Clausing

SURFACE GRINDERS

A Line of Precision Low-cost, High Performance Surface Grinders

Celebrating Over 103 Years in the Machine Tool Business

- Precision Manual Surface Grinders
- Precision Hydraulic Surface Grinders
- Precision Automatic Surface Grinders
Clausing Precision 618 & 818 Series Surface Grinders

- Manual Surface Grinders
- Longitudinal Hydraulics and Motorized Crossfeed Surface Grinders (2A Models)
- Longitudinal Hydraulics, Motorized Crossfeed and Motorized Rapid Up/Down Surface Grinders (3A Models)

Outstanding Features...

- **High Precision Cartridge Spindle**
  High precision cartridge type spindle is supported by 2 preloaded precision angular contact ball bearings & one NN type roller bearing and driven by V3 class motor that allows highly accurate grinding performance. (CSG618/818 series driven by 2HP motor).

- **Anti-wear Guide Ways**
  The saddle rests on precision hand-scraped double V ways & the table rests on precision hand-scraped V & flat ways which are coated with ‘TURCITE-B’. These guide ways are equipped with auto lubrication to resist wear for lasting accuracy & dampening. CSG618/818 hand feed grinders have ballways between table and saddle.

- **Rigid Cast Construction**
  Machines are constructed of high grade cast iron with heavy walls & reinforced ribs to provide excellent rigidity and dampening.

- **Enlarged Column & Base**
  Enlarged column & base create high stability & rigidity. The maximum height is 18" (460mm) from table surface to the center line of spindle.

- **Auto Lube System**
  Automatic lubrication system is supplied as standard to ensure sufficient lubrication to lead-screws & guideways for greater longevity.

- **Timing Belt Table Drive**
  Handfeed models (CSG618/818 only) use a timing belt for the table drive which has enclosed high tensile steel cores that ensure more smooth table movement and longevity. The table handwheel can be indexed to 9 different positions, without backlash, for more convenient operation.

- **Longitudinal & Cross Drive**
  For all models, except CSG618 & 818 handfeed, the longitudinal movement is driven by a hydraulic system; On 2A and 3A series, the cross movement is driven by motor for more accurate increment feeding.
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>CS618H</th>
<th>CS2A618</th>
<th>CS3A618</th>
<th>CS818H</th>
<th>CS2A818</th>
<th>CS2A618</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Table Size</strong></td>
<td>6&quot; x 18&quot; (152 x 460mm)</td>
<td>6&quot; x 18&quot; (152 x 460mm)</td>
<td>6&quot; x 18&quot; (152 x 460mm)</td>
<td>8&quot; x 18&quot; (203 x 460mm)</td>
<td>8&quot; x 18&quot; (203 x 460mm)</td>
<td>8&quot; x 18&quot; (203 x 460mm)</td>
</tr>
<tr>
<td><strong>Max. grinding length (longitudinal)</strong></td>
<td>19&quot; (480mm)</td>
<td>19&quot; (480mm)</td>
<td>19&quot; (480mm)</td>
<td>19&quot; (480mm)</td>
<td>19&quot; (480mm)</td>
<td>19&quot; (480mm)</td>
</tr>
<tr>
<td><strong>Max. grinding width (crosswise)</strong></td>
<td>7&quot; (179mm)</td>
<td>6.61&quot; (168mm)</td>
<td>6.61&quot; (168mm)</td>
<td>9.375&quot; (238mm)</td>
<td>9&quot; (228mm)</td>
<td>9&quot; (228mm)</td>
</tr>
<tr>
<td><strong>Max. distance from table surface to spindle centerline (standard column)</strong></td>
<td>18&quot; (460mm)</td>
<td>18&quot; (460mm)</td>
<td>18&quot; (460mm)</td>
<td>18&quot; (460mm)</td>
<td>18&quot; (460mm)</td>
<td>18&quot; (460mm)</td>
</tr>
<tr>
<td><strong>Standard magnetic chuck size (std. column)</strong></td>
<td>6&quot; x 18&quot; (150 x 450mm)</td>
<td>6&quot; x 18&quot; (150 x 450mm)</td>
<td>6&quot; x 18&quot; (150 x 450mm)</td>
<td>8&quot; x 18&quot; (200 x 450mm)</td>
<td>8&quot; x 18&quot; (200 x 450mm)</td>
<td>8&quot; x 18&quot; (200 x 450mm)</td>
</tr>
</tbody>
</table>

