

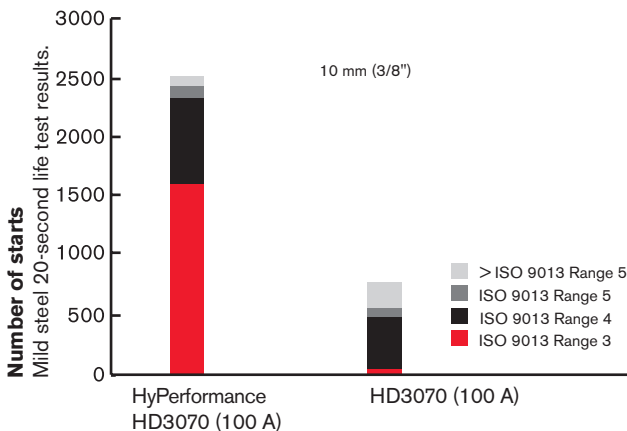
Upgrade your HyDefinition® HD3070® torch to ...



HyPerformance® HD3070

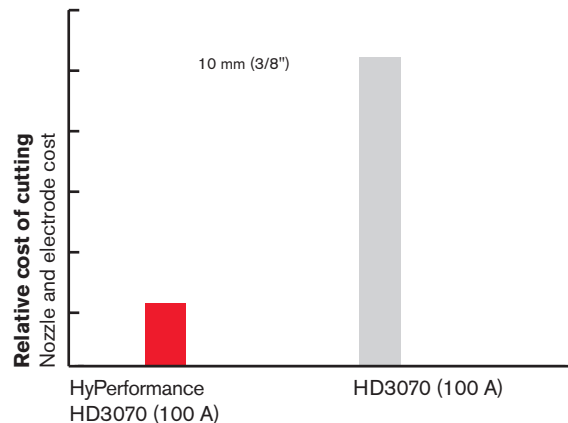
**Upgrade to more consistent cut quality, productivity,
and lower operating costs**

**More consistent cut quality and longer
consumables life**



HyPerformance plasma technology now offers new 100-amp mild steel, stainless steel and aluminum consumables delivering superior cut quality and longer consumable life for significantly reduced operating cost.

Less than 1/2 the operating costs



Cut quality measured according to ISO 9013.

Material thickness	ISO 9013:2002 specifications				
	Range 1	Range 2	Range 3	Range 4	Range 5
mm inch	Angle	Angle	Angle	Angle	Angle
6 1/4"	0.07	1.93	4.59	9.13	13.85
10 3/8"	0.5	1.39	3.18	6.33	9.75
12 1/2"	0.4	1.17	2.58	5.15	8.00



HyPerformance HD3070 upgrade kit information on back

HyPerformance HD3070 – upgrade kit information

**Contact your authorized Hypertherm partner
for sales and installation information**

Description of kits:

228132	Kit: HPR HD3070 upgrade kit
228134	Kit: HPR HD3070 consumable parts kit for 100 A mild steel
228137	Kit: HPR HD3070 consumable parts kit for 100 A stainless steel

Each upgrade kit contains the following:

HyPerformance machine torch
Pressure test gauge kit
Identification labels



Operating data

Material	Current (Amps)	Thickness (mm)	Approximate cutting speed (mm/min.)	Thickness (gauge) (Inches)	Approximate cutting speed (ipm)
Mild steel O ₂ plasma O ₂ shield	30	.5	5355	26 .018	215
		.8	4225	24 .024	200
		1	3615	22 .03	170
		1.2	2865	20 .036	155
		1.5	2210	18 .048	110
		2	1490	16 .06	85
		2.5	1325	14 .075	60
		3	1160	12 .105	50
		4	905	10 .135	40
		6	665	– 3/16	30
–	–	– 1/4	25		
O ₂ plasma O ₂ -N ₂ shield	80	2	9810	14 .075	400
		2.5	7980	12 .105	290
		3	6145	10 .135	180
		4	4300	– 3/16	155
		6	3045	– 1/4	110
		10	1810	– 3/8	75
		12	1410	– 1/2	50
		–	–	– 1/2	50
O ₂ plasma O ₂ -N ₂ shield	100	3	7350	10 .135	270
		4	6200	– 3/16	210
		6	3945	– 1/4	140
		10	2530	– 3/8	105
		12	1970	– 1/2	70
		15	1410	– 5/8	50
		20	610	– 3/4	30
		–	–	–	–
		–	–	–	–
		–	–	–	–
Stainless steel N ₂ plasma N ₂ shield	45	.8	6380	20 .035	240
		1	5880	18 .048	210
		1.2	5380	16 .06	180
		1.5	4630	14 .075	160
		2	3935	12 .105	120
		2.5	3270	10 .135	75
		3	2550	–	–
		4	1580	–	–
F5 plasma N ₂ shield	45	.8	6570	20 .036	240
		1	5740	18 .048	190
		1.2	4905	16 .06	150
		1.5	3890	14 .075	130
		2	3175	12 .105	90
		2.5	2510	10 .135	65
	80	3	2010	– 3/16	45
		4	1435	– 1/4	30
		6	845	–	–
		4	2180	10 .135	105
		6	1225	– 3/16	60
		10	560	– 1/4	45
H35-N ₂ plasma N ₂ shield	100	6	1945	– 1/4	75
		10	1445	– 3/8	60
		12	1125	– 1/2	40
		15	740	– 5/8	25
Aluminum Air plasma Air shield	45	1.2	5670	18 .047	220
		1.5	4420	16 .059	170
		2	4000	14 .075	160
		2.5	3665	12 .105	140
		3	3225	10 .135	110
		4	2575	– 3/16	90
		6	1690	– 1/4	60
H35-N ₂ plasma N ₂ shield	100	6	2620	– 1/4	100
		10	1660	– 3/8	70
		12	1180	– 1/2	40

Note: Take care in comparison: Competitors often show maximum cutting speeds, rather than speeds that deliver the best cuts, as shown above. Cut speeds listed above deliver best cut quality, cut speeds can be up to 50% faster.

Gas specifications

Plasma gas	O ₂ , N ₂ , F5*, H35** & N ₂ , Air
Shield gas	O ₂ , N ₂ , Air
Gas pressure	8.3 bar (120 psi)
*F5 = 5% H, 95% N ₂	
**H35 = 35% H, 65% Ar	

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