

March 2017

### AUTO WELL Global Network



### AUTO WELL Enterprise Company Limited

*We reserve the right to modify and improve our products without prior notice.*

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VARIOUS PRECISION VISES

## AUTO WELL ENTER. CO., LTD.



Registered  
ISO 9001:2008



# AUTO WELL ENTERPRISE COMPANY LIMITED VARIOUS PRECISION VISES

for CNC machining centers and milling machines

Registered  
ISO 9001:2008

**A**uto 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.

**T**he 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 depart-

ments 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.

**W**e 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.

Company review



全力以赴 追求品質  
創新科技 品質至  
品質政策：  
提供高優質的產

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# workholding

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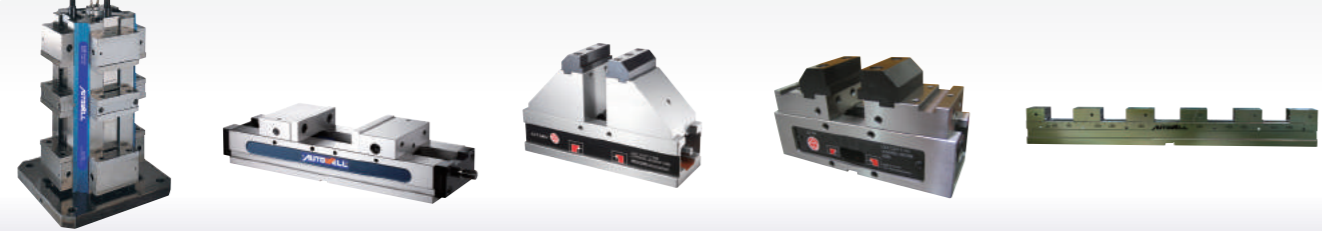
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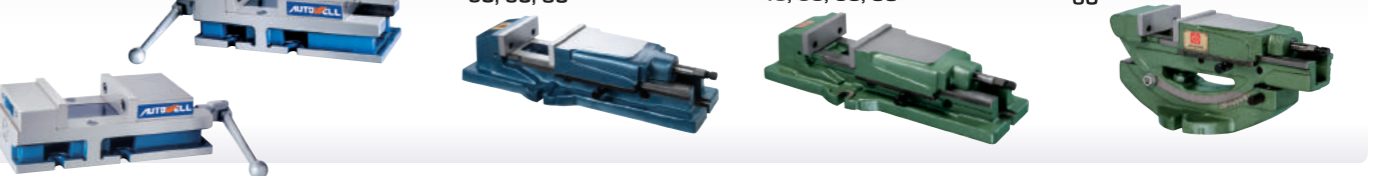
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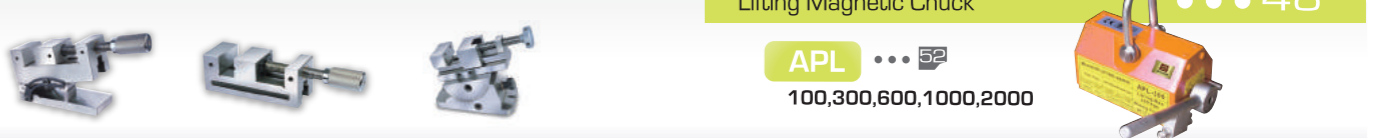
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# MC Mechanical Super Vise



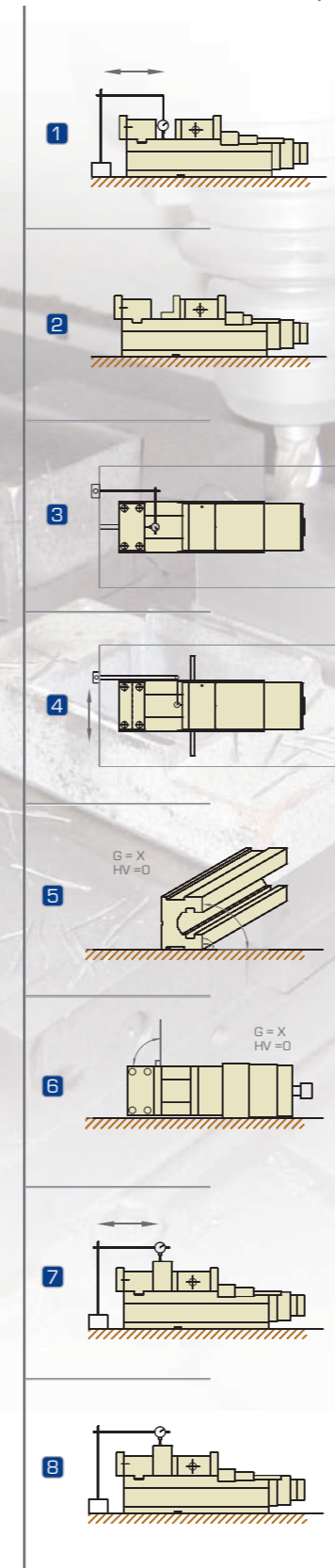
## High Clamping Force & Extra Out-jaw Clamping Capacity

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°.

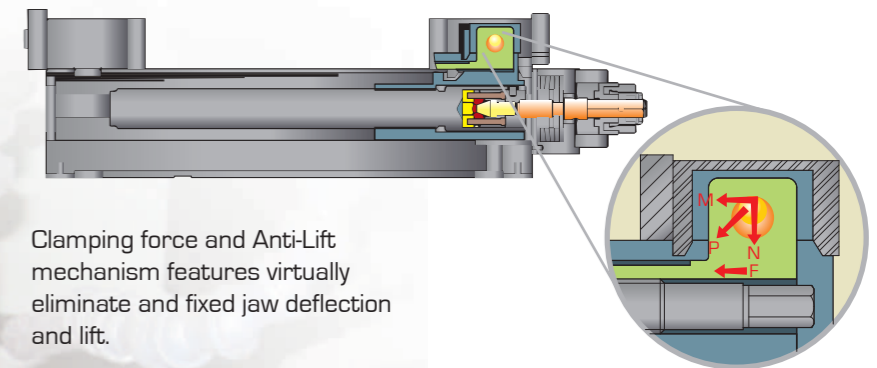


### Static Accuracy



### Lockwell Anti-Lift Mechanism

Lift can be controlled within **0.01 mm**

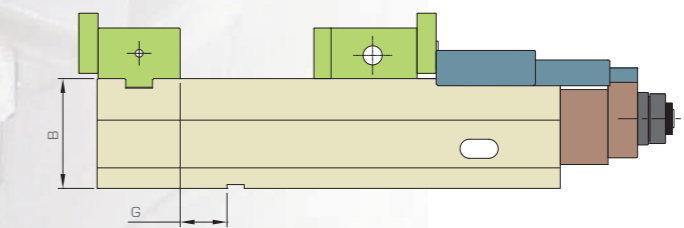


Clamping force and Anti-Lift mechanism features virtually eliminate and fixed jaw deflection and lift.

### Dimensions

B-dimension tolerance  $\pm 0.01$  mm  
G-dimension tolerance  $\pm 0.01$  mm

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



MC POWER VISE system				
NO	Inspection Items (Per 100 mm)		Allowance (mm)	
			Auto Well	JIS. Class
1	Parallelism	running face to bottom of bed	0.01	0.015
2	Squareness	between running face and jaw plate	0.01	0.03
3	Squareness	keyways on bottom of bed to jaw plate	0.015	0.015
4	Parallelism	keyways on bottom of bed to jaw plate	0.01	0.015
5	Squareness	both sides to running face	0.02	0.02
6	Squareness	both sides to fixed jaw plate	0.02	0.02
7	Parallelism	running face of the test block to bottom of bed	0.015	0.02
8	Parallelism	Lift can be controled when clamping test	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.

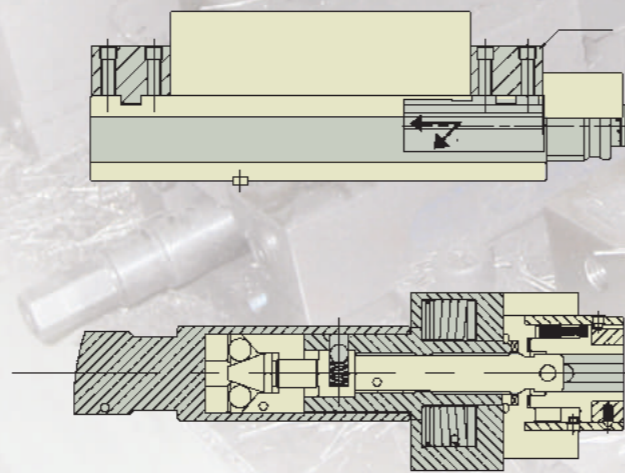
# Ultra-low height Mechanical Power Vise

## AVK-160, 200

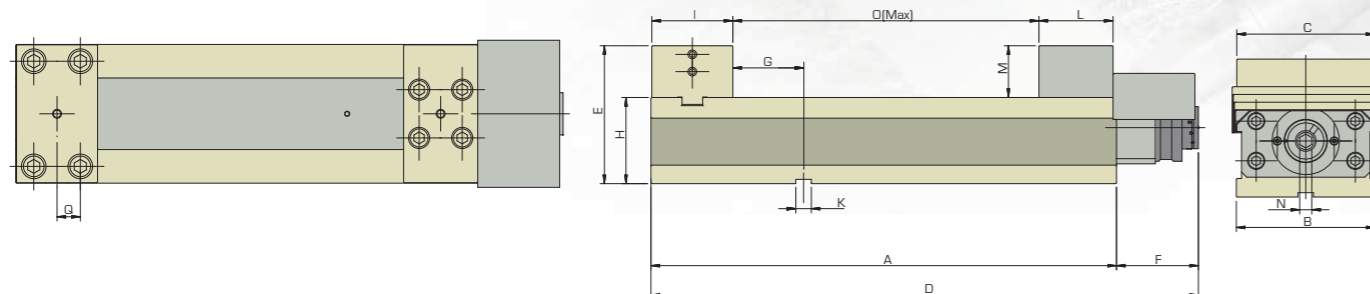
New design with ultra-low vise body and largest opening, besides, it has 3 patents: Lockwell Anti-Lift Mechanism, Mechanical Booster and Force Adjustable Function. Largest opening, high accuracy and strong rigidity for increase the efficiency and productivity.



- 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.



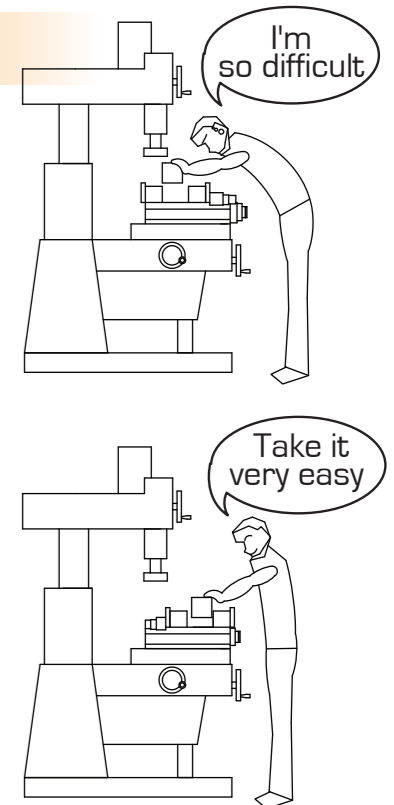
### AVK Dimensions



AVK DIMENSIONS																mm/kg	
NO	A	B	C	D	E	F	G	H	I	K	L	M	N	O	Q	Clamping Force	Weight
AVK-160	540	161	160	628	160	88	82	100	94	18	86	60	14	355	27	45KN	65kg
AVK-200	615	201	200	703	180	88	74	110	102	18	98	70	14	405	30	45KN	105kg

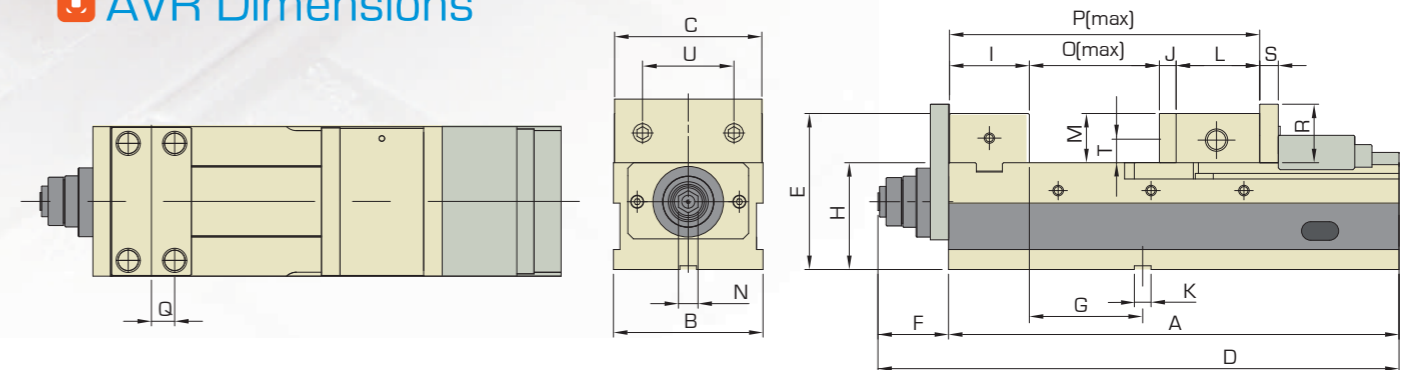
# MC Mechanical Reversed Power Vise *Workholding*

## AVR-125, 160 G/HV



- 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.

### AVR Dimensions

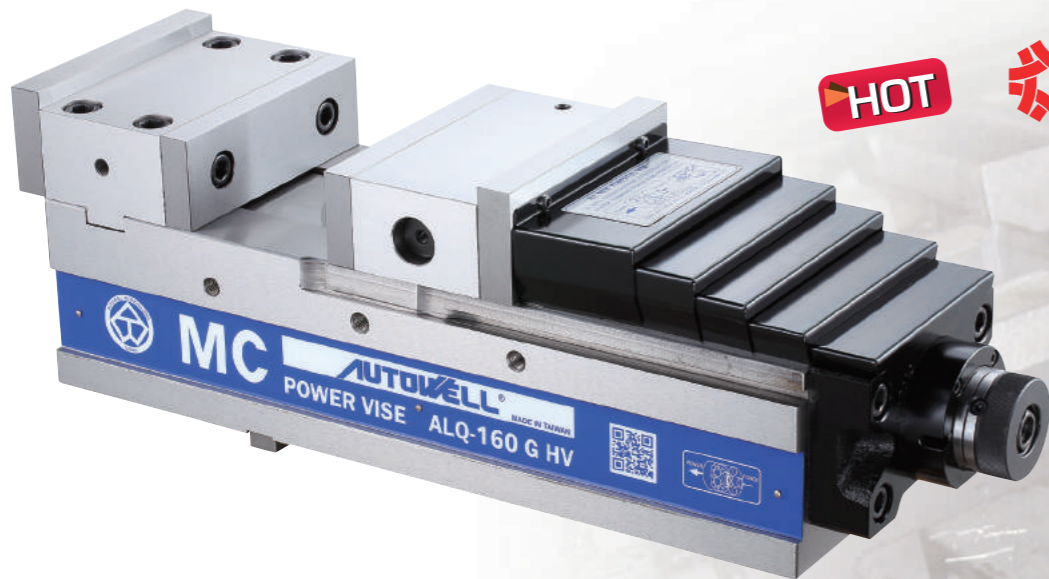


AVR DIMENSIONS																			mm/kg				
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Clamping Force	Weight
AVR-125G/HV	390	127	124.7	460	153	70	66	100	78	15	18	87.5	53	19	173	353.5	22.5	63	20	26.5	60	35 KN	46kg
AVR-160G/HV	515	161	159.5	591	168	76	76	115	86	18	18	80	53	19	289	474	25	63	20	26.5	98.4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

# MC Mechanical Long Power Vise

## ALQ-160, 200G/HV

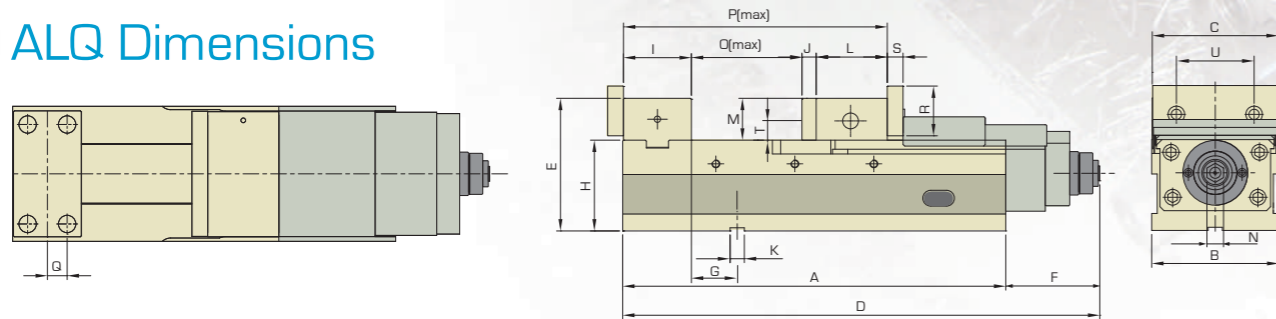
Workholding



**HOT** 台灣精品2010  
TAIWAN EXCELLENCE

- 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.

### ALQ Dimensions



ALQ DIMENSIONS																	mm/kg						
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Clamping Force	Weight
ALQ-160G/HV	515	161	159.5	603	168	88	76	115	86	18	18	80	53	19	330	514	25	63	20	26.5	98.4	45 KN	76kg
ALQ-200G/HV	585	202	199.5	673	178	88	93	120	101	18	18	95	58	19	367.5	581.5	31	73	20	29	120	50 KN	108kg

# Ultra Large Opening MC Mechanical Power Vise

## AVX-160G/HV

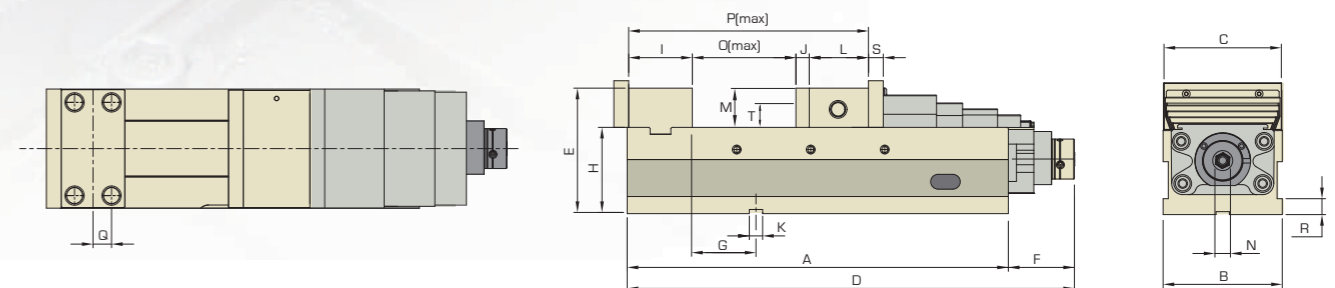
Workholding



**NEW**

- 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.

