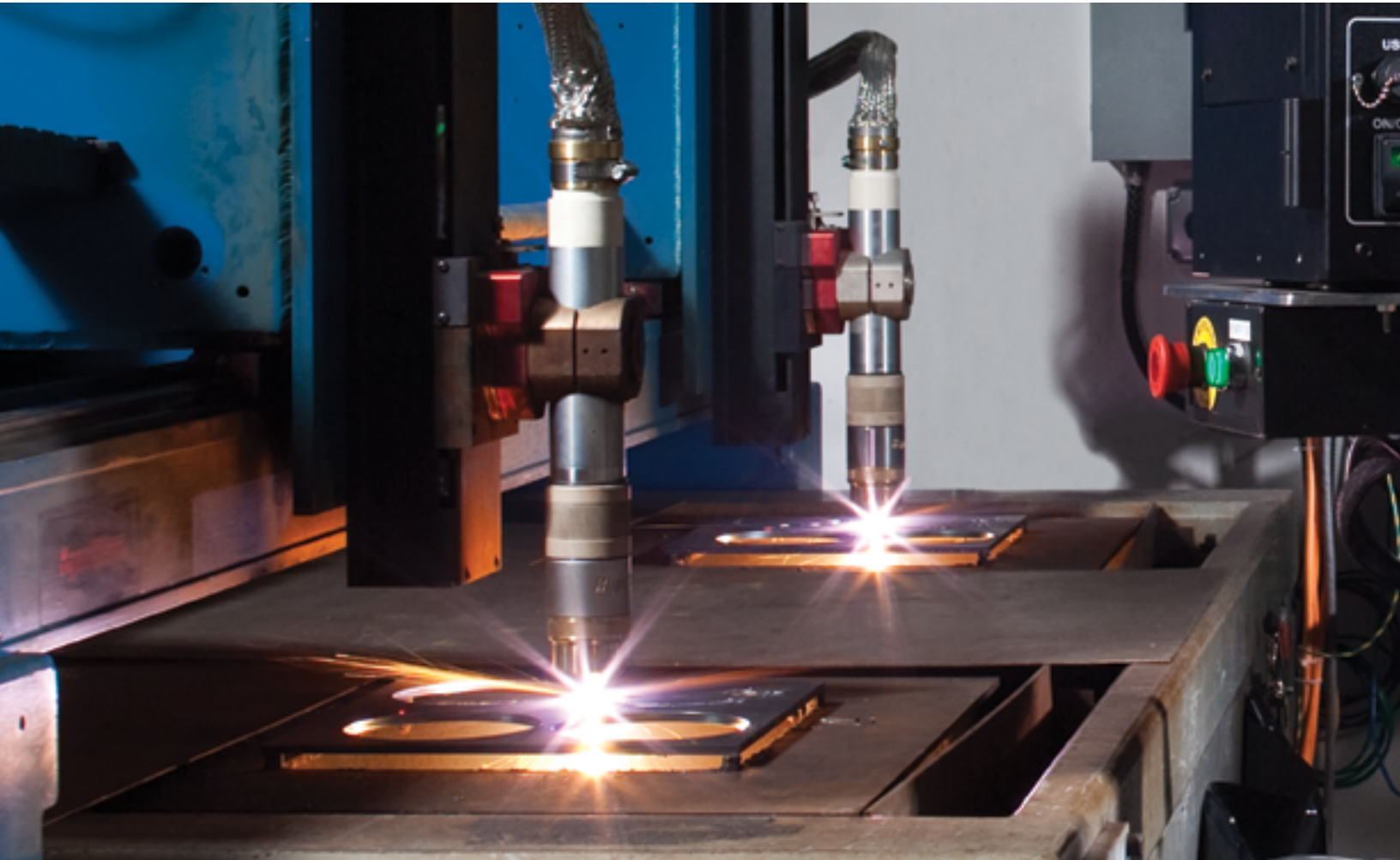




# ArcGlide® THC

with Hypernet® interface



Superior cut quality | Optimal consumable life  
Increased productivity | Robust design

