ESCO’s DPW (short for Dual ProfileMatic Wire) employs both vertical and horizontal cutting wire heads wrapping the functionality of two machines into one robust package.

The DPW contour wire saw may be used to process both flexible PU foams and rigid PU foams such as Polyisocyanurate (PIR).

ESCO’s DPW profile wire saw can create complex finished parts by passing the foam from one cutting head to another. In addition to high-speed dual-axis contour cutting, the DPW can be utilized as a blocking saw to prepare buns for final processing.

### Machine Sizes

<table>
<thead>
<tr>
<th></th>
<th>DPW 36-55</th>
<th>DPW 50-88</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting Height</td>
<td>36&quot; [914 MM]</td>
<td>50&quot; [1270 MM]</td>
</tr>
<tr>
<td>Cutting Width</td>
<td>55&quot; [1397 MM]</td>
<td>88&quot; [2235 MM]</td>
</tr>
<tr>
<td>Max Cutting Speed</td>
<td>70FT/MIN [21M/MIN]</td>
<td>70FT/MIN [21M/MIN]</td>
</tr>
</tbody>
</table>

### Floor Space Required

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Width</td>
<td>220&quot; [5588 MM]</td>
<td>290&quot; [7366 MM]</td>
</tr>
<tr>
<td>Overall Length</td>
<td>330&quot; [8382 MM]</td>
<td>330&quot; [8382 MM]</td>
</tr>
<tr>
<td>Maximum Height</td>
<td>125&quot; [3175 MM]</td>
<td>150&quot; [3810 MM]</td>
</tr>
</tbody>
</table>

**Shipping Weight:** 7800-8800LBS [3538-3992KG] [Varies by model]

---

**Picture:**

*DPW 36-55 Dual Axis CNC Abrasive Wire Contour*
**COMMON APPLICATIONS**

- **BLOCK PREPARATION** - Since the DPW contour wire saw can process all six sides of the block of foam the DPW may be used as a blocking saw especially for rigid PU and PIR that have a very hard outer skin.

- **SHEETING** - Many times after block preparation is complete fabricators will then use the DPW dual wire contour saw for sheeting the clean block into sheets. Since the cutting wire can process in any directions sheeting is an efficient process on the DPW.

- **PROFILE CUTTING** - Processing flexible PU block for furniture or seating applications. With the horizontal cutting head the machine will cut the profile pattern of the cushion. Once complete the machine passes the block to the vertical cutting head to cut the profile cut block into sheet of the desired thickness. For more complex cushions more details can be made with the vertical cutting instead of making straight cuts.

- **PREPROCESSING** - Rough machining of foam and other technical materials is another use of the DPW. The idea with this cutting strategy is to use the DPW to oversize the desired rough geometry of the part profile. The DPW wire saw can process raw materials with higher yields because the rough part geometry can be nested in high yield layouts within the block versus traditional methods where the block is cut into a series of smaller blocks then the parts are machine to final specification. Rough machining with the DPW can also save labor, machining time and overall throughput (more parts/unit of time). Since the rough geometry has been completed on the DPW the total machining time required from machining centers is far less than starting from a small block.

**OPTIONAL FEATURES**

- ESCODRAW PRO + advanced nesting software
- Air-conditioned PC terminal
- Dust collection system

**POWER REQUIREMENT SPECIFICATIONS**

- 380-500VAC 3-phase 50-60Hz
- Clean, dry compressed air

**STANDARD FEATURES**

- PC based operator terminal
- Industrial handheld remote control
- Air-conditioned main control panel
- Siemens CNC motion controls
- Powered adjustable upper blade guide assembly
- ESCODRAW standard

**OPERATOR CONTROL FEATURES**

- PLC control with PC interface
- Controls are mounted on a freestanding pedestal

**DPW**

WHERE IMAGINATION TAKES SHAPE