

# NAKANISHI POLISHING TOOLS

POLISHING TOOLS



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NAKANISHI INC. 2018

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Specifications and design are subject to change without notice.



Nature of Tochigi, Japan



## ELECTROPLATED DIAMOND/CBN BURS

### Types of Abrasive Grain

#### Diamond

**Main Applications** ..... Suitable for grinding non-ferrous metals and non-metals ; rubber, plastic, FRP, FRM, stone material, carbide alloy, ceramics, pottery, glass, ferrite, zirconia, quartz, silicon, rare earth magnet, crystal and jewelry.

**Main Work Materials** ..... Effective for hard and brittle materials such as non-ferrous metal materials.

- Carbide alloy, cermet, burned material such as alumina
- Stone material, ceramic, refractory material, tile, and concrete
- Ceramics, pottery and silicon
- Glass, crystal and jewelry
- Plastic, FRP, graphite and carbon fiber
- General Grinding
- Heat resistant injection metal and stellite
- Magnetic material, ferrite and rare earth materials

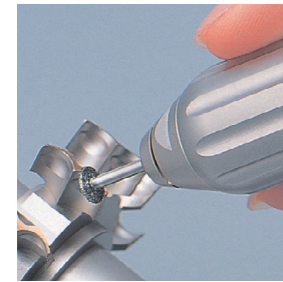
#### CBN

**Main Applications** .....\*For grinding of hardened steels such as alloy steels and tool steels, alumite and copper

\*For internal grinding of mold or jig grinder ; parts for precision machine, automobile, bearing and sewing machine.

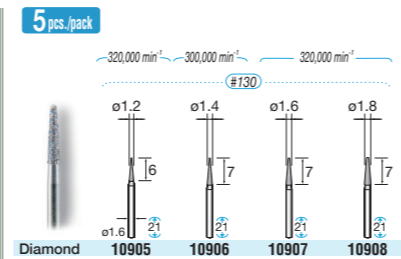
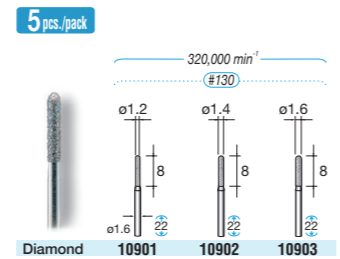
**Main Work Materials** ..... Effective for iron metal materials such as burned materials with iron and steel materials (harder than HRC60)

- Steel : carbon steel tools (SK), high speed steel (SKH), tool steel alloys (SKS, SKD), bearing steels (SUJ), structural alloy steels (SCM, SNCM, Scr and SACM), heat resistant steels (SUH) and stainless steels (SUS3 and SUS 4)
- Alloy : Ultra heat resistant cobalt alloys (haynes alloy, stellite, airresist, walex and inconel) Ultra heat resistant nickel alloys (inconel, hastelloy, Colmoy, and waspaloy)
- Cast iron : FC and FCD
- Stainless steel : SUS
- Injection metal
- Titanium alloys
- Magnetic materials: alnico, permalloy and sendust

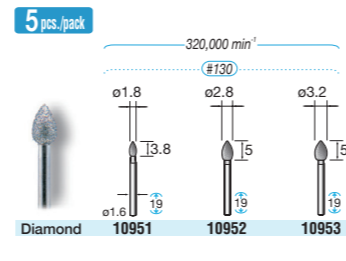
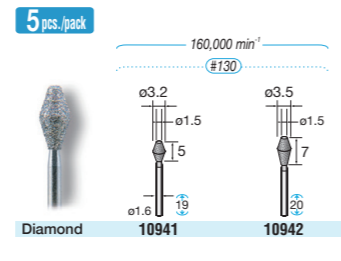
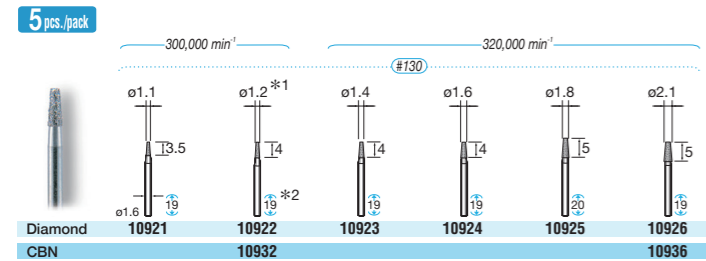


1.6 mm shank diameter series.  
Short type for high-speed rotation.  
Best for grinding very small parts.

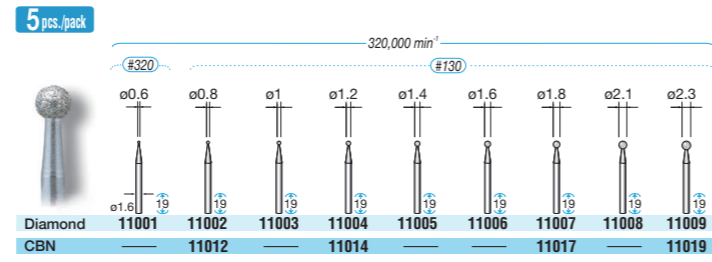
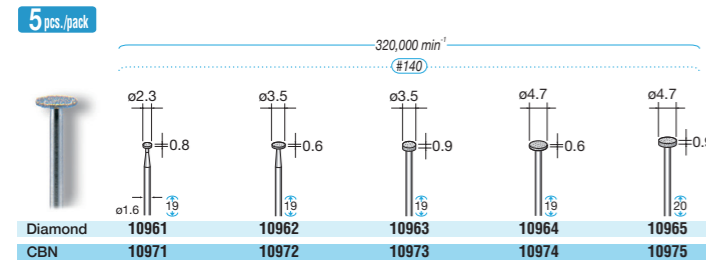
#### SHANK $\phi 1.6$



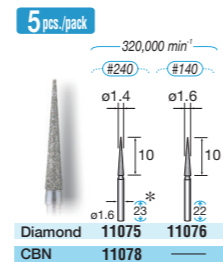
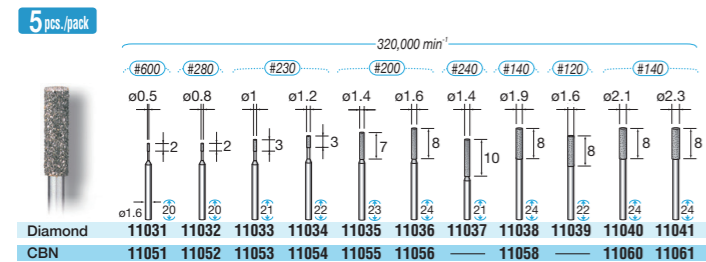
#### SHANK $\phi 1.6$



#### SHANK $\phi 1.6$

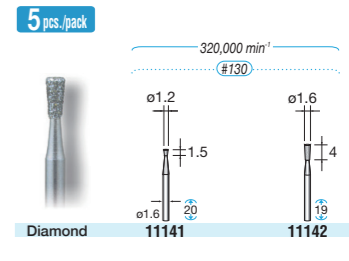
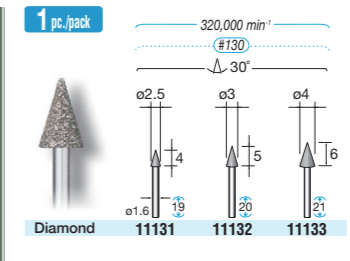
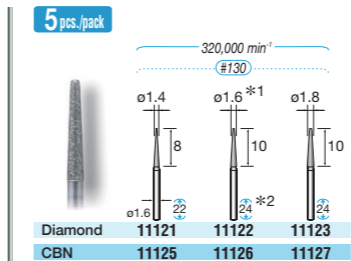
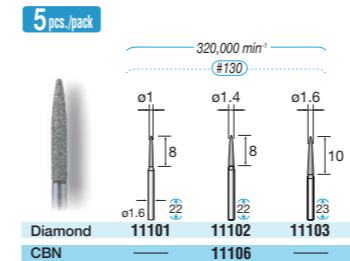


