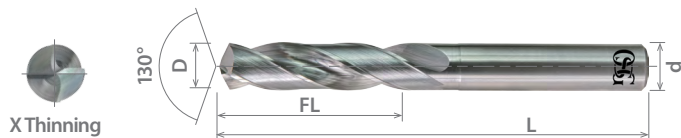


## List HP343

HY-PRO CARB ALD-3D

SPEED FEED 11	CARBIDE	BR	2 FLUTE	STUB	30°	SHANK h6	PACKED 1 PIECE
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Cutting Diameter Tolerance (m7)		
Size (mm)	mm	inch
1 ≤ D ≤ 3	+0.002 / +0.012	+0.0001 / +0.0005
3 < D ≤ 6	+0.004 / +0.016	+0.0002 / +0.0006
6 < D ≤ 10	+0.006 / +0.021	+0.0002 / +0.0008
10 < D ≤ 18	+0.007 / +0.025	+0.0003 / +0.0010

EDP Number	Fractional Size	Wire Gage	Diameter (D)			Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)
			Letter Size	mm	Inch			
110301000	-	-	-	1.000	0.03937	7.00	35.00	3.00
110301100	-	-	-	1.100	0.04331	7.00	35.00	3.00
110301190	3/64	-	-	1.190	0.04688	8.00	35.00	3.00
110301200	-	-	-	1.200	0.04724	8.00	35.00	3.00
110301300	-	-	-	1.300	0.05118	8.00	35.00	3.00
110301400	-	-	-	1.400	0.05512	9.00	35.00	3.00
110301500	-	-	-	1.500	0.05906	9.00	40.00	3.00
110301590	1/16	-	-	1.590	0.06250	10.00	40.00	3.00
110301600	-	-	-	1.600	0.06299	10.00	40.00	3.00
110301700	-	-	-	1.700	0.06693	10.00	40.00	3.00
110301800	-	-	-	1.800	0.07087	11.00	40.00	3.00
110301900	-	-	-	1.900	0.07480	11.00	40.00	3.00
110301980	5/64	-	-	1.980	0.07813	13.00	45.00	3.00
110302000	-	-	-	2.000	0.07874	13.00	45.00	3.00
110302100	-	-	-	2.100	0.08268	13.00	45.00	3.00
110302200	-	-	-	2.200	0.08661	13.00	45.00	3.00
110302300	-	-	-	2.300	0.09055	13.00	45.00	3.00
110302380	3/32	-	-	2.380	0.09375	15.00	45.00	3.00
110302400	-	-	-	2.400	0.09449	15.00	45.00	3.00
110302500	-	-	-	2.500	0.09843	15.00	50.00	3.00
110302600	-	-	-	2.600	0.10236	15.00	50.00	3.00
110302700	-	-	-	2.700	0.10630	17.00	50.00	3.00
110302780	7/64	-	-	2.780	0.10938	17.00	50.00	3.00
110302800	-	-	-	2.800	0.11024	17.00	50.00	3.00
110302900	-	-	-	2.900	0.11417	17.00	50.00	3.00
110303000	-	-	-	3.000	0.11811	20.00	62.00	6.00
110303100	-	-	-	3.100	0.12205	20.00	62.00	6.00
110303170	1/8	-	-	3.170	0.12500	20.00	62.00	6.00
110303200	-	-	-	3.200	0.12598	20.00	62.00	6.00
110303300	-	-	-	3.300	0.12992	20.00	62.00	6.00
110303400	-	-	-	3.400	0.13386	20.00	62.00	6.00
110303500	-	-	-	3.500	0.13780	20.00	62.00	6.00
110303570	9/64	-	-	3.570	0.14063	20.00	62.00	6.00
110303600	-	-	-	3.600	0.14173	20.00	62.00	6.00
110303700	-	-	-	3.700	0.14567	20.00	62.00	6.00
110303800	-	-	-	3.800	0.14961	24.00	66.00	6.00
110303900	-	-	-	3.900	0.15354	24.00	66.00	6.00
110303970	5/32	-	-	3.970	0.15625	24.00	66.00	6.00
110304000	-	-	-	4.000	0.15748	24.00	66.00	6.00
110304090	-	20	-	4.089	0.16100	24.00	66.00	6.00
110304100	-	-	-	4.100	0.16142	24.00	66.00	6.00
110304200	-	-	-	4.200	0.16535	24.00	66.00	6.00
110304300	-	-	-	4.300	0.16929	24.00	66.00	6.00
110304370	11/64	-	-	4.370	0.17188	24.00	66.00	6.00
110304400	-	-	-	4.400	0.17323	24.00	66.00	6.00
110304500	-	-	-	4.500	0.17717	24.00	66.00	6.00

