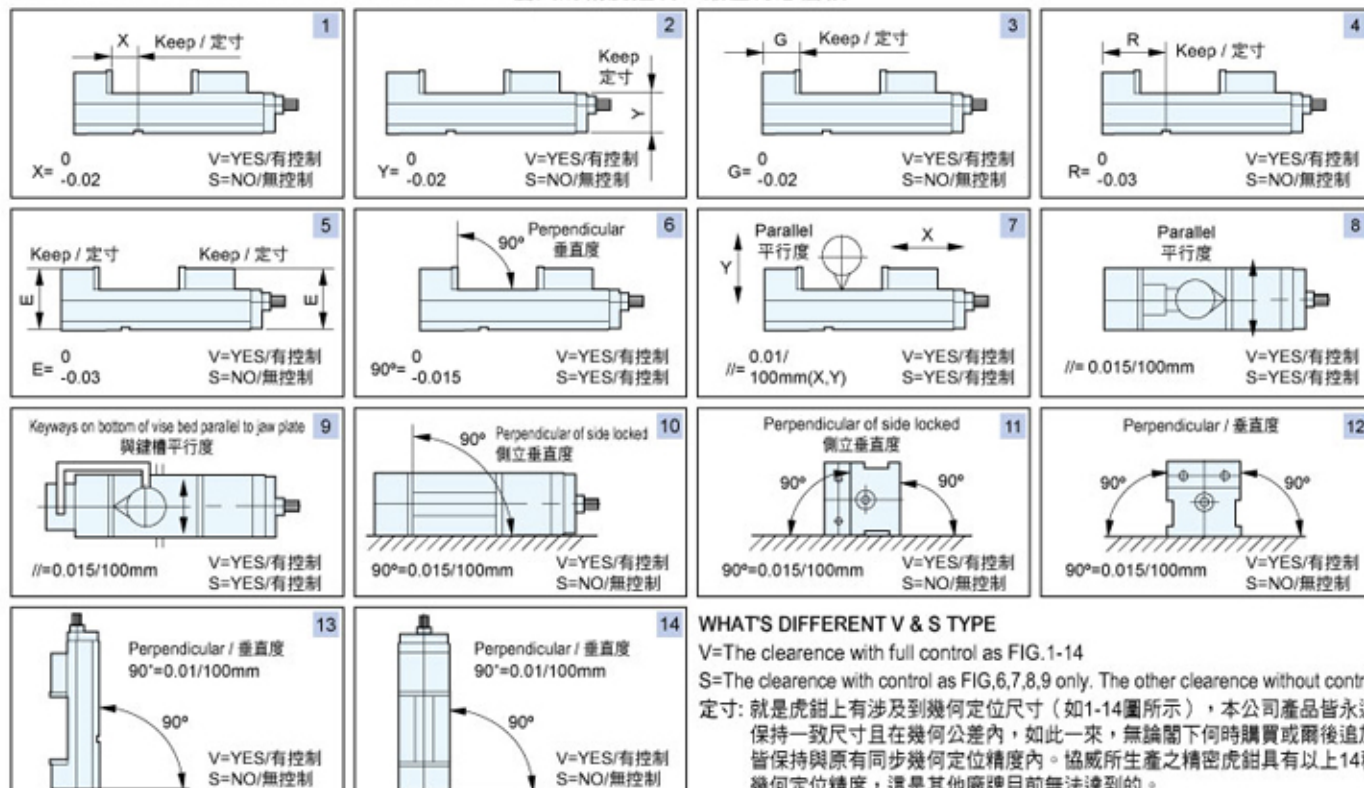


Vise Max. Opening (Optional)
虎鉗大開口(特殊附件)



Vise Side-lock / 虎鉗側立

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WHAT'S DIFFERENT V & S TYPE

V=The clearance with full control as FIG.1-14

S=The clearance with control as FIG.6,7,8,9 only. The other clearance without control.

定寸: 就是虎鉗上有涉及到幾何定位尺寸 (如1-14圖所示)，本公司產品皆永遠保持一致尺寸且在幾何公差內，如此一來，無論閣下何時購買或爾後追加皆保持與原有同步幾何定位精度內。協成所生產之精密虎鉗具有以上14種幾何定位精度，這是其他廠牌目前無法達到的。



MC COMPACT VISE

MC 角固式 / 肯倍得式精密機械虎鉗

MODEL • 07813100 SBD-100 • 07813160 SBD-160 • 07813250 SBD-250
• 07813130 SBD-130 • 07813200 SBD-200

Unit: mm

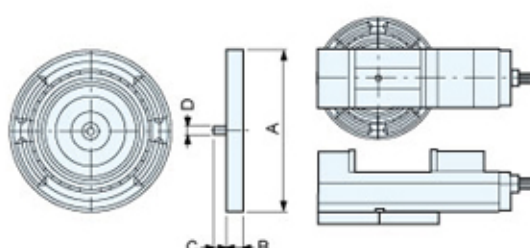
SWIVEL BASE (STEEL) / 全鋼製迴轉盤

FEATURES :

- The whole swivel base by made of steel by hardness and take up wear and maintain accuracy for long.

特性：

- 整座迴轉盤全用鋼材製成，並經硬化熱處理，堅固、耐用、精度高。



Order NO. 訂購編號	SBD	A	B	C	D	N.W. 淨重
07813100	100	248	29	25	16	6.6kg
07813130	130	296	32	25	18	10.6kg
07813160	160	328	34	25	18	15.5kg
07813200	200	378	44	25	18	27.2kg
07813250	250	446	50	27	22	44.0kg

世界級品質：

CV型式是一種機械式功能夾緊，其精度等級分V,S兩種款式，其V款式具備有世界級精度品質(如下圖1-14所示完全具備)，這是一台完全具有同步之幾何定位精度之精密虎鉗(定寸和垂直同時具備)，無論閣下多少年前購買，今天或未來欲追加購買時皆與先前之幾何定位精度永遠保持同步一致。如此一來，可免除閣下每次欲追加虎鉗皆無法與先前虎鉗保有同步幾何定位精度，可防止多台虎鉗混亂且精度不一導致工件做壞。閣下購買虎鉗時，先比較精度品質，協威的精度品質是值得您信賴的。

Standard Accessories

- Handle x 1 pc
- Guide key x 2 pcs
M6 x 10L x 2 pcs
- Vise locked block x 4 pcs
- Chip cover x 1 set

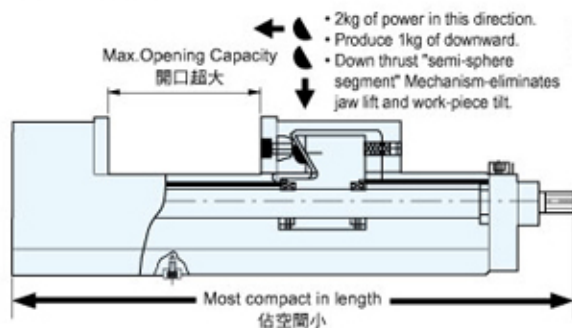
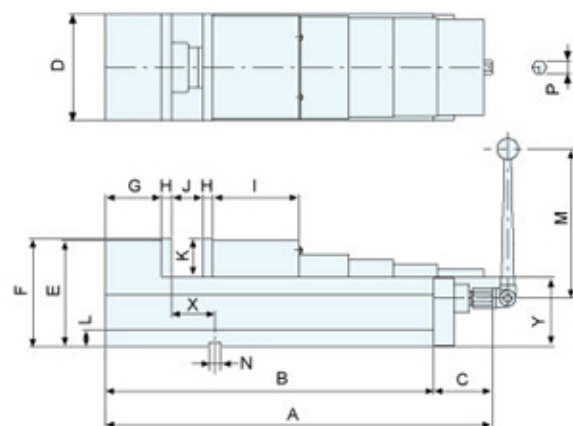
標準附件

- 把手一組
- 導正鍵2只
螺絲 x 2只 (M6 x 10L)
- 虎鉗固定塊4只
- 虎鉗伸縮防屑蓋

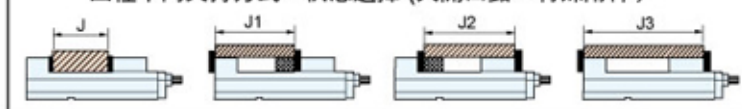
Optional Accessories

- Special Application Jaw Plates (P81,82)
 - Swivel Base-SBD (Steel)
- 特殊附件
- 特殊虎口 (P81,82)
 - 迴轉盤SBD(全鋼製)

DIMENSIONS / 尺寸圖



THE 4 WAYS OF CLAMPING FOR YOUR BEST CHOICE 四種不同夾持方式，供您選擇 (大開口鉗，特殊附件)



Unit: mm, kg

Order NO. 訂購編號	Model 型號	A	B	C	D	E	F	G	H	I	J	J1	J2	J3
07100100	CV-100V	430	340	90	101	130	133	65	15	105	0-125	125-190	125-230	125-320
07105100	CV-100S	430	340	90	101	130	133	65	15	105	0-125	125-190	125-230	
07100130	CV-130V	495	405	90	131	147	150	70	15	115	0-180	180-240	180-290	180-380
07105130	CV-130S	495	405	90	131	147	150	70	15	115	0-180	180-240	180-290	
07100160	CV-160V	585	495	90	161	160	163	85	15	130	0-240	240-320	240-360	240-470
07105160	CV-160S	585	495	90	161	160	163	85	15	130	0-240	240-320	240-360	
07100200	CV-200V	666	570	96	201	170	173	90	18	150	0-280	280-360	280-420	280-540
07105200	CV-200S	666	570	96	201	170	173	90	18	150	0-280	280-360	280-420	

Order NO. 訂購編號	Model 型號	K	L	M	N	P	X	X= 0 -0.02	Y	Y= 0 -0.02	N.W. 淨重	G.W. 毛重	Shipment Size 裝箱尺寸	Remark 備註
07100100	CV-100V	48	22	260	16	19	45	YES	85	YES	24	26	600x220x185	
07105100	CV-100S	48	22	260	16	19	45	NO	85	NO	24	26	600x220x185	
07100130	CV-130V	55	22	260	18	19	65	YES	95	YES	37	39	665x250x205	
07105130	CV-130S	55	22	260	18	19	65	NO	95	NO	37	39	665x250x205	
07100160	CV-160V	58	22	260	18	19	65	YES	105	YES	57	59	760x280x215	
07105160	CV-160S	58	22	260	18	19	65	NO	105	NO	57	59	760x280x215	
07100200	CV-200V	63	22	260	18	19	82	YES	110	YES	77	80	860x320x225	
07105200	CV-200S	63	22	260	18	19	82	NO	110	NO	77	80	860x320x225	



Best aid
SAFEMATE

ISO-9001:2008

DAV

MOST SUITABLE FOR VERTICAL MACHINE CENTER, MILLING MACHINE

最適合立式綜合切削加工機，銑床使用

MC · 2 in 1

肯倍得 / 雙量型

MODEL • 07190100 DAV-100V • 07190160 DAV-160V • 07195100 DAV-100S • 07195160 DAV-160S
• 07190130 DAV-130V • 07190200 DAV-200V • 07195130 DAV-130S • 07195200 DAV-200S
(定寸規格) (不定寸規格)

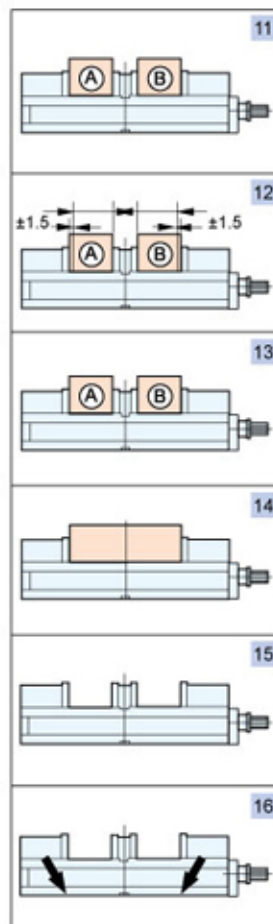


夾緊能力 Clamp force (KN)
0 50 100 KN

PATENTED
專利在案

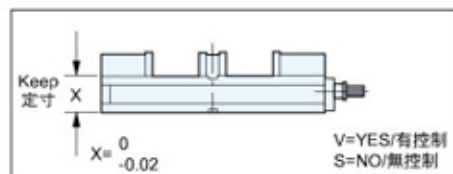


夾緊能力 Clamp force (KN)
0 50 100 KN

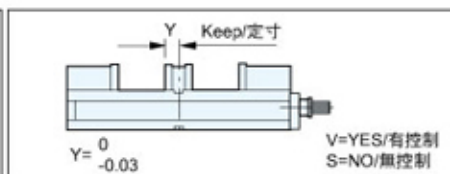


- 11. Patented mechanical clamping lock down jaw mechanism**
11-1 Workpiece are held securely and precisely for heavy machining
11-2 No minimum limit on size of workpiece clamping range is freely adjusted from 0 to the maximum jaw opening see fig P62
- 12. As long as size tolerance clearance is $\pm 1.5\text{mm}$ for parts**
12-1 The vise can clamp parts without re-adjusting the clamping position meanwhile the clamping power is equal on 2 parts.
- 13. When install the part first install part A, after part B. When take out the part first take out part B, after part A.**
13-1 When install the part first install part A then light clamping by handle, after install part B, then light clamping by handle, finally, the clamping power is equal on 2 parts.
13-2 When loosen parts first loosen part B, after part A.
- 14. Large workpiece (Square, Rectangular, Round surface) clamping.**
14-1 Remove stationary jaw for clamping large part. (fig.22. P62)
14-2 Jaws clamp simultaneously with equal clamping power
- 15. MC 2 in 1 anglock vise, Most suitable for machine center**
15-1 Rigid material ductile iron FCD600kgs/mm² or 80,000psi tensile strength.
15-2 Vise bed flame hardened to HRC45° and up take up wear and maintain accuracy for long.
- 16. Movable jaws lock down mechanism eliminates lift of parts.**
16-1 Both movable jaws is featured with lock down mechanism eliminates the lift of parts
16-2 Vise leadscrew is covered with chip way cover to prevent chips for falling into the vise inner bottom and damage the leadscrew
16-3 Jaw plates position set up as shown of fig. 21-26 (P62)

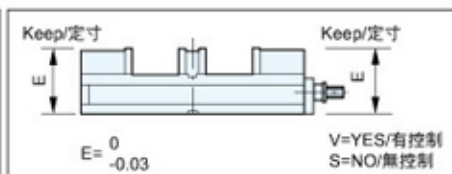
- 11. 雙夾緊機構，單側可隨開口範圍自由調整，可做兩只大小不同工件同時加工。**
11-1 雙側可自由調整夾持範圍從0到最大開口，夾持範圍如第62頁21圖所示。
11-2 如何調整雙側開口範圍大小，如第62頁31-34圖中所示，即可完成夾持前準備。
11-3 本雙夾緊角固虎鉗，內採雙螺桿機構設計，夾緊力強而有力，且穩定性高。
- 12. 兩側工作誤差可自動消除，且兩側夾緊力皆保持相同。**
12-1 雙側工件夾持範圍(AB)如第62頁31-34圖示方法調整好之後，假如很多工件要加工，工件尺寸難免有誤差在 $\pm 2\text{mm}$ 以內，皆可自動消除，且兩側夾持力皆相同。如兩側工件誤差超過 $\pm 2\text{mm}$ ，必須重新調整，如31-34圖示。
- 13. 夾持工件，會自動先夾A之後再夾B；鬆退工件，會自動先退B之後再退A。**
13-1 夾持工件-先將A工件就定位，輕輕夾住，然後再將B工件就定位，並將B工件輕輕夾住，再將把手施以重力，A、B兩工件會平均且重複被夾緊。
13-2 鬆退工件-鬆退把手時，B側鉗口會先退，並將B工件取出，再退A工件。
- 14. 方塊體，圓柱體工件，可以做大範圍夾緊。**
14-1 當工件稍大，且雙側開口範圍無法容許，必須將中間虎口拆除，可以放入一件較大工件夾持，如22圖示。
14-2 此一夾持方式，兩側夾持力大小均一致。
- 15. 角固式肯倍得式雙夾緊精密機械虎鉗，適合立、臥式綜合切削加工機使用。**
15-1 強而有力材質-虎鉗本台使用球狀石墨化鑄鐵(FCD600~60kgs/mm²)或(80,000psi)
15-2 虎鉗本台均經硬化處理，HRC45°以上，可保持長久耐磨性及精度。抗張力強，耐磨性高，不易變形。
- 16. 雙側活動鎖設計有角固下鎖機構，可防止工件上浮。**
16-1 雙側活動鎖皆設計有角固下鎖機構，可防止工件上浮且兩側力量相等。
16-2 虎鉗內部設計有防屑裝置，可防止鐵屑侵入虎鉗內部及螺桿。
16-3 鉗口配置方式參照21.26圖



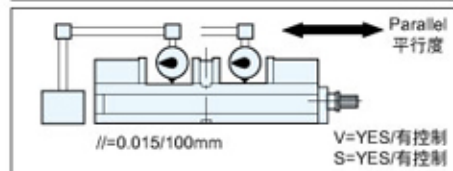
V=YES/有控制
S=NO/無控制



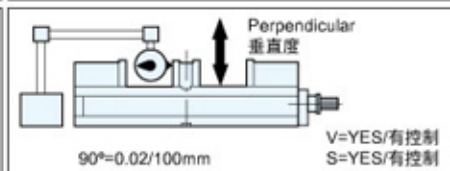
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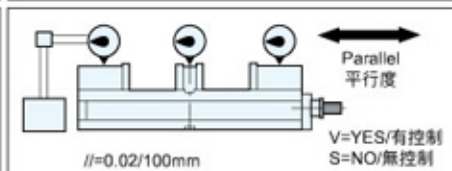
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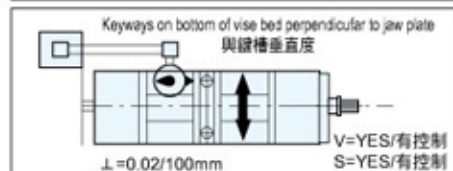
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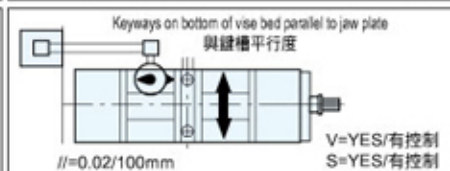
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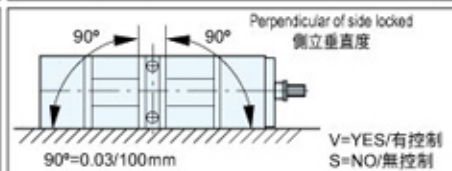
V=YES/有控制
S=NO/無控制



