Hypertherm®

EDGE® Pro

Shape cutting control

Easy, reliable, performance

The EDGE Pro CNC builds on more than 40 years of Hypertherm's experience in the cutting industry. Designed to be flexible and easy to use, the EDGE Pro delivers reliable performance for improved profitability. Using Phoenix™ software, this CNC improves cut quality and productivity by delivering our expertise directly to your factory, making it as if you have your best operator on every shift.

Hypertherm's proprietary Phoenix software is the core operational interface and is common across the entire family of CNCs. The software is designed specifically for the X-Y and bevel cutting market. Through years of cutting experience, Hypertherm engineers have learned the critical parameters to achieve superior quality performance on every part.
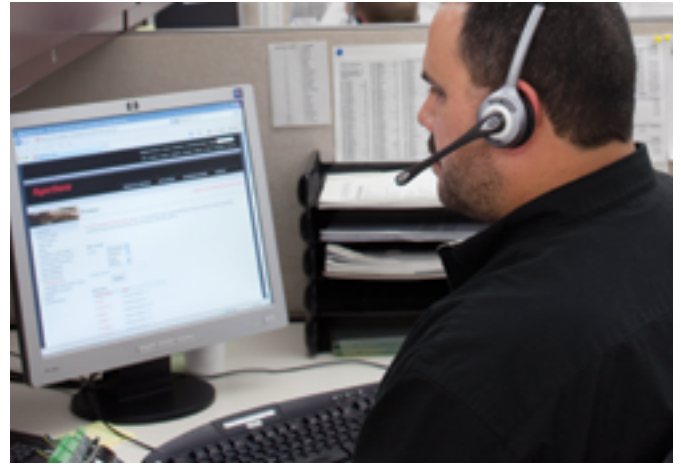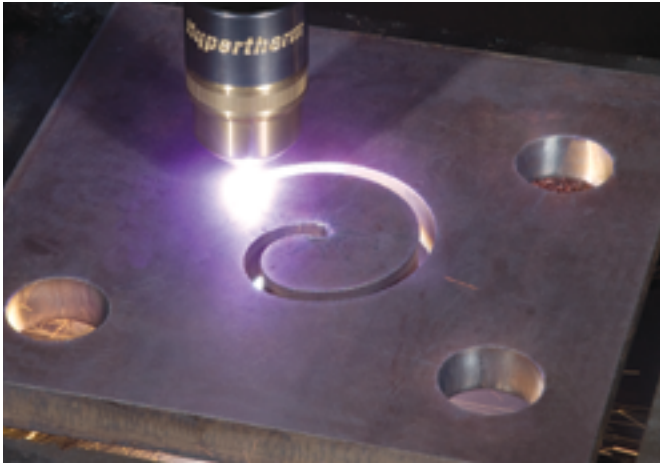
Easy to use

- Using the patented CutPro® Wizard, even new operators can be ready to cut production parts in less than five minutes

- LAN/Wireless Network and USB access for part program loading and software updates

- One touch access to supporting documentation including cutting optimization tips, consumable change instructions and diagnostic tools in multiple languages

- Configurable Watch Windows™ enable on-screen real-time monitoring of key process performance parameters while cutting

- Integrated communications with plasma and torch height control systems deliver automated and expert control using installed factory or custom cut charts

- Built-in two-station operator's console, with tactile joystick, speedpot, and torch position control for easy operation

Reliable

- Designed and stress tested to ensure reliable and consistent operation in harsh cutting environments

- Air cooling to reduce stress on electronic components without dust ingress

- Hypertherm plasma, CNC, and THC manuals are available in multiple languages at the touch of a button. Machine specific user manuals can be added for easy access to critical information

- 2-year factory warranty

- Industrial glass touchscreen utilizing surface acoustic wave technology for durability

Performance

- Critical plasma, THC and cutting machine parameters can be controlled in the part program using Part Program Support (PPS) for optimal and repeatable cut quality every day, every shift

- Hardware and software designed for a broad range of processes such as oxyfuel, laser, waterjet, marking and plasma cutting, including tube/pipe and bevel cutting applications

- Patented True Hole® technology with process verification ensures all operator variables are properly set

- ArcGlide® THC or HyIntensity™ Fiber Laser connectivity via Hypernet® communication for easy setup and operation

