

H-COATED SOLID CARBIDE DREAM DRILLS

High Feed with Coolant Holes

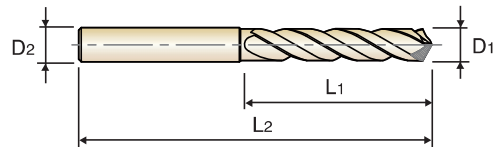
DGR493 | DGR496 | DGR495 | DGR497 SERIES

WORK MATERIAL		P						K					
		CARBON STEELS ALLOY STEELS			ALLOY STEELS			CAST IRON			DUCTILE CAST IRON		
HARDNESS		~ HRC20			HRC20 ~ 35								
DRILLING SPEED		329 ft/min			247 ft/min			329 ft/min			264 ft/min		
DIAMETER		RPM	IPR		RPM	IPR		RPM	IPR		RPM	IPR	
Metric(mm)	Decimal		Min	Max		Min	Max		Min	Max		Min	Max
5.0	.1969	6370	.0079	.0098	4780	.0079	.0098	6370	.0091	.0118	5100	.0079	.0098
6.0	.2362	5310	.0094	.0118	3980	.0094	.0118	5310	.0106	.0142	4250	.0094	.0118
7.0	.2756	4550	.0110	.0138	3420	.0110	.0138	4550	.0126	.0165	3640	.0110	.0138
8.0	.3150	3980	.0126	.0157	2990	.0126	.0157	3980	.0142	.0189	3190	.0126	.0157
9.0	.3543	3540	.0142	.0177	2660	.0142	.0177	3540	.0161	.0213	2840	.0142	.0177
10.0	.3937	3190	.0157	.0197	2390	.0157	.0197	3190	.0177	.0236	2550	.0157	.0197
12.0	.4724	2660	.0189	.0236	2000	.0189	.0213	2660	.0213	.0283	2130	.0189	.0236
14.0	.5512	2280	.0220	.0276	1710	.0220	.0248	2280	.0248	.0331	1820	.0220	.0276
16.0	.6299	1990	.0220	.0283	1500	.0220	.0252	1990	.0252	.0315	1600	.0220	.0283
18.0	.7087	1770	.0248	.0319	1330	.0248	.0283	1770	.0283	.0354	1420	.0248	.0319
20.0	.7874	1600	.0276	.0346	1190	.0268	.0319	1600	.0315	.0386	1280	.0276	.0354

RPM = rev./min.
IPR = inch/rev.

H-COATED SOLID CARBIDE DREAM DRILLS High Feed with Coolant Holes (5XD)

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- ▶ Higher productivity due to 1.5 to 2 times faster feeding speed than 2-flute drill
- ▶ Multi-Layer coating delivers much better productivity and reliability
- ▶ Self centering and chip breaking by R-thinning and coolant holes



5 × D



Unit : mm

EDP No.	Drill Diameter			Shank Diameter D2	Flute Length L1	Overall Length L2
	Metric	Inch	Decimal			
H-coating	D1			D2	L1	L2
DGR495050	5.00		.1969	6	44	82
DGR495051	5.10		.2008	6	44	82
DGR497013	5.16	13/64	.2031	1/4	44	82
DGR495052	5.20		.2047	6	44	82
DGR495053	5.30		.2087	6	44	82
DGR495054	5.40		.2126	6	44	82
DGR497103	5.41	#3	.2130	1/4	44	82
DGR495055	5.50		.2165	6	44	82
DGR497014	5.56	7/32	.2188	1/4	44	82
DGR495056	5.60		.2205	6	44	82
DGR497102	5.61	#2	.2210	1/4	44	82
DGR495057	5.70		.2244	6	44	82
DGR497101	5.79	#1	.2280	1/4	44	82
DGR495058	5.80		.2283	6	44	82
DGR495059	5.90		.2323	6	44	82
DGR497015	5.95	15/64	.2344	1/4	44	82
DGR495060	6.00		.2362	6	44	82
DGR495061	6.10		.2402	8	53	91
DGR495062	6.20		.2441	8	53	91
DGR495063	6.30		.2480	8	53	91
DGR497016	6.35	1/4	.2500	1/4	53	91
DGR495064	6.40		.2520	8	53	91
DGR495065	6.50		.2559	8	53	91
DGR497206	6.53	F	.2570	5/16	53	91
DGR495066	6.60		.2598	8	53	91
DGR495067	6.70		.2638	8	53	91