#### SHANK $\phi 1.6$

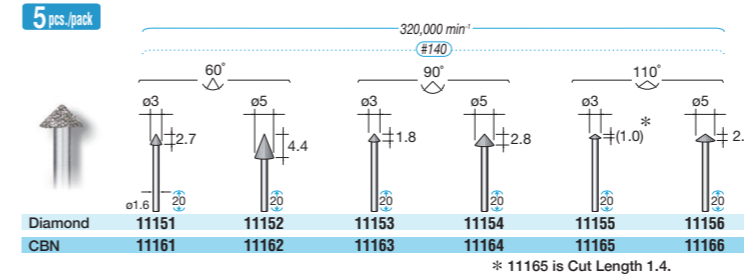


## ELECTROPLATED DIAMOND/CBN BURS

#### SHANK $\phi 1.6$

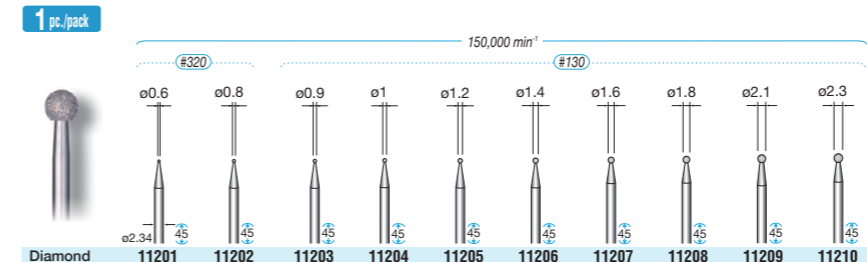


#### SHANK $\phi 1.6$

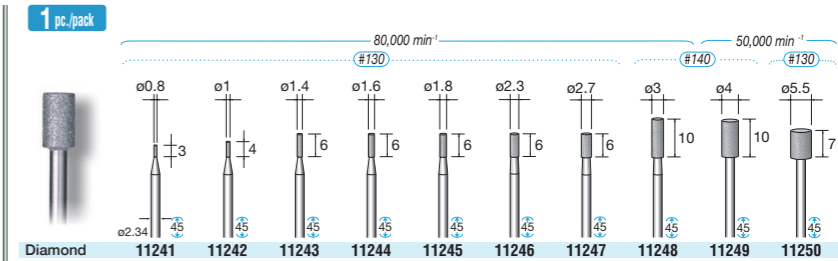
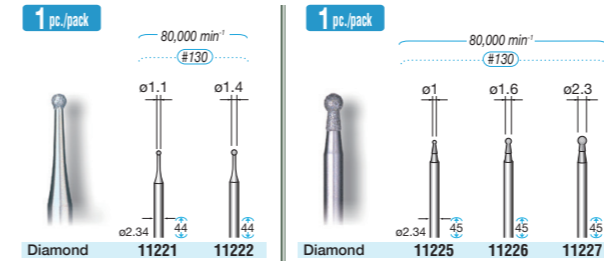


2.34 mm shank diameter series.  
Best for engraving, or precise burrs removal.

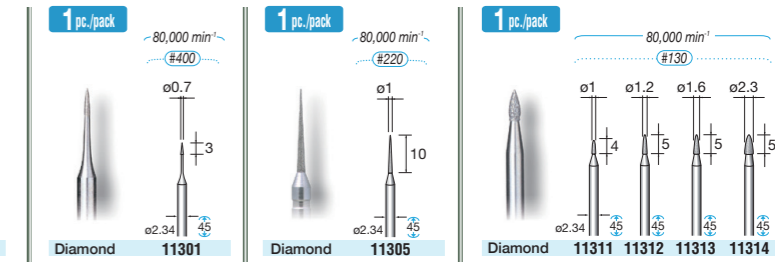
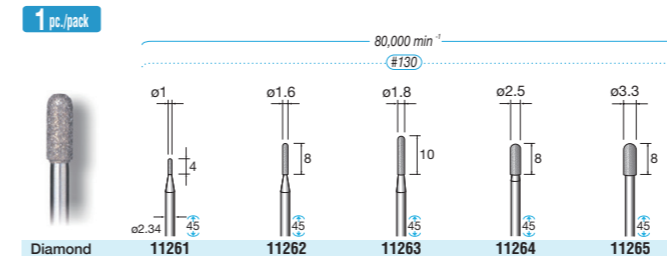
#### SHANK $\phi 2.34$



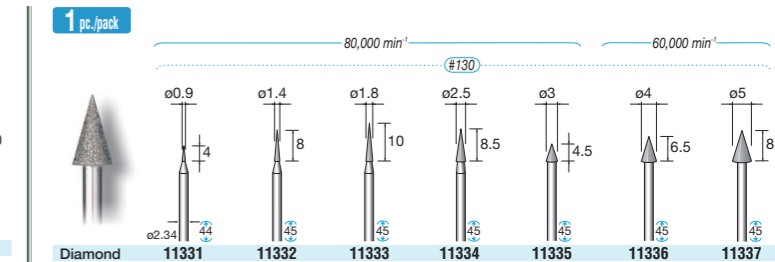
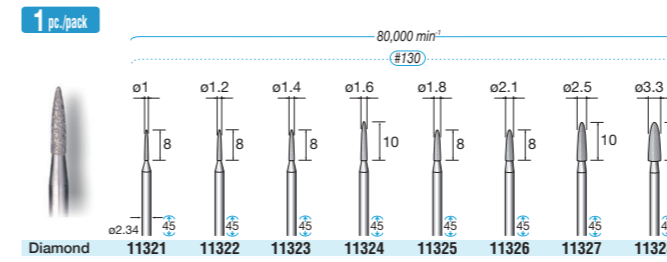
#### SHANK $\phi 2.34$



#### SHANK $\phi 2.34$



#### SHANK $\phi 2.34$



**ELECTROPLATED DIAMOND/CBN BURS**

**SHANK  $\phi 2.34$**   
1 pc./pack

50,000 min<sup>-1</sup> (#130)

Diamond 11341 11342

50,000 min<sup>-1</sup> (#130)

Diamond 11351 11352 11353 11354 11355 11356 11357 11358 11359

**SHANK  $\phi 2.34$**   
1 pc./pack

50,000 min<sup>-1</sup> (#130)

Diamond 11360 11361 11362 11363 11364 11365 11366

50,000 min<sup>-1</sup> (#130)

Diamond 11391 11392 11393 11394

**SHANK  $\phi 2.34$**   
1 pc./pack

50,000 min<sup>-1</sup> (#130) 30,000 min<sup>-1</sup>

Diamond 11401 11402 11403 11404 11405 11406

30,000 min<sup>-1</sup> (#130) (#107)

Diamond 11412 11413

**SHANK  $\phi 2.34$**   
1 pc./pack

50,000 min<sup>-1</sup> (#130) 30,000 min<sup>-1</sup>

Diamond 11425 11426

50,000 min<sup>-1</sup> (#130) 40,000 min<sup>-1</sup>

Diamond 11431 11432 11433

20,000 min<sup>-1</sup> (#100)

Diamond 11441

**SHANK  $\phi 2.34$**   
1 pc./pack

70,000 min<sup>-1</sup> (#130) 60,000 min<sup>-1</sup> 50,000 min<sup>-1</sup>

Diamond 11501 11502 11503 11504

50,000 min<sup>-1</sup> (#100) 30,000 min<sup>-1</sup> 20,000 min<sup>-1</sup>

Diamond 11511 11521 11522

**SHANK  $\phi 2.34$**   
1 pc./pack

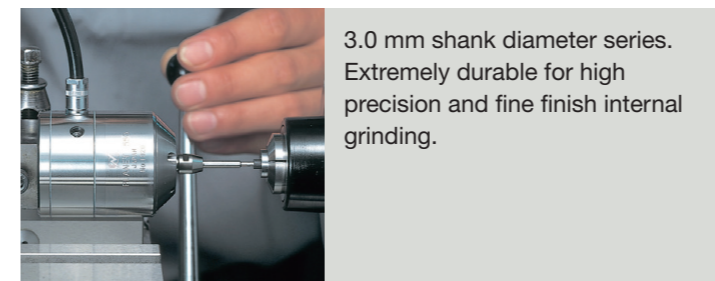
30,000 min<sup>-1</sup> (#130) 40,000 min<sup>-1</sup>

