

WELLOCK LARGE OPENING VISE

角固鎖式精密虎鉗

WORLD FAMOUS & HIGH ACCURACY & BEST QUALITY & LARGE OPENING

世界級、特精準、高品質、大開口

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

Wellock Semi-spherical segment eliminate deflection and lift. Rigid and tensile ductile iron FCD-60 (80,000PSI) vise body. Slide surface flame hardened

to 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.

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

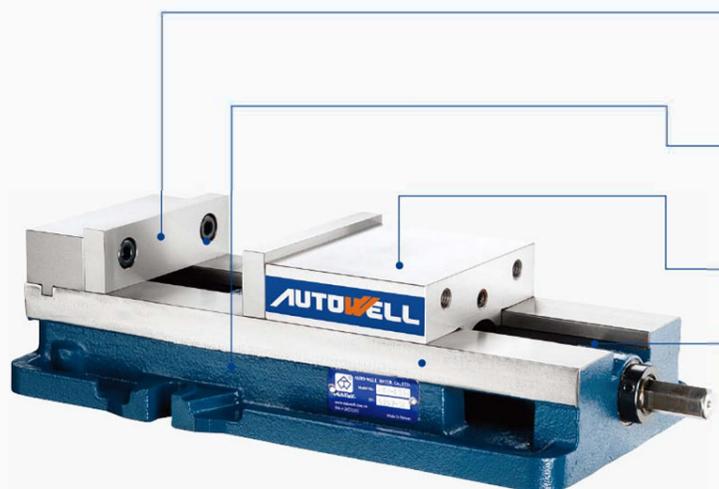
角固式(WELLOCK)半圓球可產生角固下鎖之力，可消除鉗口板上浮和工件傾斜。

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

虎鉗擁有四種不同的夾持開口應用位置來供客戶選擇。

傳動螺桿採特殊防塵裝置，且螺桿經過特殊處理，可減少磨耗。

夾持力高達8,200lbs (37,800N)



8,200LBS CLAMPING FORCE
8,200lbs 高夾持力

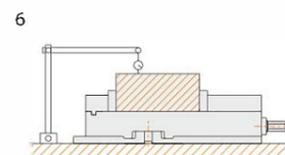
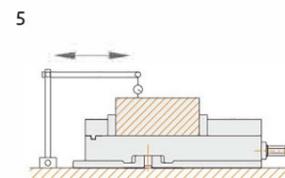
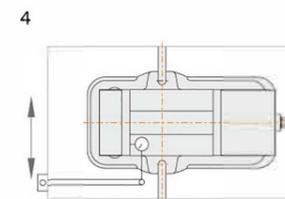
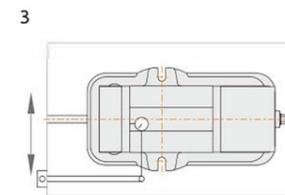
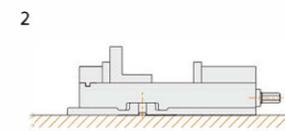
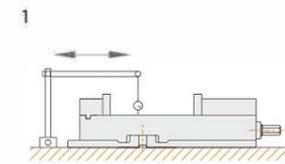
WELLOCK ANTI-LIFT MECHANISM
球狀石墨鑄鐵材質

SEALED BEARING SYSTEM
半圓球防止上浮機構

DUCTILE IRON BODY
密封軸承系統

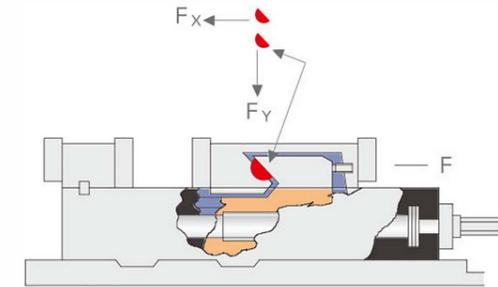
STATIC ACCURACY

精度表



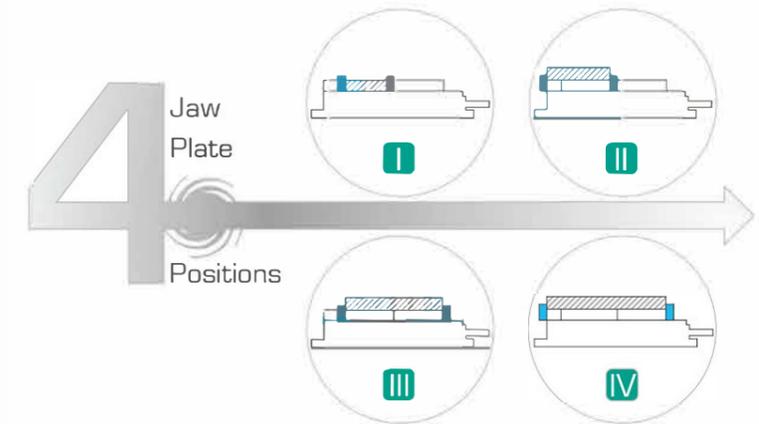
WELLOCK ANTI-LIFT MECHANISM

半圓球防止上浮機構



4 JAW-PLATE POSITIONS

4種鉗口板應用位置



WELLOCK VISE SYSTEM

角固式虎鉗

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

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

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

DOUBLE STATION VISE

TLD-40, 60G/HV

Workholding

NEW LOCKWELL
DOUBLE STATION VISE

新型 雙鵬式虎鉗



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°.

