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Handheld or mechanized plasma system for cutting and gouging metal

Capacity	Thickness	Cut speed		
	Handheld cut			
Recommended	19 mm	500 mm/min		
	25 mm	250 mm/min		
Severance	32 mm	125 mm/min		
Pierce	16 mm*			
	* Pierce rating for handheld use or with	automatic torch height control		
	Metal removal rate	Groove profile		
	Gouge capacity			

3,5 mm D x 6,6 mm W

Key power supply advantages

4,8 kg per hour

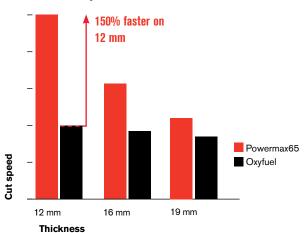
- Smart Sense™ technology automatically adjusts the gas pressure according to cutting mode and torch lead length for optimal performance.
- Boost Conditioner™ circuit (on CSA models) improves performance on low-line voltage, motor generators, and fluctuating input power.
- FastConnect[™] torches, CNC interface, and four work lead styles increase versatility for handheld and mechanized use.
- Simplified control panel with LCD screen for easy operation.

Key torch advantages

- 15° and 75° Duramax™ series hand torches enable operators to easily select the right tool for the job. The handle is more heat resistant and performs at least five times longer in high impact tests than previous torches.
- Standard and short-barreled Duramax series machine torches allow a wide variety of mechanized applications with X-Y tables, track systems, pipe and robotic cutting systems.
- Conical Flow™ nozzle increases arc energy density for superior cut quality with little dross.
- Patent pending shield reduces dross buildup and enables smoother drag cutting for a better cut.



Relative cut performance on mild steel



Specifications

Input voltages	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
Input current @ 9 kW	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
Output current	20 - 65 A
Rated output voltage	139 VDC
Duty cycle @ 40° C	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% @ 46 A, 380/400 V, 3-PH
Open circuit voltage (OCV)	CSA 295 VDC
	CE 270 VDC
Dimensions with handles	500 mm D; 234 mm W; 455 mm H
Weight with 7,6 m torch	CSA 29 kg
	CE 26 kg
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet	Cutting: 189 I/min @ 5,6 bar
flow rate / pressure	Gouging: 212 I/min @ 4,8 bar
Input power cable length	3 m
Power supply type	Inverter – IGBT

Engine-driven generator operation

Engine drive rating (kW)	System output (amps)	Performance (arc stretch)
15	65	Full
12	65	Limited
12	40	Full
8	40	Limited
8	30	Full

Cut chart

Material	Thickness (mm)	Current (amps)	Maximum cut speed¹ (mm/min)
Mild steel	3		5000
	6	65	3900
	12	65	1430
	19	65	610
	25	65	350
Stainless steel	3		4200
	6	65	3800
	12	65	1150
	19	65	490
Aluminum	6	65	5500
	12	65	1660
	19	65	770

¹ Maximum cut speeds are the results of Hypertherm's laboratory testing. For optimum cut performance, actual cutting speeds may vary based on different cutting applications. Refer to the operator manual for more details.

Ordering information

Below are some of the most common system configurations which include a power supply, torch and work cable. Additional configurations are listed on our website.

		Handheld	Mechanized systems				
	Standard power supply H65 torch H65 torch oltages 7,6 m 15 m			with CPC port voltage ratio	Power supply with CPC port and selectable voltage ratio		
Input voltages			H65 torch 7,6 m	H65 torch 15 m	M65 torch M65 tord 7,6 m 15 m		
200 - 600 V CSA ²	083270	083271	083275	083276	083277	083278	
400 V CE ³	083279	083280	083284	083285	083286	083287	

² For use in the Americas and Asia, except China.

Custom configurations (select power supply, torch, work cable and other components)

Power supply options

	Standard power supply	Power supply with CPC port and selectable voltage ratio	Power supply with CPC port, selectable voltage ratio and serial interface port (RS-485)	
200 - 600 V CSA	083234	083266	083267	
400 V CE	083235	083268	083269	

Component options

		Torches			Work cables				Control cables		
Cable length	H65	H65s	M65	M65m	Hand clamp	C-style clamp	Magnet	Ring terminal	Remote pendant	CNC spade plug ⁴	CNC spade plug ⁵
15' (4.5 m)			083254	083259							
25' (7.6 m)	083247	083251	083255	083260	223125	223194	223197	223200	128650	228350	023206
35' (11 m)			083256	083261							
50' (15 m)	083248	083252	083257	083262	223126	223195	223198	223201	128651	228351	023279
75' (23 m)	083249	083253	083258	083263	223127	223196	223199	223202	128652		

⁴ For use with automation equipment that requires divided arc voltage.

Torch consumable parts

Nozzles and electrodes are available in various quantities. Contact your distributor for more information.

Consumable type	Torch type	Amperage	Nozzle	Shield/ Deflector	Retaining cap	Electrode	Swirl ring
		45	220941	000040	<u> </u>	000040	000057
Drag-cutting	Hand	65	220819	220818	220854	220842	220857
Machanizad	Machine	45	220941	000017	220854 or	220842	220857
Mechanized		65	220819	220817	220953 (Ohmic)		
Unshielded	Machine	45	220941	220955	220854	220842	220857
Unshleided	Wacillie	65	220819	9 220933	220034	220042	220031
FineCut®	Hand	45	220930	220931	220854 or	220842	220947
FIIIeGut®	Machine	45	220930	220948	220953 (Ohmic)	220042	220857
Couging	Hand		220797	220798	220854	220842	000057
Gouging	Machine		220191	220190			220857



This system meets the RoHS directive restricting the use of lead, mercury, cadmium and other hazardous compounds.

Power supplies have a 3-year warranty and torches have a 1-year warranty.

ISO 9001:2008

Hypertherm[®]

Cut with confidence™

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For more information, contact your authorized Hypertherm dealer or visit **www.hypertherm.com**.

³ For use in countries that require CE, CCC or GOST marks.

For use when divided arc voltage is not required.