

Powermax advantages

Productivity – Fast cut speeds, superior cut quality, little or no secondary operations and no pre-heating help you to do more in less time.

Ease of use – High portability, simple controls and good arc visibility make Powermax systems easy to operate. Any operator can quickly become skilled with a Powermax system.

Versatility – From the shop to the field, cutting or gouging stainless, mild steel or aluminum, you can leverage a Powermax system for many jobs.

Low operating cost – High productivity and long consumable life minimize operating costs.

Reliability – Smart design, plus intense testing during both product development and manufacturing, delivers industry-leading reliability.

Confidence – Hypertherm's singular focus on plasma, plus the proven performance and reliability of our global installed base, gives you confidence that you are buying the best.

Capacity ratings

There is no industry standard for rating plasma systems, so it is important to take care when comparing products from different manufacturers.

Handheld cut capacity

Recommended – The thickness of mild steel on which the system delivers good cut quality and speeds at or greater than 20 ipm (500 mm) per minute. Eighty percent or more of cutting should be at the recommended thickness.

Severance – The thickness of mild steel that can be reasonably severed at a minimum of 5 ipm (125 mm) but with poor cut quality. Cutting the severance thickness should be infrequent.

Mechanized pierce capacity

The thickness of mild steel that may be pierced with good cut quality and without excessive wear on the consumable parts. If edge starting the cut canacity is the same as bandhold canacity.

	Powermax30	Powermax45	
Handheld cut capacity - Minimum cut speed	1/4" (6 mm)	1/2" (12 mm)	
Recommended	at 20 ipm (500 mm/min)	at 20 ipm (500 mm/min)	
	3/8" (10 mm) at 10 ipm (250 mm/min)	3/4" (19 mm) at 10 ipm (250 mm/min)	
Severance	1/2" (12 mm)	1" (25 mm)	
30.0.4	at 5 ipm (125 mm/min)	at 5 ipm (125 mm/min)	
Mechanized pierce capacity			
Maximum	Not applicable	3/8" (10 mm)	
Gouge capacity Metal removed per hour	Not applicable	6.2 lbs (2.8 kg)	
depth x width ¹	Not applicable	.13" (3.3 mm) x .22" (5.5 mm)	
Output current	15 – 30 A	20 - 45 A	
Input voltage	CSA 120 - 230 V, 1-PH 50/60 Hz CE 120 - 230 V, 1-PH 50/60 Hz	CSA 200 – 240 V, 1-PH, 50-60 Hz CE 230 V, 1-PH, 50-60 Hz CE 400 V, 3-PH, 50-60 Hz	
Rated output voltage	83 VDC	132 VDC	
Input current	CSA 120 - 230 V, 1-PH: 26 - 13.5 A CE 120 - 230 V, 1-PH: 26 - 13.5 A	CSA 200/230 V, 1-PH, 34/28 A CE 230 V, 1-PH, 30 A 380/400 V, 3-PH, 10.5/10 A	
Duty cycle at full output ²	CSA 50%, 230 V 35%, 120 V CE 50%, 230 V 35%, 120 V	CSA 50% @ 45 A, 200 – 240 V, 1-PH 60% @ 41 A, 200 – 240 V, 1-PH 100% @ 32 A, 200 – 240 V, 1-PH CE 50% @ 45 A, 230 V, 1-PH 60% @ 41 A, 230 V, 1-PH 100% @ 32 A, 230 V, 1-PH CE 50% @ 45 A, 380/400 V, 3-PH 60% @ 41 A, 380/400 V, 3-PH	
Dimensions with handle depth x width x height	14.0 x 6.6 x 12.0" (356 x 168 x 305 mm)	16.75 x 6.75 x 13.7" (426 x 172 x 348 mm)	
Weight with torch	CSA 20 lbs (9 kg) CE 21 lbs (10 kg)	CSA 37 lbs (17 kg) CE 35 lbs (16 kg)	
Gas supply	Air or N ₂	Air or N ₂	
Recommended gas inlet flow rate/pressure	240 scfh, 4 scfm (113 l/min) @ 80 psi (5.5 bar)	Cutting: 360 scfh, 6 scfm (170 l/min) @ 80 psi (5.5 bar) Gouging: 360 scfh, 6 scfm (170 l/min) @ 60 psi (4.1 bar)	
Torch lead lengths Handheld	15' (4.5 m)	20, 50, 75' (6.1, 15.2, 22.8 m)	
Mechanized	Not applicable	15, 25, 35, 50, 75' (4.5, 7.6, 10.7, 15.2, 22.8 m)	



