

CARBIDE CUTTERS

SHANK $\phi 3.0$
12 pcs./pack **Single Cut** Assorted Set



28111 Titanium Coating	
Set (12 pieces) (Each code No. one piece-pack)	
21201	21245
21205	21261
21212	21262
21213	21265
21241	21272
21242	21275

SHANK $\phi 6.0$
8 pcs./pack **Double Cut** Assorted Set



28115 Titanium Coating	
Set (8 pieces) (Each code No. one piece-pack)	
21511	21535
21512	21536
21515	21541
21516	21546

SHANK $\phi 2.34$
12 pcs./pack **Single Cut** Assorted Set



28121	
Set (12 pieces) (Each code No. one piece-pack)	
23014	23132
23017	23133
23019	23161
23022	23162
23024	23163
23131	23166

12 pcs./pack **Double Cut** Assorted Set



28125	
Set (12 pieces) (Each code No. one piece-pack)	
23403	23415
23405	23416
23407	23504
23410	23507
23412	23553
23413	23573

SHANK $\phi 3.0$
12 pcs./pack **Single Cut** Assorted Set



28141	
Set (12 pieces) (Each code No. one piece-pack)	
24016	24301
24019	24303
24041	24305
24044	24402
24161	24452
24164	24454

12 pcs./pack **Double Cut** Assorted Set



28145	
Set (12 pieces) (Each code No. one piece-pack)	
24073	24362
24076	24364
24093	24366
24096	24504
24214	24532
24217	24534

SHANK $\phi 6.0$
8 pcs./pack **Single Cut** Assorted Set



28171	
Set (8 pieces) (Each code No. one piece-pack)	
26011	26111
26031	26131
26071	26151
26091	26171

8 pcs./pack **Single Cut** Assorted Set



28175	
Set (8 pieces) (Each code No. one piece-pack)	
26013	26113
26033	26133
26073	26153
26092	26172

SHANK $\phi 6.0$
8 pcs./pack **Double Cut** Assorted Set



28181	
Set (8 pieces) (Each code No. one piece-pack)	
26021	26121
26041	26141
26081	26161
26101	26181

8 pcs./pack **Double Cut** Assorted Set



28185	
Set (8 pieces) (Each code No. one piece-pack)	
26023	26123
26043	26143
26083	26163
26102	26182

SHANK $\phi 3.0$
12 pcs./pack **Alloy Cut** Assorted Set



24601	
Set (12 pieces) (Each code No. one piece-pack)	
24611	24646
24612	24651
24622	24653
24623	24654
24631	24661
24632	24663

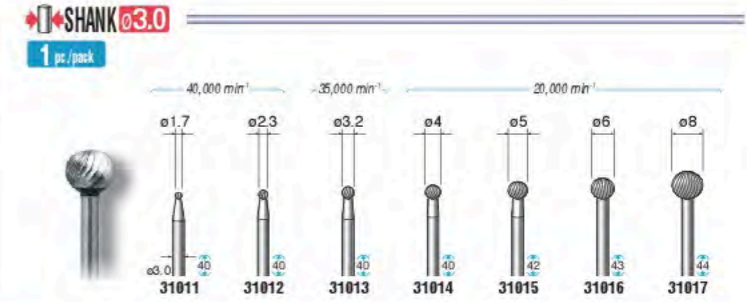
1 pc./pack **Wood Case**



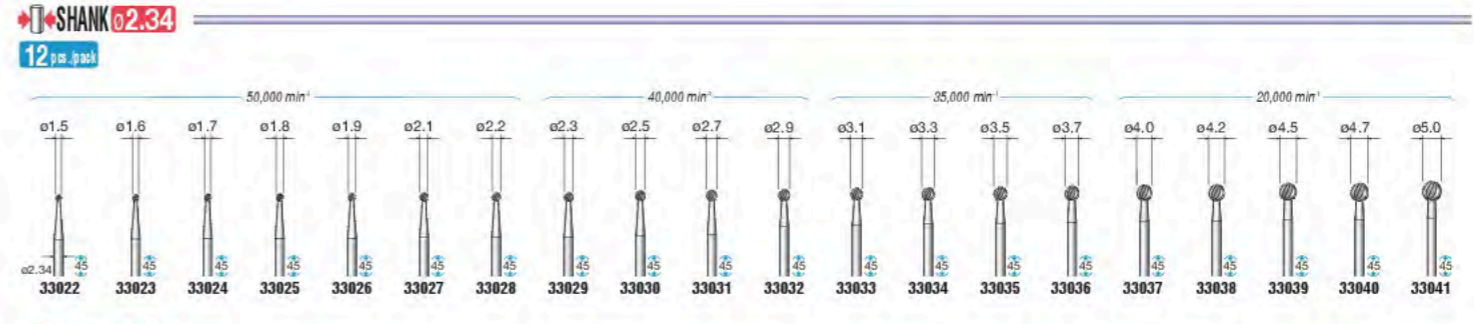
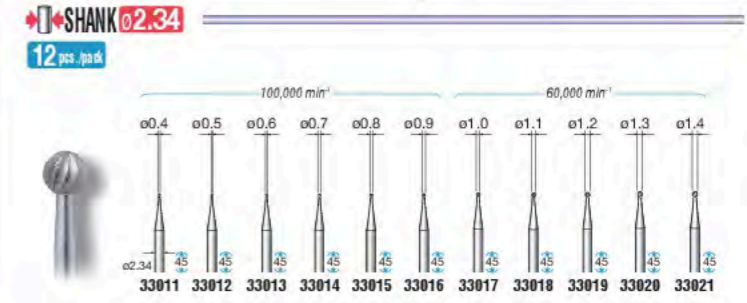
SPECIALTY TOOLS



High Speed Steel(H.S.S.)Cutters.
For cutting of general steels,
light metals, non-metals, plastics,
resins, etc.



