



PRX PINCH PEEL TOOL GRINDER



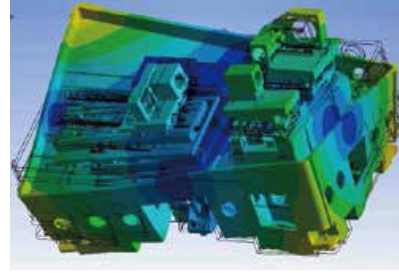
TP-4 is a 4-axis CNC precision cylindrical grinder with roughing and finishing axes as well as an ideal machine for grinding cylindrical materials of cutting tools and form punches. The equipment serves as a bridge between a centerless grinder and a 5-axis tool grinder. According to ISO230-2 and GB standards, the repeated positioning accuracy R is 2 μm , and the positioning accuracy A is 4 μm .

With V-Blocks and rotary wheels with compensation of a temperature control system, the dimension accuracy of continuous production can be set to 0.004 mm; the concentricity can be set to less than 0.003 mm; the total length of a rod material is 330mm; the diameter is between 0.1 to 16 mm; and the ratio of length to diameter is 350 to 1 in maximum.

Highlights:

- ✓ **Robot Arm** → automatic loading and unloading robot system.
- ✓ **Front Positioning and Size End Test Function** → clamping length of each workpiece before grinding.
- ✓ **HMI interface** → Ease of use
- ✓ **SMART CAM Software** → Heavy material removal (up to 10 mm per pass)
- ✓ **Machine structure** → The spindle grinder is equipped with two spindles
- ✓ **CAE analysis** → grinder structural strength and rigidity





Specifications

X-axis	1.18"	30 mm
Resolution	3.94e-6"	0.0001 mm
U-axis	1.18"	30 mm
Resolution	3.94e-6"	0.0001 mm
Z-axis	14.57"	370 mm
Resolution	3.94e-5"	0.001 mm
W-axis	3.94"	100 mm
Resolution	3.94e-5"	0.001 mm
Accuracy(A)	0.00016"	0.004 mm
Repeatability(R)	7.87e-5"	0.002 mm
X axis	0.75 kW	0.75 kW
U axis	0.75 kW	0.75 kW
Z axis	1.20 kW	1.20 kW
W axis	1.20 kW	1.20 kW
Shank	Ø0.12" - 0.63"	Ø 3-16 mm
Diameter	Ø0.0039" - 0.63"	Ø0.1-16 mm
Grinding Length	Max. 12.99"	Max. 330 mm
Shank	Ø0.12" - 0.63"	Ø3-16 mm
Overall Length	1.38" - 13.78"	35-350 mm
Shank	Ø0.12" - 0.63"	Ø3-16 mm
Overall Length	1.38"- 4.33"	35-110 mm
Roughing Rotational Speed	Max. 4500 rpm (Belt Type)	Max. 4500 rpm (Belt Type)
Roughing Motor	4.0 kW	4.0 kW
Roughing Wheel Diameter	Ø 9.84"	Ø 250 mm
Finishing Rotational Speed	Max. 10000 rpm (Electric Spindle Type)	Max. 10000 rpm (Electric Spindle Type)
Finishing Built-In Spindle Motor	4.2 kW	4.2 kW
Finishing Wheel Diameter	Ø 5.91"	Ø 150 mm
Rotation Speed	Max. 3000 rpm	Max. 3000 rpm
Motor	2.5 kW	2.5 kW
Taper	BT-40	BT-40
Motor	1.49 kW	1.49 kW
Type	FANUC	FANUC
Dimensions (L x W x H)	89.29" x 75.07" x 85.98"	2268 x 1907 x 2184 mm
Weight	10362lbs	4700 kg
Total Power	Max. 30 kVA	Max. 30 kVA
Air Pressure	Min. 5 Kg/cm ²	Min. 5 Kg/cm ²
Rated Flow	Min. 150 L/min	Min. 150 L/min

