HYPERTHERM®
A Hypertherm Associates Brand

THE HORSEPOWER OF YOUR PLASMA CUTTER

Not all plasma systems are equal.

There's more to the power of your plasma system than just amps. In fact, amps are only a part of the equation. Just as some V8 engines get more horsepower to the truck's wheels than others; some plasma systems provide more power than their competition. What really completes a system's qualifications for a job are the combination of amps, voltage, and total power output, or watts.

THE **BEST** INVESTMENT IS IN YOUR **POWER**

AMPERAGE × VOLTAGE = WATTAGE

AMPERAGE

A truck's engine size shows how it can perform. Amperage does the same thing for plasma cutters. But if you only look at the engine, you're missing out on key areas that yield major performance enhancements.

VOLTAGE

The RPMs on a truck compare to output voltage on a plasma cutter. The more RPMs, the more power output; the higher output voltage, the faster and cleaner you cut.

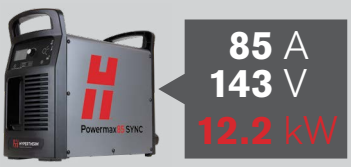
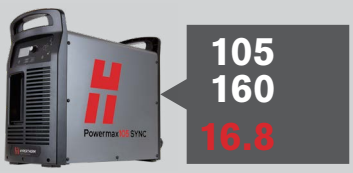
WATTAGE

Horsepower tells us if a truck has the guts to keep up with our work; so does wattage for plasma cutters. Both show the power output of the machine. Some can only reach a certain output. Some have legendary power.

The numbers behind true power.

The comparisons below provide real world examples of a system's true cutting power. Take the Hypertherm Powermax65 SYNC®. It's a 65-amp system with 139 volts of output power. Multiply the two and you get 8,970 watts or nearly 9 kilowatts of pure cutting power. That's the same output power as the competitor's 80-amp system.

Powermax65 SYNC has the same output power as the competitor's 80-amp system.

45 A vs 60 A	65 A vs 80 A	85 A vs 100 A	105 A vs 120 A
 45 A 145 V 6.5 kW	 65 A 139 V 9.0 kW	 85 A 143 V 12.2 kW	 105 160 16.8
Powermax45 SYNC®	Powermax65 SYNC®	Powermax85 SYNC®	Powermax105 SYNC®
60 A 104 V 6.2 kW	80 A 113 V 9.0 kW	100 A 120 V 12.0 kW	120 A 128 V 15.4 kW
Major competitor	Major competitor	Major competitor	Major competitor