### AVX Dimensions

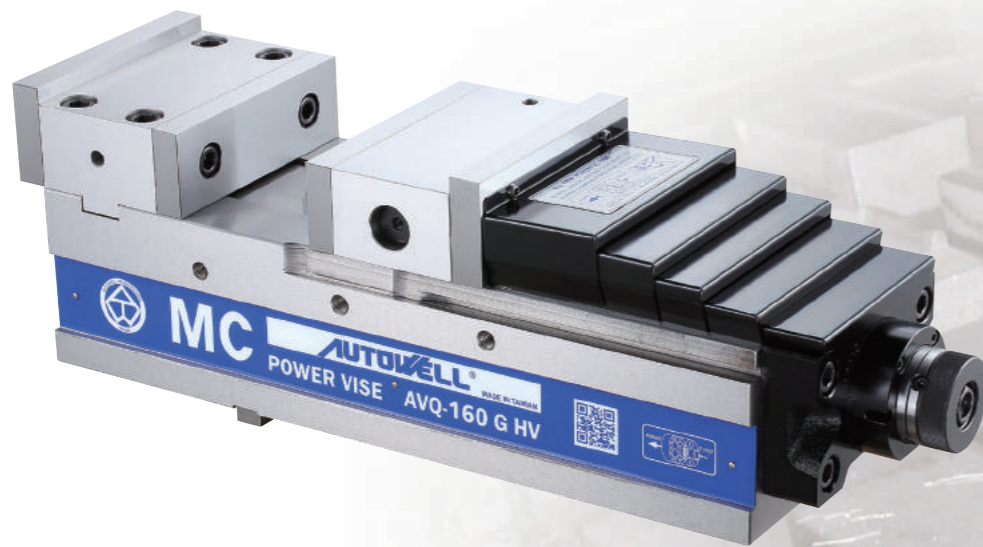


AVX DIMENSIONS																	mm/kg						
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Clamping Force	Weight
AVX-160G/HV	545	161	159.5	633	168	88	76	115	86	18	18	80	53	19	360	544	25	63	20	26.5	98.4	45KN	80kg

# MC Mechanical Power Vise

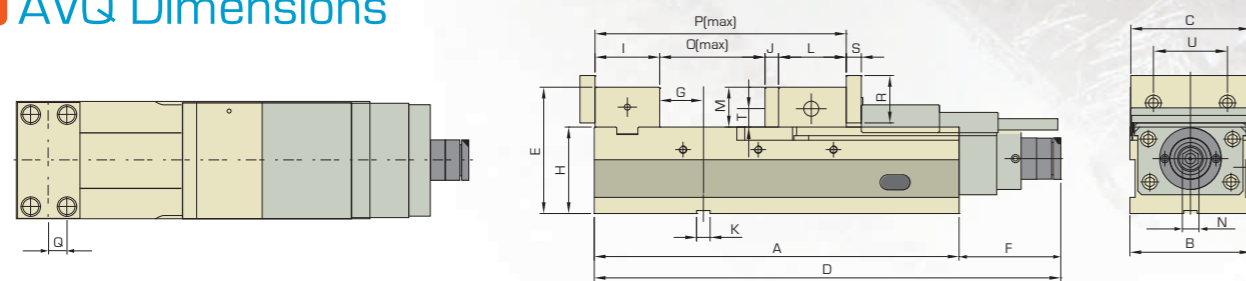
## AVQ-100, 125, 160, 200G/HV

Workholding



- 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.

### AVQ Dimensions



AVQ DIMENSIONS																				mm/kg			
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Clamping Force	Weight
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

# Wellock MC Mechanical Power Vise

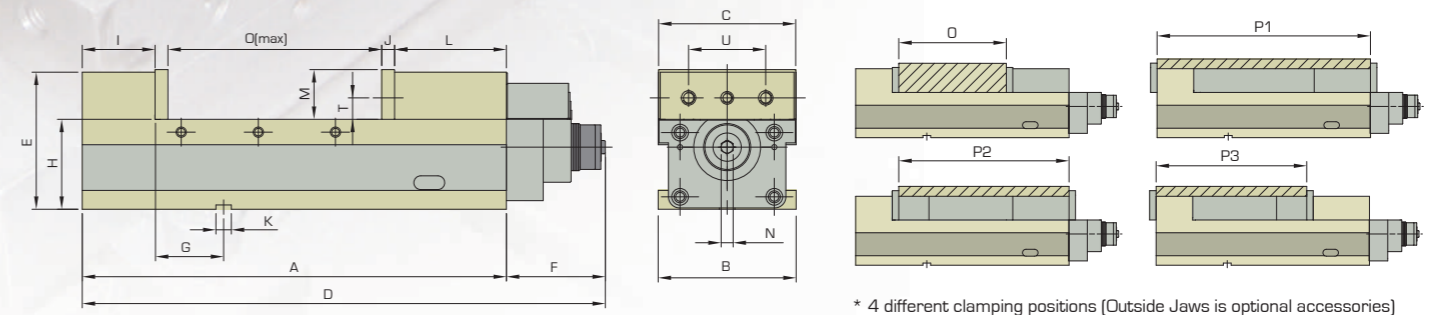
Workholding

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



- 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.

### AVM Dimensions



\* 4 different clamping positions (Outside Jaws is optional accessories)

AVM DIMENSIONS																				mm/kg		
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P1	P2	P3	T	U	Clamping Force	Weight
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	155	88	80	100	85	15	18	130	58	19	310	315-545	315-435	315-395	25	90	43KN	64kg

# Wellock MC Machine Vise

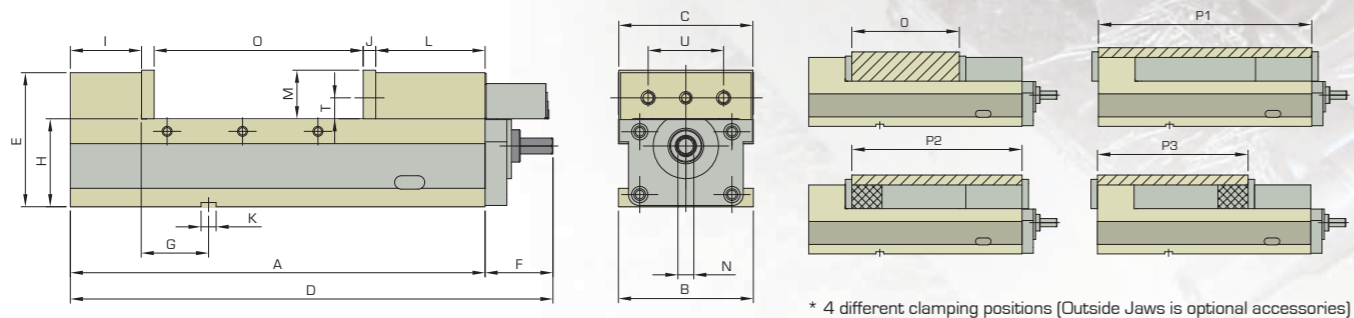
AVC-100, 130, 160, 165, 200, APC-160G/HV

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.

## AVC Dimensions

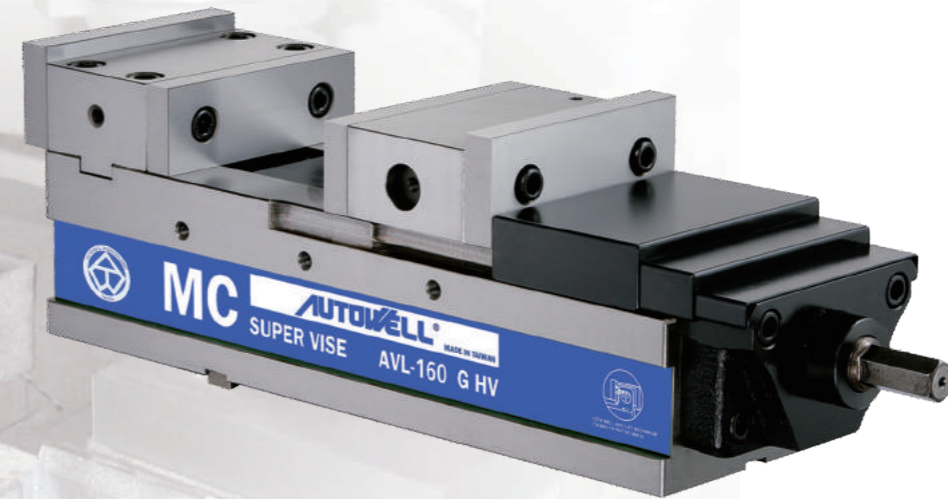


AVC DIMENSIONS																					mm/kg
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P1	P2	P3	T	U	Weight
AVC-100G/HV	350	101	100	430	130	80	45	85	65	15	18	105	48	19	150-330	150-240	150-200	22	60	21kg	
AVC-130G/HV	415	131	130	495	147	80	65	95	70	15	18	115	55	19	201-400	201-300	201-250	25	90	35kg	
AVC-160G/HV	495	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

# MC Lockwell Super Vise

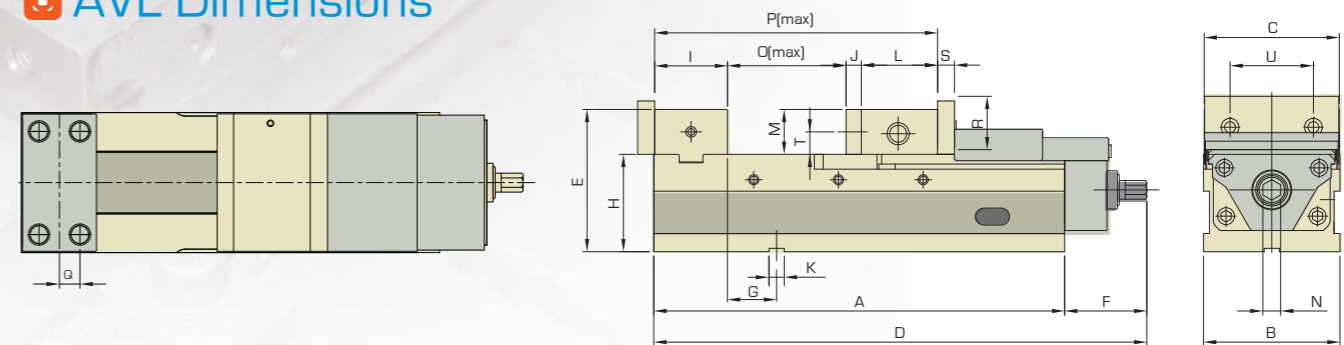
AVL-100, 125, 160, 165, 200, 235G/HV

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.

## AVL Dimensions



AVL DIMENSIONS																					mm/kg	
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	Weight
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-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



# Wellock 5 Axis Mechanical Power Vise

## AEX-125G

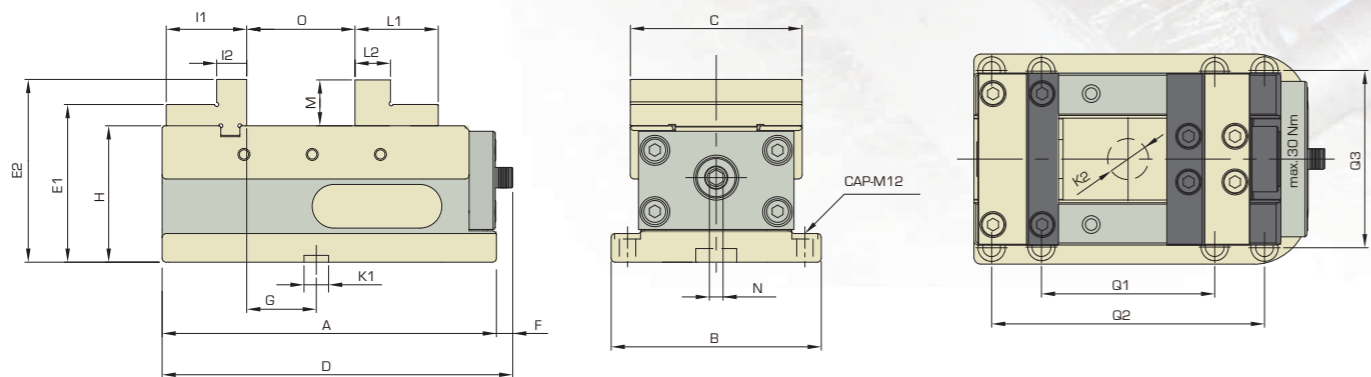
Workholding

NEW



- Steady Clamping Force!  
Built-in mechanical booster, maximum clamping force up to 40KN, 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 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 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 evacuation of chips.

### AEX Dimensions



AEX DIMENSIONS																	mm/kg							
Model	A	B	C	D	E	E1	E2	F	G	H	I1	I2	K1	K2	L1	L2	M	N	O	Q1	Q2	Q3	Force Clamping	Weight
AEX-125G	245	154	126	257	34	116	134	12	51	100	59	22	18	ø30	61	26	34	10	102	127	200	130	40KN	20kg

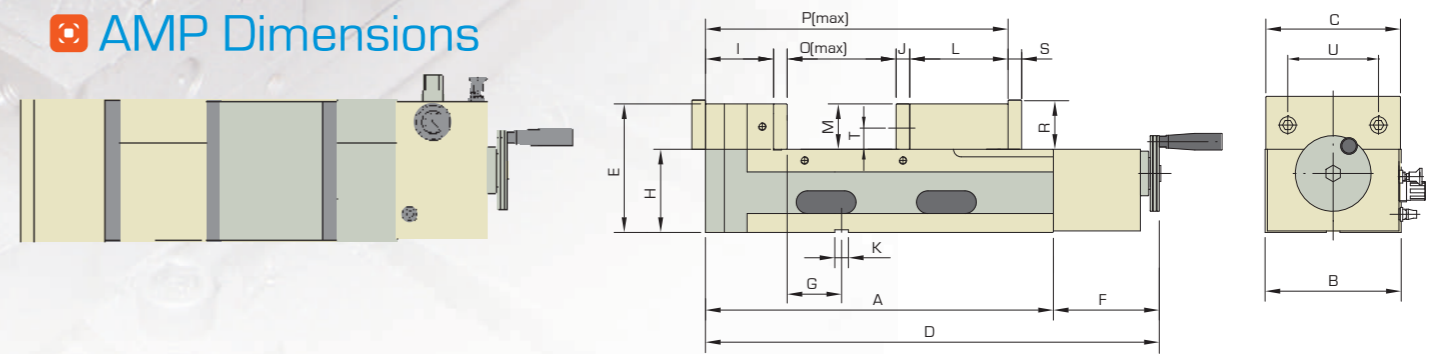
# Wellock Air Hydraulic Power Vise

## AMP



- 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/cm<sup>2</sup> 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°.

### AMP Dimensions



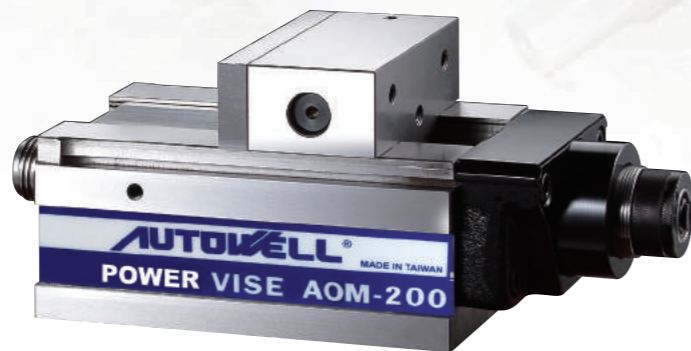
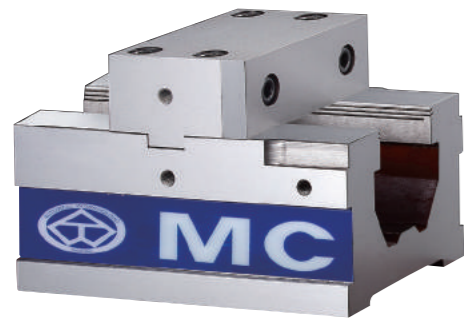
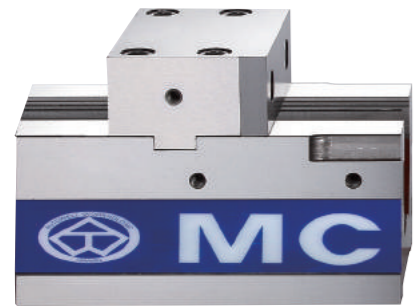
AMP DIMENSIONS																				mm/kg		
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T	U	Clamping Force	Weight
AMP-100(4")	320	100	98	435	145	140	45	100	85	15	18	105	45	-	100	200-300	55	18	22	60	32KN	32kg
AMP-150(5")	380	130	128	520	157	140	45	105	85	15	18	110	52	-	150	200-380	62	15	25	90	60KN	52kg
AMP-160(6")	400	160	158	540	160	140	45	105	87	15	18	120	55	-	160	210-400	62	15	25	90	60KN	58kg
AMP-165(6")	490	160	158	630	160	140	45	105	87	15	18	120	55	-	250	210-490	65	15	25	90	60KN	65kg
AMP-180(7")	460	180	178	600	170	140	72	110	90	18	18	130	60	-	200	220-460	70	18	28	120	90KN	75kg
AMP-200(8")	470	200	200	610	170	140	72	110	90	18	18	140	60	-	200	230-470	70	18	28	120	90KN	82kg
AMP-300(8")	570	200	200	710	170	140	72	110	90	18	18	140	60	-	300	230-570	70	18	28	120	90KN	93kg

# Extension MC Mechanical Power Vise

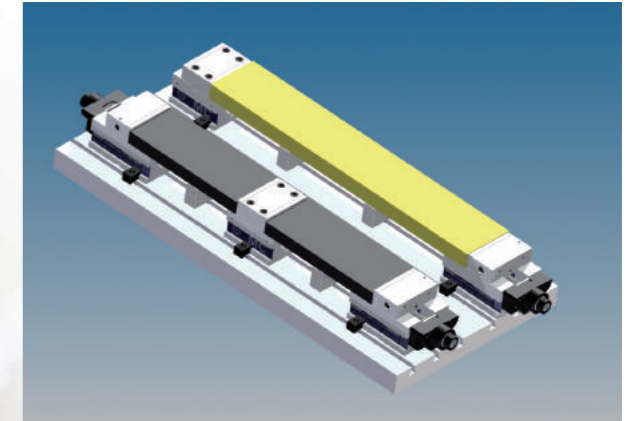
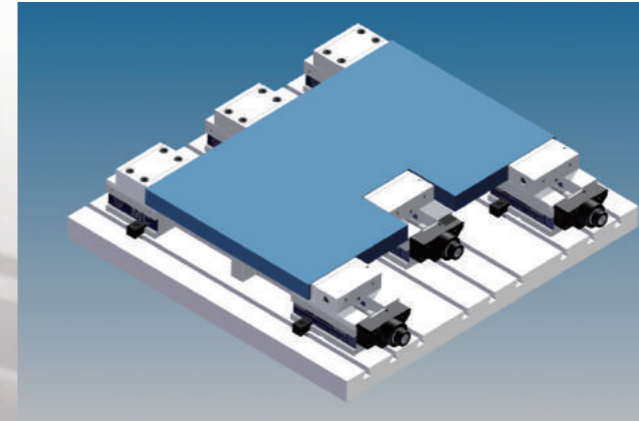
## AOM-200

Workholding

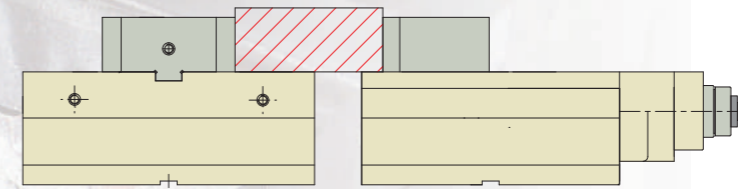
- Extension MC Mechanical Power vise with large opening and Lockwell Anti-Lift Mechanism is most suitable for BMC & VMC & HMC. This vise owns 3 patents.
- Force Adjustable System (patented) makes the force setting easier & steadier, moreover, it has constant pressure function & over pressure protection.
- 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.