EDP No.	Drill Diameter			Shank Diameter D2	Flute Length L1	Overall Length L2
	Metric	Inch	Decimal			
H-coating	D1			D2	L1	L2
DGR497017	6.75	17/64	.2656	5/16	53	91
DGR495068	6.80		.2677	8	53	91
DGR495069	6.90		.2717	8	53	91
DGR497209	6.91	I	.2720	5/16	53	91
DGR495070	7.00		.2756	8	53	91
DGR495071	7.10		.2795	8	53	91
DGR497018	7.14	9/32	.2813	5/16	53	91
DGR495072	7.20		.2835	8	53	91
DGR495073	7.30		.2874	8	53	91
DGR495074	7.40		.2913	8	53	91
DGR495075	7.50		.2953	8	53	91
DGR497019	7.54	19/64	.2969	5/16	53	91
DGR495076	7.60		.2992	8	53	91
DGR495077	7.70		.3031	8	53	91
DGR495078	7.80		.3071	8	53	91
DGR495079	7.90		.3110	8	53	91
DGR497020	7.94	5/16	.3125	5/16	53	91
DGR495080	8.00		.3150	8	53	91
DGR495081	8.10		.3189	10	61	103
DGR495082	8.20	P	.3228	10	61	103
DGR495083	8.30		.3268	10	61	103
DGR497021	8.33	21/64	.3281	3/8	61	103
DGR495084	8.40		.3307	10	61	103
DGR497217	8.43	Q	.3320	3/8	61	103
DGR495085	8.50		.3346	10	61	103
DGR495086	8.60		.3386	10	61	103

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◎ : Excellent ○ : Good

P				H	M	K	N				S
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Stainless Steels	Cast Iron	Aluminum	Copper	Bronze	CFRP	Titanium
~HB225	HB225~325	HRC30~45	HRC45~55	HRC55~							
◎	◎	○				◎					

H-COATED SOLID CARBIDE DREAM DRILLS

High Feed with Coolant Holes (5XD)

DGR495 SERIES
DGR497 SERIES

- ▶ Drilling for Carbon Steels, Alloy Steels(-HRC35) and Cast Iron
- ▶ Higher productivity due to 1.5 to 2 times faster feeding speed than 2-flute drill
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- ▶ Self centering and chip breaking by R-thinning and coolant holes



5 × D

Unit : mm

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Inch	Decimal			
H-coating	D1			D2	L1	L2
DGR495087	8.70		.3425	10	61	103
DGR497022	8.73	11/32	.3437	3/8	61	103
DGR495088	8.80		.3465	10	61	103
DGR495089	8.90		.3504	10	61	103
DGR495090	9.00		.3543	10	61	103
DGR495091	9.10		.3583	10	61	103
DGR497023	9.13	23/64	.3594	3/8	61	103
DGR495092	9.20		.3622	10	61	103
DGR495093	9.30		.3661	10	61	103
DGR497221	9.35	U	.3680	3/8	61	103
DGR495094	9.40		.3701	10	61	103
DGR495095	9.50		.3740	10	61	103
DGR497024	9.53	3/8	.3750	3/8	61	103
DGR495096	9.60		.3780	10	61	103
DGR495097	9.70		.3819	10	61	103
DGR495098	9.80	W	.3858	10	61	103
DGR495099	9.90		.3898	10	61	103
DGR497025	9.92	25/64	.3906	7/16	61	103
DGR495100	10.00		.3937	10	61	103
DGR495101	10.10		.3976	12	71	118
DGR495102	10.20		.4016	12	71	118
DGR495103	10.30		.4055	12	71	118

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Inch	Decimal			
H-coating	D1			D2	L1	L2
DGR497026	10.32	13/32	.4063	7/16	71	118
DGR495104	10.40		.4094	12	71	118
DGR495105	10.50		.4134	12	71	118
DGR495106	10.60		.4173	12	71	118
DGR495107	10.70		.4213	12	71	118
DGR497027	10.72	27/64	.4219	7/16	71	118
DGR495108	10.80		.4252	12	71	118
DGR495109	10.90		.4291	12	71	118
DGR495110	11.00		.4331	12	71	118
DGR495111	11.10		.4370	12	71	118
DGR497028	11.11	7/16	.4375	7/16	71	118
DGR495112	11.20		.4409	12	71	118
DGR495113	11.30		.4449	12	71	118
DGR495114	11.40		.4488	12	71	118
DGR495115	11.50		.4528	12	71	118
DGR497029	11.51	29/64	.4531	1/2	71	118
DGR495116	11.60		.4567	12	71	118
DGR495117	11.70		.4606	12	71	118
DGR495118	11.80		.4646	12	71	118
DGR495119	11.90		.4685	12	71	118
DGR497030	11.91	15/32	.4688	1/2	71	118
DGR495120	12.00		.4724	12	71	118

