7 reasons plasma beats oxyfuel

Plasma is rapidly becoming the cutting technology of choice.

Created by electrically charging a gas, plasma made from compressed air can cut metals up to 56 mm (2-1/4") thick. Powermax® systems are easy to use and portable, with faster cut speeds than oxyfuel.

7 reasons plasma beats oxyfuel

1. Better cut quality
   Plasma cuts have less dross, less warping, and a smaller heat-affected zone.

2. Cuts more parts faster
   With significantly faster cut speeds, plasma outperforms oxyfuel even before you consider oxyfuel’s preheat time and secondary operations.

3. Parts cost less
   With operating costs spread over more parts per hour, and with less time spent on secondary operations, you have a lower cost per part.

4. More profitable
   Lower operating costs and greater productivity result in more profit for you.

5. Easier to use
   No gases to regulate, no flame chemistry to master. And there’s no standoff to maintain. Hypertherm torches are designed for dragging the torch across the plate.

6. Increased flexibility
   Cut mild steel, aluminum, stainless, copper, and most other metals. Cut by hand, with a track or pipe cutter, or on an X-Y table. Cut stacked metal, metal grate, or even rusty or painted pieces.

7. Uses only air for improved safety
   No flammable gases required. With Powermax systems, compressed air is the only gas you need. The most popular fuel gas for oxyfuel is acetylene, a highly flammable and unstable gas.
Which Powermax® system is right for you?

Whatever your application – cutting by hand or on a table, with a pipe cutter or a track cutter, thick metal or thin – there’s a Powermax system that’s right for you.

Learn more at www.PlasmaVersusOxyfuel.com

<table>
<thead>
<tr>
<th>Powermax30 XP</th>
<th>Powermax30 AIR</th>
<th>Powermax45 XP</th>
<th>Powermax65</th>
<th>Powermax85</th>
<th>Powermax105</th>
<th>Powermax125</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended</td>
<td>10 mm (3/8&quot;)</td>
<td>8 mm (5/16&quot;)</td>
<td>16 mm (5/8&quot;)</td>
<td>20 mm (3/4&quot;)</td>
<td>25 mm (1&quot;)</td>
<td>32 mm (1-1/4&quot;)</td>
</tr>
<tr>
<td>Severance</td>
<td>16 mm (5/8&quot;)</td>
<td>16 mm (5/8&quot;)</td>
<td>29 mm (1-1/8&quot;)</td>
<td>32 mm (1-1/4&quot;)</td>
<td>38 mm (1-1/2&quot;)</td>
<td>50 mm (2&quot;)</td>
</tr>
<tr>
<td>Gas flow rate/pressure</td>
<td>113 l/min (240 scfh, 4 scfm) @ 5.5 bar (80 psi)</td>
<td>Not applicable</td>
<td>186 l/min (400 scfh, 6.6 scfm) @ 5.9 bar (85 psi)</td>
<td>189 l/min (400 scfh, 6.7 scfm) @ 5.9 bar (85 psi)</td>
<td>189 l/min (400 scfh, 6.7 scfm) @ 5.9 bar (85 psi)</td>
<td>217 l/min (460 scfh, 7.7 scfm) @ 5.9 bar (85 psi)</td>
</tr>
<tr>
<td>Duty cycle</td>
<td>35%</td>
<td>35% 240 V 20% 120 V</td>
<td>50%</td>
<td>50%</td>
<td>60%</td>
<td>80%</td>
</tr>
<tr>
<td>Engine drive rating (full output)</td>
<td>6.8 kVA or 5.5 kW</td>
<td>6.8 kVA or 5.5 kW</td>
<td>12.5 kVA or 10 kW</td>
<td>20.1 kVA or 15 kW</td>
<td>26.8 kVA or 20 kW</td>
<td>40.2 kVA or 30 kW</td>
</tr>
<tr>
<td>Weight with torch</td>
<td>CSA 9.7 kg (21.4 lbs.) CE/CCC 9.5 kg (21 lbs.)</td>
<td>CSA 13.4 kg (29.8 lbs.) CE 13.4 kg (29.8 lbs.)</td>
<td>CSA 14.5 kg (32 lbs.) CE 14.5 kg (32 lbs.)</td>
<td>CSA 29 kg (64 lbs.) CE 26 kg (57 lbs.)</td>
<td>CSA 32 kg (71 lbs.) CE 28 kg (62 lbs.)</td>
<td>CSA 45 kg (100 lbs.) CE 45 kg (100 lbs.) (230-400 V)</td>
</tr>
</tbody>
</table>

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One of Hypertherm’s long-standing core values is a focus on minimizing our impact on the environment. Doing so is critical to our, and our customers’ success. We are always striving to become better environmental stewards; it is a process we care deeply about.

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