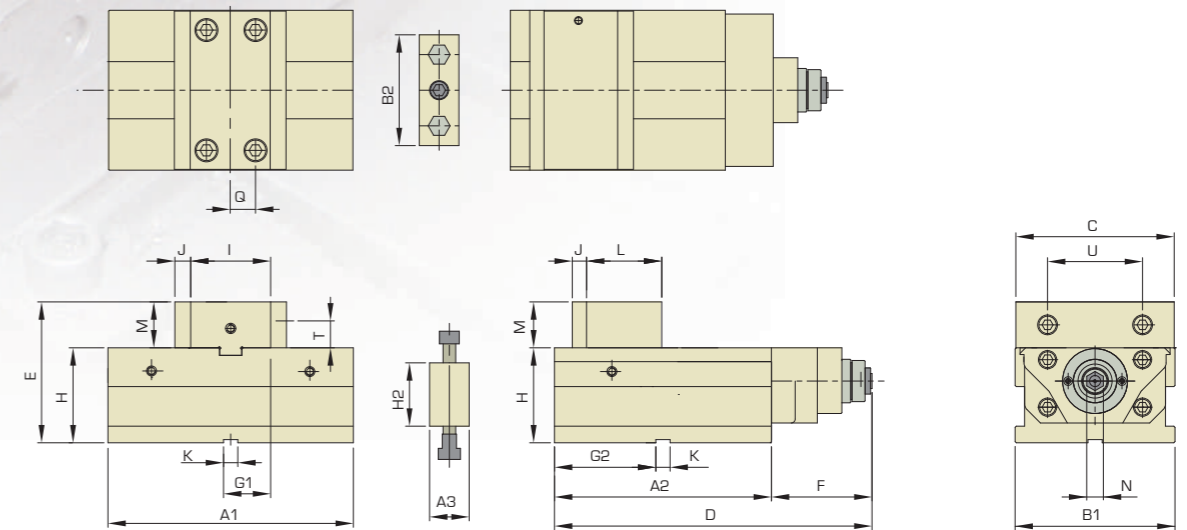
### AOM Clamping Examples



### AOM Dimensions



Min. Jaw Opening 158 ~ Limit



AOM DIMENSIONS																				mm/kg			
NO	A1	A2	A3	B1	B2	C	D	E	F	G1	G2	H	I	J	K	L	M	N	Q	T	U	Clamping Force	Weight
AOM-200	210	270	50	202	140	199.5	398	178	128	59.5	126	120	101	18	18	95	58	19	31	29	120	50KN	95kg

# Lockwell Double Station Vise



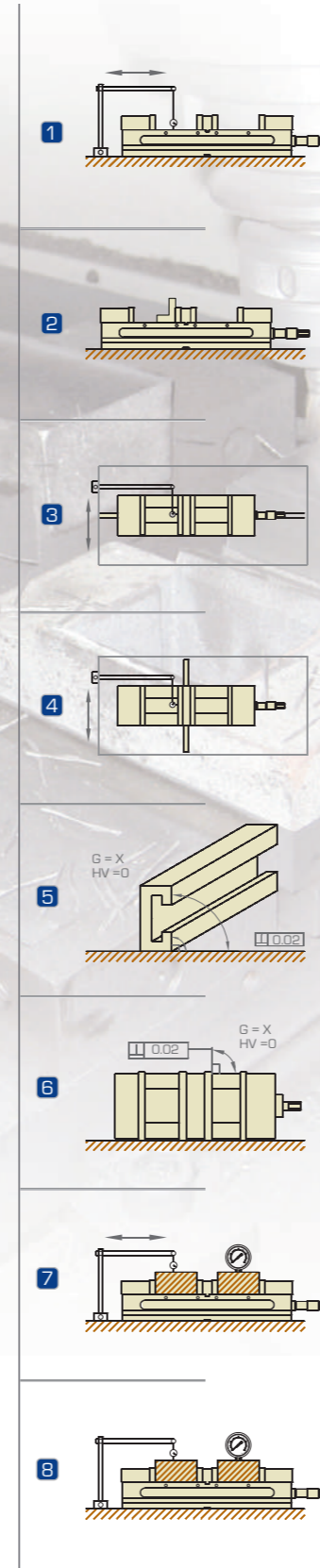
## Clamping Force Equalization & Automatically Return Mechanism

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.

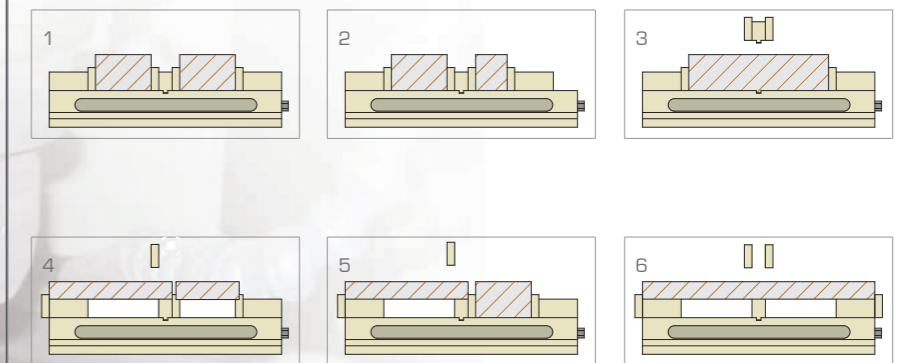
- Double station could clamp two dissimilar workpieces with same force at a time and provides 6 different clamping positions.
- Clamping Force Equalization (patented) ensures same clamping force to clamp two different size/shape workpieces.
- Automatically Return Mechanism (patented) save the work change time.
- Lockwell Anti-Lift Mechanism (patented) ensures the workpiece does not deflect and lift.



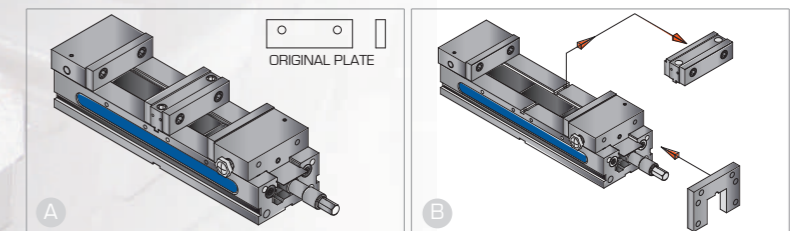
### Static Accuracy



### 6 Different Clamping Positions



### Change Sample of Station



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").

DOUBLE CLAMP VISE system				
NO	Inspection Items (Per 100 mm)		Allowance (mm)	
			Auto Well	JIS. Class
1	Parallelism	running face to bottom of bed	0.01	0.015
2	Squareness	between running face and jaw plate	0.01	0.03
3	Squareness	keyways on bottom of bed to jaw plate	0.015	0.02
4	Parallelism	keyways on bottom of bed to jaw plate	0.01 for total jaw height	0.02
5	Squareness	both sides to running face	0.02	0.02
6	Squareness	both sides to fixed jaw plate	0.02	0.02
7	Parallelism	running face of the test block to bottom of bed	0.015	0.02
8	Parallelism	lift can be controled when clamping test	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.

# NEW Lockwell Double Station Vise

## TLD-40, 60G/HV *Workholding*

# Lockwell Double Station Vise

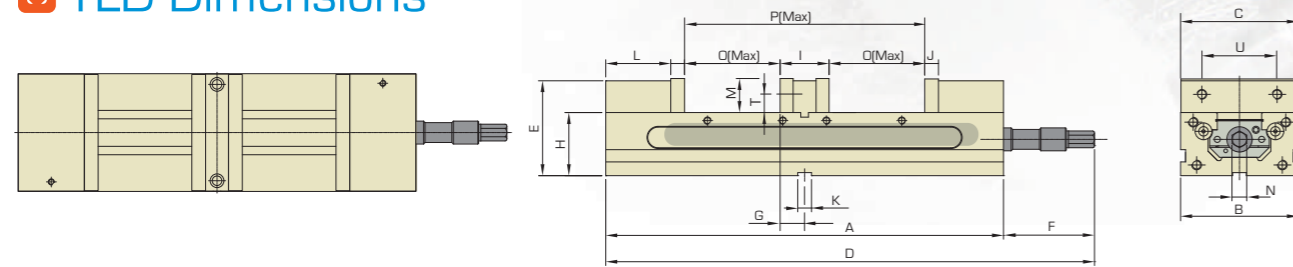
## ALD-60G/HV *Workholding*



- 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.

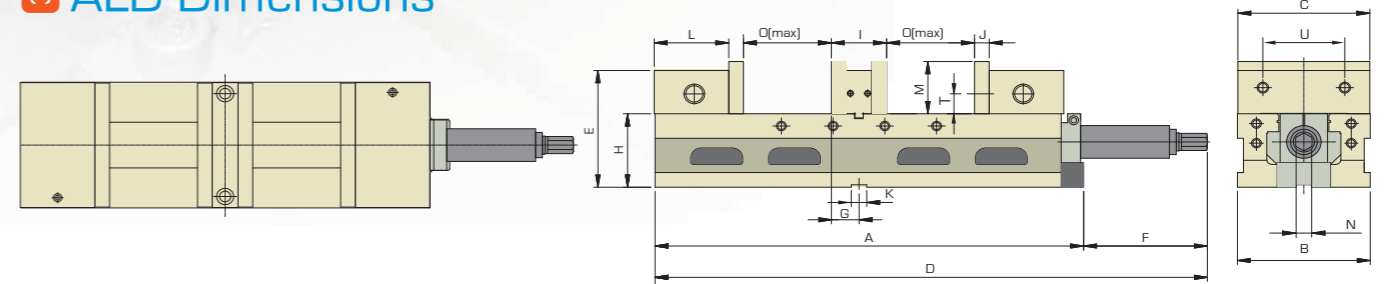
- Double station could clamp two dissimilar workpieces with same force at a time and provides 6 different clamping positions.
- Clamping Force Equalization (patented) ensures same clamping force to clamp two different size/shape workpieces and avoid deflection and lift.
- Lockwell Anti-Lift Mechanism (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°.

### TLD Dimensions



TLD DIMENSIONS																	mm/kg		
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	T	U	Weight
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 Dimensions



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

# Lockwell Double Station Tower Vise

# Lockwell Self-centering Machine Vise

## HLD-60G/HV

## TLR

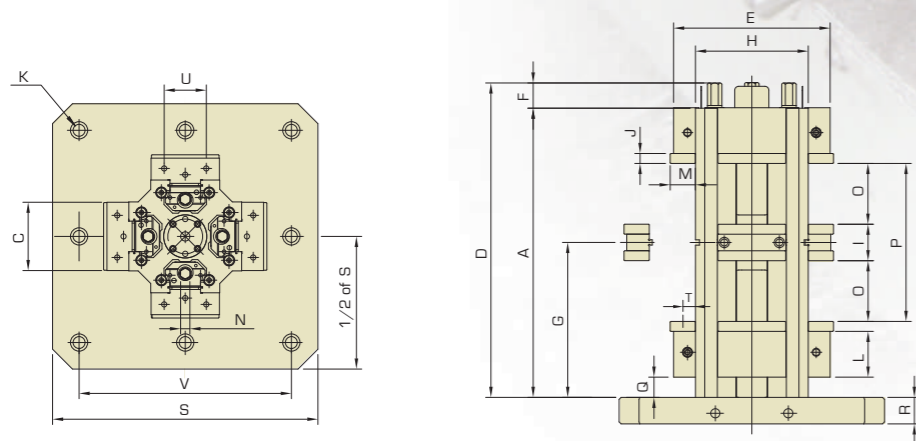
TLR Tower Vises is formed with four Double Station Vises. it provides eight stations and feature a cast iron integral vise tower. Towering designed is maximized update utilization and productivity for machining centers.

### Workholding

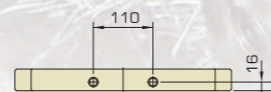
- Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body.
- TLR vise tower incorporate 4 double station vises to clamp 8 dissimilar workpieces. Sub-bases are matched to table with center or edge locators for quick change.
- No timing problem. Designed to automatically return to the position you set.
- The improved chip cover mechanism prevents the rust and extends the lifetime.



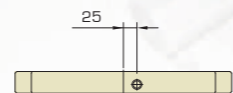
### TLR Dimensions



Flat Front View



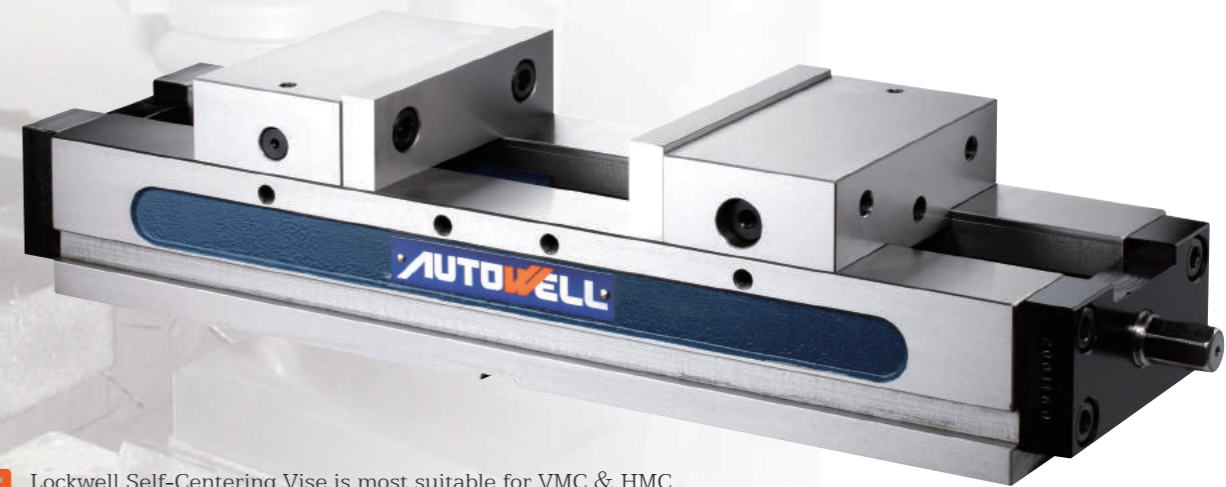
Flat Right View



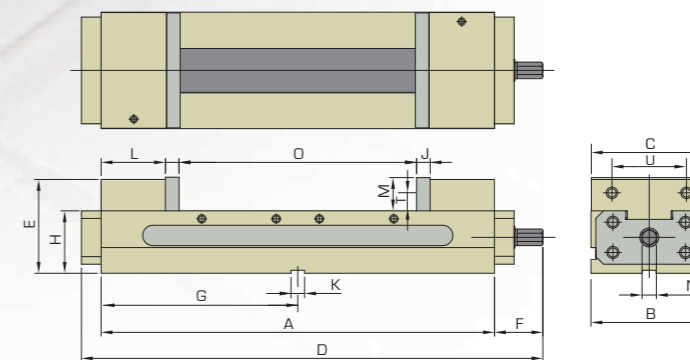
TLR DIMENSIONS																				mm/kg					
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Weight
TLR4400	425	-	102	479	256	54	222.5	190	55	15	ø18	69	38	14	90	235	20	40	400	17.5	63.5	320	-	-	200kg
TLR4500	425	-	102	479	256	54	222.5	190	55	15	ø18	69	38	14	90	235	20	40	500	17.5	63.5	400	-	-	210kg
TLR6400	540	-	152	556	313	16	280	230	66	18	ø18	86.5	44.5	19	125	326	20	40	400	23.8	98.4	320	-	-	240kg
TLR6500	540	-	152	556	313	16	280	230	66	18	ø18	86.5	44.5	19	125	326	20	40	500	23.8	98.4	400	-	-	250kg

### Workholding

- Lockwell Self-Centering Vise is most suitable for VMC & HMC.
- Tolerance of center of workpiece clamp position and vise body within 0.01mm.
- 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°.



### HLD Dimensions



HLD DIMENSIONS																	mm/kg	
NO	A	B	C	D	E	F	G	H	J	K	L	M	N	O	T	U	Weight	
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	

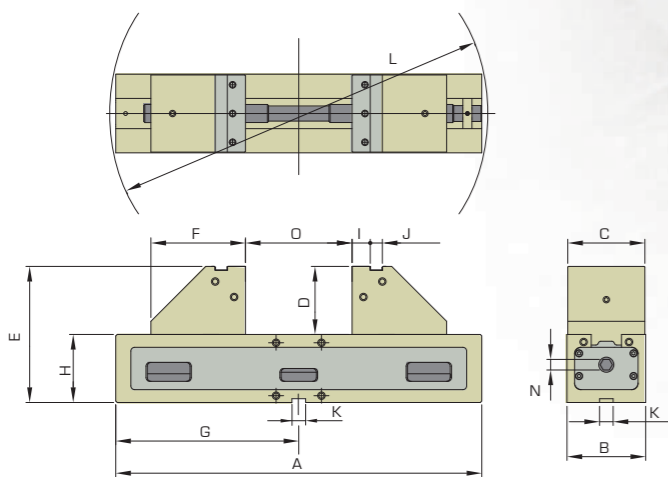
# Wellock 5 Axis Machine Vise

## ALT Series

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 FCD-60 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-100 Dimensions



ALT-100 DIMENSIONS																	mm/kg		
NO	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P1	P2	P3	Clamping Force	Weight
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