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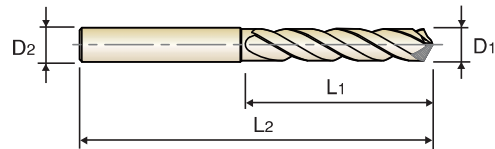
P				H	M	K	N				S
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Stainless Steels	Cast Iron	Aluminum	Copper	Bronze	CFRP	Titanium
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EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Inch	Decimal			
H-coating	D1			D2	L1	L2
DGR495121	12.10		.4764	14	77	124
DGR495122	12.20		.4803	14	77	124
DGR495123	12.30		.4843	14	77	124
DGR497031	12.30	31/64	.4844	1/2	77	124
DGR495124	12.40		.4882	14	77	124
DGR495125	12.50		.4921	14	77	124
DGR495126	12.60		.4961	14	77	124
DGR497032	12.70	1/2	.5000	1/2	77	124
DGR495127	12.70		.5000	14	77	124
DGR495128	12.80		.5039	14	77	124
DGR495129	12.90		.5079	14	77	124
DGR495130	13.00		.5118	14	77	124
DGR495131	13.10	33/64	.5156	14	77	124
DGR495132	13.20		.5197	14	77	124
DGR495133	13.30		.5236	14	77	124
DGR495134	13.40		.5276	14	77	124
DGR497034	13.49	17/32	.5312	9/16	77	124
DGR495135	13.50		.5315	14	77	124
DGR495136	13.60		.5354	14	77	124
DGR495137	13.70		.5394	14	77	124
DGR495138	13.80		.5433	14	77	124
DGR497035	13.89	35/64	.5469	9/16	77	124

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Inch	Decimal			
H-coating	D1			D2	L1	L2
DGR495139	13.90		.5472	14	77	124
DGR495140	14.00		.5512	14	77	124
DGR495141	14.10		.5551	16	83	133
DGR495142	14.20		.5591	16	83	133
DGR497036	14.29	9/16	.5625	9/16	83	133
DGR495143	14.30		.5630	16	83	133
DGR495144	14.40		.5669	16	83	133
DGR495145	14.50		.5709	16	83	133
DGR495146	14.60		.5748	16	83	133
DGR497037	14.68	37/64	.5781	5/8	83	133
DGR495147	14.70		.5787	16	83	133
DGR495148	14.80		.5827	16	83	133
DGR495149	14.90		.5866	16	83	133
DGR495150	15.00		.5906	16	83	133
DGR497038	15.08	19/32	.5938	5/8	83	133
DGR495151	15.10		.5945	16	83	133
DGR495152	15.20		.5984	16	83	133
DGR495153	15.30		.6024	16	83	133
DGR495154	15.40		.6063	16	83	133
DGR497039	15.48	39/64	.6094	5/8	83	133
DGR495155	15.50		.6102	16	83	133
DGR495156	15.60		.6142	16	83	133

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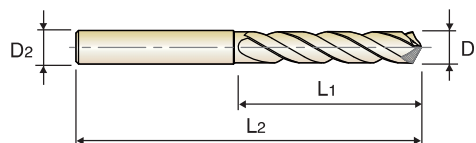
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	Metric	Inch	Decimal			
H-coating	D1			D2	L1	L2
DGR495157	15.70		.6181	16	83	133
DGR495158	15.80		.6220	16	83	133
DGR497040	15.88	5/8	.6250	5/8	83	133
DGR495159	15.90		.6260	16	83	133
DGR495160	16.00		.6299	16	83	133
DGR495161	16.10		.6339	18	93	143
DGR497041	16.27	41/64	.6406	11/16	93	143
DGR495165	16.50		.6496	18	93	143
DGR497042	16.67	21/32	.6563	11/16	93	143
DGR495170	17.00		.6693	18	93	143
DGR497043	17.07	43/64	.6719	11/16	93	143

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Inch	Decimal			
H-coating	D1			D2	L1	L2
DGR497044	17.46	11/16	.6875	11/16	93	143
DGR495175	17.50		.6890	18	93	143
DGR497045	17.86	45/64	.7031	3/4	93	143
DGR495180	18.00		.7087	18	93	143
DGR497046	18.26	23/32	.7188	3/4	101	153
DGR495185	18.50		.7283	20	101	153
DGR497047	18.65	47/64	.7344	3/4	101	153
DGR495190	19.00		.7480	20	101	153
DGR497048	19.05	3/4	.7500	3/4	101	153
DGR495195	19.50		.7677	20	101	153
DGR495200	20.00		.7874	20	101	153

◎ : Excellent ○ : Good

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◎	◎	○				◎					