Unique design facilitates the evacuation of chips.

U.S.A. patented.

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

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

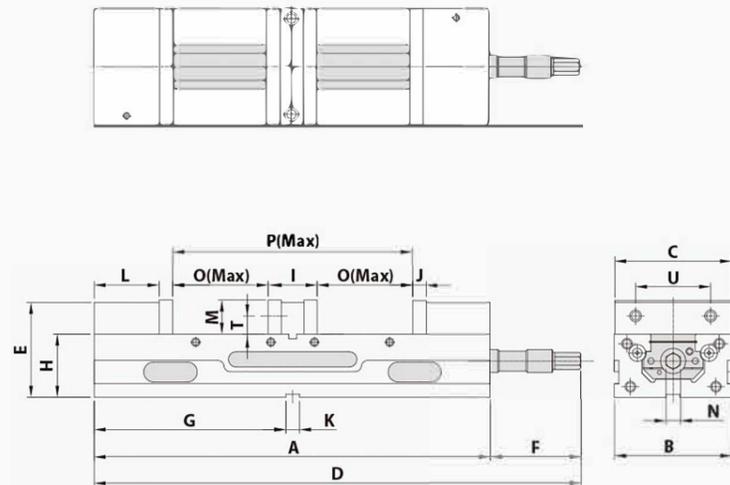
向量式(LOCKWELL)專利設計，使工件產生向下壓力效果，以消除傳統虎鉗操作時所產生的傾斜與偏向。

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

獨特防屑設計，防止鐵屑進入虎鉗內部，延長使用期限。

擁有美國專利認證。

DIMENSIONS 尺寸圖



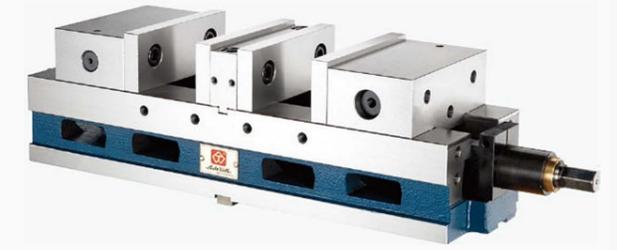
ITEM NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	T	U	WEIGHT 重量
	mm																		
TLD-40G/HV	405	104	102	459	96.5	54	27.5	63.5	55	15	18	69	38	14	90	235	17.5	63.5	20kg
TLD-60G/HV	520	154	152	536	124.05	16	33	82.55	66	18	18	86.5	44.5	19	125	316	23.8	98.4	52kg

ALD-60G/HV

Workholding

LOCKWELL
DOUBLE STATION VISE

雙鵬式虎鉗



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

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

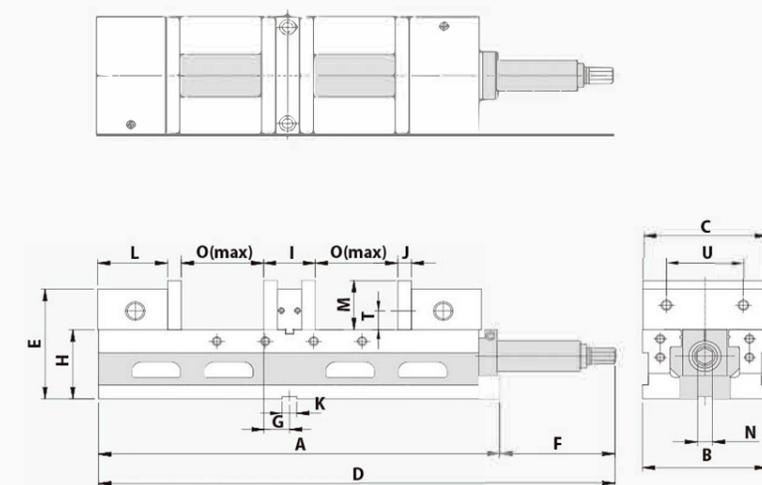
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向量式(LOCKWELL)專利設計，使工件產生向下壓力效果，以消除傳統虎鉗操作時所產生的傾斜與偏向。

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DIMENSIONS 尺寸圖



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

TLD

ALD

ATW 689, 810, 811

WELLOCK LARGE OPENING VISE

角固鎖式 虎鉗

Workholding

ATW-689

8.9" large opening.