Powermax65	Powermax85	Powermax1650	MAX200
3/4" (19 mm) at 20 ipm (500 mm/min)	1" (25 mm) at 20 ipm (500 mm/min)	1-1/4" (32 mm) at 20 ipm (500 mm/min)	1-1/2" (38 mm) at 20 ipm (500 mm/min)
1" (25 mm) at 10 ipm (250 mm/min)	1-1/4" (32 mm) at 10 ipm (250 mm/min)	1-1/2" (38 mm) at 10 ipm (250 mm/min)	2" (50 mm) at 10 ipm (250 mm/min)
1-1/4" (32 mm) at 5 ipm (125 mm/min)	1-1/2" (38 mm) at 5 ipm (125 mm/min)	1-3/4" (44 mm) at 5 ipm (125 mm/min)	2-1/2" (64 mm) at 5 ipm (125 mm/min)
1/2" (12 mm)	5/8" (16 mm)	3/4" (19 mm)	1" (25 mm)
10.7 lbs (4.8 kg)	19.5 lbs (8.8 kg)	21.8 lbs (9.8 kg)	46 lbs (21 kg) - H35
.14" (3.5 mm) x .26" (6.6 mm)	.23" (5.8 mm) x .28" (7.1 mm)	.26" (6.6 mm) x .28" (7.1 mm)	_
20 - 65 A	25 - 85 A	30 - 100 A	40 - 200 A
CSA 200 - 480 V, 1-PH, 50-60 Hz 200 - 600 V, 3-PH, 50-60 Hz CE 400 V, 3-PH, 50-60 Hz	CSA 200 - 480 V, 1-PH, 50-60 Hz 200 - 600 V, 3-PH, 50-60 Hz CE 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	CSA 240/480 V, 3-PH, 60 Hz 600 V, 3-PH, 60 Hz 208 V, 3-PH, 60 Hz 220/380/415 V, 3-PH, 50 Hz 200 V, 3-PH, 50 Hz 500 V, 3-PH, 50 Hz 600 V, 3-PH, 60 Hz CE 400 V, 3-PH, 50 H
139 VDC	143 VDC	160 VDC	150 VDC
CSA 200/208/240/480 V, 1-PH 52/50/44/22 A 200/208/240/480/600 V, 3-PH 32/31/27/13/13 A CE 380/400 V, 3-PH 15.5/15 A	CSA 200/208/240/480 V, 1-PH 70/68/58/29 A 200/208/240/480/600 V, 3-PH 42/40/35/18/17 A CE 380/400 V, 3-PH 20.5/19.5 A	CSA 200/208/230/240/400/480/600 V, 3-PH 53/51/46/44/27/22/21 A CE 230/380/400 V, 3-PH 46/26/27 A	CSA 100/208/240/380/415/480/500/600 V, 3-PH 98/104/90/57/52/45/43/36 A CE 400 V, 3-PH 56 A
CSA 50% @ 65 A, 230 - 600 V, 1/3-PH 40% @ 65 A 200 - 208 V, 1/3-PH 100% @ 46 A, 230 - 600 V, 1/3-PH CE 50% @ 65 A 380/400 V, 3-PH 100% @ 46A 380/400 V, 3-PH	CSA 60% @ 85 A, 230 - 600 V, 3-PH 60% @ 85 A, 480 V, 1-PH 50% @ 85 A, 240 V, 1-PH 50% @ 85 A 200 - 208 V, 3-PH 40% @ 85 A 200 - 208 V, 1-PH 100% @ 66 A, 230 - 600 V, 1/3-PH CE 60% @ 85 A 380/400 V, 3-PH 100% @ 66 A 380/400 V, 3-PH	CSA 60% @ 100 A, 200 - 208 V, 3-PH 70% @ 100 A, 230 - 240 V, 3-PH 80% @ 100 A, 380 - 600 V, 3-PH 100% @ 80 A, 200 - 208 V, 3-PH 100% @ 85 A, 230 - 240 V, 3-PH 100% @ 90 A, 400 - 600 V, 3-PH CE 70% @ 100 A, 230 - 240 V, 3-PH 80% @ 100 A, 380 - 415 V, 3-PH 100% @ 85 A, 230 - 240 V, 3-PH	100% @ 200 A, 400 - 600 V, 3-PH
19.7 x 9.2 x 17.9" (500 x 234 x 455 mm)	19.7 x 9.2 x 17.9" (500 x 234 x 455 mm)	26.4 x 16.8 x 25.8" (671 x 427 x 655 mm)	41.3 x 28.3 x 43" (1040 x 710 x 1090 mm)
CSA 64 lbs (29 kg) CE 57 lbs (26 kg)	CSA 71 lbs (32 kg) CE 62 lbs (28 kg)	CSA 141 lbs (64 kg) CE 144 lbs (65 kg)	CSA 780 lbs (351 kg) CE 800 lbs (363 kg)
Air or N ₂	Air or N ₂	Air or N ₂	Plasma: Air, N ₂ , O ₂ , Ar-H ₂ Shield: Air, N ₂ , CO ₂
Cutting: 400 scfh, 6.7 scfm (189 l/min) @ 85 psi (5.6 bar) Gouging: 450 scfh, 7.5 scfm (212 l/min) @ 70 psi (4.8 bar)	Cutting: 400 scfh, 6.7 scfm (189 l/min) @ 85 psi (5.6 bar) Gouging: 450 scfh, 7.5 scfm (212 l/min) @ 70 psi (4.8 bar)	Cutting: 550 scfh, 9.2 scfm (260 l/min) @ 75 psi (5.1 bar) Gouging: 550 scfh, 9.2 scfm (260 l/min) @ 70 psi (4.8 bar)	Plasma: 66 scfh, 1.1 scfm (31 l/min) @ 120 psi (8.3 bar) Shield: 280 scfh, 4.7 scfm (132 l/min) @ 90 psi (6.2 bar)
10, 25, 50, 75' (3, 7.6, 15.2, 22.8 m)	10, 25, 50, 75' (3, 7.6, 15.2, 22.8 m)	25, 50, 75' (7.6, 15.2, 22.8 m)	25, 50, 75, 100, 125, 150' (7.6, 15.2, 22.8, 30, 37.5, 45 m)
15, 25, 35, 50, 75' (4.5, 7.6, 10.7, 15.2, 22.8 m)	15, 25, 35, 50, 75' (4.5, 7.6, 10.7, 15.2, 22.8 m)	25, 35, 50, 75' (7.6, 10.7, 15.2, 22.8 m)	15, 25, 35, 50, 75, 100, 125 ¹³ (4.5, 7.6, 10.7, 15.2, 22.8, 30, 37.5 m)