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked



CONTINUED

P				M			K	N		S		H					
Steel				Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel					
Low	Medium	High	Alloy Steel	300	400	17-4 PH		Aluminum	Nickel Alloy	Titanium							
1010	1035	1065	4140							6061	Inconel	6Al4V	~35	35-45	45-50	50-70	
1018	1045		4340				7075	Casting	(30 HRC)	HRC	HRC	HRC	HRC				

○ Good ⊗ Best

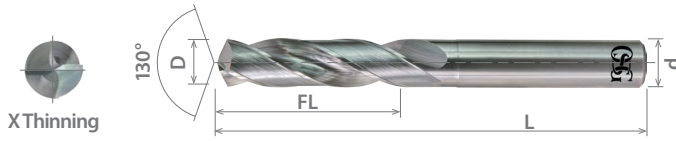


# HY-PRO® CARB ALD

Performance Carbide Drills for Non-Ferrous Materials

## List HP343 (Continued)

HY-PRO CARB ALD-3D



SPEED FEED	CARBIDE	BR	2 FLUTE	STUB	30°	SHANK	PACKED
11						h6	1 PIECE

Cutting Diameter Tolerance (m7)		
Size (mm)	mm	inch
1 ≤ D ≤ 3	+0.002 / +0.012	+0.0001 / +0.0005
3 < D ≤ 6	+0.004 / +0.016	+0.0002 / +0.0006
6 < D ≤ 10	+0.006 / +0.021	+0.0002 / +0.0008
10 < D ≤ 18	+0.007 / +0.025	+0.0003 / +0.0010

