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## 5<sup>th</sup>AXIS<sub>®</sub>

Workholding Evolved.

#### **VISES - FIXTURES - QUICK CHANGE SYSTEMS**



52mm RockLock

Maximum efficiency with 52mm







Reduce Setup and Changeover Time



Simple Modular Design

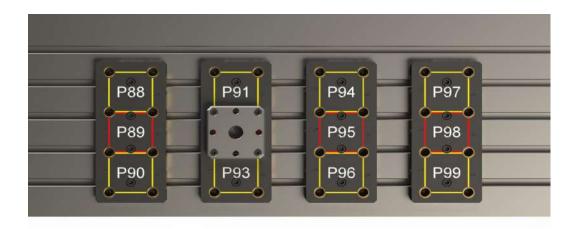


Solutions Available for 3, 4, & 5 Axis Machines



## READY TO ROCK SETUP

#### Example shown for Haas VF-2/VF-3 [GI54 Work Coordinates]



- 1. Starting with an empty machine table, install 5th Axis 3613S plates for your specific table. Thread bolts into t-nuts, but do not torque bolts.
- 2. Space plates 3" (76.2mm) apart from each other. Use a mallet to initially align and straighten plates.
- 3. Install master pallet (RL96-MP) in center position (P89, P92, P95, P98) to indicate straight. Once aligned and indicated straight, torque mounting bolts to torque specifications.
- 4. For every position, install master pallet and set X and Y axes with touch probe or indicator for each work offset position.
- 5. Set Z zero on the top mounting surface of the RockLock 3613S base for all work offsets.
- 6. R2R system is ready to use.



#### **Double Station Vises**

Part Number	DV75150X-J1	DV75150X-J2	DV75150X-J3
	5"AXIS. DV75150X	5"AXIS. DV75150X	5"AXIS, DV75150X
Fixture Size	75mm x 150mm x 56mm	75mm x 150mm x 64mm	75mm x 150mm x 64mm
Jaw Width	75mm	75mm	75mm
Jaw Set	Hardened Steel 3 Piece Master Jaw Set Serrated Dovetail	6061 Aluminum Machinable Jaw Set	1018 Steel Machinable Jaw Set
Vise Type	Double Station	Double Station	Double Station
Compatible Pull Studs	4x PS16F (Sold separately)	4x PS16F (Sold separately)	4x PS16F (Sold separately)
Additional Vise Specs	See Page 47	See Page 47	See Page 47

#### **Self-Centering Vises and Round Bar Fixture**

Part Number	V75100X	V75150X	R52-CERX-32	R52-CERX-40
	5 AXIS	STAXIS.		
Size	75mm x 100mm x 56mm	75mm x 150mm x 56mm	75mm x 75mm x 68mm	75mm x 75mm x 68mm
Jaw Width	75mm	75mm	Utilizes Standard ER32 Collet Nut	Utilizes Standard ER40 Col- let Nut
Fixture	V75100X	V75150X	CER32	CER40
Overall Clamping Range	0 - 76.3mm	0 - 128.8mm	Accepts Only ER32 Size Collet	Accepts Only ER40 Size Collet
Vise Type	Self-Centering	Self-Centering	Round Bar Fixture	Round Bar Fixture
Compatible Pull Studs	4x PS16F (Sold separately)	4x PS16F (Sold separately)	4x PS16F (Included)	4x PS16F (Included)
Additional Vise Specs	See Page 53	See Page 53	See Page 66	See Page 66



#### **Metric Dovetail Fixtures**

Part Number	R52-DM12	R52-2DM12	R52-P12DM12	
	PRAVIS	ABAXIS TO THE REPORT OF THE PARTY OF THE PAR	6'AXIS COMMIT	
Size	75mm x 75mm x 51mm	75mm x 75mm x 51mm	126mm x 126mm x 134mm	
Fixture	DM12	2x DM12	12x DM12	
Stock	12mm and Above	12mm and Above	12mm and Above	
Compatible Pull Studs	4x PS16F (Included)	4x PS16F (Included)	4x PS16F (Included)	
Additional Fixture Specs	See Page 61	See Page 61	See Page 64	

Part Number	R52-DM25	R52-P4DM25	R52-DM50
	SAXIS	SANIS COMMON TO SANIS	-SAXIS
Size	75mm x 75mm x 55mm	Ø152mm x 65mm	75mm x 75mm x 63mm
Fixture	DM25	4x DM25	DM50
Stock	25mm and Above	25mm and Above	50mm and Above
Compatible Pull Studs	4x PS16F (Included)	4x PS16F (Included)	4x PS16F (Included)
Additional Fixture Specs	See Page 61	See Page 64	See Page 61

To see the full product offering scan here:





#### **Low Profile Adapters**

Part Number	RL52A-4 RL52S-4	RL52A-4-96 RL52S-4-96	RL52A-4-TRT100
	AXIS RL52A-4 Model of this label	RL52A-4-96 Medical frie Dije	AXIS RUZZA 4 TRY 1000
Size	Ø116mm x 25mm	Ø116mm x 25mm	Ø116mm x 25mm
Subcategory	Low Profile Adapter	Low Profile Adapter	Low Profile Adapter
Materials	Aluminum (RL52A-4) or Steel (RL52S-4)	Aluminum (RL52A-4-96) or Steel (RL52S-4-96)	Aluminum (RL52A-4-TRT100)
Mounting	Drill Your Own M10 @ 50mm-100mm	2x M10 SHCS @ 96mm	HAAS TRT 100
Additional RockLock Specs	See Page 8	See Page 8	See Page 8

#### **Low Profile Adapters and Integrated Tombstone**

	7 100 7 100 0 101 0 10			
Part Number	RL52A-44 RL52A-4560 RL52A-A96 RL52S-44 RL52S-4560		RL52A-T31	
	¥5°AXIS	STAXIS STEPHON	*5'AXIS	MIS. SAPATE
Size	103.5mm x 103.5mm x 25mm	122.0mm x 102.1mm x 25mm	124.0mm x 124.0mm x 25mm	Ø160mm x 167mm
Subcategory	Low Profile Adapter	Low Profile Adapter	96mm to 52mm Adapter	52mm Integrated Tombstone 96mm Base
Materials	Aluminum (RL52A-44) or Steel (RL52S-44)	Aluminum (RL52A-4560) or Steel (RL52S-4560)	Aluminum (RL52A-A96)	Aluminum (RL52A-T31)
Mounting	2x SB1210 (Included) and 2x M12 or 1/2" @ Ø82mm 90°	4x M10 @ Ø116mm 60°	96mm Spacing and Includes 4x PS20F	96mm Spacing and Includes 4x PS20F
Additional RockLock Specs	See Page 9	See Page 9	See Page 9	See Page 9



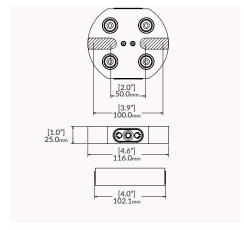
#### **RL52A-4**/ **RL52S-4**



Size: Ø116mm x 25mm Bolt Pattern: Drill Your Own Custom M10 @ 50mm-100mm **Material Construction:** Aluminum (RL52A-4) Steel (RL52S-4)

This circular RockLock adapter is built for small and medium sized rotaries and trunnions with 50mm to 100mm bolt circle.

Repeatability of +/- 8 µm.



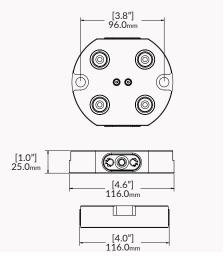
#### RL52A-4-96 / RL52S-4-96



Size: Ø116mm x 25mm **Bolt Pattern:** 2x M10 SHCS @ 96mm **Material Construction:** Aluminum (RL52A-4-96) Steel (RL52S-4-96)

This circular RockLock adapter is built for small and medium sized rotaries and trunnions with 96mm bolt circle.

Repeatability of +/- 8 µm.

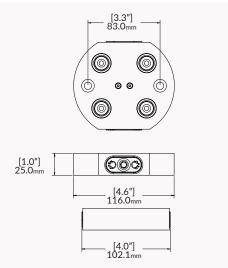


**RL52A-4-TRT100** Size: Ø116mm x 25mm Bolt Pattern: 2x 5/16" @ 82.98mm **Material Construction:** Aluminum (RL52A-4-TRT100)



This circular RockLock adapter is built for the Haas TRT100 trunnion.

Repeatability of +/- 8 µm.



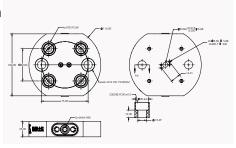
#### RL52A-4-12



Size: 116mm x 100mm x 25mm Bolt Pattern: 2x M12 at 180° on 75mm **PCD** 

**Material Construction:** Aluminum (A)

This circular RockLock adapter is built for small and medium sized rotaries and trunnions with 75mm bolt circle.



#### **Low Profile Adapters**



#### RL52A-44 / RL52S-44



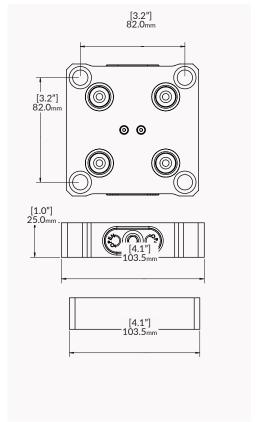
Size: 103.5mm x 103.5mm x 25mm Spacing: 2x SB1210 (Included) and 2x M12 or 1/2" @ Ø82mm 90°. Through hole Ø12.02mm Material Construction:

Aluminum (RL52A-44) Steel (RL52S-44)

This square low profile adapter is built for custom tombstones.

Ships with 2x shoulder bolts (SB1210) for locating.

Repeatability of +/- 8 μm.



#### RL52A-4560 / RL52S-4560



**Size:** 122.0mm x 102.1mm x

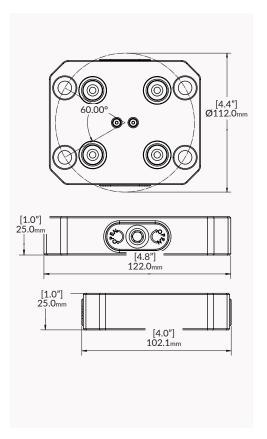
25.0mm

Spacing: 4x M10 @ Ø116mm Material Construction: Aluminum (RL52A-4560) Steel (RL52S-4560)

This rectangular low profile adapter is built for small and medium sized rotaries with 60-degree T-slot spacing.

Ships with 2x rounded T-Slot nuts (14mm x M10) for maximum bolt circle capability.

Repeatability of +/- 8 μm.



#### **Adapters & Integrated Tombstones**

#### **RL52A-A96**





#### **RL52A-T31**



RL52A-P330
3-Sided Integrated
RockLock Pyramid



Size: 124.0mm x 124.0mm x 25.0mm Bolt Pattern: 96mm Spacing and

## Includes 4x PS20F Material Construction: Aluminum (RL52A-A96)

The RL52A-A96 allows for the quick and easy conversion between the 96mm system and the 52mm system.

96mm spacing on the bottom of the unit and the integrated 52mm system on the top quickly adapts 52mm top tooling to the 96mm risers and adapters.

The unit includes 4x PS20F and 96mm RockLock pattern on the bottom for mounting to any RL96 base.

Repeatability of +/- 8 µm.

Size: Ø160mm X 167.0mm Spacing: Includes 4x PS20F Material Construction: Aluminum (RL52A-T31)

This 3-sided integrated RockLock tombstone can be mounted onto any RL96 base.

52mm spacing on the 3 faces of the tombstone. 96mm spacing on the bottom of the tombstone.

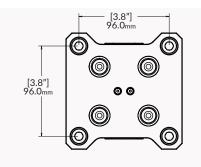
4x PS20F are included.

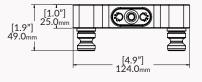
Repeatability of +/- 8 µm.

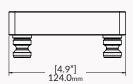
Size: Ø210.00mm x 85mm Mounting Pattern: 96mm RockLock Material Construction:

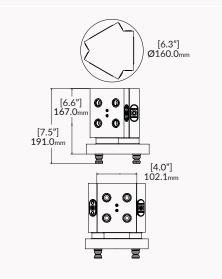
Aluminum (A)

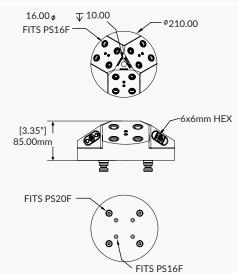
The RL52A-P300 is a 3-sided (52mm quick change) pyramid ideal for increasing throughput on multiaxis machines. This pyramid was designed and optimized to work with 5 axis universal machines as well as robotic pallet changers.















#### **PS16F**

**PULL STUD** 

Size: 52mm Pull Studs

Material Construction: S7 Tool Steel

The PS16F is necessary to use any 5th Axis 52mm base. The 52mm spacing on 5th Axis vises and adapters allow for compatibility with other competitive systems.