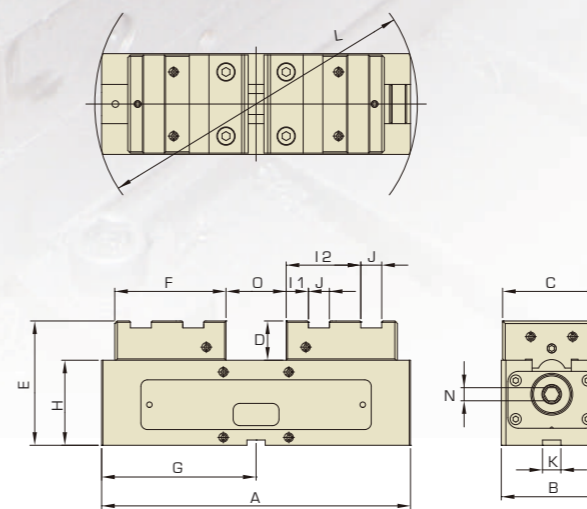
# Wellock 5 Axis Machine Vise

## ALT Series

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-75 Dimensions

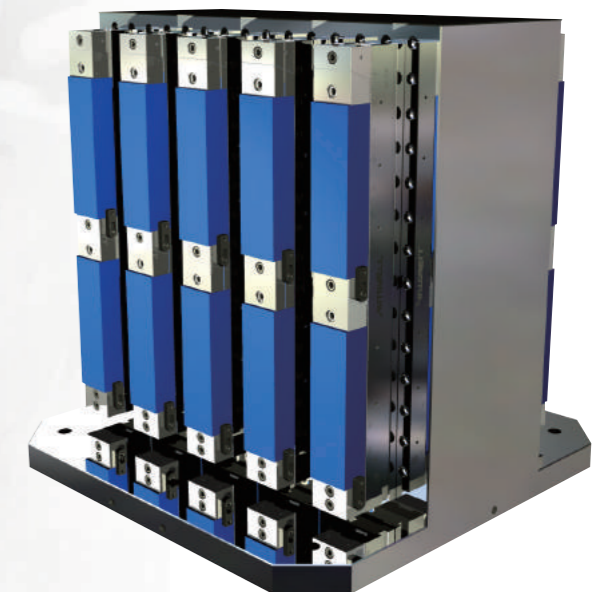
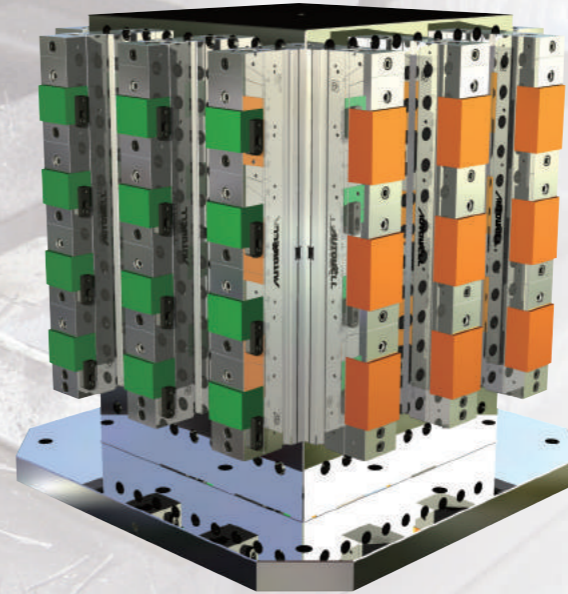
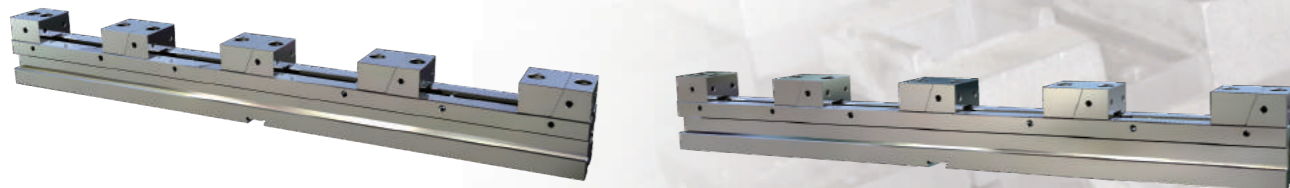
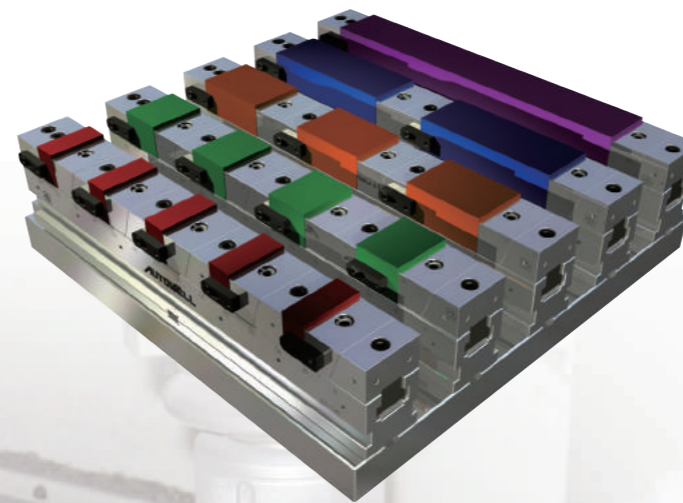


ALT-75 DIMENSIONS																	mm/kg			
NO	A	B	C	D	E	F	G	H	I1	I2	J	K	L	N	O	P1	P2	P3	Clamping Force	Weight
ALT-75S	196	77	75	30	95	85	98	65	17	57	16	14	210	10	30	-	26	106	20KN	8kg
ALT-75M	236	77	75	30	95	85	118	65	17	57	16	14	250	10	70	40	66	146	20KN	10kg

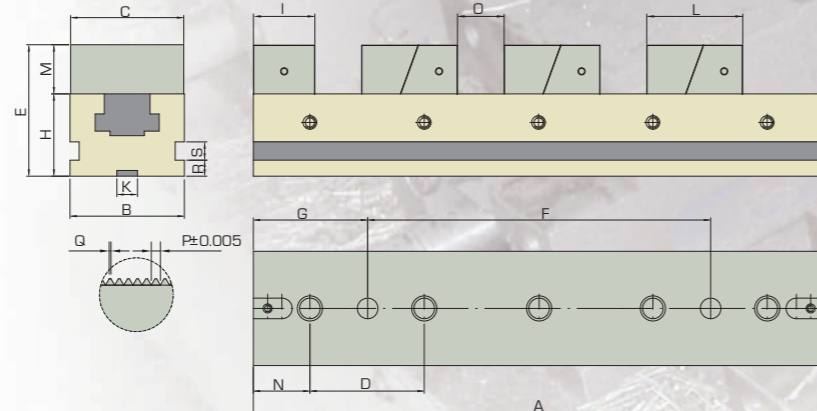
# Flexible Well Vise

## ALG

*Workholding*



### ALG Dimensions



ALG DIMENSIONS																		
NO	A	B	C	D	E	F	G	H	I	K	L	M	N	O	P	Q	R	S
ALG5030	300	50	49	100	75	100	100	50	36	18	60	24.8	50	30	1.5	0.5	10	12
ALG5040	400	50	49	100	75	200	100	50	36	18	60	24.8	50	33	1.5	0.5	10	12
ALG5050	500	50	49	100	75	300	100	50	36	18	60	24.8	50	35	1.5	0.5	10	12
ALG5060	600	50	49	100	75	400	100	50	36	18	60	24.8	50	36	1.5	0.5	10	12
ALG5070	700	50	49	100	75	500	100	50	36	18	60	24.8	50	37	1.5	0.5	10	12
ALG7240	400	72	71	100	110	200	100	72	48	18	82	39.7	50	38	2.0	0.7	14	16
ALG7250	500	72	71	100	110	300	100	72	48	18	82	39.7	50	33	2.0	0.7	14	16
ALG7260	600	72	71	100	110	400	100	72	48	18	82	39.7	50	31	2.0	0.7	14	16
ALG7270	700	72	71	100	110	500	100	72	48	18	82	39.7	50	29	2.0	0.7	14	16
ALG10050	500	100	99	100	120	300	100	72	48	18	93	43.3	50	25	2.5	1	14	16
ALG10060	600	100	99	100	120	400	100	72	48	18	93	43.3	50	34	2.5	1	14	16
ALG10070	700	100	99	100	120	500	100	72	48	18	93	43.3	50	32	2.5	1	14	16

NO	Maximum Clamping Range						
	1 Workpiece	2 Workpieces	3 Workpieces	4 Workpieces	5 Workpieces	6 Workpieces	7 Workpieces
ALG5030	206	74	30	-	-	-	-
ALG5040	306	124	63	33	-	-	-
ALG5050	406	174	97	58	35	-	-
ALG5060	506	224	130	83	55	36	-
ALG5070	606	274	163	108	75	53	37
ALG7240	272	96	38	-	-	-	-
ALG7250	372	146	71	33	-	-	-
ALG7260	472	196	104	58	31	-	-
ALG7270	572	246	135	83	51	29	-
ALG10050	364	138	63	25	-	-	-
ALG10060	464	188	96	50	34	-	-
ALG10070	564	238	130	75	54	32	-

# Aluminum Double Station Vises

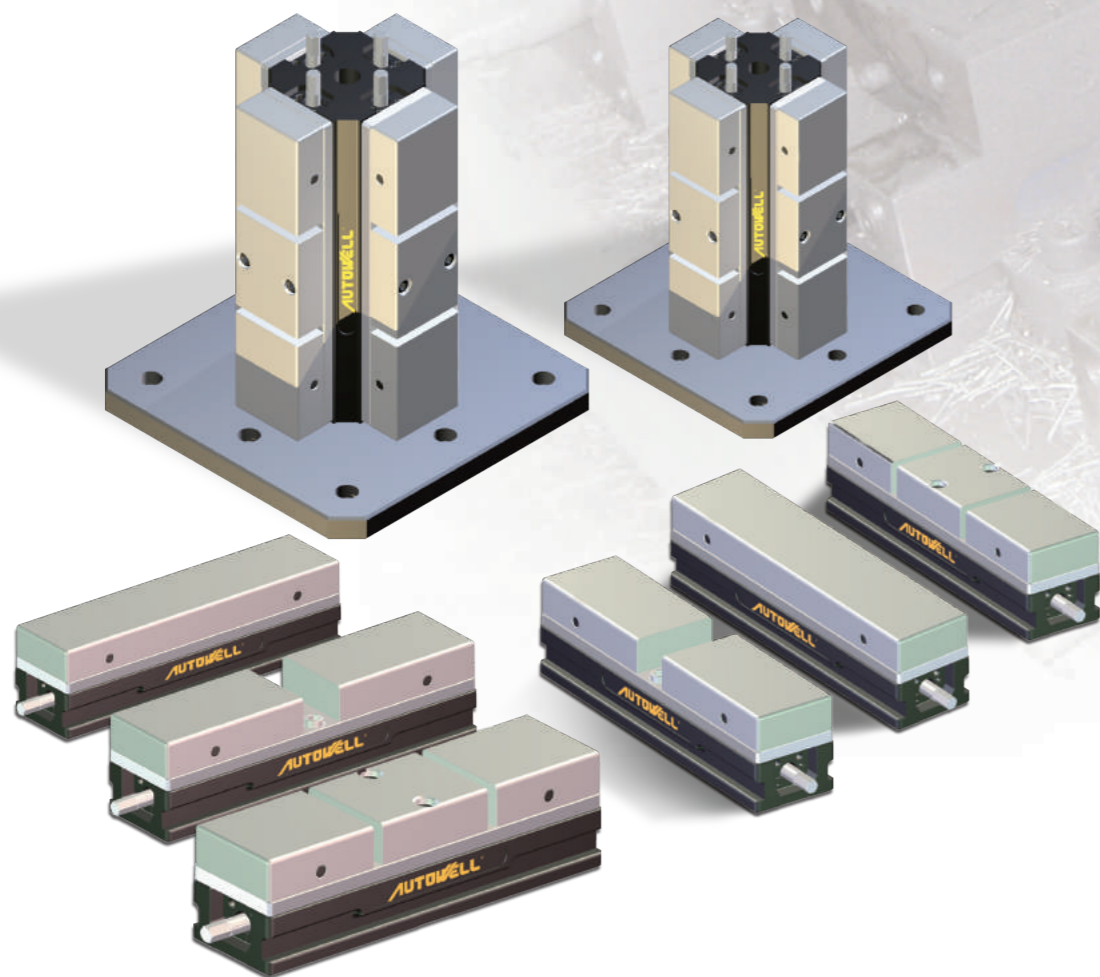
AQS

Workholding

## Light, Steady and Flexible

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.

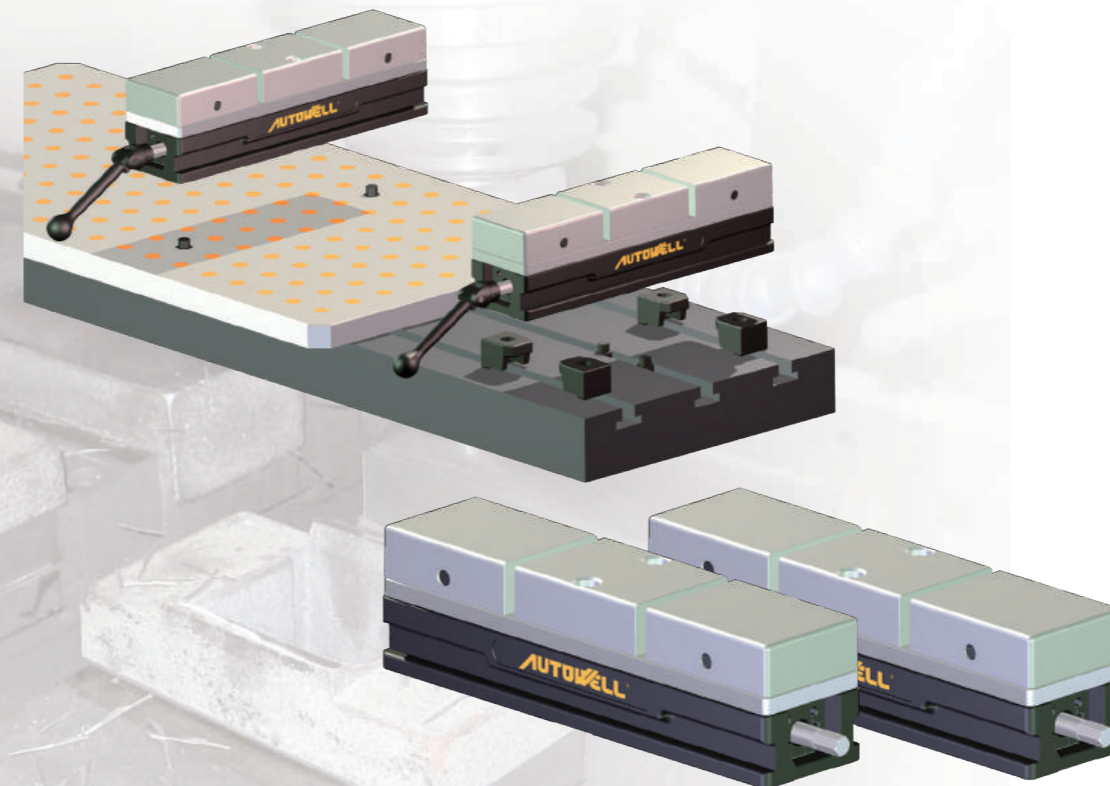
- High-grade aluminum body combines with an alloy steel cover plate enhances base strength and absorbs any machining vibrations.
- Quick changed soft-jaws for multiple machining jobs.
- Clamping force equalization ensures same force while machining two different size workpieces.
- Adjustable Automatically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



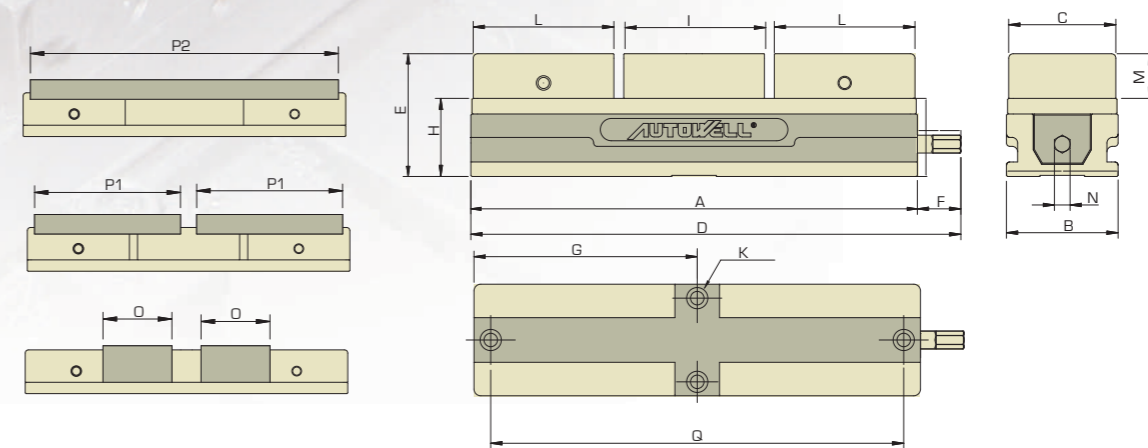
# Lockwell Aluminum Vises

AQS-1040, 1250

Workholding



## AQS Dimensions



NO	AQS DIMENSIONS																mm/kg	
	A	B	C	D	E	F	G	H	I	K	L	M	N	O	P1	P2	Q	
AQS-1040	400	100	96	439	110	39	200	70	126	ø20	126	40	14	85	180	380	370	
AQS-1250	500	125	121	539	134	39	250	84	157.6	ø20	157.5	50	14	112	225	480	460	



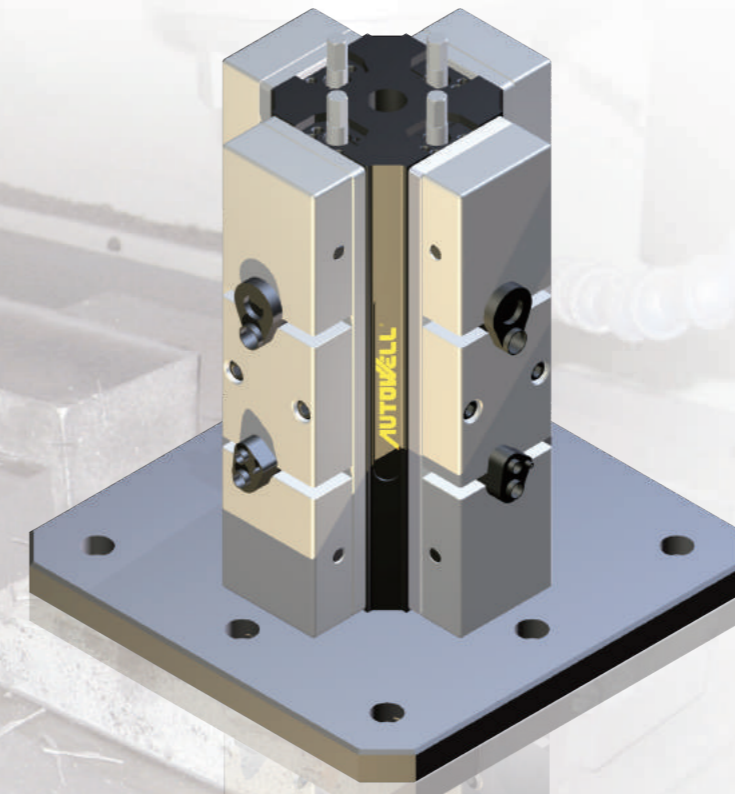
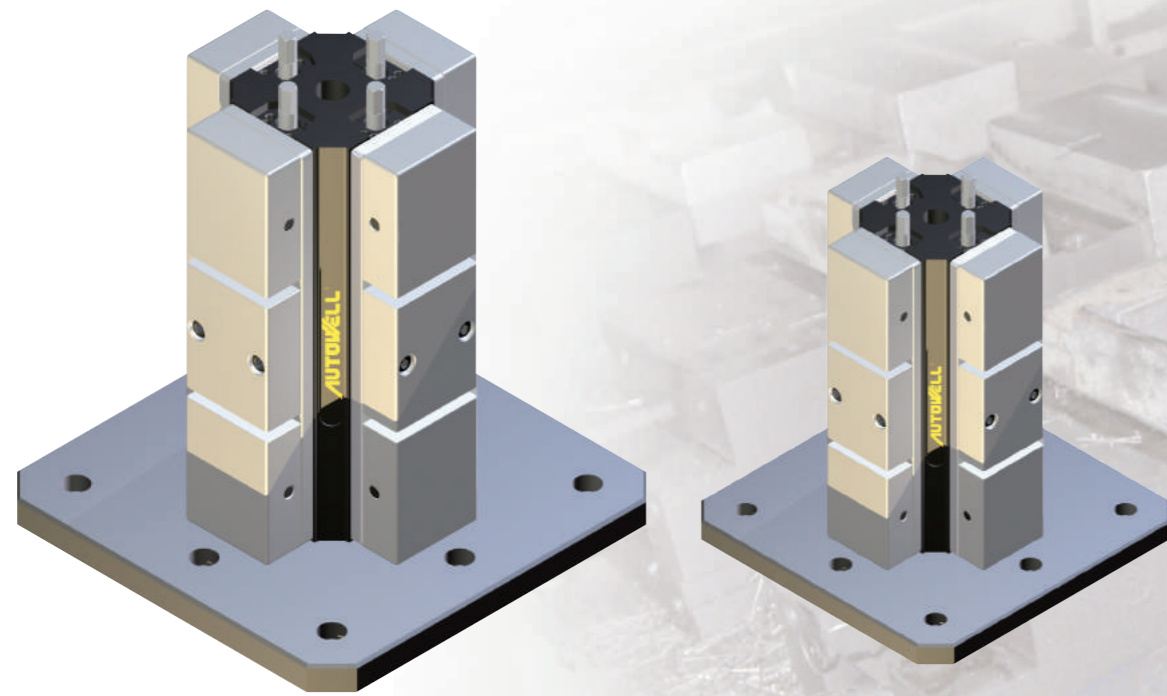
# Tombstone Aluminum Vises