¹ Dependent on speed, torch angle and standoff.

Available technologies and features

	Power supply							Torch				Work cable				Miscellaneous					
Model	Drag-cutting capability	Gouging mode	Pilot arc controller	Contact start	Boost Conditioner circuit 4	Auto-voltage 4	FastConnect design	Basic machine interface	Advanced automation interface	90° hand torch ⁵	75° hand torch	15° hand torch	Full-length machine torch	Mini-machine torch	Hand clamp	C-style clamp	Magnetic clamp	Ring terminal	Remote pendant	Carry strap	Wheel gear
Powermax30	•		•	•	•	•					•				•					•	
Powermax45	•	•	•	•	•		•	•			•		•		•				•	•	
Powermax65	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•		
Powermax85	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•		
Powermax1650	•	•	•	•	•	•	•	•		•			•		•				•		•
MAX200	•							•		•			•		•				•		•

⁴ Only on CSA models

Hypertherm's duty cycle ratings are established at 104° F (40° C), according to international standards, and are determined at actual cutting arc voltage levels.

Competitive systems are often rated at room temperature 70° F (20° C) and at theoretical output voltages, which allows duty cycle ratings to be significantly overstated.

³ Additional lengths available.

⁵ 65° hand torch also available for MAX200

Hypertherm: Company overview

For over 40 years, Hypertherm has been designing and manufacturing the world's finest thermal cutting equipment. Hypertherm systems are trusted for performance and reliability that result in increased productivity and profitability for our customers. With an intense focus on technology innovation, Hypertherm has established our position as the industry leader while delivering the tools our customers need to achieve their best results.



Powermax systems are backed by a full 3-year power supply warranty and a 1-year torch warranty.

Accessories



Air filtration kit
A ready-to-install kit with a 1-micron filter
and an auto-drain moisture separator
protects against contaminated air.



Gouging heat shield Provides additional protection in gouging operations. For use on T45v and T100 torches.



Leather torch sheathingAvailable in 25' (7.6 m) sections, this option provides additional protection for torch leads against burn-through and abrasion.



FineCut™ consumable kits FineCut consumables are optimized for high-quality cuts on thin metal for a clean edge and a narrow kerf.



Operator face shield Multi-purpose face shield that provides face and eye protection for plasma cutting and gouging applications.



Filter cover
Designed to protect the filter from being damaged from impact. For use on Powermax65/85 power supplies.



Plasma cutting guides
Facilitates consistent and accurate circles
and lines. For optional use as a stand-off
guide and in bevel cutting applications.



Powermax All-in-one kits
All-in-one kits provide you with a sampling
of all of the consumables available for
your Powermax system. Experience
the versatility of your system, while
purchasing consumables at lower cost.



System dust covers
Made from a durable denier fabric with
a polyurethane coating, a dust cover
will protect your Powermax investment
for years.



Leather cutting glovesPigskin gloves with grain leather palm for excellent sense of touch. Foam back and reinforced thumb.



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Hypertherm[®]

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For the authorized Hypertherm dealer nearest you, visit our website at www.hypertherm.com.

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Powermax systems meet the RoHS directive restricting the use of lead, mercury, cadmium and other hazardous compounds.

ISO 9001:2008
Engineered and
assembled in the USA