### Longitudinal movement of table

- **Max. travel (hydraulic)**: - | 19" (480mm) | 19" (480mm) | - | 19" (480mm) | 19" (480mm) | -
- **Max. travel (manual)**: 20" (510mm) | 20" (510mm) | 20" (510mm) | 20" (510mm) | 20" (510mm) | 20" (510mm) | 20" (510mm)
- **Table speed infinitely variable**: - | 196"-984"/min. | 196"-984"/min. | - | 196"-984"/min. | 196"-984"/min. | -

### Crossfeed transverse travel

- **Auto transverse increment**: - | .04" - .4"(1-10mm) | .04" - .4"(1-10mm) | - | .04" - .4"(1-10mm) | .04" - .4"(1-10mm) | .04" - .4"(1-10mm)
- **Max. auto transverse travel**: 7.68" (195mm) | 7.68" (195mm) | 7.68" (195mm) | 9.84" (250mm) | 9.84" (250mm) | 9.84" (250mm) |
- **Max. manual transverse travel**: - | 0.2" (5mm) | 0.2" (5mm) | 0.2" (5mm) | 0.2" (5mm) | 0.2" (5mm) | 0.2" (5mm)
- **Handwheel per revolution**: 0.0008" (.02mm) | 0.0008" (.02mm) | 0.0008" (.02mm) | 0.0008" (.02mm) | 0.0008" (.02mm) | 0.0008" (.02mm) |
- **Wheelhead vertical downfeed**: - | 0.4" (1mm) | 0.4" (1mm) | 0.4" (1mm) | 0.4" (1mm) | 0.4" (1mm) | 0.4" (1mm)
- **Handwheel per revolution**: 0.0002" (.005mm) | 0.0002" (.005mm) | 0.0002" (.005mm) | 0.0002" (.005mm) | 0.0002" (.005mm) | 0.0002" (.005mm) |

### Grinding spindle drive

- **Speed (rpm)**: 3450 | 3450 | 3450 | 3450 | 3450 | 3450
- **Power rating**: 2 Hp | 2 Hp | 2 Hp | 2 Hp | 2 Hp | 2 Hp

### Standard grinding wheel

- **Diameter**: 8" (203mm) | 8" (203mm) | 8" (203mm) | 8" (203mm) | 8" (203mm) | 8" (203mm)
- **Width**: 5" (127mm) max. 75" (19mm) | 5" (127mm) max. 75" (19mm) | 5" (127mm) max. 75" (19mm) | 5" (127mm) max. 75" (19mm) | 5" (127mm) max. 75" (19mm) | 5" (127mm) max. 75" (19mm)
- **Bore**: 1.25" (31.75mm) | 1.25" (31.75mm) | 1.25" (31.75mm) | 1.25" (31.75mm) | 1.25" (31.75mm) | 1.25" (31.75mm)

### Hydraulic motor (power rating)

- **Hydraulic motor (power rating)**: - | 1 Hp x 6P | 1 Hp x 6P | - | 1 Hp x 6P | 1 Hp x 6P

### Crossfeed motor (power rating)

- **Crossfeed motor (power rating)**: - | 1/6 Hp x 6P | 1/6 Hp x 6P | - | 1/6 Hp x 6P | 1/6 Hp x 6P

### Elevating motor (power rating)

- **Elevating motor (power rating)**: - | - | - | - | 40W x 4P | -

### Total space required (LxWxH)

- **Total space required (LxWxH)**: 71" x 45" x 65" (1810x1133x1660mm) | 71" x 45" x 65" (1810x1133x1660mm) | 71" x 45" x 65" (1810x1133x1660mm) | 71" x 50.6" x 66" (1810x1285x1680mm) | 71" x 50.6" x 66" (1810x1285x1680mm) | 71" x 50.6" x 66" (1810x1285x1680mm)

