* INCREASED BELT LIFE – Lower Consumable Costs

* VERSATILE – Can Grind Flat & Curved Surfaces

* EFFICIENT – 10X Conventional Production Rates
**RGS PLUNGE - RISE & FALL GRINDER SERIES**

**Specifications:**

<table>
<thead>
<tr>
<th></th>
<th>RGS 430</th>
<th>RGS 450</th>
<th>RGS 460</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong> Drive Motor</td>
<td>US HP 30</td>
<td>Metric 22 kW</td>
<td>US HP 50</td>
</tr>
<tr>
<td><strong>B</strong> Hydraulic Motor</td>
<td>US HP 3</td>
<td>Metric 2.2 kW</td>
<td>US HP 3</td>
</tr>
<tr>
<td><strong>C</strong> Overall Width</td>
<td>US in 50</td>
<td>Metric 1270 mm</td>
<td>US in 57</td>
</tr>
<tr>
<td><strong>D</strong> Overall Depth</td>
<td>US in 70</td>
<td>Metric 1778 mm</td>
<td>US in 70</td>
</tr>
<tr>
<td><strong>E</strong> Overall Height</td>
<td>US in 82</td>
<td>Metric 2083 mm</td>
<td>US in 82</td>
</tr>
<tr>
<td><strong>F</strong> Spindle Diameter</td>
<td>US in 2 9/16</td>
<td>Metric 65mm</td>
<td>US in 2 9/16</td>
</tr>
<tr>
<td><strong>G</strong> Contact Wheel Diameter</td>
<td>US in 20</td>
<td>Metric 508 mm</td>
<td>US in 20</td>
</tr>
<tr>
<td><strong>H</strong> Belt Width</td>
<td>US in 4</td>
<td>Metric 102 mm</td>
<td>US in 6</td>
</tr>
<tr>
<td><strong>I</strong> Belt Length</td>
<td>US in 132</td>
<td>Metric 3350 mm</td>
<td>US in 132</td>
</tr>
<tr>
<td><strong>J</strong> Feed Table Tee Slot</td>
<td>US in 1/2</td>
<td>Metric 12 mm</td>
<td>US in 1/2</td>
</tr>
<tr>
<td><strong>K</strong> Machine Weight (approx)</td>
<td>US lbs 4800</td>
<td>Metric kg 2182</td>
<td>US lbs 5240</td>
</tr>
<tr>
<td><strong>L</strong> Max. ingate removal area</td>
<td>US in² 2</td>
<td>Metric mm² 1290</td>
<td>US in² 3.3</td>
</tr>
</tbody>
</table>

**Design Features:**

- **Operator Interface Panel**
  - displays operating modes, machine alarms, and maintenance alarms
  - allows for digital input of operating parameters including:
    - **Grind Rate**
      - adjustable feed table speed for optimum grind rate
    - **Grind Depth**
      - control the distance from the contact wheel that the machine slows to Grind Rate
    - **Belt Oscillation**
      - control the belt oscillation distance for full use of the abrasive belt surface
    - **Incremental Feed**
      - for removal of large gates
      - allows machine to make small cuts instead of straight plunge to depth
    - **Spark Out Cycles**
      - determines the amount of times the table does a rise an fall motion from 0 - 5
      - this feature allows for removal of burnishing on the casting
    - **Cycle Counter**
      - programmable for number of parts per cycle to give an accurate count of parts finished

- **Three Modes of Operation**
  - manual for quick setup
  - automatic for flat gates
  - automatic - circular grind for curved gates

- **Electronic Belt Tracking Control**
  - selector switch control of belt tracking for ease in setup

- **Hydraulic Belt Tensioning and Spindle Brake**
  - machine is fully hydraulic, no pneumatic supply is needed, add power, oil, and go!

- **Tee Slotted Feed Table**
  - allows for rapid changeover of grinding fixtures

- **Ammeter**
  - indicates overloading or belt wear

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