

GRINDING



JONES & SHIPMAN PROGRIND EASY

Touchscreen Controlled

High Precision, High Productivity,

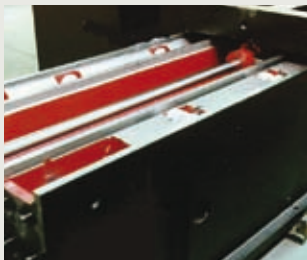
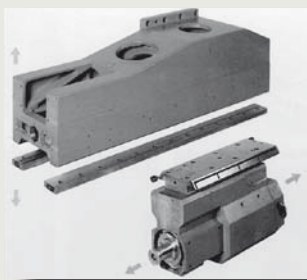
Surface Grinders



www.joneshipman.com
www.kellenberger.com

 **JONES & SHIPMAN**
A KELLENBERGER COMPANY

Heavy duty, high precision, surface grinding machines PR



Rigid construction and innovative design

Main machine castings

- Generously proportioned, high quality cast iron, bed, column, crosshead & table
- Each casting is designed to form an ultra rigid machine structure

Slideways

- The wheelhead moves in X & Y directions on adjustable gib slideways
- All slideways are hand scraped and have a patented lubrication system
- Hydraulic or ballscrew driven table options

Wheelhead

- Direct drive assembly with hardened & precision ground wheelspindle rotating in precision angular contact, rolling element bearings lubricated for life

Axes

- All ballscrew axes controlled and positioned by Fanuc® digital AC servo motors with linear scale feedback.
- The hydraulic table axis is powered from a heavy duty modular power pack

Accuracy

- Straightness 1000 mm : 0.002 mm or even less
- Flatness 1000 x 1000 mm : 0.004 mm or even less
- Parallelism 1000 x 1000 mm : 0.005 mm or even less

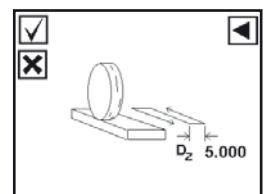
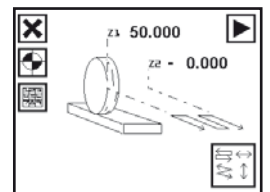
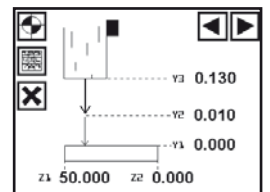
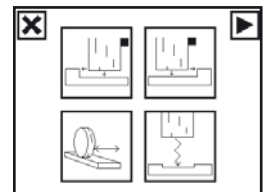
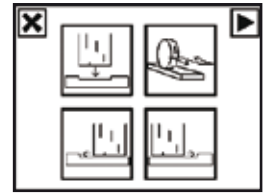
PROGRIND 1045 & 1267



Affordable & sophisticated surface grinding with simple set-ups

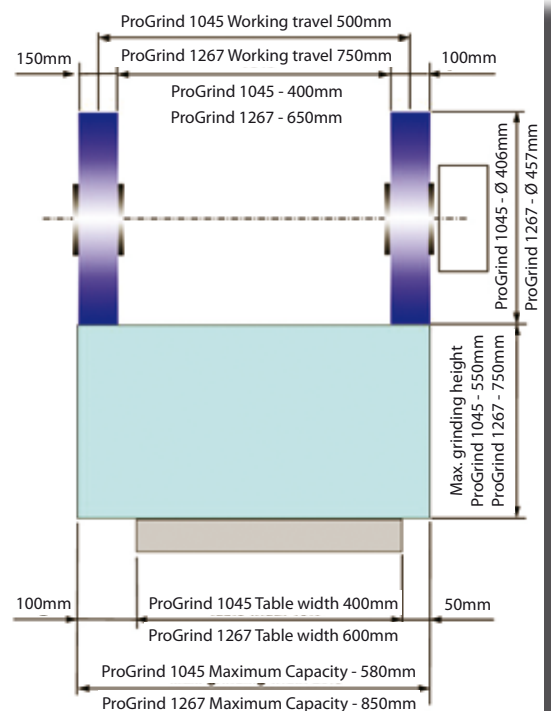
- Specifically designed to offer unrivalled ease-of-use coupled to the highest levels of productivity
- Easy manual, semi or fully automatic operation
- 'Self Teach' software enables inexperienced and experienced operators alike to be immediately more productive
- Quick set automatic dressing and grinding cycles enable unmanned operation
- Straight, facing, slotting or Vee form wheel macros
- Easy form dressing of complex profiles
- No optional complex dressing devices required
- Ability to use CBN and Diamond wheels
- Plunge, area, face, multi-plunge, multi-slot, multi-plunge and area grind macros
- Easy down load/up load to PC, PDA & Network

