

HIBBING FABRICATORS, INC.

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THICK TURRET TOOLING LIST

ROUND	ROUND CON'T	SQUARE	OVAL	RECTANGLE	SINGLE "D"	ISOSCELES TRAPEZOID
.040	.406	.050	.030 x .444	.040 x .200	.198 x .380	.150 x .170 x 7.6°
.042	.408	.060	.040 x .380	.040 x .240	.226 x .252	sharp corners
.046	.410	.072	.050 x .200	.040 x .300	.235 x .252	.410 x 1.094 x 10° w/.132
.050	.414	.080	.060 x .500	.040 x .470	.240 x .258	corner radii
.058	.423	.100	.060 x .750	.048 x .500	.256 x .276	.448 x .813 x 10° w/.132
.061	.426	.118	.062 x .125	.050 x .100	.261 x .286	corner radii
.062	.432	.125	.062 x .148	.055 x .180	.270 x .300	.449 x 1.149 x 10° w/.093
.063	.438	.130	.062 x .250	.050 x .250	.292 x .316	corner radii
.065	.439	.150	.062 x .325	.050 x .440	.350 x .382	.520 x .871 x 10° w/.083
.066	.442	.160	.062 x .375	.060 x .200	.350 x .390	corner radii
.068	.453	.172	.062 x .500	.060 x .300	.360 x .378	.560 x 1.200 x 10° w/.134
.070	.462	.180	.075 x 1.200	.062 x .350	.425 x .446	corner radii
.071	.469	.190	.082 x .125	.062 x .375	.475 x .500	.614 x 1.160 x 10° w/.187
.072	.474	.200	.090 x .375	.062 x .500	.479 x .508	corner radii
.074	.476	.220	.094 x .500	.062 x 1.000	.480 x .515	
.079	.478	.225	.094 x .694	.063 x 1.000	.560 x .595	HEXAGON
.080	.485	.250	.094 x .750	.064 x .250	.575 x .625	.169 flat to flat
.084	.490	.266	.094 x 1.000	.066 x .200	.588 x .625	.250 flat to flat
.086	.500	.268	.096 x .125	.070 x .180	.588 x .638	
.089	.469	.282	.096 x .250	.080 x .145	.595 x .635	INTERNAL KEYWAY
.094	.502	.306	.100 x .125	.080 x .300	.664 x .703	.380 dia. w/.035 deep
.096	.504	.300	.100 x .188	.080 x .350	.670 x .698	x .094 wide key
.097	.506	.312	.110 x .162	.080 x .420	.682 x .714	.475 dia. w/.035 deep
.098	.515	.320	.112 x .142	.090 x .190	.826 x .891	x .060 wide key
.099	.520	.330	.116 x .250	.090 x .220	.950 x 1.000	.490 dia. w/.040 deep
.100	.531	.360	.118 x .354	.090 x .250	1.000 x 1.094	x .060 wide key
.101	.537	.375	.120 x .288	.090 x .675	1.070 x 1.134	.491 dia w/.053 deep
.103	.555	.394	.120 x .394	.090 x .830	1.330 x 1.400	x .064 wide key
.104	.562	.438	.125 x .141	.094 x .375	1.442 x 1.512	.500 dia. w/.050 deep
.106	.564	.470	.125 x .187	.094 x .500	1.592 x 1.640	x .060 wide key
.109	.570	.500	.125 x .188	.094 x .625		.875 dia. w/.133 deep
.112	.594	.515	.125 x .218	.094 x .675	DOUBLE "D"	x .120 wide key
.116	.625	.532	.125 x .250	.094 x .750	.210 x .260	1.203 dia. w/.036 deep
.117	.626	.562	.125 x .262	.094 x 1.000	.275 x .325	x .180 wide key
.118	.635	.600	.125 x .312	.100 x .200	.340 x .382	1.500 dia. 4-way w/.125
.119	.645	.625	.125 x .375	.100 x .220	.385 x .469	deep x .250 wide keys
.120	.650	.650	.125 x .500	.100 x .250	.390 x .420	
.121	.656	.688	.128 x .156	.100 x .375	.438 x .500	CLUSTER
.123	.672	.707	.128 x .312	.100 x .400	.450 x .500	.075 dia. ro. 4-hole
.125	.688	.750	.130 x .187	.100 x .440	.450 x .510	(.300 x .400) bc
.128	.700	.755	.130 x .190	.100 x .450	.500 x .562	.094 dia. ro. 9-hole
.129	.703	.780	.130 x .232	.100 x .500	.516 x .555	(.216 x .250) bc
.130	.710	.825	.130 x .330	.100 x .520	.538 x .598	.125 sq. 4-hole
.132	.718	.830	.132 x .250	.100 x .750	.550 x .625	(.250 x 250) bc
.134	.736	.840	.132 x .350	.100 x 1.000	.588 x .625	.156 dia. ro. 4-hole
.136	.750	.875	.134 x .198	.100 x 1.200	.625 x .750	(.326 x .376) bc
.137	.751	.900	.135 x .156	.100 x 1.240	.636 x .760	.156 dia. ro. 4-hole
.138	.755	.968	.136 x .156	.100 x 1.500	.640 x .750	(.250 x .375) bc
.141	.762	1.000	.136 x .250	.100 x 1.980	.641 x .765	.156 dia. ro. 9-hole
.142	.770	1.175	.138 x .218	.100 x 2.500	.658 x .722	(.250 x .250) bc
.144	.781	1.250	.138 x .316	.100 x 3.000	.660 x .750	.157 dia. ro. 6-hole
.145	.782	1.400	.140 x .250	.100 x 3.400	.700 x .812	(.281 x .407) bc
.147	.789	2.000	.140 x .265	.100 x 3.500	.770 x .875	.187 dia. ro. 4-hole
.148	.801	2.300 w/.625 x 45°	.140 x .274	.110 x .900	.812 x .890	(.375 x .375) bc
.150	.802	chamfers (4x)	.141 x .156	.116 x .500	.840 x .875	.218 dia. ro. 4-hole
.151	.806		.144 x .375	.116 x .625	1.000 x 1.188	(.375 x .375) bc
.152	.812	SQUARE WITH 4	.147 x .172	.116 x .700	1.118 x 1.378	.244 dia. ro. in-line 4-hole
.153	.825	CORNER RADII	.148 x .168	.116 x 1.000	1.126 x 1.374	(.250 spacing) bc
.156	.844	.276 w/.024 rad	.148 x .200	.118 x .354	1.525 x 1.640	.250 sq. 4-hole
.157	.851	.279 w/.024 rad	.150 x .350	.118 x .551		(.624 x .624) bc
.158	.866	.281 w/.024 rad	.151 x .350	.120 x .250	QUAD-D	.250 Hexagon 4-hole
.160	.875	.300 w/.062 rad	.156 x .188	.120 x .480	2.300 x 2.480	(.540 x .620) bc