V=YES/有控制
S=YES/有控制



V=YES/有控制
S=YES/有控制

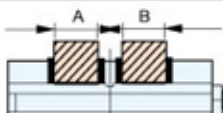


V=YES/有控制
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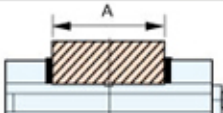
MC 2 IN 1 DOUBLE LOCK & ANGLOCK MACHINE VISE

MC 雙夾緊 / 角固式精密機械虎鉗



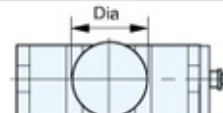
21

Model / 型號	A	B
DAV-100V/S	0-75mm	0-75mm
DAV-130V/S	0-85mm	0-85mm
DAV-160V/S	0-100mm	0-100mm
DAV-200V/S	0-150mm	0-150mm



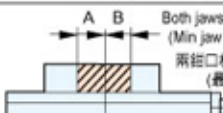
22

Model / 型號	A=MAX.	A=MIN.
DAV-100V/S	210mm	80mm
DAV-130V/S	230mm	60mm
DAV-160V/S	260mm	60mm
DAV-200V/S	370mm	90mm



23

Model / 型號	Dia=MAX.	Dia=MIN.
DAV-100V/S	180mm	60mm
DAV-130V/S	220mm	60mm
DAV-160V/S	230mm	60mm
DAV-200V/S	340mm	80mm



24

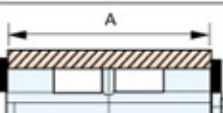
Both jaws keep vise center (Min jaw plate thickness)
兩鉗口相互接觸到中心 (最小鉗口厚)

Model / 型號	A=MIN. Thickness	B=MIN. Thickness
DAV-100V/S	48mm	48mm
DAV-130V/S	48mm	48mm
DAV-160V/S	48mm	48mm
DAV-200V/S	63mm	63mm



25

Model / 型號	A=MAX.	B=MIN.
DAV-100V/S	80-170mm	80-170mm
DAV-130V/S	90-190mm	90-190mm
DAV-160V/S	100-220mm	100-220mm
DAV-200V/S	110-280mm	110-280mm



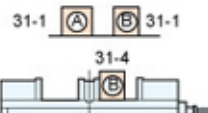
26

Model / 型號	A=MAX.	A=MIN.
DAV-100V/S	400mm	260mm
DAV-130V/S	440mm	280mm
DAV-160V/S	490mm	300mm
DAV-200V/S	630mm	340mm

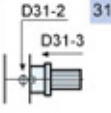
• When work in self-centering condition (fig.22&23), Optional jaw plates (2 pcs) are available for size of work-piece smaller than 60mm or 80mm.(P81,82)

• Optional fixed plate is available for converting the vise to be a standard vise. (See fig.24.)

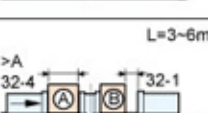
• **OPTIONAL METHODS: FIGURES FOR SHOWING THE PROCEDURES OF CLAMPING WORKPIECES.**



31-1



31-2



31-3



31-4

31-1 If part a and b are different in sizes.
31-2 First of all make sure the set screw (D) is loosen stated.
31-3 Second make sure the clutch (E) is engagement stated.
31-4 Rotate handle till the part b can fit in.

32-1 Adjusting the gap between movable jaw and part (B) is 3-6mm.
32-2 Then lock the set screw (D) but don't lock too tight.
32-3 Then pull out the clutch to non engagement stated.
32-4 Finally rotate handle till the part A can fit in. But part B the gap always keep 3-6mm can't move it.

33-1 The set screw (D) keep lock and clutch (E) keep non engagement stated.
33-2 Rotate handle by clockwise till the movable jaw and part A is touch.
33-3 Then rotate handle by under clockwise till near next slot also push clutch to engagement stated.
33-4 Finally loosen set screw (D).

34-1 As procedurs 31-33 already finished adjusting part A and B size then lock set screw (F) on clutch (E).
34-2 Rotate handle by clockwise first the part A will be by clamping, then will be move the part B gap (L=3-6mm) till the gap between movable jaw and part B is by clamping.
34-3 By heavy power on handle by clockwise the part A, B will be heavy power capacity by clamped. (The part A and B is same power capacity by designed).
34-1 依以上步驟即完成A,B兩工件開口範圍之調整F鎖緊。

REMARKS:
1. When clamping other size, please follow the same procedurs as stated below.
2. When install the part first part A after part B.
3. When take out the part, first part B after A.

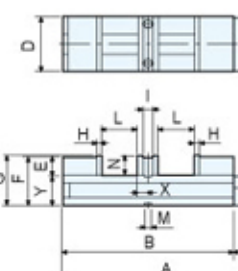
注意:
當A,B兩工件大小不同放入虎鉗開口範圍內, 請依下列31-34步驟依序完成兩側開口範圍調整。
1. 當A,B兩側開口範圍已依上步驟調整好之後, 當A,B工件單一側誤差超過3mm以上, 必須上列步驟重新調整。
2. 夾緊工件時, 先放入A工件, 並將活動鉗口輕夾住A工件, 然後再放入B工件夾緊。
3. 取出工件時, 先取出B工件, 並將B工件取出, 然後再取出A工件。

Standard Accessories

1. Handle x 1pc
2. Guide key x 2pcs, M6 x 10L x 2pcs
3. Vise locked block x 4pcs
4. Chip cover x 1 set

標準附件

1. 把手一組
2. 導正鍵 x 2只, (M6 x 10L) 螺絲x2只
3. 虎鉗固定塊x4只
4. 虎鉗防屑裝置



Unit: mm

Order NO. 訂購編號	Model 型號	A	B	C	D	E	F	G	H	I	L Each Opening / 每側開口		M
07190100	DAV-100V	495	410	85	101	45	125	128	15	30	0-75	0-75	16
07195100	DAV-100S	495	410	85	101	45	125	128	15	30	0-75	0-75	16
07190130	DAV-130V	535	450	85	131	52	137	140	15	30	0-85	0-85	18
07195130	DAV-130S	535	450	85	131	52	137	140	15	30	0-85	0-85	18
07190160	DAV-160V	585	500	85	161	55	145	148	15	30	0-100	0-100	18
07195160	DAV-160S	585	500	85	161	55	145	148	15	30	0-100	0-100	18
07190200	DAV-200V	727	642	85	201	60	155	158	18	40	0-150	0-150	18
07195200	DAV-200S	727	642	85	201	60	155	158	18	40	0-150	0-150	18

Order NO. 訂購編號	Model 型號	N	X	X= 0 -0.02	Y	Y= 0 -0.02	N.W. 淨重	G.W. 毛重	Shipment Size 裝箱尺寸	Remark 備註
07190100	DAV-100V	48	30	YES	80	YES	27kg	29kg	600x220x185	
07195100	DAV-100S	48	30	NO	80	NO	27kg	29kg	600x220x185	
07190130	DAV-130V	55	30	YES	85	YES	39kg	41kg	665x250x205	
07195130	DAV-130S	55	30	NO	85	NO	39kg	41kg	665x250x205	
07190160	DAV-160V	58	30	YES	90	YES	56kg	59kg	760x280x215	
07195160	DAV-160S	58	30	NO	90	NO	56kg	59kg	760x280x215	
07190200	DAV-200V	63	38	YES	95	YES	89kg	92kg	860x320x225	
07195200	DAV-200S	63	38	NO	95	NO	89kg	92kg	860x320x225	



Best aid
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ISO-9001:2008

DBV

MOST SUITABLE FOR VERTICAL MACHINE CENTER, MILLING MACHINE

MC · Self-Centering

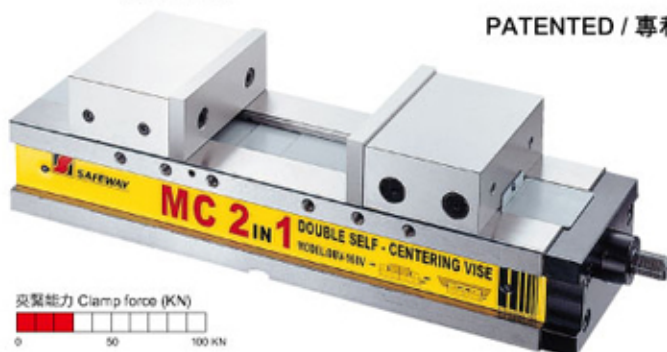
最適立式綜合切削加工機，銑床使用

肯倍得 / 求心型

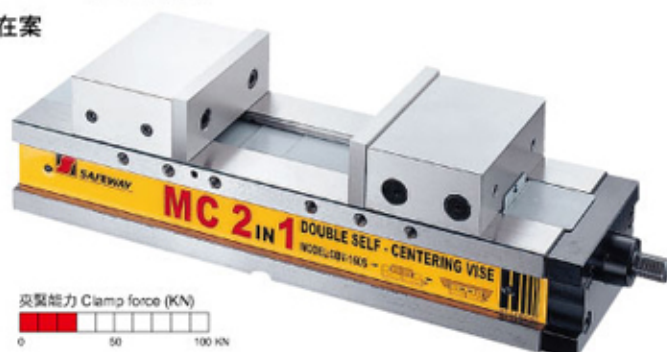
MODEL • 07196100 DBV-100V • 07196160 DBV-160V
• 07196130 DBV-130V • 07196200 DBV-200V
(定寸規格)

• 07198100 DBV-100S • 07198160 DBV-160S
• 07198130 DBV-130S • 07198200 DBV-200S
(不定寸規格)

PATENTED / 專利在案



夾緊能力 Clamp force (KN)
0 50 100 KN



夾緊能力 Clamp force (KN)
0 50 100 KN

FEATURES :

- Holding work-piece firmly in single and multiple vises setup.
- Clamping system: Lead screw.
- Double self-centering function.
- Each self-centering clearance within $\pm 0.010\text{mm}$.
- Down thrust mechanism eliminates jaw lifting and work-piece tilting.
- Rigid material-ductile iron FCD600 JIS (Equal to GGG-60) with 60kgs/mm² or 80,000psi tensile strength.
- Vise bed flange hardened to HRC45° and up takes up wear and maintain accuracy for long.
- Movable flange hardened to HRC55° and up takes up wear and maintain accuracy for long.
- Chip covers adopt on each vise for preventing chips falling into lead-screw and inside of vise.

特性：

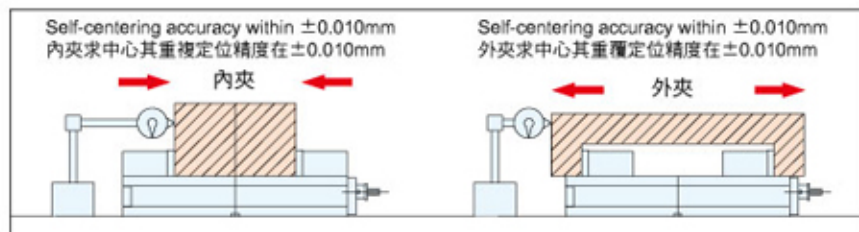
- MC角固式雙向求中心機械精密虎鉗，適用立、臥式綜合切削加工機做精密切削加工。
- 夾緊系統：螺桿夾緊。
- 本虎鉗設計有雙向求中心功能，亦即可向內求中心夾持，亦可向外求中心夾持，一台虎鉗同時具備兩種功能。
- 雙向求中心(內夾·外夾)其重複定位精度皆保持在 $\pm 0.010\text{mm}$ 以內。
- 角固式設計可產生角固下鎖之力，可消除虎口板上浮和工件傾斜。
- 強而有力材質~虎鉗本台使用高抗張拉力球狀石墨鑄鐵(FCD600~60kgs/mm²) (80,000psi)抗張力強，不易變形。
- 虎鉗本台滑動面均經硬化熱處理HRC45°以上，可保持長久耐磨性及精度。
- 活動顎採用全鋼製並經硬化熱處理HRC55°以上，可確保其耐磨性及精度。
- 虎鉗防屑設計，以防止加工鐵屑傾入傳動螺桿及虎鉗內部，不易清除。



Work-piece lifting accuracy within 0.010 mm
內夾求中心夾持工件上浮量在0.010以內



Work-piece lifting accuracy within 0.010 mm
外夾求中心夾持工件上浮量在0.010以內



THE EXCELLENT CLEARANCE CONTROL / 優良的精度控制，最值得您信賴



MC 2 IN 1 DOUBLE SELF-CENTERING VISE

MC 角固式 / 雙向求中心精密機械虎鉗 (內夾 / 外夾)

Model / 型號	A=MAX	A=MIN.
DBV-100V/S	210mm	80mm
DBV-130V/S	230mm	60mm
DBV-160V/S	260mm	60mm
DBV-200V/S	370mm	90mm

Model / 型號	A=MAX	A=MIN.
DBV-100V/S	400mm	270mm
DBV-130V/S	440mm	270mm
DBV-160V/S	490mm	290mm
DBV-200V/S	630mm	350mm

Model / 型號	Dia=MAX	Dia=MIN.
DBV-100V/S	410mm	270mm
DBV-130V/S	450mm	270mm
DBV-160V/S	500mm	290mm
DBV-200V/S	640mm	350mm

Both jaws keep vise center (Min jaw plate thickness)
兩鉗口相互接觸中心 (最小鉗口厚)

Model / 型號	A=MIN. Thickness	B=MIN. Thickness
DBV-100V/S	48mm	48mm
DBV-130V/S	48mm	48mm
DBV-160V/S	48mm	48mm
DBV-200V/S	63mm	63mm

Model / 型號	Dia=MAX	Dia=MIN.
DBV-100V/S	180mm	60mm
DBV-130V/S	220mm	60mm
DBV-160V/S	230mm	60mm
DBV-200V/S	340mm	80mm

• When work in self-centering condition (Fig 23), optional jaw plates (2 pcs) are available for size of work-piece smaller than 60mm or 80mm.

• 23 如欲夾小於60mm或80mm工件，必需另訂特殊加厚鉗口。

EXAMPLE / 臥式加工範例

Standard Accessories

1. Handle x 1 pc
2. Guide key x 2 pcs
M6 x 10L x 2 pcs
3. Chip cover x 1 set
4. Vise locked block x 4 pcs

標準附件

1. 把手一組
2. 導正鍵 x 2只
(M6 x 10L) 螺絲 x 2只
3. 虎鉗固定塊 x 4只

Optional Accessories

1. Special application jaw plates. (P81,82)

特殊附件

1. 特殊虎口 (P81,82)

Unit:mm

Order NO. 訂購編號	Model 型號	A	B	C	D	E	F	G	H	L 21	L 23	L1
07196100	DBV-100V	488	410	78	101	48	125	128	15	80~210	0~150	270~400
07198100	DBV-100S	488	410	78	101	48	125	128	15	80~210	0~150	270~400
07196130	DBV-130V	528	450	78	131	55	137	140	15	60~230	0~170	270~440
07198130	DBV-130S	528	450	78	131	55	137	140	15	60~230	0~170	270~440
07196160	DBV-160V	578	500	78	161	58	145	148	15	60~260	0~200	270~490
07198160	DBV-160S	578	500	78	161	58	145	148	15	60~260	0~200	270~490
07196200	DBV-200V	720	642	78	201	63	155	158	18	90~370	0~290	350~630
07198200	DBV-200S	720	642	78	201	63	155	158	18	90~370	0~290	350~630

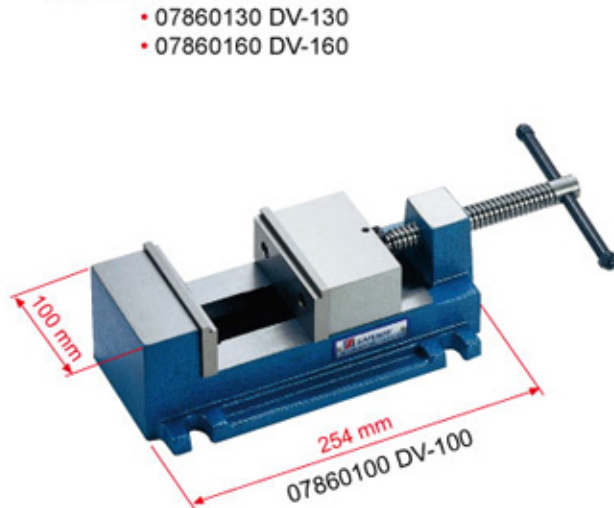
Order NO. 訂購編號	Model 型號	M	N	Y	Y=0 -0.02	N.W. 淨重	G.W. 毛重	Shipment Size 裝箱尺寸	Remark 備註
07196100	DBV-100V	16	19	80	YES	25kg	27kg	600x220x185	
07198100	DBV-100S	16	19	80	NO	25kg	27kg	600x220x185	
07196130	DBV-130V	18	19	85	YES	38kg	41kg	665x250x205	
07198130	DBV-130S	18	19	85	NO	38kg	41kg	665x250x205	
07196160	DBV-160V	18	19	90	YES	53kg	55kg	760x280x215	
07198160	DBV-160S	18	19	90	NO	53kg	55kg	760x280x215	
07196200	DBV-200V	18	19	95	YES	87kg	90kg	860x320x225	
07198200	DBV-200S	18	19	95	NO	87kg	90kg	860x320x225	



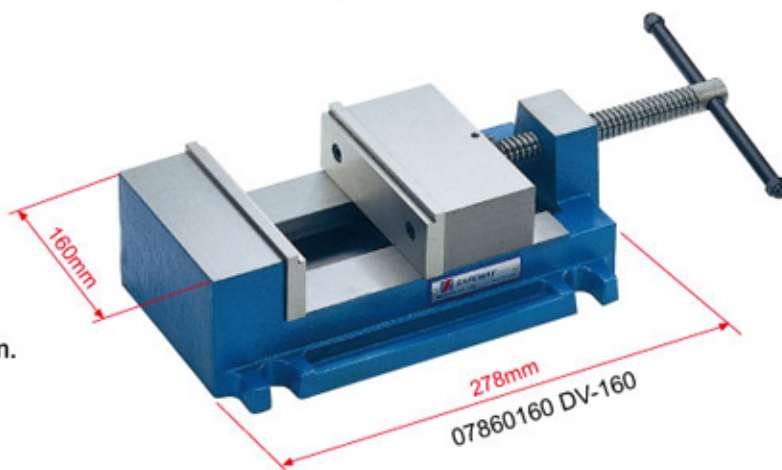
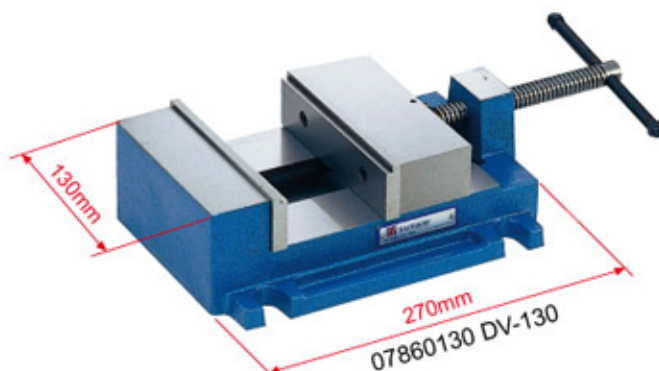
HEAVY DUTY HIGH PRECISION DRILL PRESS VISE WITH LOCK DOWN JAW MECHANISM
精密度 / 角固式 / 輕便虎鉗

Down Thrust / Light
角固式 / 輕便型

- MODEL • 07860100 DV-100
• 07860130 DV-130
• 07860160 DV-160



PATENTED / 專利在案



Surface of vise bed parallel to bottom of vise body within 0.03m/m

Jaw plate to sliding ways square within 0.03m/m.