Grind cycle screens



Easy & rapid set-up for automatic grind cycles

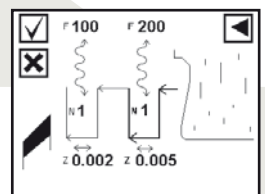
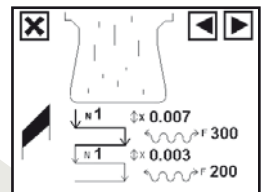
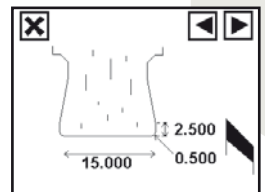
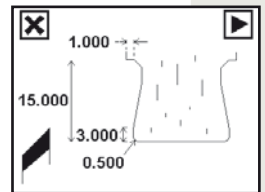
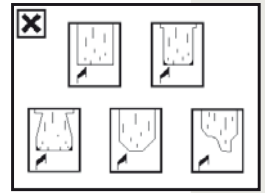
- At start-up the operator is offered three simple options: Manual, Dress or Grind cycle mode
- In Manual Mode the Easy operates as a simple hand controlled machine, with manual dress and no setup procedures. Work speeds and feeds are adjustable via the touchscreen
- Dress Mode offers five standard wheel shape options, Flat, Slot, Facing, Vee form and Full ISO with one or two diamonds as needed.



Easy Touchscreen control



Dress cycle screens



- Developed to offer to the operator the advantage of CNC control without the complexity of traditional CNC systems
- Jones & Shipman easy-to-use icon based software with Fanuc® touchscreen control can interpolate two axes simultaneously to enable precision grinding of complex shapes, angles and surfaces
- The operator is offered three modes of operation; Manual, Dress or Grind by simple single membrane button selection adjacent to the 'Touchscreen'
- This extremely simple system guides the operator and allows him to digitise positions and create programs without any computer knowledge

Automatic Compensated Dressing On Demand, In or Out of Cycle

- Straight or Formed wheel dressing can be called up at the touch of a button at any time in either Manual, Single cycle or Multi cycle mode with the 'Dress on Demand' feature.
- In a Grind cycle mode, the wheel will then return and continue from its last position.
- In addition, dressing can be selected to take place before and/or during the grind cycle via the 'In or Out of cycle' dressing feature.
- Compensation for dressing increments and diamond radii is automatic with all the above features.



Specification

1045Easy

1267Easy

General capacities

Maximum grinding length x width (with standard wheel)	1000 x 500 mm	1200 x 600 mm
Maximum grinding length x width (with 100mm wide wheel, see Grinding Capacities chart inside)	1000 x 580 mm	1200 x 850 mm
Distance between table and grinding wheel (new wheel)	550 mm	735 mm
Maximum table load (excluding chuck)	1200 kg	1696 kg

Wheelhead (Direct Drive)

Vertical movement (max)	600 mm	800 mm
Size of grinding wheel: Standard	406 x 80 x 152,4 mm bore	457 x 100 x 203,2 mm bore
Size of grinding wheel: Optional	406 x 100 x 152,4 mm bore	Options to suit application
Speed of grinding wheel – 50Hz motor	1400 rpm	1400 rpm
Speed of grinding wheel – 60Hz motor	1680 rpm	1680 rpm
Wheelhead motor	11 kW	22 kW

Table

Working surface	1000 x 400 mm	1200 x 600 mm
With standard chuck	1000 x 500 mm	1200 x 600 mm
Traverse, max. hand / hydraulic	1340 / 1220 mm	1610 / 1420 mm
Traverse speed range (per minute)	1 – 25 m	1 – 18 m
Width of tenon slots	3 x 14,4 mm	3 x 14,4 mm
Distance from floor to table	1030 mm	1030 mm