- Custom cut charts can be created and controlled in the part program or made available to the CutPro Wizard

Serviceability

- Remote Help™ quickly enables CNC, plasma system and cutting machine diagnosis and repair over the internet reducing the need for on-site visits

- Ability to conduct HyPerformance® Plasma, Powermax® plasma, and HyIntensity Fiber Laser diagnostics at the CNC

- Intuitive hardware service kit helps rapidly isolate system errors

- Built-in oscilloscope function for system diagnostics

- Worldwide network of Hypertherm service engineers available as needed to support cutting machine manufacturer service personnel

Flexible Configurations

The EDGE Pro offers multiple back-door interfaces for table manufacturer integration. Providing two analog and two SERCOS interface options, the EDGE Pro allows the table manufacturer to configure the CNC to match the table design

- Regulatory certifications: C-Tick, cCSAus, CE, GOST-R and UkrSEPRo
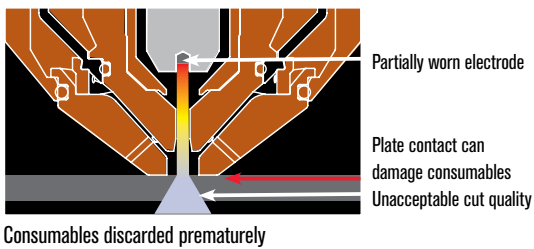
Plasma torch height control options

Traditional torch height controls require operators to periodically adjust arc voltage to ensure proper cut height. Using Hypertherm's proprietary techniques, the Sensor™ THC, Sensor Ti THC and ArcGlide THC continuously sample arc voltage and automatically adjust arc voltage for proper torch height over the life of the consumables without requiring operator input.
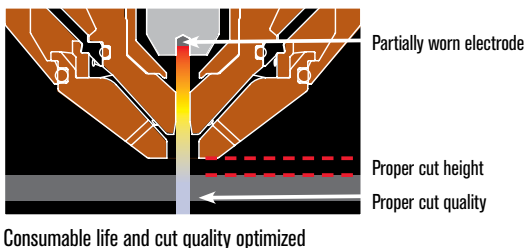
THC features include:

- Minimal operator input
- Sample arc voltage
- Rapid Part™ technology
- Programmable transfer, pierce, and cut height
- Automated IHS using ohmic contact or stall force
- Part Program Support (PPS)
- Torch breakaway options including collision detection
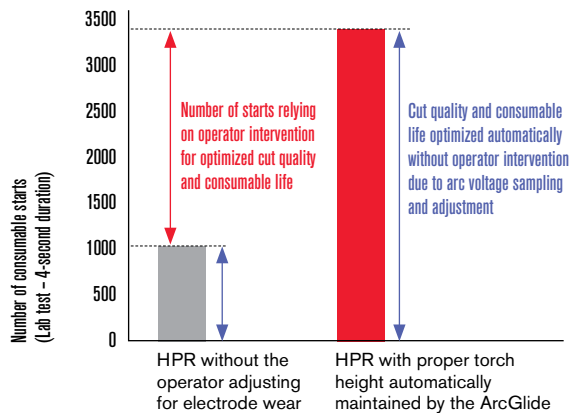- Built in diagnostics

Improper cut height due to not adjusting arc voltage for electrode wear

Partially worn electrode

Plate contact can damage consumables

Unacceptable cut quality

Consumables discarded prematurely

Proper cut height automatically maintained by the THC

Partially worn electrode

Proper cut height

Proper cut quality

Consumable life and cut quality optimized

Number of consumable starts with < 0.25 mm (0.010") deviation from proper cut height without operator intervention (130 A) 12 mm (1/2") mild steel

Number of consumable starts
(Lab test – 4-second duration)

Number of starts relying on operator intervention for optimized cut quality and consumable life

Cut quality and consumable life optimized automatically without operator intervention due to arc voltage sampling and adjustment

HPR without the operator adjusting for electrode wear

HPR with proper torch height automatically maintained by the ArcGlide

For a location near you, visit:
www.hypertherm.com

One of Hypertherm's long-standing core values is a focus on minimizing our impact on the environment. Doing so is critical to our, and our customers', success. We are always striving to become better environmental stewards; it is a process we care deeply about.

Greener Cuts™

Hypertherm®
SHAPING POSSIBILITY™