### Weight

- **Net weight**: 1,873 lbs (850kg) | 2,138 lbs (970kg) | 2,204 lbs (1000kg) | 2,662 lbs (1210kg) | 2,954 lbs (1340kg) | 3,031 lbs (1375kg)
- **Gross weight**: 1,587 lbs (720kg) | 1,808 lbs (820kg) | 1,874 lbs (850kg) | 2,332 lbs (11060kg) | 2,579 lbs (1170kg) | 2,657 lbs (1205kg)
- **Rated power, approx**: 2 Hp (1.5 kw) | 3 Hp (2.3 kw) | 3 Hp (2.3 kw) | 2 Hp (1.5 kw) | 3 Hp (2.3 kw) | 3 Hp (2.3 kw)
- **Packing dimensions (L x W x H)**: 51" x 45" x 76" (1300x140x1930mm) | 65" x 45" x 76" (1650x140x1930mm) | 71" x 52" x 76" (1800x320x1930mm) | 60" x 45" x 76" (1530x300x1930mm) | 67" x 53" x 76" (1710x340x1930mm) | 75" x 56" x 76" (1890x430x1930mm)

Machine design and specifications are subject to change without notice.
Clausing Precision 10 - 12 - 16 Series Surface Grinders

- Longitudinal Hydraulics and Motorized Crossfeed Surface Grinders
- Longitudinal Hydraulics, Motorized Crossfeed and Motorized Rapid Up/Down Surface Grinders

**Outstanding Features...**

- **Column**
  Wide, deep base & honeycomb ribbing are especially suitable for heavy duty grinding.

- **Construction**
  Table, saddle and base are cast from high grade iron, strongly ribbed.

- **Spindle**
  Large diameter spindle is supported by four preloaded precision angular contact ball bearings & one NU type Roller bearing for durable, heavy duty operation.

- **Enlarged Column & Base**
  Enlarged column & base create high stability & rigidity. The maximum height is 18" (460mm) from table surface to the center line of spindle.

- **Slideways**
  Vertical, cross (double vees) and longitudinal (vee & flat) slideways are coated with Turcite-B, to provide stable movement and durable accuracy.

- **Automatic Continuous Lubrication System**
  All slideways and screws are fully oiled by automatic continuous lubrication system to minimize wear on slideways & screws.

- **Cross Feed**
  Ball screw for cross travel, powered by AC motor.

- **Proximity**
  Has a built-in type (hidden) proximity switch for easy operation.

- **Table Speed Control**
  Presettable hydraulic table speed control allows operator to pre-set speed rate, enables you to have same speed rate when engaging hydraulic table every time.
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>CS2A1020</th>
<th>CS3A1020</th>
<th>CS2A1224</th>
<th>CS3A1224</th>
<th>CS3A1228</th>
<th>CS3A1236</th>
<th>CS3A1632</th>
<th>CS3A1640</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Table Size</strong></td>
<td>10” x 20” (254 x 508mm)</td>
<td>10” x 20” (254 x 508mm)</td>
<td>11.81” x 23.62” (300 x 600mm)</td>
<td>11.81” x 23.62” (300 x 600mm)</td>
<td>12” x 28” (305 x 712mm)</td>
<td>12” x 36” (305 x 915mm)</td>
<td>16” x 32” (406 x 813mm)</td>
<td>16” x 40” (406 x 1020mm)</td>
</tr>
<tr>
<td><strong>Max. grinding length (longitudinal)</strong></td>
<td>20.47” (520mm)</td>
<td>20.47” (520mm)</td>
<td>23.62” (600mm)</td>
<td>23.62” (600mm)</td>
<td>28” (712mm)</td>
<td>36” (915mm)</td>
<td>32” (813mm)</td>
<td>40” (1020mm)</td>
</tr>
<tr>
<td><strong>Max. grinding width (crosswise)</strong></td>
<td>7.5” (190mm)</td>
<td>7.5” (190mm)</td>
<td>8” (203mm)</td>
<td>8” (203mm)</td>
<td>10.25” (260mm)</td>
<td>15” (381mm)</td>
<td>17” (432mm)</td>
<td>18” (460mm)</td>
</tr>
<tr>
<td><strong>Max. distance from table surface to spindle centerline (standard column)</strong></td>
<td>(optional column)</td>
<td>(optional column)</td>
<td>(optional column)</td>
<td>(optional column)</td>
<td>(optional column)</td>
<td>(optional column)</td>
<td>(optional column)</td>
<td>(optional column)</td>
</tr>
<tr>
<td><strong>Standard grinding wheel</strong></td>
<td>10” x 20” (250 x 500mm)</td>
<td>10” x 20” (250 x 500mm)</td>
<td>11.81” x 23.63” (300 x 600mm)</td>
<td>11.81” x 23.63” (300 x 600mm)</td>
<td>11.81” x 27.56” (300 x 700mm)</td>
<td>11.81” x 35.43” (300 x 900mm)</td>
<td>15.75” x 31.5” (400 x 800mm)</td>
<td>15.75” x 39.37” (400 x 1000mm)</td>
</tr>
</tbody>
</table>

