

Increased Productivity

- Significantly faster cut speeds (as much as 8 times faster depending on thickness)
- Significantly faster pierce time
- Less rework due to better cut quality
- No preheat required

	½" (12mm)	¾" (20mm)	1" (25mm)	1 ½" (38mm)	2" (50mm)
Oxyfuel	20ipm	17ipm	14ipm	13ipm	12ipm
HPR400XD (400amp)	170ipm	115ipm	85ipm	48ipm	30ipm
% Increase in Speed	8 ½ times faster	6 ½ times faster	6 times faster	3 ½ times faster	2 ½ times faster

Increased Productivity Equation for 3/4"

Linear feet cut = **Duration** of time x **Speed** ÷ 12 (to convert inches to feet)

PLASMA

Duration = 60 minutes

Speed = 115 ipm (3/4")

$$(60 \times 115) \div 12 = 575$$

OXYFUEL

Duration = 60 minutes

Speed = 17 ipm (3/4")

$$(60 \times 17) \div 12 = 85$$

ASSUMPTIONS:

Duration = assume 60 minutes for this example

Speed = inches per minute, per cut charts

Example chosen using HPR400XD. For simplicity, assume straight cutting at 100% duty cycle. We are not taking into account pre-heat time, pierce delay, and secondary operations. All of these factors, if taken into account, would further decrease the amount produced by oxyfuel.

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Cut Volume Comparison
(1 Oxyfuel, 3 Oxyfuel, 1 HyPerformance HPR400XD)

