

# Cartridge adapter

For the Powermax torch series Duramax and Duramax Lock



Upgrade to the new revolutionary Hypertherm cartridge consumable platform with the installation of a torch adapter for Powermax<sup>®</sup> Duramax<sup>®</sup> and Duramax Lock series torches.

## Easy to use

- The Hypertherm new single-piece cartridge consumable dramatically simplifies what is needed to accomplish any cutting or gouging application.
- Installation of a torch adapter onto a Duramax or Duramax Lock torch makes conversion to the cartridge platform a simple process.
- Cartridge performance is optimized for cut quality and life and changing out cartridges is simple and efficient.

## Cost effective

- The Hypertherm cartridge reduces costly mistakes caused by using the wrong consumable or not knowing which consumable needs to be changed and when.
- The torch adapter is durable for multi-use and does not require upgrading to a new torch platform.
- Consumable inventory management is streamlined and more efficient with fewer parts to purchase.

## Compatibility

The torch adapter allows for 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®		

- Not recommended for use on Duramax retrofit torches for Powermax1000/1250/1650
- Not compatible with Duramax Hyamp™ standard or long style torches
- The cartridge consumable platform is standard for the new Powermax65/85/105 SYNC® systems with SmartSYNC™ torches (no adapter required)

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.



The adapter is designed to support multiple 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 adapter adds .69" to the operational length of the torch.



When using the cartridge on a Duramax or Duramax Lock torch with the 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
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
220992	220854	220990	220842	220994
220818		220816		220857
		220819		
		220941		
220931		220930		220947

## Mechanized and FineCut for machine torches



Hypertherm cartridges	
Process	Cartridge
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
220993	220854 or 220953 (Ohmic)	220990	220842 or 220777 (CopperPlus®)	220994
220817 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

Hypertherm cartridges for Powermax® systems 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](http://www.hypertherm.com)

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