**Machine design and specifications are subject to change without notice.**

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**Notes:**

- **2A:** Longitudinal Hydraulics and Motorized Crossfeed
- **3A:** Longitudinal Hydraulics, Motorized Crossfeed and Motorized Rapid Up/Down
Clausing Precision ASDIII Automatic Surface Grinders

ASDIII Series Operation Panel

Delta PLC Digital Control features a 7.2" color touch screen and is equipped with the exclusive EQUIPTOP picture mode working system, easy to learn and operate.

ASDIII Series Precision Automatic Surface Grinder Features...

- On ASDIII models, you can set the vertical zero point, start point, finish grinding volume, target point and the grinding wheel rise-up point.
- The machine features a simple and clear digital display & touch control panel for easy learning and operation.
- Vertical feed powered by dual motors, AC motor for rapid up / down and stepping motor for micro downfeed positioning, slow auto downfeed and slow up / down.
- Vertical positioning is displayed on the screen showing present spindle and setting the start point, rough grinding volume, finish grinding volume, downfeed volume for finish grinding, target point, rise up point, intermittent spark-out.
- Cross transverse travel powered by DC servo motor, allows step feed and continuous infeed grinding.
- The speed of wheel dressing can be adjusted on the control panel.
- Wide, deep base and honeycomb ribbed column on 10, 12, 16 & 20 series, designed for heavy-duty grinding.
- High quality, ribbed, cast iron table, saddle and base.
- All slideways and screws are fully oiled by an automatic continuous lubrication system to minimize wear on slideways & screws.
- High Grade Anti-Wear Slideways... The saddle rides on precision, hand-scraped double V ways, and the table rides on precision hand-scraped V and flat ways coated with “TURCITE-B”.
- Precision spindle cartridge, supported by preloaded precision angular contact ball bearings and one NN type roller bearing on 618 & 818 models.
- Presetable hydraulic table speed control allows operator to pre-set speed rate, so you can have the same speed rate every time the hydraulic table is engaged (10, 12, 16 series).
- Ballscrew for cross travel, powered by DC servo motor.
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>CSG18ASDIII</th>
<th>CSG1020ASDIII</th>
<th>CSG1224ASDIII</th>
<th>CSG1228ASDIII</th>
<th>CSG1228ASDIII</th>
<th>CSG132ASDIII</th>
<th>CSG1640ASDIII</th>
<th>CSG2040ASDIII</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Table Size</strong></td>
<td>8&quot; x 18&quot; (203 x 460mm)</td>
<td>10&quot; x 20&quot; (254 x 508mm)</td>
<td>12&quot; x 24&quot; (305 x 600mm)</td>
<td>12&quot; x 28&quot; (305 x 712mm)</td>
<td>12&quot; x 36&quot; (305 x 915mm)</td>
<td>16&quot; x 32&quot; (406 x 813mm)</td>
<td>16&quot; x 40&quot; (406 x 1020mm)</td>
<td>20&quot; x 40&quot; (506 x 1020mm)</td>
</tr>
<tr>
<td><strong>Max. grinding length (longitudinal)</strong></td>
<td>19&quot; (480mm)</td>
