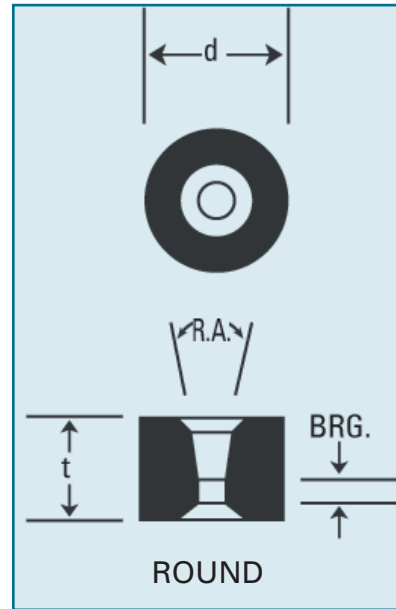


# Poly-Di® Polycrystalline Diamond Dies

INCHES / SPECIFICATIONS

## CORE DIMENSIONS

INCHES								
ADDMA NO.	MFG. NO.	GRAIN SIZE CLASS			NIB FEATURE	THERMAL STABILITY IN AIR	CORE DIM.	
		U 0-2µ	F 3-10µ	M 11-29µ			d	t
D-6	WD705	<b>F</b>	<b>M</b>	<b>C, E</b>	1	700°C	.098	.039
D-6	WD805	<b>F</b>	<b>M</b>	<b>C, E</b>	2	1000°C	.098	.039
D-12	WD710	<b>F</b>	<b>M</b>	<b>C, E</b>	1	700°C	.126	.059
D-12	WD810	<b>F</b>	<b>M</b>	<b>C, E</b>	2	1000°C	.126	.059
D-12	WD910	<b>F</b>	S, M	<b>C, E</b>	3	700°C	.059	.059
D-15	WD715	<b>F</b>	<b>M</b>	<b>C, E</b>	1	700°C	.205	.098
D-15	WD815	<b>F</b>	<b>M</b>	<b>C, E</b>	2	1000°C	.205	.098
D-15	WD915	<b>F</b>	S, M	<b>C, E</b>	3	700°C	.157	.091
D-18	WD720	<b>F</b>	<b>M</b>	<b>C, E</b>	1	700°C	.205	.138
D-18	WD820	<b>F</b>	<b>M</b>	<b>C, E</b>	2	1000°C	.205	.138
D-18	WD920	<b>F</b>	S, M	<b>C, E</b>	3	700°C	.157	.114
D-21	WD925	-	S, M	<b>C, E</b>	3	700°C	.276	.157
D-24	WD930	-	S, M	<b>C, E</b>	3	700°C	.276	.209
D-27	WD940	-	<b>M</b>	<b>C, E</b>	3	700°C	.343	.295
D-27	WD945	-	<b>M</b>	<b>C, E</b>	3	700°C	.512	.354
D-30	WD950	-	<b>M</b>	<b>C, E</b>	3	700°C	.512	.472
D-33	WD960	-	-	<b>C, E</b>	3	650°C	.630	.630
D-36	WD970	-	-	<b>E</b>	3	650°C	.748	.748
D-36	WD975	-	-	<b>E</b>	3	650°C	.984	.787
D-36	WD980	-	-	<b>E</b>	3	650°C	1.181	.866
D-36	WD990	-	-	<b>E</b>	3	650°C	1.575	.984
D-36	WD995	-	-	<b>E</b>	3	650°C	1.772	1.063



### Nib Features:

1. WD700 Series diamond core is self-supported, metal-filled and thermally stable to 700°C.
2. WD800 Series is thermally stable to 1000°C, metal-absent and is self-supported.
3. WD900 Series diamond core is round, metal-filled, has a tungsten carbide support ring and is thermally stable to 650°C or 700°C.

Product designations should include manufacturer's number and grain size, i.e., WD705F, WD915C. Readily available die blanks are shown in bold print. Please check availability of other products.

## MAXIMUM RECOMMENDED HOLE SIZE RANGE\*\*

INCHES																
ADDMA NO.	MFG. NO.	BEARING PERCENTAGE (BRG.)						REDUCTION ANGLE (R.A.)								
		8	12	10% 16	20	24	8	12	30% 16	20	24	8	12	50% 16	20	24
D-6	WD705	.018	.026	.033	.040	.047	.016	.021	.026	.031	.034	.014	.018	.022	.025	.027
D-6	WD805	.018	.026	.033	.040	.047	.016	.021	.026	.031	.034	.014	.018	.022	.025	.027
D-12	WD710	.029	.042	.054	.066	.077	.025	.035	.043	.050	.056	.023	.030	.036	.040	.044
D-12	WD810	.029	.042	.054	.066	.077	.025	.035	.043	.050	.056	.023	.030	.036	.040	.044
D-12	WD910	.028	.035	.035	.035	.035	.025	.034	.035	.035	.035	.022	.029	.035	.035	.035
D-15	WD715	.052	.076	.098	.119	.139	.046	.063	.078	.090	.101	.041	.054	.064	.073	.080
D-15	WD815	.052	.076	.098	.119	.139	.046	.063	.078	.090	.101	.041	.054	.064	.073	.080
D-15	WD915	.047	.068	.088	.107	.118	.041	.057	.070	.082	.092	.037	.049	.058	.066	.072
D-18	WD720	.072	.105	.135	.152	.152	.063	.087	.108	.125	.140	.056	.075	.089	.101	.111
D-18	WD820	.072	.105	.135	.152	.152	.063	.087	.108	.125	.140	.056	.075	.089	.101	.111
D-18	WD920	.059	.086	.111	.115	.115	.052	.071	.088	.103	.115	.046	.061	.073	.083	.091
D-21	WD925	.081	.118	.152	.185	.210	.071	.098	.121	.141	.158	.064	.084	.100	.114	.125
D-24	WD930	.107	.155	.201	.204	.204	.094	.130	.160	.186	.204	.084	.111	.133	.150	.165
D-27	WD940	.151	.219	.261	.261	.261	.133	.183	.225	.261	.261	.118	.157	.187	.212	.232
D-27	WD945	.185	.269	.347	.386	.386	.163	.224	.276	.321	.361	.145	.192	.229	.260	.285
D-30	WD950	.245	.356	.373	.373	.373	.215	.297	.366	.373	.373	.192	.254	.304	.344	.373
D-33	WD960	.335	.467	.467	.467	.467	.295	.406	.467	.467	.467	.263	.348	.416	.467	.467
D-36	WD970	.412	.566	.566	.566	.566	.363	.500	.566	.566	.566	.324	.428	.511	.566	.566
D-36	WD975	.436	.634	.765	.765	.765	.383	.528	.652	.758	.765	.342	.453	.541	.612	.672
D-36	WD980	.484	.703	.909	.930	.930	.425	.586	.723	.841	.930	.380	.502	.600	.679	.745
D-36	WD990	.567	.823	1.065	1.261	1.261	.498	.687	.847	.985	1.107	.445	.589	.703	.796	.873
D-36	WD995	.614	.892	1.155	1.403	1.426	.540	.744	.918	1.068	1.199	.482	.638	.762	.862	.946

\*\*The above chart designates the maximum recommended hole size for the various polycrystalline cores assuming a given reduction angle, bearing length and 20.7% area of reduction.



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