EDP Number		Diameter (D)					Flute Length	Overall Length	Shank Diameter
		Fractional Size	Wire Gage	Letter Size	mm	Inch	FL (mm)	L (mm)	d (mm)
110304600	●	-	-	-	4.600	0.18110	24.00	66.00	6.00
110304650	○	-	-	-	4.650	0.18307	24.00	66.00	6.00
110304700	●	-	-	-	4.700	0.18504	24.00	66.00	6.00
110304760	●	3/16	-	-	4.760	0.18750	28.00	66.00	6.00
110304800	●	-	-	-	4.800	0.18898	28.00	66.00	6.00
110304900	●	-	-	-	4.900	0.19291	28.00	66.00	6.00
110305000	●	-	-	-	5.000	0.19685	28.00	66.00	6.00
110305100	●	-	-	-	5.100	0.20079	28.00	66.00	6.00
110305160	●	13/64	-	-	5.160	0.20313	28.00	66.00	6.00
110305200	●	-	-	-	5.200	0.20472	28.00	66.00	6.00
110305300	●	-	-	-	5.300	0.20866	28.00	66.00	6.00
110305400	●	-	-	-	5.400	0.21260	28.00	66.00	6.00
110305410	●	-	3	-	5.410	0.21300	28.00	66.00	6.00
110305500	●	-	-	-	5.500	0.21654	28.00	66.00	6.00
110305560	●	7/32	-	-	5.560	0.21875	28.00	66.00	6.00
110305600	●	-	-	-	5.600	0.22047	28.00	66.00	6.00
110305700	●	-	-	-	5.700	0.22441	28.00	66.00	6.00
110305800	●	-	-	-	5.800	0.22835	28.00	66.00	6.00
110305900	○	-	-	-	5.900	0.23228	28.00	66.00	6.00
110305950	●	15/64	-	-	5.950	0.23438	28.00	66.00	6.00
110306000	●	-	-	-	6.000	0.23622	28.00	66.00	6.00
110306100	●	-	-	-	6.100	0.24016	34.00	79.00	8.00
110306200	●	-	-	-	6.200	0.24409	34.00	79.00	8.00
110306300	●	-	-	-	6.300	0.24803	34.00	79.00	8.00
110306350	●	1/4	-	E	6.350	0.25000	34.00	79.00	8.00
110306400	●	-	-	-	6.400	0.25197	34.00	79.00	8.00
110306500	●	-	-	-	6.500	0.25591	34.00	79.00	8.00
110306530	●	-	-	F	6.528	0.25700	34.00	79.00	8.00
110306600	●	-	-	-	6.600	0.25984	34.00	79.00	8.00
110306700	●	-	-	-	6.700	0.26378	34.00	79.00	8.00
110306750	●	17/64	-	-	6.750	0.26563	34.00	79.00	8.00
110306800	●	-	-	-	6.800	0.26772	34.00	79.00	8.00
110306900	●	-	-	-	6.900	0.27165	34.00	79.00	8.00
110307000	●	-	-	-	7.000	0.27559	34.00	79.00	8.00
110307100	●	-	-	-	7.100	0.27953	41.00	79.00	8.00
110307140	●	9/32	-	-	7.140	0.28125	41.00	79.00	8.00
110307200	●	-	-	-	7.200	0.28346	41.00	79.00	8.00
110307300	●	-	-	-	7.300	0.28740	41.00	79.00	8.00
110307400	●	-	-	-	7.400	0.29134	41.00	79.00	8.00
110307500	●	-	-	-	7.500	0.29528	41.00	79.00	8.00
110307540	○	19/64	-	-	7.540	0.29688	41.00	79.00	8.00
110307600	●	-	-	-	7.600	0.29921	41.00	79.00	8.00
110307700	○	-	-	-	7.700	0.30315	41.00	79.00	8.00
110307800	●	-	-	-	7.800	0.30709	41.00	79.00	8.00
110307900	●	-	-	-	7.900	0.31102	41.00	79.00	8.00
110307940	●	5/16	-	-	7.940	0.31250	41.00	79.00	8.00
110308000	●	-	-	-	8.000	0.31496	41.00	79.00	8.00
110308100	●	-	-	-	8.100	0.31890	47.00	89.00	10.00
110308200	○	-	-	-	8.200	0.32283	47.00	89.00	10.00
110308300	○	-	-	-	8.300	0.32677	47.00	89.00	10.00
110308330	●	21/64	-	-	8.330	0.32813	47.00	89.00	10.00
110308400	○	-	-	-	8.400	0.33071	47.00	89.00	10.00
110308430	●	-	-	Q	8.433	0.33200	47.00	89.00	10.00
110308500	●	-	-	-	8.500	0.33465	47.00	89.00	10.00
110308600	●	-	-	-	8.600	0.33858	47.00	89.00	10.00
110308700	●	-	-	-	8.700	0.34252	47.00	89.00	10.00

