

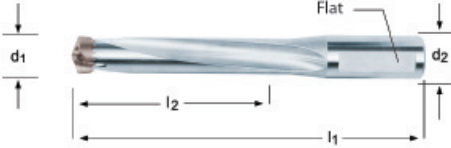


# Alro Industrial Supply

## Introducing the NEW Replaceable Head HYDRA-DRILL from Precision!



Offer Expires: 12-31-08



### Product Features:

- Solid Carbide 140° split point with sculptured cutting edge and TiAlN coating ensures optimum chip flow and longer life
- High-speed steel heavy duty wear-resistant body
- Coolant hole provides optimized coolant direction for chip evacuation and better tool life
- Two (2) screws and one (1) screwdriver are included with body

## HYDRA 3xD

d <sub>1</sub> Ø	d <sub>1</sub> Ø	d <sub>1</sub> dec.	l <sub>2</sub>	l <sub>1</sub>	d <sub>2</sub> Øh <sub>6</sub>	Body EDP #	Body Price	Head EDP #	Head Price
Inch	mm	Inch	mm	mm	Inch				
15/32	11.91	0.4688	44	105	5/8	46310052	167.40	46301430	58.80
	12.00	0.4724	44	105	5/8	46310052	167.40	46301636	58.80
31/64	12.30	0.4844	44	105	5/8	46310052	167.40	46301431	58.80
	12.50	0.4921	47	110	5/8	46310053	172.80	46301637	60.90
1/2	12.70	0.5000	47	110	5/8	46310053	172.80	46301432	60.90
	13.00	0.5118	47	110	5/8	46310054	172.80	46301638	60.90
33/64	13.10	0.5156	47	110	5/8	46310054	172.80	46301433	60.90
17/32	13.49	0.5312	47	110	5/8	46310054	172.80	46301434	60.90
	13.50	0.5315	51	115	3/4	46310055	178.20	46301639	63.00
35/64	13.89	0.5469	51	115	3/4	46310055	178.20	46301435	63.00
	14.00	0.5512	51	115	3/4	46310055	178.20	46301640	63.00
9/16	14.29	0.5625	51	115	3/4	46310055	178.20	46301436	63.00
	14.50	0.5709	51	115	3/4	46310055	178.20	46301645	63.00
37/64	14.68	0.5781	54	125	3/4	46310059	183.60	46301437	65.10
	15.00	0.5906	54	125	3/4	46310059	183.60	46301650	65.10
19/32	15.08	0.5938	54	125	3/4	46310059	183.60	46301438	65.10
39/64	15.48	0.6094	54	125	3/4	46310059	183.60	46301439	65.10
	15.50	0.6102	54	125	3/4	46310059	183.60	46301655	65.10
5/8	15.87	0.6250	58	130	3/4	46310063	189.00	46301440	67.20
	16.00	0.6300	58	130	3/4	46310063	189.00	46301660	67.20
	16.08	0.6330	58	130	3/4	46310063	189.00	46301797	67.20
41/64	16.27	0.6406	58	130	3/4	46310063	189.00	46301441	67.20
	16.30	0.6417	58	130	3/4	46310063	189.00	46301663	67.20
	16.50	0.6496	58	130	3/4	46310063	189.00	46301665	67.20
21/32	16.67	0.6563	61	135	3/4	46310067	194.40	46301442	69.30
	17.00	0.6693	61	135	3/4	46310067	194.40	46301670	69.30
43/64	17.06	0.6719	61	135	3/4	46310067	194.40	46301443	69.30
11/16	17.46	0.6875	61	135	3/4	46310067	194.40	46301444	69.30
	17.50	0.6890	61	135	3/4	46310067	194.40	46301675	69.30
	17.60	0.6929	65	140	3/4	46310071	199.80	46301676	70.35
45/64	17.86	0.7031	65	140	3/4	46310071	199.80	46301445	70.35
	18.00	0.7087	65	140	3/4	46310071	199.80	46301680	70.35
23/32	18.26	0.7188	65	140	3/4	46310071	199.80	46301446	70.35
	18.50	0.7283	65	140	3/4	46310071	199.80	46301685	70.35
47/64	18.65	0.7344	68	155	1"	46310075	205.20	46301447	73.50
	19.00	0.7480	68	155	1"	46310075	205.20	46301690	73.50
3/4	19.05	0.7500	68	155	1"	46310075	205.20	46301448	73.50
	19.25	0.7580	68	155	1"	46310075	205.20	46301799	73.50
	19.30	0.7600	68	155	1"	46310075	205.20	46301693	73.50
	19.35	0.7620	68	155	1"	46310075	205.20	46301798	73.50
49/64	19.45	0.7656	68	155	1"	46310075	205.20	46301449	73.50
	19.50	0.7677	68	155	1"	46310075	205.20	46301695	73.50

