HYPERTHERM®
A Hypertherm Associates Brand

Upgrade to Powermax® cartridge

Powermax cartridge adapters and Cartridge retrofit torches







Upgrade to the revolutionary Powermax cartridge consumable platform with the installation of a torch adapter or Cartridge retrofit torch.

Easy to use

- The single-piece color coded Powermax cartridge consumable dramatically simplifies consumable identification and installation for any cutting and gouging application.
- Installation of a torch adapter onto a Duramax, Duramax Lock, or Duramax Hyamp torch makes conversion to the cartridge platform a simple process.
- The Cartridge retrofit torch easily clicks into place on Powermax systems, enabling use of the Powermax cartridge without an adapter.

Cost effective

- The Powermax cartridge reduces costly mistakes caused by using the wrong consumable or not knowing which consumable needs to be changed and when.
- Cartridge performance is optimized for cut quality and consumable life, and changing out cartridges is fast and efficient.
- Consumable inventory management is streamlined with fewer parts to purchase and stock.

Compatibility

Powermax cartridge adapters enable conversion to the cartridge consumable platform if you have the following systems and torch types.

System	Torch type	Adapter part number
Powermax45® XP	Duramax® Lock hand, mechanized and robotic	428951
Powermax65®	Duramax hand, mechanized and robotic	
Powermax85®		
Powermax105®		
Powermax125®	Duramax Hyamp hand, mechanized, and robotic	528160

- Not recommended for use on Duramax retrofit torches for Powermax1000/1250/1650
- The cartridge consumable platform is standard for the Powermax45/65/85/105 SYNC® systems with SmartSYNC™ torches (no adapter required)

System	Torch type	Part number
Powermax45® XP	Cartridge HRT 75° hand torch w/7.6 m (25') lead	059920
Powermax65®	Cartridge MRT 180° machine torch w/15.2 m (50') lead	059930
Powermax85®		
Powermax105®	Cartridge MRT 180° mini machine/robotic torch w/15.2 m (50') lead	059940
Powermax125®		

The easy to identify cartridges are color coded by process to eliminate consumable part mix-ups and are clearly marked for amperage and part number. Cartridges are mixed material recyclable.





Powermax cartridge adapters are designed to support several cartridge change-outs. Periodically inspect and remove the adapter from the torch to check for cracking and thread wear to determine when to replace.



The standard adapter adds .69" (18 mm) to the operational length of the Duramax and Duramax Lock torch.



The Hyamp adapter adds 1.31" (33 mm) to the operational length of the Duramax Hyamp torch.

When using Powermax cartridge on an adapter, no data is transferred from the cartridge to the system for automated process setup or to provide cartridge usage data. That functionality is available for Powermax SYNC systems with SmartSYNC torch technology.*

*SmartSYNC torches are not compatible with Powermax45 XP/65/85/105 A systems



Not to scale



Drag cutting and FineCut® for hand torches

Hypertherm cartridges	
Process	**Cartridge**
Hyamp	528162
105 A	428937
85 A	428935
65 A	428931
45 A	428927
FineCut drag cutting	428928

Replaces this stack-up				
Shield	**Retaining cap**	**Nozzle**	**Electrode**	**Swirl ring**
420000	220977	220975	220971	220997
220992	220854	220990	220842	220994
220818		220816		220857
		220819		
		220941		
220931		220930		220947



Mechanized and FineCut for machine torches

Hypertherm cartridges	
Process	**Cartridge**
Hyamp	528161
105 A	428936
85 A	428934
65 A	428930
45 A	428925
FineCut mechanized cutting	428926
Ohmic ring	Kit 428895 Qty (3) rings per kit

Replaces this stack-up				
Shield	**Retaining cap**	**Nozzle**	**Electrode**	**Swirl ring**
220976	220977 or 420156 (Ohmic)	220990	220971	220997
220993	220854 or 220953 (Ohmic)	220990	220842 or 220777 (CopperPlus®)	220994
220817 or 220955 (Deflector)		220816		220857
		220819		
		220941		
220948 or 220955 (Deflector)		220930	220842	220947

Reference the cut charts guide for cartridge adapter on Duramax® torches 811300MU.
Mechanized cartridges can be used on hand torches if a stand-off is desired.



Max removal and max control gouging

Hypertherm cartridges	
Process	**Cartridge**
Max removal gouging 105 A	428938
Max removal gouging 45–85 A	428932
Max control gouging 105 A	428939
Max control gouging 45–85 A	428933

Replaces this stack-up				
Shield	**Retaining cap**	**Nozzle**	**Electrode**	**Swirl ring**
220798	220854	220991	220842	220994
		220797		220857
420480		220991		220994
		220797		220857



Applications

Hypertherm cartridges	
Process	**Cartridge**
HyAccess drag cutting 65 A	428984
HyAccess mechanized cutting 65 A	528079
HyAccess gouging 65 A	428987
FlushCut 105 A	428954
FlushCut 85 A	428953
FlushCut 65 A	428952
HyPilot mechanized cutting 105 A	528157

Powermax® cartridges are manufactured to uphold our high standards for quality and reliability. As part of the manufacturing process, we test-fire each cartridge to ensure proper assembly and function. As a result, there may be burn marks on the tip of the cartridge. This is normal and not a sign of damage.

SHAPING POSSIBILITY®

PLASMA | LASER | WATERJET | AUTOMATION | SOFTWARE | CONSUMABLES

For more information, visit: www.hypertherm.com

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© 8/2026 Hypertherm, Inc. Revision 3

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