## AQS-1040, 1250-4B

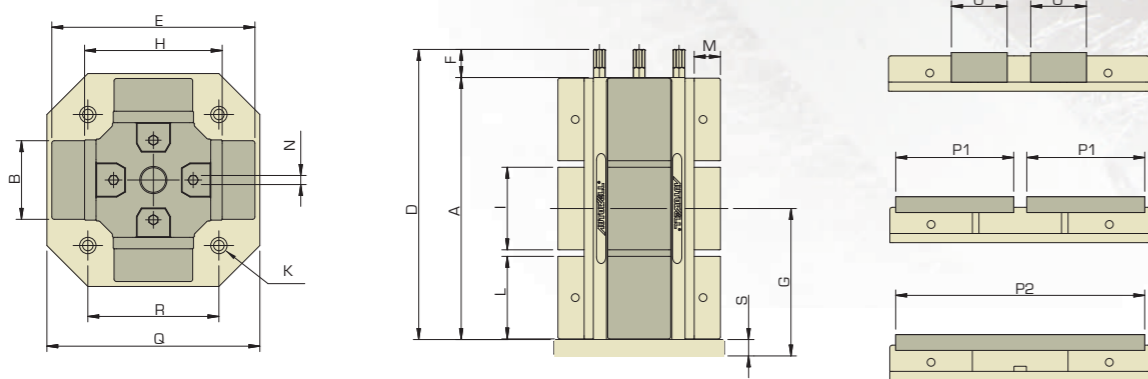
# Clamping Examples

## VMC, HMC

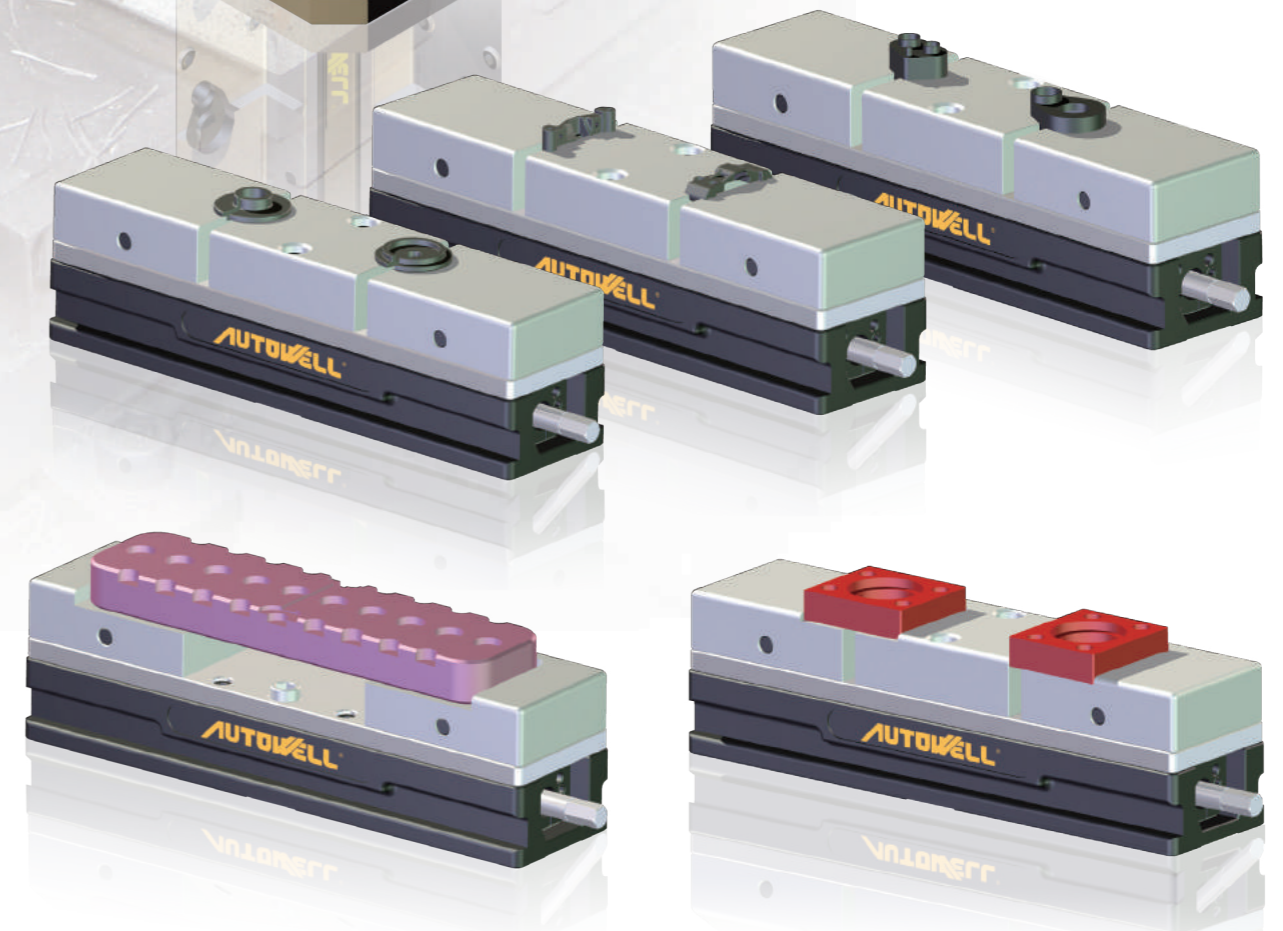
Workholding



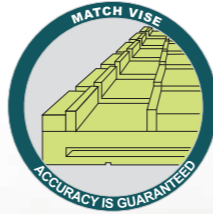
### 📏 AQS-4B Dimensions



AQS DIMENSIONS																		mm/kg	
NO	A	B	C	D	E	F	G	H	I	K	L	M	N	O	P1	P2	Q	R	S
AQS-1040-4B	400	100	-	439	248	39	225	168	126	∅18	126	40	14	85	180	380	260	160	25
AQS-1250-4B	500	125	-	539	310	39	280	210	157.5	∅18	157.5	50	14	112	225	480	320	240	25



# Wellock Large Opening Vise



World Famous & High Accuracy & Best Quality & Large Opening

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.

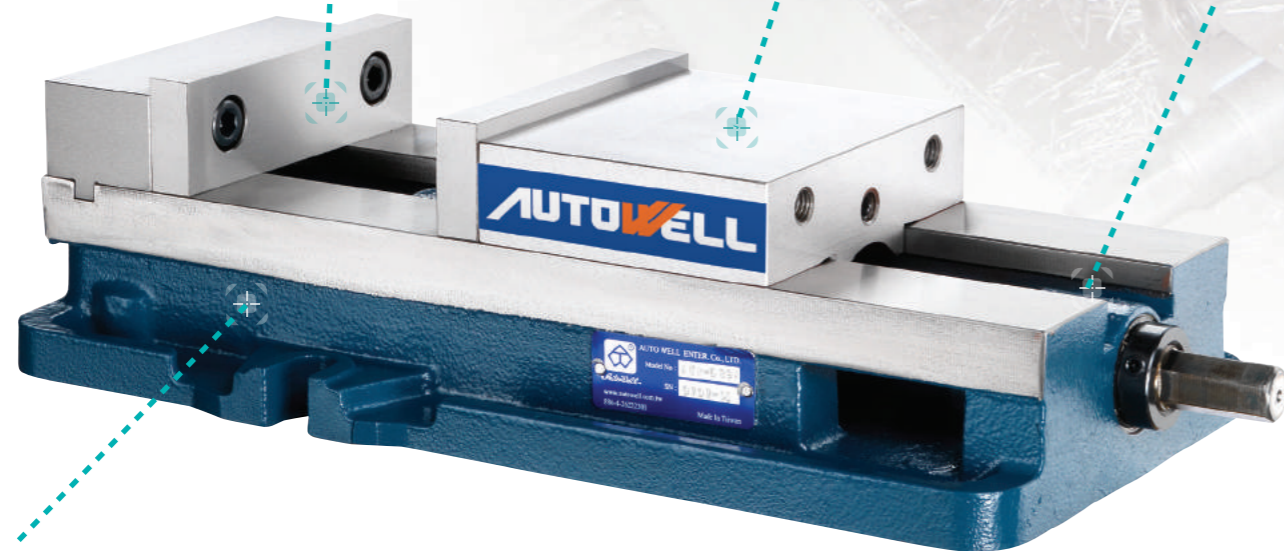
- Wellock Semi-spherical segment eliminate deflection and lift.
- Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened to HS65° to maintain the accuracy. S50C jaw-plate has been Carburizing heat treated the hardness to HRC54°.
- 4 different clamping positions.
- Bearing system has sealed and special treated to reduce damage for extend the lifetime.
- 8,200lbs high clamping force.

8,200lbs Clamping Force

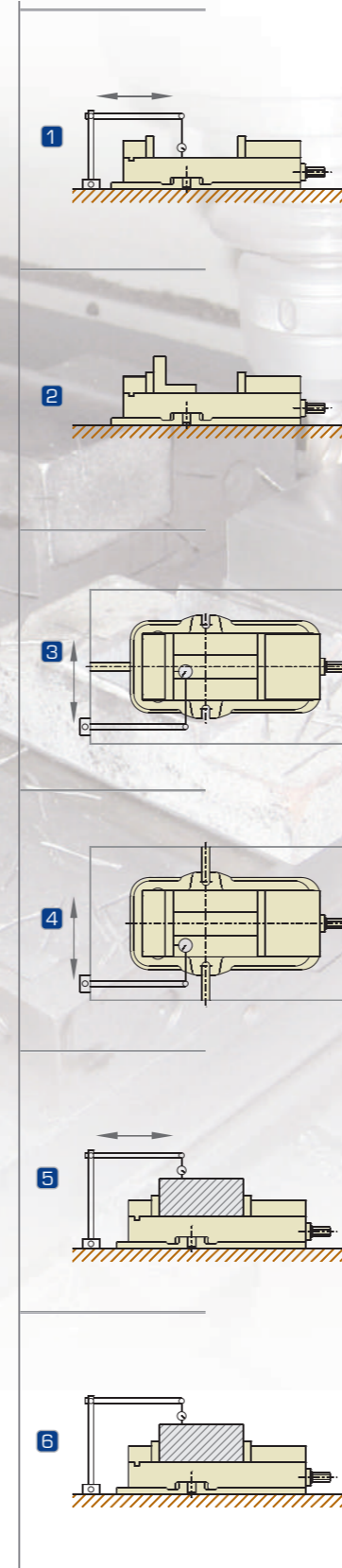
Wellock Anti-Lift Mechanism

Sealed Bearing System

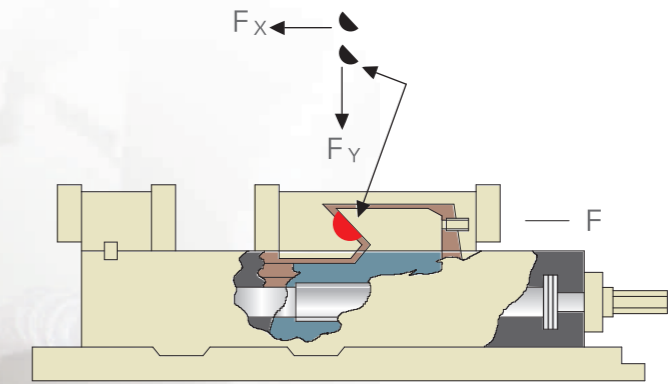
Ductile Iron Body



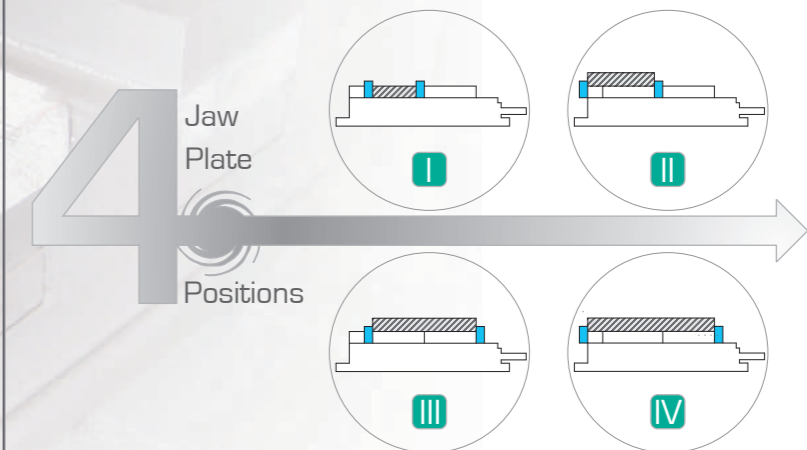
## Static Accuracy



## Wellock Anti-Lift Mechanism



## 4 Jaw-plate Positions



Wellock VISE System				
NO	Inspection Items (Per 100 mm)		Allowance [mm]	
			Auto Well	JIS. Class
1	Parallelism	running face to bottom of bed	0.01	0.015
2	Squareness	between running face and jaw plate	0.01	0.03
3	Squareness	keyways on bottom of bed to jaw plate	0.015	0.015
4	Parallelism	keyways on bottom of bed to jaw plate	0.01	0.015
5	Squareness	both sides to running face	0.015	0.02
6	Squareness	both sides to fixed jaw plate	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.

# Wellock Large Opening Vise

## ATW-689/810

Workholding



689

### ATW-689

- 8.9" large opening.
- Spindle nut does not protrude past the end of body.
- Same distance from keyway to stationary jaw with AT-675.
- Bed height 73.025±0.012mm (2.875±0.001").

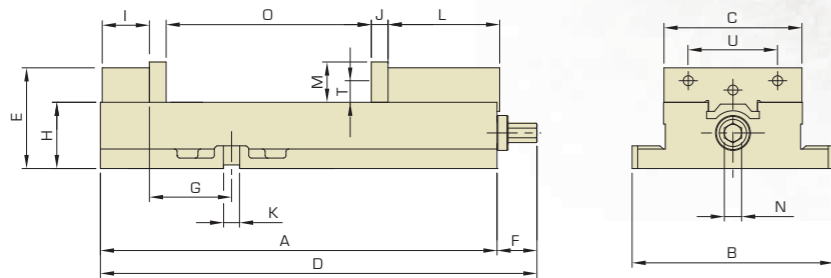


810

### ATW-810

- Updated body from AT-80, it provides 10" large opening and steadier vise body.
- Bed height 84.074±0.012mm (3.26±0.001").
- 11,600lbs clamping force.

### ATW-689/ 810 Dimensions



ATW DIMENSIONS																	mm/kg	
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	Weight
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

# Wellock Vise

## ATW-675 ATD-460/570

Workholding



ATD-460/570

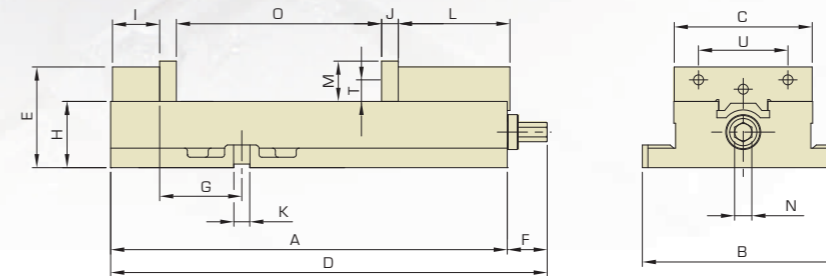


675

### ATW-675

- 7.5" opening.
- Bed height 73.025±0.012mm (2.875±0.001").

### ATW-675, ATD-460/570 Dimensions



ATW/ATD DIMENSIONS																		mm/kg	
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	Weight	
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	

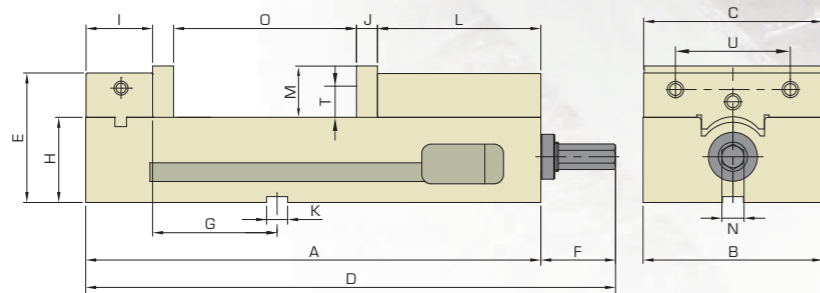
# Lockwell Machine Vise AMC-40, 50, 60, 689G/HV

Workholding

- 2 operate positions for VMC: Upright and Lay down.
- Material of AMC: FCD-60.



## AMC Dimensions



AMC DIMENSIONS																mm/kg		
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	Weight
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	134	53	90.5	73.025	52	18	18	123	44.5	19	226	23.8	98.4	36.5kg

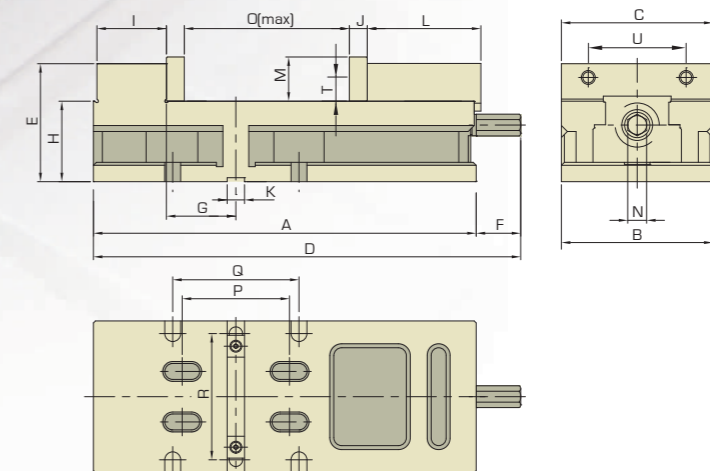
# Wellock Versatile Vise MG, MGR-40, 60G

Workholding

- 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.