d <sub>1</sub> Ø	d <sub>1</sub> Ø	d <sub>1</sub> dec.	l <sub>2</sub>	l <sub>1</sub>	d <sub>2</sub> Øh <sub>6</sub>	Body EDP #	Body Price	Head EDP #	Head Price
Inch	mm	Inch	mm	mm	Inch				
25/32	19.84	0.7813	72	155	1"	46310079	210.60	46301450	75.60
	20.00	0.7874	72	155	1"	46310079	210.60	46301700	75.60
51/64	20.24	0.7969	72	155	1"	46310079	210.60	46301451	75.60
13/16	20.64	0.8125	75	155	1"	46310083	216.00	46301452	77.70
	21.00	0.8268	75	155	1"	46310083	216.00	46301710	77.70
53/64	21.03	0.8281	75	155	1"	46310083	216.00	46301453	77.70
27/32	21.43	0.8438	75	155	1"	46310083	216.00	46301454	77.70
	21.50	0.8465	75	155	1"	46310083	216.00	46301715	77.70
55/64	21.83	0.8594	79	160	1"	46310087	221.40	46301455	80.85
	22.00	0.8661	79	160	1"	46310087	221.40	46301720	80.85
7/8	22.22	0.8750	79	160	1"	46310087	221.40	46301456	80.85
	22.50	0.8858	79	160	1"	46310087	221.40	46301725	80.85
57/64	22.62	0.8906	79	160	1"	46310087	221.40	46301457	80.85
	23.00	0.9055	82	160	1"	46310088	226.80	46301726	84.00
29/32	23.02	0.9062	82	160	1"	46310088	226.80	46301458	84.00
59/64	23.42	0.9219	82	160	1"	46310088	226.80	46301459	84.00
15/16	23.81	0.9375	82	160	1"	46310089	232.20	46301460	84.11
	24.00	0.9449	86	160	1"	46310089	232.20	46301727	86.11
61/64	24.21	0.9531	86	170	1"	46310089	232.20	46301461	86.11
31/32	24.61	0.9687	86	170	1"	46310089	232.20	46301462	86.11
	25.00	0.9843	88	170	1.1/4	46310090	237.60	46301728	88.20
63/64	25.00	0.9844	88	170	1.1/4	46310090	237.60	46301463	88.20
1"	25.40	1.0000	88	170	1.1/4	46310090	237.60	46301464	88.20
	25.65	1.0100	88	170	1.1/4	46310090	237.60	46301729	88.20
1.1/64	25.80	1.0156	88	170	1.1/4	46310090	237.60	46301465	88.20
	26.00	1.0236	92	175	1.1/4	46310091	243.00	46301730	90.31
1.1/32	26.19	1.0312	92	175	1.1/4	46310091	243.00	46301466	90.31
1.3/64	26.59	1.0469	92	175	1.1/4	46310091	243.00	46301467	90.31
1.1/16	26.99	1.0625	94	175	1.1/4	46310092	248.40	46301468	92.40
	27.00	1.0630	94	175	1.1/4	46310092	248.40	46301731	92.40
1.5/64	27.38	1.0781	94	175	1.1/4	46310092	248.40	46301469	92.40
1.3/32	27.78	1.0937	94	175	1.1/4	46310092	248.40	46301470	92.40
	28.00	1.1024	97	180	1.1/4	46310049	259.20	46301732	94.51
1.7/64	28.18	1.1094	97	180	1.1/4	46310049	259.20	46301471	94.51
1.1/8	28.57	1.1250	97	180	1.1/4	46310049	259.20	46301472	94.51
1.9/64	28.97	1.1406	100	185	1.1/4	46310050	259.20	46301473	96.59
	29.00	1.1417	100	185	1.1/4	46310050	259.20	46301733	96.59
1.5/32	29.37	1.1562	100	185	1.1/4	46310050	259.20	46301474	96.59
1.11/64	29.77	1.1719	100	185	1.1/4	46310050	259.20	46301475	96.59
	30.00	1.1811	104	185	1.1/4	46310051	264.60	46301734	98.70
1.3/16	30.16	1.1875	104	185	1.1/4	46310051	264.60	46301476	98.70
	30.50	1.2008	104	185	1.1/4	46310051	264.60	46301735	98.70