\*Please note that pull studs must stay with the corresponding company's base plate. If you are using a 5th Axis 52mm RockLock base plate you will need 5th Axis pull studs (PS16F). The spacing and thread allows the top tooling to be interchangeable between the competitive systems.



#### PS16F-PY

SINGLE PULL STUD WITH POKA-YOKE INSERT

Size: 52mm Pull Studs

Material Construction: S7 Tool Steel

Poka-yoke is a Japanese term that means "mistake-proofing" or "inadvertent error prevention". The PS16F-PY is a single modified pull stud with an aluminum ring. The ring is placed inside one of the locating holes in the RockLock base, allowing for only the single pokayoke pull stud to fit inside the locating hole with the corresponding ring. This will prevent operators from changing the orientation and misloading a part.



#### PS16F-4PY

**PULL STUDS WITH POKA-YOKE INSERT** 

Size: 52mm Pull Studs

Material Construction: S7 Tool Steel

3x Standard PS16F Pull Studs and one Poka-Yoke (PS16F-PY).





#### **R52-BLANK**

Size: 52mm Pull Studs

**Material Construction:** 6061 Aluminum

Blank 6061 aluminum block with 4x PS16F pull studs included. Quickly build your own fixture / subplate with the R52-Blank.



#### **R52-HTS**

Size: 52mm Pull Studs

Material Construction: 6061 Aluminum

Quick change adapter for the Renishaw OTS Tool Setter. Accurately remove and relocate the tool probe when its not in use. The part number includes the adapter plate and 4x PS16F pull studs.

\*Requires any 52mm RockLock base unit.

\*\*Tool setter sold separately.



#### RL52-MP

**52mm Master Pallet** 

Size: 52mm Pull Studs

Material Construction: 4140 Steel

Mount the RockLock base onto the machine, drop in the master pallet, dial in your setup, and torque your mounting bolts once you have reached the desired location. This is the fastest, most accurate way to set up the RockLock system. Use the bore to find center and the edge to set rotation.

See page 33 for more info.

#### 96mm RockLock Overview



96mm RockLock

Maximum efficiency with 96mm









Simple Modular Design



Solutions Available for 3, 4, & 5 Axis Machines





# ROCKLOCK™ QUICK CHANGE SYSTEM

- Repeatability less than 8 µm
- Industry standard 96mm pull stud spacing
- Steel or aluminum body construction











Patented free float design ensures equal force on all 4 pull studs.
Compatible with other 96mm 4 pull stud systems. Simply change out the pull studs to ensure that the manufacturer's base plate and pull studs match.



#### **RockLock 96mm Compatible Self-Centering Vises**

Part Number	V562X	V510X
	5 AXIS	5"AXIS VS10X
Size	126mm x 152mm x 74mm	126mm x 254mm x 74mm
Compatible Pull Studs	4x PS20F (Sold separately)	4x PS20F (Sold separately)
Overall Clamping Range	0 - 153.6mm	0 - 254.8mm
Additional Vise Specs	See Page 53	See Page 53

Part Number	R96-V75100X	R96- 2V75100X	R96-V75150X	R96- 2V75150X	R96- V75100T4	R96-V75XT4
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Size	125mm x 126mm x 88mm	150mm x 177mm x 78mm	126mm x 150mm x 88mm	150mm x 177mm x 78mm	126mm x 126mm x 267mm	126mm x 126mm x 200mm
Vise	V75100X	2x V75100X	V75150X	2x V75150X	Compatible with V75100X (Vises Sold Separately)	Compatible with V75100X, V75150X, & DV75150X (Vises Sold Separately)
Vise Overall Clamping Range	0 - 76.3mm	N/A	0 - 128.8mm	N/A	N/A	N/A
Compatible Pull Studs	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Included)
Vise Type	Self-Centering	Self-Centering	Self-Centering	Self-Centering	Self-Centering	Self-Centering or Double Station
Additional Vise Specs	See Page 53	See Page 53	See Page 53	See Page 47	See Page 33	See Page 33



#### **RockLock 96mm Double Station Vises**

Part Number	R96- DV75150X-J1	R96- 2DV75150X-J1	DV56-J1*	DV510-J1*	DV510-J4*
	SAXIS COMMENTS	SAXIS TO ASTAXIS	*5 AXIS	5'AXIS SAGE LO	5 AXIS Della
Size	126mm x 150mm x 88mm	150mm x 177mm x 78mm	126mm x 152mm x 73mm	126mm x 258mm x 73mm	126mm x 258mm x 73mm
Vise	DV75150X-J1	2x DV75150-J1	DV56-J1	DV510-J1	DV510-J4
Jaw Set	Hardened Steel 3 Piece Master Jaw Set	Hardened Steel 3 Piece Master Jaw Set	Hardened Steel 3 Piece Master Jaw Set	Hardened Steel 3 Piece Master Jaw Set with 2 inch center	Hardened Steel 3 Piece Master Jaw Set with 1 inch center
Compatible Pull Studs	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Sold separately)	4x PS20F (Sold separately)	4x PS20F (Sold separately)
Vise Type	Double Station	Double Station	Fixed Jaw / Double Station	Fixed Jaw / Double Station	Fixed Jaw / Double Station
Additional Vise Specs	See Page 45	See Page 47	See Page 48	See Page 49	See Page 49

Part Number	R96- DV75150X- J2	R96- 2DV75150X- J2	DV56-J2*	DV510-J2*	R96- DV75150X- J3	R96- 2DV75150X- J3	DV56-J3*	DV510-J3*
	SAXIS SAXIS	AND ASSESSED OF THE PARTY OF TH	SAIG	5 AXIS	OAK PAKE		SAXIS	5'AXIS
Size	126mm x 151mm x 88mm	150mm x 177mm x 78mm	126mm x 152mm x 89mm	126mm x 258mm x 89mm	126mm x 151mm x 88mm	150mm x 177mm x 78mm	126mm x 152mm x 89mm	126mm x 258mm x 89mm
Vise	DV75150-J2	2x DV75150-J2	DV56-J2	DV510-J2	DV75150-J3	2x DV75150-J3	DV56-J3	DV510-J3
Jaw Set	6061 Aluminum Soft Jaw Set	6061 Aluminum Soft Jaw Set	6061 Aluminum Soft Jaw Set	6061 Aluminum Soft Jaw Set	1018 Steel Machinable Jaws	1018 Steel Machinable Jaws	1018 Steel Machinable Jaws	1018 Steel Machinable Jaws
Compatible Pull Studs	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Sold separately)	4x PS20F (Sold separately)	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Sold separately)	4x PS20F (Sold separately)
Vise Type	Double Station	Double Station	Double Station	Double Station	Double Station	Double Station	Double Station	Double Station
Additional Vise Specs	See Page 47	See Page 47	See Page 48	See Page 50	See Page 46	See Page 46	See Page 46	See Page 46



#### **Dovetail Fixtures**

Part Number	R96-DM12	R96-2DM12	R96-P12DM12	R96-DM25
	57AXIS Meline	FAXIS COME		SAIS
Size	126mm x 126mm x 67mm	126mm x 126mm x 67mm	126mm x 126mm x 133mm	126mm x 126mm x 75mm
Fixture	DM12	2x DM12	12x DM12	DM25
Stock Size	12mm and Above	12mm and Above	12mm and Above	25mm and Above
Compatible Pull Studs	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Included)
Additional Fixture Specs	See Page 64	See Page 64	See Page 64	See Page 61

#### **Dovetail Fixtures**

Part Number	R96-P4DM25	R96-DM50	R96-D115T41	R96-CERX-40
		O TOTALS TO THE STATE OF THE ST	VE AXIS	Provis
Size	Ø152mm x 65mm	126mm x 126mm x 76mm	126mm x 126mm x 107mm	126mm x 126mm x 81mm
Fixture	4x DM25	DM50	4x D115 *Fixtures sold separate*	CER40
Stock Size	25mm and Above	50mm and Above	25mm and Above	Utilizes Standard ER40 Collet Nut
Compatible Pull Studs	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Included)	4x PS20F (Included)
Additional Fixture Specs	See Page 64	See Page 60	See Page 34	See Page 66

To see the full product offering scan here:





#### **Low Profile Bases**

Part Number	RL96A-56 RL96S-56	RL96A-6760 RL96S-6760	RL96A-6790 RL96S-6790	RL96A-67 RL96S-67	RL96S-67M	RL96A-60100 RL96S-60100	RL96A-66 RL96S-66
	X5'AXIS	SAMS OF THE SAME	-3A05	*5AXIS		ASANS O	STAXIS TO STATE OF THE STATE OF
Size	158mm x 126mm x 30mm	174mm x 158mm x 30mm	156mm x 158mm x 30mm	158mm x 176mm x 30mm	158mm x 176mm x 30mm	158mm x 150mm x 30mm	158mm x 150mm x 30mm
Subcategory	Low Profile Adapter	Low Profile Adapter	Low Profile Adapter	Low Profile Adapter	Low Profile Adapter	Low Profile Adapter	Low Profile Adapter
Materials	Aluminum (RL96A-56) or Steel (RL96S-56)	Aluminum (RL96A-6760) or Steel (RL96S-6760)	Aluminum (RL96A-6790) or Steel (RL96S-6790)	Aluminum (RL96A-67) or Steel (RL96S-67)	Steel (RL96S-67M)	Aluminum (RL96A-60100) or Steel (RL96S-60100)	Aluminum (RL96A-66) or Steel (RL96S-66)
Mounting	2x M12 SHCS @ 100mm - 101.6mm	4x M12 @ Ø170.0mm 60°	4x M10 @ Ø184.5mm 90°	4x 1/2" SB @ 6.0" x 4.0"	4x M12 SB @ 150mm x 100mm	4x M10 @ Ø100mm 90°	Drill your own mounting holes
Additional RockLock Specs	See Page 20	See Page 20	See Page 21	See Page 21	See Page 21	See Page 22	See Page 22

#### **Risers**

Part Number	RL96A-38	RL96A-411	RL96A-3915	RL96A-4816	
	EPAXIS, Alberties.		ASAXIS ANNO	S'AXIS UND	
Size	Ø 201.9mm x 75.0mm	Ø 276mm x 100mm	381mm x 230mm x 80mm	400mm x 200mm x 100mm	
Subcategory	Single Position Riser	Single Position Riser	Multi-Position Riser	Multi-Position Riser	
Materials	Aluminum (RL96A-38)	Aluminum (RL96A-411)	Aluminum (RL96A-3915)	Aluminum (RL96A-4816)	
Mounting	4x M12 bolts @ 90° on Ø 178.0mm or 3x M12 bolts @ 120° on Ø 178.0mm	4x M12 bolts @ 90° on Ø 9.92"	4x M16 bolts @ 200mm square	4x M12 @ 320mm x 160mm rectangle (80mm T-slots) or 4x M16 @ 360mm x 126mm rectangle (63mm T-slots)	
Additional RockLock Specs	See Page 23	See Page 23	See Page 24	See Page 24	



#### **Multi-Position Plates**

Part Number	RL96A-3613S1	RL96A-3613S2	RL96A-3613S3	
	*5AXIS	YSAXIS MER	ASAXIS	
Size	158mm x 338mm x 30mm	158mm x 338mm x 30mm	158mm x 338mm x 30mm	
Subcategory	Multi-Position Horizontal Plate	Multi-Position Horizontal Plate	Multi-Position Horizontal Plate	
Materials	Aluminum (RL96A-3613S1)	Aluminum (RL96A-3613S2)	Aluminum (RL96A-3613S3)	
Mounting	2x M12 SHCS @ 96mm or 250mm	4x M12 SHCS Equally Spaced @ 80mm	4x M12 SHCS Equally Spaced @ 100mm	
Additional RockLock Specs	See Page 25	See Page 25	See Page 25	

#### **Tombstones, Right Angle Plate, and Single Position Riser**

Part Number	RL96A-4004U	RL96A-3002 RL96S-3002	RL96A-3003 RL96S-3003	RL96A-90DEG	RL96A-356* RL96S-356*
				0 0	
Size	230mm x 230mm x 600mm	300mm x 300mm x 400mm	300mm x 300mm x 400mm	149.4mm x 158mm x 200mm	158mm x 126mm x 75mm
Subcategory	96mm Integrated Tombstone	96mm Integrated Tombstone	96mm Integrated Tombstone	Right Angle Plate	Single Position Riser
Materials	Aluminum	Aluminum (RL96A-3002) or 1018 Steel (RL96S-3002)	Aluminum (RL96A-3003) or 1018 Steel (RL96S-3003)	Aluminum (RL96A- 90DEG)	Aluminum (RL96A-356) or Steel (RL96S-356)
Mounting	80mm Grid 100mm Grid	Machine Specific*	Machine Specific*	4x PS20F (Included) or 2x M12 SHCS @ 100mm - 101.6mm (4")	4x PS20F (Included)
Additional RockLock Specs	See Page 31	See Page 29	See Page 29	See Page 30	See Page 30



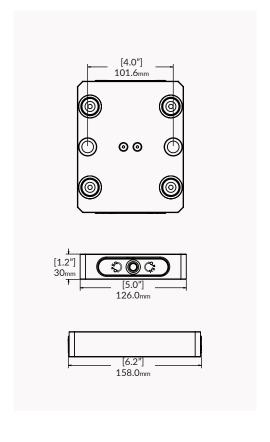
#### RL96A-56 / RL96S-56





The adapter has two enlarged counterbores to allow mounting from 100mm to 101.6mm for M12 or 1/2-13 SHCS for simple mounting to T-slots.