## MG Dimensions



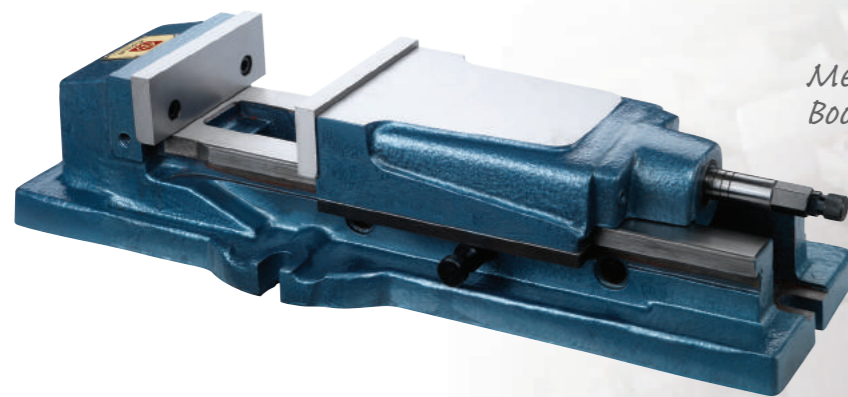
MG DIMENSIONS																			mm/kg		
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	T	U	Weight
MG, MGR-40G	316	104	102	344	92	28	63.5	63.5	50.8	15	12.7	100	35	14	130	85	101.6	80	17.5	63.5	20kg
MG, MGR-60G	385	152.45	151	431.8	118.7	46.8	69.85	81	69.9	18	18	114.3	44.5	19	163	107.95	127	127	23.8	98.4	31kg

# Mechanical Power Machine Vise

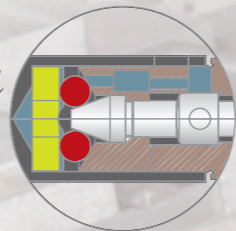
## MP-50, 60, 80

*Workholding*

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.

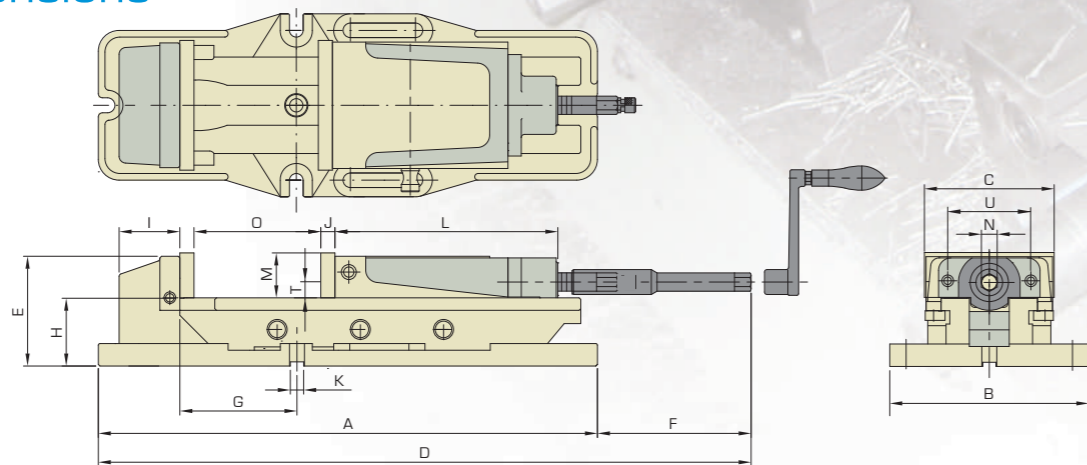


Mechanical Booster



- 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.

### MP Dimensions



MP DIMENSIONS																		mm/kg		
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	T	U	Clamping force	Weight
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

# Hydraulic Power Machine Vise

## HP-40, 50, 60, 80

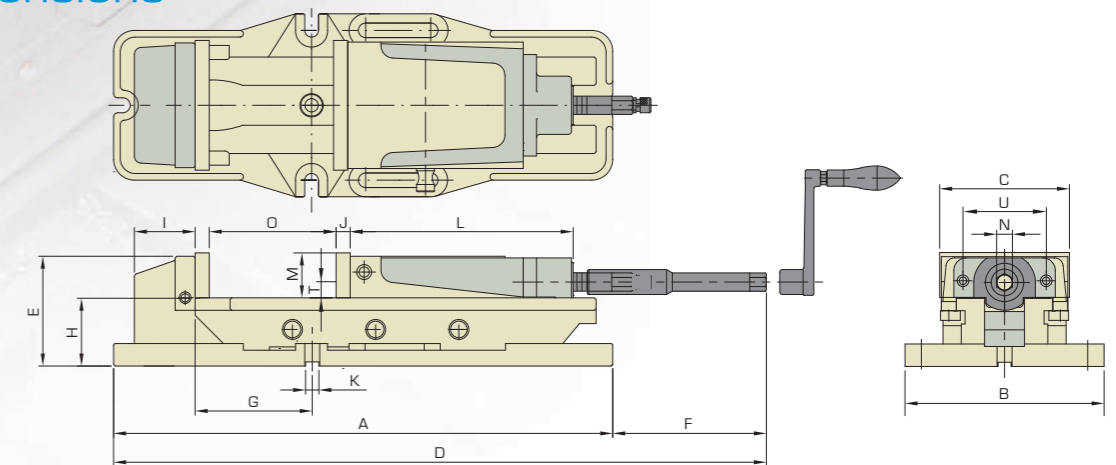
*Workholding*

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.

### HP Dimensions



HP DIMENSIONS																		mm/kg	
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	T	U	Clamping force	Weight
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

# Hydraulic Power Angle Vise

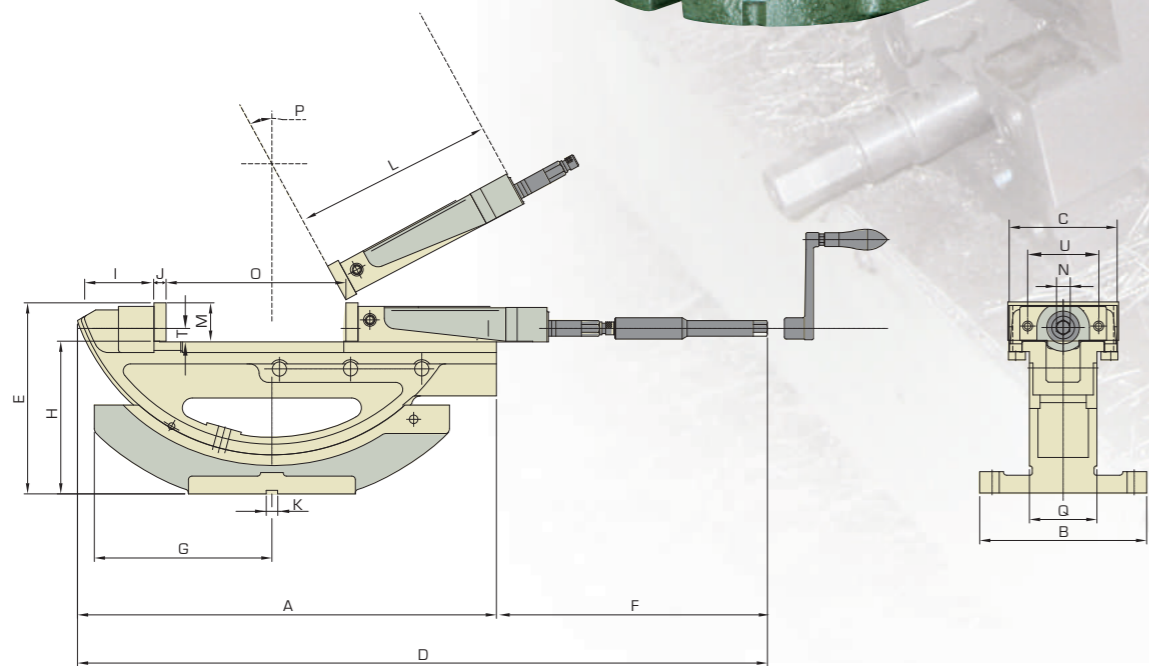
## HPT-60

Workholding

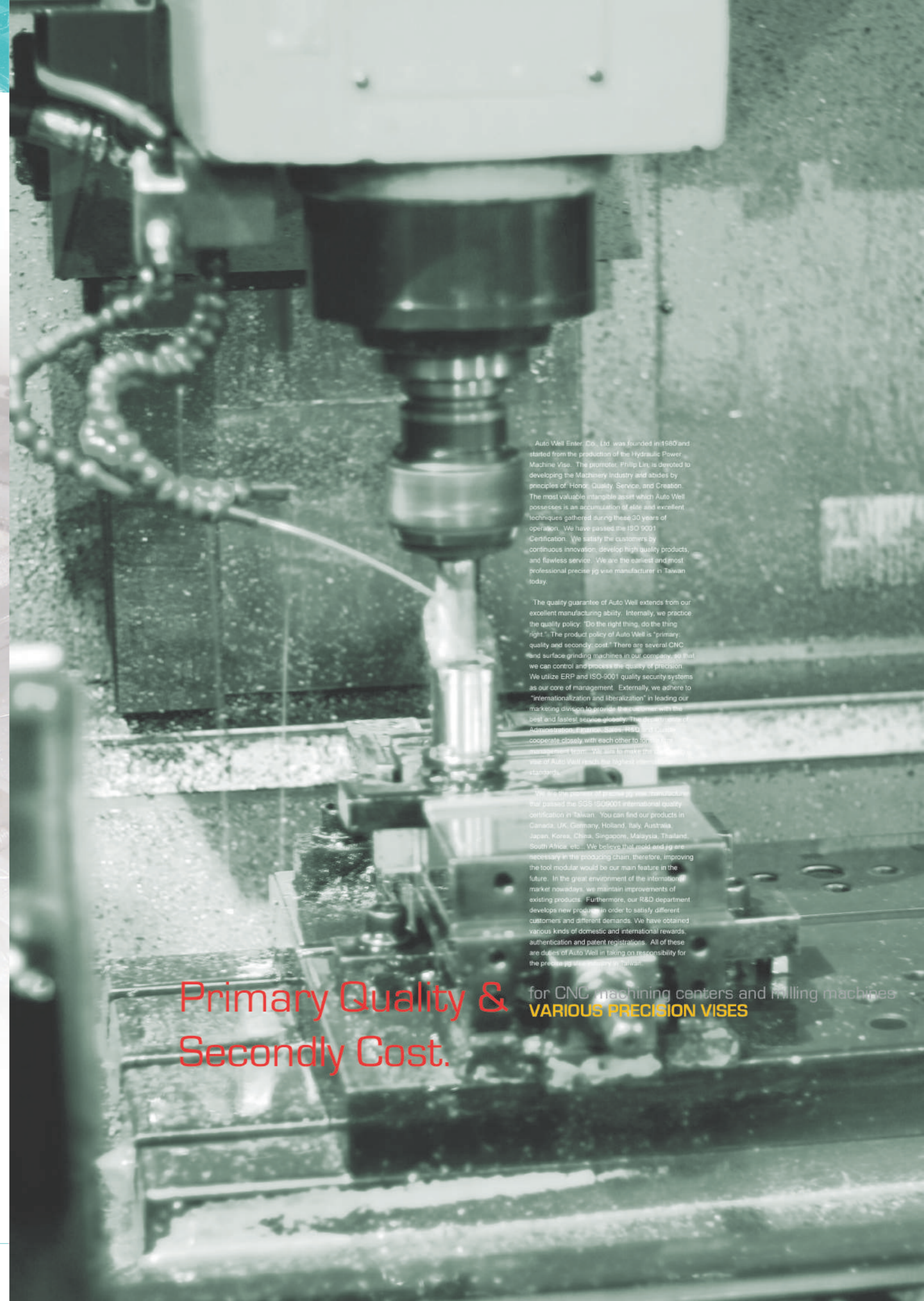
HPT Series is different from other conventional milling vise. It not only follows the functions of HP Series but also makes angular setting in directions possible. The vertical angle can be setting from 0-50° of your need. Precise angular setting in plane can be read from the mounted scale.



### HPT Dimensions



HPT DIMENSIONS																		mm/kg			
NO	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	T	U	Clamping force	Weight
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



Auto Well Enter. Co., Ltd. was founded in 1980 and started from the production of the Hydraulic Power Machine Vise. The promoter, Philip Liu, is devoted to developing the Machinery Industry and abides by principles of Honor, Quality, Service, and Creation. The most valuable intangible asset which Auto Well possesses is an accumulation of elite and excellent techniques gathered during these 30 years of operation. We have passed the ISO 9001 Certification. We satisfy the customers by continuous innovation, develop high quality products, and flawless service. We are the earliest and most professional precise jig vise manufacturer in Taiwan today.

The quality guarantee of Auto Well extends from our excellent manufacturing ability. Internally, we practice the quality policy: "Do the right thing, do the thing right." The product policy of Auto Well is "primary quality and secondly cost." There are several CNC and surface grinding machines in our company, so that we can control and process the quality of precision. We utilize ERP and ISO-9001 quality security systems as our core of management. Externally, we adhere to "internationalization and liberalization" in leading our marketing division to explore the overseas market. We will add latest machine globally. The production of Administration, Finance, Sales, R&D, and Customer cooperates closely with each other to form a "Total Management Team." We aim to make the 30th anniversary of Auto Well reach the highest level of development.

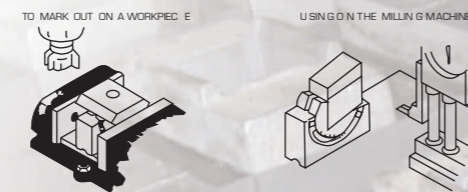
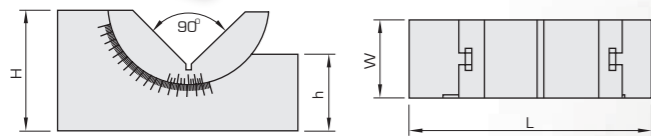
We are the pioneer of precise jig vise manufacturer that passed the SGS ISO9001 international quality certification in Taiwan. You can find our products in Canada, UK, Germany, Holland, Italy, Australia, Japan, Korea, China, Singapore, Malaysia, Thailand, South Africa, etc. We believe that mold and jig are necessary in the processing chain, therefore, improving the tool modular would be our main feature in the future. In the great environment of the international market nowadays, we maintain improvements of existing products. 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 duties of Auto Well in taking on responsibility for the precise jig vise manufacturer in Taiwan.

**Primary Quality & Secondly Cost.** for CNC machining centers and Milling machines  
**VARIOUS PRECISION VISES**

# GAP-25, 30, 46 Adjustable Angle Plates



GAP DIMENSIONS					
NO	L	W	H	h	N.W.
GAP-25	75	25	36	25	0.5kg
GAP-30	102	30	49	30	1.0kg
GAP-46	102	46	49	30	1.5kg

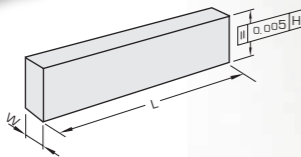


# AGP-85 Precision Parallels Set

N.W. 5.5kg



- Hardness: HRC50°-55°
- Accuracy: 0.01m/m



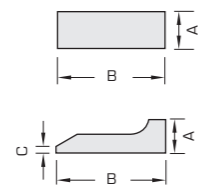
AGP-85 DIMENSIONS					
Order NO	W	H	L	PCS	N.W.
AGP-85	8.5	14	150	2	5.5kg
	8.5	16	150	2	
	8.5	20	150	2	
	8.5	24	150	2	
	8.5	30	150	2	
	8.5	32	150	2	
	8.5	36	150	2	
	8.5	40	150	2	
8.5	44	150	2		

# AGP-100 Precision Parallels Set

N.W. 11kg



- Hardness: HRC50°-55°
- Accuracy: 0.01m/m
- Process: Four-side grinding
- 1 set includes 18 pcs
- Packed by plastic case



AGP-100 DIMENSIONS					
Order NO	A	B	L	PCS	N.W.
AGP-100	5	16	100	2	11kg
	6	18	100	2	
	8	24	100	2	
	10	30	100	2	
	12	36	150	2	
	14	48	150	2	
	18	60	150	2	
22	62	150	2		
Clamp Size	A	B	C	L	PCS
	15	31	2.5	200	2

# GVL-100 Tool Maker Vise (Stainless steel)

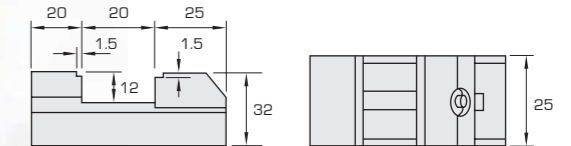
N.W. 0.3kg

## Tool Maker Vise (Stainless steel)

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.