Spindle nut does not protrude past the end of body.

Same distance from keyway to stationary jaw with ATW-675.

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

8.9"大開口。

齒條不超出本台。

T型槽到固定額的距離同ATW-675。

本台高度73.025±0.012mm (2.875±0.0005")。

ATW-810

Updated body from ATW-80, it provides 10" large opening and steadier vise body.

Bed height 84.074±0.012mm (3.31±0.0005").

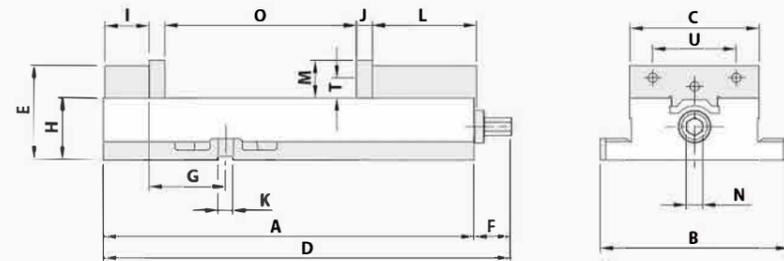
11,600lbs clamping force.

ATW-810是由ATW-80進化而成，10"超大開口且本台穩定度更高。

本台高度84.074±0.012mm (3.31±0.0005")。

夾持力11,600lbs。

DIMENSIONS 尺寸圖



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

ATW-675 ATD-460/570

WELLOCK VISE 角固鎖式 虎鉗

ATW-675

7.5" opening.

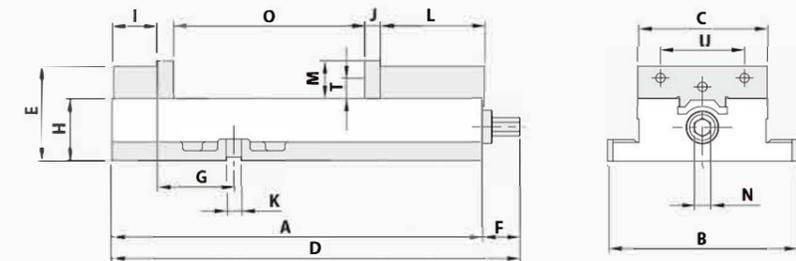
Bed height 73.025±0.012mm (2.875±0.0005").

7.5"開口。

本台高度73.025±0.012mm (2.875±0.0005")。

Workholding

DIMENSIONS 尺寸圖



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

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

WELLOCK LARGE OPENING VISE

角固鎖式 虎鉗



9" large opening for 6'.

Spindle nut does not protrude past the end of body.

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

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

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

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

USA Patent No. US:D838,568S

ADX-160 九吋大開口。

齒條不超出本台。

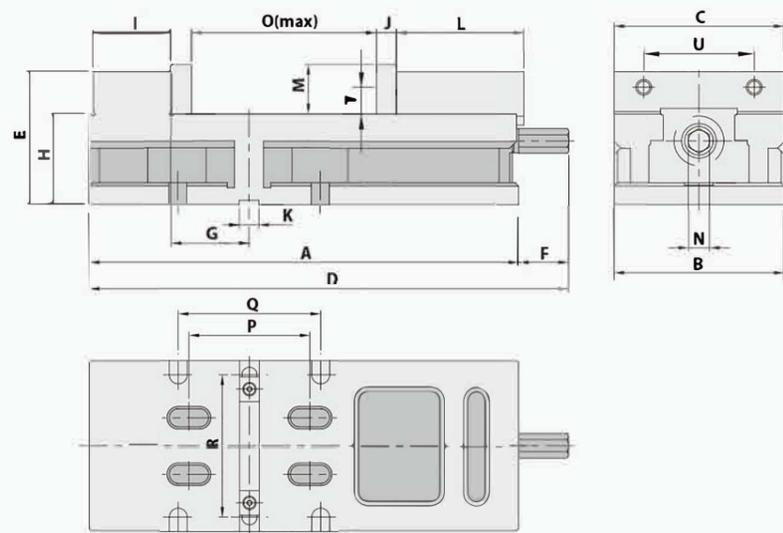
ADX-160之T型槽到固定鐵的距離同ATW-689

本台高度73.025±0.012mm (2.875±0.0005")。

ADX系列材質: FCD60(80,000PSI)抗張力強, 不易變形。

美國專利認證 US:D838,568S。

DIMENSIONS 尺寸圖



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

MG, MGR 40, 60G

WELLOCK VERSATILE VISE

多功能鎖式 虎鉗



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

2 operate positions for VMC: Upright and Lay down.

1 operate position for HMC: Horizontal.