虎鉗底面與滑動面平行度在0.03m/m以內

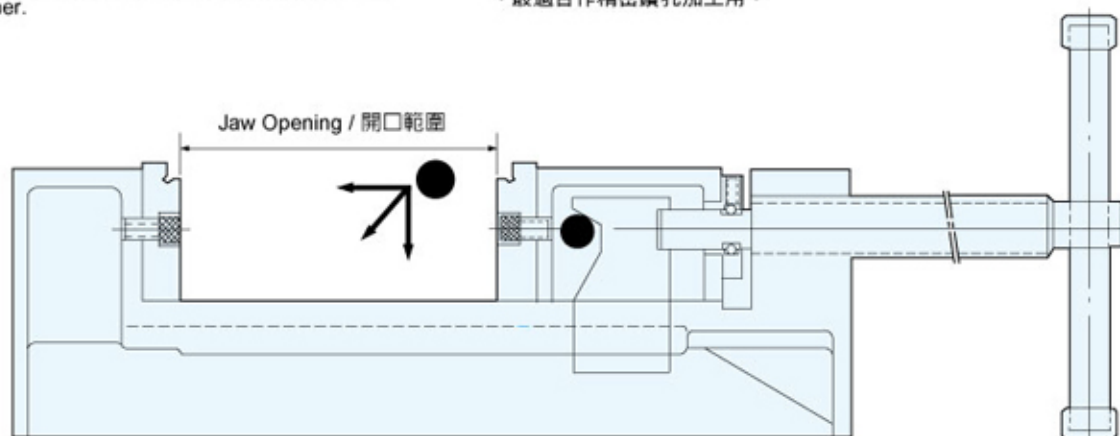
虎鉗底面與鉗口垂直度在0.03m/m以內

FEATURES :

- Lock down jaw mechanism, eliminates jaw lifting and work-piece titling.
- Clamping system: Lead screw.
- High tensile ductile iron. (FCD45)
- Vise bottom and sliding ways are precision grinding.
- Step jaw plates are hardened to HRC52° and precision ground.
- Precision lead screw supported by steel balls design for smoother.

特性：

- 角固式機械設計，可消除虎口上浮和工件傾斜。
- 夾緊系統：螺桿夾緊。
- 材質採用高強度球狀石墨鑄鐵FCD-45。
- 虎鉗底部及滑動面均採精密研磨。
- 虎口採階梯型設計，並硬化熱處理HRC52°且經精密研磨。
- 傳動螺桿支持點採軸承設計，使傳動螺桿更平順。
- 傳動螺桿採精密機械加工並倒角（非滾牙）。
- 最適合作精密鑽孔加工用。



Unit: mm

Order NO. 訂購編號	Model 型號	Jaw Width 鉗口寬度	Jaw Height 鉗口高度	Jaw Opening 開口範圍	N.W. 淨重	G.W. 毛重	Shipment Size 裝箱尺寸	Remark 備註
07860100	DV-100(4")	100	42	0~90 / 100	6.0kg	6.2kg	310x150x85	
07860130	DV-130(5")	130	44	0~100 / 110	8.2kg	8.4kg	327x188x94	
07860160	DV-160(6")	160	44	0~105 / 115	10.1kg	10.4kg	340x224x100	



MOST SUITABLE FOR MILLING MACHINE

最適合傳統銑床、精密加工使用

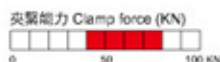
Down Thrust / Hydraulic

角固式 / 好用型

MODEL • 07800130 PHV-130 • 07800200 PHV-200
• 07800160 PHV-160 • 07800250 PHV-250



PATENTED / 專利在案
智慧財產權在案

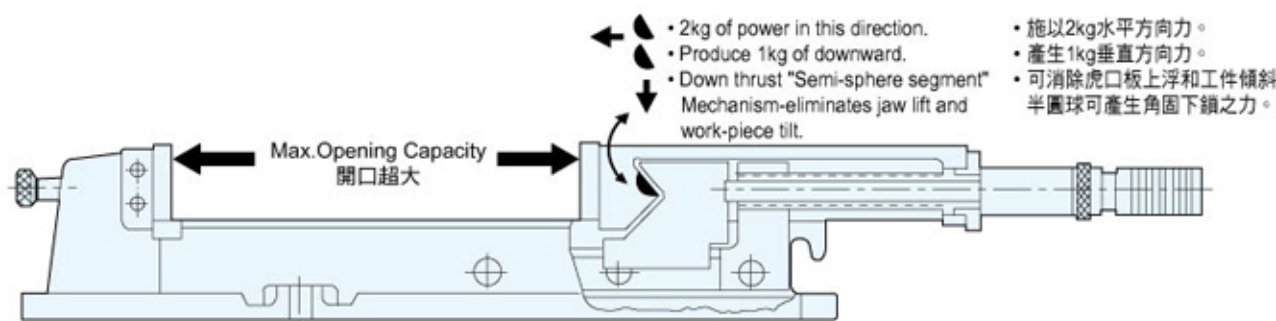


FEATURES :

- Mechanical / Hydraulic spindle without original clutch mechanism.
- Clamping system: Mechanical / Hydraulic.
- Large clamping & long guidance of movable jaw.
- Rapid clamping range adjustment.
- Rigid material-vise body of ductile iron FCD600 JIS (Equal to GGG-60) with 60kgs/mm² or 80,000psi tensile strength.
- Down thrust "Semi-sphere segment" Mechanism-eliminates jaw life and work tilt.
- Vise bed frame hardened to HRC45° and up takes up wear and maintain accuracy for long.

特性：

- 機械式 / 油壓式可單獨使用，亦可合併使用，油壓夾緊力大且穩定，適合重切削精密加工。
- 夾緊系統：機械式 / 油壓式。
- 角固式半圓球可產生角固下鎖之力~可消除虎口上浮和工件傾斜。
- 虎鉗滑動面及底面均經精密研磨。
- 強而有力材質~虎鉗本台使用球狀石墨化鑄鐵(FCD600~60kgs/mm²) (80,000psi) 抗張力強，耐磨性高，不易變形。
- 虎鉗滑動面均經硬化熱處理HRC45°以上，可保持長久耐磨性及精度。
- 對於特殊用途，可以接受同高度、垂直度、平行度在0.010mm以內之公差，但價格另議。
- 最適合銑床加工、模具業使用。



NO	TEST ITEM / 檢查事項	JIS grade 1. JIS 1級	Guaranteed 許可精度	1	5
1	Both jaw plate parallel 兩虎口板相互平行度	0.020 100mm	0.020 100mm		
2	Keyways on bottom of vise bed square to clamping surface of jaw plate. 虎鉗底部鍵槽與虎口板之直角度	0.020 100mm	0.015 100mm		
3	Keyways on bottom of vise bed parallel to clamping surface of jaw plate. 虎鉗底部鍵槽與虎口板之平行度	0.020 100mm	0.015 100mm		
4	Swivel base parallel 迴轉盤之平行度	0.020 100mm	0.015 100mm		
5	Surface of vise bed parallel to bottom of vise body. 虎鉗底部與滑動面之平行度	0.030 100mm	0.010 100mm		
6	Surface of vise bed parallel to bottom of vise body. 工件夾緊之平行度	0.050 100mm	0.020 100mm		
7	Clamping surface of jaw plate perpendicular to vise bed, the angle always being less than 90° 虎口之直角度	0.050 100mm	0.030 100mm		
8	Top of rectangular test block clamped tightly by jaws parallel to bottom of swivel base 工件夾緊後與迴轉盤之平行度	0.040 100mm	0.030 100mm		



LOCK-DOWN JAW MECHANICAL / HYDRAULIC MACHINE VISE

角固式 / 外藏式精密油壓虎鉗



Standard Accessories

1. Handle x 1 pc
2. Guide key x 2 pcs
M6 x 10L x 2 pcs

標準附件

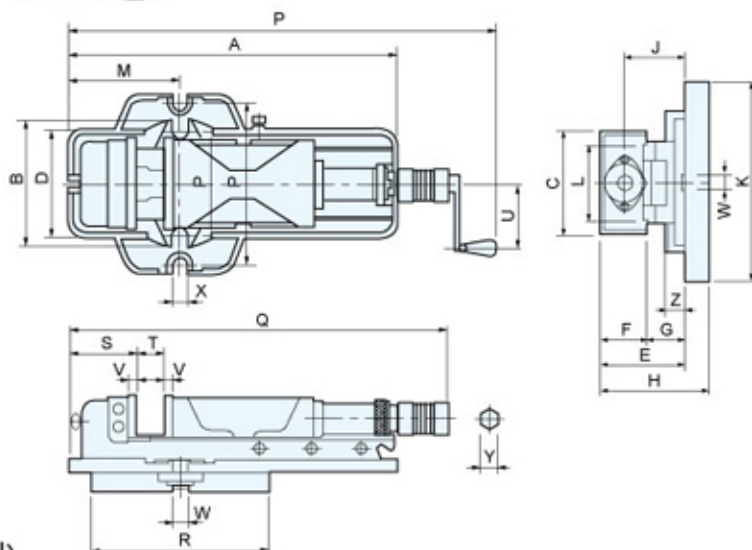
1. 把手一組
2. 導正鍵2只
螺絲 x 2只 (M6 x 10L)

Optional Accessories

1. Special application jaw plates.
(P81,82)
2. Swivel base (SB-cast iron)

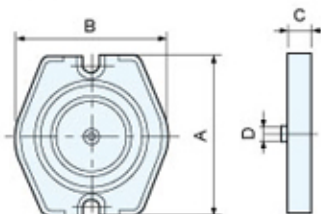
特殊附件

1. 特殊虎口 (P81,82)
2. 迴轉盤 (SB型鑄鐵)



SWIVEL BASE (CAST IRON) / 迴轉盤 (鑄鐵製)

- MODEL • 07804130 SB-130 • 07804200 SB-200
• 07804160 SB-160 • 07804250 SB-250



Standard Accessories

1. T-Bolts x 2 pcs
2. 5/8" Nuts x 2 pcs

標準附件

1. T型螺栓x2支
2. 5/8"丸型螺帽x2只

Unit:mm

Order NO. 訂購編號	SB	A	B	C	D	N.W. 淨重
07804130	130	290	260	34	16	9.0kg
07804160	160	340	320	39	16	15kg
07804200	200	400	360	46	18	23kg
07804250	250	460	420	50	18	32kg

Unit: mm

Order NO. 訂購編號	Model 型號	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
07800130	PHV-130	505	190	130	170	127	55	72	163	95	290	106	180	250	160	695 / 920
07800160	PHV-160	625	240	160	205	140	58	82	179	105	340	125	208	300	196	755 / 1055
07800200	PHV-200	700	280	200	240	163	63	100	205	125	400	165	265	360	240	830 / 1140
07800250	PHV-250	810	320	250	290	190	80	110	238	139	460	195	320	410	270	920 / 1260

Order NO. 訂購編號	Model 型號	Q	R	S	T	U	V	W	X	Y	Z	Jaw Opening Position I II III 行程開口
07800130	PHV-130	570 / 795	260	105	220	125	15	16	18	14	25	0-75 / 70-150 / 145-225
07800160	PHV-160	640 / 940	320	125	300	125	15	16	18	14	27	0-110 / 100-210 / 200-310
07800200	PHV-200	725 / 1035	365	150	300	125	18	18	22	14	36	0-110 / 100-210 / 200-310
07800250	PHV-250	815 / 1155	420	180	340	125	21	18	22	14	36	0-115 / 110-230 / 225-345

Order NO. 訂購編號	Model 型號	Max. Pressure 最大油壓夾緊力	Limit. Pressure 極限油壓夾緊力	N.W. / G.W. 淨重 / 毛重	Shipment Size 裝箱尺寸	Weight of vise with swivel base 附迴轉盤(淨重/毛重)	Vise with swivel base 附迴轉盤裝箱尺寸	Remark 備註
07800130	PHV-130	36KN(3528kgf)	41KN(4018kgf)	36kg / 38kg	645x260x185	46kg / 55kg	690x360x270	
07800160	PHV-160	41KN(4018kgf)	52KN(5096kgf)	56kg / 58kg	730x260x190	72kg / 82kg	750x430x290	
07800200	PHV-200	62KN(6076kgf)	72KN(7056kgf)	90kg / 102kg	860x380x280	117kg / 131kg	860x520x310	
07800250	PHV-250	72KN(7056kgf)	82KN(8036kgf)	140kg / 160kg	960x450x300	172kg / 200kg	900x560x350	

MOST SUITABLE FOR MASS PRODUCTION ON MACHINE CENTER

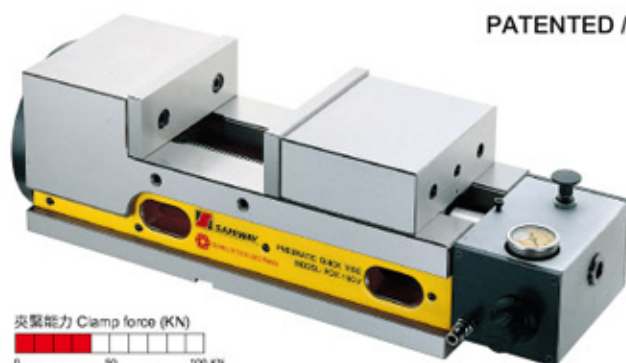
最適立式綜合切削加工機，銑床使用

MC · Air
肯倍得 / 快速型

MODEL • 07700100 PQV-100V • 07700160 PQV-160V
• 07700130 PQV-130V • 07700200 PQV-200V

• 07705100 PQV-100S • 07705160 PQV-160S
• 07705130 PQV-130S • 07705200 PQV-200S

PATENTED / 專利在案



夾緊能力 Clamp force (KN)
0 50 100 KN



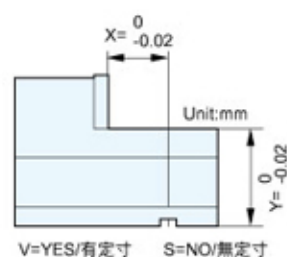
夾緊能力 Clamp force (KN)
0 50 100 KN

FEATURES :

- Robust construction of one piece casting of fixed jaw and vise bed.
- Clamping system: Air+Mechanical power.
- Rigid and high tensile casting of ductile iron FCD600 JIS (Equal to GGG-60) with 60kgs/mm² or 80,000psi tensile strength.
- Most suitable for mass production and to be used on machine centers, milling machines, drilling machines and special purpose machines.
- Most compact pneumatic mechanism design. No oil, just joint with the air supply will do.
- Most compact in total length of vise with Max. clamping capacity
- Safety locking mechanism for unexpected termination of air supply. After pneumatic clamping, the work piece will be clamped firmly even without the air supply.
- Easy and simple ON-OFF switch control for pneumatic operation. The optional electric control for automatic and FMS system is available.
- Safety protection Max. pneumatic clamping stroke is 4mm to prevent inserting operator's finger during clamping operation. (Stroke is 2mm best power capacity)
- Rapid ON-OFF only 1.5sec.
- Multiply pneumatic Quick Vise set up available with only one source of air supply. (Optional)
- Free adjusting of Max. pneumatic clamping pressure from 0~1,000kgf (4000) by air regulator, jaw opening 2mm is best clamping power capacity of workpiece.
- Vise bed flange hardened to HRC45° and up takes up wear and maintains accuracy for long.
- Down trust "semi-spherical segment" mechanism eliminates jaw lifting and work-piece.

