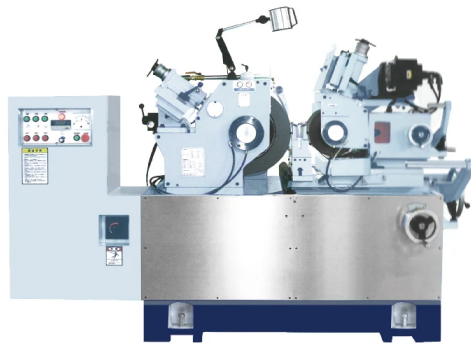


FX-18S High Precision Centerless Grinding Machine

Model FX-18S | Centerless Grinder | WUK Machinery, Shenzhen China



Overview

The FX-18S grinds from 0.5 mm up to 60 mm diameter on a 455 x 205 x 228.6 mm grinding wheel driven by a 15 HP motor. The regulating wheel is variable from 0 to 250 rpm with tilt from plus 6 to minus 3 degrees and swivel from plus 5 to minus 1 degree. Micro feed on the upper slide is graduated at 0.001 mm per scale division.

Who It Is For

Fastener and dowel pin producers, linear motion component makers, automotive tier suppliers, and shops grinding large repeat batches of turned or drawn bar.

Key Benefits

- **Diameter Range to 60 mm** – One machine covers small pins through to substantial shafts, which is the difference between buying one machine and buying two.
- **455 mm Wheel for Long Dress Intervals** – A large wheel holds its form longer, so a production run goes further between dresses and size drift is slower.
- **0.001 mm Micro Feed Graduation** – Upper slide micro feed at 0.1 mm per turn and 0.001 mm per division makes size correction a measured move.
- **15 HP Grinding Wheel Motor** – Enough power to keep wheel speed constant through a heavy through feed rate rather than bogging into the work.

Technical Features

- 455 x 205 x 228.6 mm grinding wheel at 1520 rpm
- 255 x 205 x 111.2 mm regulating wheel, variable 0 to 250 rpm
- 15 HP grinding wheel motor with 3.0 kW regulating wheel motor
- 2.0 HP hydraulic pump and 1/4 HP coolant pump
- Regulating wheel tilt +6 to -3 degrees, swivel +5 to -1 degrees
- Dressing device graduated at 0.01 mm per scale division

FX-18S Specifications

Figures are taken from the machine data sheet. Items not documented are marked TBC rather than estimated.

Grinding range (diameter)	0.5 to 60 mm
Grinding wheel size (dia x width x hole)	455 x 205 x 228.6 mm
Regulating wheel size (dia x width x hole)	255 x 205 x 111.2 mm
Grinding wheel speed	1520 rpm
Regulating wheel speed	0 to 250 rpm
Grinding wheel motor	15 HP
Regulating wheel motor	3.0 kW
Hydraulic pump motor	2.0 HP
Coolant pump motor	1/4 HP
Upper slide feed graduation	3.5 mm per turn, 0.05 mm per division
Upper slide micro feed graduation	0.1 mm per turn, 0.001 mm per division
Lower slide feed graduation	9.0 mm per turn, 0.1 mm per division
Lower slide micro feed graduation	0.2 mm per turn, 0.001 mm per division
Dressing device graduation	2.0 mm per turn, 0.01 mm per division
Regulating wheel tilt angle	+6 to -3 degrees
Regulating wheel swivel angle	+5 to -1 degrees
Machine dimensions (L x W x H)	2350 x 1960 x 1550 mm
Packing dimensions (L x W x H)	2900 x 2400 x 1850 mm
Net / gross weight	2850 / 3005 kg

Applications

- Through feed grinding of dowel pins and linear shafts
- Infeed grinding of shouldered parts and stepped rollers
- Finishing ground bar stock to size and finish
- Automotive component grinding in volume
- Preparing blanks for subsequent hard turning or honing operations

Materials and Construction

Heavy cast iron base with hardened ground slides, hydraulic infeed and independently driven grinding and regulating spindles. Blade material and wheel grade specified for the workpiece.

Quality Control Before Shipping

- Spindle run out checked on both wheel heads
- Slide feed graduation verified against a measured movement
- Regulating wheel tilt and swivel calibrated
- Ground sample parts measured for diameter, roundness and finish
- Electrical and safety inspection before crating



Customisation Options

- Work blade material and angle for your part diameter
- Through feed guides and part handling attachments
- Wheel and regulating wheel specification for your material
- Coolant filtration options
- Voltage and frequency configured for your supply

Certification

Certification is quoted and confirmed in writing on request. Documented certification status for this model is TBC.

Commercial Terms

- Minimum order: 1 set
- Delivery: 15 to 45 working days after deposit
- Trade terms: EXW, FOB, CFR and CIF
- Packing: plywood cases lined with plastic film
- Warranty: 12 months on the machine
- CNC control options where applicable: FANUC, SIEMENS, SYNTEC and GSK

Enquiries: WhatsApp +86 137 2585 2907 or wuk.machinery@hotmail.com. Web page: www.wuktech.com/products/fx-18s-centerless-grinding-machine.html