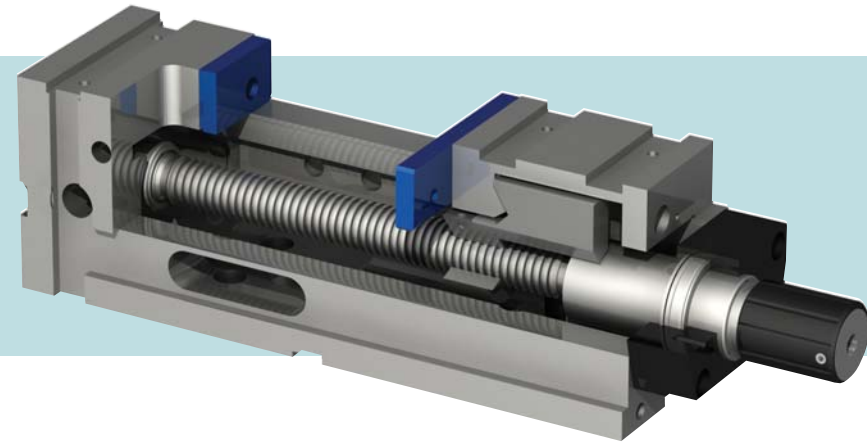


high pressure manual vises

Arnold Mat with Mechanical Booster

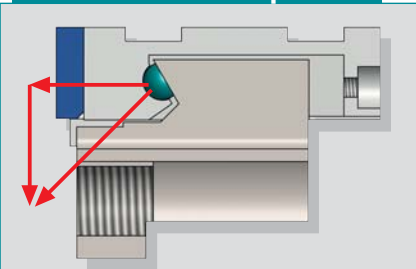
ARNOLD MAT MECHANICAL

vises maintain their length irrespective of the size of the part, a must for most machining centers.



- Possible mounting positions: on the base, on the side or on the head (vertically).
- Suitable for working in horizontal and vertical machining centers.
- Ground critical surfaces with a parallelism and perpendicularity of 0,02 mm (0.008").
- 0,01mm (0.004") clamping repeatability.
- Monoblock design avoids deformations due to high pressure and offers great rigidity.
- Side windows to enable the interior cleaning of the vises.
- Fitted with high pressure mechanical booster.
- Clamping force from 2,5 to 5 tons (5,500 to 11,000 lbs), depending on model.
- Power regulator optional.
- Constant clamping force for absolute clamping repeatability.
- Angle driver for handle clearance available.

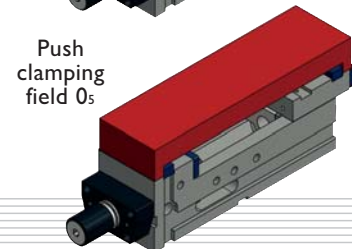
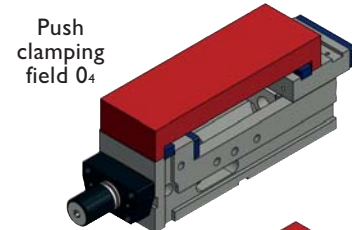
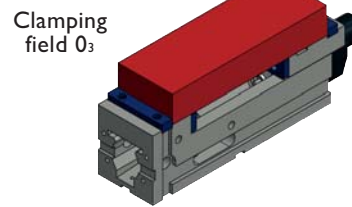
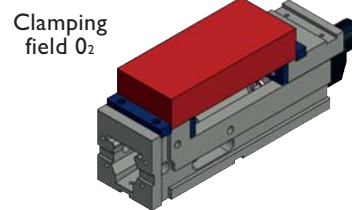
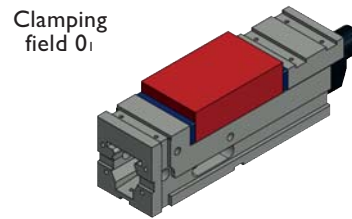
Pull-Down Semi-sphere



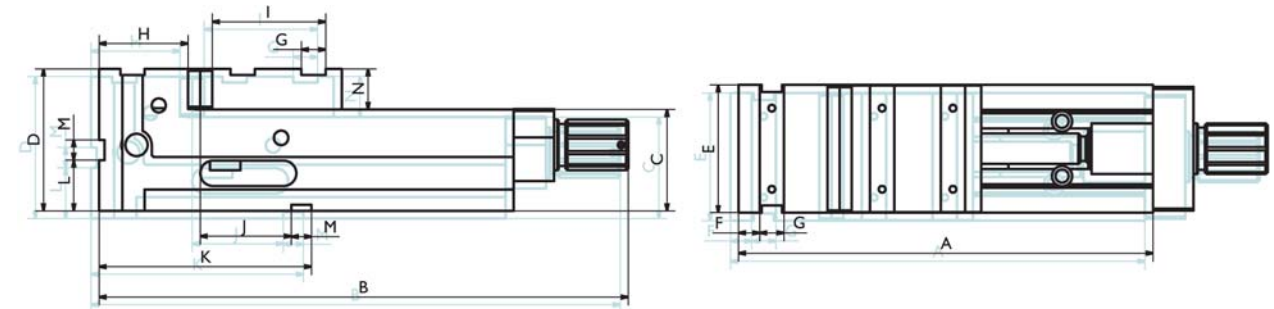
The ARNOLD MAT has a descending clamp system to avoid jaw-lift. A semi-sphere installed between the moveable jaw and the spindle shoe creates downward pressure.