Crossfeed

Total cross traverse	530 mm	750 mm
Feed per graduation of electronic handwheel	0,001 / 0,010 / 0,100 mm	0,001 / 0,010 / 0,100 mm
Automatic feed, least programmable increment	0,0001 mm	0,0001 mm
Automatic feed rate (per minute)	1 - 3000 mm	1 - 3000 mm
Rapid feed rate	3000 mm	3000 mm
Sparkout under wheel	0 – 99	0 – 99
Crossfeed control	Fanuc® Digital AC servo	Fanuc® Digital AC servo
Feedback (Linear scale)	Heidenhain® 'Absolute' scale	Heidenhain® 'Absolute' scale

Wheelfeed

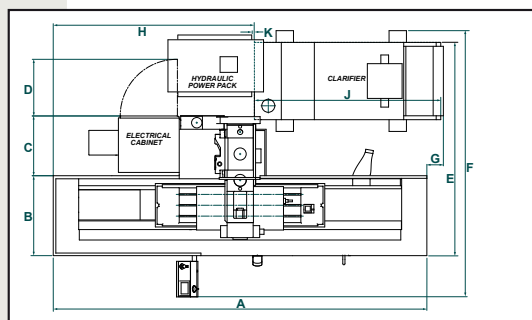
Feed per graduation of electronic handwheel	0,001 / 0,010 / 0,100 mm	0,001 / 0,010 / 0,100 mm
Automatic feed, least programmable increment	0,0001 mm	0,0001 mm
Rapid feed rate	3000 mm	3000 mm
Downfeed control	Fanuc® Digital AC servo	Fanuc® Digital AC servo
Feedback (Linear scale)	Heidenhain® 'Absolute' scale	Heidenhain® 'Absolute' scale

Data Transfer Protocol

1045	1267
RS 232 + Easy Comm	RS 232 + Easy Comm

Dimensions

Weight (approx.)	6700 kg	11800 kg
Shipping dimensions (approx.)	20 m ³	39 m ³



Base plan	1045	1267
A -	4300 mm	6202 mm
B -	920 mm	1152 mm
C -	688 mm	780 mm
D -	652 mm	1200 mm
E -	2455 mm	3280 mm
F -	3063 mm	3737 mm
G -	190 mm	315 mm
H -	2345 mm	4067mm
J -	2145 mm	2450 mm
K -	100 mm	100 mm
Machine Height	2840 mm	3255 mm

All specifications and designs are subject to alterations without notice.

Jones & Shipman also offer Smaller Capacity Surface Grinders, Creepfeed Grinders and Cylindrical Grinders for Toolroom and Production applications.

We also offer J&S Remanufactured and Used Grinders plus a full Spares & Service facility

World-wide sales and service



Through our Group Companies and an established network of distribution Jones & Shipman guarantee competent advice and support in evaluating, purchasing and using high-quality cylindrical, surface and creepfeed grinding systems.

Sales and service:

Jones & Shipman Grinding Limited

Murrayfield Road, Leicester
LE3 1UW, England

Tel: +44 (0) 116 201 3000

Fax: +44 (0) 116 201 3002

www.jonesshipman.com

info@jonesshipman.com

Jones & Shipman S.A.R.L.

Zone Activillage,

8 allée des Ginkgos, B.P. 112,

69672 BRON Cedex, France

Tel: +33 (0) 4 72 81 26 60

Fax: +33 (0) 4 72 81 26 69

www.jonesshipman.com

info@jonesshipman.com

L. Kellenberger & Co. AG

Heiligkreuzstrasse 28

9009 St.Gallen /Switzerland

Tel: +41 (0) 71 242 91 11

Fax: +41 (0) 71 242 92 22

www.kellenberger.com

info@kellenberger.net

L. Kellenberger & Co. AG

Längfeldweg 107

2500 Biel-Bienne 8 /Switzerland

Tel: +41 (0) 32 344 11 52

Fax: +41 (0) 32 341 13 93

www.kellenberger.com

Sales and service for China:

Hardinge China Ltd.

No.1388 Kangqiao Rd (East),
Shanghai, China 201319

Tel: +86 21 38108686

Fax: +86 21 38108681

Service:

Tel: +86 21 38108689

Sales:

Tel: +86 21 38108686 ext 8403

www.hardinge.com.cn

Sales and service in USA
& Canada:

Hardinge Inc.

One Hardinge Drive

P.O. Box 1507

Elmira, New York 14902-1507 USA

Tel: +1 (607) 734 2281

Fax: +1 (607) 735 0570

www.hardinge.com

www.kellenberger.com

info@kellenberger.com

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