

Robotic Gripper and Automation-Ready Workholding



Automation

Kurt RV36 Gripper

The new Kurt RV36 Robotic Arm Gripper saves space and money and improves efficiency with quick-change, customizable jaws and custom accessories.

- Automated finger changes in seconds with patent-pending pull stud design
- Integrated electronic sensors ensure finger position and readiness
- Light weight design: high-strength aluminum alloy
- Maximum clamping and unclamping force from double-acting oval piston
- Self-centering wedge-type design for high force transmission and centric gripping
- Small gripper size saves space in robotic cells
- See pages 4-5 for complete details

Precision Force (PF) Vises

- High clamp force
- Jaw design minimizes jaw lift
- Easy centerline adjustment
- Quick lash adjustment
- Hex on both ends of screw, can be adjusted from either side
- 52mm pattern spacings for mounting to industry standard zero-point systems
- End effector ready for automation integration

See pages 6-9 for complete details

Air Vise - Air Powered Vise for Automation

- Air powered motorized clamping provides consistent preset force and can be set to stop precisely on location
- Works great in automated systems and with Robotic workpiece handling
- Helps provide consistent clamping in unattended CNC operation
- Can be equipped with most Kurt vise models
- Air motor can be positioned under or on the side of the vise
- Operates on 20-100 PSI and requires air/oil mist
- Movable jaw can move through the entire stroke of the vise
- Air motor advantages include clean and easy pneumatic circuit hookup

Servo Vise - For Automation

- Variable speed servo and position programable
- Servo powered vise with Allen Bradley 570 watt Servo Motor
- Capable of handling loads up to 80 ft-lbs torque (Max torque with most Kurt 6 inch vises)
- Encoder
- Gear Drive and Gear Box Assembly Included
- Ethernet Cable (8 Conductors) Included
- Optional Ethernet/IP Servo Drive and cable sold separately

Specialty Vises & Custom Engineered Workholding

Your ideas aren't off-the-shelf. Why should your workholding be? When you want the best workholding solutions for your specific needs, let Kurt custom-build them for you. Then, get ready to experience increased throughput and lower costs.

See full catalog for complete details for Specialty Vises and Custom Engineered Vises











Automation

Pyramid 45° mounting platform

- 45-degree Pyramid design provides maximum access to all machined surfaces and allows for enhanced spindle and cutting tool clearance.
- Pyramid platform configuration accommodates 11 different Kurt vises including these models: HP series, PF series, SCMX series, and DT series vises. Jaw options available from Carvable, Dovetail and Serrated.
- Pyramid platform is constructed of 7075 anodized aluminum and has a 12" diameter base.
- Fits a wide variety of 5 axis CNC machines with predrilled holes for easy mounting to most machine tables, pallets or wide variety of sub plates.

See page 8 for complete details



KURT workholding



Pyramid 45° mounting platform with zero-point dock system

 45-degree Pyramid design interfaces easily with DockLock mounting system for quick, high precision changovers.

Hydraulic Pump Components for Automation

The Kurt automation pump system is custom configurable to match customer applications. It features fully integrated design for plug & play operation. Just add the appropriate connectors that fit your specific CNC controller or other I/O device.

See full catalog for complete details



Automation Inspection Gaging Systems

From automotive manufacturers to tier-one subcontractors who manufacture components and assemblies, Kurt clients span most areas of precision manufacturing. Kurt Gaging also provides SPC software/ hardware solutions and probes to OEM gaging/fixture makers and robotic system integrators.

See full catalog for complete details









Kurt RV36 Gripper

The new Kurt RV36 Robotic Arm Gripper saves space and money and improves efficiency with quick-change, customizable jaws and custom accessories.

The new RV36 Robotic Gripper is a two-finger parallel gripper featuring a revolutionary patent-pending design that allows automated finger/end-effector changes without changing the gripper body. Quick-change fingers are secured with pull studs and allow customers to save on gripper-body expenses and create greater part-holding flexibility by using multiple finger configurations with a single gripper body.

Loaded with features, the compact Kurt RV36 Gripper comes standard with integrated electronics featuring sensors that ensure fingers are in place and optional sensors to insure parts are in place and ready for production. High-strength aluminum alloy keeps gripper weight to a minimum while a hard-coat finish reduces wear and increases life in the field. Double-acting piston design gives the RV 36 Gripper maximum clamping and un-clamping force and carvable aluminum- or steel-finger options can be machined to work in a variety of applications. Additional finger sets are also sold separately.

Kurt RV 36 Grippers offer additional space- and moneysaving features. The smaller gripper size allows easier storage where space is a premium and pull-stud automation saves money for customers with a quick-change finger system allowing multiple finger options for a single gripper body. The RV36 is the first robot gripper with the ability to automatically change gripper fingers and the ability to accommodate an endless variety of end-effector options.

