

Hypertherm®

Powermax45® XP

Professional-grade plasma system for cutting 16 mm (5/8") thick metal, gouging, and marking.



Capacity	Thickness	Cut speed
Cutting		
Recommended	16 mm (5/8")	500 mm/min (20 ipm)
	22 mm (7/8")	250 mm/min (10 ipm)
Severance (hand cutting)	29 mm (1-1/8")	125 mm/min (5 ipm)
Pierce*	12 mm (1/2")	
* Pierce rating for handheld use or with automatic torch height control		
Capacity	Metal removal rate	Groove profile
Gouging		
Typical gouge	3,4 kg (7.5 lbs) per hour	3,2 mm (.12") D x 6,8 mm (.26") W

Easy-to-use with versatile design

- Small size and light weight provides exceptional portability for a 16 mm (5/8") rated cutting system.
- Handheld and mechanized usage with CNC interface and FastConnect™ torch connection.
- Patented drag-cutting technology makes it easy to use – even for first-time operators.
- Tackle different jobs with multiple, easy-to-use torch styles.
- No need to change the air pressure. Smart Sense™ technology ensures that it is always correctly set.
- Mark, score and make precision gouges with new low amp process.

Maximum productivity

- Finish jobs faster with cut speeds one and a half times greater than oxyfuel on 6 mm (1/4") mild steel.
- Spend less time on grinding and edge preparation due to superior cut and gouge quality.
- Fast change out of consumables using the new torch disable switch feature.

Rugged and reliable

- Duramax® Lock torches are designed for high-impact and heat resistance.
- SpringStart™ technology ensures consistent starting and a more reliable torch.
- Hypertherm Certified™ reliability ensures performance in the most demanding environment.

Duramax Lock standard torch styles

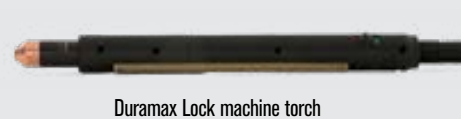
(for more torch options, see www.hypertherm.com)



Duramax Lock 75° hand torch

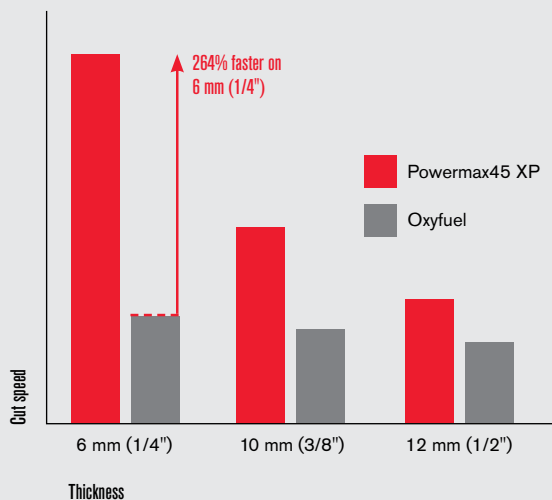


Duramax Lock 15° hand torch



Duramax Lock machine torch

Relative cut performance on mild steel



Specifications

Input voltages (± 10%)	CSA 200–240 V, 1-PH, 50–60 Hz CE/CCC 230 V, 1-PH, 50–60 Hz 400 V, 3-PH, 50–60 Hz
Input current @ 6,5 kW	CSA 200–240 V, 1-PH, 39/32 A CE/CCC 230 V, 1-PH, 33 A 400 V, 3-PH, 10 A
Output current	10–45 A
Rated output voltage	145 VDC
Duty cycle @ 40° C (104° F)	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/CCC 50% @ 45 A, 230 V, 1-PH 60% @ 41 A, 230 V, 1-PH 100% @ 32 A, 230 V, 1-PH 50% @ 45 A, 480 V, 3-PH 60% @ 41 A, 480 V, 3-PH 100% @ 32 A, 480 V, 3-PH
Open circuit voltage (OCV)	275 VDC (200–240 V, CSA/CE/CCC and 480 V, CSA) 265 VDC (400 V CE/CCC)
Dimensions with handles	442 mm (17.4") D; 173 mm (6.8") W; 357 mm (14.1") H
Weight with 6,1 m (20') torch	CSA 14 kg (31 lbs.) CE/CCC 15 kg (33 lbs.)
Gas supply	Cutting: air (clean, dry and oil-free), nitrogen, F5 Gouging: air (clean, dry and oil-free), nitrogen, F5 Marking: air (clean, dry and oil-free), argon
Recommended gas inlet flow rate/pressure	188 l/min (400 scfh) @ 5,9 bar (90 psi)
Input power cable length	3 m (10')
Power supply type	Inverter – IGBT
Engine drive requirement	12.5 kVA (10 kW) for full 45 A output
Electrical efficiency	88%
Recyclability	100%
Certifications	CSA certified for use in the Americas and Asia, except China. CCC for use in China. CE, RCM, CU/GOST-TR, UkrSEPRO, and Serbian AAA for use in Europe, Australia, Belarus, Kazakhstan, Russia, Serbia, Ukraine, and other countries where accepted.
Warranty	Power supply: 3-year Torch: 1-year

Common applications

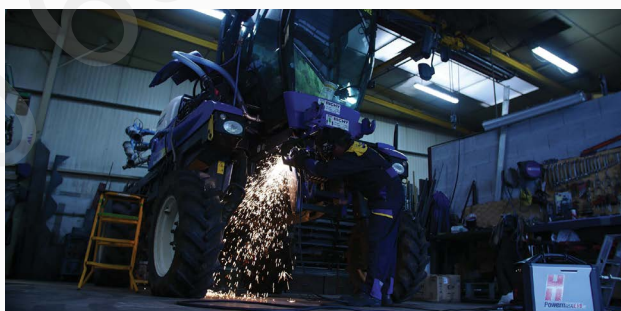
Property/plant maintenance, HVAC and mechanical contracting, general fabrication, plus:



Construction



Maintenance and repair



Agricultural and farm equipment maintenance

		75° hand torch		75° and 15° hand torch	180° full-length machine torch								180° full- length machine torch and 75° hand torch
		6,1 m (20') lead	15,2 m (50') lead	6,1 m (20') leads	7,6 m (25') lead				10,6 m (35') lead	15,2 m (50') lead			6,1 m (20') and 7,6 m (25') leads
				without remote pendant	with remote pendant	without remote pendant	with I/O cables (no pendant)	with remote pendant	with remote pendant	without remote pendant	with I/O cables (no pendant)	with remote pendant	
Power supplies	Voltage configuration												
Standard power supply	200–240 V CSA	088112	088114										
Power supply with CPC port and voltage divider	200–240 V CSA	088113	088115	088124	088116	088121		088117	088118	088122		088123	
Power supply with CPC port, voltage divider, and serial port	200–240 V CSA						088119				088120		
Standard power supply	230 V CE/CCC	088130	088132										
Power supply with CPC port and voltage divider	230 V CE/CCC	088131	088133		088134	088141		088135	088136				
Power supply with CPC port, voltage divider, and serial port	230 V CE/CCC						088139				088140		
Standard power supply	400 V CE/CCC	088144	088146										
Power supply with CPC port and voltage divider	400 V CE/CCC	088145	088147		088148	088155		088149	088150				
Power supply with CPC port, voltage divider, and serial port	400 V CE/CCC						088153				088154		