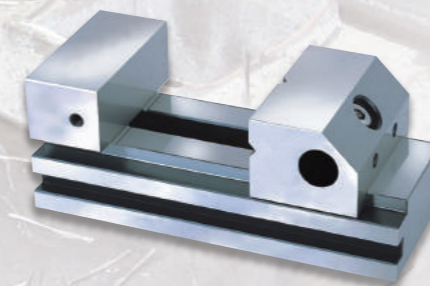


- High Precision Tool Makers Vise
- Hardness: HRC50°-55°
- Squareness: within 0.003m/m

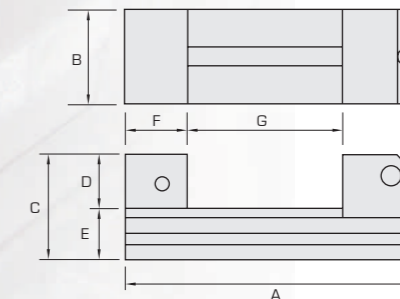


# GVL-200, 300 Tool Maker Vise (Stainless steel)

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



- Material: SUS440
- Parallelism: within 0.003mm/100mm
- Squareness: within 0.003mm/100mm
- Harden treatment up to HRC50°~55°

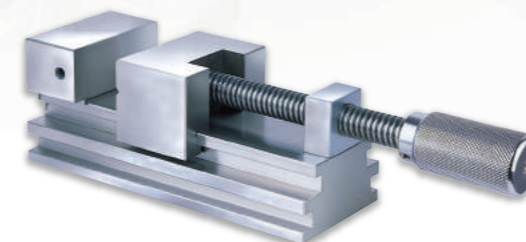


GVL-200, 300 DIMENSIONS								
NO	A	B	C	D	E	F	G	N.W.
GVL-200	140	50	53	25	28	25	0.75m/m	1.8kg
GVL-300	180	72	62	30	32	35	0.100m/m	3.8kg

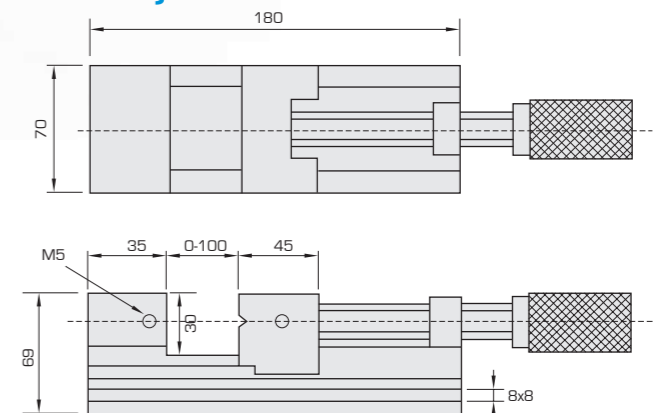
# VSU-300 Tool Maker Vise (Stainless steel)

N.W. 5kg

## Tool Maker Vise (Stainless steel)



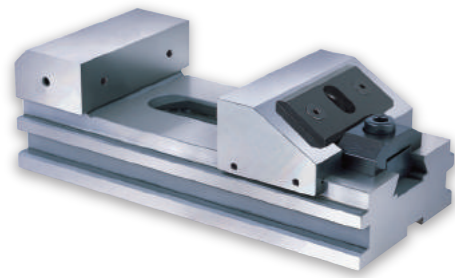
- Material: SUS440
- Parallelism: within 0.003mm/100mm
- Squareness: within 0.005mm/100mm
- Harden treatment up to HRC50°~55°



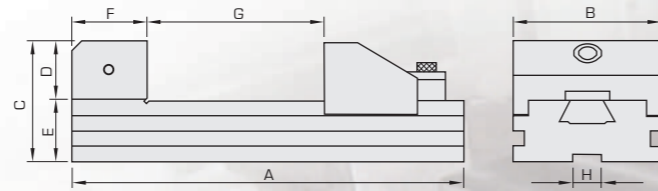
# GLK-60, 80, 100

## GLK Tool Maker Vise

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



- Material: YK30
- Hardness: HRC56°~60°

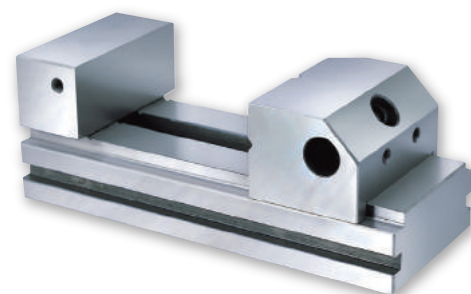
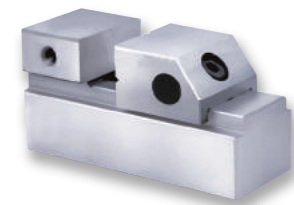


GLK-60~100 DIMENSIONS									
NO	A	B	C	D	E	F	G	H	N.W.
GLK-60	180	60	55	27	28	35	0-80	14	3kg
GLK-80	205	80	64	32	32	40	0-100	14	5kg
GLK-100	250	96	82	40	42	45	0-125	14	10kg

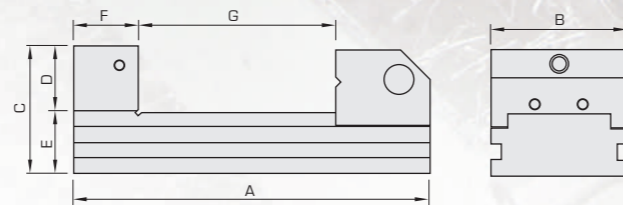
# VSB-15, 20, 25, 30, 40

## VSB Tool Maker Vise

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



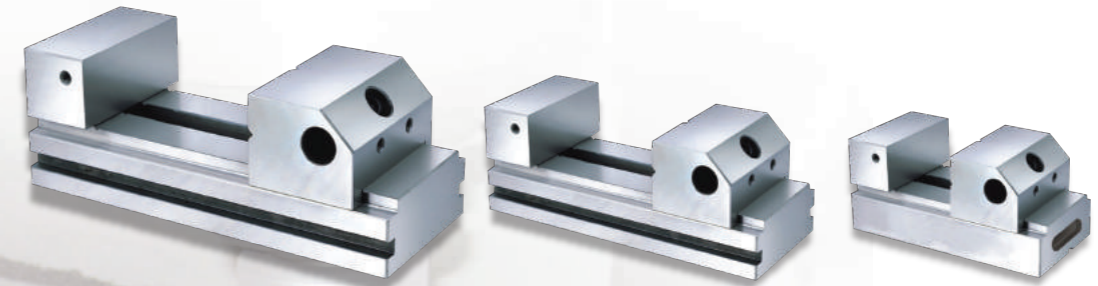
- YK30 material can pledge the rigidity and precision.
- Hardness HRC56°~60°



VSB-15~40 DIMENSIONS									
NO	A	B	C	D	E	F	G	N.W.	
VSB-15	105	36	48	20	28	25	0-40	1kg	
VSB-20	150	48	53	25	28	25	0-75	2kg	
VSB-25	176	63	59	30	29	30	0-95	3.3kg	
VSB-30	190	73	68	35	33	35	0-105	4.3kg	
VSB-40	245	98	90	45	45	45	0-135	10kg	

# GSV-34, 45, 70, 90, 120

## Super Precision Tool Maker Vise

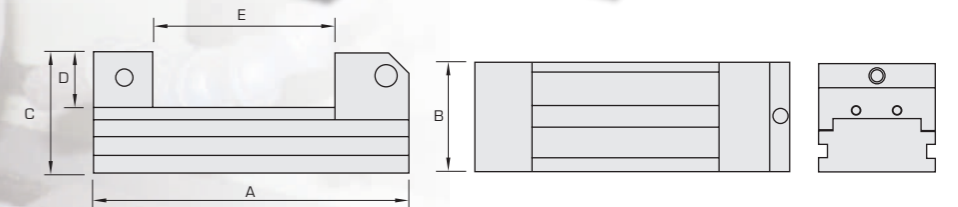


"GSV" type super precision tool maker vise, made of quality alloy steel. The best kind of tool maker vise whatever in design and accuracy.

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.

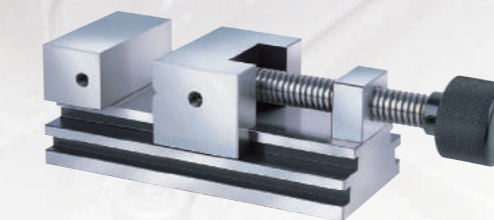
- Material SKS3
- Parallelism within 0.002mm/100mm
- Squareness within 0.003mm/100mm
- Cooling treatment: minus 185°C
- Harden treatment up to HRC58°~62°



GSV-34~120 DIMENSIONS						
NO	A	B	C	D	E	N.W.
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

# GAA-20, 25, 30, 40

## Super Precision Tool Maker Vise



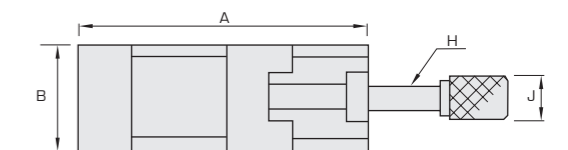
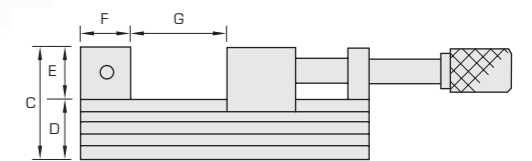
"GAA" type super precision tool maker vise, complete size, handle designed, can be arbitrarily rotated the handle to adjust clamping size.

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.

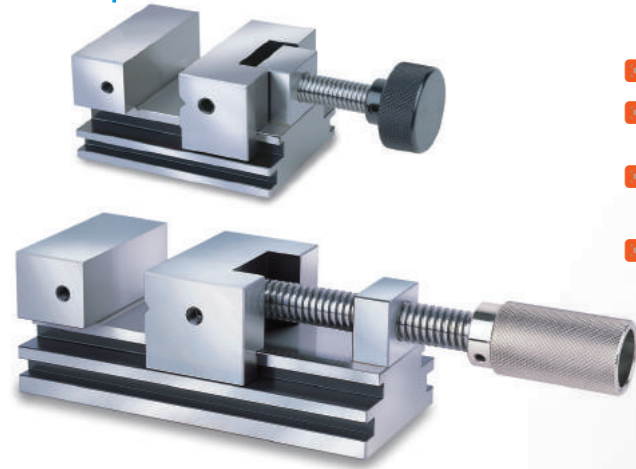
- Material SK2
- Parallelism within 0.003mm/100mm
- Squareness within 0.004mm/100mm
- Harden treatment up to HRC56°~58°



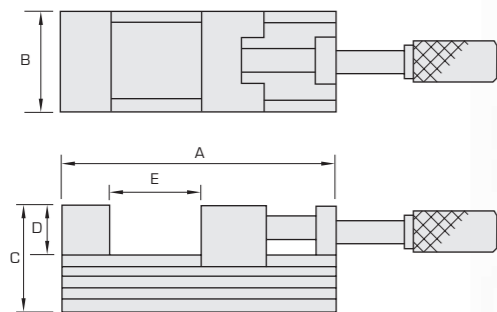


# GAS-60,70,90

## Super Precision Tool Maker Vise



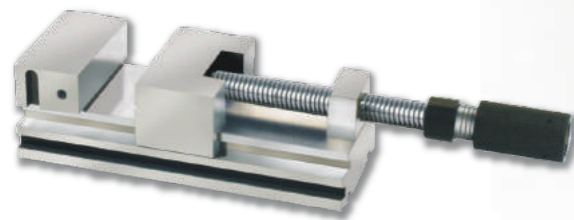
- "GAS" type super precision tool maker vise, made of quality alloy steel.
  - Quality and precision are stability. Achieving Europe and Japan quality test qualification.
  - Single side oblique angle design, can be mended the quantity of essence deformed automatically.
  - Material SKS3
- |                   |                      |
|-------------------|----------------------|
| Parallelism       | within 0.002mm/100mm |
| Squareness        | within 0.003mm/100mm |
| Harden treatment  | up to HRC56°~58°     |
| Cooling treatment | minus 185°C          |



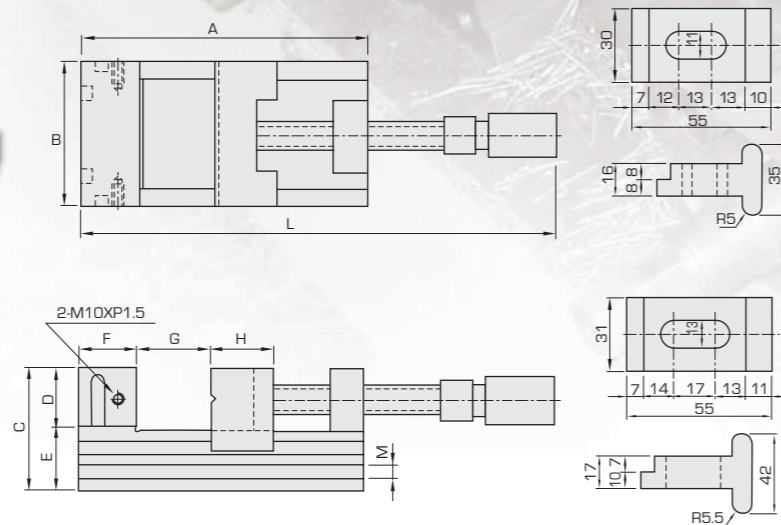
GAS-60, 70, 90 DIMENSIONS							
NO	A	B	C	D	E	N.W.	
GAS-60	92	60	50	25	0-32	1.6kg	
GAS-70	165	70	62	30	0-80	4.3kg	
GAS-90	212	90	80	40	0-120	8.4kg	

# PGV-100,125

## Precision Hydraulic Vise



- 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.
  - Material SKS3
- |                      |                      |
|----------------------|----------------------|
| Parallelism          | within 0.003mm/100mm |
| Squareness           | within 0.005mm/100mm |
| Harden treatment     | up to HRC60°~62°     |
| Cooling treatment    | minus 185°C          |
| Max. Clamping forces | 1500kgf              |

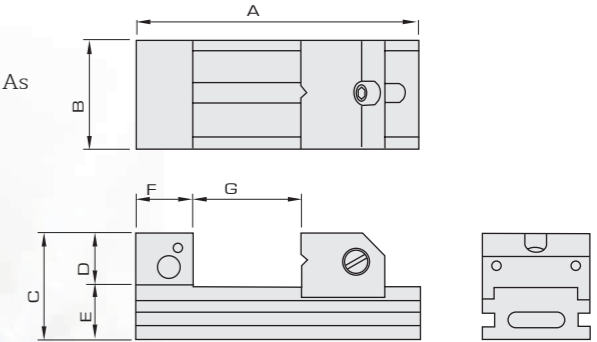


PGV DIMENSIONS											
NO	A	B	C	D	E	F	G	H	L [Mximum]	M	N.W.
PGV-100	220	100	80	40	40	40	110	50	455	9X7	10kg
PGV-125	300	125	90	40	50	60	165	70	590	10X7	19.5kg

# AVV-30, 40, 50, 60

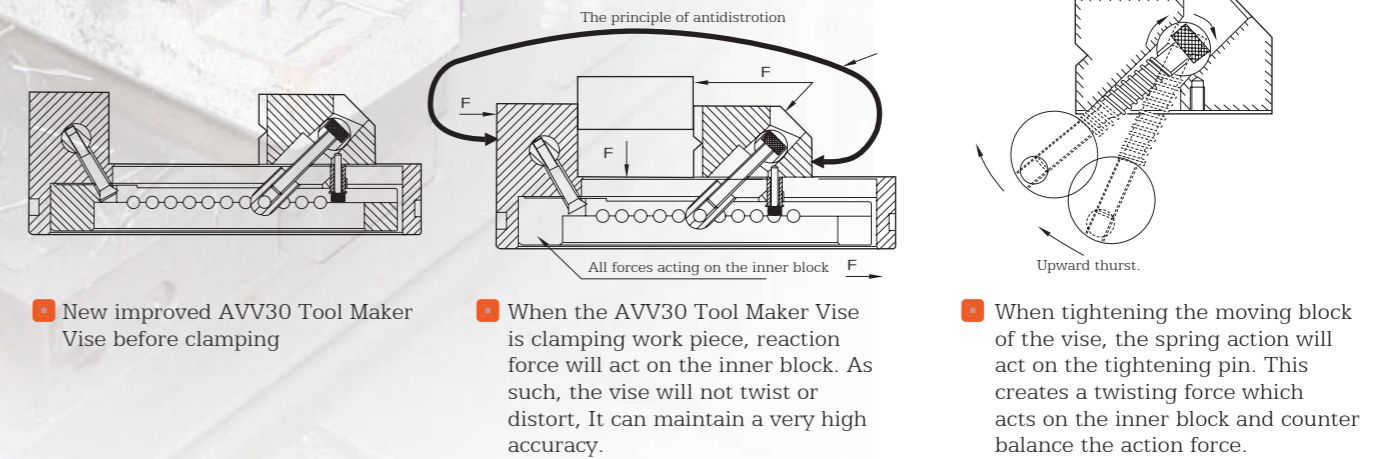
## Super Precision Tool Maker Vise

- "AVV" Tool maker Vise is made of high quality alloy tool steel.
  - It has a special feature to prevent disstortion 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.
  - Material SKS3
- |                   |                      |
|-------------------|----------------------|
| Parallelism       | within 0.003mm/100mm |
| Squareness        | within 0.004mm/100mm |
| Harden treatment  | up to HRC58°~62°     |
| Cooling treatment | minus 185°C          |

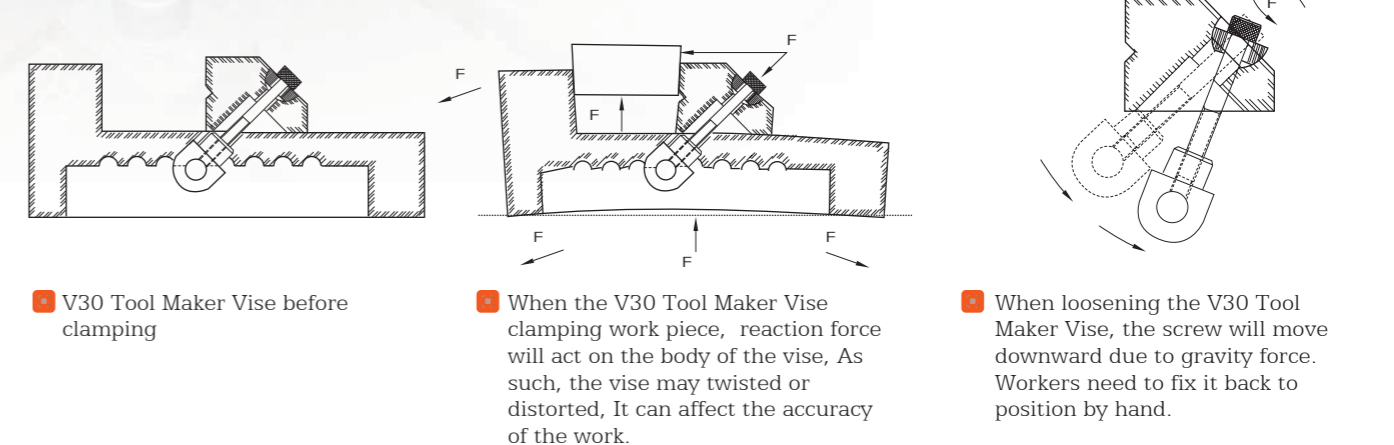


AVV DIMENSIONS								
NO	A	B	C	D	E	F	G	N.W.
AVV-30	190	73	70	35	35	38	0-100	4.6kg
AVV-40	230	98	80	40	40	46	0-125	11.4kg
AVV-50	300	125	98	48	50	60	0-160	18.5kg
AVV-60	350	150	100	50	50	60	0-210	24.9kg

### SUPER PRECISION TOOL MAKER VISE

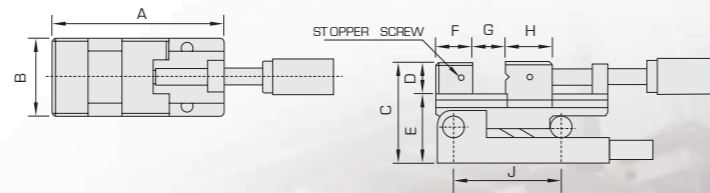
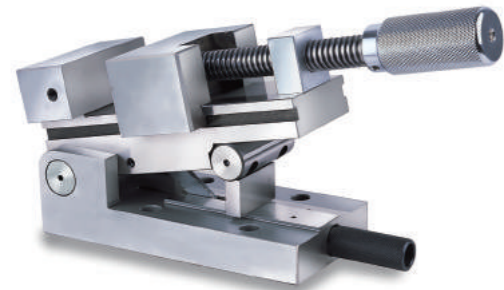


### GENERAL TOOL MAKER VISE



# AGV-100 Precision Sine Vise

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



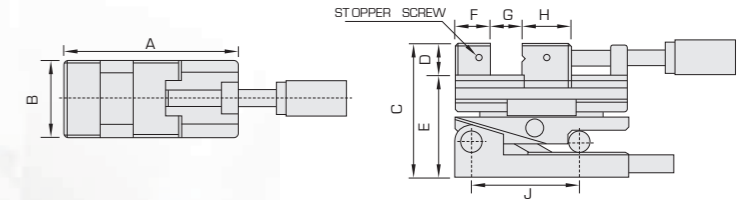
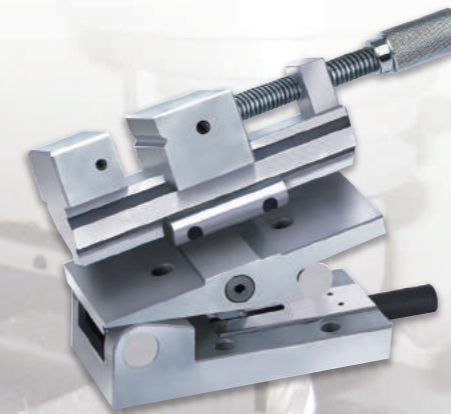
- Material SKS
- Parallelism within 0.003mm/100mm
- Squareness within 0.005mm/100mm
- Harden treatment up to HRC58°~62°
- Angle tol. within 15sec within 20sec