<td>20.47&quot; (520mm)</td>
<td>23.62&quot; (600mm)</td>
<td>28&quot; (700mm)</td>
<td>36&quot; (915mm)</td>
<td>32&quot; (813mm)</td>
<td>40&quot; (1020mm)</td>
<td>40&quot; (1020mm)</td>
</tr>
<tr>
<td><strong>Max. grinding width (crosswise)</strong></td>
<td>9&quot; (228mm)</td>
<td>11&quot; (280mm)</td>
<td>11.81&quot; (300mm)</td>
<td>13&quot; (330mm)</td>
<td>13&quot; (330mm)</td>
<td>16&quot; (410mm)</td>
<td>16&quot; (410mm)</td>
<td>20&quot; (500mm)</td>
</tr>
<tr>
<td><strong>Max. distance from table surface to spindle centerline: standard optional</strong></td>
<td>18&quot; (460mm)</td>
<td>19.68&quot; (500mm)</td>
<td>23&quot; (585mm)</td>
<td>24.8&quot; (630mm)</td>
<td>24.8&quot; (630mm)</td>
<td>24.8&quot; (630mm)</td>
<td>24.8&quot; (630mm)</td>
<td>24.8&quot; (630mm)</td>
</tr>
<tr>
<td><strong>Standard magnetic chuck size</strong></td>
<td>8&quot; x 16&quot; (200 x 400mm)</td>
<td>10&quot; x 20&quot; (250 x 500mm)</td>
<td>11.81&quot; x 23.63&quot; (300 x 600mm)</td>
<td>11.81&quot; x 27.56&quot; (300 x 700mm)</td>
<td>11.81&quot; x 35.43&quot; (300 x 900mm)</td>
<td>15.75&quot; x 31.5&quot; (400 x 800mm)</td>
<td>15.75&quot; x 39.37&quot; (400 x 1000mm)</td>
<td>19.68&quot; x 39.37&quot; (500 x 1000mm)</td>
</tr>
<tr>
<td><strong>Packing dimensions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Net weight</strong></td>
<td>2,657 lbs (1205kg)</td>
<td>3,990 lbs (1810kg)</td>
<td>4,387 lbs (1990kg)</td>
<td>6,659 lbs (3020kg)</td>
<td>7,341 lbs (3330kg)</td>
<td>7,496 lbs (3400kg)</td>
<td>8,818 lbs (4000kg)</td>
<td>10,582 lbs (4800kg)</td>
</tr>
<tr>
<td><strong>Gross weight (lbs)</strong></td>
<td>3,031 lbs (1375kg)</td>
<td>4,762 lbs (2160kg)</td>
<td>5,038 lbs (2290kg)</td>
<td>7,760 lbs (3520kg)</td>
<td>8,157 lbs (3700kg)</td>
<td>8,818 lbs (4000kg)</td>
<td>9,920 lbs (4500kg)</td>
<td>11,464 lbs (5200kg)</td>
</tr>
<tr>
<td><strong>Rated power, approx.</strong></td>
<td>3 Hp (2.3kW)</td>
<td>5.2 Hp (3.9kW)</td>
<td>8.25 Hp (6kW)</td>
<td>11 Hp (8.2kW)</td>
<td>11 Hp (8.2kW)</td>
<td>11 Hp (8.2kW)</td>
<td>11 Hp (8.2kW)</td>
<td>11 Hp (8.2kW)</td>
</tr>
<tr>
<td><strong>Packing dimensions</strong></td>
<td>75&quot; x 66&quot; x 76&quot; (1900 x 1650 x 1930mm)</td>
<td>91&quot; x 84&quot; x 83&quot; (2290 x 2130 x 2100mm)</td>
<td>98&quot; x 84&quot; x 83&quot; (2480 x 2140 x 2100mm)</td>
<td>98&quot; x 90&quot; x 87&quot; (2500 x 2900 x 2200mm)</td>
<td>107&quot; x 90&quot; x 87&quot; (2720 x 2920 x 2200mm)</td>
<td>107&quot; x 90&quot; x 87&quot; (2720 x 2920 x 2200mm)</td>
<td>128&quot; x 90&quot; x 87&quot; (3250 x 2920 x 2200mm)</td>
<td>138&quot; x 90&quot; x 87&quot; (3500 x 2920 x 2200mm)</td>
</tr>
</tbody>
</table>

*ADSII models have no elevating handwheel but jog buttons per revolution or graduations. Machine design, control, and specifications are subject to change without notice.*
Clausing Large Capacity Precision ASDIII Automatic Surface Grinders

Large Capacity Precision Automatic Surface Grinders Features...

