

Powermax product line comparison



To choose the Powermax system that will best suit your long term needs, please consider the following questions.

- What thickness of metal will you be cutting?
- Will the cutting or gouging be done by a handheld torch or with an automated machine?
- What electrical service do you use?
- Will the plasma system be powered by an engine drive generator?
- What is your compressed gas source?

- Plasma benefits
- Powermax line comparison
- Powermax advantages
- Uses of plasma
- Explore products

	Powermax30 AIR	Powermax30 XP	Powermax45	Powermax65	Powermax85	Powermax105	Powermax125
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Handheld cut capacity	Recommended 5/16" (8 mm) Severance 5/8" (16 mm)	Recommended 3/8" (10 mm) Severance 5/8" (16 mm)	Recommended 1/2" (12 mm) Severance 1" (25 mm)	Recommended 3/4" (20 mm) Severance 1 1/4" (32 mm)	Recommended 1" (25 mm) Severance 1 1/2" (38 mm)	Recommended 1 1/4" (32 mm) Severance 1 3/4" (44 mm)	Recommended 1 1/2" (38 mm) Severance 2 1/4" (55 mm)
Mechanized pierce capacity ¹	Not applicable	Not applicable	1/2" (12 mm)	5/8" (16 mm)	3/4" (20 mm)	7/8" (22 mm)	1" (25 mm)
Input voltage at 50/60 Hz	CSA 120 – 240 V, 1-PH CE 120 – 240 V	CSA 120 – 240 V, 1-PH CE 120 – 240 V, 1-PH CCC 120 – 240 V, 1-PH	CSA 200 – 240 V, 1-PH CSA 480 V, 3-PH CE 230 V, 1-PH CE 400 V, 3-PH	CSA 200 – 480 V, 1-PH CSA 200 – 600 V, 3-PH CE 400 V, 3-PH	CSA 200 – 480 V, 1-PH CSA 200 – 600 V, 1/3-PH CE 400 V, 3-PH	CSA 200 – 600 V, 3-PH CE 230 – 400 V, 3-PH CE 400 V, 3-PH CCC 380 V, 3-PH	CSA 480 V, 3-PH CSA 600 V, 3-PH CE 400 V, 3-PH CCC 380 V, 3-PH
Duty cycle at full output ²	CSA 35%, 240 V, 1-PH CE 35%, 240 V, 1-PH	CSA 35%, 240 V, 1-PH CE 35%, 240 V, 1-PH CCC 35%, 240 V, 1-PH	CSA 50%, 200 – 240 V, 1-PH CSA 50% 480 V, 3-PH CE 50% 230 V, 1-PH CE 50% 380/400 V, 3-PH	CSA 50%, 230 – 600 V, 1/3-PH CE 50% 380/400 V, 3-PH	CSA 60%, 230 – 600 V, 3-PH CE 60%, 380/400 V, 3-PH	CSA 80% 480 – 600 V, 3-PH CE 80% 400 V, 3-PH CCC 80% 380 V, 3-PH	CSA 100%, 480/600 V, 3-PH CE 100%, 400 V, 3-PH CCC 100%, 380 V, 3-PH
Gas	Internal compressed air	Air or nitrogen	Air or nitrogen	Air or nitrogen	Air or nitrogen	Air or nitrogen	Air or nitrogen
Motor generator requirements for full	5.5 kW	5.5 kW	8 kW	15 kW	20 kW	30 kW	40 kW

arc stretch at full output							
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1 with automatic torch height control

2 additional duty cycles at other voltages are available in product specification tables.

CSA models are for use in the Americas and Asia, except China.

CE models are for use in countries that require CE or GOST marks.

CCC models are for use in China.