

Make extended reach cutting safer and faster

with Hypertherm long torches



Hypertherm long torches and compatible Powermax[®] air plasma systems are the perfect combination to make your business safer, more productive, and more profitable.

Customers in a wide variety of industries have adopted the Hypertherm long torch and report increased productivity since they can cut faster than with oxyfuel. These customers also appreciate the torch's ergonomic design and the ability to stand straight-up when cutting which they say leads to fewer hand, arm, and back injuries. The use of plasma also allows for the removal of potentially hazardous, hard-to-handle gas cylinders. Popular long torch uses include:

- Metal production such as cutting coupons at steel mills and risers and runners at foundries.
- Decommissioning and demolition of ships, buildings, bridges, and nuclear facilities on schedule and under budget.
- Scrap recycling of all metal – including aluminum, stainless steel, and nonferrous material that oxyfuel cannot cut.
- Skeleton removal up to three times faster than oxyfuel in job shops and manufacturing facilities.

Savings calculator

If you cut with oxyfuel, a saw or a handheld plasma torch, how much will the long torch save?

	Hours of skeleton cutting per shift X		Shifts per day X		Hourly labor cost X		Work days per year X		Time saved with Long torch =	Annual Long torch savings
Industry average*	1.0	X	2	X	25	X	250	X	50%	= 6,250
Your business	—	X	—	X	—	X	—	X	—%	= —

*Average scenario based on customer interviews in the United States.

Ready to buy a Powermax® long torch? Three questions to make the best decision.

1. What is the thickest metal you will typically cut?

Thickness	System
≤ 16 mm (5/8")	Powermax45 XP or larger
≤ 20 mm (3/4")	Powermax65 SYNC or larger
≤ 25 mm (1")	Powermax85 SYNC or larger
≤ 32 mm (1¼")	Powermax105 SYNC or larger
≤ 38 mm (1½")	Powermax125

2. What is your electrical service?

Model	Configurations	AC Voltages	Engine drive required for full cutting output
Powermax45 XP	200-240 V CSA	200-240V (1-phase)	10 kW
	230 V CE/CCC	230V (1-phase)	
	400 V CE/CCC	380 V / 400 V (3-phase)	
	480 V CSA	480 V (3-phase)	
Powermax65 SYNC	200-600 V CSA	200-480 V (1-phase) 200-600 V (3-phase)	15 kW
	380 V CCC/ 400 V CE	380 V / 400 V (3-phase)	
Powermax85 SYNC	200-600 V CSA	200-480 V (1-phase) 200-600 V (3-phase)	20 kW
	380 V CCC/ 400 V CE	380 V / 400 V (3-phase)	
Powermax105 SYNC	200-600 V CSA	200-600 V (3-phase)	30 kW
	230 V – 400 V CE	230 V – 400 V (3-phase)	
	380 V CCC/ 400 V CE	380 V / 400 V (3-phase)	
Powermax125	380 V CCC	380 V (3-phase)	40 kW
	400 V CE	400 V (3-phase)	
	480 V CSA	480 V (3-phase)	
	600 V CSA	600 V (3-phase)	

3. Does the cutting happen at waist height or on the floor?

Waist: 90-degree head



Floor: 45-degree head



Torch configurations

SmartSYNC™ long torches for the Powermax65 SYNC®, Powermax85 SYNC, and Powermax105 SYNC feature RFID capability that when coupled with a Hypertherm cartridge will communicate with a Powermax SYNC system to automatically set the amperage and process on the power supply. This reduces downtime and simplifies consumable inventory management.

Torch length	0.6 m (2')		1.2 m (4')	
Head angle	45°	90°	45°	90°
7.6 m (25')			528114	
15.2 m (50')	528116	528117	528118	528119



Duramax Hyamp® long torches for Powermax125, Powermax45 XP, and the original Powermax65/85/105

Torch length	0.6 m (2')		1.2 m (4')		1.8 m (6')	
Head angle	45°	90°	45°	90°	45°	90°
7.6 m (25')	0595620595630	0595670595680	0595758059623			
15.2 m (50')	0595790595800	0595810595820	05959759059624			
45 m (150')	*059667059668					

The Duramax Hyamp version also has an optional 428809 skeleton cutting sled to allow the torch to glide more easily on the face of skeletons.

*The 150-foot torches are only compatible with Powermax125s built after November 14, 2017 (serial number 125-007944 or higher) or that have had the DSP board replaced with a board built after this date.



Case Study

Hokes Bluff Welding & Fab in Alabama had been using oxyfuel to cut up skeletons after mechanized cutting with the Hypertherm HPR260XD® but switched to a Powermax105® and 1.2 m (4') Duramax Hyamp Long torch. Operator Billy Cherry reports, "I love the long torch. It is a lot faster than oxy, and I don't need to carry a striker in my pocket to light it, like I did with the oxy-torch. It keeps my back from hurting because I don't have to bend over. I drag cut from the edges of the skeleton. It cuts as quickly as the HPR260XD. Cutting scrap can be done immediately after a profile is cut. I can load another plate with little downtime."

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