- Large capacity up to 32" x 120" (810 x 3050mm) Table
- Enlarged extra strong ribbed column, ideal for heavy-duty grinding
- Table, saddle and base are constructed of high grade cast iron and ribbed for maximum strength
- Spindle is supported by 4 front and 2 rear precision angular contact ball bearings
- All slideways and ballscrews fully oiled by an automatic continuous lubrication system to minimize wear on slideways and ballscrews
- Longitudinal hydraulic transverse with constant speed function or manual speed handle. Table rides on double V slideways coated with “TURCITE-B” for maximum stability
- Cross traverse travel powered by DC servo motor and ballscrew, allows step feed and continuous infeed grinding.
- Vertical positioning by precision ballscrew
- Pre-set hydraulic table speed control allows operator to pre-set table speed rate and maintain the same speed rate every time the hydraulic table is engaged

ASDIII Series Operation Panel

Delta PLC Digital Control features a 7.2" color touch screen and is equipped with the exclusive EQUIPTOP picture mode working system, easy to learn and operate.

- Frequency Inverter (Optional)
- 7.2" Touch Color Screen
- Chuck Control (Optional)

Starting Picture
Grinder Condition Input
Alarm Message
Machine I / O Monitoring
System Data
Grinding Size Input

Coolant System with Auto Paper Feeding Device and Magnetic Separator
<table>
<thead>
<tr>
<th>Specifications</th>
<th>CSG2448ASDlII</th>
<th>CSG2460ASDlII</th>
<th>CSG2480ASDlII</th>
<th>CSG3260ASDlII</th>
<th>CSG3280ASDlII</th>
<th>CSG32120ASDlII</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Table Size</strong></td>
<td>24&quot; x 48&quot;</td>
<td>24&quot; x 60&quot;</td>
<td>24&quot; x 80&quot;</td>
<td>32&quot; x 60&quot;</td>
<td>32&quot; x 80&quot;</td>
<td>32&quot; x 120&quot;</td>
</tr>
<tr>
<td></td>
<td>(610 x 1220mm)</td>
<td>(610 x 1524mm)</td>
<td>(610 x 2060mm)</td>
<td>(810 x 1550mm)</td>
<td>(810 x 2050mm)</td>
<td>(810 x 3050mm)</td>
</tr>
<tr>
<td><strong>Max. grinding length (longitudinal)</strong></td>
<td>49.6&quot; (1260mm)</td>
<td>61.5&quot; (1560mm)</td>
<td>81&quot; (2060mm)</td>
<td>81&quot; (2050mm)</td>
<td>120&quot; (3050mm)</td>
<td></td>
</tr>
<tr>
<td><strong>Max. grinding width (crosswise)</strong></td>
<td>24&quot; (610mm)</td>
<td>24&quot; (610mm)</td>
<td>24&quot; (610mm)</td>
<td>32&quot; (810mm)</td>
<td>32&quot; (810mm)</td>
<td>32&quot; (810mm)</td>
</tr>
<tr>
<td><strong>Max. distance from table surface to spindle centerline</strong></td>
<td>Standard</td>
<td>Optional</td>
<td>Standard</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Standard grinding wheel</strong></td>
<td>23.6&quot; x 47.2&quot;</td>
<td>23.6&quot; x 59.2pc.</td>
<td>23.6&quot; x 79.2pc.</td>
<td>31.5&quot; x 59.2pc.</td>
<td>31.5&quot; x 79.2pc.</td>
<td>31.5&quot; x 118.3pc.</td>
</tr>
<tr>
<td><strong>Hydraulic motor (power rating)</strong></td>
<td>1750</td>
<td>1750</td>
<td>1750</td>
<td>1750</td>
<td>1750</td>
<td>1750</td>
</tr>
<tr>
<td><strong>Rapid travel, approx.</strong></td>
<td>18&quot; (460mm/min.)</td>
<td>18&quot; (460mm/min.)</td>
<td>18&quot; (460mm/min.)</td>
<td>18&quot; (460mm/min.)</td>
<td>18&quot; (460mm/min.)</td>
<td>18&quot; (460mm/min.)</td>
</tr>
<tr>
<td><strong>Slow travel, approx.</strong></td>
<td>0.25&quot; (6mm/min.)</td>
<td>0.25&quot; (6mm/min.)</td>
<td>0.25&quot; (6mm/min.)</td>
<td>0.25&quot; (6mm/min.)</td>
<td>0.25&quot; (6mm/min.)</td>