.161	.890	.500 w/.100 rad	.156 x .250	.120 x .640	3.110 x 3.340	.118 x .551 rect 2-hole
.162	.908	.505 w/.062 rad	.156 x .312	.125 x .250		(.314 spacing) bc
.164	.938	.550 w/.062 rad	.156 x .395	.125 x .262		.244 dia. in-line 5-hole
.165	.953	.600 w/.080 rad	.156 x .406	.125 x .290		(.590 spacing) bc
.167	.969	.625 w/.031 rad	.156 x .500	.125 x .375		
.168	.980	.625 w/.063 rad	.156 x .630	.125 x .500		KNOCKOUT (K-O)
.171	1.000	.650 w/.060 rad	.156 X .656	.125 x .938		.843 dia. actual
.172	1.005	.700 w/.125 rad	.156 x .750	.125 x 1.000		1.071 dia. actual
.172	1.012	.750 w/.163 rad	.156 x 1.000	.125 x 1.250		
.174	1.032	.960 w/.131 rad	.156 x 1.225	.140 x .275		LOUVER
.177	1.062	1.171 w/.064 rad	.160 x .280	.140 x .450		.475 w x .310 h x 2.000
.178	1.072	1.220 w/.030 rad	.160 x .345	.140 x .750		long for .050 material
.182	1.094		.161 x .280	.150 x .200		.500 w x .310 h x 3.500
.185	1.125		.164 x .215	.150 x .410		long for .075 material
.187	1.156		.166 x .215	.156 x .375		
.188	1.188		.166 x .312	.160 x .624		ALPHA/NUMERIC
.189	1.200		.166 x .478	.170 x .500		STAMPING
.190	1.213		.170 x .354	.172 x .231		.250 long alpha "dash"
.191	1.250		.170 x .400	.178 x .640		.380 dia. "ground" symbol
.192	1.266		.172 x .250	.178 x 1.000		.460 dia x .220
.193	1.300		.172 x .272	.184 x .538		"equal potential" symbol
.194	1.328		.172 x .312	.184 x .750		.500 dia. "ground" symbol
.195	1.344		.172 x .380	.188 x 1.290		.500 l x .250 w "arrow"
.196	1.375		.174 x .280	.200 x .315		1.000 long score
.197	1.408		.178 x .225	.200 x .500		1.250 long score
.198	1.425		.180 x .380	.200 x .750		
.199	1.438		.182 x .250	.200 x 1.000		
.200	1.500		.184 x .215	.200 x 1.200		
.202	1.525		.188 x .250	.200 x 1.980		
.204	1.532		.188 x .262	.200 x 2.500		
.205	1.550		.188 x .282	.200 x 3.000		
.209	1.562		.188 x .312	.200 x 3.400		
.210	1.580		.188 x .500	.220 x .438		
.211	1.610		.188 x 1.000	.225 x .550		
.212	1.625		.190 x .312	.240 x .400		
.214	1.635		.190 x .500	.250 x .312		
.216	1.695		.194 x .250	.250 x .450		
.219	1.730		.198 x .236	.250 x 1.000		
.220	1.750		.198 x .276	.262 x .592		
.222	1.751		.198 x .315	.270 x 1.002		
.224	1.756		.198 x .394	.280 x .590		
.228	1.782		.200 x .354	.282 x .375		
.229	1.795		.200 x .380	.290 x .508		
.231	1.800		.200 x .400	.312 x 1.046		
.234	1.875		.200 x .500	.312 x 1.046		
.235	2.000		.200 x .590	.352 x .747		
.236	1.312		.202 x .314	.365 x 1.000		
.238	1.406		.204 x .364	.375 x 1.000		
.240	1.656		.204 x .500	.375 x 1.050		
.241	2.032		.218 x .375	.375 x 1.250		
.242	2.062		.218 x .394	.377 x 1.377		
.243	2.121		.218 x .500	.390 x 1.000		
.246	2.156		.219 x 1.000	.400 x .475		
.250	2.250		.220 x .330	.400 x .760		
.251	2.270		.220 x .380	.415 x .540		
.252	2.300		.230 x .605	.450 x .530		
.254	2.312		.236 x .315	.470 x 1.000		
.257	2.376		.236 x .344	.478 x .724		
.258	2.441		.240 x .285	.485 x .510		
.260	2.465		.240 x .400	.494 x 1.084		
.262	2.500		.250 x .312	.500 x 1.000		
.266	2.520		.250 x .375	.508 x .756		
.267	2.625		.250 x .410	.560 x .950		
.268	2.678		.250 x .450	.650 x .718		
.272	2.750		.250 x .480	.665 x .755		
.274	2.880		.250 x .500	.670 x .780		
.278	3.000		.250 x 1.000	.670 x .810		