## ArcGlide THC advantages

The ArcGlide THC offers optimal cut quality, substantially improved productivity and reduced operating costs for plasma cutting applications. Specific advantages include:

- Optimal consumable life and superior cut quality through arc voltage sampling and control
- Up to 100% improvement in parts cut per hour by minimizing cut-to-cut cycle time using Rapid Part™ technology.
- Installation using Hypernet® communication, which simplifies operation and reduces installation time for single and multi-torch applications
- Robust mechanics for high reliability, backed by a two-year warranty
- True Hole® technology capable for HyPerformance® Plasma HPRXD® installations

Performance advantages are achievable without operator input, eliminating the need for extensive training and allowing you to get the best performance across any shift with any operator at any plant.



## Optimize your plasma investment with superior torch height control

The ArcGlide THC (torch height control) builds on more than 40 years of Hypertherm's experience in the cutting industry. Designed to deliver optimized performance without operator input, the ArcGlide THC provides superior performance and reliability for plasma applications while reducing the cost of cutting.

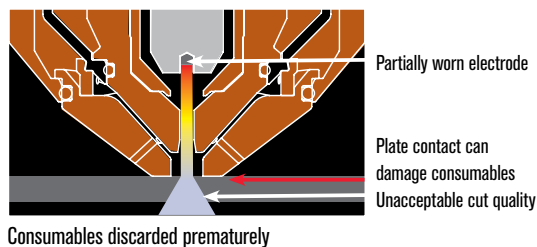


Optional HMI  
(human machine interface)

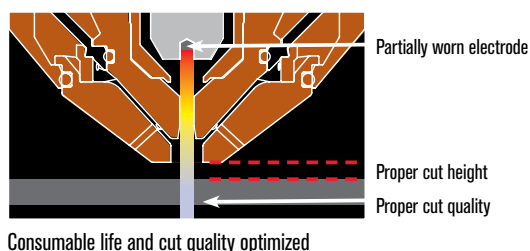
### Optimize consumable life and cut quality

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

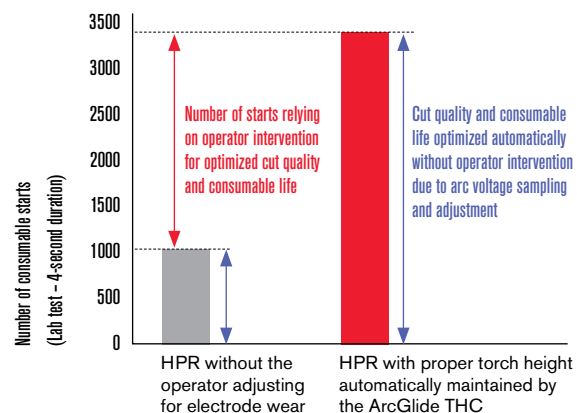
#### Improper cut height due to not adjusting arc voltage for electrode wear



#### Proper cut height automatically maintained by the THC



#### 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



While productivity improvement will vary by process and part type, the ArcGlide THC achieves this with minimal operator input and optimal consumable life.

### Increase parts per hour

The ArcGlide THC maximizes productivity by minimizing cut-to-cut cycle time using Hypertherm's Rapid Part™ technology.

This includes:

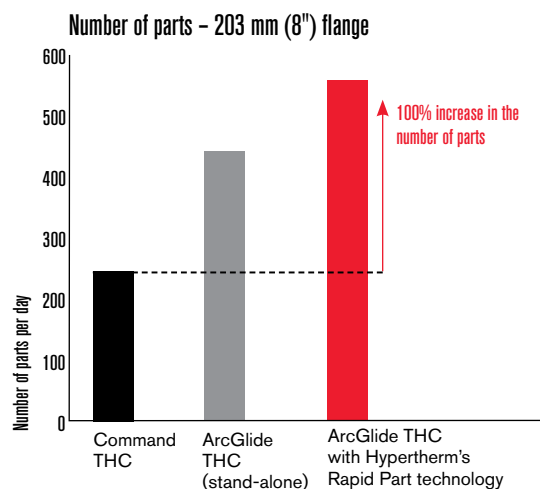
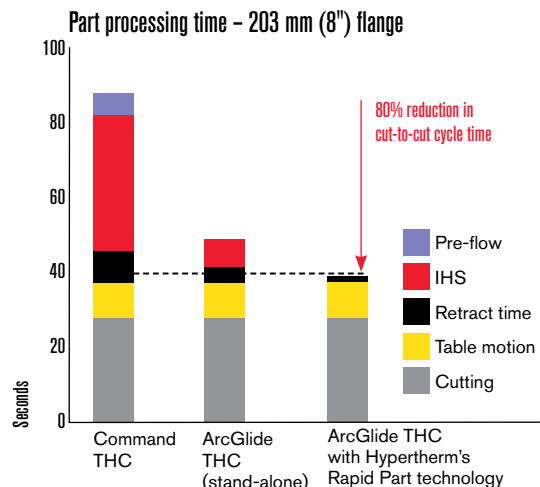
- Automated Initial Height Sense (IHS) crossover height calibration to minimize the time for the torch to find the plate without risking torch damage
- Rapid z-axis movement to an automatically set retract height (or the next pierce height\*) to minimize torch retract time
- IHS is automatically skipped where possible based on part geometry and plate characteristics
- Plasma gas pre-flow is automatically completed during table movement

This results in a reduction of cut-to-cut cycle time by up to 80% without operator input, delivering up to a 100% increase in parts per hour for the flange shown.



Example part –  
203 mm (8") flange

\*Retracting to the next pierce height is triggered in the part program and is available with ProNest © 2012 with Collision Avoidance™.



### Easy to set up and operate

The new Hypernet communication is an Ethernet based protocol that simplifies operation and installation for the ArcGlide THC, CNC and plasma system.

Using Hypernet:

- More than 15 parameters for plasma and torch height control are automatically set and communicated, including inputs / outputs, settings, and state signals for both installation and operation, to substantially reduce data input required
- I/O wiring and setup up is substantially simplified
- Setup for single or multiple plasma torches is achieved in minutes
- New diagnostics tools for the THC are enabled on the CNC



The ArcGlide THC is designed to operate in harsh cutting environments.

- Completely enclosed, doubly protected slide mechanics protect slide internals from metallic dust ingress
- Pierce guard prevents damage from molten metal spatter
- Magnetic breakaway with automatic fault sensing for omnidirectional protection of the torch in the event of a collision.
- Plasma on/off and torch raise/lower control locally and remotely, with a bright station enable indicator light on the lifter



- Laser pointer included for easier plate alignment during job setup
- Single, color coded cable connection to the lifter for easy connectivity
- Automatic stall force calibration for accurate positioning regardless of torch and lead weight

## Standard features

Regulatory	CE, CSA, GOST-R
Temperature range	-10° C to + 40° C ambient (14° F to 104° F ambient)
Humidity	95% RH
Dimensions	Lifter: 127 mm (5.0") X 151 mm (5.9") X 743 mm (29.3") HMI: 298 mm (11.7") X 131mm (5.1") X 118 mm (4.6") Control module: 359 mm (14.1") X 157 mm (6.2") X 206 mm (8.1")
Torch mount / breakaway assembly	11.4 kg (25 lbs) magnetic (recommended) 4.5 kg (10 lbs) magnetic Pneumatic Torch mount options include 51 mm (2"), 44 mm (1-3/4"), and 35 mm (1-3/8")
Stroke speed	15240 mm/min (600 ipm)
Lift capacity	11.4 kg (25 lbs)
Warranty	Two-year warranty standard
Communication protocol	Hypernet to CNC Discrete wiring or Hypernet to the plasma system
Voltage	115V/230 V for the HMI at 50/60hz 115V/230 V for the control module at 50/60hz
Lifter stroke length	241 mm (9.4")
Table types	Downdraft and water table High amperage capacity 1 – 4 plasma system

For a location near you, visit:  
[www.hypertherm.com](http://www.hypertherm.com)

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