特性：

- 倍力式空壓快速虎鉗適合MC立式綜合切削加工機，銑床/鑽床專用機等大量生產加工快速夾具。
- 夾緊系統：倍力機構+空壓。
- 倍力機構配合空壓快速，達到快速和大夾持力功能，且只需接上空壓源即可免用油推送，以防漏油之虞。
- 本虎鉗設計有安全止逆裝置，當空壓源突然停止供應時，夾持力永不鬆脫，安全性高。
- 操作簡單，只用手動開關控制虎鉗關閉，亦可搭配自動控制以達FMC無人化系統。
- 開閉範圍0~4m/m安全開閉距離，以免手指伸入開閉範圍，傷及手指(安全設計)。
- 開閉時間只需1.5秒，夾持範圍可從0~200mm自由調整(工件長度再加2mm為最佳夾持狀況)。
- 本虎鉗可搭配多台並列使用，也只需一個空壓源即可，簡單方便。
- 夾持力由0~4000kgf可用空壓調節閥自由調整(壓力大小如附表所示)。
- 強而有力材質-虎鉗本台使用球狀石墨鑄鐵(FCD600~60kgs/mm²) (80,000psi)抗張力強，耐磨性高，不易變形。
- 虎鉗本台滑動面均經硬化熱處理HRC45°以上，可保持長久耐磨性及精度。
- 角圓式半圓球可產生角固下鎖之力~可消除虎口板上浮和工件傾斜。
- 本虎鉗可側立使用，適合搭配專用機及立式加工用。



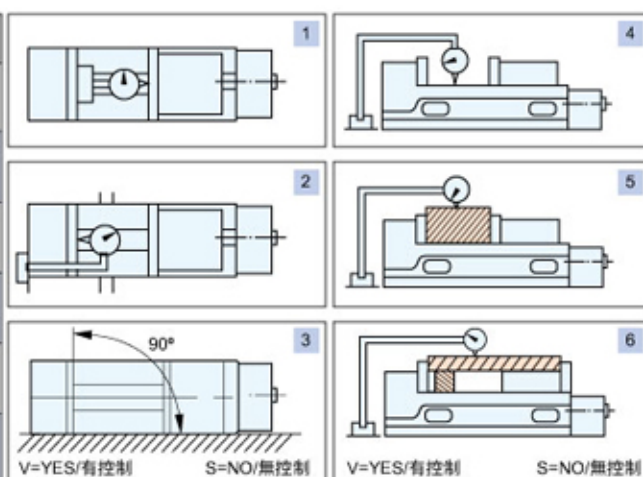
PQV-100V, 130V, 160V, 200V

X=0 Y=0
X=-0.02 Y=-0.02
Vise side-lock square within 0.010mm
虎鉗側立直角度0.010以內

PQV-100S, 130S, 160S, 200S

Vise side-lock square without control
虎鉗側立不控制精度

NO	TEST ITEM/檢查事項	JIS grade 1. JIS 1級	Guaranteed 許可精度
1	Both jaw plate parallel. 兩虎口板相互平行度	0.020 100mm	0.020 100mm
2	Keyways on bottom of vise bed square to clamping surface of jaw plate. 虎鉗底部鍵槽與虎口板之平行度	0.020 100mm	0.015 100mm
3	Vise side-lock on bottom to slide way square. 虎鉗側立與工作台之直角度	0.020 100mm	0.010 100mm
4	Surface of vise bed parallel to bottom of vise body. 虎鉗底部與滑動面之平行度	0.020 100mm	0.010 100mm
5	Top of rectangular test block clamped tightly by jaw parallel to bottom of vise body 工作夾緊後之平行度	0.030 100mm	0.020 100mm
6	Max. opening test block parallel to bottom of vise body. 虎鉗大開口工件之平行度	0.050 100mm	0.030 100mm





MC PNEUMATIC QUICK VISE

MC 角固式 / 倍力式空壓快速精密虎鉗

Standard Accessories

1. Handle x 1 pc
2. Guide key x 2 pcs
M6 x 10L x 2 pcs
3. Vise locked block x 4 pcs

Optional Accessories

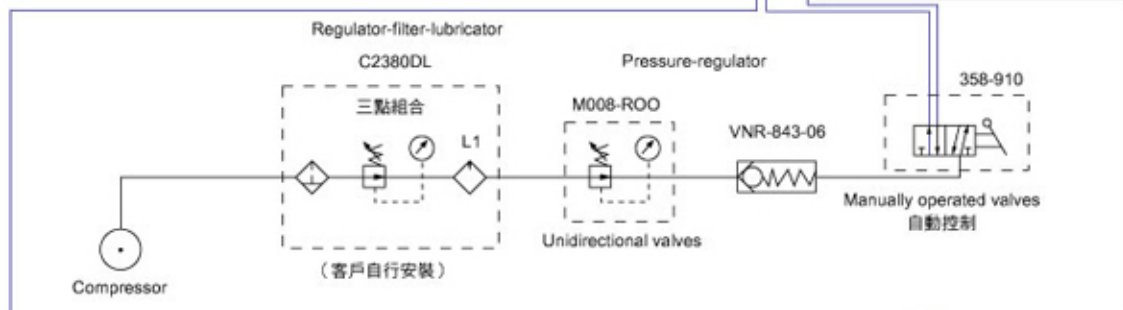
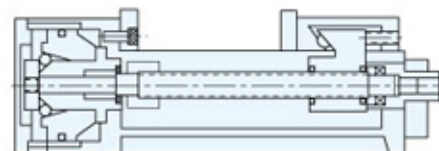
1. Special application jaw plates. (P81,82)

標準附件

1. 把手1組
2. 導正鍵2只
(M6 x 10L) 螺絲 x 2支
3. 虎鉗固定塊 x 4只

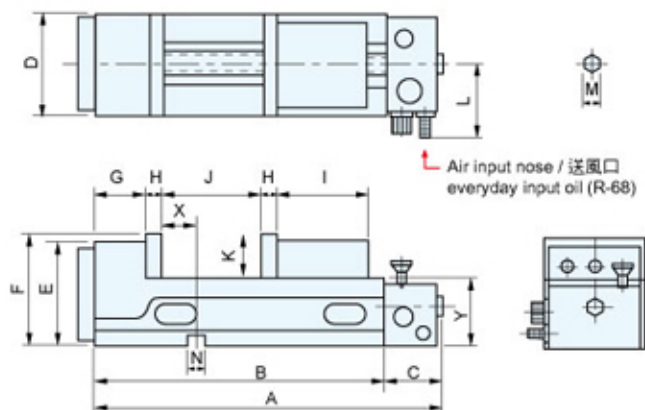
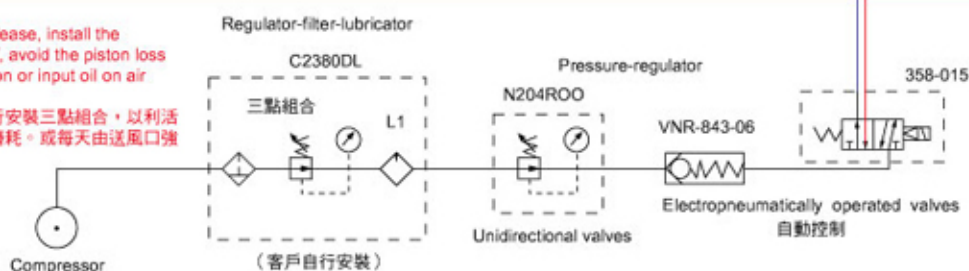
特殊附件

1. 特殊虎口 (P81,82)

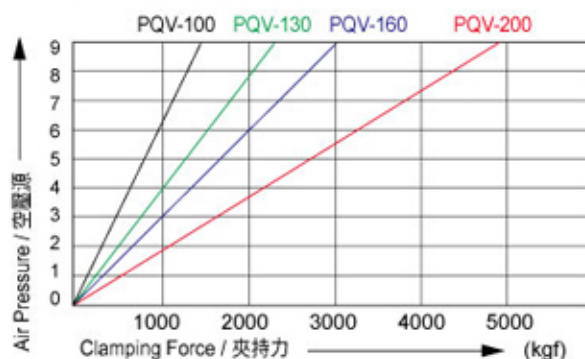


★ CAUTION/注意：

- When you operate vise before, please, install the regulator- filter-lubricator yourself, avoid the piston loss lubrication and take up wear piston or input oil on air input nose. (#R-68)
- 使用此快速虎鉗前，客戶必須自行安裝三點組合，以利活塞潤滑，以免活塞失油產生加速磨耗。或每天由送風口強制給油。(R-68機油)



空壓源與夾緊力示意圖



Order NO. 訂購編號	Model 型號	A	B	C	D	E	F	G	H	I	J	K	L	M	N	X
07700100	PQR-100V	442	340	102	101	130	133	96	15	105	0~105	48	95	14	16	45
07705100	PQR-100S	442	340	102	101	130	133	96	15	105	0~105	48	95	14	16	45
07700130	PQR-130V	507	405	102	131	152	155	100	15	115	0~140	55	95	14	18	65
07705130	PQR-130S	507	405	102	131	152	155	100	15	115	0~140	55	95	14	18	65
07700160	PQR-160V	534	432	102	161	160	163	115	15	130	0~150	58	105	14	18	65
07705160	PQR-160S	534	432	102	161	160	163	115	15	130	0~150	58	105	14	18	65
07700200	PQR-200V	627	525	102	201	185	188	125	18	150	0~200	63	105	14	18	82
07705200	PQR-200S	627	525	102	201	185	188	125	18	150	0~200	63	105	14	18	82

Order NO. 訂購編號	Model 型號	X= 0 -0.02	Y	Y= 0 -0.02	Power 夾緊力7kgf	Air Pressure 空壓源壓力	Stroke 行程	N.W. 淨重	G.W. 毛重	Shipment Size 裝箱尺寸	Remark 備註
07700100	PQR-100V	YES	85	YES	11KN(1078kgf)	1.5~7.0kg/cm²	0~3m/m	27kg	29kg	600x220x185	
07705100	PQR-100S	NO	85	NO	11KN(1078kgf)	1.5~7.0kg/cm²	0~3m/m	27kg	29kg	600x220x185	
07700130	PQR-130V	YES	100	YES	16KN(1568kgf)	1.5~7.0kg/cm²	0~3m/m	40kg	42kg	665x250x205	
07705130	PQR-130S	NO	100	NO	16KN(1568kgf)	1.5~7.0kg/cm²	0~3m/m	40kg	42kg	665x250x205	
07700160	PQR-160V	YES	105	YES	21KN(2058kgf)	1.5~7.0kg/cm²	0~4m/m	52kg	55kg	760x280x215	
07705160	PQR-160S	NO	105	NO	21KN(2058kgf)	1.5~7.0kg/cm²	0~4m/m	52kg	55kg	760x280x215	
07700200	PQR-200V	YES	125	YES	41KN(4018kgf)	1.5~7.0kg/cm²	0~4m/m	83kg	86kg	860x320x225	
07705200	PQR-200S	NO	125	NO	41KN(4018kgf)	1.5~7.0kg/cm²	0~4m/m	83kg	86kg	860x320x225	



DRILL GRINDING MACHINE (SINGLE WHEEL / TWIN WHEEL)

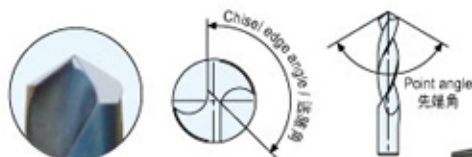
鑽頭研磨機(單砂輪 / 雙砂輪)

MODEL • 078201300 SA-1300-110V • 078221300 SA-1300-220V
• 078272000 SA-2000-110V • 078282000 SA-2000-220V
• 078242500 SA-2500-110V • 078262500 SA-2500-220V

MODEL • 078201302 SA-1302-110V • 078221302 SA-1302-220V
• 078272002 SA-2002-110V • 078282002 SA-2002-220V
• 078242502 SA-2502-110V • 078262502 SA-2502-220V



SA-1300 (Ø3~Ø13)
(Ø2 特別附件)



Easy
簡單

Accurate
精確

Fast
快速



SA-1302 (Ø3~Ø13)
(Ø2 特別附件)



SA-2000 (Ø3~Ø20)
(Ø2 特別附件)



SA-2002 (Ø3~Ø20)
(Ø2 特別附件)



SA-2500 (Ø13~Ø26)
(Ø27~Ø30 特別附件)



SA-2502 (Ø13~Ø26)
(Ø27~Ø30 特別附件)

Unit: mm

Order NO. 訂購編號	Model 型號	Dia. Capacity 直徑範圍	Angle Capacity 角度範圍	Power / 電源 (Single / 單相)	N.W. 淨重	G.W. 毛重	Fuse 保險絲 (標準型)	Wheel 鑽石砂輪	Collet 筒夾	Dimension 外型尺寸	Remark 備註
078201300	SA-1300	Ø3~13mm (Ø2 optional)	90°~144°(Ø6~13)	AC100~110V 50~60Hz	10kg	11kg	6A	CBN#200	ER-20	320x220x200	
078221300			118°~135°(Ø2~6)	AC220~240V 50~60Hz			3A				
078272000			90°~144°(Ø6~20)	AC100~110V 50~60Hz			8A				
078282000	SA-2000	Ø3~20mm (Ø2 optional)	118°~135°(Ø2~6)	AC220~240V 50~60Hz	16kg	17kg	4A	CBN#200	ER-25	415x240x220	
078242500			90°~144°(Ø13~26)	AC100~110V 50~60Hz			8A				
078262500			118°~135°(Ø27~30)	AC220~240V 50~60Hz			4A				
078201302	SA-1302	Ø3~13mm (Ø2 optional)	90°~144°(Ø6~13)	AC100~110V 50~60Hz	12kg	13kg	6A	CBN #200 鑽石砂輪400	ER-20	350x250x220	
078221302			118°~135°(Ø2~6)	AC220~240V 50~60Hz			3A				
078272002			90°~144°(Ø6~20)	AC100~110V 50~60Hz			8A				
078282002	SA-2002	Ø3~20mm (Ø2 optional)	118°~135°(Ø2~6)	AC220~240V 50~60Hz	18kg	19kg	4A	CBN #200 鑽石砂輪400	ER-25	360x280x230	
078242502			90°~144°(Ø13~26)	AC100~110V 50~60Hz			8A				
078262502			118°~135°(Ø27~30)	AC220~240V 50~60Hz			4A				



DRILL GRINDING MACHINE (SINGLE WHEEL / TWIN WHEEL)

鑽頭研磨機(單砂輪 / 雙砂輪)

FEATURES :

- Two wheels build in one machine. (Twin wheel), One side (CBN wheel) is suitable for HSS, The other side (Diamond wheel) is suitable for carbide drill.
- Easy operation, Precision grinding and cost saving.
- Hand held for easy movement and can operate inside and outside of the room.
- Use diamond wheel for long lasting service life and precise grinding angle.
- Built-in collet bracket for easy management collets.

特性：

- 一台機械同時裝置有兩只砂輪，一只為CBN砂輪，可用於高速鋼(HSS)鑽頭，一只為鑽石砂輪，可用於碳化鎢鑽頭，免除常換砂輪的困擾。
- 操作簡單，研磨精確，經濟實惠。
- 手提式設計，攜帶方便，室內、室外均可使用。
- 採用鑽石砂輪設計，砂輪壽命極長，研磨角度精確。
- 隱藏式筒夾盒設計，方便管理筒夾。
- 採用高效率AC馬達，頻率穩定，壽命佳。



Standard Accessories

- Collets :
SA-1300, 1302: ER-20 Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10, Ø11, Ø12, Ø13 x 11pcs
SA-2000, 2002: ER-25 Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10, Ø11, Ø12, Ø13, Ø14, Ø15, Ø16, Ø17, Ø18, Ø19, Ø20 x 18pcs
SA-2500, 2502: ER-40 Ø13, Ø14, Ø15, Ø16, Ø17, Ø18, Ø19, Ø20, Ø21, Ø22, Ø23, Ø24, Ø25, Ø26 x 14pcs
- Wheel :
CBN #200 x 1pc (SA-1300, SA-2000) (for HSS drill)
CBN #140 x 1pc (SA-2500) (for HSS drill)
CBN #200 x 1pc (for HSS drill), Diamond wheel #400 x 1pc (for Carbide drill) (SA-1302, SA-2002)
CBN #140 x 1pc (for HSS drill), Diamond wheel #300 x 1pc (for Carbide drill) (SA-2502)
- 4 mm Hex. wrench x 1pc

標準附件

- 筒夾：
SA-1300, 1302: ER-20 Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10, Ø11, Ø12, Ø13 x 11pcs
SA-2000, 2002: ER-25 Ø3, Ø4, Ø5, Ø6, Ø7, Ø8, Ø9, Ø10, Ø11, Ø12, Ø13, Ø14, Ø15, Ø16, Ø17, Ø18, Ø19, Ø20 x 18pcs
SA-2500, 2502: ER-40 Ø13, Ø14, Ø15, Ø16, Ø17, Ø18, Ø19, Ø20, Ø21, Ø22, Ø23, Ø24, Ø25, Ø26 x 14pcs
- 砂輪：
CBN #200 x 1pc (SA-1300, SA-2000) (HSS鑽頭用)
CBN #140 x 1pc (SA-2500) (HSS鑽頭用)
CBN #200 x 1pc (HSS鑽頭用)，
鑽石砂輪 #400 x 1pc (碳化鎢鑽頭用) (SA-1302, SA-2002)
CBN #140 x 1pc (HSS鑽頭用)，
鑽石砂輪 #300 x 1pc (碳化鎢鑽頭用) (SA-2502)
- 4 mm 六角扳手 x 1pc

Optional Accessories

- Collets :
SA-1300, 1302: ER-20 Ø3.5, Ø4.5, Ø5.5, Ø6.5, Ø7.5, Ø8.5, Ø9.5, Ø10.5, Ø11.5, Ø12.5 x 10pcs
SA-2000, 2002: ER-25 Ø3.5, Ø4.5, Ø5.5, Ø6.5, Ø7.5, Ø8.5, Ø9.5, Ø10.5, Ø11.5, Ø12.5, Ø13.5, Ø14.5, Ø15.5, Ø16.5, Ø17.5, Ø18.5, Ø19.5 x 17pcs
SA-2500, 2502: ER-40 Ø13.5, Ø14.5, Ø15.5, Ø16.5, Ø17.5, Ø18.5, Ø19.5, Ø20.5, Ø21.5, Ø22.5, Ø23.5, Ø24.5, Ø25.5 x 13pcs (Ø27, Ø28, Ø29, Ø30)
- Wheel : (Diamond For Carbide drill)
Diamond wheel #400 x 1pc (SA-1300, SA-2000)
Diamond wheel #300 x 1pc (SA-2500)

特殊附件

- 筒夾：
SA-1300, 1302: ER-20 Ø3.5, Ø4.5, Ø5.5, Ø6.5, Ø7.5, Ø8.5, Ø9.5, Ø10.5, Ø11.5, Ø12.5 x 10pcs
SA-2000, 2002: ER-25 Ø3.5, Ø4.5, Ø5.5, Ø6.5, Ø7.5, Ø8.5, Ø9.5, Ø10.5, Ø11.5, Ø12.5, Ø13.5, Ø14.5, Ø15.5, Ø16.5, Ø17.5, Ø18.5, Ø19.5 x 17pcs
SA-2500, 2502: ER-40 Ø13.5, Ø14.5, Ø15.5, Ø16.5, Ø17.5, Ø18.5, Ø19.5, Ø20.5, Ø21.5, Ø22.5, Ø23.5, Ø24.5, Ø25.5 x 13pcs (Ø27, Ø28, Ø29, Ø30)
- 砂輪：(適合碳化鎢鑽頭使用)
鑽石砂輪 #400 x 1pc (SA-1300, SA-2000)
鑽石砂輪 #300 x 1pc (SA-2500)