Diamond 11531 11532 11533 11534

80,000 min<sup>-1</sup> (#130) 60,000 min<sup>-1</sup> 50,000 min<sup>-1</sup>

Diamond 11541 11542 11543 11544 11545

**ELECTROPLATED DIAMOND/CBN BURS**



**SHANK  $\phi 3.0$**   
1 pc./pack

60,000 min<sup>-1</sup>

Diamond #200 11791  
#325 11803 11804 11805 11806 11807 11808  
#600 11813 11814 11815 11816 11817 11818

CBN #200 11792  
#325 11823 11824 11825 11826 11827 11828  
#600 11833 11834 11835 11836 11837 11838

**SHANK  $\phi 3.0$**   
1 pc./pack

60,000 min<sup>-1</sup>

Diamond #200 11793  
#325 11853 11854 11855 11856 11857 11858  
#600 11863 11864 11865 11866 11867 11868

CBN #200 11794  
#325 11873 11874 11875 11876 11877 11878  
#600 11883 11884 11885 11886 11887 11888

**SHANK  $\phi 3.0$**   
1 pc./pack

92,000 min<sup>-1</sup> (#1,000) 80,000 min<sup>-1</sup> (#600) (#320)

Diamond \* 12001 \* 12002 12003 12004 12005  
CBN \* 12011 \* 12012 12013 12014 12015

\* Carbide shank is used for  $\phi 0.1$  and  $\phi 0.2$  mm.

**SHANK  $\phi 3.0$**   
1 pc./pack

80,000 min<sup>-1</sup>

Diamond #320 12006 #320 12007 #230 12008 #230 12009 #170 12010  
CBN #320 12016 #270 12017 #270 12018 #230 12019 #230 12020

**SHANK  $\phi 3.0$**   
1 pc./pack

80,000 min<sup>-1</sup>

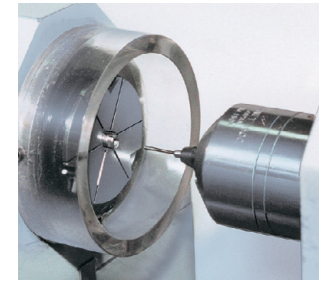
Diamond #100 12051 12052 12053 12054 12055 12056 12057 12058  
#140 12091 12092 12093 12094 12095 12096 12097 12098  
#220 12111 12112 12113 12114 12115 12116 12117 12118  
#320 12131 12132 12133 12134 12135 12136 12137 12138  
CBN #120 12155 12156 12157 12158  
#140 12151 12152 12153 12154  
#220 12171 12172 12173 12174 12175 12176 12177 12178

**SHANK  $\phi 3.0$**   
1 pc./pack

80,000 min<sup>-1</sup> 70,000 min<sup>-1</sup>

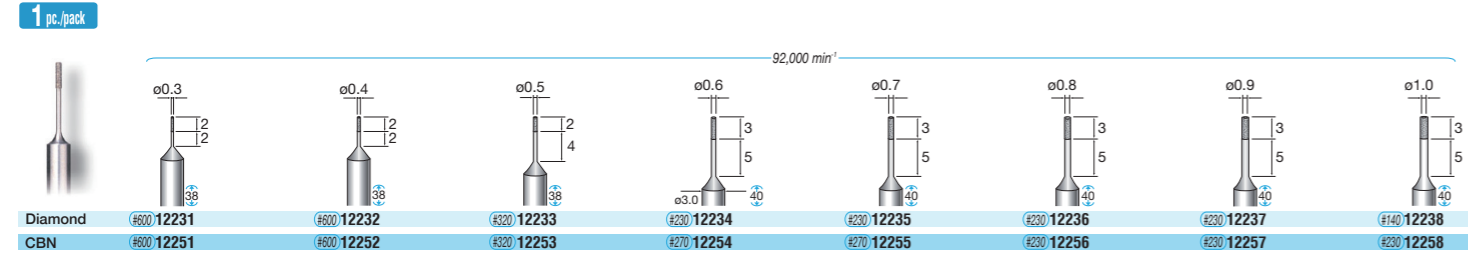
Diamond #100 12059 12060 12061 12062 12063 12064 12065  
#140 12039 12040 12041 12042 12043 12044 12045  
#220 12099 12100 12101 12102 12103 12104 12105  
#320 12119 12120 12121 12122 12123 12124 12125  
#600 12139 12140 12141 12143 12145  
CBN #120 12159 12160 12161 12162 12163 12164 12165  
#220 12179 12180 12181 12182 12183 12184 12185

**ELECTROPLATED DIAMOND/CBN BURS**

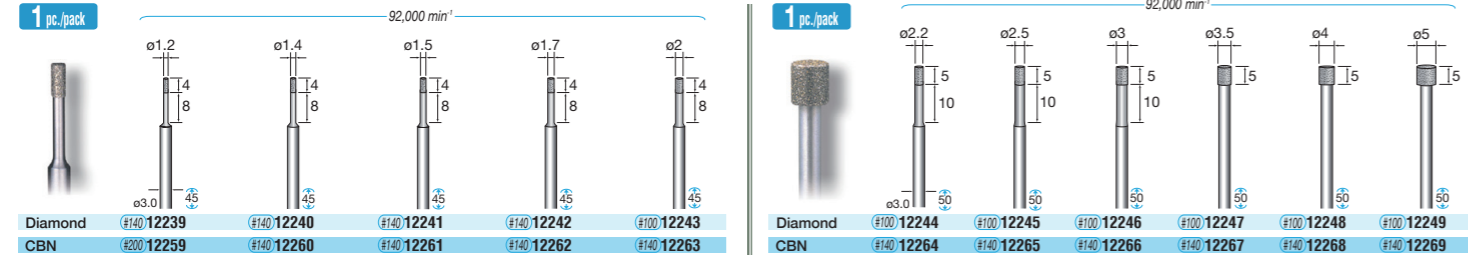


High rigidity and long clearance allow for high precision grinding of deep IDs. The up to 3 fold increase in rigidity versus stainless steel tools allows for much more precision and efficient grinding.