Gripper Features

- Automated finger changes in seconds with patent-pending pull stud design
- Integrated electronic sensors ensure finger position and readiness
- · Light weight design: high-strength aluminum alloy
- Hard-coat finish
- Maximum clamping and unclamping force from doubleacting oval piston
- Self-centering wedge-type design for high force transmission and centric gripping
- Small gripper size saves space in robotic cells
- Optional aluminum or steel finger configurations

RV36 Gripper without Fingers

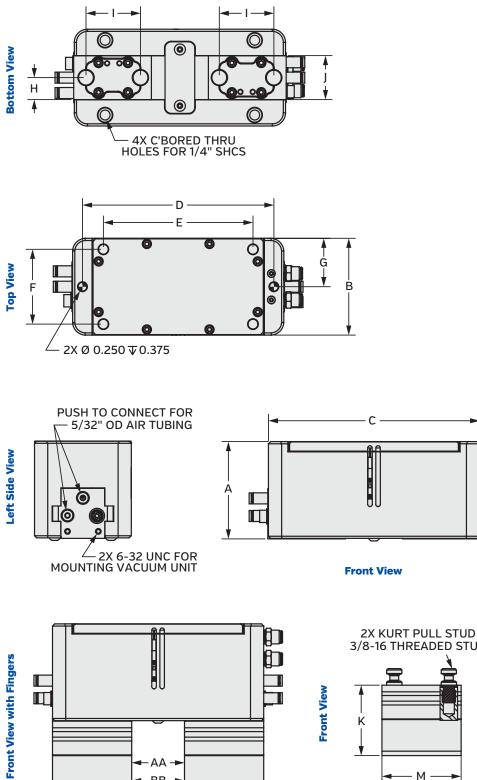
RV36A Gripper with Aluminum Fingers

RV36S Gripper with Steel Fingers

RV36-388A-SA Aluminum Gripper Finger Assembly Complete with Pull Studs and Magnet Installed (single)

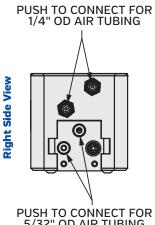
RV36-388S-SA Steel Gripper Finger Assembly Complete with Pull Studs and Magnet Installed (single)

Kurt RV36 Gripper



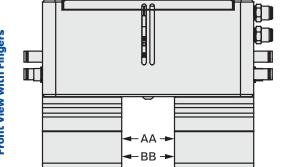
Dimensional Data			
А	2.765		
В	2.750		
С	6.000		
D	5.438		
E	4.250		
F	2.125		
G	1.375		
Н	0.625		
I	1.550		
J	1.250		
К	2.000		
L	1.250		
М	2.250		
Ν	0.350		
0	0.625		
MAX OPEN AA	1.50		
MIN OPEN BB	0.90		

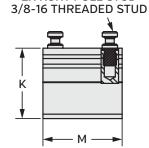
Gripper weight: 5.6 Lbs. Aluminum Finger weight: 0.55 Lbs. Steel Finger weight: 1.3 Lbs.

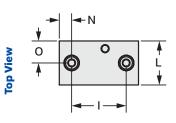


81 B

PUSH TO CONNECT FOR 5/32" OD AIR TUBING











Serrated Mode carvable Mode Dovetail Mode

Precision Force (PF) Vises

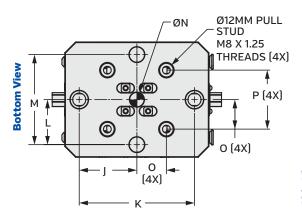
- · High clamp force
- · Jaw design minimizes jaw lift
- · Easy centerline adjustment
- · Quick lash adjustment
- Hex on both ends of screw, can be adjusted from either side
- 52mm pattern spacings for mounting to industry standard zero-point systems
- End effector ready for automation integration
- · Movable jaw options: Carvable, Dovetail and Serrated
- · Jaws and nuts can be reversed for ID clamping
- · Jaws are gibbed to help with squareness

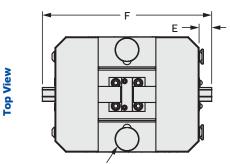
Clamp Force (lbs)

600

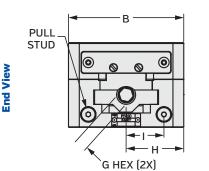
• Max torque 45 foot pounds.