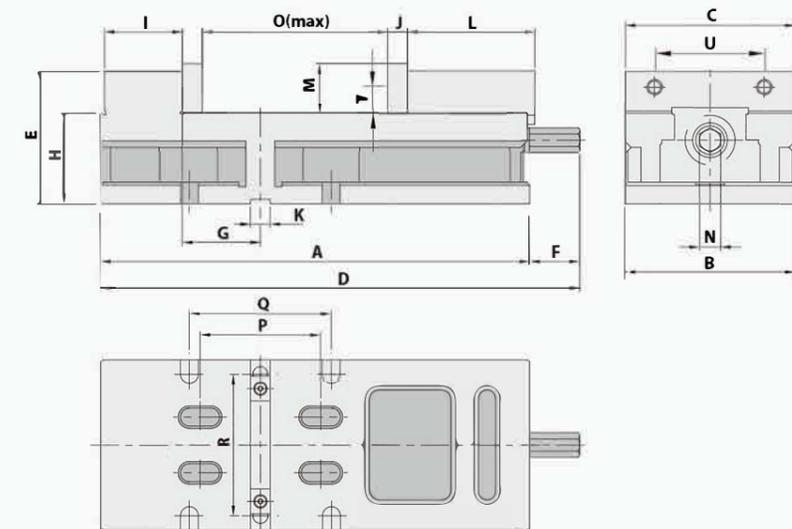
Material of MG/MGR: FCD-60.

基本型單機CNC虎鉗, 強調防止工件上浮的功能, 提供高標準精度。

立、橫、臥三用。

MG/MGR系列材質: FCD60。

DIMENSIONS 尺寸圖



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

DOUBLE STATION VISE

TLD-40, 60G/HV

Workholding

NEW LOCKWELL
DOUBLE STATION VISE

新型 雙鵬式虎鉗



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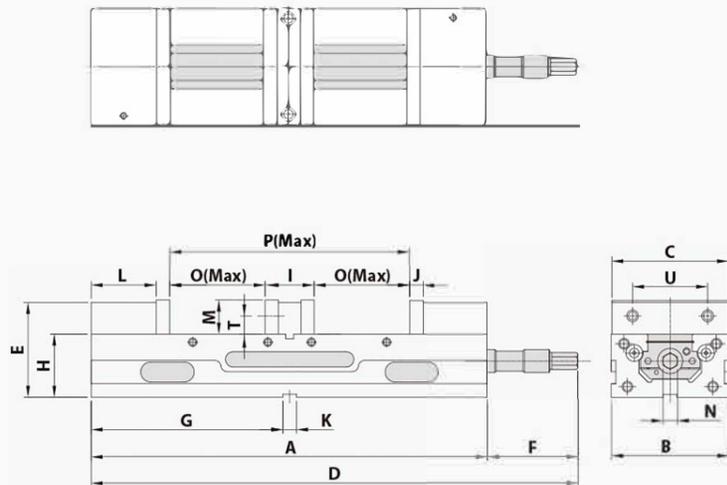
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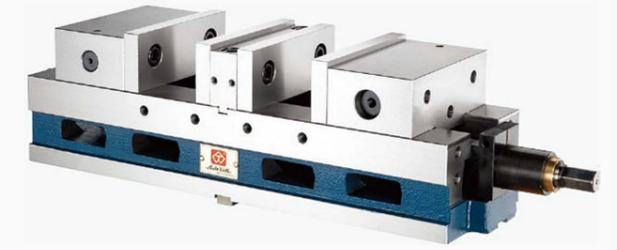
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ALD-60G/HV

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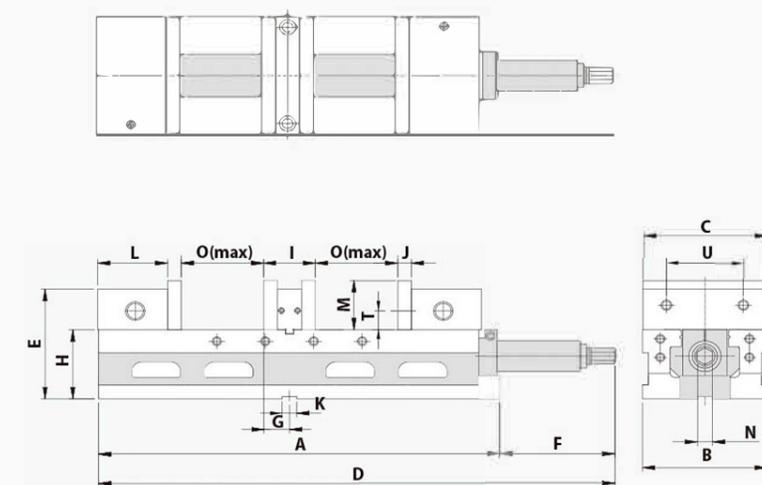
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TLD

ALD