**SHANK Ø3.0 Carbide**

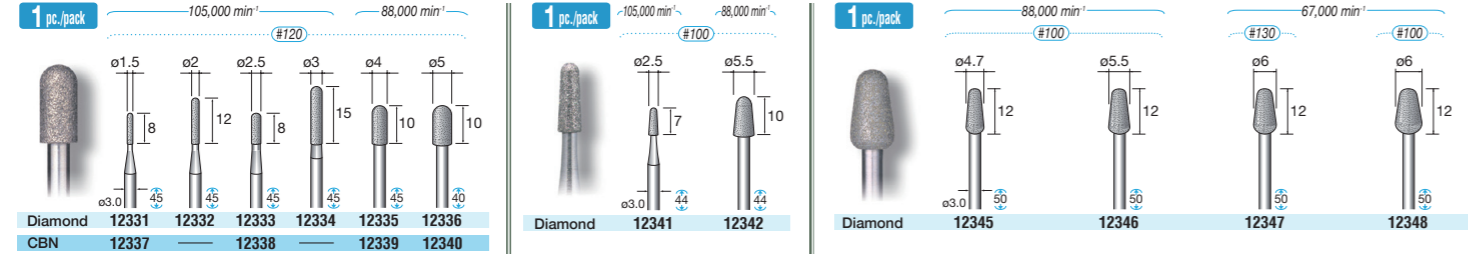


**SHANK Ø3.0 Carbide**

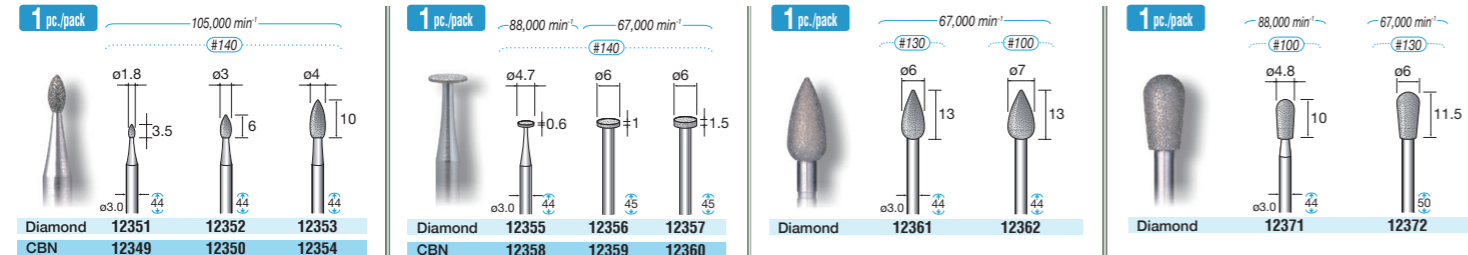


3.0 mm shank diameter series. Extremely durable for high precision burr removal and fine finishing.

**SHANK Ø3.0**



**SHANK Ø3.0**

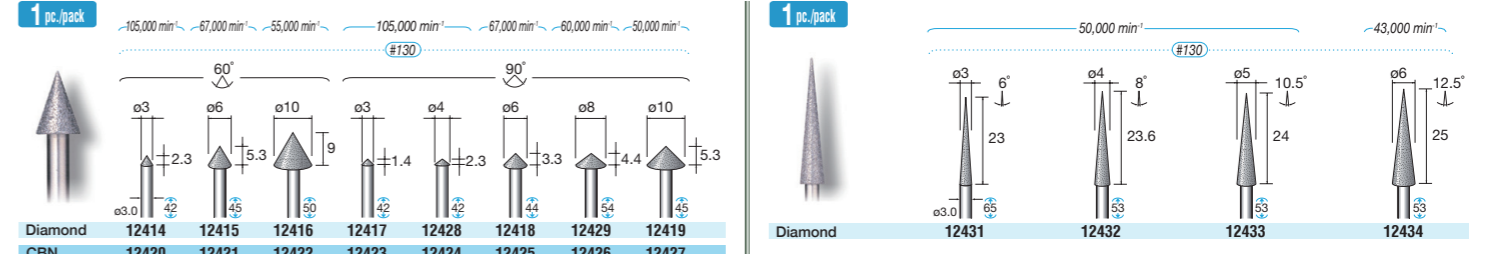


**ELECTROPLATED DIAMOND/CBN BURS**

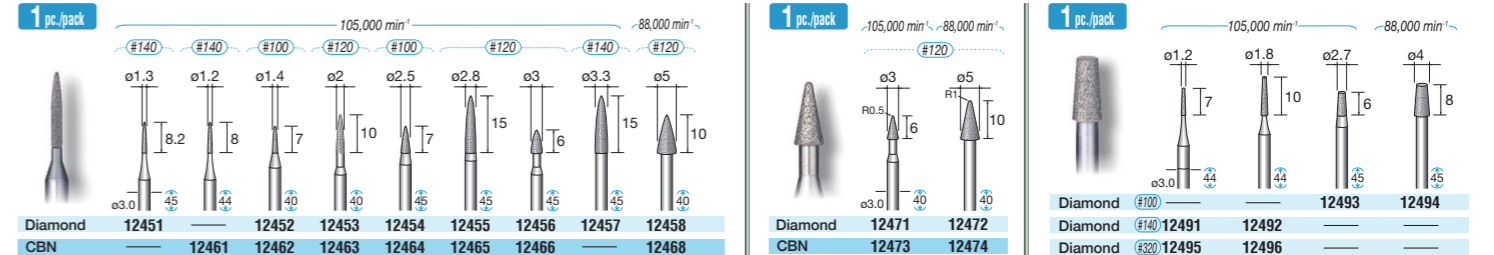
**SHANK Ø3.0**



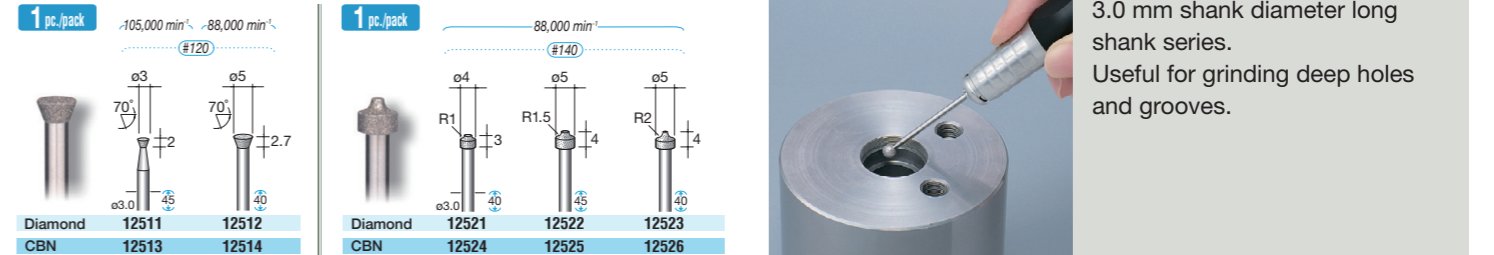
**SHANK Ø3.0**



**SHANK Ø3.0**

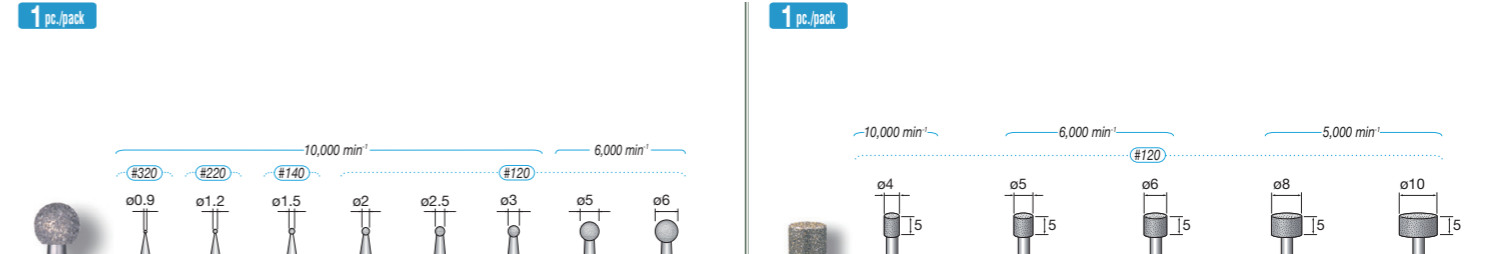


**SHANK Ø3.0**

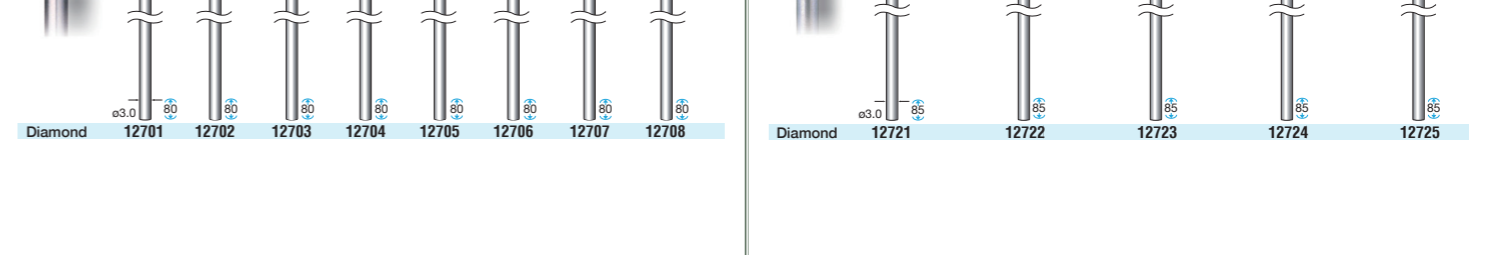


3.0 mm shank diameter long shank series. Useful for grinding deep holes and grooves.