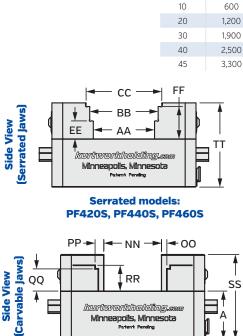
Torque (ft-lbs)





C'BORE FOR 1/2 SHCS (2X)







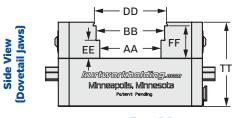
PF420

PF440

PF460

С **Carvable models: PF420C, PF440C, PF460C**

D



Dovetail models: PF420D, PF440D, PF460D

Precision Force Optional Riser Blocks

Designed for use with PF-Series Vises, each vise riser kit includes a base and all the accessories needed for installation.



HP420-RISERKIT



HP440-RISERKIT



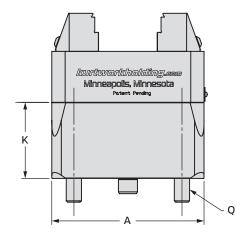
HP460-RISERKIT

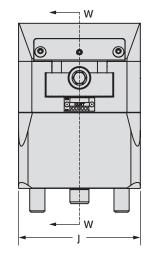
Jaw Features

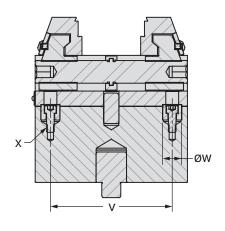
- Movable jaw options: Machinable, Dovetail and Serrated
- Jaws and nuts can be reversed for ID clamping
- Nuts are gibbed to help with squareness

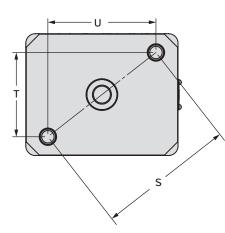
	HP420-RISERKIT	HP440-RISERKIT	HP460-RISERKIT
А	5.000	7.000	9.000
J	4.000	4.000	4.000
К	2.500	2.500	2.500
Р	1/2-13 SHCS	1/2-13 SHCS	1/2-13 SHCS
Q	1/2-13 SHCS	1/2-13 SHCS	1/2-13 SHCS
R	3.125	3.125	3.125
S	4.500	4.500	4.500
Т	2.767	2.767	2.767
U	3.549	3.549	3.549
V	4.000	4.000	4.000
W	Ø 0.625	Ø 0.625	Ø 0.625
Х	1/4-20 SHCS	1/4-20 SHCS	1/4-20 SHCS
Weight	6 lbs	8 lbs	11 lbs

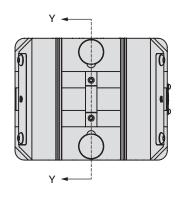
Replacement Jaws		
Part Number	Description	Weight
PF420-2S	Serrated Jaw	1.6 lbs
PF420-2C	Carvable Jaw	1.8 lbs
PF420-2D	Dovetail Jaw	1.6 lbs
Sold Individua	ally	

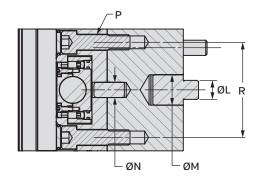










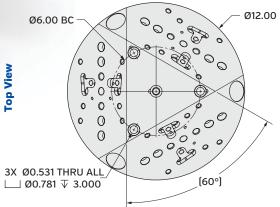




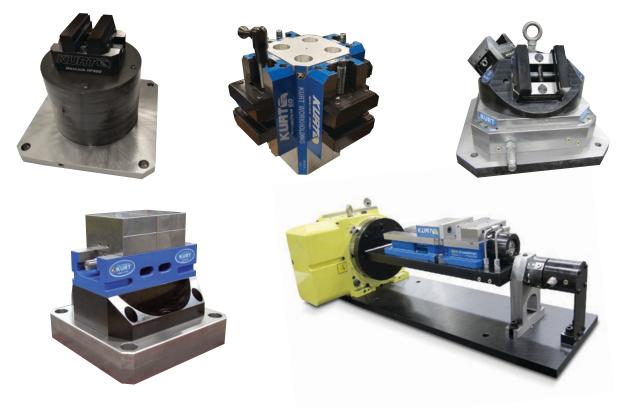
3X 45° 3X 0.50 3X 0.50

Pyramid 45° mounting platform

- 45-degree Pyramid design provides maximum access to all machined surfaces and allows for enhanced spindle and cutting tool clearance.
- Pyramid platform configuration accommodates 11 different Kurt vises including these models: HP series, PF series, SCMX series, and DT series vises. Jaw options available from Carvable, Dovetail and Serrated.
- Pyramid platform is constructed of 7075 anodized aluminum and has a 12" diameter base.
- Fits a wide variety of 5 axis CNC machines with predrilled holes for easy mounting to most machine tables, pallets or wide variety of sub plates.
- Weight: 35 lbs.



For all other 5-Axis and Custom Solutions see full catalog.





www.kurtworkholding.com

Other Kurt Divisions kurt.com kurthydraulics.com kurtdiecasting.com kurtmachining.com

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