

**Machine Name : Optical Profile Grinding Machine**

**Brand : PeTeWe**

**Machine Model : PFS 30**

**Stock No. : 69208**

**Ex-factory Date : 1980**



**Main Technical Parameters:**

Optical magnification: 10x / 20x / 50x (multi-magnification switching)

The optical projection field of view is approximately 300mm × 200mm (maximum projection field of view)

Transparent lighting CNC System 12V / 100W cold light source halogen lamp (anti-thermal deformation)

Grinding head rotation capacity:  $\pm 30^\circ$  on the Z-axis (capable of grinding bevels, meeting the requirements of taper and complex cutting edges)

The maximum speed of spindle is 15,000 RPM (high-speed electric spindle, ensuring excellent surface finish).

Compatible with grinding wheel diameters ranging from 40mm to 200mm (supporting multiple specifications of diamond /CBN grinding wheel)

Grinding travel range: 20 to 100 mm (travel length can be adjusted steplessly)

Reciprocating travel speed: 0-150 times /min (travel speed can be adjusted steplessly, suitable for rough grinding and fine grinding)

machining precision  $\pm 0.001\text{mm}$  (within 1 MIKRON)

Surface roughness Ra 0.01  $\mu\text{m}$  (mirror level)

Minimum machining R Angle R 0.03mm (suitable for extremely precise hard alloy molds)

Multi-axis simultaneous control capability XYUV four-axis simultaneous control (supporting extremely complex freeform surface forming)

Applicable vertical machining center materials: tungsten steel (cemented carbide), high-speed steel, ceramics, optical glass, semiconductor materials