<td>0.25&quot; (6mm/min.)</td>
</tr>
<tr>
<td><strong>Handwheel per revolution</strong></td>
<td>0.004&quot; (0.1mm)</td>
<td>0.004&quot; (0.1mm)</td>
<td>0.004&quot; (0.1mm)</td>
<td>0.004&quot; (0.1mm)</td>
<td>0.004&quot; (0.1mm)</td>
<td>0.004&quot; (0.1mm)</td>
</tr>
<tr>
<td><strong>Wheelhead vertical infeed</strong></td>
<td>0.05&quot; (1mm)</td>
<td>0.05&quot; (1mm)</td>
<td>0.05&quot; (1mm)</td>
<td>0.05&quot; (1mm)</td>
<td>0.05&quot; (1mm)</td>
<td>0.05&quot; (1mm)</td>
</tr>
<tr>
<td><strong>Auto constant feeding speed</strong></td>
<td>1&quot; (25mm/min.)</td>
<td>1&quot; (25mm/min.)</td>
<td>1&quot; (25mm/min.)</td>
<td>1&quot; (25mm/min.)</td>
<td>1&quot; (25mm/min.)</td>
<td>1&quot; (25mm/min.)</td>
</tr>
<tr>
<td><strong>Max. auto transverse travel</strong></td>
<td>26&quot; (660mm)</td>
<td>26&quot; (660mm)</td>
<td>26&quot; (660mm)</td>
<td>33.8&quot; (860mm)</td>
<td>33.8&quot; (860mm)</td>
<td>33.8&quot; (860mm)</td>
</tr>
<tr>
<td><strong>Max. manual transverse travel</strong></td>
<td>27&quot; (690mm)</td>
<td>27&quot; (690mm)</td>
<td>27&quot; (690mm)</td>
<td>34.8&quot; (885mm)</td>
<td>34.8&quot; (885mm)</td>
<td>34.8&quot; (885mm)</td>
</tr>
<tr>
<td><strong>Handwheel per graduation</strong></td>
<td>0.00004&quot; (.001mm)</td>
<td>0.00004&quot; (.001mm)</td>
<td>0.00004&quot; (.001mm)</td>
<td>0.00004&quot; (.001mm)</td>
<td>0.00004&quot; (.001mm)</td>
<td>0.00004&quot; (.001mm)</td>
</tr>
<tr>
<td><strong>Grinding spindle drive</strong></td>
<td>10 Hp (7.5kw)</td>
<td>10 Hp (7.5kw)</td>
<td>10 Hp (7.5kw)</td>
<td>15 Hp (10kw)</td>
<td>15 Hp (10kw)</td>
<td>15 Hp (10kw)</td>
</tr>
<tr>
<td><strong>Diameter</strong></td>
<td>16&quot; (400mm)</td>
<td>16&quot; (405mm)</td>
<td>16&quot; (405mm)</td>
<td>16&quot; (405mm)</td>
<td>16&quot; (405mm)</td>
<td>16&quot; (405mm)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>2&quot; (50mm)</td>
<td>2&quot; (50mm)</td>
<td>2&quot; (50mm)</td>
<td>2&quot; (50mm)</td>
<td>2&quot; (50mm)</td>
<td>2&quot; (50mm)</td>
</tr>
<tr>
<td><strong>Bore</strong></td>
<td>5&quot; (127mm)</td>
<td>5&quot; (127mm)</td>
<td>5&quot; (127mm)</td>
<td>5&quot; (127mm)</td>
<td>5&quot; (127mm)</td>
<td>5&quot; (127mm)</td>
</tr>
<tr>
<td><strong>Hydraulic motor (power rating)</strong></td>
<td>5Hp/6P</td>
<td>5Hp/6P</td>
<td>5Hp/6P</td>
<td>5Hp/6P</td>
<td>7.5Hp/6P</td>
<td>7.5Hp/6P</td>
</tr>
<tr>
<td><strong>Crossfeed motor (power rating)</strong></td>
<td>DC400W</td>
<td>DC400W</td>
<td>DC400W</td>
<td>DC400W</td>
<td>DC400W</td>
<td>DC400W</td>
</tr>
<tr>
<td><strong>Elevating motor (power rating)</strong></td>
<td>DC700W</td>
<td>DC700W</td>
<td>DC700W</td>
<td>DC700W</td>
<td>DC700W</td>
<td>DC700W</td>
</tr>
<tr>
<td><strong>Total space required (LxWxH)</strong></td>
<td>170&quot;x138&quot;x93&quot;</td>
<td>177&quot;x138&quot;x93&quot;</td>
<td>223&quot;x138&quot;x93&quot;</td>
<td>193&quot;x147&quot;x93&quot;</td>
<td>211&quot;x138&quot;x93&quot;</td>
<td>298&quot;x146&quot;x93&quot;</td>
</tr>
<tr>
<td><strong>Net weight (lbs)</strong></td>
<td>25,300 (11500kg)</td>
<td>27,720 (12600kg)</td>
<td>29,700 (13500kg)</td>
<td>29,700 (13500kg)</td>
<td>33,000 (15000kg)</td>
<td>37,400 (17000kg)</td>
</tr>
<tr>
<td><strong>Gross weight (lbs)</strong></td>
<td>27,500 (12500kg)</td>
<td>31,900 (14500kg)</td>
<td>33,000 (15000kg)</td>
<td>33,000 (15000kg)</td>
<td>36,300 (16500kg)</td>
<td>41,800 (19000kg)</td>
</tr>
</tbody>
</table>