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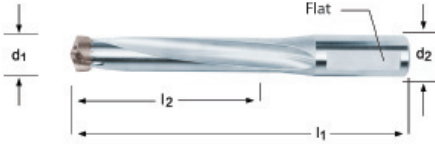


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## HYDRA 5xD

d <sub>1</sub> Ø	d <sub>1</sub> Ø	d <sub>1</sub> dec.	l <sub>2</sub>	l <sub>1</sub>	d <sub>2</sub> Øh <sub>6</sub>	Body EDP #	Body Price	Head EDP #	Head Price
Inch	mm	Inch	mm	mm	Inch				
15/32	11.91	0.4688	69	130	5/8	46310152	205.20	46301430	58.80
	12.00	0.4724	69	130	5/8	46310152	205.20	46301636	58.80
31/64	12.30	0.4844	69	130	5/8	46310152	205.20	46301431	58.80
	12.50	0.4921	74	140	5/8	46310153	210.60	46301637	60.90
1/2	12.70	0.5000	74	140	5/8	46310153	210.60	46301432	60.90
	13.00	0.5118	74	140	5/8	46310154	210.60	46301638	60.90
33/64	13.10	0.5156	74	140	5/8	46310154	210.60	46301433	60.90
17/32	13.49	0.5312	74	140	5/8	46310154	210.60	46301434	60.90
	13.50	0.5315	80	145	3/4	46310155	216.00	46301639	63.00
35/64	13.89	0.5469	80	145	3/4	46310155	216.00	46301435	63.00
	14.00	0.5512	80	145	3/4	46310155	216.00	46301640	63.00
9/16	14.29	0.5625	80	145	3/4	46310155	216.00	46301436	63.00
	14.50	0.5709	80	145	3/4	46310155	216.00	46301645	63.00
37/64	14.68	0.5781	85	155	3/4	46310159	221.40	46301437	65.10
	15.00	0.5906	85	155	3/4	46310159	221.40	46301650	65.10
19/32	15.08	0.5938	85	155	3/4	46310159	221.40	46301438	65.10
39/64	15.48	0.6094	85	155	3/4	46310159	221.40	46301439	65.10
	15.50	0.6102	85	155	3/4	46310159	221.40	46301655	65.10
5/8	15.87	0.6250	91	165	3/4	46310163	226.80	46301440	67.20
	16.00	0.6300	91	165	3/4	46310163	226.80	46301660	67.20
41/64	16.08	0.6330	91	165	3/4	46310163	226.80	46301797	67.20
	16.27	0.6406	91	165	3/4	46310163	226.80	46301441	67.20
	16.30	0.6417	91	165	3/4	46310163	226.80	46301663	67.20
	16.50	0.6496	91	165	3/4	46310163	226.80	46301665	67.20
21/32	16.67	0.6563	96	170	3/4	46310167	232.20	46301442	69.30
	17.00	0.6693	96	170	3/4	46310167	232.20	46301670	69.30
43/64	17.06	0.6719	96	170	3/4	46310167	232.20	46301443	69.30
11/16	17.46	0.6875	96	170	3/4	46310167	232.20	46301444	69.30
	17.50	0.6890	96	170	3/4	46310167	232.20	46301675	69.30
45/64	17.60	0.6929	102	175	3/4	46310171	237.60	46301676	70.35
	17.86	0.7031	102	175	3/4	46310171	237.60	46301445	70.35
	18.00	0.7087	102	175	3/4	46310171	237.60	46301680	70.35
23/32	18.26	0.7188	102	175	3/4	46310171	237.60	46301446	70.35
47/64	18.65	0.7344	107	190	1"	46310175	243.00	46301447	73.50
	19.00	0.7480	107	190	1"	46310175	243.00	46301690	73.50
3/4	19.05	0.7500	107	190	1"	46310175	243.00	46301448	73.50
	19.25	0.7580	107	190	1"	46310175	243.00	46301799	73.50
	19.30	0.7600	107	190	1"	46310175	243.00	46301693	73.50
	19.35	0.7620	107	190	1"	46310175	243.00	46301798	73.50
49/64	19.45	0.7656	107	190	1"	46310175	243.00	46301449	73.50
	19.50	0.7677	107	190	1"	46310175	243.00	46301695	73.50
25/32	19.84	0.7813	113	195	1"	46310179	248.40	46301450	75.60
	20.00	0.7874	113	195	1"	46310179	248.40	46301700	75.60
51/64	20.24	0.7969	113	195	1"	46310179	248.40	46301451	75.60

