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

## Specifications

### General Capabilities
- **Maximum grinding length**
  - 500 x 200 mm: 600 x 200 mm
  - 380 x 200 mm: 380 x 200 mm
- **Distance between table & new grinding wheel**:
  - 160 kg
- **Table traverse, max. hand / hydraulic**:
  - 610 x 500 mm: 710 x 400 mm

### Wheelhead
- **Size of grinding wheel, Standard**
- **Size of grinding wheel, Maximum**
- **No Cost wheel size Options**
- **Size of grinding wheel**:
  - Standard: 400 mm
  - Optional: 400 mm

### Table
- **Wheelhead capacity - (Both models)**
- **Machine weight (approx.)**: 1370 kg
- **Shipping dimensions**: 9.80 m

### Feedback (Linear scale)
- **Heidenhain® ‘Absolute’ scale**
- **Fanuc® digital AC servo**
- **USB memory stick**

### Wheelhead
- **Feed per graduation of electronic handwheel**
- **Automatic feed rate (per minute)**
- **Rapid feed rate (per minute)**
- **Wheelhead motor**: 2.2 kW / 3.75 kW

### Crossfeed
- **Crossfeed control**
- **Wheelhead motor**: 2.2 kW / 3.75 kW

### Data Transfer Protocol
- **Data Transfer Protocol**
- **Heidenhain® ‘Absolute’ scale**
- **Fanuc® digital AC servo**
- **USB memory stick**

### Dimensions
- **All specifications and designs are subject to alterations without notice**

## World-wide sales and service

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

### Sales and Service:
- **Jones & Shipman Ltd**
  - P.O. Box 230, 1524 Davis Road, Elgin, IL 60123 USA
  - Tel: +1 (607) 735 0570
  - Fax: +1 (607) 734 2281
- **Jones & Shipman (Canada)**
  - One Hardinge Drive, Elmira, New York 14902-1507 USA
  - Tel: +1 (607) 734 2281
  - Fax: +1 (607) 735 0570
- **Jones & Shipman (UK)**
  - P.O. Box 1507, One Hardinge Drive, Hardinge Inc., Murrayfield Road, Leicester, LE3 1UW, England
  - Tel: +44 (0) 116 201 3000
  - Fax: +44 (0) 116 201 3002
- **Jones & Shipman S.A.R.L**
  - 137 Rue des Genevilliers, B.P. 112, 69752 Mions Cedex, France
  - Tel: +33 (0) 4 72 81 26 60
  - Fax: +33 (0) 4 72 81 26 49
- **Jones & Shipman S.A.S**
  - 13 Rue Louis de Broc, 94330 Villabruna, France
  - Tel: +33 (0) 1 41 43 40 00
  - Fax: +33 (0) 1 41 43 40 99

## Your nearest Jones & Shipman Partner:

### Sales and service for China:
- **Hardings China Ltd.**
  - No.1388 Keguang Rd. (East), Shanghai, China 200109
  - Tel: +86 21 380 8868
  - Fax: +86 21 380 8869
- **Usach Technologies Inc.**
  - 1328 Davis Road, Belden, L. 61123 USA
  - Tel: +1 (867) 888 0140
  - Fax: +1 (847) 888 0148
- **Kellenberger & Co. AG**
  - 19 Bühlstrasse, CH-9009 St Gallen, Switzerland
  - Tel: +41 (0) 71 242 91 11
  - Fax: +41 (0) 71 242 70 22

### ISO 9001: 2008
- **Certificate No.**
- **FS 562751**
- **05.2014**

---

Jones & Shipman also offer Large Capacity Surface Grinders, Creepfeed Grinders and Cylindrical Grinders for Toolroom and Production applications.
Rigid construction and innovative design

Main machine castings
- Generously proportioned, high-quality cast iron, bed, column, saddle & table form the
  structure of the 524 & 624 Easy
- Each casting is designed to provide excellent rigidity

Slideways
- The wheelhead slide moves vertically on low-friction, pre-loaded ball and roller bearings
  for extreme sensitivity
- The table and saddle have hand-scraped slideways, Turcite® coated and automatically
  lubricated to ensure low friction

Wheelhead
- The wheelhead assembly contains a hardened and precision-ground wheelspindle
  that rotates in precision angular contact, rolling element bearings which are sealed and
  lubricated for life

Machine Guarding
- Fully interlocked enclosed table guarding is supplied as standard

Axes
- Both Y & Z axes are controlled and positioned by Fanuc® digital AC servo motors with
  Heidenhain® Absolute linear nano scale feedback
- The table axis is hydraulically powered from a modular power pack contained within
  the machine bed
- Table reversal length is easily set via sliding table dogs and proximity switches in the saddle

Affordable & sophisticated surface grinding with simple set-ups
- Specifically designed to offer unparalleled ease-of-use coupled to the highest levels of
  productivity
- Easy manual, semi or fully automatic operation
- “Self-Teach” software, now with colour graphics, 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
- Full optional complex dressing devices required
- Ability to use CBN and Diamond wheels
- Plunge, area, face, multi-plunge, multi-sink, multi-plunge & area grind macros
- Easy down load/ up load to USB memory stick

