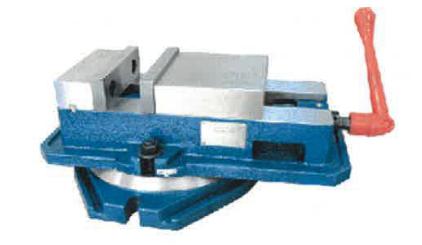
Lock-Tight Precision Machine Vise

Operating Instructions Manual



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Operating Instructions

For proper vise operation insert the handle on the hex end of he vise .Rotate clockwise to clamp and counterclockwise to unclamp your vise .This handle combined with the corret amount of torque will provide you with all the clamping force you will need to machine your parts .Do not use any other type of pressure toopen or close your vise.

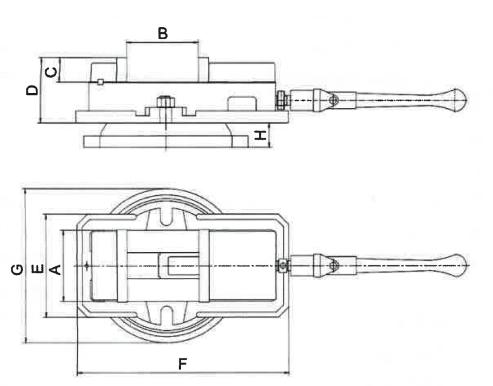
The uses of handle extensions ,air impact wrenches ,breaker bars or hammer strikes are not recommended and will void the warranty if used This will slao cause damage to the thrust bearing and screw threads .If you need to more clamping force youmay need upgrade the vise to a large one.

To properly clamp a part in your vise you should place the part in the center of the jaws resting on the ways of the vise lamping only on one side or above the movable and stationary jaws canresult in jaw lift or loss of accuracy.

If one-sided clamping is necessary you must use a dummy part on the other side. When using parallels or step jaws you must select a size that keeps the bottom of the clamped part at or below the top of the movable and stationary jaws. Always use jaw plates for clamping .If jaw plates are not used damage to the mounting surface of the movable and stationary jaw will occur .This will result in reduced clamping accuracy and repeatability.

Technical Parameters

Technical Parameters



Unit: inch

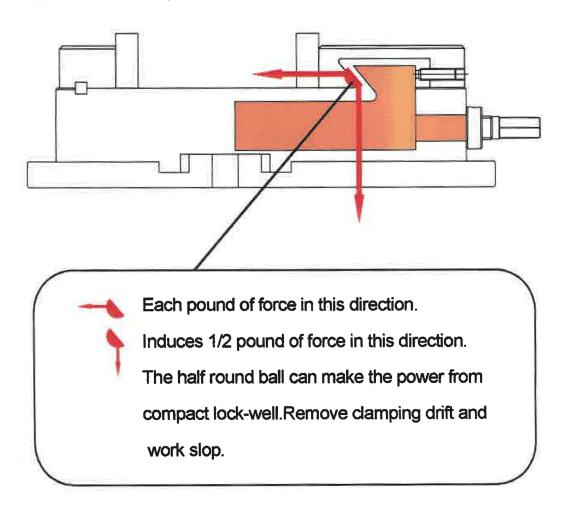
Model	Jaw Width A	Jaw Opening B	Jaw Height H1	Н	E	F	G	Base Height H2	N.W. (lb)
LV-3"	3"	2-61/64"	63/64"	3-5/32"	4-1/4"	10-15/32"	6-7/64"	1-3/16"	26.4
LV-4"	4"	4-5/6"	1-9/64"	3-37/64"	6-3/16"	12-3/4"	9-7/32"	1-29/64"	59.5
LV-5"	5"	4-3/4"	1-1/2"	4-1/16"	7-1/64"	14-5/16"	9-3/4"	1-1/2"	71
LV-6"	6"	5-9/16"	1-7/8"	4-27/32"	8-11/32"	16-21/32"	12-1/4"	1-1/2"	106
LV-6"X	6"	7-1/2"	1-7/8"	4-27/32"	8-1/2"	17"	12-1/4"	1-1/2"	123
LV-8"	8"	8-5/8"	2-23/64"	5-45/64"	10-3/4"	21-5/8"	14-3/8"	1-49/64"	205