- The high pressure mechanical spindle does not require any maintenance, as long as appropriate coolants are used.
- The ARNOLD mat mechanical vise has two clamping possibilities, either towards the fixed jaw (pull) or the opposite direction (push). Normal clamping is towards the fixed jaw (this is how the vise is supplied). Should push clamping be needed, then place the spindle on the rear part of the fixed jaw and rotate the spindle shoe and the moveable jaw.

Clamping possibilities



| Size | 090 | 125 | 160 | 200 |
|---|---------------------|----------------------|----------------------|----------------------|
| Arnold Mat Mechanical | 020 120 090 | 020 120 125 | 020 120 160 | 020 120 200 |
| Arnold Mat Mechanical with regulator | | 020 130 125 | 020 130 160 | 020 130 200 |
| Clamping force (kg / lbs) | 2.500 / 5,500 | 4.000 / 8,800 | 5.000 / 11,000 | 5.000 / 11,000 |
| A (mm / inches) | 300 / 11.81 | 410 / 16.14 | 570 / 22.44 | 570 / 22.44 |
| B (mm / inches) | 387 / 15.24 | 519 / 20.43 | 679 / 26.73 | 679 / 26.73 |
| B with regulator (mm / inches) | z | 548 / 21.57 | 708 / 27.87 | 708 / 27.87 |
| C - 0,02 (mm / inches) | 75 / 2.95 | 100 / 3.94 | 110 / 4.33 | 110 / 4.33 |
| D (mm / inches) | 115 / 4.53 | 140 / 5.51 | 160 / 6.30 | 173 / 6.81 |
| E (mm / inches) | 91 / 3.58 | 126 / 4.96 | 161 / 6.34 | 201 / 7.91 |
| F (mm / inches) | 21 / 0.83 | 21 / 0.83 | 21 / 0.83 | 21 / 0.83 |
| G (mm / inches) | 20 / 0.78 | 24 / 0.94 | 24 / 0.94 | 24 / 0.94 |
| H (mm / inches) | 58 / 2.28 | 88 / 3.46 | 99 / 3.90 | 99 / 3.90 |
| I (mm / inches) | 55 / 2.16 | 112 / 4.41 | 112 / 4.41 | 112 / 4.41 |
| J + 0,02 (mm / inches) | 40 / 1.57 | 90 / 3.54 | 115 / 4.53 | 111 / 4.37 |
| K (mm / inches) | 130 / 5.12 | 210 / 8.27 | 250 / 9.84 | 250 / 9.84 |
| L (mm / inches) | 40 / 1.57 | 50 / 1.97 | 60 / 2.36 | 60 / 2.36 |
| M H7 (mm / inches) | 20 / 0.78 | 20 / 0.79 | 20 / 0.79 | 20 / 0.79 |
| N (mm / inches) | 40 / 1.57 | 40 / 1.57 | 50 / 1.97 | 63 / 2.48 |
| Weight (kg / lbs) | 16 / 35 | 35 / 77 | 70 / 154 | 93 / 205 |
| Clampings | 090 | 125 | 160 | 200 |
| Clamping field 0 ₁ (mm / inches) | 0-135 / 0-5.31 | 0-200 / 0-7.87 | 0-314 / 0-12.36 | 0-314 / 0-12.36 |
| Clamping field 0 ₂ (mm / inches) | 80-210 / 3.15-8.27 | 80-285 / 3.15-11.22 | 110-420 / 4.33-16.53 | 110-420 / 4.33-16.53 |
| Clamping field 0 ₃ (mm / inches) | | 150-355 / 5.91-13.98 | 180-490 / 7.09-19.29 | 180-490 / 7.09-19.29 |
| Clamping field 0 ₄ (mm / inches) | 114-163 / 4.49-6.42 | 119-192 / 4.69-7.56 | 160-326 / 6.30-12.83 | 160-326 / 6.30-12.83 |
| Clamping field 0 ₅ (mm / inches) | | 189-262 / 7.44-10.31 | 228-393 / 8.98-15.47 | 228-393 / 8.98-15.47 |



Supplied with

- base body
- mechanical booster spindle
- 1 set of plain jaws
- 1 handle
- 4 toe clamps
- instruction manual



Optional Power Regulator