Repeatability of +/- 8 µm.



#### RL96A-6760 / RL96S-6760

**Size:** 174mm x 158mm x 30mm **Spacing:** 4x M12 @ Ø170.0mm on 60°



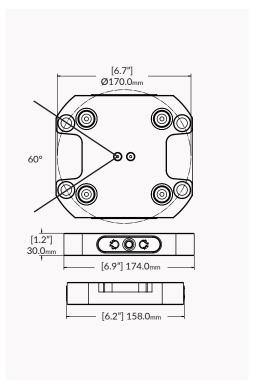
Aluminum (RL96A-6760) Steel (RL96S-6760)



The RL96-6760 series quick change adapter was built for the Haas TR-210 series rotaries, Hurco VMX30 series rotaries, and any other rotary with 60 degree radial T-slots.

A quick turn of the wrench actuates the cam mechanism to lock and release your fixtures and vises for fast changeover.

Repeatability of +/- 8 µm.





#### RL96A-6790 / RL96S-6790

Size: 156mm x 158mm x 30mm Spacing: 4x M10 @ Ø184.5mm **Material Construction:** 

Aluminum (RL96A-6790) Steel (RL96S-6790)

The RL96-6790 quick change adapter was built for any rotary with 90 degree radial T-slots.

A quick turn of the wrench actuates the cam mechanism to lock and release your fixtures and vises for fast changeover.



Repeatability of +/- 8 µm.

#### RL96A-67 / **RL96S-67**

Size: 158.0mm x 176.0mm x 30mm Spacing: 4x 1/2" SB @ 6.0" x 4.0". Through hole Ø0.501"

**Material Construction:** 

Aluminum (RL96A-67) Steel (RL96S-67)



The RL96-67 was built specifically for horizontal machining centers.

Bolt pattern 6.0" x 4.0" allows for easy mounting to most standard tombstone grid pattern spacing.

Repeatability of +/- 8 µm.

#### **RL96S-67M**

**Size:** 158.0mm x 176.0mm x 30mm Spacing: 4x M12 @ 150.0mm x 100.0mm. Through hole Ø12.02mm **Material Construction:** 

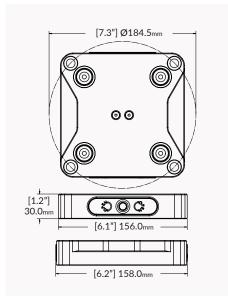
Steel (RL96S-67)

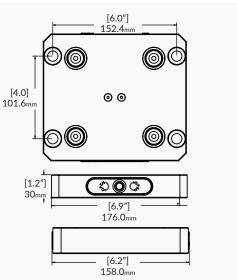


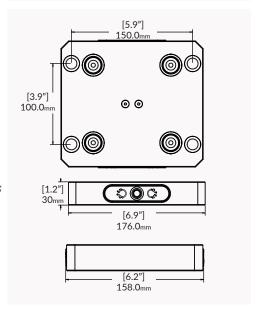
The RL96-67M was built specifically for tombstones on horizontal machining centers.

Bolt pattern 150mm x 100mm allows for easy mounting to most standard tombstone grid pattern spacing.

Repeatability of +/- 8 µm.









#### RL96A-60100 / RL96S-60100

Size: 158mm x 150mm x 30mm Spacing: 4x 100mm Material Construction: Aluminum (RL96A-60100) Steel (RL96S-60100)



The RL96-60100 series quick change adapter was built with 4x counterbores with 100mm spacing. Fitments include the new Haas TRT160 and many others.

Repeatability of +/- 8 µm.

RL96A-66/ RL96S-66 Size: 158mm x 150mm x 30mm Spacing: Drill your own Material Construction: Aluminum (RL96A-66) Steel (RL96S-66)



The RL96-66 series quick change adapter was built to accommodate a variety of machines that are not part of our standard offering. The blank adapter allows for drilling your own mounting holes.

Repeatability of +/- 8 µm.

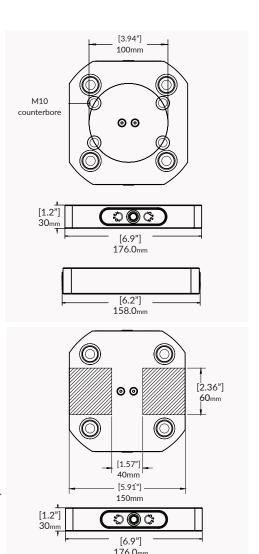
#### RL96A-DDR / RL96S-DDR

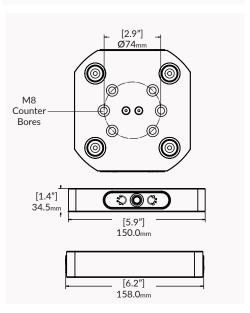
Size: 150mm x 158mm x 34.5mm Spacing: Specific to DDR Material Construction: Aluminum (RL96A-DDR) Steel (RL96S-DDR)



The RL96-DDR was built for the Fanuc DDR rotary table.

Repeatability of +/- 8 μm.





[6.2"] 158.0<sub>mm</sub>

#### **Single Position Risers**



#### **RL96A-38**



Size: Ø 201.9mm x 75.0mm Spacing:

4x M12 bolts @ 90° on Ø 78mm

3x M12 bolts @ 120° on Ø 178mm Material Construction:

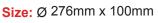
Aluminum (RL96A-38)

The RL96A-38 series quick change adapter was built for medium sized rotaries and smaller 5 axis machines (~300mm range).

With bolt patterns at 60 degrees and 90 degrees this adapter is flexible and fits on a majority of the most popular rotaries and 5 axis tables on the market.

The 3" overall height makes it ideal for smaller parts that you want to raise above the table.

Repeatability of +/- 8 µm.



Spacing:

4x 1/2-13 or M12 bolts @ 90° on Ø 252.0mm or

3x 1/2-13 or M12 bolts @ 120° on Ø 252mm

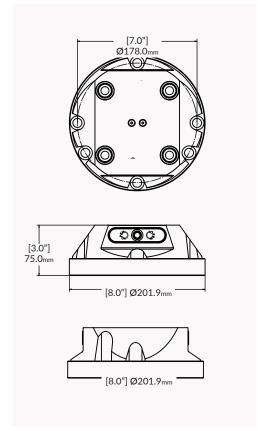
#### **Material Construction:**

Aluminum (RL96A-411)

The RL96A-411 is an integrated RockLock riser built into one of our most popular adapters.

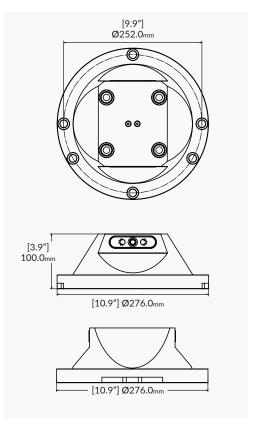
The 11" diameter adapter x 4" overall height is ideal for medium to large 5 axis machines like the DMG Mori DMU50 and DMU60 as well as the Haas UMC-750 and UMC-750SS.

Repeatability of +/- 8 µm.





RL96A-411





#### RL96A-3915

Size: 381mm x 230mm x 80mm Spacing:

4x M16 bolts @ 200mm square Material Construction:

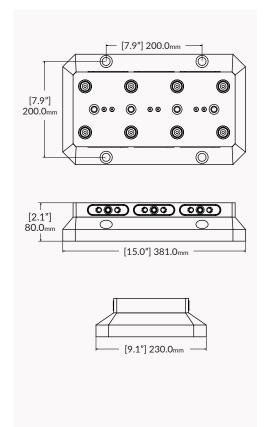
Aluminum (RL96A-3915)



The RL96A-3915 was built with larger machines in mind (400mm-500mm tables).

Utilize one singular large vise or accommodate two smaller workholding units to maximize machine efficiency and reduce changeover time.

Repeatability of +/- 8 µm.



#### RL96A-4816

Size: 400mm x 200mm x 100mm Spacing:

4x M12 @ 320mm x 160mm rectangle (80mm T-slots) or 4x M16 @ 360mm x 126mm rectangle (63mm T-slots)

Material Construction:

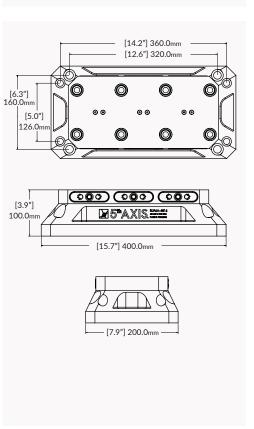
Aluminum (RL96A-4816)



The RL96A-4816 is an integrated multi-position RockLock riser built into one of the largest adapters in the product line.

Utilize one large vise or accommodate two smaller vises with this riser.

Repeatability of +/- 8 μm.



#### **Multi-Position Horizontal Plates**



[9.8"] 250.0<sub>mm</sub>

[3.8"] 96<sub>mm</sub>

● ●

#### RL96A-3613S1

**Size:** 158mm x 338mm x 30mm **Spacing:** 2x M12 SHCS @ 96mm or

#### Material Construction:

Aluminum (RL96A-3613S1)



The RL96A-3613S1 is a multi-position RockLock plate built for maximum efficiency on small to medium vertical mills. The nested RockLock 96mm pattern allows for the operator to utilize one single large vise or two smaller vises. 125mm T-slot spacing for 3 axis mills. Repeatability of +/- 8 µm.

[6.2"]

158.0

**⊘**●●

#### RL96A-3613S2

Size: 158mm x 338mm x 30mm Spacing: 4x M12 SHCS Equally

Spaced @ 80mm

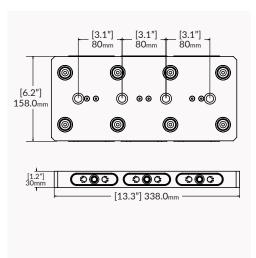
Material Construction:

Aluminum (RL96A-3613S2)



The RL96A-3613S2 is a multi-position RockLock plate built for maximum efficiency on small to medium vertical mills. The nested RockLock 96mm pattern allows for the operator to utilize one single large vise or two smaller vises. 80mm T-slot spacing for 3 axis mills.

Repeatability of +/- 8 µm.



#### RL96A-3613S3

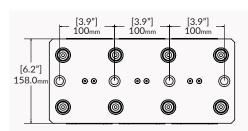
Size: 158mm x 338mm x 30mm Spacing: 4x M12 SHCS Equally Spaced @ 100mm

**Material Construction:** 

Aluminum (RL96A-3613S3)



The RL96A-3613S3 is a multi-position RockLock plate built for maximum efficiency on small to medium vertical mills. The nested RockLock 96mm pattern allows for the operator to utilize one single large vise or two smaller vises. 100mm T-slot spacing for 3 axis mills. Repeatability of +/- 8 µm.

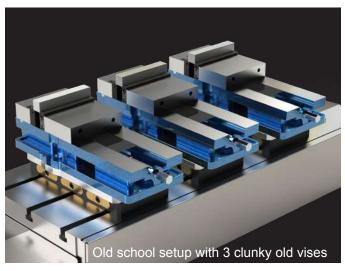




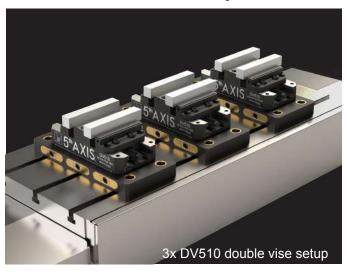


## More Parts Per Cycle = More Profit Profitability Through Efficiency

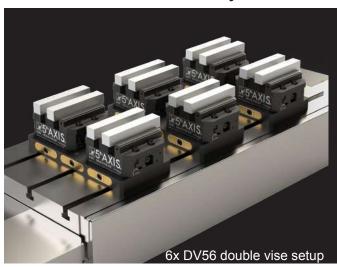
3 Parts Per Cycle



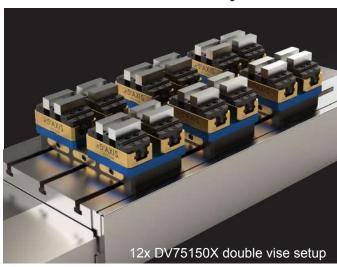
6 Parts Per Cycle



12 Parts Per Cycle



24 Parts Per Cycle



#### **Multi-Position Horizontal Plates**



## **ROCKLOCK** 96mm

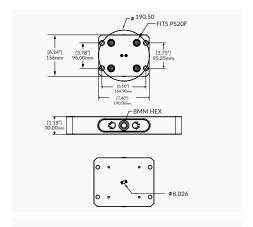
RL96S-68 / RL96A-68

96mm Low Profile Base



Size: 190mm x 156mm x 30mm Material Construction: Steel (RL96S-68) Aluminum (RL96A-68)

The RL96-68 is a 6" x 8" low profile 96mm quick change adapter plate. Designed for the new Haas TRT-210 rotary.