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	AMPS	System information		Cutting output		Horsepower		Cut capacities	
		System	Manufacturer	Output current	Rated output voltage (VDC)	Horsepower (Wattage)	Horsepower (kW – Kilowatts)	Recommended (20 ipm)	Severance (5 ipm)
HAND CUTTING SYSTEMS	30	Powermax30® XP	Hypertherm®	30	125	3750	3.75	3/8"	5/8"
		Tomahawk 375 Air	Lincoln Electric	25	90	2250	2.25	5/16"	1/2"
		Spectrum 375	Miller Electric	30	92	2760	2.76	3/8"	5/8"
		Cutmaster 30+	Thermal Dynamics/ESAB	30	120	3600	3.60	3/8"	5/8"
		Razorcut 30di	Razorweld JASIC	30	92	2760	2.76	5/16"	1/2"
		ViperCut 30	Razorweld JASIC	30	U/A	U/A	U/A	1/4"	
		Forney Flex 30 Plasma ST	Forney	30	U/A	U/A	U/A	3/8"	5/8"
		Forney Easy Weld 20P	Forney	20	U/A	U/A	U/A	1/4"	
		Hobart 27i	ITW	30	91	2730	2.73	3/8"	5/8"
		Chicago 20	Harbor Freight	20	115	2300	2.30	3/16"	5/16"
		ViperCut 30i	Razorweld	30	U/A	U/A	U/A	1/4"	
		PowerPlasma 25i XTR	Everlast	25	90	2250	2.25	1/4"	3/8"
	30 Air compressor systems	Powermax30 AIR	Hypertherm	30	83	2490	2.49	5/16"	5/8"
		Drag-Gun Plus 35c	Thermal Dynamics/ESAB	35	94	3290	3.29	1/2"	
		AirCut 15C	Thermal Dynamics/ESAB	15	86	1290	1.29	1/8"	3/16"
		Razorcut 40PCi	Razorweld	40	96	3840	3.84		1/2"
		Hobart AirForce 12ci	ITW	12	100	1200	1.20	1/8"	1/4"
	45	Powermax45 SYNC	Hypertherm	45	155	6975	6.98	5/8"	1-1/8"
		Spectrum 625	Miller Electric	40	140	5600	5.60	1/2"	
		Tomahawk 625	Lincoln Electric	40	96	3840	3.84	1/2"	3/4"
		Cutmaster 40	Thermal Dynamics/ESAB	40	135	5400	5.40	3/8"	1"
		Cutmaster 42 (Older)	Thermal Dynamics/ESAB	40	96	3840	3.84	3/8"	7/8"
		Hobart 40i	ITW	40	140	5600	5.60	5/8"	7/8"
		Forney 45P Pro	Forney	45	U/A	U/A	U/A	5/8"	1-1/8"
		Forney 40P	Forney	40	U/A	U/A	U/A	1/2"	3/4"
		RazorCut 45di	Razorweld JASIC	45	98	4410	4.41	1/2"	1"
		SuperCut 51p (Discontinued)	Everlast	50	100	5000	5.00	1/4"	3/4"
		PowerPlasma 52i	Everlast	50	100	5000	5.00	1/2"	15/16"
		VersaCut 40	Eastwood	40	96	3840	3.84	3/8"	
		Titanium 45	Harbor Freight	45	140	6300	6.30		1"
		Klutch PFC700	Northern Tool	45	U/A	U/A	U/A		7/8"
		ForceCut 40D	Longevity	40	100	4000	4.00		3/4"
		ForceCut 42i	Longevity	40	108	4320	4.32		7/8"
	65	Powermax65 SYNC	Hypertherm	65	139	9035	9.04	3/4"	1-1/4"
		Spectrum 875	Miller Electric	60	140	8400	8.40	3/4"	1-1/4"
		Spectrum 875 Auto Line	Miller Electric	60	140	8400	8.40	3/4"	1-1/4"
		Tomahawk 1000	Lincoln Electric	60	104	6240	6.24	3/4"	1-1/4"
		Cutmaster 52 (Older)	Thermal Dynamics/ESAB	60	104	6240	6.24		1-1/8"
		Cutmaster 60i & 60i X	Thermal Dynamics/ESAB	60	126	7560	7.56	5/8"	1"
		Cutmaster 58	Thermal Dynamics/ESAB	60	104	6240	6.24	5/8"	1"
		PowerPlasma 62i	Everlast	60	104	6240	6.24	3/4"	1-1/4"
		Hatchet 60	Everlast	60	104	6240	6.24	9/16"	1"
		VersaCut 60	Eastwood	60	104	6240	6.24	7/8"	
		Titanium 65	Harbor Freight	65	104 ?	6760	6.76	5/8"	1-3/16"
		ForceCut 62i	Longevity	60	126	7560	7.56	3/4"	1-3/8"
	85	Powermax85 SYNC	Hypertherm	85	143	12155	12.16	1"	1-1/2"
		Cutmaster 82	Thermal Dynamics/ESAB	80	112	8960	8.96	3/4"	1-1/2"
		FlexCut 80 Mech Only	Lincoln Electric	80	140	11200	11.20	3/4"	N/A
		Razorcut 80	Razorweld JASIC	80	112	8960	8.96	1"	1-1/2"
		PowerPlasma 82i	Everlast	80	112	8960	8.96	1"	1-7/16"
	105	Powermax 105 SYNC	Hypertherm	105	160	16800	16.80	1-1/4"	2"
		Tomahawk 1500	Lincoln Electric	100	140	14000	14.00	1"	1-1/2"
		Cutmaster 102	Thermal Dynamics/ESAB	100	120	12000	12.00	1"	1-3/4"
		PowerPlasma 102i	Everlast	100	120	12000	12.00	1-1/4"	1-5/8"
	125	Powermax125	Hypertherm	125	175	21875	21.88	1-1/2"	2-1/4"
		Cutmaster 152	Thermal Dynamics/ESAB	120	128	15360	15.36	1-1/4"	2"
		PowerPlasma 150H	Everlast	150	140	21000	21.00	1.9"	2-1/4"
	200	MAXPRO200	Hypertherm	200	165	33000	33.00	1-1/2"	3"
		PAK200i	Thermal Dynamics/ESAB	200	160	32000	32.00	1-1/2"	2-3/4"
MECHANIZED	45	Powermax 45 SYNC	Hypertherm	45	155	6975	6.98	5/8"	1/2"
		ESAB A40i	ESAB/Thermal Dynamics	40	119	4760	4.76	1/4"	1/2
		ForceCut 42i CNC	Longevity	40	108	4320	4.32	1/4"	1/2"
	65	Powermax65 SYNC	Hypertherm	65	139	9035	9.04	3/4"	5/8"
		ESAB A60i	ESAB/Thermal Dynamics	60	132	7920	7.92	3/8"	5/8"
		PowerPlasma 62i CNC Pkg	Everlast	60	104	6240	6.24	3/4"	5/16"
	85	Powermax 85 SYNC	Hypertherm	85	143	12155	12.16	1"	3/4"
		FlexCut 80	Lincoln Electric	80	140	11200	11.2	3/4"	3/4"
		PowerPlasma 82i CNC Pkg	Everlast	80	112	8960	8.96	5/8"	5/8"
	105	Powermax105 SYNC	Hypertherm	105	160	16800	16.80	1-1/4"	7/8"
		ESAB A80	ESAB/Thermal Dynamics	100	120	12000	12	1/2"	3/4"
		PowerPlasma 102i CNC Pkg	Everlast	100	120	12000	12.00	1-1/4"	3/4"
	125	Powermax125	Hypertherm	125	175	21875	21.88	1-1/2"	1"
		FlexCut 125	Lincoln Electric	125	175	21875	21.875	1-1/4"	1"
		ESAB A120	ESAB/Thermal Dynamics	120	128	15360	15.36	5/8"	3/4"
		PowerPlasma 150H	Everlast	150	140	21000	21	1-1/2"	1-1/2"
	200	MAXPRO200	Hypertherm	200	165	33000	33.00	1-1/2"	1-1/4"
		PAK 200i	ESAB/Thermal Dynamics	200	160	32000	32.00	1-1/2"	2-3/4"

All competitive system information is taken from the competitor's documentation and not verified by Hypertherm.

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