Hypertherm®

XPR

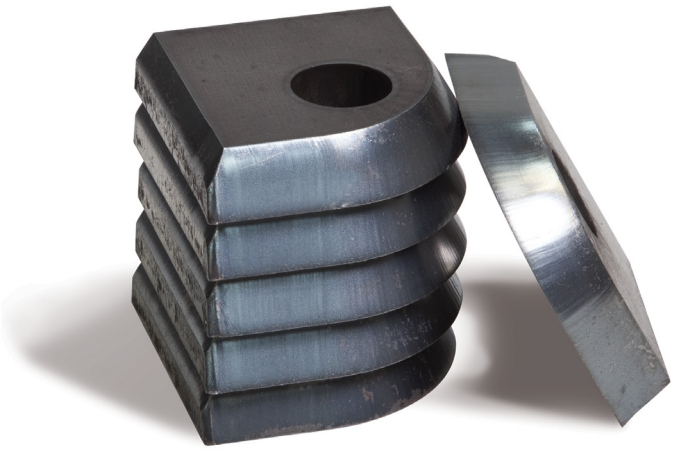
True Bevel technology for XPR

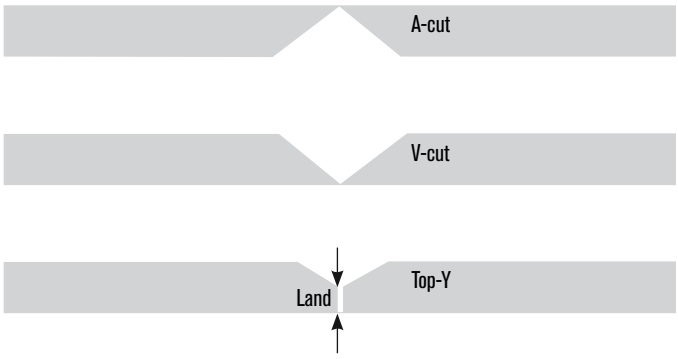
True Bevel™, part of Hypertherm's SureCut™ technology, was launched in 2012 with the HPRXD® family of products. It is now also offered on Hypertherm's XPR™ systems. Factory tested and easily implemented, True Bevel takes the guess work out of the plasma bevel-cutting process. With True Bevel, setups for new jobs are quick and results are accurate.

Benefits

- Setup time and scrap material are greatly reduced for new job setup due to reduced trial and error.
- Bevel cut sequence recommendation is provided for improved accuracy and consistent quality.
- Scalable parameter tables with embedded equations allow users to add new angles with ease.

True Bevel technology works with all common bevel head designs and covers V, A, and Top-Y style cuts for mild steel:





Available now from Hypertherm and our partners.

SureCut™

Maximizing performance through embedded expertise

Bevel angle and land density coverage

True Bevel™ for XPR™ has angle coverage for V and Top Y cuts up to 50° and A cuts up to 45°. The tables contain values for lands ranging from 20% to 50% of the material thickness for Y Top cuts. You can add other angles and land dimensions within the specified ranges into the bevel process parameter tables for more flexibility. The tables automatically provide newly calculated output values for angle compensation, kerf, cut height, cut speed, and arc voltage.

Thickness coverage – metric units (mm)

	6 mm	8 mm	10 mm	12 mm	15 mm	19 mm	20 mm	22 mm	25 mm	32 mm	38 mm
80 A	X	X	X								
130 A		X	X	X	X						
170 A				X	X	X	X	X			
300 A									X	X	X

V-cut and A-cut angle coverage

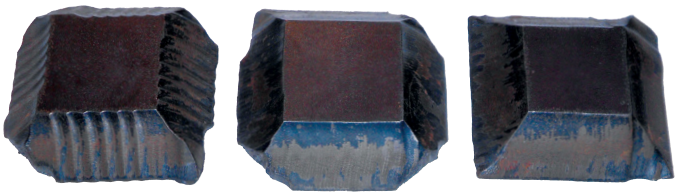
	Angle*											
V-cut	-50°	-45°	-40°	-37.5°	-35°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°
A-cut		45°	40°	37.5°	35°	30°	27.5°	25°	22.5°	20°	17.5°	15°

Top cut angle and land coverage

Y-Top	Angle*	-50			-45			-37.5			-30			-27.5			-22.5		
	Land dimension	20	35	50	20	35	50	20	35	50	20	35	50	20	35	50	20	35	50

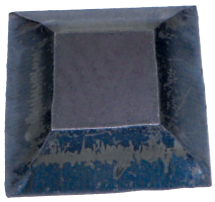
* Angle signs based on negative bias head.

Without True Bevel



These three parts were job setup iterations during field testing using the existing method that took more than 1 hour to complete. At least one further iteration would be required to obtain an acceptable part.

With True Bevel



This single part was achieved on the first try using True Bevel and is an acceptable part ready to start production.

See True Bevel in action at hypertherm.com/truebevel

Environmental stewardship is one of Hypertherm's core values, and it is critical to our success and our customers' success. We are striving to reduce the environmental impact of everything we do. For more information: www.hypertherm.com/environment.

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Hypertherm® SHAPING POSSIBILITY™