**SHANK Ø3.0**



**SHANK Ø3.0**



ELECTROPLATED DIAMOND/CBN BURS

**SHANK  $\phi 3.0$**   
1 pc./pack

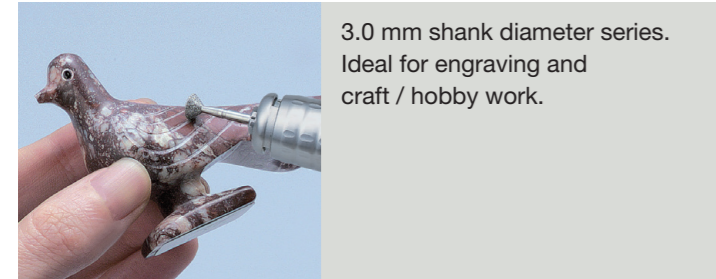
60,000 min<sup>-1</sup> 50,000 min<sup>-1</sup>

|         |       |       |       |       |
|---------|-------|-------|-------|-------|
| Diamond | 12741 | 12742 | 12743 | 12744 |
|---------|-------|-------|-------|-------|

**SHANK  $\phi 3.0$**   
1 pc./pack

50,000 min<sup>-1</sup>

|         |       |       |       |       |
|---------|-------|-------|-------|-------|
| Diamond | 12745 | 12746 | 12747 | 12748 |
|---------|-------|-------|-------|-------|



3.0 mm shank diameter series.  
Ideal for engraving and craft / hobby work.

**SHANK  $\phi 3.0$**   
3 pcs./pack

80,000 min<sup>-1</sup> 70,000 min<sup>-1</sup>

|         |       |       |       |       |       |       |       |       |       |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Diamond | 12801 | 12802 | 12803 | 12804 | 12805 | 12806 | 12807 | 12808 | 12809 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

**SHANK  $\phi 3.0$**   
3 pcs./pack

80,000 min<sup>-1</sup> 70,000 min<sup>-1</sup>

|         |       |       |       |       |       |       |       |       |       |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Diamond | 12811 | 12812 | 12813 | 12814 | 12815 | 12816 | 12817 | 12818 | 12819 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

**SHANK  $\phi 3.0$**   
3 pcs./pack

70,000 min<sup>-1</sup> 80,000 min<sup>-1</sup> 70,000 min<sup>-1</sup>

|         |       |       |       |       |       |       |       |       |       |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Diamond | 12821 | 12822 | 12823 | 12824 | 12825 | 12826 | 12827 | 12828 | 12829 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

**SHANK  $\phi 3.0$**   
3 pcs./pack

80,000 min<sup>-1</sup> 70,000 min<sup>-1</sup> 30,000 min<sup>-1</sup> 70,000 min<sup>-1</sup>

|         |       |       |       |       |       |       |       |
|---------|-------|-------|-------|-------|-------|-------|-------|
| Diamond | 12831 | 12832 | 12833 | 12834 | 12835 | 12836 | 12837 |
|---------|-------|-------|-------|-------|-------|-------|-------|

**Assorted Set**  
18 pcs./pack

12841

Set (18 pieces)

|       |       |       |
|-------|-------|-------|
| 12801 | 12813 | 12825 |
| 12803 | 12815 | 12827 |
| 12805 | 12817 | 12828 |
| 12807 | 12819 | 12832 |
| 12809 | 12821 | 12833 |
| 12811 | 12823 | 12836 |



6.0 mm shank diameter series.  
Medium grit tools for highly efficient ID and jig grinding or burr removal.

**SHANK  $\phi 6.0$**   
1 pc./pack

80,000 min<sup>-1</sup>

|                |       |       |       |       |
|----------------|-------|-------|-------|-------|
| Length         | L=50  | L=50  | L=55  | L=86  |
| Diamond (#100) | 13011 | 13012 | 13013 | 13014 |
| CBN (#140)     | 13101 | 13102 | 13103 | 13104 |

**SHANK  $\phi 6.0$**   
1 pc./pack

80,000 min<sup>-1</sup> 75,000 min<sup>-1</sup>

|                |       |       |       |      |       |       |       |       |       |       |      |       |       |
|----------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| Length         | L=80  | L=50  | L=50  | L=88 | L=55  | L=89  | L=60  | L=80  | L=80  |       |      |       |       |
| Diamond (#100) | 13035 | 13015 | 13036 | L=87 | 13016 | 13037 | 13017 | 13038 | 13018 | 13039 | L=80 | 13040 | 13019 |
| CBN (#140)     | 13125 | 13105 | 13126 | L=80 | 13106 | 13127 | 13107 | 13128 | 13108 | 13129 | L=89 | 13130 | 13109 |

ELECTROPLATED DIAMOND/CBN BURS

**SHANK  $\phi 6.0$**   
1 pc./pack

50,000 min<sup>-1</sup> 35,000 min<sup>-1</sup>

|                |       |       |       |       |       |
|----------------|-------|-------|-------|-------|-------|
| Length         | L=60  | L=80  | L=60  | L=80  | L=80  |
| Diamond (#100) | 13020 | 13041 | 13042 | 13021 | 13022 |
| CBN (#140)     | 13110 | 13131 | 13132 | 13111 | 13112 |

**SHANK  $\phi 6.0$**   
1 pc./pack

80,000 min<sup>-1</sup> 60,000 min<sup>-1</sup> 45,000 min<sup>-1</sup>

|         |       |       |       |       |       |
|---------|-------|-------|-------|-------|-------|
| Diamond | 13201 | 13202 | 13203 | 13204 | 13205 |
| CBN     | 13206 | 13207 | 13208 | 13209 | 13210 |

**SHANK  $\phi 6.0$**   
1 pc./pack

50,000 min<sup>-1</sup> 45,000 min<sup>-1</sup>

|         |       |       |       |
|---------|-------|-------|-------|
| Diamond | 13241 | 13242 | 13243 |
| CBN     | 13246 | 13247 | 13248 |

**SHANK  $\phi 6.0$**   
1 pc./pack

50,000 min<sup>-1</sup> 45,000 min<sup>-1</sup>

|         |       |       |       |
|---------|-------|-------|-------|
| Diamond | 13261 | 13262 | 13263 |
| CBN     | 13266 | 13267 | 13268 |

**SHANK  $\phi 6.0$**   
1 pc./pack

35,000 min<sup>-1</sup> 45,000 min<sup>-1</sup> 30,000 min<sup>-1</sup>

|         |       |       |       |
|---------|-------|-------|-------|
| Diamond | 13301 | 13311 | 13312 |
| CBN     | 13302 |       |       |

**SHANK  $\phi 6.0$**   
1 pc./pack

50,000 min<sup>-1</sup> 35,000 min<sup>-1</sup>

|         |       |       |       |
|---------|-------|-------|-------|
| Diamond | 13321 | 13322 | 13332 |
| CBN     |       |       | 13336 |

