HYPERTHERM®
A Hypertherm Associates Brand

XPR® gas connect console selection guide

The XPR platform of X-Definition® plasma cutting systems offers versatility and superior performance through many engineered technologies to deliver you the best possible plasma cutting outcomes. By optimizing gas delivery, the XPR offers flexibility and capability to meet each customer's needs.

Four gas connect console options offer unmatched mild steel cut quality with each console delivering successively enhanced cutting capabilities on stainless steel and aluminum and improved marking outcomes on all materials. All consoles can be fully controlled through the CNC for high productivity and ease of use.

Core™

O_2 N_2 Air

- XPR X-Definition mild steel cutting.
- Very good thin stainless steel cutting. Nitrogen HDi® processes available for non-ferrous materials.
- Nitrogen marking capability.

CorePlus™

O_2 N_2 Air Ar

- XPR X-Definition mild steel cutting.
- Very good thin stainless steel cutting. Nitrogen HDi processes available for non-ferrous materials.
- Nitrogen marking capability.
- Enhanced Argon marking capability.
- Argon assist technology increases pierce capacity.

VWI™

O_2 N_2 Air Ar F5 H_2O

- XPR X-Definition mild steel cutting.
- Patented Vented Water Injection processes yield excellent results for non-ferrous materials.
- F5 HDi available for great results on stainless steel thinner than 1/2".
- Very good thin stainless steel cutting. Nitrogen HDi processes available for non-ferrous materials.
- Nitrogen marking capability.
- Enhanced Argon marking capability.
- Argon assist technology increases pierce capacity.

OptiMix™

O_2 N_2 Air Ar F5 H_2O H_2

- XPR X-Definition mild steel cutting.
- Discrete 3-gas mixing and flexibility to premium stainless steel and aluminum cutting.
- Patented Vented Water Injection processes yield excellent results for non-ferrous materials.
- F5 HDi available for great results on stainless steel thinner than 1/2".
- Very good thin stainless steel cutting. Nitrogen HDi processes available for non-ferrous materials.
- Nitrogen marking capability.
- Enhanced Argon marking capability.
- Argon assist technology increases pierce capacity.
- Full XPR plasma process capability.

Core™

The core console is designed for customers that cut mostly mild steel. The core console offers full X-Definition capability on mild steel and entry-level capability on stainless steel and aluminum through the use of nitrogen as its plasma gas. The Core is capable of marking with nitrogen plasma gas on all materials.

CorePlus™

The CorePlus console is designed for customers that cut mostly mild steel. Like the Core, the CorePlus console offers full X-Definition capability on mild steel and entry-level capability on stainless steel and aluminum through the use of nitrogen as its plasma gas. This includes very good results on thin stainless steel through Hypertherm's HDi cutting process. The CorePlus is capable of marking with argon plasma gas on all materials and provides thicker material piercing using argon-assist technology.

Vented Water Injection™ (VWI)

The VWI console is designed for customers whose volume is predominantly mild steel but who require improved capability for cutting stainless steel and aluminum. The VWI console offers all the benefits of the CorePlus console as well as:

- Patented VWI processes which utilize a water-injection shield yielding excellent cutting outcomes on stainless steel and aluminum
- F5 fuel gas capability delivering superior results on thinner stainless steel compared to nitrogen cutting

OptiMix™

The Optimix console is designed for customers that cut a high volume of stainless steel and aluminum or who require the highest cutting outcomes for these applications. The Optimix console offers all the benefits of the VWI console plus the ability to mix up to three discrete gases (hydrogen, nitrogen and argon):

- Great option for locations where premix fuel gasses like H35 are not available
- Offers the flexibility to adjust gas mixtures to optimize stainless steel and aluminum cutting outcomes

For more information, visit: www.hypertherm.com

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