

TFG 150



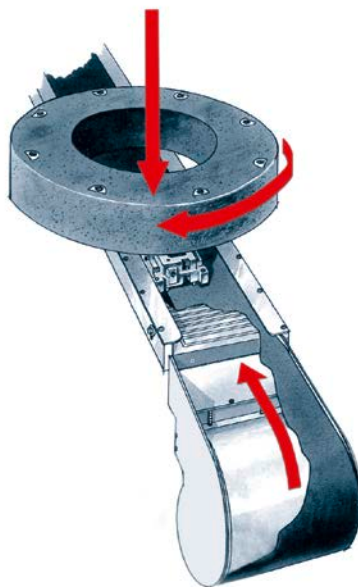
HIGH PRODUCTION SURFACE GRINDING (THRU-FEED GRINDING)



THE THRU-FEED GRINDER TFG 150

The Thru-Feed Grinder is a production flat machining process that does almost everything a conventional double disc or vertical spindle grinder can do and a great deal more.

The Thru-feed grinder is the most efficient method known for high production surface grinding of small to mid size parts because it practically eliminates non-productive time. With the Thru-Feed Grinder, all machine time is grinding time, little is lost on fix-turing and preparation such as set-up, and loading and unloading of parts. Parts of almost any material and shape are fed into the Thru-Feed Grinder via a conveyor belt passing beneath a grinding wheel and finished parts are discharged continuously. It's truly a high production grinding system.



Functional drawing

MACHINE FEATURES

Hardware

- 457 mm OD × 254 mm ID × 76 mm T Resin bond grinding wheel
- 152 mm W × 152 mm H × any length part
- 18.4 kW Water-cooled spindle motor
- Rigid welded support structure
- Adjustable guide rail system
- Four-guide post die set
- Magnetic chuck and conveyor system
- Automatic wheel wear compensation
- Electronic positioning
- Coolant distribution system
- Variable speed drive (0–5 meters per minute)
- Various steps of automation available

Software

- Touch Screen control system on a swing arm pendant
- Security access levels
- Detailed graphics with display of process parameters
- PLC control of all major functions
- Modem connection available
- Interlock system

Other Features

- Easy to access, low maintenance design

TYPICAL APPLICATIONS



Precision parts

TECHNICAL DATA

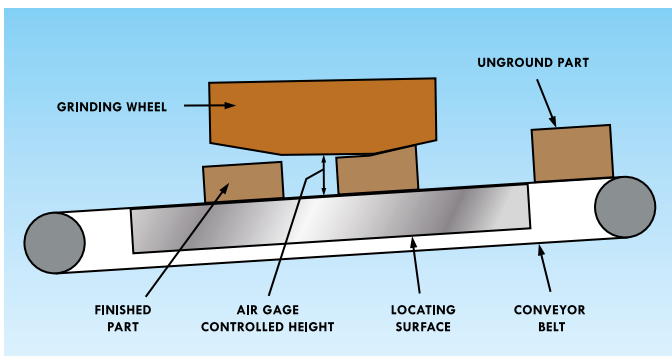
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Wheel Size (mm)	457 OD × 254 ID × 76 T
Parts Size Capacity (mm)	152 wide × 152 high
Main Spindle Motor Power (kW)	21.6
Main Spindle Speed (RPM)	1200
Feed Belt Motor Power (kW)	0.7
Feed Belt Speed (m/min)	0–5.1
Spindle Coolant System Capacity (L)	68
Magnetic Chuck Type	Permanent or Variable Magnet
Magnetic Chuck Dimensions (mm)	915 L × 150 W
Power Requirements	460V, 60Hz, 3 Ph
Air Supply Pressure	5.5 bar
Machine Net Weight (kg)	3350
Machine Dimensions (L × W × H) (mm)	2311 × 1447 × 2250 (2600*)

(*) 2600 mm Denotes Guard in UP Position



Grinding area



Functional drawing

BENEFITS

Hardware

- Self dressing wheel requires no conditioning or forming
- Wide variety of part configurations suitable for operation
- High kW per cm² in a self contained and monitored system
- Steel weldment with vibration dampening system
- For easy set-up from part to part
- Stable control and support of the grinding spindle, lowest work piece tolerances achievable
- For use in transferring ferrous or non-ferrous parts
- PLC controlled wheel wear compensation for accurate control of wheel positioning
- Used for easy set-up and quick change from part to part
- Designed for maximum coolant distribution to critical grinding area
- Variable controlled for operational flexibility
- Reduced cost per piece

Software

- Easy menu driven controls with step-by-step operations
- Four programmable levels of security access for process and programming access
- Help in visualization of process and process improvement
- Complete operational and maintenance views for simple diagnostics
- Factory support in real time directly with your machine
- Controls and monitors critical utilities and functions and shuts down the machine if requirements are not met

Other Features

- Low operating cost
- Individual process development ensures highest productivity

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