**SHANK  $\phi 6.0$**   
1 pc./pack

50,000 min<sup>-1</sup> 45,000 min<sup>-1</sup> 35,000 min<sup>-1</sup> 30,000 min<sup>-1</sup>

|         |       |       |       |       |
|---------|-------|-------|-------|-------|
| Diamond | 13340 | 13341 | 13342 | 13343 |
| CBN     | 13344 | 13345 | 13346 |       |

**SHANK  $\phi 6.0$**   
1 pc./pack

45,000 min<sup>-1</sup> 35,000 min<sup>-1</sup> 45,000 min<sup>-1</sup> 35,000 min<sup>-1</sup>

|         |       |       |       |       |
|---------|-------|-------|-------|-------|
| Diamond | 13351 | 13352 | 13353 | 13354 |
| CBN     | 13355 | 13356 | 13357 | 13358 |

**SHANK  $\phi 6.0$**   
1 pc./pack

45,000 min<sup>-1</sup> 35,000 min<sup>-1</sup>

|         |       |       |       |       |
|---------|-------|-------|-------|-------|
| Diamond | 13371 | 13372 | 13381 | 13382 |
| CBN     | 13375 | 13376 | 13385 | 13386 |

**SHANK  $\phi 6.0$**   
1 pc./pack

45,000 min<sup>-1</sup> 35,000 min<sup>-1</sup>

|         |       |       |
|---------|-------|-------|
| Diamond | 13391 | 13392 |
| CBN     | 13395 | 13396 |

**SHANK  $\phi 2.34$**   
1 pc./pack

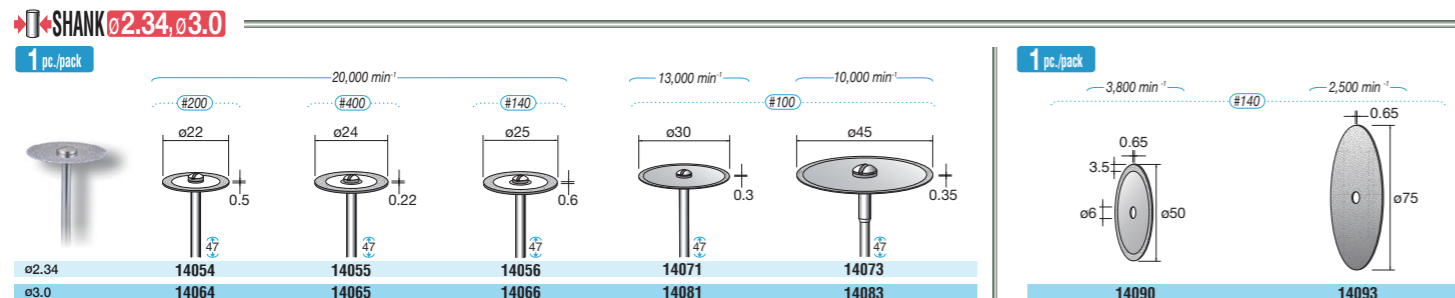
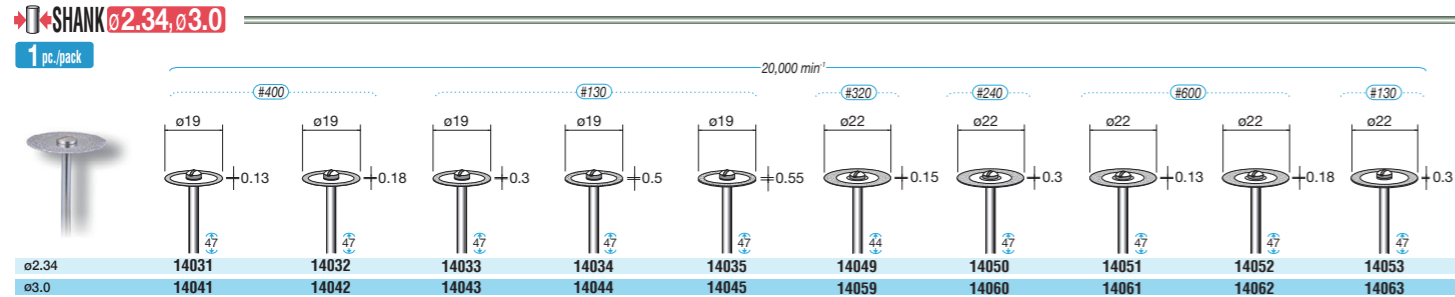
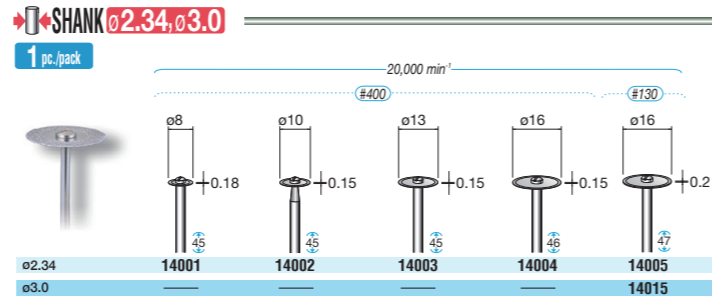
#140

| $\phi$ mm | Lmm |       |
|-----------|-----|-------|
| 0.8       | 8   | 13851 |
| 0.9       | 8   | 13852 |
| 1.0       | 8   | 13853 |
| 1.1       | 8   | 13854 |
| 1.2       | 10  | 13855 |
| 1.3       | 10  | 13856 |
| 1.4       | 10  | 13857 |
| 1.5       | 10  | 13858 |

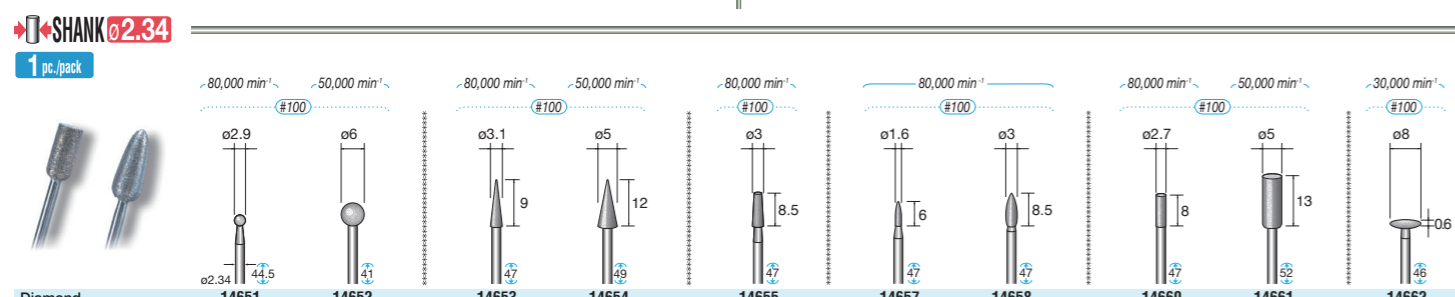
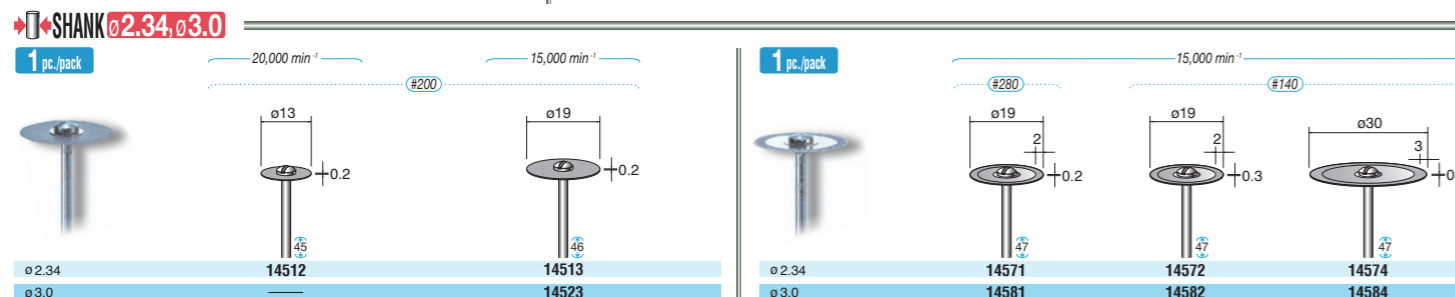
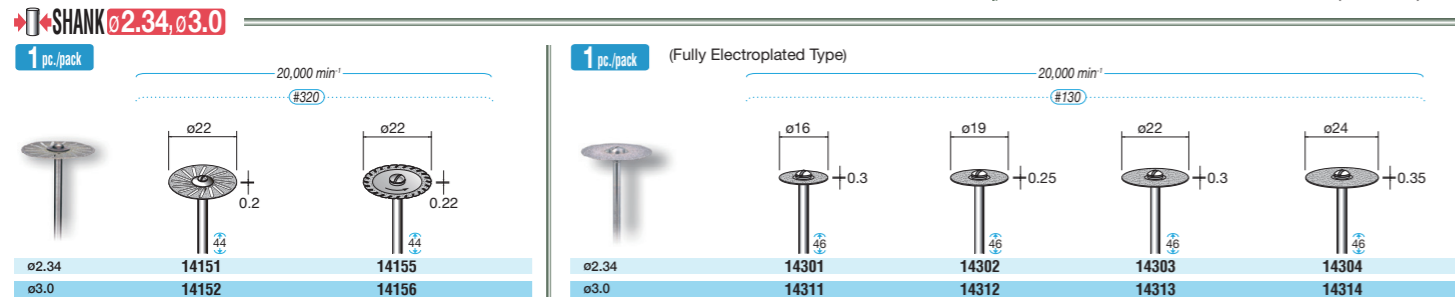
**ELECTROPLATED DIAMOND/CBN BURS**



