

Hypertherm®

Remove skeletons safer and faster with the Duramax® Hyamp™ Long torch



One of the most difficult jobs involved with mechanized cutting is dealing with the skeleton after removing cut parts. Skeletons can be heavy and unwieldy to handle, or flex unpredictably. Thin gauge material sometimes has a sharp edge that can lead to cuts even when the operator is wearing gloves. The Hypertherm Powermax® system and Duramax are the perfect combination to make clean up after mechanized cutting safer and faster, resulting in a more profitable operation.

Improve safety

- Cutting the skeleton into smaller pieces makes it easier for the operator to handle, reducing the likelihood of accidents.
- Operators who cut the skeleton with hand torches often stand or kneel on the table, which can be dangerous. The Duramax Hyamp Long torch allows the operator to stand on the floor next to the table in a natural position, preventing ergonomic issues and minimizing the likelihood of falling.
- For operations currently using oxyacetylene torches to cut skeletons, switching to plasma makes the workplace safer by eliminating hazardous gas cylinders that can be difficult to handle.

Increase productivity

- Material handling is a significant source of cost when running a mechanized cutting table. Quick unloading of the skeleton means more CNC cutting time and increased production, growing revenues and profits for the business.
- When cutting half inch mild steel, the Duramax® Hyamp™ Long torch allows the operator to cut faster than oxyacetylene, dramatically increasing productivity and lowering operating costs.

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."

Savings calculator

If you cut the skeleton 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.



Scan this code to learn more about Hyamp Long torches or visit: www.hypertherm.com/longtorch



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SHAPING POSSIBILITY®

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

- What is the thickest plate you typically cut?
 ≤ 16 mm (5/8"): Powermax45 XP or larger
 ≤ 20 mm (3/4"): Powermax65 or larger
 ≤ 25 mm (1"): Powermax85 or larger
 ≤ 32 mm (1 1/4"): Powermax105 or larger
 ≤ 38 mm (1 1/2"): Powermax125
- What is your electrical service?

	200-240V	200-600V	480V	600V
1 Phase	45 XP	65/85		
3 Phase		65/85/105	45 XP/125	125

- Does the cutting happen on the table or on the floor next to the table?
 - On table: 90 degree four foot Long torch (059568)
 - On floor: 45 degree four foot Long torch (059567)

Torch configurations

Torch lead length	Torch length, head angle				
	0.6 m (2') 45°	0.6 m (2') 90°	1.2 m (4') 45°	1.2 m (4') 90°	1.83 m (6') 90°
7.6 m (25')	059562	059563	059567	059568	059623
15.2 m (50')	059579	059580	059581	059582	059624
45 m (150')*			059667	059668	

*These 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.

Duramax Hyamp Long torch sled

Cut skeletons faster and easier with the new Hypertherm torch sled for the Duramax Hyamp Long torch. This guide allows the torch to glide smoothly over the face of the skeleton.



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