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 ROD 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

Optional equipment
- Elevating wheel dresser
- Coolant units, paper roll & magnetic
- Dust exhaust unit
- Variable grinding wheel speed
- Semi-automatic wheel balancing
- CAD/CAM package for producing
  complex wheel profile programs

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
- When in 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
Rigid construction and innovative design

Main machine castings
- Generously proportioned, high quality cast iron, bed, column, saddle & table form the structure of the 524 & 624 Easy
- Each casting is designed to provide excellent rigidity

Slideways
- The wheelhead slide moves vertically on low friction, pre-loaded ball and roller bearings for extreme sensitivity
- The table and saddle have hand scraped slideways, Turcite® coated and automatically lubricated to ensure low friction

Wheelhead
- The wheelhead assembly contains a hardened and precision ground wheelspindle that rotates in precision angular contact, rolling element bearings which are sealed and lubricated for life

Machine Guarding
- Fully interlocked enclosed table guarding is supplied as standard

Axes
- Both Y & Z axes controlled and positioned by Fanuc® digital AC servo motors with Heidenhain® Absolute linear nano scale feedback
- The table axis is hydraulically powered from a modular power pack contained within the machine bed
- Table reversal length is easily set via sliding table dogs and proximity switches in the saddle

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, now with colour graphics, 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-plunge & area grind macros
- Easy down load/up load to USB memory stick

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
- Grind Cycle mode allows from 1 only, or up to 20 Grind Cycles, as the complexity of the component dictates

Optional equipment
- Elevating wheel dresser
- Coolant units, paper roll & magnetic
- Dust exhaust unit
- Variable grinding wheel speed
- Semi-automatic wheel balancing
- CAD/CAM package for producing complex wheel profile programs

Easy Touchscreen control

Grind cycle screens

Dress cycle screens

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
- When in 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
Rigid construction and innovative design

Main machine castings
- Generously proportioned, high quality cast iron, bed, column, saddle & table form the structure of the 524 & 624 Easy
- Each casting is designed to provide excellent rigidity

Slideways
- The wheelhead slide moves vertically on low friction, pre-loaded ball and roller bearings for extreme sensitivity
- The table and saddle have hand scraped slideways, Turcite® coated and automatically lubricated to ensure low friction

Wheelhead
- The wheelhead assembly contains a hardened and precision ground wheelspindle that rotates in precision angular contact, rolling element bearings which are sealed and lubricated for life

Machine Guarding
- Fully interlocked enclosed table guarding is supplied as standard

Axes
- Both Y & Z axes are controlled and positioned by Fanuc® digital AC servo motors with Heidenhain® Absolute linear nano scale feedback
- The table axis is hydraulically powered from a modular power pack contained within the machine bed
- Table reversal length is easily set via sliding table dogs and proximity switches in the saddle

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, now with colour graphics, 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
- On board complex dressing devices required
- Ability to use CBN and Diamond wheels
- Plunge, area, face, multi-plunge, multi-volute, multi-plunge & area grind macros
- Easy down load/upload to USB memory stick

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
- Grind Cycle mode allows from 1 only, or up to 20 Grind Cycles, as the complexity of the component dictates

Optional equipment
- Elevating wheel dresser
- Coolant units, paper roll & magnetic
- Dust exhaust unit
- Variable grinding wheel speed
- Semi-automatic wheel balancing
- CAD/CAM package for producing complex wheel profile programs

Grind cycle screens

Dress cycle screens

Affordable & sophisticated surface grinding with simple set-ups

Easy & rapid set-up for automatic grind cycles

Optional equipment

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
- When in 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
## Specifications

### General capacities
- Maximum grinding wheel width: 500 x 200 mm, 600 x 200 mm
- Distance between table & new grinding wheel: 380 mm, 380 mm
- Maximum table load (including chuck, if used): 160 kg, 160 kg
- Table traverses, max. hand / hydraulic: 610 x 500 mm, 710 x 600 mm

### Wheelhead
- Size of grinding wheel: Standard
  - 254 x 17 x 76.2 mm
- Size of grinding wheel: Maximum
  - 254 x 32 x 76.2 mm
- Speed of grinding wheel – 50 Hz motor: 2400 rpm
- Speed of grinding wheel – 60 Hz motor: 2880 rpm
- Wheelhead motor: Standard / Optional
  - 2.2 kW / 3.75 kW

### Table
- Traverse speed range (per minute): 2 – 25 m
- Traverse per revolution of handwheel
  - Width of screw slot: 14.4 mm
  - Distance from floor to table: 1025 mm

### Crossfeed
- Feed per graduation of electronic handwheel
  - 0.001, 0.010, 0.100 mm
- Automatic feed, minimum programmable increment
  - 0.0001 mm
- Rapid feed rate (per minute): 3000 mm