### **RL96A-2710** 96mm Riser



**Size:** 175mm x 240mm x 50mm **Mounting:** 4x M12 on 126mm x

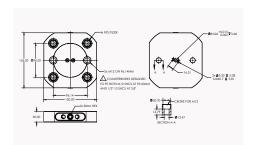
210mm grid

Material Construction: Aluminum (A)

The RL96A-2710 is a single position riser built for the new Haas UMC500. The RL96A-2710 integrates with the RockLock system for maximum changeout efficiency.



96.14mm PCD Material: Steel (S) Weight: 4 Kgs



RL96S-6695 96mm Low

RL96A-6695



The RL96S-66 series quick change adapter was built specifically for the MAM pallet on the Matsuura MAM-72 series machines.

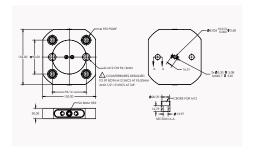
**Size:** 156mm x 150mm x 30mm **Mounting:** 2x M12 at 180° on

96.14mm PCD

Material: Aluminum (A)



The RL96A-66 series quick change adapter was built specifically for the MAM pallet on the Matsuura MAM-72 series machines.



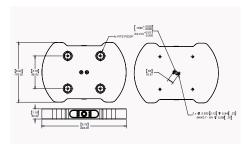
#### RL96A-10 96mm Low Profile



Size: Ø248mm x 30mm Mounting: DIY Ø248mm Material: Aluminum (A)

Weight: 2.8 Kgs

The RL96A-10 series quick change adapter was built as a DIY mounting base for medium to large rotary tables.





#### RL96A-2715

96mm Riser



**Size:** 175mm x 240mm x 50mm

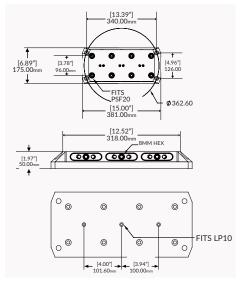
**Mounting:** 

4x M12 on 126mm x 210mm grid

Material Construction: Aluminum (A)

The RL96A-2715 is a multi-position riser built for the new Haas UMC-500.

The RL96A-2715 provides maximum changeout efficiency with the RockLock system.



#### **RL96A-488**

**Riser Adapter** 

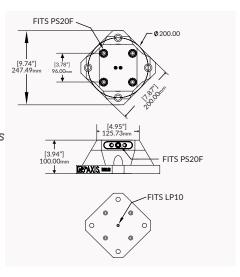


Size: 200mm x 200mm x 100mm Mounting:

4x M12 @ 90° on 200mm PCD

Material Construction: Aluminum (A)

The RL96A-488 riser adapter provides multiple mounting options to meet various application needs and functions with the RockLock system to reduce setup time.



#### **RL96A-T31**

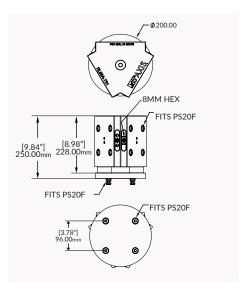
3-Sided Integrated RockLock Tombstone



Size: Ø200mm x 250mm

**Mounting**: 96mm, includes pull studs **Material Construction**: Aluminum (A)

Ideal for automated systems, the RL96A-T31 tombstone provides three mounting sides for part manufacturing. The RL96A-T31 can be mounted onto any 96mm RockLock base.





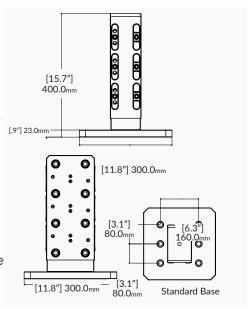
#### RL96A-3002 / RL96S-3002



Size: 300mm x 300mm x 400mm Spacing: 80 mm grid Material Construction: Aluminum (RL96A-3002) 34 Kgs

Steel (RL96S-3002) 68 Kgs

This two sided 300mm tombstone integrates the RockLock 96mm quick change system. This tombstone is perfect for mid-sized 5 axis machines. It is also a perfect fit for 300mm horizontal machining centers offered by Kitamura and Kitagawa. All units feature hardened steel internals and locating features. All tombstones are built to order, and the base plate is customized to your machine table or pallet specs. Repeatability of +/- 8 µm.



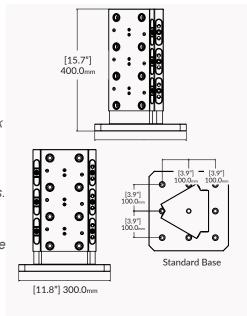
#### RL96A-3003 / RL96S-3003



Size: 300mm x 300mm x 400mm Spacing: 100 mm grid Material Construction:

Aluminum (RL96A-3003) 34 Kgs Steel (RL96S-3003) 68 Kgs

This three sided 300mm tombstone integrates the RockLock 96mm quick change system. This tombstone is perfect for mid sized 5 axis machines. It is also a perfect fit for 300mm horizontal machining centers. All units feature hardened steel internals and locating features. All tombstones are built to order, and the base plate is customized to your machine table or pallet specs. Repeatability of +/- 8 µm.





#### RL96A-90DEG





RL96A-356 / RL96S-356



Size: 149.4mm x 158mm x 200mm Spacing: RockLock PS20F or 2x M12 SHCS @ 100mm - 101.6mm Material Construction: Aluminum (RL96A-90DEG)

The 90° right angle RockLock plate is the perfect low cost solution for multi-side machining. Machine 5 sides of a part without a 5 axis machine. The unit features pull studs on the bottom so that it can be mounted onto any 96mm RockLock plate. It also has 2 counter bores for traditional mounting to machine T-slots at 4" or 100mm.

Simply machine your material, unlock the system, rotate the material, lock the system and continue machining.

Includes 4x PS20F. Repeatability of +/- 8 µm..

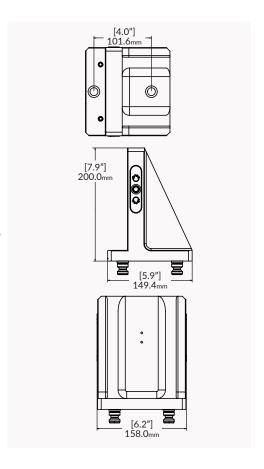
Size: 158mm x 126mm x 75mm Spacing: RockLock PS20F 96mm Material Construction: Aluminum (RL96A-356) Steel (RL96S-356)

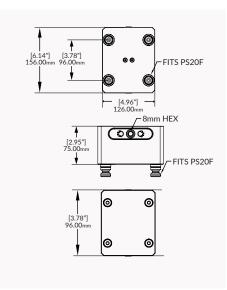
Built to give extra rise from any RockLock bases.

The small profile was created to reduce any interference.

Includes 4x PS20F.

Repeatability of +/- 8 µm.





## ROCKLOCK 96mm

#### RL96A-4004U 400mm Four-Sided RockLock™ Tombstone, Aluminum



RL96A-5004U 500mm Four-Sided RockLock™ Tombstone w/500mm Base, Aluminum



RL96A-T31
3-Sided Integrated RockLock™
Tombstone (96mm)



**Size:** 230mm x 230mm x 600mm

**Material Construction:** 

Aluminum

Mounting: 80mm grid

# of Positions: 12 total, 3 per side

Weight: 80 Kgs

This lightweight four sided 400mm tombstone integrates the RockLock 96mm quick change system. This tombstone is perfect for pallet exchange systems with low weight restrictions.

**Size:** 230mm x 230mm x 600mm

Base: 500mm

**Material Construction:** 

Aluminum

Mounting: 100mm grid

# of Positions: 12 total, 3 per side

Weight: 89 Kgs

This lightweight four-sided 500mm tombstone features the integrated RockLock 96mm quick change system. This tombstone is perfect for pallet exchangea systems with low weight restrictions. All units feature hardened steel internals and locating features. This tombstone has a baseplate with 80mm /100mm grid spacing.

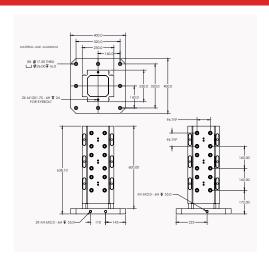
#### Size: Ø 200mm x 250mm Material Construction:

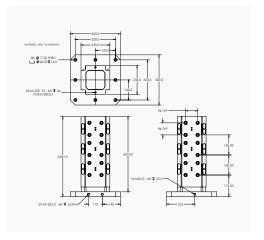
Aluminum

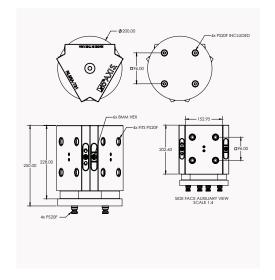
Mounting: 96mm RockLock™, includes 4x PS20F pull studs # of Positions: 3 total, 1 per side

Weight:17 Kgs

Constructed with aerospace-grade aluminum, the RockLock base embodies the perfect blend of versatility and robust durability. Its industry standard 96mm pull stud spacing ensures a seamless fit into your machining setup, reducing unnecessary bulk while maximizing workspace efficiency.







## ROCKLOCK 96mm

#### MT-4004A

400mm Four-Sided Machinable Tombstone, Aluminum



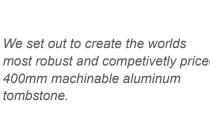
Aluminum Mounting: Machinable

Weight: 71 Kgs

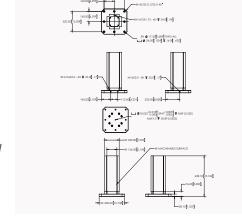
Base: 400mm x 400mm

**Material Construction:** 

most robust and competivetly priced



Size: 230mm x 230mm x 600mm



#### MT-5004A

500mm Four-Sided Machinable Base: 500mm x 500mm Tombstone, Aluminum



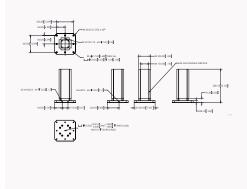
Size: 230mm x 230mm x 600mm

**Material Construction:** 

**Aluminum** 

Mounting: Machinable Weight: 80 Kgs

The MT-4004A is designed to be one of the most robust and competitively priced 400mm machinable aluminum tombstones in the world. This tombstone provides a sturdy and costeffective solution for your machining needs.



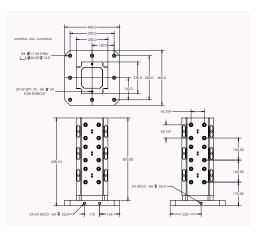
#### RL96S-4004

Tombstone, 96mm Cast Iron



Size: 230mm x 230mm x 600mm 400mm Four-Sided RockLock™ Material Construction: Cast Iron Mounting: 80mm grid/ 100mm grid # of Positions: 12 total, 3 per side Weight: 182 Kgs

> Enhance your machining efficiency with our robust four-sided 400mm CNC tombstone.



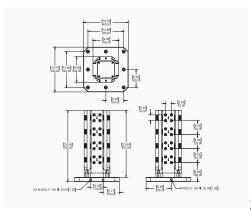
#### **RL52S-4004**

400mm Four-Sided RockLock™ Tombstone, 52mm Cast Iron Tombstone, Aluminum



Size: 230mm x 230mm x 600mm **Material Construction:** Cast Iron Mounting: 80mm grid/ 100mm grid # of Positions: 12 total, 3 per side Weight: 182 Kgs

Enhance your machining efficiency with our robust four-sided 400mm CNC tombstone.



#### 96mm Top Tooling Tombstones



#### R96-V75100T4







\*Vises sold separately

#### R96-V75XT4









\*Vises sold separately

**Size:** 125.7mm x 125.7mm x

266.7mm

Mounting: RockLock PS20F Material Construction: Aluminum (RL96A-V75100T4)

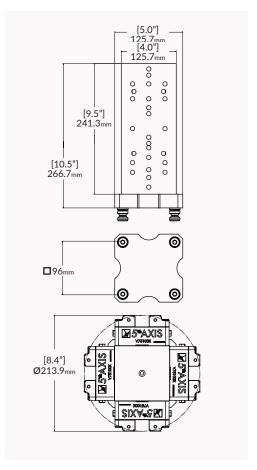
The R96-V75100T4 is an ultra compact mini tombstone designed to work with smaller 4 and 5 Axis machines. The goal was to create a 4 sided tombstone to increase productivity while maintaining a compact footprint. The tombstone is built for the V75100X selfcentering vise (see page 45). The nested bolt pattern allows for the vises to be mounted vertically or rotated horizontally. The entire tombstone will quick change onto any 96mm RockLock base plates. With a maximum of 12 vises on the tombstone, the machine can run unattended. This minimizes tool changes and frees operators up to run multiple machines. Includes 4x PS20F. Repeatability of +/- 8 µm.