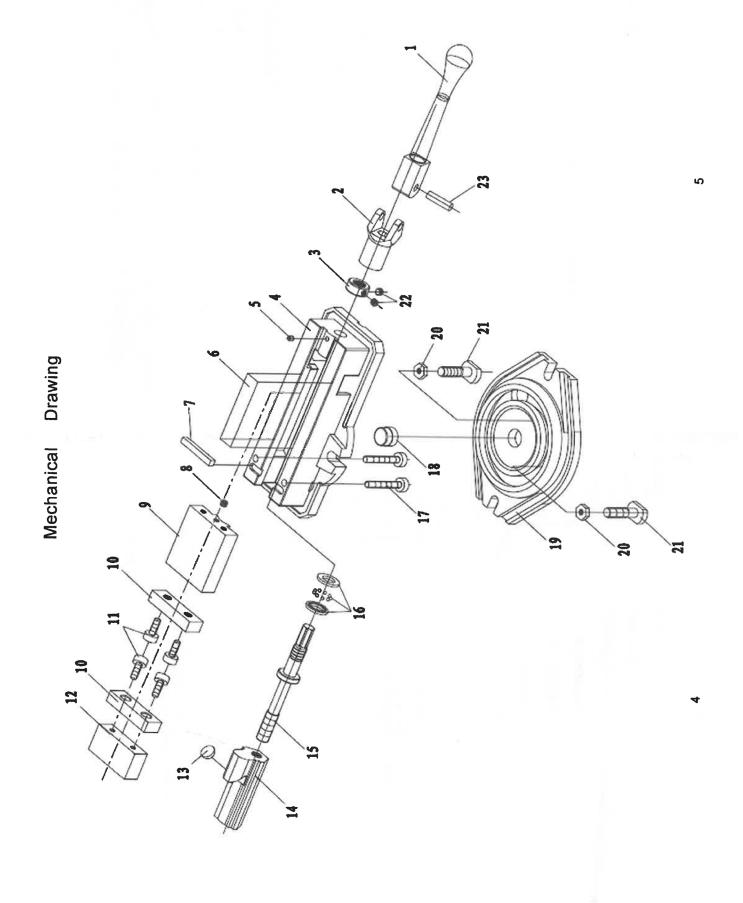
Features and Operational Principle

Features

- 1. Special design to hold the workpiece firmly.
- 2.Replaceable cranks help to hold the workpiece fast and easy.
- 3.Ensureance of paralleliam and perpendicularity when holding.

Operational Principle





Parts List

ITEM	DESCRIPTION	QTY.
1	Handle bars	1
2	Connecting handlebar bushings	1
3	Positioning nut	1
4 .	Body	1
5	Oil Cup	1
6	Chip Guard	1
7	Targeting key	2
8	Hexagon set screws	2
9	Movable Jaw	1
10	Jaw plate	2
11	Hex Socket Cap Screw	4
12	Stationary jaw	1
13	Segment	1
14	Nut	1
15	Screwl	1
16	Thrust Bearings	1
17	Hex Socket Cap Screw	2
18	Small shaft	1
19	Base	1
20	Hex nuts	2
21	T-Bolts	2
22	Hexagon set screws	2
23	Cylindrical pin	1

Detailed Parts And Process Features

Names of Parts	Materials	Technical Requirement	Parts Figure
Body	FC300	Body (guide railside) Hardening 38-42	
Base	FC300	Aging Treating	
Jaw Plate	40Cr	HB269-302 Hardening 48-52	
Jaw Plate	50Cr	HB269-302 Hardening 55-60	
Stational Jaw	FC300	Aging Treating	
Movable	FC300	Aging Treating	
Nut	FCD500	Aging Treating	
Screw	45#	HD240-265 Hardening 40-45	

Accuracy testing standard

Accuracy testing standard :

NO.	ITEM (100mm)	JIS GRADE1	GUAR- ANTEED	SCHEMATIC DIAGRAM
1	Surface of vise bed para- llel to bottom of vise body	0.020	0.008	
2	Both jaw piate parallel	0.030	0.010	
3	Keyways on bottom of vise bed square to clamping surface of jaw plate	0.015	0.010	
4	Keyways on bottom of vise bed parallel to clamping surface of jaw plate	0.015	0.010	
5	Top of rectangular test block clamped tightly by jaw parallel to bottom of visebody	0.020	0.015	
6	Floating degree ofthe workpiececlamped tightly	0.030	0.015	

Four Different Holding Manners

For workpiece with different size ,different holding manners can be selected

Model Holding Manners	LV-3"	LV-4"	LV-5"	LV-6"	LV-6"X	LV-8"
B	2-61/64"	4-5/16"	4-23/32"	6-19/64"	7-31/64"	8-37/64
B ₁	4-17/32"	5-63/64"	6-1/2"	8-21/32"	10-5/32"	10-55/64"
B ₂	6-19/64"	8-19/32"	9-23/32"	12-13/32"	13"	15-5/16"
B ₃	7-7/8"	8-3/16"	12"	14-31/32"	15-45/64"	18-1/2"

Packing List and Certificate

Packing List

Part	Description	Unit	Quantity	Remack
Precision Tooling Vise	LV-5"	PC	1.	
Base		PC	1	
Handle		SET	1	
T-Screw		SET	2	/
Positioning Key		SET	2	<u> </u>
Chip Guard		SET	1	$\sqrt{}$

Certificate

We hereby certify that each statistics of this product complies with technical standards for sale in the inspection .

Model:	LV-5"	

