ELECTRICAL

- **1580 Motor**: 7.5 HP, 208/230 volts, 60Hz, 3 phase AC, 27.3 amps (service size: 45 amps)
- **1370 Motor**: 5 HP, 208/230 volts, 60Hz, 3 phase AC, 20 amps (service size: 30 amps)
- **1160 Motor**: 5 HP, 208/230 volts, 60Hz, 3 phase AC, 20 amps (service size: 30 amps)
- **860 Motor**: 5 HP, 208/230 volts, 60Hz, 3 phase AC, 20 amps (service size: 30 amps)
- **780 Motor**: 5 HP, 208/230 volts, 60Hz, 3 phase AC, 20 amps (service size: 30 amps)
- **680 Motor**: 5 HP, 208/230 volts, 60Hz, 3 phase AC, 20 amps (service size: 30 amps)
iCutter Series
HEAVY-DUTY
PAPER CUTTERS

Mechanical drive paper cutters from Challenge Machinery provide precise, trouble-free operation at an incredible value.

BACKGAUGE PRECISION
The linear guide rail and A/C driven ball-screw deliver smooth, effortless motion. The precise backgauge controls provide accuracy within +/- 0.002”.

ADVANCED CONTROL SYSTEM
The large 15” color touchscreen provides a visual display of backgauge location and proper cut sequence alignment and positioning. The advanced user interface includes machine diagnostics, job storage and retrieval capabilities, error detection and maintenance reminders.

STRONG FOUNDATION
The heavy duty construction of the cast iron and steel frame provides a solid foundation for consistent cut accuracy. The rugged design of the mechanical drive system is ideal for high volume cutting applications where reliability is critical.

KNIFE CHANGING SIMPLICITY
The mechanical knife removal system is designed for efficiency and ease of use. One operator can safely replace the blade in ten minutes.

SAFETY
Operator safety is of the utmost importance and the iCutter comes standard with key features such as two-hand activation, timed and non-repeating cut buttons, monitored knife safety latch, infrared safety beams, and overload shear bolt.

SUMMARY OF FEATURES
• Manual/semi-automatic and automatic operation modes
• AC servomotors, ball screw and linear guide
• Adjustable clamping pressure
• Table light/optical cut line indicator
• Plated, cast iron air table
• Easy knife change system
• Electro-magnetic clutch and brake system
• Double end pull knife drive system (single end pull on 860 and smaller)
• Shear bolt for cutting system protection
• Two hand cut control with non-repeat safety system
• Infrared safety light curtain
• Closed rear table
• CE listed

The Challenge iCutter series has an optional module that integrates with the HP Indigo workflow package for fully automated cutting jobs. After scanning the job ticket, the iCutter displays the optimal cutting sequence automatically. As an HP SmartStream Partner, labor efficiency can be increased by as much as 170%.
Mechanical drive paper cutters from Challenge Machinery provide precise, trouble-free operation at an incredible value.

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![High-speed backgauge](image)

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![Heavy-duty frame and knife bar design](image)

**KNIFE CHANGING SIMPLICITY**
The mechanical knife removal system is designed for efficiency and ease of use. One operator can safely replace the blade in ten minutes.

![Easy design for knife changes](image)