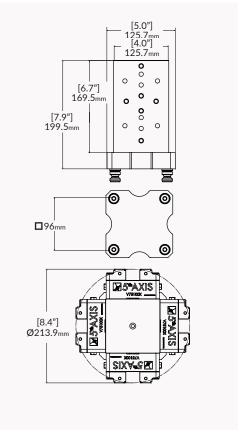
**Size:** 125.7mm x 125.7mm x

200mm

Mounting: RockLock PS20F Material Construction: Aluminum (RL96A-V75XT4)

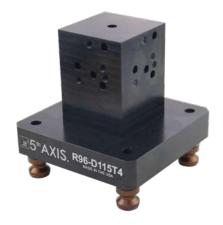
The R96-V75XT4 is a mini tombstone designed to work with smaller 4 and 5 Axis machines. The goal was to create a 4 sided tombstone to increase productivity while maintaining a compact footprint. This tombstone can accommodate the following selfcentering vises: V75100X and V75150X (see page 45). It will also fit the DV75150X double station vise (see page 39). The entire tombstone will quick change on any 96mm RockLock base plates. With a maximum of 8 vises on the tombstone, the machine can run unattended. This minimizes tool changes and frees operators up to run multiple machines. Includes 4x PS20F. Repeatability of +/- 8 μm.







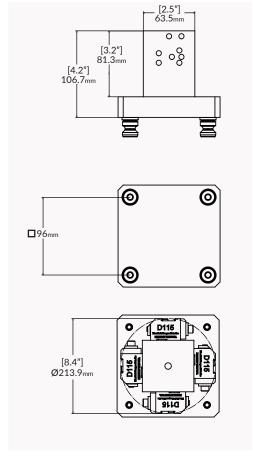
#### R96-D115T41



Size: 125mm x 125mm x 106.7mm Spacing: RockLock PS20F

Built for small or medium rotaries. Able to utilize quantity 4 D115 dovetail fixtures in order to maximize part density allowing minimal interference. Quantity 4 PS20F Pull studs are included.

Repeatability of +/- 8 µm.







\*Fixtures sold separately

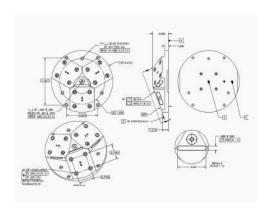
#### **RL96A-P320**



#### Integrated RockLock Pyramid

Size: 381 mm diameter x 101 mm overall height Weight: 42 Kgs

RL96A-P320 Pyramids – a cutting-edge solution designed for seamless compatibility with 96mm RockLock top tooling, elevating the versatility of your machining setup.







#### **PS20F**

**PULL STUD** 

Size: 96mm Pull Studs

Material Construction: S7 Tool Steel

The PS20F is required to use any 5th Axis 96mm base. The 96mm spacing allows for compatibility with other systems.

\*Please note that pull studs must stay with the corresponding company's base plate. If you are using a 5th Axis 96mm RockLock base plate you will need 5th Axis pull studs (PS20F). The spacing and thread allows for the top tooling to be interchangeable between the different systems.



#### PS20F-PY

SINGLE PULL STUD WITH POKA-YOKE INSERT

Size: 96mm Pull Studs

Material Construction: S7 Tool Steel

Poka-yoke is a Japanese term that means "mistake-proofing". The PS20F-PY is a single modified pull stud with an aluminum ring. The ring is placed inside one of the locating holes in the RockLock base, allowing for only the single poka-yoke pull stud to fit inside the locating hole with the corresponding ring. This will prevent operators from changing the orientation and misloading a part.



#### PS20F-4PY

**PULL STUDS WITH POKA-YOKE INSERT** 

Size: 96mm Pull Studs

Material Construction: S7 Tool Steel

3x Standard PS20F Pull Studs and one Poka-Yoke (PS20F-PY).





#### **R96-BLANK**

Size: 96mm Pull Studs

**Material Construction:** 6061 Aluminum

Blank 6061 aluminum block with quantity 4 PS20F pull studs included. Quickly build your own fixture or subplate with the R96-Blank.



#### RL96-MP

Size: 96mm Pull Studs

**Material Construction: Steel** 

Mount the RockLock base onto the machine, drop in the master pallet, dial in your setup, and torque your mounting bolts once you have reached the desired location. This is the fastest, most accurate way to set up the RockLock system.

See page 33 for more info.



#### RL96-KD688 / RL96-KDX6\*

**Size:** RL96-KD688: 330.2 x 209.55 x 19.81 mm RL96-KDX6: 330.2 x 175.76 x 19.81 mm

#### **Material Construction:**

Aluminum (RL96-KD688) Aluminum (RL96-KDX6)

The RL96-KD688 is built to upgrade your Kurt D-series 6" vise to the RockLock quick-change system. Never indicate your Kurt vise in again! Simply bolt your Kurt vise onto the adapter and you will be off and running. Part number includes adapter + 4x PS20F pull studs.

The RL96-KDX6 is built for the newer style DX6 crossover vise. Upgrade your new Kurt DX6 to RockLock quick-change system from 5th Axis. Part number includes adapter quantity 4 PS20F pull studs.







5th Axis Workholding products are designed to adapt to automated systems increasing throughput. Create profitability through efficiency.









148mm

320mm

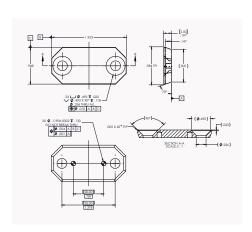
400mm



### **AS-96** 96mm Custom Gripper

Automation Solutions, Gripper Assembly, 96mm

industrial robot automation.



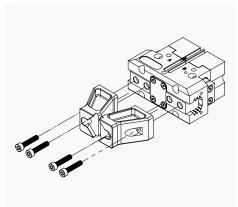


# AG-12

52mm Custom Gripper

Automation Solutions, Gripper Assembly, 52mm

industrial robot automation.





### **Automation Solutions**



Available in 52mm and 96mm Pull Stud Spacing



Clamp / Unclamp Confirmation



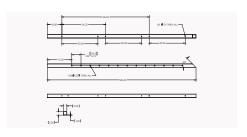
Steel Locating Features





# **AS-RS**Automation Rack Shelf

Single Shelf for Automation Racks.

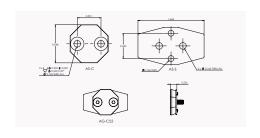




### AG-C

52mm Low Profile Cleat

Our innovative cleat design simplifies and secures the movement of tooling using robotic systems.

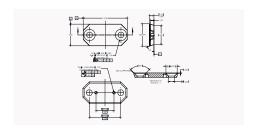




# AS-C96 96mm Low Profile Cleat

Our innovative cleat design simplifies

and secures the movement of tooling using robotic systems.





AS-R3 Single Rack & Shelf Kit

Single Rack & Shelf Kit with 3-shelf assembly.





### **RL52P-66B**



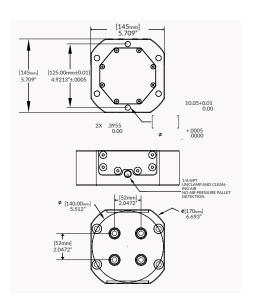
The RL52P-66B is a 52mm pneumatic RockLock unit.

### Working pressure range:

80 PSI (.55 MPa) MIN / 120 PSI (.83 MPa) MAX

### Side-Port

- 52mm pull stud spacing
- Air to open / spring to close
- Built for manual operation
- 1 port for clamp / unclamp
- No cleaning air / clamp confirmation



### RL52P-66A Bottom-Port

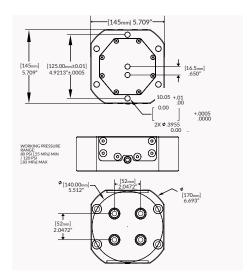


The RL52P-66A is a 52mm pneumatic RockLock unit that uses air to open and spring to close.

### Working pressure range:

80 PSI (.55 MPa) MIN / 120 PSI (.83 MPa) MAX

- 52mm pull stud spacing
- Air to open / spring to close
- Built for automation applications
- 1 port for clamp / unclamp
- 1 port for cleaning / clamp confirmation



### RL96P-67B Side-Port

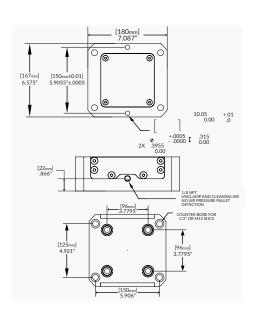


The RL96P-67B is a 96mm pneumatic RockLock unit.

### Working pressure range:

80 PSI (.55 MPa) MIN / 130 PSI (.86 MPa) MAX

- 96mm pull stud spacing
- Air to open / spring to close
- Built for manual operation
- 1 port for clamp / unclamp
- No cleaning air / clamp confirmation





### **RL96P-67A**



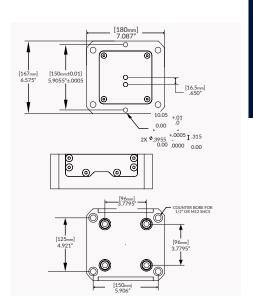
The RL96P-67A is a 96mm pneumatic RockLock unit that uses air to open and spring to close.

### Working pressure range:

80 PSI (.55 MPa) MIN / 130 PSI (.86 MPa) MAX

### **Bottom Port**

- 96mm pull stud spacing
- Air to open / spring to close
- Built for automation applications
- 1 port for clamp / unclamp
- 1 port for cleaning / clamp confirmation



### **RL52E-66**



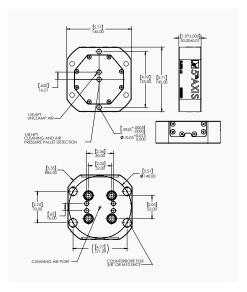
The RL52E-66 is a 52mm pneumatic RockLock unit that uses air to open and spring to close.

### Working pressure range:

80 PSI (.55 MPa) MIN / 130 PSI (.86 MPa) MAX

### **Bottom Port**

- 52mm pull stud spacing
- Air to open / spring to close
- Built for automation applications
- 1 port for clamp / unclamp
- 1 port for cleaning / clamp confirmation



### **RL96E-67**



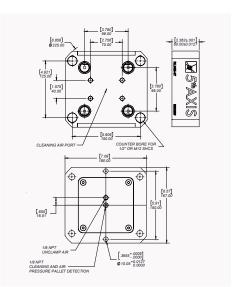
The RL96E-67 is a 96mm pneumatic Chuck with Ejectors RockLock<sup>TM</sup> unit that uses air to open and spring to close.

### Working pressure range:

80 PSI (.55 MPa) MIN / 130 PSI (.86 MPa) MAX

### **Bottom Port**

- 96mm pull stud spacing
- Air to open / spring to close
- Built for automation applications
- 1 port for clamp / unclamp
- 1 port for cleaning / clamp confirmation





### **Master Alignment Pallet**





Available in 96mm and 52mm



Ensures RockLock repeatability less than 8 µm



Precision milled and press fit pull studs\*



One Master Pallet for all your RockLock systems

Guarantees accuracy of the RockLock system. The Master Pallets are used to set up 52mm and 96mm RockLock systems.

Mount the RockLock base onto the machine, drop in the Master Pallet, dial in your setup, and torque your mounting bolts once you have reached the desired location.

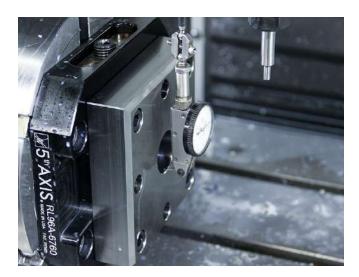
Master Pallet will only be used on the initial setup or if you move the setup from one machine to another. This is the fastest, most accurate way to set up the RockLock system.

<sup>\*</sup>Do not remove pull studs.

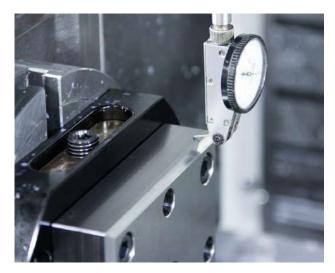
<sup>\*\*</sup>Instructional video provided on our website.

<sup>\*\*\*</sup>CMM report provided with purchase of Master Pallet.





Precision center bore allows for indication of rotation.



Precision milled sides allow for indication of center line.

### **Master Pallets**

Part Number	RL52-MP	RL96-MP
	5th AXIS, RL52-MP	5th AXIS RIGHT
Size	75mm x 75mm x 25.4mm	125.73mm x 125.73mm x 30.48mm
Mounting	RockLock PS16F Pull Studs Included	RockLock PS20F Pull Studs Included
Materials	Steel	Steel

### **Double Station Vises**

# **BUILT FOR 3-AXIS**



Convert from double station to single position fixed jaw\*

Quickly change jaws / convert to soft jaws

Compact footprint maximizes table space

\*Not a self-centering vise\*



**Double Station** 



Single Station Fixed Jaw



Machinable Jaws

<sup>\*</sup>Only applies to DV56 and DV510

### **Quickly Convert From Double To Single Fixed Station\***



### **Double Station**

This configuration utilizes the center portion as the fixed position.