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked



## List HP343 (Continued)

HY-PRO CARB ALD-3D

<b>SPEED FEED</b> 11	<b>CARBIDE</b>	<b>BR</b>	<b>2 FLUTE</b>	<b>STUB</b>	<b>30°</b>	<b>SHANK</b> h6	<b>PACKED</b> 1 PIECE
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EDP Number		Diameter (D)					Flute Length FL (mm)	Overall Length L (mm)	Shank Diameter d (mm)
		Fractional Size	Wire Gage	Letter Size	mm	Inch			
110308730	●	11/32	-	-	8.730	0.34375	47.00	89.00	10.00
110308800	●	-	-	-	8.800	0.34646	47.00	89.00	10.00
110308900	●	-	-	-	8.900	0.35039	47.00	89.00	10.00
110309000	●	-	-	-	9.000	0.35433	47.00	89.00	10.00
110309100	●	-	-	-	9.100	0.35827	47.00	89.00	10.00
110309130	○	23/64	-	-	9.130	0.35938	47.00	89.00	10.00
110309200	○	-	-	-	9.200	0.36220	47.00	89.00	10.00
110309250	○	-	-	-	9.250	0.36417	47.00	89.00	10.00
110309300	●	-	-	-	9.300	0.36614	47.00	89.00	10.00
110309400	●	-	-	-	9.400	0.37008	47.00	89.00	10.00
110309500	●	-	-	-	9.500	0.37402	47.00	89.00	10.00
110309520	●	3/8	-	-	9.520	0.37500	47.00	89.00	10.00
110309600	●	-	-	-	9.600	0.37795	47.00	89.00	10.00
110309700	○	-	-	-	9.700	0.38189	47.00	89.00	10.00
110309800	●	-	-	-	9.800	0.38583	47.00	89.00	10.00
110309900	○	-	-	-	9.900	0.38976	47.00	89.00	10.00
110309920	●	25/64	-	-	9.920	0.39063	47.00	89.00	10.00
110310000	●	-	-	-	10.000	0.39370	47.00	89.00	10.00
110310100	○	-	-	-	10.100	0.39764	55.00	102.00	12.00
110310200	●	-	-	-	10.200	0.40157	55.00	102.00	12.00
110310300	●	-	-	-	10.300	0.40551	55.00	102.00	12.00
110310320	●	13/32	-	-	10.320	0.40625	55.00	102.00	12.00
110310400	○	-	-	-	10.400	0.40945	55.00	102.00	12.00
110310500	●	-	-	-	10.500	0.41339	55.00	102.00	12.00
110310600	○	-	-	-	10.600	0.41732	55.00	102.00	12.00
110310700	●	-	-	-	10.700	0.42126	55.00	102.00	12.00
110310720	●	27/64	-	-	10.720	0.42188	55.00	102.00	12.00
110310800	○	-	-	-	10.800	0.42520	55.00	102.00	12.00
110310900	●	-	-	-	10.900	0.42913	55.00	102.00	12.00
110311000	●	-	-	-	11.000	0.43307	55.00	102.00	12.00
110311100	○	-	-	-	11.100	0.43701	55.00	102.00	12.00
110311110	●	7/16	-	-	11.110	0.43750	55.00	102.00	12.00
110311200	○	-	-	-	11.200	0.44094	55.00	102.00	12.00
110311300	○	-	-	-	11.300	0.44488	55.00	102.00	12.00
110311400	○	-	-	-	11.400	0.44882	55.00	102.00	12.00
110311500	○	-	-	-	11.500	0.45276	55.00	102.00	12.00
110311510	●	29/64	-	-	11.510	0.45313	55.00	102.00	12.00
110311600	○	-	-	-	11.600	0.45669	55.00	102.00	12.00
110311700	○	-	-	-	11.700	0.46063	55.00	102.00	12.00
110311800	○	-	-	-	11.800	0.46457	55.00	102.00	12.00
110311900	○	-	-	-	11.900	0.46850	55.00	102.00	12.00
110311910	○	15/32	-	-	11.910	0.46875	55.00	102.00	12.00
110312000	●	-	-	-	12.000	0.47244	55.00	102.00	12.00
110312100	○	-	-	-	12.100	0.47638	60.00	107.00	14.00
110312200	○	-	-	-	12.200	0.48031	60.00	107.00	14.00
110312300	○	31/64	-	-	12.300	0.48438	60.00	107.00	14.00
110312400	●	-	-	-	12.400	0.48819	60.00	107.00	14.00
110312500	●	-	-	-	12.500	0.49213	60.00	107.00	14.00
110312600	○	-	-	-	12.600	0.49606	60.00	107.00	14.00
110312700	●	1/2	-	-	12.700	0.50000	60.00	107.00	14.00

● Stocked ○ Available Upon Request; MOQ May Apply ▲ Globally Stocked



P					M			K	N		S		H			
Steel					Stainless Steel			Cast Iron	Non-Ferrous		HRSA		Hardened Steel			
Carbon Steel			Alloy Steel	Die Steel					Aluminum		Nickel Alloy	Titanium				
Low	Medium	High			4140 4340	300	400	17-4 PH	6061 7075	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
1010 1018	1035 1045	1065														
								⊙	⊙							

○ Good ⊙ Best