d <sub>1</sub> Ø	d <sub>1</sub> Ø	d <sub>1</sub> dec.	l <sub>2</sub>	l <sub>1</sub>	d <sub>2</sub> Øh <sub>6</sub>	Body EDP #	Body Price	Head EDP #	Head Price
Inch	mm	Inch	mm	mm	Inch				
13/16	20.64	0.8125	118	195	1"	46310183	253.80	46301452	77.70
	21.00	0.8268	118	195	1"	46310183	253.80	46301710	77.70
53/64	21.03	0.8281	118	195	1"	46310183	253.80	46301453	77.70
27/32	21.43	0.8438	118	195	1"	46310183	253.80	46301454	77.70
	21.50	0.8465	118	195	1"	46310183	253.80	46301715	77.70
55/64	21.83	0.8594	124	200	1"	46310187	259.20	46301455	80.85
	22.00	0.8661	124	200	1"	46310187	259.20	46301720	80.85
7/8	22.22	0.8750	124	200	1"	46310187	259.20	46301456	80.85
	22.50	0.8858	124	200	1"	46310187	259.20	46301725	80.85
57/64	22.62	0.8906	124	200	1"	46310187	259.20	46301457	80.85
	23.00	0.9055	129	210	1"	46310188	264.60	46301726	84.00
29/32	23.02	0.9062	129	210	1"	46310188	264.60	46301458	84.00
59/64	23.42	0.9219	129	210	1"	46310188	264.60	46301459	84.00
15/16	23.81	0.9375	135	220	1"	46310189	270.00	46301460	86.11
	24.00	0.9449	135	220	1"	46310189	270.00	46301727	86.11
61/64	24.21	0.9531	135	220	1"	46310189	270.00	46301461	86.11
31/32	24.61	0.9687	135	220	1"	46310189	270.00	46301462	86.11
	25.00	0.9843	140	225	1.1/4	46310190	275.40	46301728	88.20
63/64	25.00	0.9844	140	225	1.1/4	46310190	275.40	46301463	88.20
1"	25.40	1.0000	140	225	1.1/4	46310190	275.40	46301464	88.20
	25.65	1.0100	140	225	1.1/4	46310190	275.40	46301729	88.20
1.1/64	25.80	1.0156	140	225	1.1/4	46310190	275.40	46301465	88.20
	26.00	1.0236	146	230	1.1/4	46310191	286.20	46301730	90.31
1.1/32	26.19	1.0312	146	230	1.1/4	46310191	286.20	46301466	90.31
1.3/64	26.59	1.0469	146	230	1.1/4	46310191	286.20	46301467	90.31
1.1/16	26.99	1.0625	151	235	1.1/4	46310092	286.20	46301468	92.40
	27.00	1.0630	151	235	1.1/4	46310092	286.20	46301731	92.40
1.5/64	27.38	1.0781	151	235	1.1/4	46310092	286.20	46301469	92.40
1.3/32	27.78	1.0937	151	235	1.1/4	46310092	286.20	46301470	92.40
	28.00	1.1024	157	240	1.1/4	46310149	291.60	46301732	94.51
1.7/64	28.18	1.1094	157	240	1.1/4	46310149	291.60	46301471	94.51
1.1/8	28.57	1.1250	157	240	1.1/4	46310149	291.60	46301472	94.51
1.9/64	28.97	1.1406	162	245	1.1/4	46310150	297.00	46301473	96.59
	29.00	1.1417	162	245	1.1/4	46310150	297.00	46301733	96.59
1.5/32	29.37	1.1562	162	245	1.1/4	46310150	297.00	46301474	96.59
1.11/64	29.77	1.1719	162	245	1.1/4	46310150	297.00	46301475	96.59
	30.00	1.1811	167	255	1.1/4	46310151	302.40	46301734	98.70
1.3/16	30.16	1.1875	167	255	1.1/4	46310151	302.40	46301476	98.70
	30.50	1.2008	167	255	1.1/4	46310151	302.40	46301735	98.70

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