### **Independent Movement**

Each jaw moves independently. This allows for stock of different sizes and ensures proper clamping.



### **Reversible Jaw**

Jaws can quickly and easily be reversed for increased clamping range.



### **Removing Center Jaw**

The center jaw is bolted through the base and held in position with precision bushings.



### Shoulder Bolts Lock Back Jaw

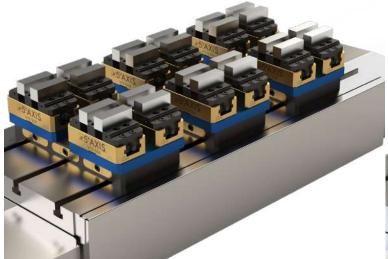
The vise base has two precision bores that allow for shoulder bolts to lock the back jaw when switching to a single station.

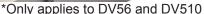


### Fixed Jaw\*

In this configuration the vise operates like any traditional machine vise.
\*DV56 and DV510 only

# Maximize Your Table Space







### **Double Station Vises**

### **Master Hard Jaws**

Part Number	DV75150X-J1	DV56-J1	DV510-J1	DV510-J4
	X5"AXIS.	5"AXIS	5th AXIS. COUNTY OF COUNTY OF COURT OF COUNTY	5 <sup>th</sup> AXIS.
Size	75mm x 150mm x 56mm	125.7mm x 152.4mm x 72.9mm	125.7mm x 258.3mm x 73.4mm	125.7mm x 258.3mm x 73.4mm
Jaw Type	Hardened Steel 3 Piece Master Jaw Set Serrated / 45° Dovetail	Hardened Steel 3 Piece Master Jaw Set Serrated / 45° Dovetail	Hardened Steel 3 Piece Master Jaw Set with 2" Center Serrated / 45° Dovetail	Hardened Steel 3 Piece Master Jaw Set with 1" Center Serrated / 45 ° Dovetail
Jaw Width	75mm	125.7mm	125.7mm	125.7mm
Clamping Force	13.5 kN @ 60 Nm	20.0 kN @ 75 Nm	20.0 kN @ 75 Nm	20.0 kN @ 75 Nm
Max Torque	60 Nm	75 Nm	75 Nm	75 Nm
Forward Clamping Range	0 - 37.02mm	0 - 28.5mm	0 - 66.7mm	0 - 79.4mm
Reverse Clamping Range	17.26mm - 55.02mm	31.0mm - 64.2mm	30.9mm - 102.3mm	30.9mm - 115mm
Single Station Forward Clamping Range	N/A	0 - 75.9mm	0 - 177.5mm	0 - 177.5mm
Single Station Reverse Clamping Range	N/A	56.8mm - 147.3mm	56.8mm - 248.7mm	56.8mm - 248.7mm



DV75150X-J1 shown on the RL96A-3613S1 base plate

### **Aluminum Jaws**

Part Number	DV75150X-J2	DV56-J2	DV510-J2
	5"AXIS. DATS 150X	5"AXIS	5 <sup>th</sup> AXIS
Size	75mm x 150mm x 64.1mm	125.7mm x 152.4mm x 89mm	125.7mm x 258.3mm x 88.5mm
Jaw Type	6061 Aluminum Machinable Jaw Set	6061 Aluminum Machinable Jaw Set	6061 Aluminum Machinable Jaw Set
Jaw Width	75mm	125.7mm	125.7mm
Clamping Force	13.5 kN @ 60 Nm	20.0 kN @ 75 Nm	20.0 kN @ 75 Nm
Max Torque	60 Nm	75 Nm	75 Nm

### **Steel Jaws**

Otoci outro			
Part Number	DV75150X-J3	DV56-J3	DV510-J3
	SV/75150X	5"AXIS	5th AXIS tropy 510 tropy 540 tropy 5
Size	75mm x 150mm x 64.1mm	125.7mm x 152.4mm x 89mm	125.7mm x 258.3mm x 88.5mm
Jaw Type	1018 Steel Machinable Jaw Set	1018 Steel Machinable Jaw Set	1018 Steel Machinable Jaw Set
Jaw Width	75mm	125.7mm	125.7mm
Clamping Force	13.5 kN @ 60 Nm	20.0 kN @ 75 Nm	20.0 kN @ 75 Nm
Max Torque	60 Nm	75 Nm	75 Nm

### DV75150X-J1

**Master Hard Jaws** 



DV75150X-J2

**Aluminum Jaws** 

Size: 75mm x 150mm x 56.1mm Jaw Set Material:

Hardened Steel 3 Piece Master Jaw Set

with Serrated / 45° Dovetail

Jaw Width: 75mm

Clamping Force: 13.5 kN @ 60

Nm

Max Torque: 60 Nm

**Forward Clamping Range:** 

0 - 37.02mm

Reverse Clamping Range: 17.23 -

55.02mm

Double station vise with serrated and dovetail master jaws. Perfect for making parts that are less than 55mm x 75mm.

\*Cannot be used in single station configuration\*

**Size:** 75mm x 150mm x 56.1mm

**Jaw Set Material:** 

6061 Aluminum Machinable Jaw

Set

Jaw Width: 75mm

Clamping Force: 13.5 kN @ 60

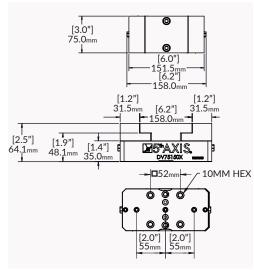
 $\mathsf{Nm}$ 

Max Torque: 60 Nm

Double station vise with 6061 aluminum machinable jaws. Perfect for secondary operation work.

\*Cannot be used in single station configuration\*

# [3.0"] 75.0mm [6.0"] 55.0mm [6.0"] 151.5mm M8 X 1.25 FITS PS16F 56.1mm 53.6mm [2.1"] 55.0mm 10mm HEX



### DV75150X-J3

### Steel Jaws



Size: 75mm x 150mm x 56.1mm Jaw Set Material:

1018 Steel Machinable Jaw Set

Jaw Width: 75mm

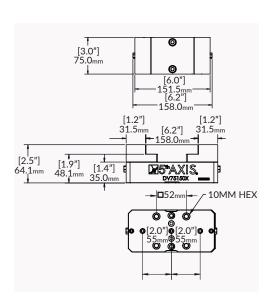
Clamping Force: 13.5 kN @ 60

Nm

Max Torque: 60 Nm

Double station vise with 1018 steel machinable jaws. Perfect for secondary operation work.

\*Cannot be used in single station configuration\*



## DV56-J1

### **Master Hard Jaws**



Size: 125.7mm x 152.4mm x 72.9mm Jaw Set Material:

Hardened Steel 3 Piece Master Jaw Set

with Serrated / 45° Dovetail

Jaw Width: 75mm Max Torque: 75 Nm

Forward Clamping Range: 0 - 28.5mm

**Reverse Clamping Range:** 

31mm - 64.2mm

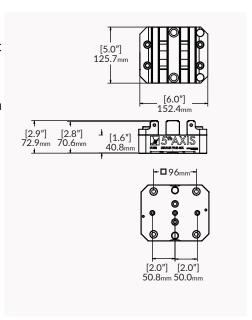
**Fixed Jaw Forward Clamping Range:** 

0 - 75.9mm

**Fixed Jaw Reverse Clamping Range:** 

56.8 - 147.3mm

Quickly convert the DV56-J1 from a double station to a fixed single jaw vise. Perfect for parts smaller than 64.2mm x 125.7mm.



# **DV56-J2**Aluminum Jaws



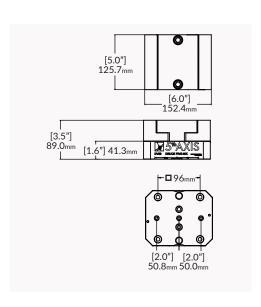
**Size:** 125.7mm x 152.4mm x 89mm

Jaw Set Material:

6061 Aluminum Machinable Jaw Set

Jaw Width: 75mm Max Torque: 75 Nm

Double station vise with 6061 aluminum machinable jaws. Perfect for secondary operation work.



# **DV56-J3**Steel Jaws



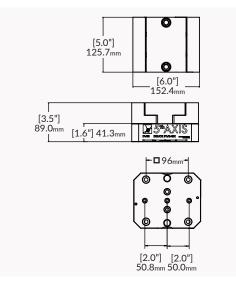
Size: 125.7mm x 152.4mm x 89mm

**Jaw Set Material:** 

1018 Steel Machinable Jaw Set

Jaw Width: 75mm Max Torque: 75 Nm

Double station vise with 1018 steel machinable jaws. Perfect for secondary operation work.



### **Double Station Vises**

# **DV510-J1**Master Hard Jaws



**Size:** 125.7mm x 258.3mm x

73.4mm

### **Jaw Set Material:**

Hardened Steel 3 Piece Master Jaw Set with 50.8 mm Center and Serrated / 45° Dovetail Jaws

Jaw Width: 125.7mm Max Torque: 75 Nm

Forward Clamping Range:

0 - 66.7mm

### **Reverse Clamping Range:**

30.9mm - 102.3mm

Fixed Jaw Forward Clamping Range:

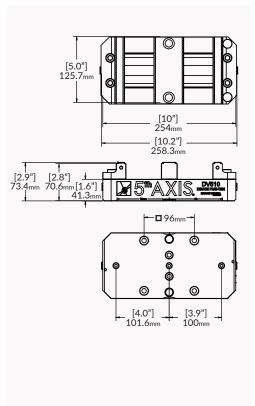
0 - 177.5mm

Fixed Jaw Reverse Clamping

Range:

56.8mm - 248.7mm

Double station vise that converts to a fixed jaw vise. 3 piece hard jaw set with a 50.8 mm center, serrations, and 45° dovetail master jaw.



# **DV510-J4**Master Hard Jaws



Size: 125.7mm x 258.3mm x

73.4mm

### **Jaw Set Material:**

Hardened Steel 3 Piece Master Jaw Set with 25.4 mm Center and Serrated / 45° Dovetail Jaws

Jaw Width: 125.7mm Max Torque: 75 Nm

Forward Clamping Range:

0 - 79.4mm

### **Reverse Clamping Range:**

30.9mm - 115mm

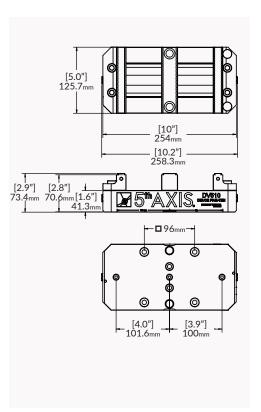
Fixed Jaw Forward Clamping Range:

0 - 177.5mm

### Fixed Jaw Reverse Clamping Range:

56.8mm - 248.7mm

Double station vise that converts to a fixed jaw vise. 3 piece hard jaw set with a 25.4 mm center, serrations, and 45° dovetail master jaw.



### **Double Station Vises**

### **DV510-J2**

**Aluminum Jaws** 

**Size:** 125.7mm x 258.3mm x

88.5mm

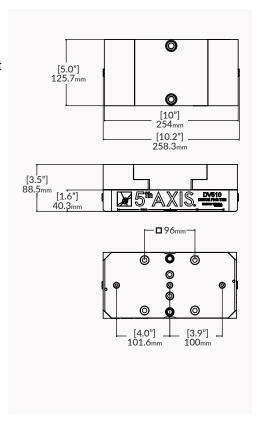
**Jaw Set Material:** 

6061 Aluminum Machinable Jaw Set

Jaw Width: 125.7mm Max Torque: 75 Nm

5<sup>th</sup>AXIS OURSE IN SECURITION OF THE PROPERTY OF THE PROPERTY

Double station vise with 6061 aluminum machinable jaws. Perfect for secondary operation work



### **DV510-J3**

**Steel Jaws** 



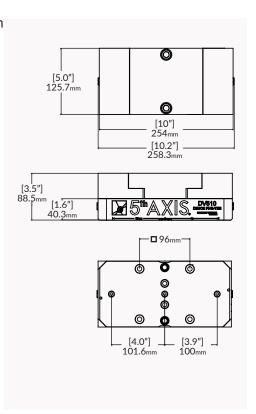
Size: 125.7mm x 258.3mm x 88.5mm

**Jaw Set Material:** 

1018 Steel Machinable Jaw Set

Jaw Width: 125.7mm Max Torque: 75 Nm

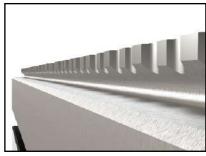
Double station vise with 1018 steel machinable jaws. Perfect for secondary operation work



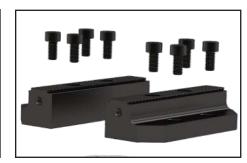
### **Self-Centering Vises**



Built in 45° dovetail can be utilized for increased clamping force



Serrated gripper teeth for superior bite into soft material



Quick change jaws without disassembling vise

### 30% more clamping force

with new X-series vises



Pre-drilled for pull studs

+/- 0.0127mm on center

Jaws are easy to remove

Hardened steel

Large leadscrew

Easy mounting to machine

# **Self-Centering Vises**

Part Number	V75100X	V75150X
	5"AXIS. V75100X	5'AXIS V73 ISOX
Size	75mm x 100mm x 56mm	75mm x 150mm x 56mm
Jaw Width	75mm	75mm
Clamping Force	13.5 kN @ 60 Nm	13.5 kN @ 60 Nm
Max Torque	60 Nm	60 Nm
Forward Clamping Range	0 - 43.6mm	0 - 94.1mm
Reverse Clamping Range	38.5mm - 76.3mm	38.5mm - 128.8mm

Part Number	V562X	V510X
	5"AXIS	5th AXIS VS10X
Size	125.7mm x 152.4mm x 73.6mm	125.7mm x 254mm x 73.6mm
Jaw Width	125.7mm	126mm
Clamping Force	25 kN @ 75 Nm	25 kN @ 75 Nm
Max Torque	75 Nm	75 Nm
Forward Clamping Range	0 - 78.0mm	0 - 184.7mm
Reverse Clamping Range	60.3mm - 128.0mm	60.3mm - 234.7mm

### V75100X

### Metric



### V75150X

### Metric



### V562X

### Metric



### V510X Metric



Size: 75mm x 100mm x 56mm

Jaw Width: 75mm

**Forward Jaws Clamping Range:** 

0 - 43.6mm

Reverse Jaws Clamping Range: 38.5mm -

Clamping Force: 13.5 kN @ 60 Nm

Weight: 1.8 Kgs

The V75100X is the most recent revision of our V75100 vise. Now equipped with 4 bolt jaw mounting

to reduce jaw lift providing robust clamping and sharper teeth for a

better bite.