### Wheelhead motor: Standard / Optional
  - 2.2 kW / 3.75 kW

### Data Transfer Protocol
- USB memory stick
- Feedback (Linear scale)
  - Heidenhain® ‘Absolute’ scale

### Dimensions
- Machine weight, (approx.): 1370 kg
- Shipping dimensions: 9.85 m³

### Wheelhead capacity - (Both models)
- A - Maximum/Minimum: 505 mm / 85 mm
- B - Maximum with new standard wheel: 378 mm
- C - 200 mm
- D - 10 mm
- E - 100 mm
- F - 192 mm
- G - 240 mm

### Base plan
- 524
- 624
- A - 2260 mm
- B - 1180 mm
- C - 710 mm
- D - 770 mm
- E - 1340 mm
- F - 1675 mm
- Machine Height (Both models): 1858 mm
### Specifications

**General capacities**
- Maximum grinding length x width: 500 x 200 mm / 600 x 200 mm
- Distance between table & new grinding wheel: 380 mm / 380 mm
- Maximum table load (including chuck, if used): 160 kg / 160 kg
- Table traverse, max. hand / hydraulic: 610 / 500 mm / 710 / 600 mm

**Wheelhead**
- Size of grinding wheel: Standard 254 x 76.2 mm / 237 x 76.2 mm
- Size of grinding wheel: Maximum 254 x 32 x 76.2 mm
- Speed of grinding wheel: 60 Hz (optional)
- Speed of grinding wheel: 50 Hz (options)
- Wheelhead motor: Standard / Optional
  - 2.2 kW / 3.7 kW

**Table**
- Traverse speed range (per minute): 2 – 25 m
- Traverse per revolution of handwheel: 60 mm
- Width of onion slit: 14.4 mm
- Distance from floor to table: 1025 mm

**Crossfeed**
- Tool cross traverse: 192 mm
- Feed per graduation of electronic handwheel: 0.010, 0.010, 0.010 mm
- Automatic feed, minimum programmable increment: 0.0001 mm
- Automatic feed rate (per minute): 1 – 3000 mm
- Rapid feed rate (per minute): 3000 mm
- Crossfeed control: Fanuc® digital AC servo
- Feedback (Linear scale):
  - Heidenhain® ‘Absolute’ scale

**Wheelhead**
- Feed per graduation of electronic handwheel: 0.010, 0.010, 0.010 mm
- Automatic feed, minimum programmable increment: 0.0001 mm
- Automatic feed rate (per minute): 3000 mm
- Downfeed control: Fanuc® digital AC servo
- Feedback (Linear scale):
  - Heidenhain® ‘Absolute’ scale

**Data Transfer Protocol**
- USB memory stick

**Dimensions**
- Machine weight, (approx.): 1370 kg
- Shipping dimensions: 9.85 m³

**Wheelhead capacity - (Both models)**
- A - Maximum/Minimum: 505 mm / 85 mm
- B - Maximum with standard wheel: 378 mm
- C - 200 mm
- D - 10 mm
- E - 100 mm
- F - 192 mm
- G - 240 mm

**Base plan**
- 524 Easy: 2260 mm
- 624 Easy: 2360 mm
- 524 Easy: 1180 mm
- 624 Easy: 1180 mm
- 524 Easy: 710 mm
- 624 Easy: 710 mm
- 524 Easy: 770 mm
- 624 Easy: 770 mm
- 524 Easy: 1340 mm
- 624 Easy: 1340 mm
- 524 Easy: 1675 mm
- 624 Easy: 1675 mm

**Machine Height (Both models)**
- 1858 mm

---

**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 creepfed grinding systems.**

**Sales and service:**

**Jones & Shipman Ltd**
- *Heilbronnstrasse 28*
- *9008 St. Gallen, Switzerland*
- Tel: +41 (0) 71 242 91 11
- Fax: +41 (0) 71 242 70 22
- www.kellenberger.com
- info@kellenberger.net

**Jones & Shipman Ltd**
- *Längfeldweg 107*
- *2500 Biel-Bienne, Switzerland*
- Tel: +41 (0) 32 344 11 52
- Fax: +41 (0) 32 341 13 93
- www.kellenberger.com

**Jones & Shipman Ltd**
- *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 Ltd**
- *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

**Jones & Shipman Ltd**
- *No. 1388 Kangqiao Rd (East), Shanghai, China, 201319*
- Tel: +86 21 3810 8686
- Fax: +86 21 3810 8681
- Service: Tel: +86 21 3810 8689
- www.hardinge.com.cn
- info@usach.com

**Hardinge China Ltd.**
- *No.1388 Kangqiao Rd (East), Shanghai, China 201319*
- Tel: +86 21 3810 8686
- Fax: +86 21 3810 8681
- Service: Tel: +86 21 3810 8689
- www.hardinge.com.cn
- info@usach.com

**Usach Technologies Inc.**
- *1524 Davis Road*
- *Elgin, IL 60123, USA*
- Tel: +1 (847) 888 0148
- Fax: +1 (847) 888 0144
- www.usach.com
- info@usach.com

---

**Your nearest Jones & Shipman Partner:**

---

All specifications and designs are subject to alterations without notice.

---

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

---

*www.jonesshipman.com*
*www.kellenberger.com*