

WK700 Linear Sharpening Machine

Model WK700 | Customized Grinding Machine | WUK Machinery, Shenzhen China



Overview

The WK700 grinds straight knife cutters up to 700 mm long, 150 mm wide and 20 mm thick, with a maximum effective grinding length of 650 mm. The head adjusts from 0 to 90 degrees and drives a 150 x 50 x 32 mm wheel at 2840 rpm. At 1400 x 1200 x 610 mm and 230 kg it installs on a bench or stand in a maintenance workshop.

Who It Is For

Sheet metal and fabrication workshops, woodworking mills, converting and packaging plants, food processors, and maintenance teams sharpening straight blades in house.

Key Benefits

- **230 kg Installed Weight** – No foundation or rigging. The machine goes where the blades are, which is what makes daily sharpening realistic.
- **Blade Capacity 150 mm Wide and 20 mm Thick** – Heavy shear and chipper blades are handled, not just thin slitting knives.
- **Head Adjustment 0 to 90 Degrees** – Edge angle is set on the machine so each regrind repeats the blade's designed geometry.
- **Separate Feed and Pump Motors** – A 60 W feed motor and 40 W water pump run independently of the 4 kW head motor, so coolant is never starved during a slow pass.

Technical Features

- Maximum grinding length 700 mm with 650 mm effective
- Maximum cutter thickness 20 mm and width 150 mm
- Head angle adjustment 0 to 90 degrees
- 150 x 50 x 32 mm wheel at 2840 rpm
- Grinding head traverse 1 to 20 m per minute
- 4 kW head motor with 60 W feed motor and 40 W water pump

WK700 Specifications

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

Max grinding length	700 mm
Max effective grinding length	650 mm
Max grinding thickness of cutter	20 mm
Max grinding width of cutter	150 mm
Adjust angle of grinding head	0 to 90 degrees
Grinding wheel rotate speed	2840 rpm
Grinding wheel size (OD x T x ID)	150 x 50 x 32 mm
Grinding head moving speed	1 to 20 m/min
Grinding head rotate speed	1400 rpm
Grinding head motor power	4 kW
Feeding motor power	60 W
Water pump motor power	40 W
Machine overall dimensions (L x W x H)	1400 x 1200 x 610 mm
Machine weight	230 kg

Applications

- Sharpening shear and guillotine blades in sheet metal workshops
- Chipper and planer knife grinding in woodworking
- Slitting knife maintenance in converting and packaging
- Food processing blade sharpening on medium length knives
- Maintenance departments servicing their own straight blades

Materials and Construction

Machined bed with a traversing grinding head on ground ways, water cooled grinding. Wheel specification is selected for the blade steel and edge angle.

Quality Control Before Shipping

- Head angle scale calibrated against a measured setting
- Traverse speed checked across the full range
- Wheel speed verified at 2840 rpm
- Coolant flow confirmed at the contact zone
- Ground blade checked for edge straightness and finish
- Electrical and earth continuity inspection

Customisation Options

- Grinding length extended for longer blades
- Wheel specification for your blade steel
- Coolant filtration and splash guarding
- Voltage and frequency configured for your supply



- Purpose built variants designed from your drawing or sample blade

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

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