

# VA513 VISE OWNER'S MANUAL





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	VA513-1	BASE, 5X13	1
2	VA56-2L	TRUCK, LEFT	1
3	VA56-2R	TRUCK, RIGHT	1
4	VA56-3B	BLOCK, BOTTOM	1
5	VA56-3T	BLOCK, TOP	1
6	VA513-4	SCREW, VA13", 16MM	1
7	VA513-5	LOW PROFILE STACKABLE CENTER BASE	1
8	VA56-6	LOCATING BLOCK	4
9	VA56-8	NUT	2
10	VA56-9	LOW PROFILE STACKABLE JAW BASE	2
11	VA56-10	WIPER SEAL	4
12	M12X35MM.LHSCS	LOW HEAD SOCKET CAP SCREW, M12X1.75X35MM	2
13	M8X025.SHCS	SOCKET HEAD CAP SCREW M8X1.25X25MM	8
14	M8X35MM.SHCS	SOCKET HEAD CAP SCREW M8X1.25X35MM	16
15	M6X6MM.SHCS	SOCKET HEAD CAP SCREW, M6X1X6MM	2
16	M5X20MM.SHCS	SOCKET HEAD CAP SCREW M5X.8X20MM	4
17	M16X30MM.DP	DOWEL PIN, M16X30MM	2
18	M6X10.DP	DOWEL PIN M6X10MM	2
19	PS20F	96MM ROCKLOCK PULL STUD (NOT SHOWN)	4



# MAINTENANCE AND USE

- Clean leadscrew with soft brush
- Use copper based anti-seize on leadscrew (Loctite P/N: LB8008C5-A)
- Do not let chips build up during use
- Do not torque vise past 60 Nm [45 Ft LBS]
- Do not side load vise (see illustration below)
- Clamping Force at max torque 22.2 kN [5000 lbf]
- Weight: 7.26 Kg [16 lbs]

#### **Torque Values**

- Lead Screw with Base Assembly: 60 Nm [45 Ft LBS] Max
- Lead Screw with Gripper Jaw: 60 Nm [45 Ft LBS] Max

#### **Special Notes**

• Failure to follow these instructions will cause self centering accuracy and/or repeatability to fail and may cause damage to the vise



### DIMENSIONS





Centering Adjustments Slot

## CONFIGURATIONS

#### Use Serrations For:

- Softer Materials (Aluminum and soft steels)
- Less Aggressive Machining





#### Use Dovetail for:

- Harder Materials
- Heavier Machining
- Parts Larger than the Vise
- Maybe used with upto 8 PS20F Pull Studs





(See next page for dovetail stock prep)

### DOVETAIL STOCK PREP

**DOVETAIL CUTTER** 



(2X/3) TO SHARP



### ACCESSORIES

- Shank Diameter (in) 1" (P/N: DC1750-45)
- Shank Diameter (mm) 25mm (P/N: DC1750-M)
- Insert Part Number: DC1750-B
- 45 Degrees
- Material H13 Tool Steel
- 5 Flute Cutter
- Cutting Diameter: 45.5mm [1.79in]



#### 96mm Pull Studs P/N: PS20F

- For 52mm Rocklock
- Hardened S7 Tool Steel
- M8 Threads

#### **Installing Pull Studs**

- Secure threaded stud finger tightly
- Only Grease precision surfaces
- Torque to 10 Ft-Ibs via bottom hex head



5<sup>th</sup>AXIS<sub>®</sub>

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# AVAILABLE FOR DOWNLOAD AT: REVA 5THAXIS.COM 03/29/24

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