Tungsten Vanadium Steel Cutters.
For fine finishing of soft materials,
resins, bronze, acrylics, etc.



SPECIALTY TOOLS

SHANK $\phi 2.34$
12 pcs./pack

100,000 min⁻¹ 60,000 min⁻¹ 35,000 min⁻¹ 20,000 min⁻¹

33091 33092 33094 33095 33096

12 pcs./pack Tapered Type

100,000 min⁻¹ 60,000 min⁻¹ 50,000 min⁻¹ 40,000 min⁻¹

33111 33112 33113 33114 33115 33116 33117 33118 33119

SHANK $\phi 2.34$
12 pcs./pack Straight Type

60,000 min⁻¹ 50,000 min⁻¹ 40,000 min⁻¹

33121 33122 33123 33124 33125

12 pcs./pack **6 pcs./pack**

100,000 min⁻¹ 50,000 min⁻¹ 35,000 min⁻¹ 20,000 min⁻¹

33151 33152 33153 33163

SHANK $\phi 2.34$
12 pcs./pack

60,000 min⁻¹ 50,000 min⁻¹ 30,000 min⁻¹ 35,000 min⁻¹ 20,000 min⁻¹

33171 33172 33175 33176 33173 33177 33174

12 pcs./pack **1 pc./pack**

60,000 min⁻¹ 50,000 min⁻¹ 35,000 min⁻¹ 20,000 min⁻¹

33181 33182 33183 33184 33185 33191

SHANK $\phi 2.34$
12 pcs./pack

100,000 min⁻¹ 35,000 min⁻¹ 40,000 min⁻¹ 20,000 min⁻¹ 15,000 min⁻¹

33201 33202 33211 33212 33213 33214

10 pcs./pack Saw Blade

13,000 min⁻¹ 11,000 min⁻¹ 9,000 min⁻¹ 7,000 min⁻¹ 5,000 min⁻¹

33311 33312 33313 33314 33315

SHANK $\phi 2.34$
6 pcs./pack

20,000 min⁻¹ 20,000 min⁻¹ 14,000 min⁻¹ 20,000 min⁻¹

33341 33342 33343 33345 33346 33361

6 pcs./pack **6 pcs./pack**

20,000 min⁻¹ 20,000 min⁻¹

33365 33366

SHANK $\phi 2.34$
6 pcs./pack

20,000 min⁻¹ 20,000 min⁻¹

33371 33372 33373 33375 33376 33391

SHANK $\phi 3.0$
6 pcs./pack

30,000 min⁻¹

33401 33402 33403

*Cutting for plastic and acrylic.

SPECIALTY TOOLS

Wood and Plastic working rotary rasps and files. Three types for rough cutting, pre-finishing and finishing.

SHANK $\phi 3.0$
10 pcs./pack Single Cut

Better surface finish

10,000 min⁻¹

33481 33482 33483 33484 33485 33486 33487

SHANK $\phi 3.0$
10 pcs./pack Rotary Rasps

Rough cutting

10,000 min⁻¹

33491 33492 33493 33494 33495

10 pcs./pack Rotary Files

Best surface finish

10,000 min⁻¹

33511 33512 33513

SHANK $\phi 3.0$
15 pcs./pack Assorted Set

Woodworking and Plastic Cutter Assorted Set; 15 types; Each types - pack

..... 33521

Tempered Steel Drills for plastics and woods. High Speed Steel Drills for steels and stainless steels, Carbide Drills for PCB, FRP.

SHANK $\phi 2.34$
12 pcs./pack Tempered Steel Drill (Total Length : 44 mm) : 15,000 min⁻¹

ϕ mm	ϕ mm		ϕ mm	ϕ mm		ϕ mm	ϕ mm	
0.5	8	36011	1.2	10	36018	2.3	12	36029
0.6	8	36012	1.3	10	36019			
0.7	8	36013	1.4	10	36020			
0.8	8	36014	1.5	10	36021			
0.9	10	36015	1.6	10	36022			
1.0	10	36016	1.8	12	36024			
1.1	10	36017	2.1	12	36027			

* $\phi 0.5-2.3$ mm each 1 pc. Full Size Set (No. 36011 ~ 36029; 15 pcs. - pack); Special case provided 36030

SHANK $\phi 2.34$
10 pcs./pack High Speed Steel (H.S.S) Drill (Total Length : 44 mm) : 20,000 min⁻¹

ϕ mm	ϕ mm		ϕ mm	ϕ mm		ϕ mm	ϕ mm	
0.5	9	36051	1.2	11	36058	1.9	12	36065
0.6	9	36052	1.3	11	36059	2.0	12	36066
0.7	9	36053	1.4	11	36060	2.1	12	36067
0.8	11	36054	1.5	12	36061	2.2	12	36068
0.9	11	36055	1.6	12	36062	2.3	12	36069
1.0	11	36056	1.7	12	36063			
1.1	11	36057	1.8	12	36064			

* $\phi 0.5-2.3$ mm each 1 pc. Full Size Set (No. 36051 ~ 36069; 19 pcs. - pack); Special case provided 36070