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### SPECIFICATIONS

<table>
<thead>
<tr>
<th>CUTTING</th>
<th>1580</th>
<th>1370</th>
<th>1160</th>
<th>860</th>
<th>780</th>
<th>680</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum cutting width ((a))</td>
<td>62&quot;/1580 mm</td>
<td>53.9&quot;/1370 mm</td>
<td>45.7&quot;/1160 mm</td>
<td>33.9&quot;/860 mm</td>
<td>30.7&quot;/780 mm</td>
<td>26.7&quot;/680 mm</td>
</tr>
<tr>
<td>Maximum clamp opening ((b))</td>
<td>1.5&quot;/39 mm</td>
<td>1.2&quot;/30 mm</td>
<td>1.2&quot;/30 mm</td>
<td>1.2&quot;/30 mm</td>
<td>1.2&quot;/30 mm</td>
<td>1.2&quot;/30 mm</td>
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<tr>
<td>Feed depth ((c))</td>
<td>1.5&quot;/38 mm</td>
<td>1.2&quot;/30 mm</td>
<td>1.2&quot;/30 mm</td>
<td>1.2&quot;/30 mm</td>
<td>1.2&quot;/30 mm</td>
<td>1.2&quot;/30 mm</td>
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<tr>
<td>Cutting speed ((d))</td>
<td>48</td>
<td>48</td>
<td>48</td>
<td>45</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Drive system</td>
<td>double end pull</td>
<td>double end pull</td>
<td>double end pull</td>
<td>single end pull</td>
<td>single end pull</td>
<td>single end pull</td>
</tr>
<tr>
<td>Clamping pressure</td>
<td>1440-9192 lbs/6500-41,000 kg</td>
<td>1440-9192 lbs/6500-41,000 kg</td>
<td>1440-9192 lbs/6500-41,000 kg</td>
<td>1440-6313 lbs/3000-2800 kg</td>
<td>1440-6313 lbs/3000-2800 kg</td>
<td>1440-6313 lbs/3000-2800 kg</td>
</tr>
<tr>
<td>Side gauge speed ((e))</td>
<td>7.9 in/sec</td>
<td>7.9 in/sec</td>
<td>7.9 in/sec</td>
<td>7.9 in/sec</td>
<td>7.9 in/sec</td>
<td>7.9 in/sec</td>
</tr>
<tr>
<td>Minimum cut (b)/no clamp</td>
<td>2.95&quot;/75 mm</td>
<td>2.95&quot;/75 mm</td>
<td>2.95&quot;/75 mm</td>
<td>2.95&quot;/75 mm</td>
<td>2.95&quot;/75 mm</td>
<td>2.95&quot;/75 mm</td>
</tr>
<tr>
<td>Minimum cut (b)/no clamp</td>
<td>1.5/38 mm</td>
<td>1.2/30 mm</td>
<td>1.2/30 mm</td>
<td>1.2/30 mm</td>
<td>1.2/30 mm</td>
<td>1.2/30 mm</td>
</tr>
<tr>
<td>Overall length ((f))</td>
<td>126.4/3210 mm</td>
<td>112.8/2860 mm</td>
<td>104.5/2655 mm</td>
<td>80/2035 mm</td>
<td>75.6/1920 mm</td>
<td>71.7/1820 mm</td>
</tr>
<tr>
<td>Overall width ((g))</td>
<td>123.6/3140 mm</td>
<td>103.5/2630 mm</td>
<td>95.3/2420 mm</td>
<td>78.4/1990 mm</td>
<td>64.6/1640 mm</td>
<td>60.7/1540 mm</td>
</tr>
<tr>
<td>Overall height ((h))</td>
<td>67.7/1720 mm</td>
<td>65.4/1660 mm</td>
<td>65.4/1660 mm</td>
<td>60.4/1535 mm</td>
<td>59.1/1500 mm</td>
<td>59.1/1500 mm</td>
</tr>
<tr>
<td>Net weight ((i))</td>
<td>13,118 lbs/5950 kg</td>
<td>11,354 lbs/5150 kg</td>
<td>9,480 lbs/4300 kg</td>
<td>5,424 lbs/2440 kg</td>
<td>4,475 lbs/2030 kg</td>
<td>4,189 lbs/1900 kg</td>
</tr>
<tr>
<td>Shipping weight ((j))</td>
<td>14,936 lbs/6530 kg</td>
<td>12,545 lbs/5690 kg</td>
<td>10,351 lbs/4660 kg</td>
<td>6,261 lbs/2840 kg</td>
<td>5,291 lbs/2400 kg</td>
<td>4,916 lbs/2230 kg</td>
</tr>
</tbody>
</table>

### DIMENSIONS

<table>
<thead>
<tr>
<th>1580</th>
<th>1370</th>
<th>1160</th>
<th>860</th>
<th>780</th>
<th>680</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table space in front of knife ((k))</td>
<td>28.3/720 mm</td>
<td>28.3/720 mm</td>
<td>28.3/720 mm</td>
<td>25.4/635 mm</td>
<td>25.6/650 mm</td>
</tr>
<tr>
<td>Table height ((l))</td>
<td>35.4/900 mm</td>
<td>35.4/900 mm</td>
<td>35.4/900 mm</td>
<td>34/865 mm</td>
<td>35.4/900 mm</td>
</tr>
<tr>
<td>Overall length ((m))</td>
<td>126.4/3210 mm</td>
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<td>Overall height ((o))</td>
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</table>

\(a\) = Maximum cutting width (in mm)
\(b\) = Maximum clamp opening (in mm)
\(c\) = Feed depth (in mm)
\(d\) = Cutting speed (in mm/sec)
\(e\) = Minimum cut with or without clamp (in mm)
\(f\) = Overall length (in mm)
\(g\) = Overall width (in mm)
\(h\) = Overall height (in mm)
\(i\) = Net weight (approx) (lbs/kg)
\(j\) = Shipping weight (approx) (lbs/kg)

**THE CHALLENGE MACHINERY COMPANY**
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