Size: 75mm x 150mm x 56mm Jaw Width: 75mm

Forward Jaws Clamping Range:

0 - 92.8mm

Reverse Jaws Clamping Range: 38.5mm -128.8mm

Clamping Force: 13.5 kN @ 60 Nm Weight: 3.2 Kgs

The V75150X was created out of customer

demand for a small

self-centering vise with an increased clamping range over the popular V75100X vise. The base is 50mm longer than the standard V75100X, allowing the max workpiece size to increase from 76mm to 128mm. The new 4 bolt jaw mounting design reduces jaw lift and the sharper teeth provide a superior bite in raw material.

**Size:** 125.7mm x 152.4mm x 73.6mm **Jaw Width:** 125.7mm

**Forward Jaws Clamping Range:** 0 - 78.0mm

Reverse Jaws Clamping Range: 60.3mm -

128.0m

Clamping Force: 25 kN @ 75 Nm Torque Weight: 7.25 Kgs

The V562X is the updated version of the best selling self-centering vise in the product line (V562M). The new model features 30% more clamping force due to the updated 4 jaw mounted bolts keyed jaw and truck.

The V562X is built from heat treated 4100 series steel and is precision ground and hard milled to ensure accuracy and repeatability.

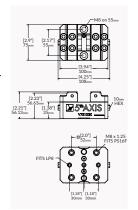
Size: 125.7mm x 254mm x 73.6mm Jaw Width: 125.7mm

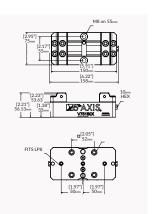
Forward Jaws Clamping Range: 0 -184.7mm

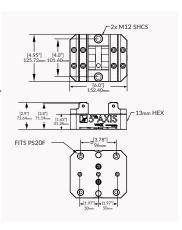
Reverse Jaws Clamping Range: 60.3mm

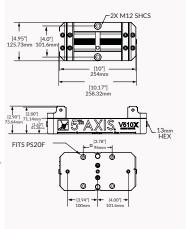
- 234.7mm Clamping Force: 25.1 kN @ 75 Nm Torque Weight: 8.2 Kgs

The V510X has all of the robust features of the V562X including the added clamping range. The V510X is a perfect fit for shops looking for a small footprint vise with a larger clamping range. The V510X is built from hardened and ground 4100 series steel to ensure accuracy and repeatability.







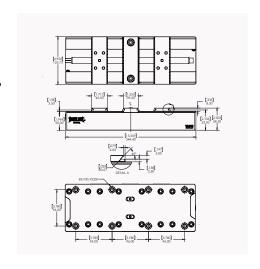


### LITEVISE VA513

### **Metric**



Size: 344mm x 125mm x 50mm Jaw Width: 125mm Clamping Force: 22.2 kn @ 61 Nm Max Torque: 61 Nm Clamping Range - Lower Gripper Jaws: 9.5 - 245 mm (Self-Centering), 5 - 100 mm (Double Station) Clamping Range - Master Tall Gripper Jaws: 9.5 - 305 mm (Self-Centering), 9.5 - 127 mm (Double Station) Weight: 9 Kgs



### LITEVISE VA518

### **Metric**



### **VA513-GJ-A**

# **Master Gripper Jaws Set**



**Size:** 457mm x 125mm x 50mm

Jaw Width: 125mm

Clamping Force: 22.2 kn @ 61 Nm

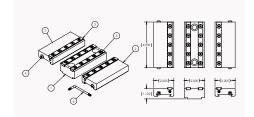
Max Torque: 61 Nm

Clamping Range - Lower Gripper Jaws: 9.5 - 358 mm (Self-centering), 5 - 157 mm (Double Station) Clamping Range: Master Tall Gripper Jaws: 9.5 - 417 mm (Self-centering), 9.5 - 183 mm (Double Station)

Weight: 11 Kgs

Are you ready to elevate your CNC machining operations with unparalleled precision and efficiency? Meet LiteVise, the game-changing lightweight vise designed to optimize your workflow and deliver exceptional results.and deliver exceptional results.

Crafted from billet aluminum, these machinable jaws are built to withstand the rigors of daily use in a variety of industrial and manufacturing environments. Their robust construction ensures a long lifespan, providing you with reliable performance and reduced maintenance costs over time. The gripper strips are built from hardened steel and TiN coated for longevity.

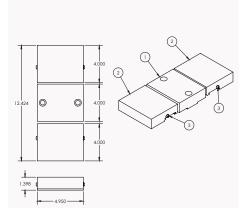


### **VA513-MJ-A**

# **Aluminum Soft Jaws Set**



Crafted from billet aluminum, these machinable jaws are built to withstand the rigors of daily use in a variety of industrial and manufacturing environments. Their robust construction ensures a long lifespan, providing you with reliable performance and reduced maintenance costs over time. The gripper strips are built from hardened steel and TiN coated for longevity.



### **LITEVISE VA56**

### Metric



Size: 152mm x 125mm x 50mm Jaw Width: 125mm

Clamping Force: 22.2 kN @ 61 Nm

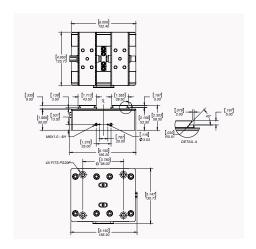
Max Torque: 61 Nm

Clamping Range - Lower Gripper Jaws: 9.5 mm - 76 mm

Clamping Range - Master Tall

Gripper Jaws: 6.5 -133 mm Weight .10 lbs

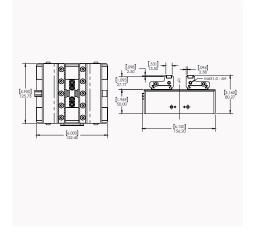
Are you ready to elevate your CNC machining operations with unparalleled precision and efficiency? Meet LiteVise, the gamechanging lightweight automation vise designed to optimize your workflow and deliver exceptional results.



### VGA-VA5 **Aluminum Master Gripper Jaw Set**



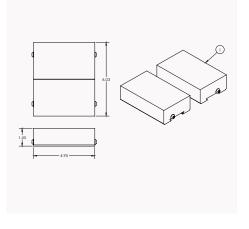
Crafted from billet aluminum, these machinable jaws are built to withstand the rigors of daily use in a variety of industrial and manufacturing environments. Their robust construction ensures a long lifespan, providing you with reliable performance and reduced maintenance costs over time. The gripper strips are built from hardened steel and TiN coated for longevity.



### VGJ-VA5 **Aluminum Soft Jaw** Set



Crafted from billet aluminum, these machinable jaws are built to withstand the rigors of daily use in a variety of industrial and manufacturing environments. Their robust construction ensures a long lifespan, providing you with reliable performance and reduced maintenance costs over time.







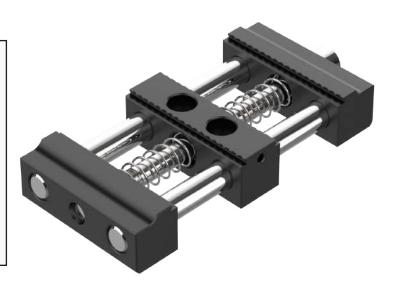


Compact Design

High-precision, quality vises in a skeleton design that makes them lighter, more compact, and cost-effective.

Ideal for high volume part production, Pin Vises have a small footprint, allowing more parts on a table for higher productivity. Pin Vises are also lightweight for automated applications where weight is a consideration.

Pin Vise tombstones, pyramids, and plates are configured with 96mm RockLock quick-change systems.









High volume applications

Available in 4" & 6" models

Clamping range: 6.35 - 63.5 mm

Hardened steel

Extreme low-profile design

Serrated gripper teeth and integrated 45° dovetail

### **Double Station Pin Vises**

Part Number	PV3X-4A	PV3X-4B
Size	75mm x 111.6mm x 25mm 75mm x 111.6mm x 25mm	
Jaw Width	75mm	75mm
Clamping Range	19.05mm - 38.10 mm	6.35mm - 25.40mm

Part Number	PV3X-6A	PV3X-6B
Size	75mm x 161.6mm x 25mm	75mm x 161.6mm x 25mm
Jaw Width	75mm 75mm	
	150: 44.45mm - 63.50mm	150: 31.75mm - 50.80mm
Clamping Ranges Based on Bolt Size*	130: 31.75mm - 50.80mm	130: 19.05mm - 38.10mm
	100: 19.05mm - 38.10mm	100: 6.35mm - 25.40mm

<sup>\*</sup>PVX3-6A & PVX3-6B pin vises come with three different bolt lengths to provide different clamping range options.

### **PV3X-4**



The PV3X-4 is a 4" pin vise that offers a low-cost, low profile solution ideal for 3 axis, horizontal, and lights out manufacturing.

### **PV3X-6**



The PV3X-6A & 6B are 6" pin vises that come with three sets of bolts with different lengths to provide three clamping range options.

### PMV3XS



The PMV3X is a 1018 steel machinable jaw version of the PV3X-6 pin vises.

### **Dovetail Fixtures**



### **Dovetail Fixtures**

Part Number	DM12	DM25	DM50
	DM 12 war a new hay	DM25 MADE IN THE USA	UM50 Market Processing to the Control of the Contro
Size	21mm x 32mm x 19mm	37mm x 41mm x 27mm	50mm x 50mm x 38mm
Stock Size	12mm - 25mm	25mm - 75mm	50mm and Above
Dovetail Depth	2.54mm	2.54mm	5.08mm

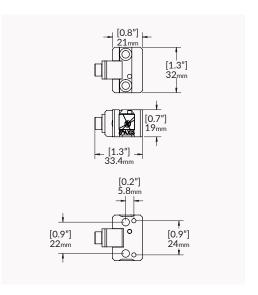
### **DM12 Metric**



**Size:** 21mm x 32mm x 19mm Material: 4100 Series Steel Stock Size: 12mm - 25mm

**Dovetail Depth Required: 2.54mm** 

The DM12 is the smallest dovetail fixture in the 5th Axis workholding line. The DM12 features a wedge style clamp for superior gripping force and a low profile design that optimizes tool clearance. This micro dovetail fixture is the perfect choice for multi-axis work on smaller parts.



### **DM25** Metric



**Size:** 37mm x 41mm x 27mm Material: 4100 Series Steel Stock Size: 25mm - 75mm

**Dovetail Depth Required: 2.54mm** 

The DM25 is the most versatile dovetail fixture in the 5th Axis workholding line. It is a simple and robust dovetail fixture built for stock under 75mm. The DM25 features a robust clamp for superior gripping force and a low profile design that optimizes tool clearance. This dovetail fixture is the perfect choice for multi-axis work on small to medium sized parts.



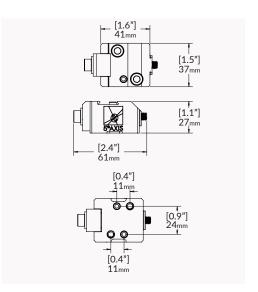


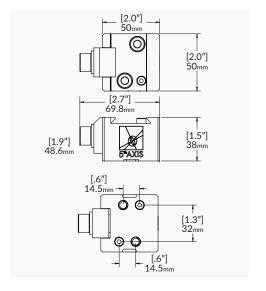
Size: 50mm x 50mm x 38mm Material: 4100 Series Steel

Stock Size: 50mm+

**Dovetail Depth Required:** 5.08mm

The DM50 is a simple and robust dovetail fixture built for stock 50mm and above. It features a wedge style clamp for superior gripping force, and a low profile design that optimizes tool clearance.