SRT

NC Rotary Table
NC 四軸分度盤

170, 217

256, 322

High rigidity / 高鋼性

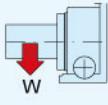
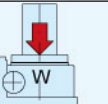
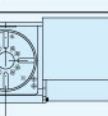
High precision / 高精度

High clamping torque / 高扭力

Specifications / 規格表



SRT-256

Order No.	訂購編號	30000170	30000217	30000256	30000322
Model	型號	SRT-170	SRT-217	SRT-256	SRT-322
Table diameter	面盤直徑	Ø 170	Ø 202	Ø 256	Ø 322
Center height	中心高度	125	140	180	225
Center hole 主軸孔徑	Table nose dia. / 主軸鼻端孔	Ø 50H7	Ø 75H7	Ø 105H7	Ø 135H7
	Through hole / 主軸貫穿孔	Ø 40	Ø 52	Ø 78	Ø 110
Table T-slots width	面盤T槽	12H8	12H8	12H8	14H8
Guide block width	導正鍵	18h7	18h7	18h7	18h7
Servo motor 驅動馬達	FANUC	iF2 / 5000	iF4 / 4000	iF4 / 4000 iF8 / 3000	iF8 / 3000 iF12 / 3000
	MITSUBISHI	HF75 / HF74	HF104 / HF103	HF104 / HF103	HF204 / HF203
Gear ratio	齒輪減速比	1/72	1/90	1/90	1/120
Table max. rpm (Motor rpm:3000min) ⁻¹	面盤最高轉速	41.6	33.3	33.3	25
Clamping torque (N.m) (pneumatic 0.5MPa/hydraulic3MPa)	煞車扭力	450	600	1100	2600
Clamping system	煞車系統(空油壓/油壓)	Air-hydraulic / Hydraulic	Air-hydraulic / Hydraulic	Air-hydraulic / Hydraulic	Air-hydraulic / Hydraulic
Indexing accuracy (arc.sec)	割出精度	20 sec	20 sec	20 sec	20 sec
Repeatability accuracy (arc.sec)	重覆精度	4 sec	4 sec	4 sec	4 sec
Net weight (kg)	淨重	54	80	123	204
Allowable work weight 容許工件重量	Vertical setting 垂直負荷 () with Tailstock 附尾座 	Kg 80 (160)	Kg 100 (200)	Kg 125 (250)	Kg 180 (360)
	Horizontal setting 水平負荷 	Kg 170	Kg 200	Kg 250	Kg 350
Allowable load (When table is clamped) 容許煞車 扭力負荷	F 	kN 10	kN 17	kN 21	kN 26
	F x L 	N-m 450	N-m 600	N-m 1100	N-m 2600
	F x L 	N-m 600	N-m 1100	N-m 1600	N-m 2700
Driving torque 容許切削扭力	T 	N-m 240	N-m 310	N-m 730	N-m 1000

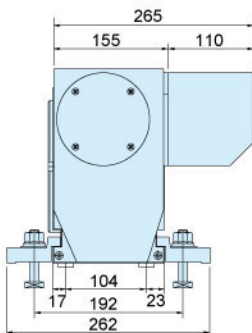
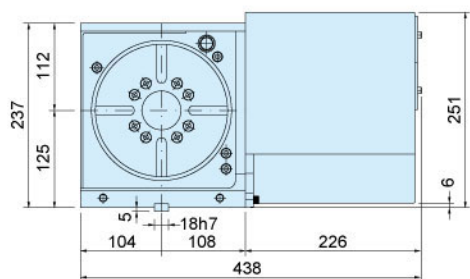
1. Rigid Bearing Structure—Crossed Roller Bearings.
2. High Indexing Accuracy—Indexing accuracy within 20 sec.
3. High Clamping Torque—Air hydraulic as standard spec.
4. Double Lead Worm Gear System—Special high—tensile brass.

1. 高鋼性軸承結構—交叉錯位滾柱軸承
2. 高分割精度—分割精度在20 sec內
3. 高煞車扭力—氣/油壓為標準規格
4. 雙導承程渦桿，渦輪—採用高鋼性，高耐磨材質



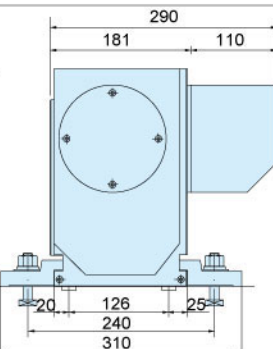
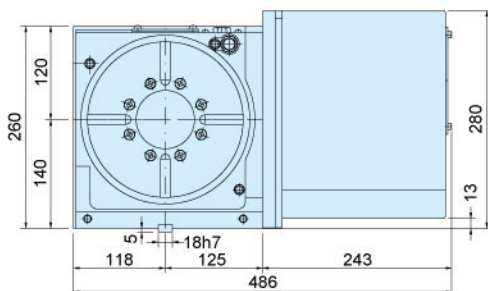
Dimension / 外形尺寸圖

• 30000170 MODEL: SRT-170



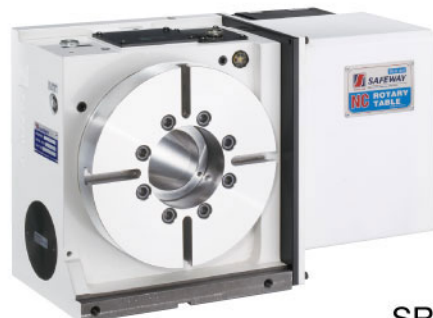
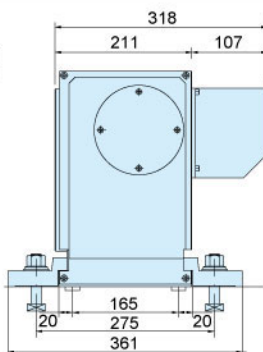
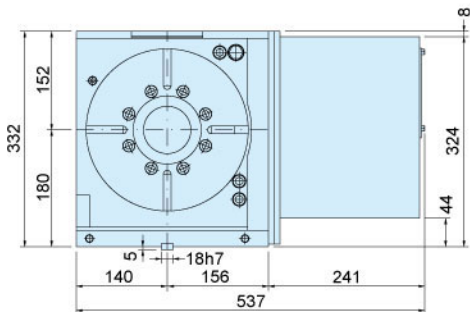
SRT-170

• 30000217 MODEL: SRT-217



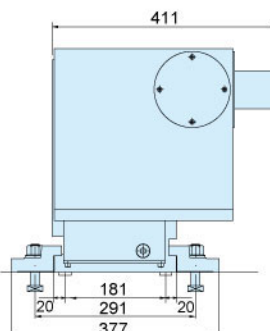
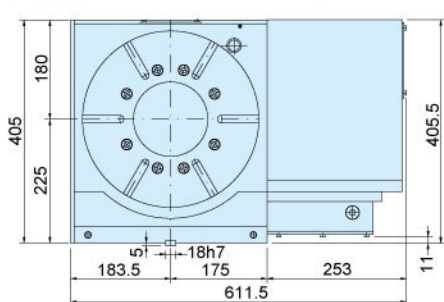
SRT-217

• 30000256 MODEL: SRT-256



SRT-256

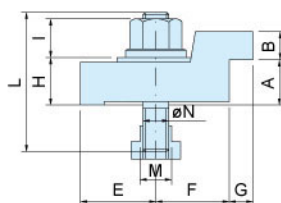
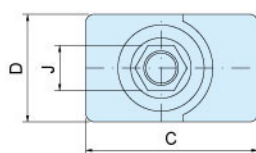
• 30000322 MODEL: SRT-322



SRT-322

Remark: The above dimensions are for FANUC、MITSUMISHI servo motor.
備註：以上尺寸配合FANUC、MITSUMISHI馬達

Clamping block & bolt
壓塊



Through hole
主軸貫穿孔

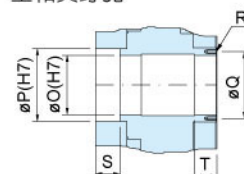
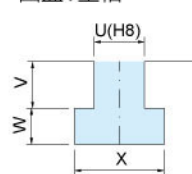


Table T-slots
圓盤T型槽



MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Qty	O	P	Q	R	S	T	U	V	W	X	Remark
SRT-170	22	12	80	40	35	33	12	22	18	21	8	65	14	M12	4	40	50	50	6-M6	32	20	12	11	9	21	
SRT-217	22	12	80	40	35	33	12	22	22	25	11	75	18	M16	4	52	75	62	6-M6	36	20	12	11	9	21	
SRT-256	25	16	91	50	43	33	14	26	22	25	11	75	18	M16	4	78	105	91	6-M8	40	20	12	11	9	21	
SRT-322	30	18	91	50	43	33	14	26	22	25	11	75	18	M16	4	110	135	124	8-M8	45	20	14	13	10	25	

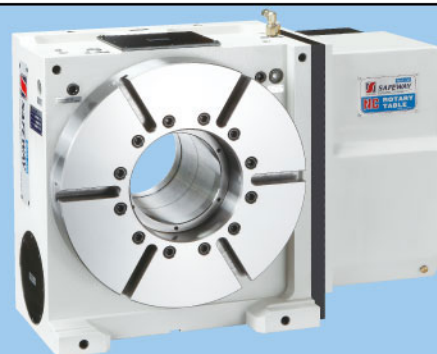


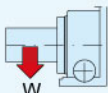
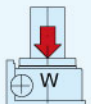
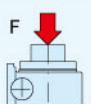
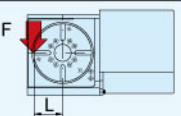
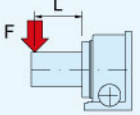
SRT

NC Rotary Table
NC 四軸分度盤
400, 500
630, 800

High rigidity / 高鋼性
High precision / 高精度
High clamping torque / 高扭力

Application for 4 axis Machining



Order No.	訂購編號	30000400	30000500	30000630	30000800
Model	型 號	SRT-400	SRT-500	SRT-630	SRT-800
Table diameter	面盤直徑	ø400	ø500	ø630	ø800
Center height	中心高度	260	310	400	480
Center hole 主軸孔徑	Table nose dia. / 主軸鼻端孔	ø180H7	ø230H7	ø310H7	ø480H7
	Through hole / 主軸貫穿孔	ø150	ø190	ø270	ø410
Table T-slots width	面盤T槽	18H8	18H8	18H8	18H8
Guide block width	導正鍵	18h7	18h7	18h7	18h7
Servo motor 驅動馬達	FANUC	iF12/3000	iF12/3000	iF22/3000	iF22/3000
	MITSUBISHI	HF203S	HF203S	HF353S	HF4533S
Gear ratio	齒輪減速比	1/120(1/180)	1/120(1/180)	1/180	1/180
Table max. rpm (Motor rpm:3000min) ⁻¹	面盤最高轉速	25 (11.1)	25 (11.1)	11.1	11.1
Clamping torque (N.m) (pneumatic 0.5MPa/hydraulic3MPa)	煞車扭力	2500	3200	4000	4800
Clamping system	煞車系統(油壓)	油壓/hydraulic	油壓/hydraulic	油壓/hydraulic	油壓/hydraulic
Indexing accuracy (arc.sec)	割出精度	20 sec	20 sec	20 sec	20 sec
Repeatability accuracy (arc.sec)	重覆精度	4 sec	4 sec	4 sec	4 sec
Net weight (kg)	淨重	297	437	765	1160
Allowable work weight 容許工件重量	Vertical setting 垂直負荷 () with Tailstock 附尾座 	Kg 250	300	400	500
	Horizontal setting 水平負荷 	Kg 500	600	1000	1800
Allowable load (When table is clamped) 容許煞車 扭力負荷	F 	kN 32	50	70	90
	F x L 	N-m 5000	8000	10000	12000
	F x L 	N-m 2500	3200	4000	4800
Driving torque 容許切削扭力	T 	N-m 1700	2600	5000	13000

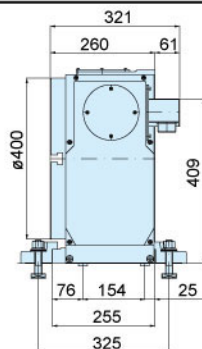
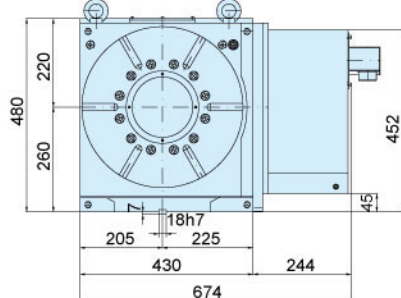
- 1.Rigid Bearing Structure- Crossed Roller Bearings
- 2.High Indexing Accuracy-Indexing accuracy within 20 sec.
- 3.High Clamping Torque-hydraulic as standard spec.
- 4.Double Lead Worm Gear System-Special high-tensile brass.

- 1.高鋼性軸承結構-交叉錯位滾柱軸承
- 2.高分割精度-分割精度在20 sec內
- 3.高煞車扭力-油壓為標準規格
- 4.雙導承程渦桿、渦輪-採用高張力、高耐磨材質



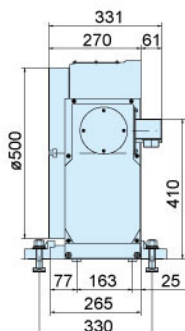
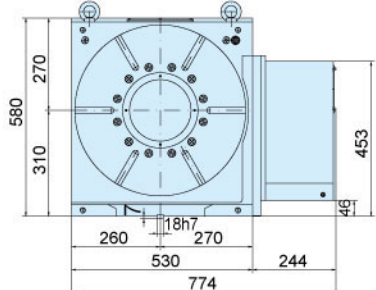
Dimension / 外形尺寸圖

• 30000400 MODEL: SRT-400



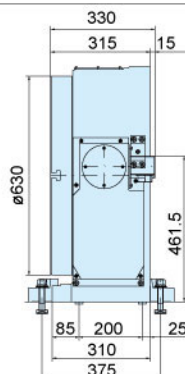
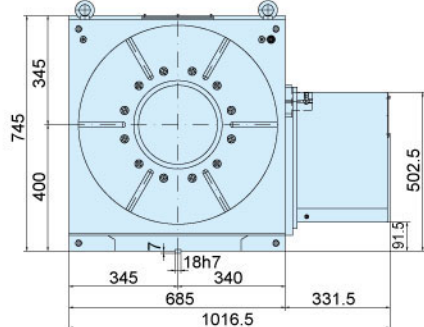
SRT-400

• 30000500 MODEL: SRT-500



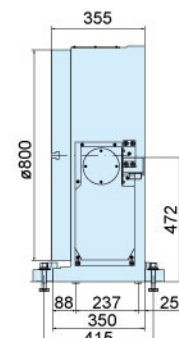
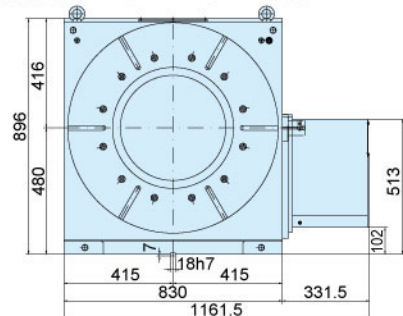
SRT-500

• 30000630 MODEL: SRT-630



SRT-630

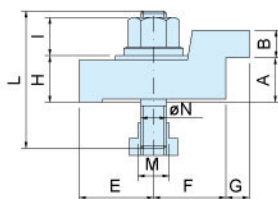
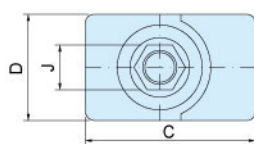
• 30000800 MODEL: SRT-800



SRT-800

Remark: The above dimensions are for FANUC、MITSUMISHI servo motor.
備註：以上尺寸配合FANUC、MITSUMISHI馬達

Clamping block & bolt
壓塊



Through hole
主軸貫穿孔

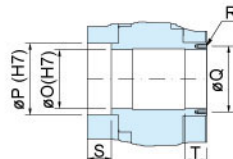
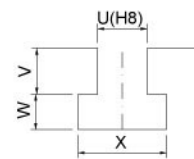


Table T-slots
圓盤T型槽



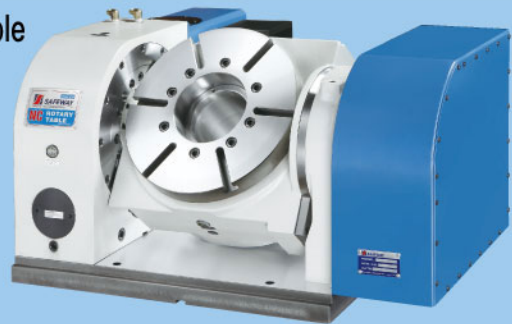
MODEL	A	B	C	D	E	F	G	H	I	J	L	M	N	Qty	O	P	Q	R	S	T	U	V	W	X	Remark
SRT-400	35	18	91	50	43	33	15	31	22	25	75	18	M16	4	150	180	170	6-M10	48	25	18	18	12	30	
SRT-500	35	18	91	50	43	33	15	31	22	25	75	18	M16	4	190	230	215	6-M10	48	25	18	18	12	30	
SRT-630	50	23	91	50	43	33	15	31	22	25	75	18	M16	4	270	310	295	6-M10	55	25	18	18	12	30	
SRT-800	50	23	91	50	43	33	15	31	22	25	75	18	M16	4	410	480	440	6-M12	60	30	18	18	12	30	



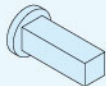
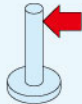
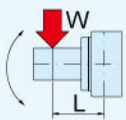
STRT

NC Tilting Rotary Table
NC 五軸分度盤
**125, 170
202**

High rigidity / 高鋼性
High precision / 高精度
High clamping torque / 高扭力

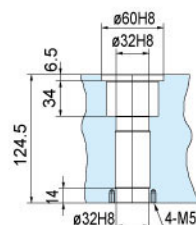
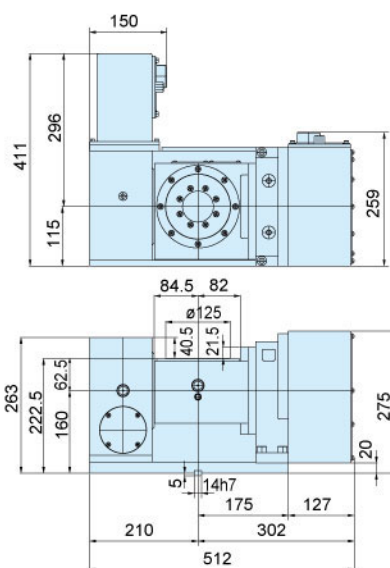