.281	3.020		.250 x 2.000	.700 x 1.030		
.282	3.062		.260 x .320	.938 x 1.150		
.283	3.150		.260 x .540	.980 x 1.480		
.286	3.160		.266 x .406			
.292	3.250		.266 x 1.000	RECTANGLE WITH		
.296	3.304		.272 x .342	4 CORNER RADII		
.299	3.500		.276 x .750	.125 x .440 w/.040 rad		
.302	3.856		.278 x .406	.210 x .260 w/.064 rad		
.303	2.000		.280 x .500	.250 x .312 w/.031		
.308	3.750		.280 x .590	.250 x .562 w/.031		
.311	3.856		.280 x .562	.296 x .646 w/.048		
.312	4.125		.280 x .592	.300 x .500 w/.125		
.313	4.500		.281 x .500	.310 x .810 w/.115		
.314	3.750		.282 x .400	.312 x .562 w/.031		
.316	3.856		.284 x .312	.312 x .625 w/.031		
.317	4.125		.300 x .860	.344 x .700 w/.062		
.318	4.500		.304 x 1.000	.346 x 1.000 w/.125		
.320			.306 x 1.118	.352 x 1.000 w/.031		
.324			.312 x .400	.426 x .646 w/.070		
.325			.314 x .850	.428 x .503 w/.145		
.326			.315 x 1.100	.448 x .840 w/.062		
.330			.320 x 1.000	.482 x 1.000 w/.223		
.333			.322 x .750	.484 x .844 w/.060		
.335			.332 x .402	.500 x 1.000 w/.125		
.342			.346 x .750	.560 x .685 w/.040		
.346			.346 x .850	.590 x .600 w/.060		
.350			.375 x .500	.640 x .850 w/.030		
.360			.375 x .625	.676 x .993 w/.030		
.364			.375 x 1.000	.694 x 1.011 w/.030		
.370			.375 x 1.250	.700 x .844 w/.062		
.371			.375 x 1.500	.710 x .800 w/.125		
.375			.406 x 1.148	.720 x 1.035 w/.050		
.376			.420 x 1.050	.733 x 1.119 w/.255		
.378			.440 x .560	.776 x 1.000 w/.118		
.382			.475 x 1.000	.803 x 1.102 w/.062		
.386			.537 x 1.000	.850 x .900 w/.234		
.390			.560 x .728	.900 x .980 w/.234		
.392			.500 x 2.250	.910 x 1.077 w/.255		
.396				1.060 x 1.370 w/.060		
.398				1.015 x 1.304 w/.026		
.400				1.194 x 1.444 w/.060		
.401				2.040 x 2.820 w/.055		