






Powermax plasma cutter comparison

There's a portable Powermax® system that's right for just about any cutting job you can throw at it. To make the best choice, compare them.

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Powermax45 SYNC® plasma cutter	Powermax65 SYNC® plasma cutter	Powermax85 SYNC® plasma cutter	Powermax105 SYNC® plasma cutter	Powermax125® plasma cutter
Versatile, professional-grade plasma cutter offers increased cut capacity – up to 16 mm (5/8") metal – as well as enhanced gouging and marking capabilities.	Professional-grade 20 mm (3/4") plasma cutter provides automated process set-up and a revolutionary cartridge consumable platform for handheld and mechanized cutting and gouging.	Professional-grade 25 mm (1") plasma cutter provides automated process set-up and a revolutionary cartridge consumable platform for handheld and mechanized cutting and gouging.	Professional-grade 32 mm (1-1/4") plasma cutter provides automated process set-up and a revolutionary cartridge consumable platform for handheld and mechanized cutting and gouging.	Portable, heavy-duty 38 mm (1-1/2") plasma cutter maximizes uptime and productivity in handheld and mechanized cutting and gouging operations.

Key specifications

Supported applications	Drag cutting Fine feature cutting Max control gouging Marking Mechanized cutting Max removal gouging	Drag cutting Extended reach cutting and gouging Fine feature cutting Flush cutting Max control gouging Max removal gouging Mechanized cutting	Drag cutting Extended reach cutting and gouging Fine feature cutting Flush cutting Max control gouging Max removal gouging Mechanized cutting	Drag cutting Extended reach cutting and gouging Fine feature cutting Flush cutting Max control gouging Max removal gouging Mechanized cutting	Drag cutting Fine feature cutting Flush cutting Max control gouging Max removal gouging Mechanized cutting
Cut processes	Plasma – conventional air	Plasma – conventional air	Plasma – conventional air	Plasma – conventional air	Plasma – conventional air
Output amperage range	10–45 A	20–65 A	25–85 A	30–105 A	30–125 A
Recommended cut capacity ⓘ	16 mm (5/8")	20 mm (3/4")	25 mm (1")	32 mm (1-1/4")	38 mm (1-1/2")
Severance cut capacity ⓘ	29 mm (1-1/8")	32 mm (1-1/4")	38 mm (1-1/2")	50 mm (2")	57 mm (2-1/4")
Mechanized pierce capacity	12 mm (1/2")	16 mm (5/8")	20 mm (3/4")	22 mm (7/8")	25 mm (1")
ISO 9013 cut range	5	5	5	5	5
Input voltage(s)	CSA 200–240 V, 1-PH, 50/60 Hz CSA 480 V, 3-PH, 50/60 Hz CE/CCC 230 V, 1-PH, 50/60 Hz CE/CCC 400 V, 3-PH, 50/60 Hz	CSA 200–480 V, 1-PH, 50/60 Hz CSA 200–600 V, 3-PH, 50/60 Hz CE/CCC 380–400 V, 3-PH, 50/60 Hz	CSA 200–480 V, 1-PH, 50/60 Hz CSA 200–600 V, 3-PH, 50/60 Hz CE/CCC 380–400 V, 3-PH, 50/60 Hz	CSA 200–600 V, 3-PH, 50/60 Hz CE 230–400 V, 3-PH, 50/60 Hz CE/CCC 380–400 V, 3-PH, 50/60 Hz	CSA 480 V, 3-PH, 50/60 Hz CSA 600 V, 3-PH, 50/60 Hz CE 400 V, 3-PH, 50/60 Hz CCC 380 V, 3-PH, 50/60 Hz
kW output	6.9	9	12.2	16.8	21.9
Duty cycle at max current*	50%	50%	60%	80%	100%
Process/shield gas options	Air, N ₂ , F5	Air, N ₂ , F5	Air, N ₂ , F5	Air, N ₂ , F5	Air, N ₂ , F5
Torch style options	Hand torches Machine torches Robotic torches Handheld Long torches	Hand torches Machine torches Robotic torches Handheld Long torches	Hand torches Machine torches Robotic torches Handheld Long torches	Hand torches Machine torches Robotic torches Handheld Long torches	Hand torches Machine torches Robotic torches Handheld Long torches
Product width	173 mm (6.8")	233 mm (9.2")	233 mm (9.2")	274 mm (10.8")	274 mm (10.8")
Product height	357 mm (14.1")	430 mm (17")	430 mm (17")	508 mm (20.0")	508 mm (20.0")
Product depth	442 mm (17.4")	483 mm (19")	483 mm (19")	592 mm (23.3")	592 mm (23.3")
Approximate weight without torch and leads	14 kg (31 lb.)	29 kg (61 lb.)**	32 kg (67 lb.)**	45.3 kg (95 lb.)**	41 kg (90 lb.)

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* @ 40° C (104° F)
** includes torch and lead

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.