Application for 5 axis Machining

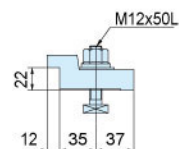
Order No.		訂購編號	40000125		40000170		40000202	
Model		型 號	STRT-125		STRT-170		STRT-202	
Table diameter		面盤直徑	ø125		ø170		ø202	
Center height		中心高度	160		180		180	
Center hole	Table nose dia.主軸鼻端孔	ø60H7	ø60H7		ø50H7		ø50H7	
主軸孔徑	Through hole 主軸貫穿孔	ø32	ø32		ø40		ø40	
Table T-slots width		面盤T槽	12H8 (附面盤)		12H8		12H8	
Guide block width		導正鍵	14h7		18h7		18h7	
Axis 軸向			Rotating 回轉軸	Tilting 傾斜軸	Rotating 回轉軸	Tilting 傾斜軸	Rotating 回轉軸	Tilting 傾斜軸
Gear ratio			1/72	1/72	1/72	1/90	1/72	1/90
Max.spindle rpm (Motor rpm: 3000 min)		最高轉速	41.6	41.6	41.6	33.3	41.6	33.3
Indexing accuracy(arc.sec)		刻出精度	30 sec	60 sec	30 sec	60 sec	30 sec	60 sec
Repeatability accuracy(arc.sec)		重覆精度	4 sec	4 sec	4 sec	4 sec	4 sec	4 sec
Clamp torque (N.m)	Pneumatic 6kg/cm ² 氣壓	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
煞車扭力	Hydraulic 35 kg/cm ² 油壓	氣 壓	氣 壓	氣 壓	氣壓+油壓	氣壓+油壓	氣壓+油壓	氣壓+油壓
Servo motor (FANUC)		驅動馬達	iF2 / 5000	iF2 / 5000	iF2 / 5000	iF2 / 5000	iF2 / 5000	iF2 / 5000
Tilting capacity		容許傾斜角度	0-360 °	+45-110 °	0-360 °	+45-110 °	0-360 °	+45 -110 °
Net weight (kg)		淨重	92		140		145	
Allowable work weight 容許工件重量	Horizontal setting (kg) 水平負荷		50		60		60	
	Vertical setting (kg) 傾斜負荷		30		40		40	
Allowable load (When table is clamped) 容許煞車扭力負荷	F(kN)		4		5		5	
	FxL(N-m)		280		800		800	
	FxL(N-m)		500		450		450	
Allowable work inertia 容許切削慣性矩	WxL (kgf. m)		11		12		12	
Driving torque 容許切削扭力	T(N-m)		190		250		250	



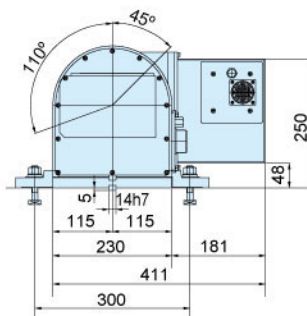
• 40000125 MODEL: STRT-125



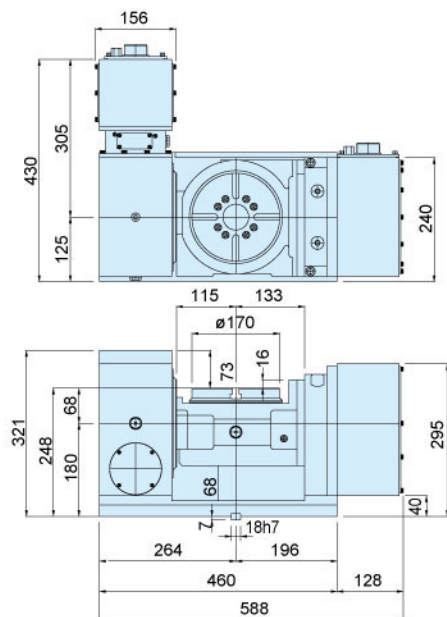
Thru-hole Dia.
主軸貫穿孔



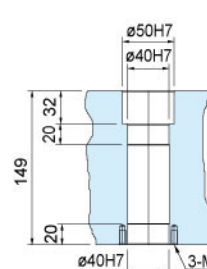
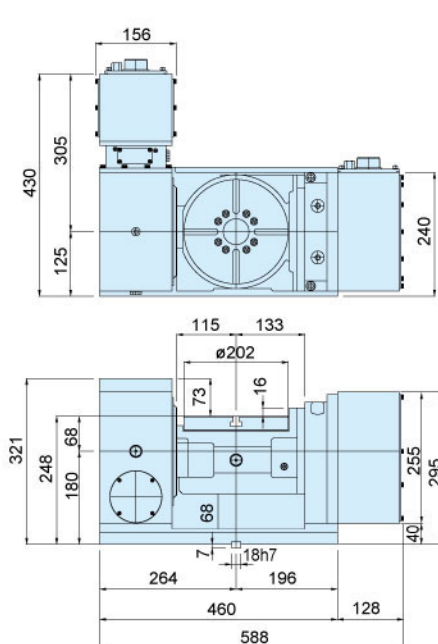
Clamping device
壓塊



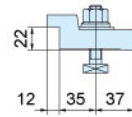
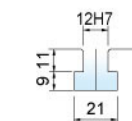
• 40000170 MODEL: STRT-170



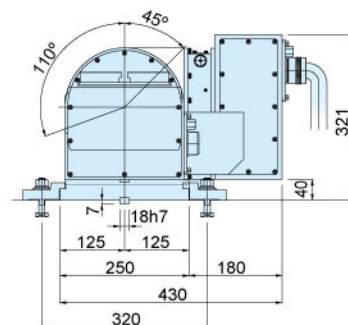
• 40000202 MODEL: STRT-202



Thru-hole Dia.
主軸貫穿孔



Clamping device
壓塊





STRT

NC Tilting Rotary Table
NC 五軸分度盤
256, 322

High rigidity / 高鋼性
High precision / 高精度
High clamping torque / 高扭力



Application for 5 axis Machining

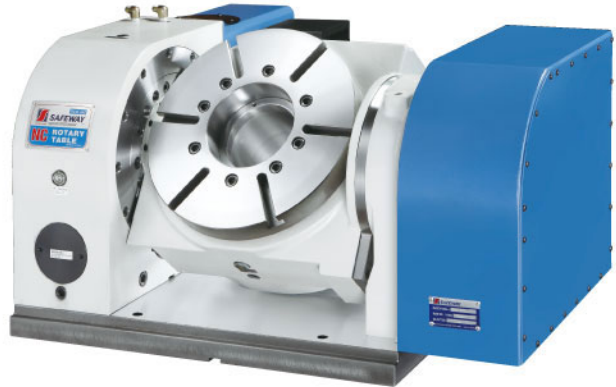
Order No.	訂購編號	40000256		40000322	
Model	型號	STRT-256		STRT-322	
Table diameter	面盤直徑	ø256		ø322	
Center height	中心高度	225		255	
Center hole	Table nose dia. 主軸鼻端孔	ø105H7		ø135H7	
主軸孔徑	Through hole 主軸貫穿孔	ø78		ø110	
Table T-slots width	面盤T槽	12H8		14H8	
Guide block width	導正鍵	18h7		18h7	
Axis	軸向	Rotating	Tilting	Rotating	Tilting
		回轉軸	傾斜軸	回轉軸	傾斜軸
Gear ratio		1/90	1/90	1/120	1/120
Max.spindle rpm		33.3	33.3	25	25
(Motor rpm: 3000 min)	最高轉速				
Indexing accuracy(arc.sec)	刻出精度	20 sec	45 sec	20 sec	45 sec
Repeatability accuracy(arc.sec)	重複精度	4 sec	4 sec	4 sec	4 sec
Clamp torque (N.m)	Hydraulic 35 kg/cm ² 油壓	Hydraulic	Hydraulic	Hydraulic	Hydraulic
煞車扭力		油壓	油壓	油壓	油壓
Servo motor (FANUC)	驅動馬達	iF4 / 4000	iF4 / 4000	iF8 / 3000	iF8 / 3000
Tilting capacity	容許傾斜角度	0-360 °	+45-110 °	0-360 °	+45-110 °
Net weight (kg)	淨重	280		400	
Allowable work weight 容許工件重量	Horizontal setting (kg) 水平負荷	100		150	
	Vertical setting (kg) 傾斜負荷	60		100	
Allowable load (When table is clamped) 容許煞車扭力負荷	F(kN)	12		16	
	FxL(N-m)	1200		2600	
	FxL(N-m)	900		2600	
Allowable work inertia 容許切削慣性矩	WxL (kgf. m)	26		75	
Driving torque 容許切削扭力	T(N-m)	600		1000	



Best aid
SAFEWAY

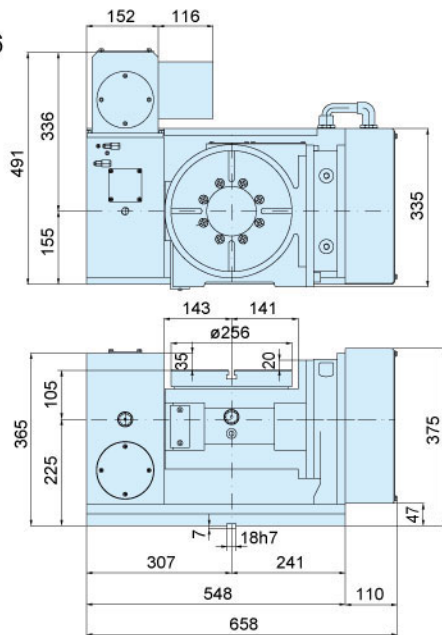
ISO-9001:2008

Dimension / 外形尺寸圖

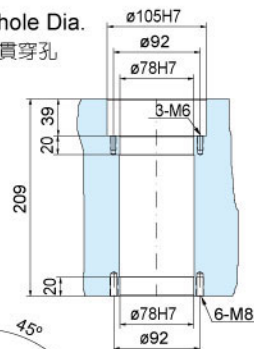


• 40000256

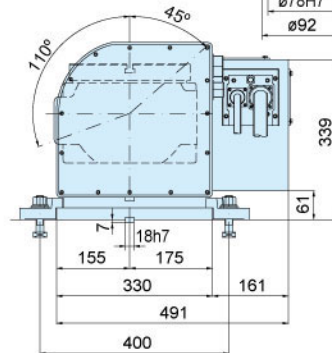
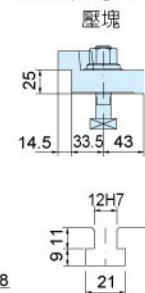
MODEL: STRT-256



Thru-hole Dia.
主軸貫穿孔

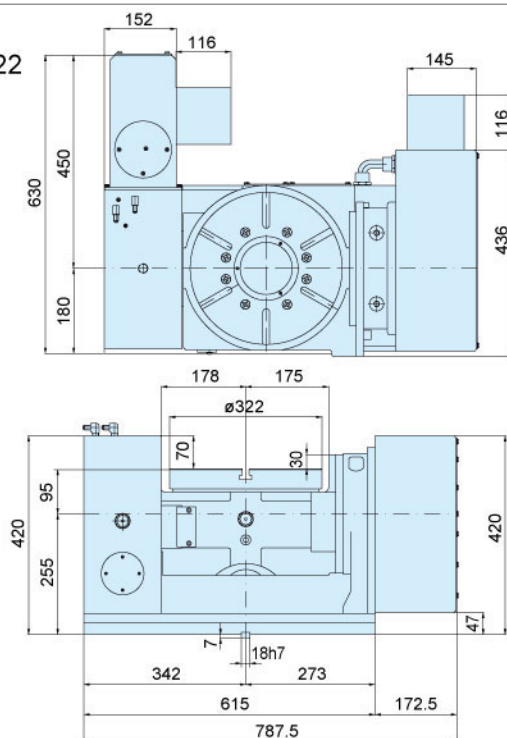


Clamping device
壓塊

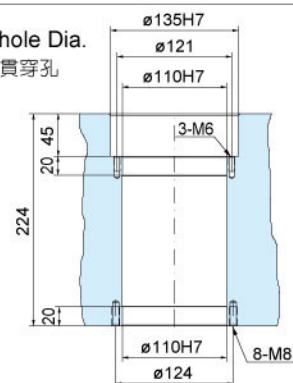


• 40000322

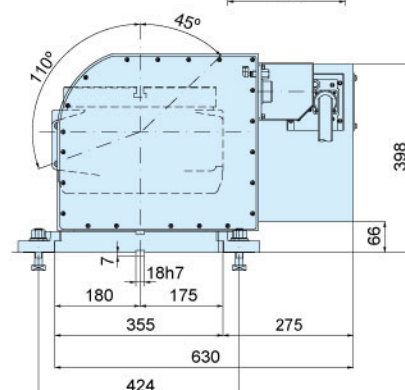
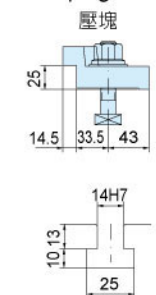
MODEL: STRT-322



Thru-hole Dia.
主軸貫穿孔



Clamping device
壓塊





Best aid
SAFEMATE

ISO-9001:2008

VCV

MOST SUITABLE FOR VERTICAL MACHINE CENTER, MILLING MACHINE

最適合立式綜合切削加工機，銑床使用

FMS · Mechanical

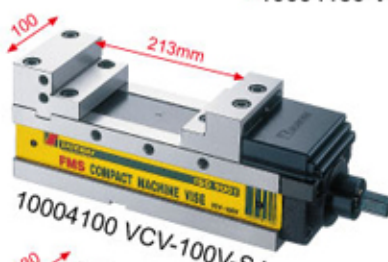
彈性化 / 機械型

MODEL • 10000100 VCV-100V • 10000200 VCV-200V
• 10000130 VCV-130V • 10000250 VCV-250V
• 10000160 VCV-160V

MODEL • 10004100 VCV-100V-SJ • 10004200 VCV-200V-SJ
• 10004130 VCV-130V-SJ • 10004250 VCV-250V-SJ
• 10004160 VCV-160V-SJ

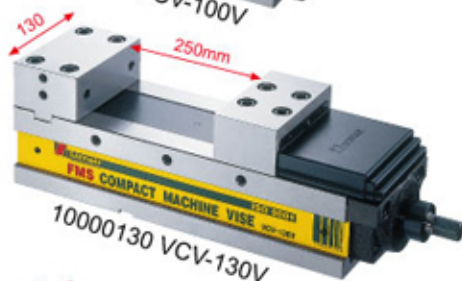


10000100 VCV-100V

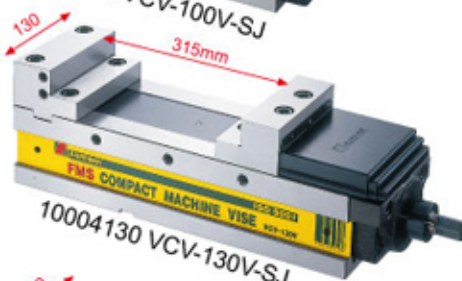


10004100 VCV-100V-SJ

Jaw Width/口金寬度: 100
Jaw Opening/最大開口: 155/213
Total Length/總長度: 398
夾緊能力 Clamp force (KN)
0 50 100 KN

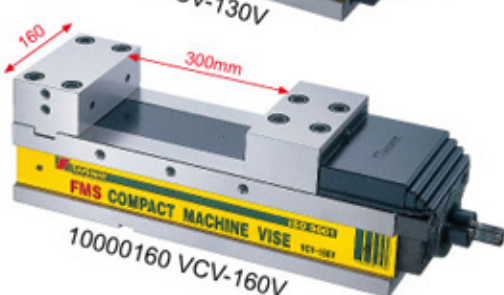


10000130 VCV-130V

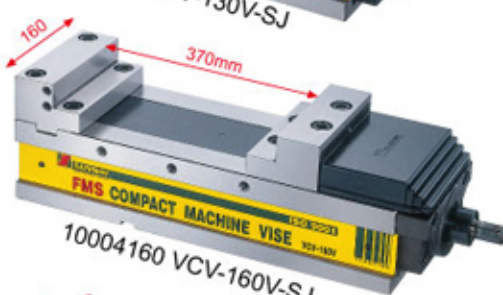


10004130 VCV-130V-SJ

Jaw Width/口金寬度: 130
Jaw Opening/最大開口: 250/315
Total Length/總長度: 508
夾緊能力 Clamp force (KN)
0 50 100 KN

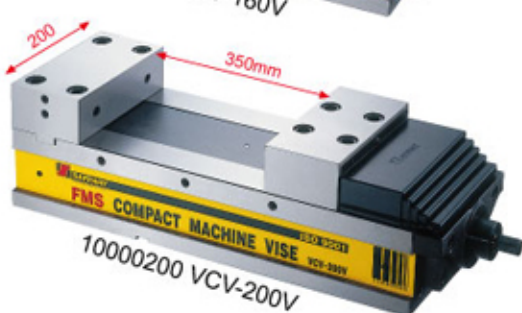


10000160 VCV-160V

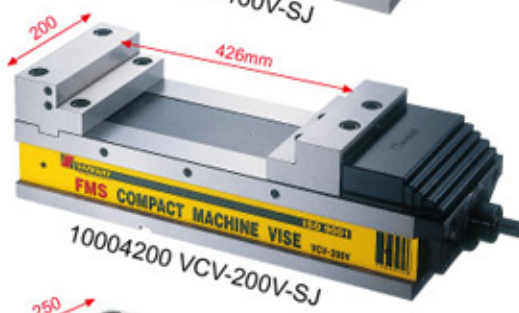


10004160 VCV-160V-SJ

Jaw Width/口金寬度: 160
Jaw Opening/最大開口: 300/370
Total Length/總長度: 573
夾緊能力 Clamp force (KN)
0 50 100 KN



10000200 VCV-200V

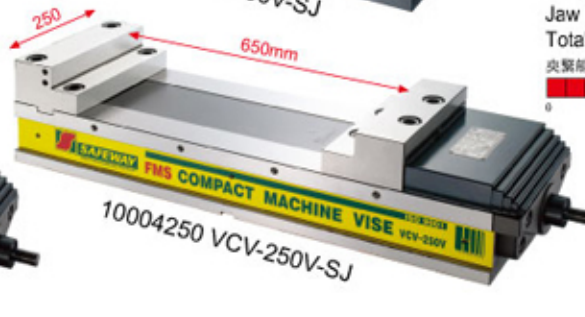


10004200 VCV-200V-SJ

Jaw Width/口金寬度: 200
Jaw Opening/最大開口: 350/426
Total Length/總長度: 653
夾緊能力 Clamp force (KN)
0 50 100 KN