2.34 / 3.0 mm shank diameters. Diamond grinding discs, ideal for ceramics, FRP, glass, ferrites, various stones, and super hard alloys.



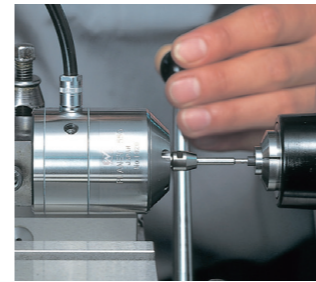
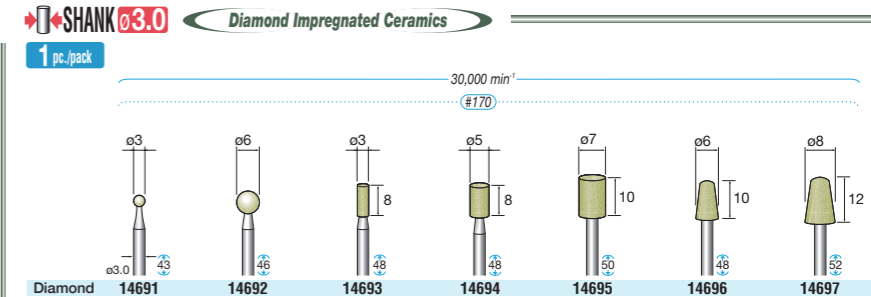
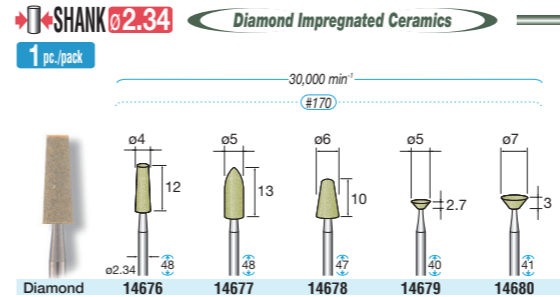
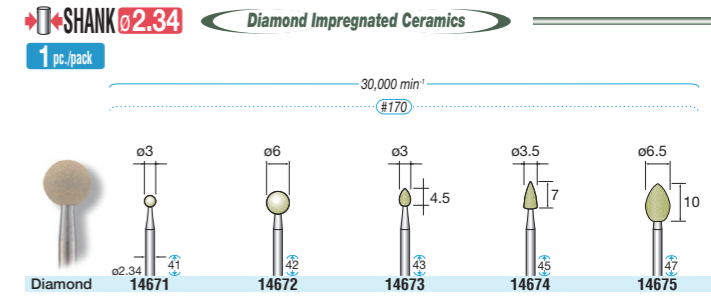
These tools can be used with the mandrel. (P.29/37055)



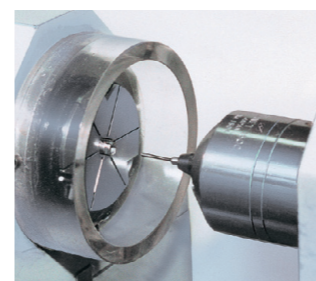
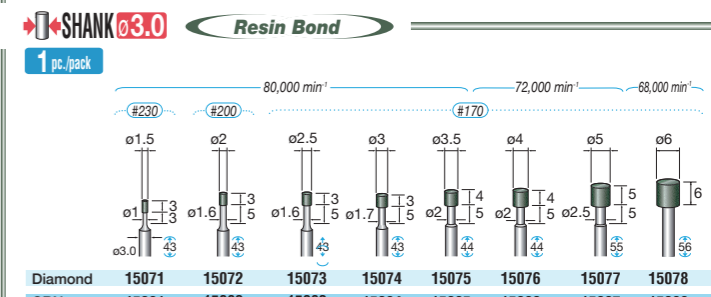
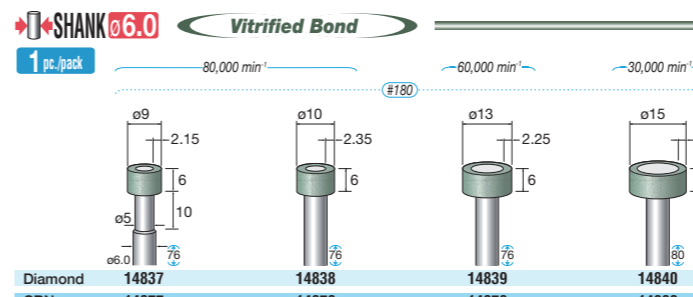
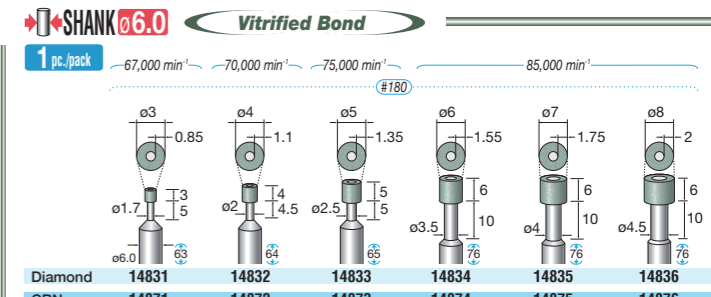
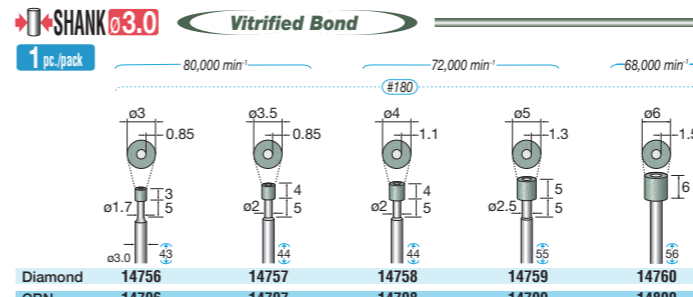
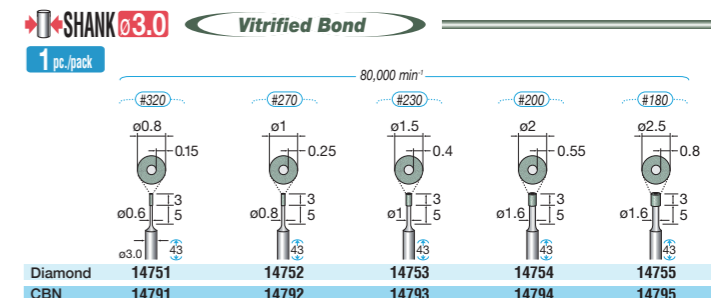
**VITRIFIED / RESIN BONDED DIAMOND / CBN AND DIAMOND IMPREGNATED CERAMIC BARS**



2.34 / 3.0 mm shank diameters. Diamond impregnated ceramics have the same basic cutting properties of standard abrasives but are very durable.



