

GRINDING



JONES & SHIPMAN
SUPREMA
Touchscreen controlled
Cylindrical grinder

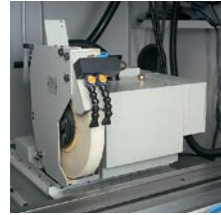


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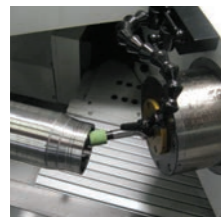
JONES & SHIPMAN HARDINGE
A KELLENBERGER COMPANY

SUPREMA OD ID grinding machines



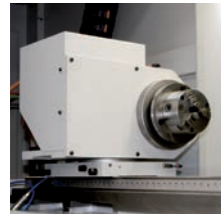
Wheelheads

- Robust Plain straight approach, external only, wheelhead. Wheels up to 450 x 80 mm with constant peripheral speed
- Swivelling Universal wheelhead provided as standard with air cushion and pneumatic clamping
- Equipped with left & right hand wheels and a belt driven internal grinding system ready to accept an optional internal spindle
- Both "Belt Driven" (standard) and "Self Driven" (option) Internal grinding wheel systems available
- Wheels are provided with retractable wheel guards



Workhead and Tailstocks

- Air purged live and dead centre swivel base workhead, with high precision taper roller bearings for superior stiffness and a synchronous belt variable speed drive that allows programmed speed rpm) or constant surface speed (m/sec.) of the workpiece
- Robust lever operated plain bearing high accuracy taper correction tailstock, provided as standard



Main machine castings

- Generously proportioned high quality cast iron bed, underslide, backslide and table, each casting designed to provide excellent rigidity
- All slideways are hand scraped with one surface Turcite® coated, all have automatic lubrication



Axes

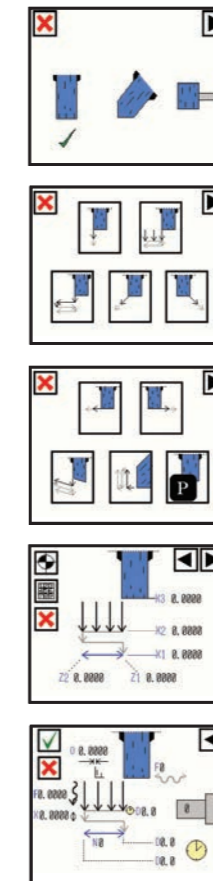
- Both axes are controlled & positioned by Fanuc® Digital AC servo motors.



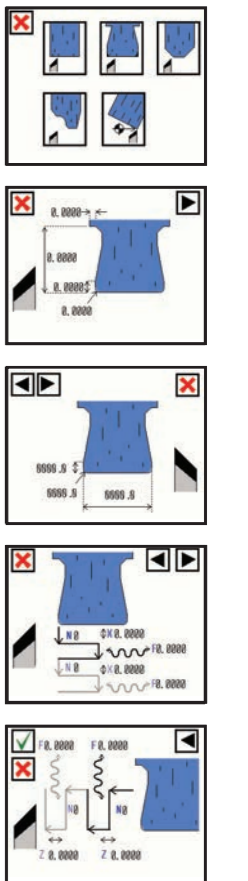
Jones & Shipman easy-to-use icon based software

with Fanuc® colour touchscreen control, can interpolate two axes simultaneously, to enable precision grinding of complex shapes, angles & diameters. Extra grind/dress cycles including Re grind, Profile & CAD/CAM are available with our Advanced Software Suite

Grind Cycle Screens



Dress Cycle Screens



'Self Teach' Easy Touchscreen control

Developed to offer to the operator the advantage of CNC control without the complexity of traditional CNC systems. At start-up three simple mode options are offered: Manual, Dress or Grind Cycle. Dress mode offers five standard wheel shape options - Straight, Slot, Facing, Vee form and Full ISO with one or two diamonds as needed. Grind cycle mode allows from 1 only, or up to 20 Grind cycles, as the complexity of the component dictates.



Specification

Model	650U/E	1000U/E	1500U/E
Control system	Fanuc® PowerMotion® with Colour Touchscreen		
Capacities			
Grinding length	650 mm	1000 mm	1500 mm
Centre height / grinding diameter		160 mm / 300 mm	
Weight between centres		100 kg	
Table			
Traverse distance	750 mm	1145 mm	1645 mm
Traverse speed, stepless, per minute		0,0001 mm - 12 m	
Table swivel - clockwise/anticlockwise	+9° / -9°	+8,2° / -8,2°	+5° / -5°
Electronic handwheel increment		0,001 / 0,010 / 0,100 mm	
Traverse control & feedback		Fanuc® digital AC servo motor*	
Wheelslide			
Total infeed		260 mm	
Infeed rate per minute		0,0001 mm - 6 mm	
Electronic handwheel increment		0,001 / 0,010 / 0,100 mm	
Infeed control & feedback		Fanuc® digital AC servo motor*	
Wheelhead			
Type	Swivelling		Fixed external
Main motor	4,2 kW		7,5 kW
Wheel speed	33 ms		45 ms
Left hand wheel (Ø x width x bore) max.	400 x 50 x 127 mm		450 x 80 x 203,2 mm
Right hand wheel (Ø x width x bore) max.	350 x 25 x 127 mm		N / A
Internal grinding system - spindle optional	Belt Driven		N / A
Internal grinding system motor power	2,2 kW		N / A
Internal grinding spindle options	Belt or Self Driven		N / A
Workhead			
Type		Live & dead centre	
Swivel range		-15° / +90°	
Speed range		0 - 660 r.p.m.	
Output torque		27 Nm	
Spindle taper		5 / 3 MT	
Data transfer protocol		USB	
Dimensions			
Machine weight, (approx.)	5440 kg	6220 kg	7450 kg
Shipping dimensions	18,22 m ³	24 m ³	28 m ³

*Optional Heidenhain® 'Absolute' 50 nanometer linear scale upgrade

Sales and Service

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