10000250 VCV-250V



10004250 VCV-250V-SJ

Jaw Width/口金寬度: 250
Jaw Opening/最大開口: 550/650
Total Length/總長度: 903
夾緊能力 Clamp force (KN)
0 50 100 KN

螺桿夾緊，精度極高，適用於中輕切削加工

※本機型備有V(定寸)與S(不定寸)二種供選用

Unit: mm

Order NO. 訂購編號	Model 型號	Jaw Width 口金寬度	Jaw Height 口金高度	Jaw Opening J (J1) 開口範圍 J (J1)	Vise Height 虎鉗高度	Total Height 全高	Total Length 全長	Remark 備註
10000100	VCV-100V	100	45	155	85	130	398	
10000130	VCV-130V	130	52	250	95	147	508	
10000160	VCV-160V	160	55	300	105	160	573	
10000200	VCV-200V	200	60	350	110	170	653	
10000250	VCV-250V	250	78	550	115	193	903	
10004100	VCV-100V-SJ	100	45	213	85	130	398	
10004130	VCV-130V-SJ	130	52	315	95	147	508	
10004160	VCV-160V-SJ	160	55	370	105	160	573	
10004200	VCV-200V-SJ	200	60	426	110	170	653	
10004250	VCV-250V-SJ	250	78	650	115	193	903	



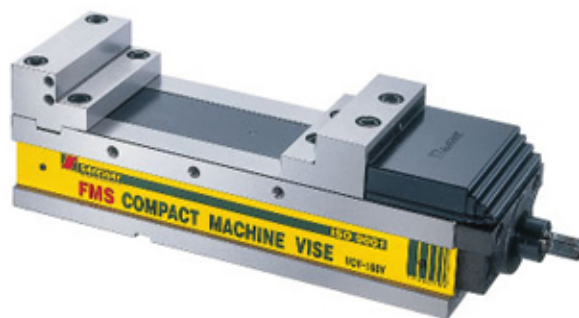
FMS COMPACT MACHINE VISE FMS彈性化 / 肯倍得式精密機械虎鉗

FEATURES :

- Max. opening capacity and compact in total length. Particularly suitable for machining centers.
- Clamping system: Lead screw.
- Rigid material-ductile iron FCD600 JIS (Equal to GGG-60) with 60kgs/mm² or 80,000psi tensile strength.
- Vise bed flame hardened to HRC45° and up takes up wear and maintain accuracy for long.
- Stationary jaw and movable jaw are hardened HRC55° with grinding.
- Stationary jaw and movable jaw are easy to shift on the clamping slide.
- Chip cover adopt on each vise for preventing chips falling into Lead-screw and inside of vise.

特性：

- 肯倍得式精密機械虎鉗，適用立、臥式綜合切削加工機FMS系統做精密切削加工。
- 夾緊系統：螺桿夾緊。
- 強而有力材質~虎鉗本台使用高抗張力球狀石墨化鑄鐵 (FCD600~60kgs/mm²) (80,000psi) 抗張力強，不易變形。
- 虎鉗本台滑動面均經硬化熱處理HRC45°以上，可保持長久耐磨性及精度。
- 固定口金，活動口金鋼製熱處理HRC55°以上，並經精密研磨。(容易拆裝)
- 虎鉗防屑設計，以防止加工鐵屑傾入傳動螺桿及虎鉗內部，不易清除。



Optional Accessories

Step Jaw (HRC55°)

特殊附件

階梯口金-鋼製研磨(HRC55°)

Order NO. 訂購編號	Model 型號	J1	M
10004100	VCV-100V-SJ	213	25
10004130	VCV-130V-SJ	315	30
10004160	VCV-160V-SJ	370	30
10004200	VCV-200V-SJ	426	30
10004250	VCV-250V-SJ	650	40

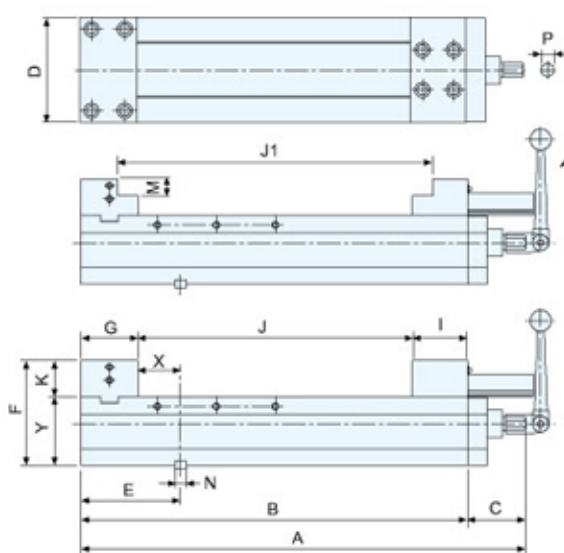
Standard Accessories

1. Handle x 1 pc
2. Guide key x 2 pcs
M6 x 10L x 2 pcs
3. Vise locked block x 4 pcs
4. Chip cover x 1 set

標準附件

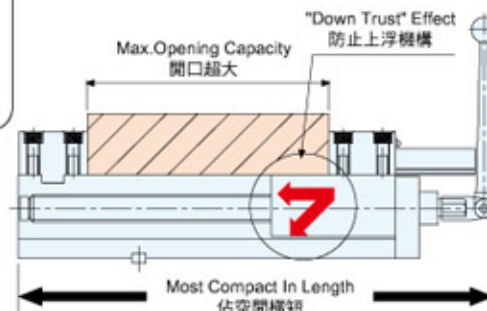
1. 把手一組
2. 導正鍵 x 2只
螺絲 x 2只 (M6 x 10L)
3. 虎鉗固定塊 x 4只
4. 虎鉗防屑蓋

DIMENSIONS / 尺寸圖

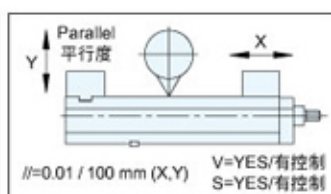
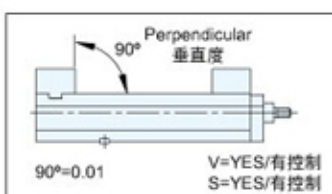
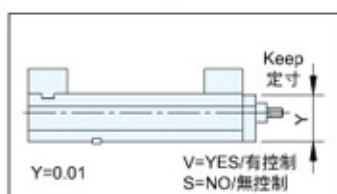
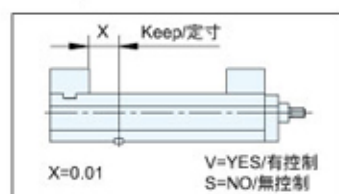


STEP JAW / 階梯口金 (Optional / 特殊附件)

- 10004100 VCV-100V-SJ
- 10004130 VCV-130V-SJ
- 10004160 VCV-160V-SJ
- 10004200 VCV-200V-SJ
- 10004250 VCV-250V-SJ



- Clamp power intensification via "Lead-screw" intensifier.
- Lower deformable design for very high clamping accuracy.



PATENTED / 專利在案

Unit: mm, kg

Order NO. 訂購編號	Model 型號	A	B	C	D	E	F	G	I	J	K	N	P	X	Y	X.Y =0.01	N.W. 淨重	G.W. 毛重	Shipment Size 裝箱尺寸	Remark 備註
10000100	VCV-100V	398	300	98	101	124	130	78	64	155	45	18	19	45	85	YES	21	23	600x210x185	
10005100	VCV-100S	398	300	98	101	124	130	78	64	155	45	18	19	45	85	NO	21	23	600x210x185	
10000130	VCV-130V	508	410	98	131	149	147	83	74	250	52	18	19	65	95	YES	38	40	660x240x200	
10005130	VCV-130S	508	410	98	131	149	147	83	74	250	52	18	19	65	95	NO	38	40	660x240x200	
10000160	VCV-160V	573	475	98	161	152	160	86	86	300	55	18	19	65	105	YES	57	60	760x280x205	
10005160	VCV-160S	573	475	98	161	152	160	86	86	300	55	18	19	65	105	NO	57	60	760x280x205	
10000200	VCV-200V	653	555	98	201	194	170	100	97	350	60	18	19	92	110	YES	87	90	840x325x230	
10005200	VCV-200S	653	555	98	201	194	170	100	97	350	60	18	19	92	110	NO	87	90	840x325x230	
10000250	VCV-250V	903	805	98	251	402.5	193	124	124	550	78	22	19	276.5	115	YES	150	166	1045x410x330	
10005250	VCV-250S	903	805	98	251	402.5	193	124	124	550	78	22	19	276.5	115	NO	150	166	1045x410x330	



Best aid
SAFEMATE

ISO-9001:2008

VHV

MOST SUITABLE FOR VERTICAL MACHINE CENTER, MILLING MACHINE

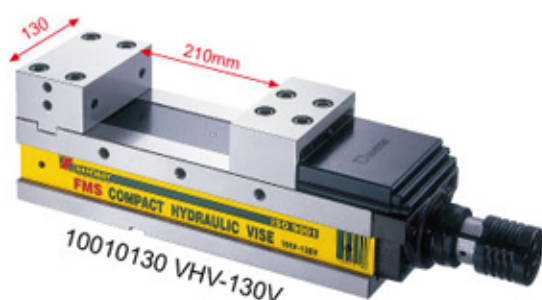
最適合立式綜合切削加工機，銑床使用

FMS · Hydraulic

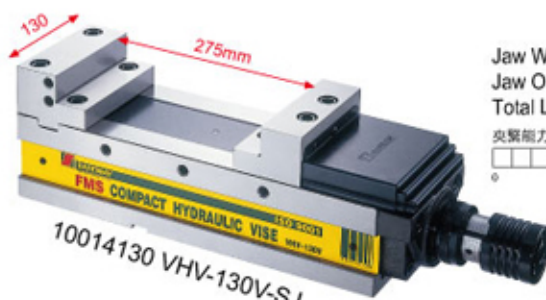
彈性化 / 油壓型

MODEL • 10010130 VHV-130V • 10010200 VHV-200V
• 10010160 VHV-160V • 10010250 VHV-250V

MODEL • 10014130 VHV-130V-SJ • 10014160 VHV-160V-SJ
• 10014200 VHV-200V-SJ • 10014250 VHV-250V-SJ

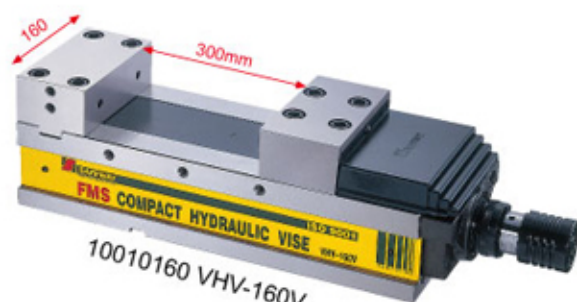


10010130 VHV-130V

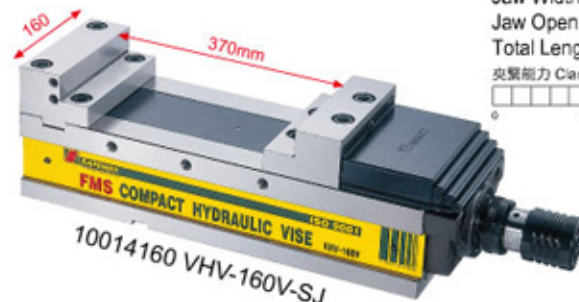


10014130 VHV-130V-SJ

Jaw Width/口金寬度: 130
Jaw Opening/最大開口: 210/275
Total Length/總長度: 545
夾緊能力 Clamp force (KN)
0 50 100 KN

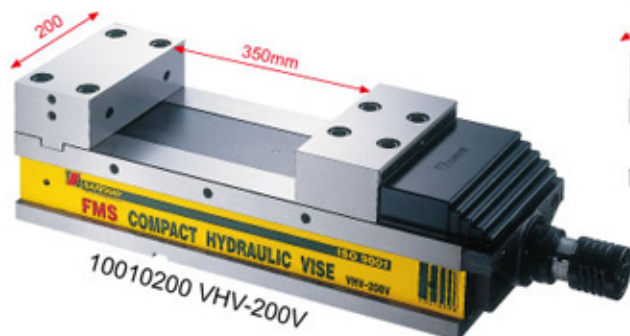


10010160 VHV-160V

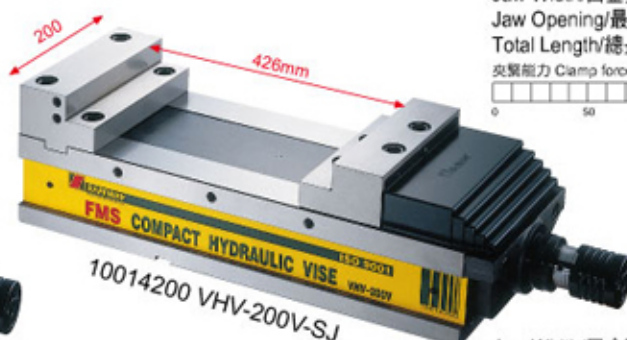


10014160 VHV-160V-SJ

Jaw Width/口金寬度: 160
Jaw Opening/最大開口: 300/370
Total Length/總長度: 610
夾緊能力 Clamp force (KN)
0 50 100 KN

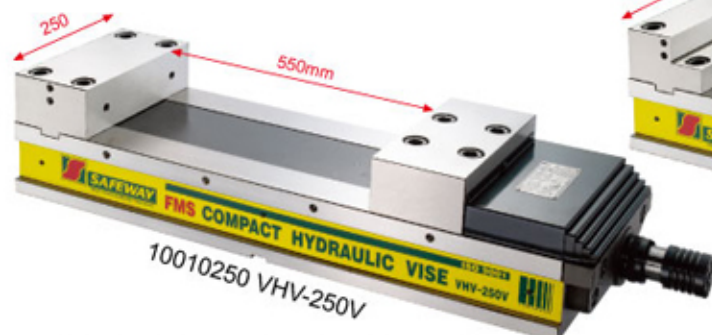


10010200 VHV-200V

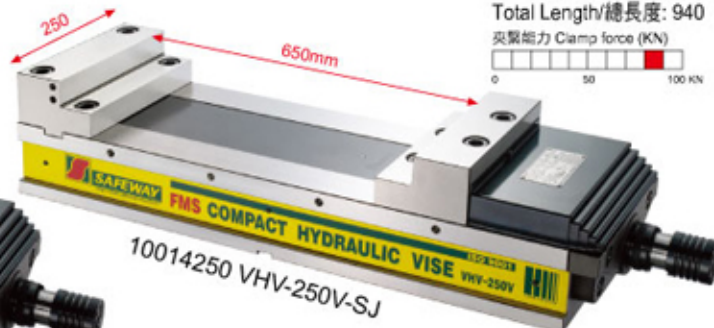


10014200 VHV-200V-SJ

Jaw Width/口金寬度: 200
Jaw Opening/最大開口: 350/426
Total Length/總長度: 690
夾緊能力 Clamp force (KN)
0 50 100 KN



10010250 VHV-250V



10014250 VHV-250V-SJ

Jaw Width/口金寬度: 250
Jaw Opening/最大開口: 550/650
Total Length/總長度: 940
夾緊能力 Clamp force (KN)
0 50 100 KN

油壓夾緊力大且穩定，適用於超重切削精密加工。

Unit: mm

Order NO. 訂購編號	Model 型號	Jaw Width 口金寬度	Jaw Height 口金高度	Jaw Opening J (J1) 開口範圍 J (J1)	Vise Height 虎鉗高度	Total Height 全高	Total Length 全長	Limit. Pressure 最大夾緊力	Remark 備註
10010130	VHV-130V	130	52	210	95	147	545	72KN(7056kgf)	
10010160	VHV-160V	160	55	300	105	160	610	77KN(7546kgf)	
10010200	VHV-200V	200	60	350	110	170	690	82KN(8036kgf)	
10010250	VHV-250V	250	78	550	115	193	940	90KN(8820kgf)	
10014130	VHV-130V-SJ	130	52	275	95	147	545	72KN(7056kgf)	
10014160	VHV-160V-SJ	160	55	370	105	160	610	77KN(7546kgf)	
10014200	VHV-200V-SJ	200	60	426	110	170	690	82KN(8036kgf)	
10014250	VHV-250V-SJ	250	78	650	115	193	940	90KN(8820kgf)	



FMS COMPACT HYDRAULIC VISE FMS彈性化 / 肯倍得式精密油壓虎鉗

FEATURES :

- Max. opening capacity and compact in total length, particularly suitable for machining centers.
- Clamping system: Mechanical / Hydraulic.
- Vise bed frame hardened to HRC45° and up takes up wear and maintain accuracy for long.
- Rigid material-ductile iron FCD600 JIS (Equal to GGG-60) with 60kgs/mm² or 80,000psi tensile strength.
- Stationary jaw and movable jaw are hardened HRC55° with grinding.
- Stationary jaw and movable jaw are easy to shift on the clamping slide.
- Chip cover adopt on each vise for preventing chips falling into lead-screw and inside of vise.