Vitrified, Diamond & CBN grindstones. Highly durable bonding and high abrasive concentration make these tools ideal for mass production applications.



Resin bonded, Diamond & CBN grindstones. Good for general grinding, these grindstones will exhibit better performance than standard abrasives.

Diamond / CBN  
Carbide Cutters  
Specialty Tools  
Mounted Points  
Rubberized Abrasives  
Flap Wheels  
Polishing Brushes  
Felt Bobs  
Abrasive Compounds & Polishing Tools  
NSK Exclusive Tools

**VITRIFIED / RESIN BONDED DIAMOND / CBN AND DIAMOND IMPREGNATED CERAMIC BARS**

**SHANK  $\phi 6.0$  Resin Bond**  
1 pc./pack

|         |       |       |       |       |       |
|---------|-------|-------|-------|-------|-------|
| Diamond | 15101 | 15102 | 15103 | 15104 | 15105 |
| CBN     | 15111 | 15112 | 15113 | 15114 | 15115 |

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

| 15301   |       |
|---|-------|
| Set (12 pieces)<br>(Each code No. one piece-pack) |       |
| 11204   | 11313 |
| 11208   | 11321 |
| 11213   | 11333 |
| 11242   | 11356 |
| 11247   | 11366 |
| 11250   | 11502 |

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

| 15305   |       |
|---|-------|
| Set (12 pieces)<br>(Each code No. one piece-pack) |       |
| 12317   | 12403 |
| 12320   | 12405 |
| 12336   | 12412 |
| 12341   | 12415 |
| 12355   | 12451 |
| 12401   | 12492 |

**SHANK  $\phi 3.0$**   
10 pcs./pack Assorted Set

| 15311   |          |           |          |
|---|----------|-----------|----------|
| Set (10 pieces)<br>(Each code No. one piece-pack) |          |           |          |
| $\phi$ mm   | CAT. NO. | $\phi$ mm | CAT. NO. |
| 0.8   | 12009    | 3         | 12058    |
| 1   | 12051    | 3.5       | 12060    |
| 1.5   | 12053    | 4         | 12061    |
| 2   | 12055    | 5         | 12063    |
| 2.5   | 12057    | 6         | 12065    |

| 15312   |          |           |          |
|---|----------|-----------|----------|
| Set (10 pieces)<br>(Each code No. one piece-pack) |          |           |          |
| $\phi$ mm   | CAT. NO. | $\phi$ mm | CAT. NO. |
| 0.8   | 12019    | 3         | 12158    |
| 1   | 12151    | 3.5       | 12160    |
| 1.5   | 12153    | 4         | 12161    |
| 2   | 12155    | 5         | 12163    |
| 2.5   | 12157    | 6         | 12165    |

**SHANK  $\phi 3.0$**   
8 pcs./pack Assorted Set

| 15321  |          |           |          |
|--|----------|-----------|----------|
| Set (8 pieces)<br>(Each code No. one piece-pack) |          |           |          |
| $\phi$ mm  | CAT. NO. | $\phi$ mm | CAT. NO. |
| 1  | 14752    | 3         | 14756    |
| 1.5  | 14753    | 4         | 14758    |
| 2  | 14754    | 5         | 14759    |
| 2.5  | 14755    | 6         | 14760    |

| 15322  |          |           |          |
|--|----------|-----------|----------|
| Set (8 pieces)<br>(Each code No. one piece-pack) |          |           |          |
| $\phi$ mm  | CAT. NO. | $\phi$ mm | CAT. NO. |
| 1  | 14792    | 3         | 14796    |
| 1.5  | 14793    | 4         | 14798    |
| 2  | 14794    | 5         | 14799    |
| 2.5  | 14795    | 6         | 14800    |

**SHANK  $\phi 3.0$**   
8 pcs./pack Assorted Set

| 15331  |          |           |          |
|--|----------|-----------|----------|
| Set (8 pieces)<br>(Each code No. one piece-pack) |          |           |          |
| $\phi$ mm  | CAT. NO. | $\phi$ mm | CAT. NO. |
| 1.5  | 15071    | 3.5       | 15075    |
| 2  | 15072    | 4         | 15076    |
| 2.5  | 15073    | 5         | 15077    |
| 3  | 15074    | 6         | 15078    |

| 15332  |          |           |          |
|--|----------|-----------|----------|
| Set (8 pieces)<br>(Each code No. one piece-pack) |          |           |          |
| $\phi$ mm  | CAT. NO. | $\phi$ mm | CAT. NO. |
| 1.5  | 15081    | 3.5       | 15085    |
| 2  | 15082    | 4         | 15086    |
| 2.5  | 15083    | 5         | 15087    |
| 3  | 15084    | 6         | 15088    |

**CARBIDE CUTTERS**

**Tool / Cut types and features** (\*' Shows available shank sizes for each cut type)

|   |   |  |   |
|---|---|--|---|
| <p><b>Single Cut (1)</b></p> <p>Single cut produces superior surface finishes.<br/>* <math>\phi 1.6, \phi 2.34, \phi 3.0, \phi 6.0</math></p>   | <p><b>Single Cut Coarse (2)</b></p> <p>Single Cut Coarse has similar cutting characteristics to Single cut, but is better for gummy materials due to deep helix design. Ideal for rubbers, resins, and plasters.<br/>* <math>\phi 2.34, \phi 3.0</math></p> | <p><b>Chip Breaker (3)</b></p> <p>Chip Breaker is the single cut with a chip breaker. The chip breaker clears chips easily making aggressive cutting very efficient. Surface finish is rougher than single cut.<br/>* <math>\phi 1.6, \phi 2.34</math></p> | <p><b>Alumina Cut (4)</b></p> <p>Alumina Cut has very sharp edge with a deep helix. The deep helix design prevents tool loading. Ideal for aluminum, magnesium alloys, plastics and hard rubbers.<br/>* <math>\phi 6.0</math></p> |
| <p><b>Double Cut (5)</b></p> <p>Smooth Cut with small tooth design minimizes chatter. This tool also helps enhance safety as it produces very small chips.<br/>* <math>\phi 2.34, \phi 3.0, \phi 6.0</math></p> | <p><b>Double Cut Coarse (6)</b></p> <p>Deep helix design prevents tool loading. Ideal for grinding hard rubbers, resins and plaster.<br/>* <math>\phi 2.34</math></p>   | <p><b>Diamond Cut Fine (7)</b></p> <p>Diamond Cut Fine (7) has similar characteristics as Double Cut (5). Specially designed for very hard materials. Produces fine surface finish.<br/>* <math>\phi 2.34, \phi 3.0</math></p>                             | <p><b>Diamond Cut Coarse (8)</b></p> <p>Specially designed for very hard materials. Produces fine surface finish.<br/>* <math>\phi 3.0, \phi 6.0</math></p>   |

Titanium coating insures long tool life and minimizes tool loading.

**SHANK  $\phi 3.0$**   
1 pc./pack Double Cut

**SHANK  $\phi 3.0$**   
1 pc./pack Double Cut

**1 pc./pack Single Cut**

**SHANK  $\phi 3.0$**   
1 pc./pack Single Cut