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

AGV-100 DIMENSIONS												
NO	A	B	C	D	E	F	G	H	I	J	Max.angle	N.W.
AGV-100	160	73	93	30	63	33	80	45	M5	100	46°	6.8kg

# CSV-100 Precision Compound Sine Vise

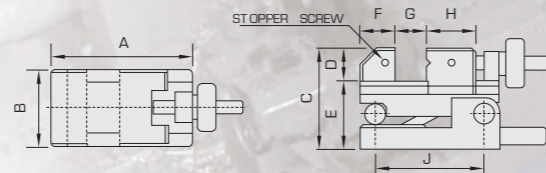
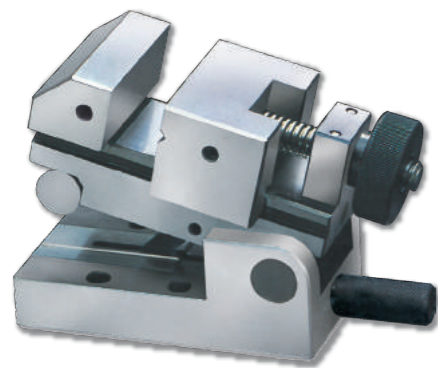
It can process at the second angle without removing a workpiece



CSV-100 DIMENSIONS												
NO	A	B	C	D	E	F	G	H	I	J	Max.angle	N.W.
CSV-100	160	73	124	30	94	33	80	45	M5	100	46°	8.8kg

# GVC-100 Precision Sine Vise

The clamp handle is placed under workpiece

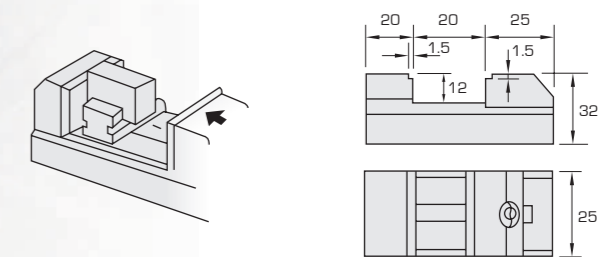


GVC-100 DIMENSIONS												
NO	A	B	C	D	E	F	G	H	I	J	Max.angle	N.W.
GVC-100	130	73	93	30	63	33	45	45	M5	100	46°	6kg

# AVS-100 Tool Maker Vise(Small)

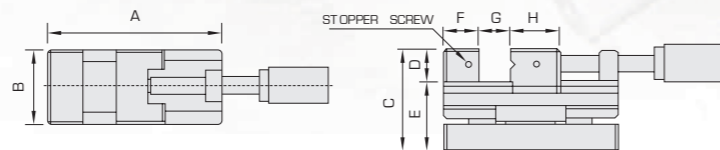
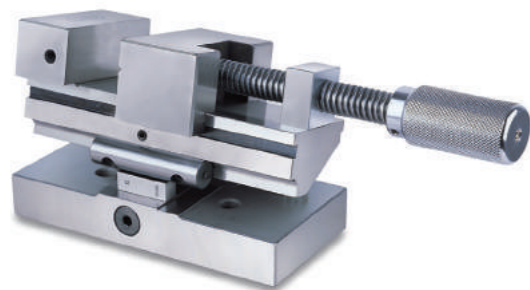
N.W. 0.3kg

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.



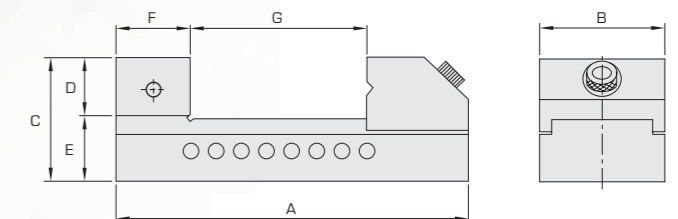
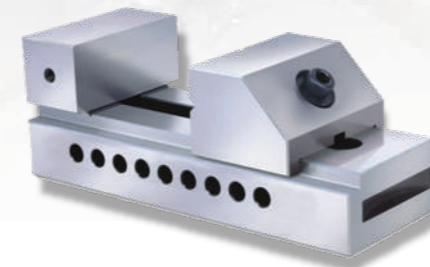
# AGL-50 Precision Sine Vise

It can set horizontal angles



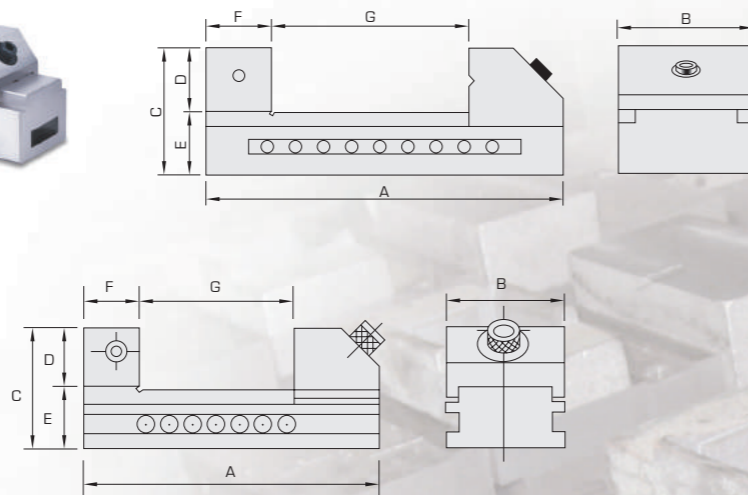
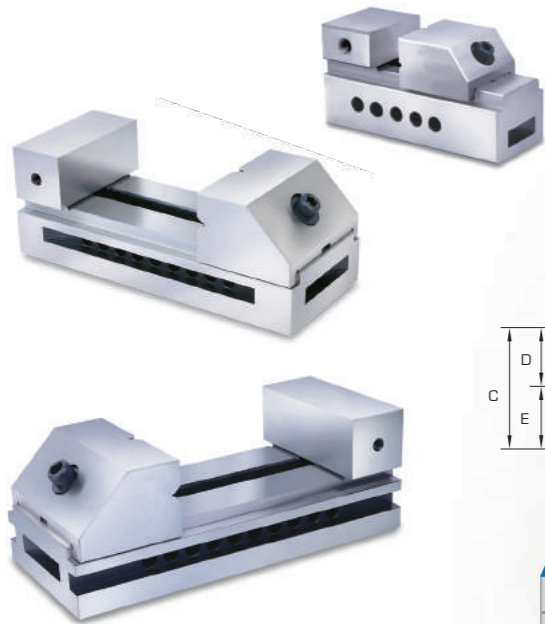
AGL-50 DIMENSIONS												
NO	A	B	C	D	E	F	G	H	I	Max.angle	N.W.	
AGL-50	160	73	93	30	63	33	80	45	M5	46°	6.5kg	

# AVB-15, 20, 25, 30, 35, 40, 50 Tool Maker Vise



AVB DIMENSIONS								
NO	A	B	C	D	E	F	G	N.W.
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

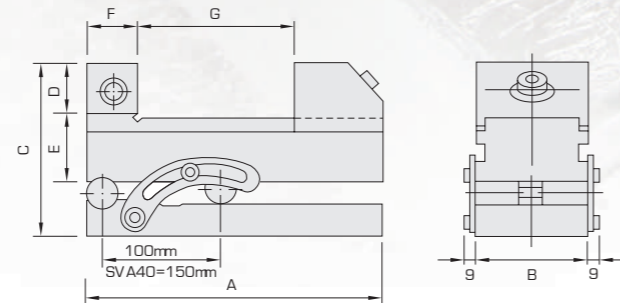
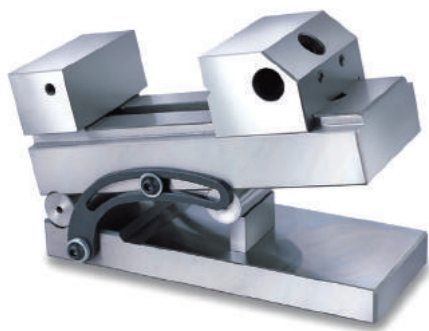
# AVS-15, 20, 25, 30, 35, 40, 50, 60 Tool Maker Sine Vise



AVS DIMENSIONS								
NO	A	B	C	D	E	F	G	N.W.
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

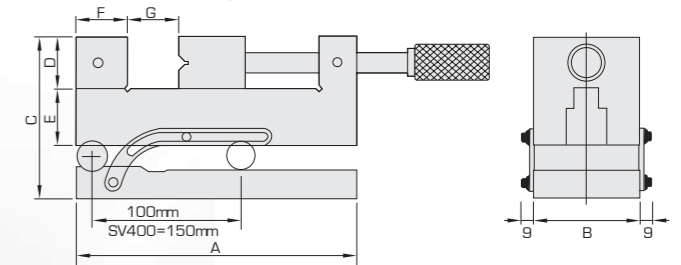
- Material SK2
- Parallelism within 0.003mm/100mm
- Squareness within 0.005mm/100mm
- Harden treatment up to HRC56°~60°

# SVA-20, 25, 30, 40 Tool Maker Sine Vise



SVA DIMENSIONS								
NO	A	B	C	D	E	F	G	N.W.
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

# ASV-200, 250, 300, 400 Tool Maker Sine Vise

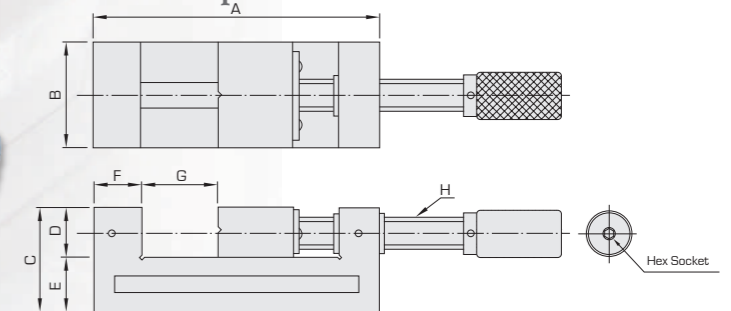
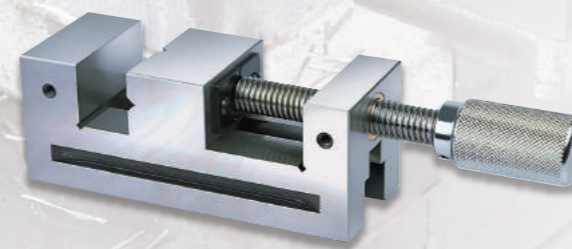


ASV DIMENSIONS								
NO	A	B	C	D	E	F	G	N.W.
ASV-200	156	48	87.5	25	27	25	0-63	4.4kg
ASV-250	176	63	98.5	30	33	30	0-73	7kg
ASV-300	190	73	103.5	35	33	35	0-76	9kg
ASV-400	255	98	120.5	40	42	40	0-120	16kg

- Harden treatment up to HRC:56°-60°

# VSD-20, 25, 30, 40 Tool Maker Vise

Tool Maker Vise makes its clearance smallest. Hand wheel with Hex nut can be tightened by hex spanner. It is simple to dismantle the screw pole after abraded.

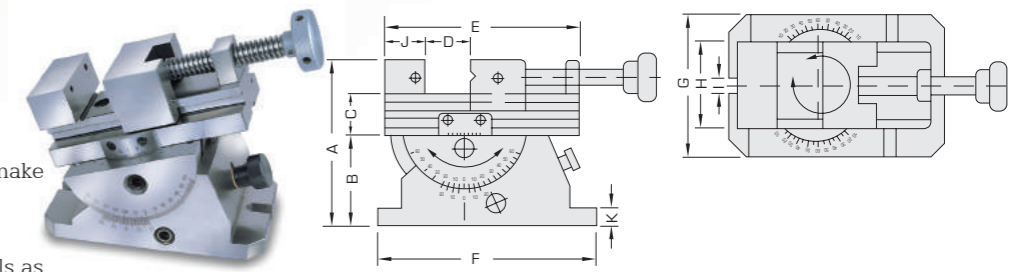


VSD DIMENSIONS								
NO	A	B	C	D	E	F	G	N.W.
VSD-20	156	48	52	25	27	25	0-63	2.5kg
VSD-25	176	63	63	30	33	30	0-73	4.5kg
VSD-30	190	73	73	35	38	35	0-76	6kg
VSD-40	255	98	82	40	42	40	0-120	12kg

- Material SK2
- Parallelism within 0.003mm/100mm
- Squareness within 0.005mm/100mm
- Harden treatment up to HRC56°~60°

# CHM-80 Precision Universal Vise

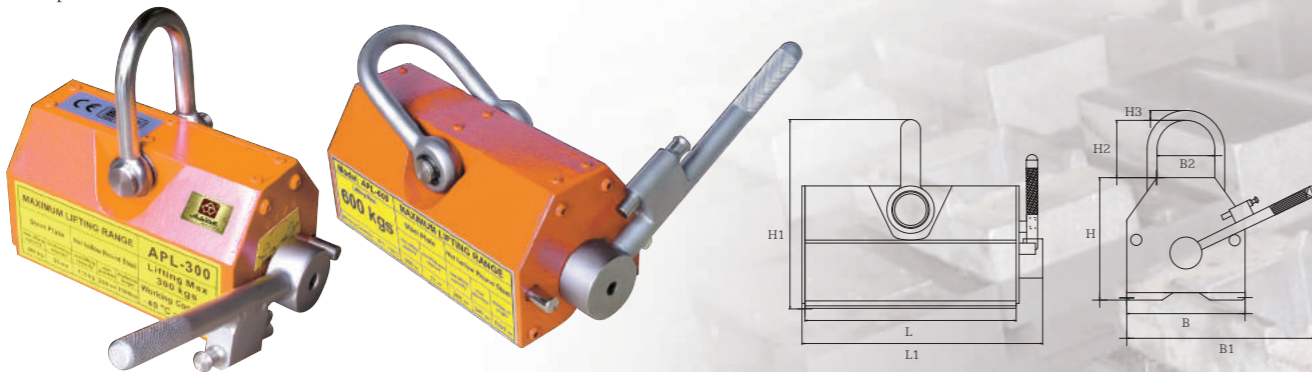
- Precision graduation for accurate reading.
- Horizontal swivel through 360°.
- The unit tilts 45° vertically.
- Its swivelling and tilting features make this unit well suited for straight or inclined surface, angular drilling machining on various machine tools as precision grinding machine, boring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



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

# ON/OFF Type Permanent Lifting Magnetic Chuck

- Before lifting a workpiece, please check if any foreign-material or iron chip exists between the lifter and workpiece, please clean up the surface of the lifter and workpiece.
- Checks the switch position to make sure it is set correctly, and also checks the held workpiece if it is being held completed and balanced before lifting.
- Please do not switch the handle "on" if it is not being used to avoid any damage caused.
- Please do not use the product if the working piece surface temperature is higher than 80°C degree.
- Suitable for carrying various Iron material workpiece.
- Very easy operation with the special design of ON/OFF switch. Easy-Locked function, provides you switch on and lock the handle at the same time.
- Workingpiece surface will not be damaged during the working.
- High holding magnetic power, this lifter can be used successive. Electro power is no necessary for the lifter to avoid power failure problem.



APL DIMENSIONS																		
NO	Capacity (KG)	Chuck face		Dimensions							Max Lifting Range				Safety coefficient	Weight (KG)		
		B	L	H	B1	L1	H1	B2	H2	H3	Steel Plate	Not Hollow Round Steel						
											max lifting capacity(kg)	min thickness required(mm)	max lifting capacity(kg)	max. diameter(mm)	maximum Length(mm)			
APL-100	100	63	92	71	164	110	122	32	43	8	100	15	45	150	1000	x 3.5	2.5	
APL-300	300	93	165	96	210	185	170	45	62	13	300	25	135	250	1500	x 3.5	8	
APL-600	600	122	236	120	303	265	227	59	92	15	600	30	270	350	2000	x 3.5	22	
APL-1000	1000	171	263	164	413	298	302	95	116	20	1000	40	450	450	2500	x 3.5	51	
APL-2000	2000	232	378	215	576	415	390	119	148	28	2000	55	870	550	3000	x 3.5	131	
APL-3000	3000	300	454	265	717	490	500	156	213	32	3000	60	1320	650	3500	x 3.5	250	

The specifications and dimensions of products in the catalogs are for reference only. Subject to be changed without any notice.

## Load of Holding Power

The load of holding power will changes depending on the thickness, attractive face roughness and quality of material and clearance between the workiece with magnet. (See the graphs as below)

Chart of difference in holding power by thickness								
NO	Thickness		Percentage of lifting capacity					
	mm	Inch	APL-3000	APL-2000	APL-1000	APL-600	APL-300	APL-100
1	UP 60	UP 2.36"	100%					
T2	55	2.16"	95%	100%	100%	100%	100%	100%
T3	50	1.97"	90%	95%				
T4	45	1.77"	85%	90%				
T5	40	1.57"	75%	85%				
T6	35	1.38"	65%	75%	90%	90%	100%	
T7	30	1.18"	55%	65%	80%			
T8	25	0.98"	45%	55%	70%			
T9	20	0.79"	35%	45%	60%	75%	90%	100%
T10	15	0.59"	25%	35%	50%	60%	70%	
T11	10	0.39"	15%	25%	35%	45%	50%	
T12	5	0.20"	10%	15%	20%	25%	30%	40%

- Calculating Formula for "Range of Lifting Capacity" (TxFxMxCapacity of Lifter)  
Example: Terms of workpiece: T8, F1, M2  
90% X 125% X 85% X 600kg(APL-600)=573KG
- Safety Factor X 3.5 Time (Safety factor is consideration for ensurint the use in safety.)
- The above diagrams is only for reference. The operator should be test and check if it is in safe range before lift away the workpiece of steel. Other wise, it will be not responsibility by producer for any accidents.

## For Vise Accessories

### Swivel Base



ATW, HP, MP



### Special Jaws



### Angle Plate



Angle Plate				
Item No.	L	W	H	Weight
AVR-4	75mm	112mm	89mm	2kgs
AVR-6	115mm	150mm	127mm	3.5kgs
AVR-8	127mm	198mm	150mm	7kgs
AVR-10	150mm	254mm	203mm	12kgs
AVR-12	203mm	304mm	228mm	25kgs

### Workstop



### Clamp Support Screw Jacks



Clamp Support Screw Jacks		
Item No.	Height	Weight
AS-65	70-100mm	2kgs
AS-150	110-150mm	3.5kgs
AS-250	140-200mm	7kgs
AS-500	270-250mm	12kgs

### Handles



### Clamping Kit



Clamping Kit			
MODEL	T-SLOT	STUD SIZE	STEP BLOCK WIDTH
ACK-103A	7/16		1"
ACK-103B	1/2	3/8-16	(STB14. STB24. STB34)
ACK-103C	9/16		
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		1" or 1 1/4"
ACK-105B	3/4	5/8-11	(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		
ACK-12B	16	M12xP1.75	1" (STB14. STB24. STB34)
ACK-12C	18		
ACK-14	16	M14xP2.0	1" (STB14. STB24. STB34)
ACK-16	18	M16xP2.0	1" (STB14. STB24. STB34)