特性：

- 肯倍得式精密油壓虎鉗，適用立、臥式綜合切削加工機FMS系統做重切削加工。
- 夾緊系統：機械式 / 油壓式。
- 強而有力材質~虎鉗本台使用高抗張力球狀石墨化鑄鐵 (FCD600~60kgs/mm²) (80,000psi) 抗張力強，不易變形。
- 虎鉗本台滑動面均經硬化熱處理HRC45°以上，可保持長久耐磨性及精度。
- 固定口金，活動口金鋼製熱處理HRC55°以上，並經精密研磨(容易拆裝)。
- 虎鉗防屑設計，以防止加工鐵屑傾入傳動螺桿及虎鉗內部，不易清除。



Optional Accessories

Step Jaw (HRC55°)

特殊附件

階梯口金-鋼製研磨(HRC55°)

Order NO. 訂購編號	Model 型號	J1	M
10014130	VHV-130V-SJ	275	30
10014160	VHV-160V-SJ	370	30
10014200	VHV-200V-SJ	426	30
10014250	VHV-250V-SJ	650	40

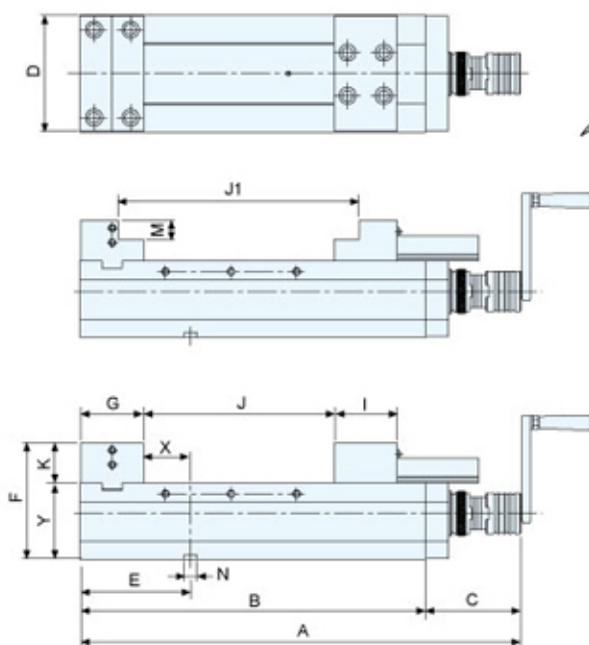
Standard Accessories

1. Handle x 1 pc
2. Guide key x 2 pcs
M6 x 10L x 2 pcs
3. Vise locked block x 4 pcs
4. Chip cover x 1 set

標準附件

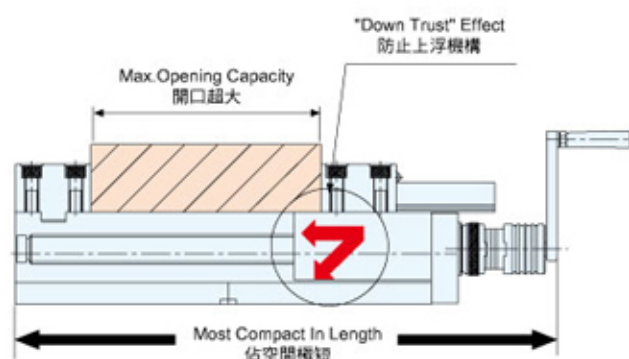
1. 把手一組
2. 導正鍵 x 2只
螺絲 x 2只 (M6 x 10L)
3. 虎鉗固定塊 x 4只
4. 虎鉗防屑蓋

DIMENSIONS / 尺寸圖

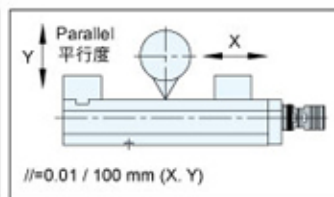
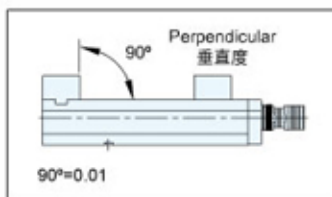
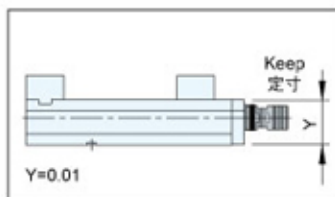
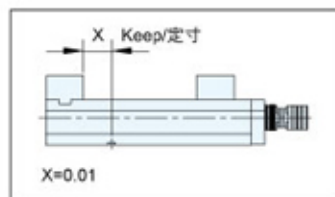


STEP JAW / 階梯口金 (Optional / 特殊附件)

- 10014130 VHV-130V-SJ • 10014200 VHV-200V-SJ
- 10014160 VHV-160V-SJ • 10014250 VHV-250V-SJ



- Clamp power intensification via "Lead - screw" intensifier.
- Lower deformable design for very high clamping accuracy.



PATENTED / 專利在案

Unit: mm, kg

Order NO. 訂購編號	Model 型號	A	B	C	D	E	F	G	I	J	K	N	X	Y	N.W. 淨重	G.W. 毛重	Shipment Size 裝箱尺寸	Remark 備註
10010130	VHV-130V	545	410	135	131	149	147	83	74	210	52	18	65	95	40	42	660x240x200	
10010160	VHV-160V	610	475	135	161	152	160	86	86	300	55	18	65	105	59	62	760x280x205	
10010200	VHV-200V	690	555	135	201	194	170	100	97	350	60	18	92	110	90	93	840x325x230	
10010250	VHV-250V	940	805	135	251	402.5	193	124	124	550	78	22	276.5	115	153	170	1045x410x330	



Best aid
SAFEMATE

ISO-9001:2008

VQV

MOST SUITABLE FOR VERTICAL MACHINE CENTER, MILLING MACHINE

最適立式綜合切削加工機，銑床使用

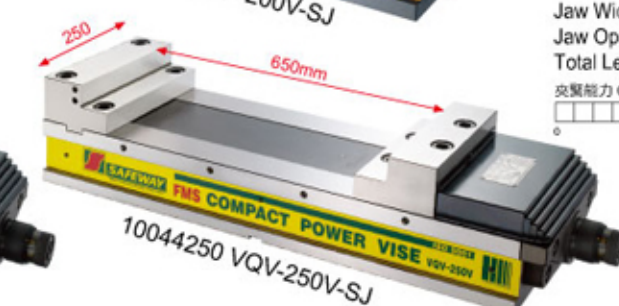
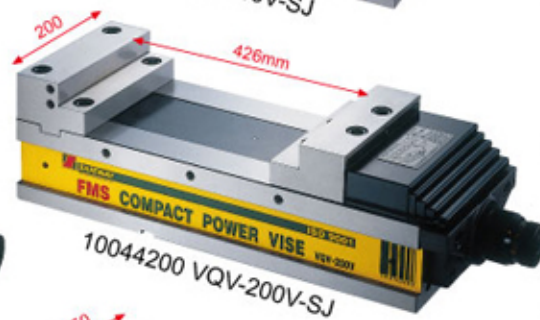
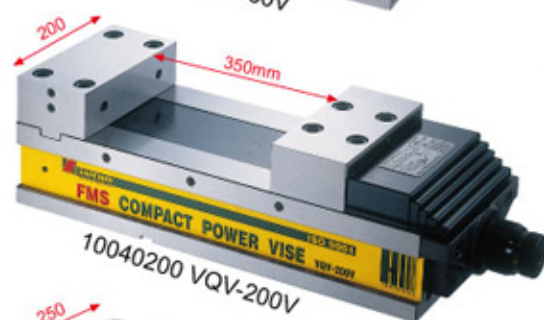
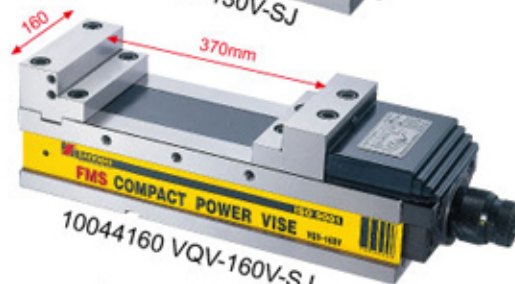
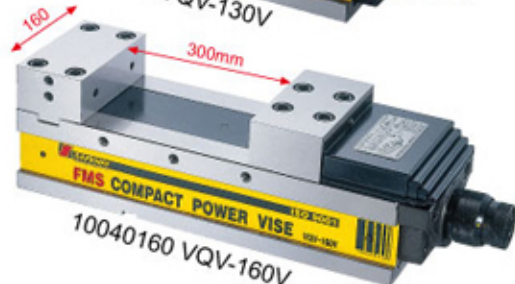
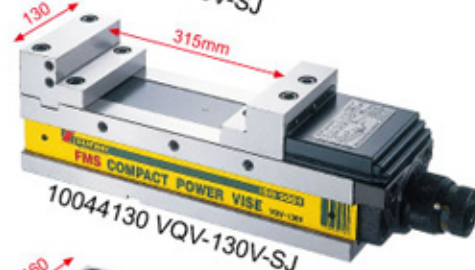
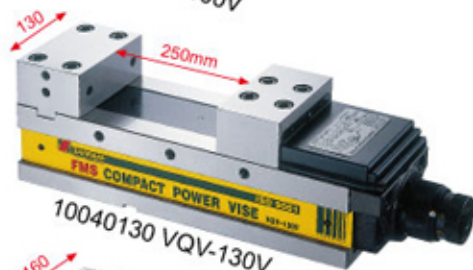
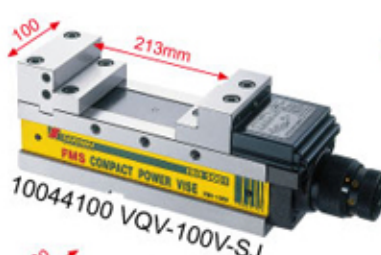
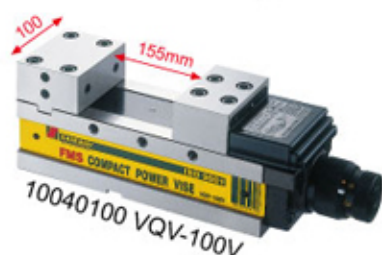
FMS · Power

彈性化 / 高倍力型

MODEL • 10040100 VQV-100V • 10040200 VQV-200V
• 10040130 VQV-130V • 10040250 VQV-250V
• 10040160 VQV-160V

MODEL • 10044100 VQV-100V-SJ • 10044200 VQV-200V-SJ
• 10044130 VQV-130V-SJ • 10044250 VQV-250V-SJ
• 10044160 VQV-160V-SJ

High Power
Soft Drive-Handle
工件夾緊力超大
把手旋轉力超軟



Jaw Width/口金寬度: 100
Jaw Opening/最大開口: 155/213
Total Length/總長度: 406

夾緊能力 Clamp force (KN)
0 50 100 KN

Jaw Width/口金寬度: 130
Jaw Opening/最大開口: 250/315
Total Length/總長度: 516

夾緊能力 Clamp force (KN)
0 50 100 KN

Jaw Width/口金寬度: 160
Jaw Opening/最大開口: 300/370
Total Length/總長度: 581

夾緊能力 Clamp force (KN)
0 50 100 KN

Jaw Width/口金寬度: 200
Jaw Opening/最大開口: 350/426
Total Length/總長度: 661

夾緊能力 Clamp force (KN)
0 50 100 KN

Jaw Width/口金寬度: 250
Jaw Opening/最大開口: 550/650
Total Length/總長度: 911

夾緊能力 Clamp force (KN)
0 50 100 KN

高倍力機械增壓夾緊力大且穩定，適用於超重切削精密加工

Unit: mm

Order NO. 訂購編號	Model 型號	Jaw Width 口金寬度	Jaw Height 口金高度	Jaw Opening J (J1) 開口範圍 J (J1)	Vise Height 虎鉗高度	Total Height 全高	Total Length 全長	Limit. Pressure 最大夾緊力	Remark 備註
10040100	VQV-100V	100	45	155	85	130	406	41KN(4018kgf)	
10040130	VQV-130V	130	52	250	95	147	516	45KN(4410kgf)	
10040160	VQV-160V	160	55	300	105	160	581	54KN(5292kgf)	
10040200	VQV-200V	200	60	350	110	170	661	66KN(6468kgf)	
10040250	VQV-250V	250	78	550	115	193	911	70KN(6860kgf)	
10044100	VQV-100V-SJ	100	45	213	85	130	406	41KN(4018kgf)	
10044130	VQV-130V-SJ	130	52	315	95	147	516	45KN(4410kgf)	
10044160	VQV-160V-SJ	160	55	370	105	160	581	54KN(5292kgf)	
10044200	VQV-200V-SJ	200	60	426	110	170	661	66KN(6468kgf)	
10044250	VQV-250V-SJ	250	78	650	115	193	911	70KN(6860kgf)	



FMS COMPACT POWER VISE

FMS彈性化 / 肯倍得式精密高倍力機械增壓虎鉗

FEATURES :

- Max. opening capacity and compact in total length. Particularly suitable for machining centers.
- Clamping system: Mechanical power.
- Drive spindle with clamping force presetting and stopper mechanism device.
- Rigid material-ductile iron FCD600 JIS (Equal to GGG-60) with 60kgs/mm² or 80,000psi tensile strength.
- Vise bed frame hardened to HRC45° and up takes up wear and maintain accuracy for long.
- Stationary jaw and movable jaw are hardened HRC55° with grinding.
- Stationary jaw and movable jaw are easy to shift on the clamping slide.
- Chip cover adopt on each vise for preventing chips falling into lead-screw and inside of vise.

特性：

- 角圓式肯倍得式精密倍力機械增壓虎鉗，適用立、臥式綜合切削加工機做精密切削加工。並設計有夾持力顯示功能，可知夾持力之大小。
- 夾緊系統：高倍力式 / 機械增壓。
- 高倍力式機構可隨時設定夾持力大小，且重複多次使用皆保持相同夾持力，及一致精度，並設計有夾持力過負荷保護裝置。
- 強而有力材質~虎鉗本台使用高抗張力球狀石墨化鑄鐵 (FCD600~60kgs/mm²) (80,000psi) 抗張力強，不易變形。
- 虎鉗本台滑動面均經硬化熱處理HRC45°以上，可保持長久耐磨性及精度。
- 固定口金，活動口金鋼製熱處理HRC55°以上，並經精密研磨。(容易拆裝)
- 虎鉗防屑設計，以防止加工鐵屑傾入傳動螺桿及虎鉗內部，不易清除。



Optional Accessories

Step Jaw (HRC55°)

特殊附件

階梯口金-鋼製研磨(HRC55°)

Order NO. 訂購編號	Model 型號	J1	M
10044100	VQV-100V-SJ	213	25
10044130	VQV-130V-SJ	315	30
10044160	VQV-160V-SJ	370	30
10044200	VQV-200V-SJ	426	30
10044250	VQV-250V-SJ	650	40

Standard Accessories

1. Handle x 1 pc
2. Guide key x 2 pcs
M6 x 10L x 2 pcs
3. Vise locked block x 4 pcs
4. Chip cover x 1 set

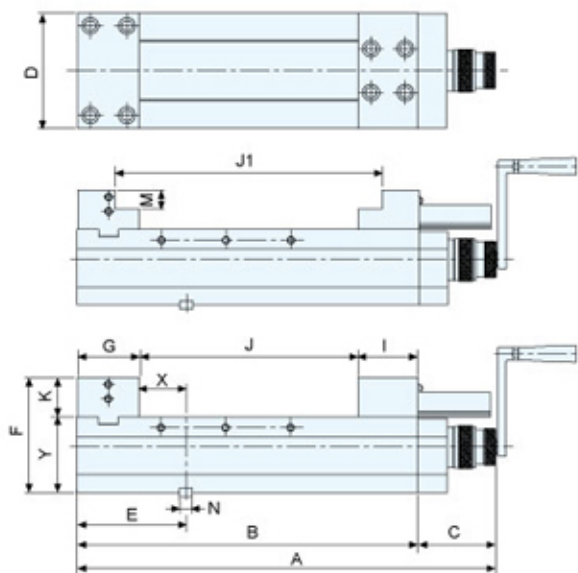
標準附件

1. 把手一組
2. 導正鍵 x 2只
螺絲 x 2只 (M6 x 10L)
3. 虎鉗固定塊 x 4只
4. 虎鉗防屑蓋

CLAMPING FORCE TABLE / 夾緊力表 KN (kgf)

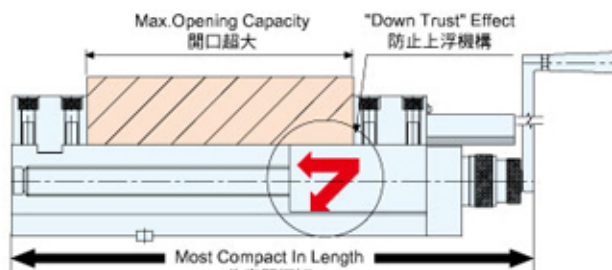
	4	3	2	1	0
VQV-100	41(4018)	30(2940)	17(1666)	10(980)	4(392)
VQV-130	45(4410)	34(3332)	17(1666)	10(980)	4(392)
VQV-160	54(5292)	43(4214)	21(2058)	12(1176)	5(490)
VQV-200	66(6468)	48(4704)	22(2156)	12(1176)	5(490)
VQV-250	70(6860)	52(5096)	25(2450)	13(1274)	5(490)

DIMENSIONS / 尺寸圖

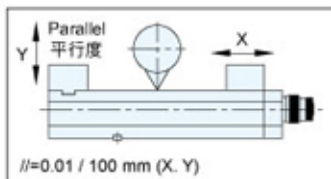
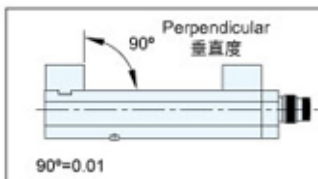
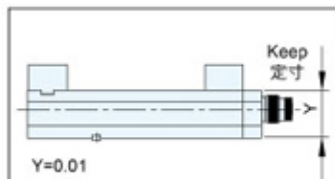
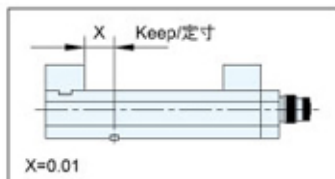


STEP JAW / 階梯口金 (Optional / 特殊附件)

- 10044100 VQV-100V-SJ
- 10044130 VQV-130V-SJ
- 10044160 VQV-160V-SJ
- 10044200 VQV-200V-SJ
- 10044250 VQV-250V-SJ



- Clamp power intensification via "Lead - screw" intensifier.
- Lower deformable design for very high clamping accuracy.



PATENTED / 專利在案

Unit: mm, kg

Order NO. 訂購編號	Model 型號	A	B	C	D	E	F	G	I	J	K	N	X	Y	N.W. 淨重	G.W. 毛重	Shipment Size 裝箱尺寸	Remark 備註
10040100	VQV-100V	406	300	106	101	124	130	78	64	155	45	18	45	85	22	24	600x210x185	
10040130	VQV-130V	516	410	106	131	149	147	83	74	250	52	18	65	95	40	42	660x240x200	
10040160	VQV-160V	581	475	106	161	152	160	86	86	300	55	18	65	105	59	62	760x280x205	
10040200	VQV-200V	661	555	106	201	194	170	100	97	350	60	18	92	110	90	93	840x325x230	
10040250	VQV-250V	911	805	106	251	402.5	193	124	124	550	78	22	276.5	115	153	170	1045x410x330	