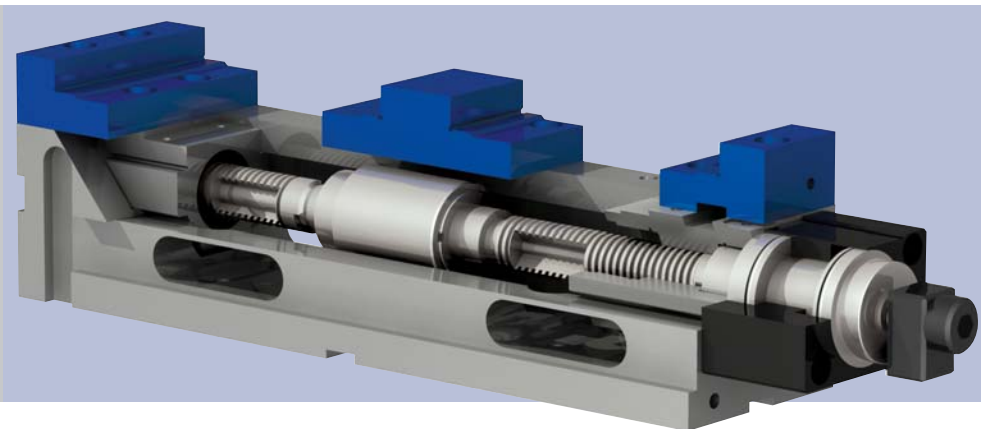


high pressure automatic vises

Arnold Twin Hydraulic

High pressure HYDRAULIC
Arnold Twin vises can clamp two workpieces at the same time automatically using a single acting hydraulic system.



- Main components in cast nodular peralite GGG70.
- All surfaces ground with a parallelism and perpendicularity of 0.02 mm (0.0008").
- Can be mounted on the base, sides or vertically on the end.
- Suitable for working in horizontal and vertical machining centers.
- 0.01 mm (0.0004") clamping repeatability.
- Single action with spring push-back.
- It has a forward and backward movement of 3mm (0.12").
- 2.5 / 4 tons (5,500 / 8,800 lbs) force with hydraulic action (see manual).
- Operation with 500 bar (7250 psi) hydraulic supply.
- High pressure spindle with rotary connection.

Side openings for easy chip evacuation.

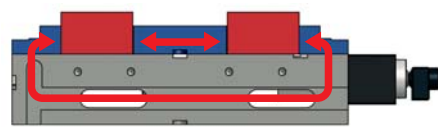


- Hard jaws can use a variety of Arnold jaws.



- Optional soft jaws can be machined to hold castings, forgings, extrusions and other irregular shaped parts.

- Clamping force is equal from both sides on the center jaw to eliminate center jaw deflection



- Ideal for automatic loading and unloading.

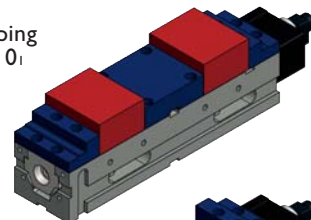
OPERATION

- Adjust jaws manually to a clearance of 3mm (0.15") to the parts.
- Place the parts between jaws and operate the hydraulic system; this will first make the jaws move and then apply high pressure.
- To unload release pressure and jaws will open.

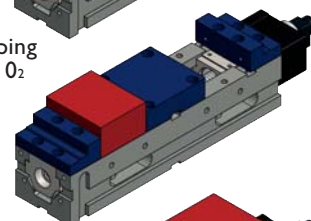
Clamping possibilities

- Two work-pieces can be clamped at the same time, with a variation in size of 3 mm (0.15"), or one single work-piece.
- The ARNOLD Twin vise permits six different clamping modes by interchanging the standard jaw position.
- This is achieved, either by rotating the side jaws and fitting the stepped jaw in the center, or by fitting the central jaw on the side closest to the handle.

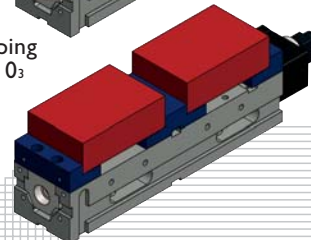
Clamping field 0₁



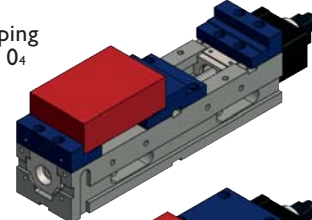
Clamping field 0₂



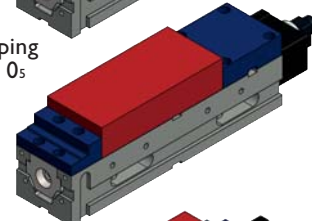
Clamping field 0₃



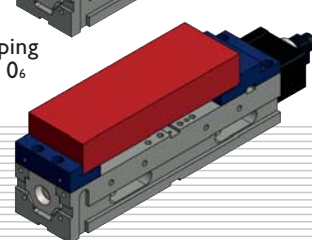
Clamping field 0₄



Clamping field 0₅



Clamping field 0₆



Size	090	125		
Hydraulic Arnold Twin	040 140 090	040 140 125		
A (mm / inches)	400 / 15.75	480 / 18.98		
B (mm / inches)	522 / 20.55	593 / 23.35		
C (mm / inches)	75 / 2.95	100 / 3.94		
D (mm / inches)	115 / 4.53	140 / 5.51		
E (mm / inches)	91 / 3.58	126 / 4.96		
K (mm / inches)	190 / 7.48	230 / 9.06		
M H7 (mm / inches)	20 / 0.79	20 / 0.79		
N (mm / inches)	40 / 1.57	40 / 1.57		
Clamping force (kg / lbs)	2500 / 5500 x 2	4000 / 8800 x 2		
Weight (kg / lbs)	25 / 55	45 / 99		
Position	horizontal	vertical	horizontal	vertical
Clamping field 0 ₁ (mm / inches)	0-80 / 0-3.15	0-68 / 0-2.68	0-99 / 0-3.90	0-87 / 0-3.43
Clamping field 0 ₂ (mm / inches)	0-92 / 0-3.62	0-80 / 0-3.15	0-114 / 0-4.49	0-102 / 0-4.02
Clamping field 0 ₃ (mm / inches)	66-145 / 2.60-5.71	66-133 / 2.60-5.24	83-181 / 3.27-7.13	83-169 / 3.27-6.65
Clamping field 0 ₄ (mm / inches)	66-157 / 2.60-6.18	66-133 / 2.60-5.24	83-196 / 3.27-7.72	83-184 / 3.27-7.24
Clamping field 0 ₅ (mm / inches)	140-221 / 5.51-8.70	140-209 / 5.51-8.23	180-286 / 7.09-11.26	180-274 / 7.09-10.79
Clamping field 0 ₆ (mm / inches)	198-286 / 7.80-11.26	198-274 / 7.80-10.79	262-368 / 10.31-14.49	262-356 / 10.31-14.49

Elements needed for the operation not supplied with the vise

- 500 bar (7,250 psi) hydraulic pressure supply.
- Connection hose.
- Pressure control switch
- Pressure gauge.
- Safety valve integrated into the unit
- ON – OFF switch.

Supplied with

- base body
- hydraulic spindle
- 1 set of plain jaws
 - 2 x side jaws
 - 1 central jaw i (staggered)
 - 1 central jaw ii (block)
- 1 handle
- 4 toe clamps
- instruction manual