*Machine design, control, and specifications are subject to change without notice.*
Clausing Grinder Optional Accessories

- Permanent Magnetic Chuck
- Electro Magnetic Chuck
- Inclined Permanent Magnetic Chuck
- Chuck Control with Demagnetizer
- Coolant System
- Coolant System with Magnetic Separator
- Dust Collector
- Coolant and Dust Unit
- Coolant System with Manual Paper Feeding
- Auto Paper Feeding Device with Magnetic Separator
- Splash Guard
- Full Guarding Splash Guard (10/12/16 Series)
- Manual Parallel Dressing Attachment
- Electric Parallel Dressing Attachment
- Adjustable Speed Rotary Magnetic Chuck

Clausing Grinder Standard Accessories

- Diamond Dresser
- Auto Lubrication System
- Wheel Flange
- Chuck control on all models except on 618 & 818 manual and 2A/3A hydraulic models
- Grinding Wheel
- Balancing Arbor
- Wheel Extracting Screw & Nut
- Leveling Screws with Blocks
- Touch-up Paint
- Tool Box and Tools
Dynamic Balancer
Punch Former
Digital Readout
Spare Wheel Flange

Halogen Work Light
Balancing Stand (Double Line)
Roller Type Balancing Stand
Micro Crossfeed for 616/818 Series

Micro Crossfeed for 10/12/16 Series
Mirco Down Feed for 10/12/16 Series Standard on 1020 and Larger 2A & 3A Models
Manual Pulse Generator Standard ASDIII Series
Precision Vice

Frequency Changer
Swivel Wheel Guard
Concave/Convex Forming Dresser
Clausing Precision Drills
- Clausing Belt-drive Drills
- Clausing Geared-head Drills
- Clausing Radial Drills

Clausing Precision Mills
- Clausing Bed Mills
- Clausing CNC Bed Mills
- Clausing Knee Mills
- Clausing EVS Knee Mills
- Clausing Universal Mills

Clausing Precision Lathes
- Clausing/Colchester Geared Head Lathes
- Clausing/Colchester Professional V.S. Lathes
- Clausing MA/MAV Series Lathes
- Clausing Large Swing Standard vLathes
- Clausing Large Swing CNC Lathes

Clausing Precision Grinders
- Clausing Manual Grinders
- Clausing 2 Axes Hydraulic Grinders
- Clausing 3 Axes Hydraulic Grinders
- Clausing ASDIII Automatic Grinders

Clausing Precision Cutting Machines
- Clausing/Kalamazoo Horizontal Bandsaws
- Clausing/Kalamazoo Vertical Bandsaws
- Clausing/Kalamazoo Tilt Frame Miter Bandsaws
- Clausing/Kalamazoo Cold Saws

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info@clausing-industrial.com

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