

Powermax45® XP

Professional-grade plasma system for cutting 5/8" thick metal, gouging, and marking.



| Capacity | Thickness | Cut speed |
|--|--------------------|-----------------|
| Cutting | | |
| Recommended | 5/8" | 20 ipm |
| | 7/8" | 10 ipm |
| Severance (hand cutting) | 1-1/8" | 5 ipm |
| Pierce* | 1/2" | |
| *Pierce rating for handheld use or with automatic torch height control | | |
| Capacity | Metal removal rate | Groove profile |
| Gouging | | |
| Typical gouge | 7.5 lbs per hour | .12" D x .26" W |

Easy-to-use with versatile design

- Small size and light weight provides exceptional portability for a 5/8" rated cutting system.
- Handheld and mechanized usage with CNC interface and FastConnect™ torch connection.
- Patented drag-cutting technology makes it easy to use—even for first-time operators.
- Tackle different jobs with multiple, easy-to-use torch and consumable styles.
- No need to change the air pressure. Smart Sense™ technology ensures that it is always correctly set.
- Mark, score and make precision gouges with new low amp process.

Maximum productivity

- Finish jobs faster with cut speeds one and a half times greater than oxyfuel on 1/4" mild steel.
- Spend less time on grinding and edge preparation due to superior cut and gouge quality.
- Fast change out of consumables using the new torch disable switch feature.

Rugged and reliable

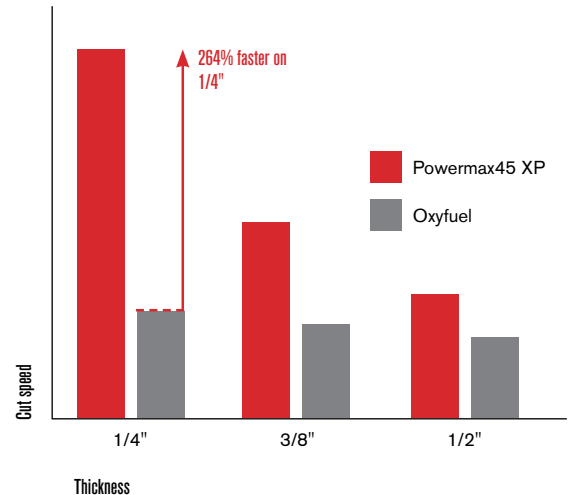
- Duramax® Lock torches are designed for high-impact and heat resistance.
- SpringStart™ technology ensures consistent starting and a more reliable torch.
- Hypertherm Certified™ reliability ensures performance in the most demanding environment.

Duramax Lock standard torch styles

(for more torch options, see www.hypertherm.com)



Relative cut performance on mild steel



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

Power supply options

| | Standard power supply | Power supply with CPC port and voltage divider | Power supply with CPC port, voltage divider, and serial port |
|---------------|-----------------------|--|--|
| 200–240 V CSA | 088092 | 088104 | 088105 |
| 480 V CSA | 088095 | 088110 | 088111 |

Starter kit consumable options

| | Handheld | Mechanized | Mechanized with ohmic retaining cap |
|-----|----------|------------|-------------------------------------|
| Kit | 428559 | 428560 | 428561 |

Torch options

| Cable length | Hand torches | | Machine torches | | Robotic torches | | |
|--------------|--------------|---------|-----------------|-----------|-----------------|---------|---------|
| | 75° | 15° | 180° | Mini 180° | 45° | 90° | 180° |
| 15' | | | 059476* | 059481* | | | |
| 20' | 088164 | 088162 | | | | | |
| 25' | | | 088167 | 059482* | 059464* | 059465* | 059466* |
| 35' | | | 088168 | 059483* | | | |
| 50' | 088165 | 088163 | 088169 | 059484* | | | |
| 75' | 059475* | 059472* | 059480* | | | | |

* without torch disable switch

Cable options

| Cable length | Work cables | | Control cables | | | |
|--------------|-------------|----------------|---------------------------------------|--|----------------------------------|---------------------------|
| | Hand clamp | Remote pendant | CNC, spade connector, divided voltage | CNC, spade connector, no divided voltage | RS-485 Serial comm, unterminated | RS-485 Serial comm, D-sub |
| 25' | 223595 | 128650 | 228350 | 023206 | 223236 | 223239 |
| 50' | 223596 | 128651 | 228351 | 023279 | 223237 | 223240 |
| 75' | 223127 | 128652 | | | | |

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 |
|---------------------|---------------|----------|---------------------|-------------------------------|-------------------------------|-----------|------------|
| Drag-cutting | Hand | 45 | 220941 | 220818 | 220854 | 220842 | 220857 |
| Mechanized | Machine | 45 | 220941 | 220817 or 220955 ¹ | 220854 or 220953 ² | 220842 | 220857 |
| FineCut® | Hand | 45 | 220930 | 220931 | 220854 or 220953 ² | 220842 | 220947 |
| | Machine | 45 | | 220955 or 220948 ³ | | | |
| Max control gouging | Hand/ Machine | 26–45 | 420419 | 420480 | 220854 | 220842 | 220857 |
| Precision gouging | Hand/ Machine | 10–25 | 420415 | 420414 | 220854 | 220842 | 220857 |
| Marking | Hand/ Machine | 10–25 | 420415 | 420542 | 220854 or 220953 ² | 220842 | 220857 |
| FlushCut™ | Hand/ Machine | 30–45 | 420633 ³ | 420540 ⁴ | 420536 | 420635 | 420634 |
| HyAccess™ cutting | Hand | 15–45 | 420410 ³ | N/A | 420413 | 420408 | 220857 |
| HyAccess™ gouging | Hand | 15–45 | 420412 ³ | N/A | 420413 | 420408 | 220857 |

¹ Deflector for unshielded cutting

² Ohmic retaining cap

³ Nozzle/shield assembly

⁴ Retaining ring

Recommended Hypertherm genuine accessories



Face shield

Clear face shield with flip-up shade for cutting and grinding. Safety shield included. ANSI Z87.1, CSA Z94.3, CE

- 127239 Face shield shade 6
- 127103 Face shield shade 8



Air filtration kit

A ready-to-install kit with a 1-micron filter and an auto drain moisture separator protects against contaminated air.

- 128647 Eliminator filter



Leather torch sheathing

Available in .25' sections, this option provides additional protection for torch leads against burn-through and abrasion.

- 024877 Black leather with Hypertherm logos



Circle cutting guides

Quick and easy set up for accurate circles up to 28" diameter. For optional use as a stand-off guide for straight and bevel cuts.

- 127102 Basic kit – 15" arm, wheels and pivot pin
- 027668 Deluxe kit – 11" arm, wheels, pivot pin, anchor base and plastic case



Rolling tool bag

This rugged bag transports the Powermax45 XP with extra room for torches, consumables, accessories, and other gear. 19.5" x 17.5" x 12.5"

- 017060 Rolling tool bag



System dust covers

Made from a flame-retardant vinyl, a dust cover will protect your Powermax® system for years.

- 127219 Cover, Powermax45 and 45 XP



Essential consumable kit

Essential kits provide an assortment of standard consumables in a convenient case for organizing and reordering.

- 851510 Handheld kit
- 851511 Mechanized kit
- 851512 Mechanized ohmic kit

For more information, visit: www.hypertherm.com

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