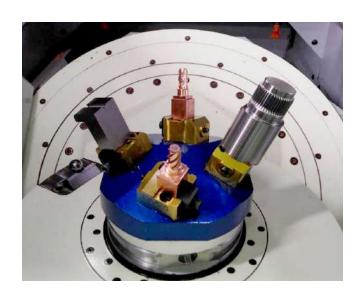




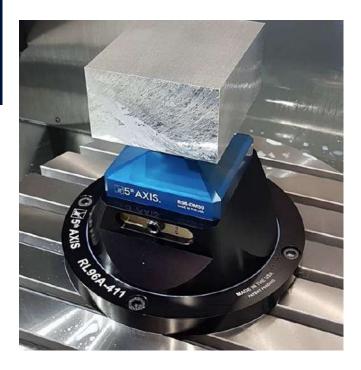




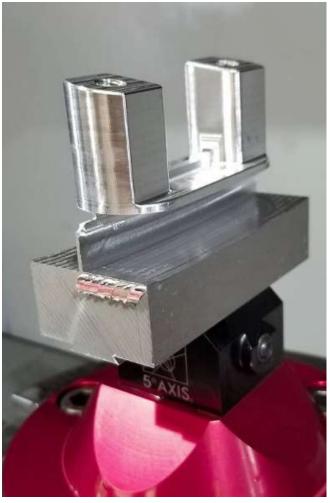




# **Dovetail Fixtures Examples**











Real workholding applications provided by customers

### R52-P12DM12

### **Metric**

Spacing: 125.73mm x 125.73mm x 133.5mm Material Construction: 6061 Aluminum

Built for our 52mm RockLock Quick Change System, the R52-P12DM12 provides maximum amount of flexibility. This 4-sided pyramid utilizes twelve DM12 dovetail fixtures for stock under 25mm. The orientation of the fixtures on the pyramid ensures optimal tool clearance for multiple parts. Machine up to 12 parts on this compact unit. The modular design allows for fixtures to be added or removed depending on the length of the workpiece.

### R96-P12DM12



### Metric

Spacing: 125.73mm x 125.73mm x 133.5mm Material Construction: 6061 Aluminum

Built for our 96mm RockLock Quick Change System, the R96-P12DM12 provides maximum amount of flexibility. This 4 sided pyramid utilizes twelve DM12 dovetail fixtures for stock under 25mm. The orientation of the fixtures on the pyramid ensures optimal tool clearance for multiple parts. Machine up to 12 parts on this compact unit. The modular design allows for fixtures to be added or removed depending on the length of the workpiece.

### R52-P4DM25



**Spacing:** Ø152.4mm x 64.9mm

Material Construction: 6061 Aluminum



This compact pyramid utilizes 4 DM25 dovetail fixtures. The small foot print ensures no space is wasted allowing simultaneous machining of four parts. Run more parts per cycle and minimize pallet and tool changes. This versatile fixture can be mounted on trunnions, pallets, and machine tables using our 52mm RockLock Quick Change System.

### R96-P4DM25

### **Metric**

**Spacing:** Ø152.4mm x 64.9mm

**Material Construction:** 6061 Aluminum

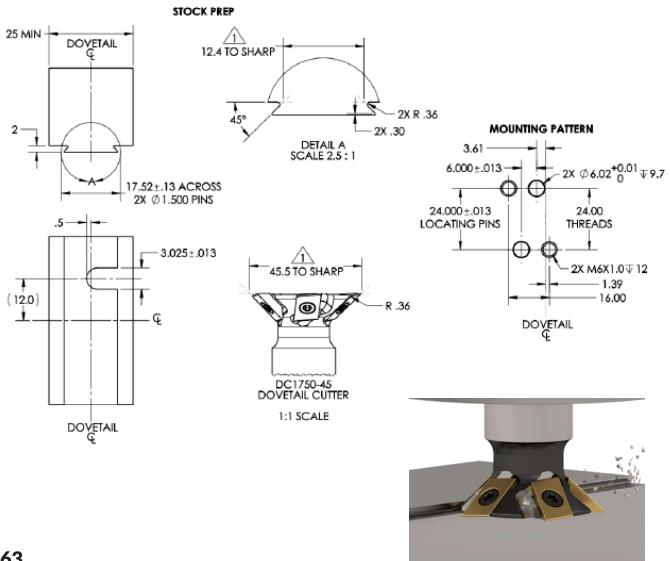


This compact pyramid utilizes 4 DM25 dovetail fixtures. The small foot print ensures no space is wasted allowing simultaneous machining of four parts. Run more parts per cycle and minimize pallet and tool changes. This versatile fixture can be mounted on trunnions, pallets, and machine tables using our 96mm RockLock Quick Change System.

### **Dovetail Fixtures**



### Sample Dovetail Stock Prep (DM25)



### **CERX-40 & CERX-32**



The CERX-40 and CERX-32 are quick and efficient fixtures for holding round stock. The collets utilizes your existing set of standard ER40 and ER32 collets allowing you to clamp different diameters of stock. The bodies are manufactured from hardened alloy steel to exacting standards.

Part Number	R52-CERX-40	R96-CERX-40
		OXXIS
Size	75mm X 75mm x 68mm	126mm x 126mm x 81mm
Mounting	Includes PS16F	Includes PS20F
Stock Size	ER40 Collet	ER40 Collet

Part Number	R52-CERX-32	R96-CERX-32
		-5A/6 ====
Size	75mm X 75mm x 68mm	126mm x 126mm x 81mm
Mounting	Includes PS16F	Includes PS20F
Stock Size	ER32 Collet	ER32 Collet



### **Dovetail Cutters**

### DC1750-I

45° Indexable Dovetail Cutter, 1" shank All of our fixtures feature 45° dovetail.

### DC1750-M

45° Indexable Dovetail Cutter, 25mm shank All of our fixtures feature 45° dovetail.

### DC1750-B

Inserts for Dovetail Cutter
Compatible with all 5th Axis dovetail cutters.



### **Thumb Screws**

### **Replacement Thumbscrews:**

TS10 - Used on V75100X, V75150X, DV75150X

TS13 - Used on DV56, DV510, V552M, V562M, and V510M

TS17 - Used on V6105M

Thumb screws are included with every vise. Fits standard 3/8" drives.



### **Threaded Locating Pins**

### **Replacement Locating Pins:**

LP6 - 6mm OD

LP8 - 8mm OD

**LP10** - 10mm OD

Locating pins are included with every vise.

CAD models available for download at 5thaxis.com/downloads

<sup>\*</sup>Inserts sold separately.



# Machinable 6061 Aluminum Jaws

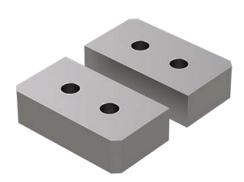
### **METRIC**

**VAJ75X** - 75mm x 45mm x 25mm (Compatible with V75100 / V75100X)

**VAJ52X** - 125.73 mm x 62.23 mm x 34.29 mm (Compatible with V562X / V510X)

**VAJ52M** - 125mm x 50mm x 34mm (Compatible with V552M / V562M / V510M)

**VAJ610M** - 151mm x 78mm x 47mm (Compatible with V6105M)



### **Machinable 1018 Steel Jaws**

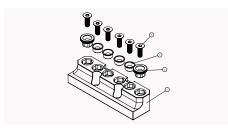
### **METRIC**

**VSJ75X** - 75mm x 45mm x 25mm (Compatible with V75100 / V75100X)

**VSJ52M** - 125mm x 50mm x 34mm (Compatible with V552M / V562M / V510M)

**VSJ610M** - 151mm x 78mm x 47mm (Compatible with V6105M)





### V562X-5RG

Round Stock Gripper Jaw (For V562X & V510X)

5" wide, X-Series compatible hard jaws to support round raw stock. The jaws utilize hardened steel inserts that can be strategically spaced along the jaw to support materials ranging from 38 – 203 mm diameter on the V510X Vise, and 38 – 139 mm in diameter on the V562X. Jaws Sold Individually.



### **Anti-Lift Jaws**

**AL75A** - Anti-Lift Aluminum Machinable Jaws, Starter Set. Includes steel cleats, aluminum machinable jaws, and brackets. (Compatible with V75100, V75100X, V75150X)

**AL75-2A -** Set of 2, Replacement Anti-Lift Machinable Aluminum Jaws. (Compatible with V75100, V75100X, V75150X)

**AL75S -** Anti-Lift Steel Machinable Jaws, Starter Set. Includes steel cleats, steel machinable jaws, and brackets. (Compatible with V75100, V75100X, V75150X)

**AL75-2S** - Set of 2, Replacement Anti-Lift Machinable Jaws, Steel. (Compatible with V75100, V75100X, V75150X)

**AL52A** - Anti-Lift Aluminum Machinable Jaws, Starter Set. Includes steel cleats, aluminum machinable jaws, and brackets. (Compatible with V552 / V562 / V552M / V562M / V510M)



**AL52-2S** - Set of 2, Replacement Anti-Lift Machinable Jaws, Steel. (Compatible with V552 / V562 / V552M / V562M / V510M)

Our Anti-Lift Jaws use a cleat and angled soft jaw to pull the jaw in and down when torque is applied to the lead screw. This design decreases jaw lift and jaw deflection commonly seen in self-centering vises.





### **RockLock Examples**



### **400mm Tombstone configuration**

### Part number shown: RL96S -67M

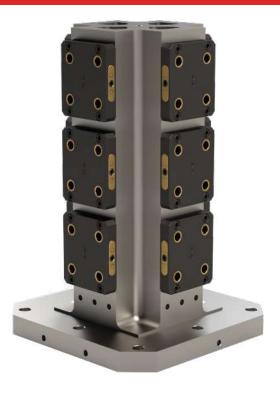
Built for standard tombstone and grid plates. Bolt spacing at 100mm.



### **R96-V75XT4 Tombstone configuration**

### Part number shown: R96-V75XT4 with 4X DV75150X

200mm tall mini tombstone designed to work with smaller 4 and 5 Axis machines.



### **500mm Tombstone configuration**

### Part number shown: RL96S -67M

Built for standard tombstone and grid plates. Bolt spacing at 100mm.



### **R96-V75100T4 Tombstone configuration**

### Part number shown: R96-V75100T4 with 8X V75100X

266mm tall mini tombstone designed to work with smaller 4 and 5 Axis machines.

### **RockLock Examples**



### 4th Axis tombstone config-

Part number shown: R96-V75XT4 with 4x DV75150X + RL96A-56 adapter

Turn your vertical with a rotary into a mini horizontal. Produce 8 times more parts on your rotary table.



### Haas TRT160 con iguration

Part number shown: RL96A-60100

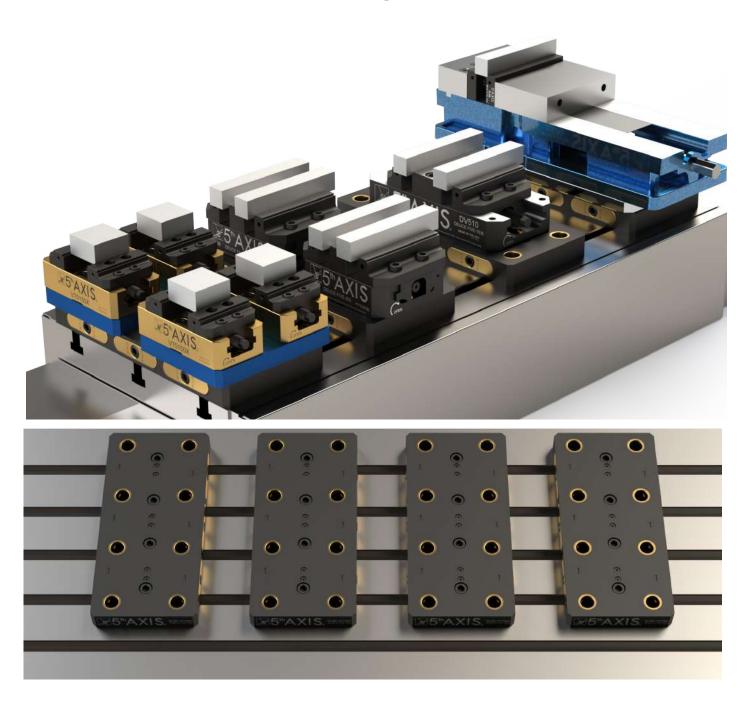
New 4 bolt 96mm RockLock adapter. Designed for the new style Haas TRT160 rotary.



# **BUILT FOR 3 AXIS**

### **Simplify Programming**

**Reduce Changeover Time** 





# NEW 3D COMPATABILITY TOOL

# See 3D Model Options For Your Machine.



Scan the QR code to access the 3D compatibility tool. From there, you can preview and download 5th Axis products for your machine.

- 1. Choose a manufacturer and table
- 2. Choose a RockLock™ base
- 3. Preview and download any compatible model

