

NAKANISHI

# TOOLS

特制工具

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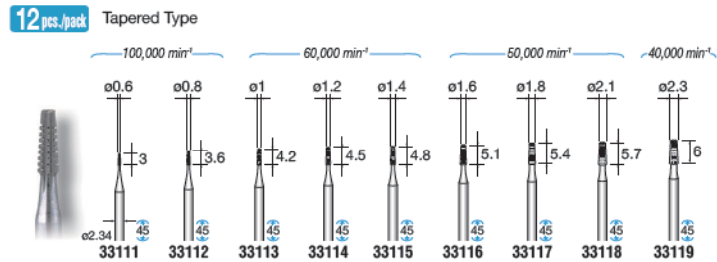
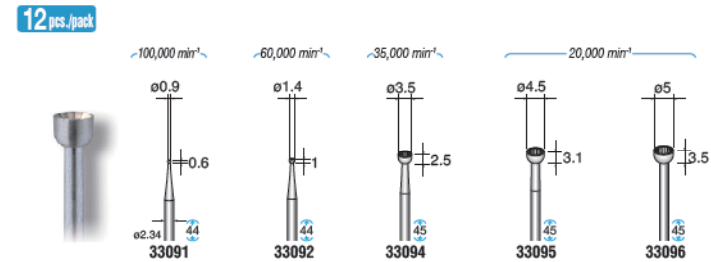
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邮箱：inquiry@supertooling.com

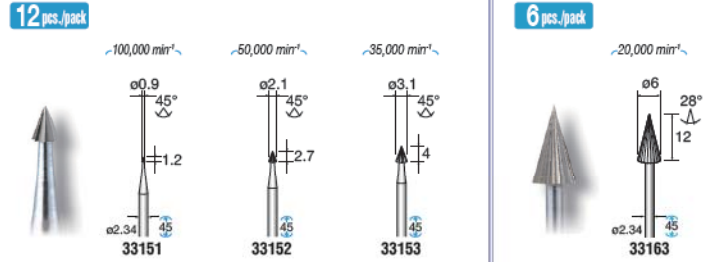
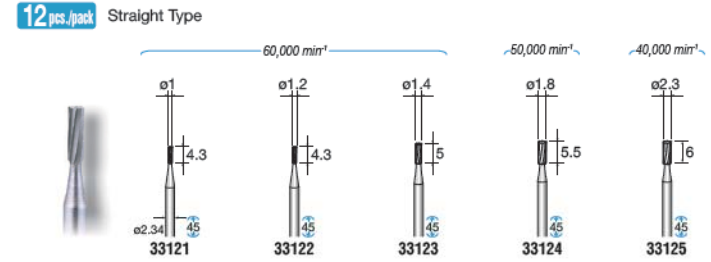
TOOLS

**SPECIALTY TOOLS**

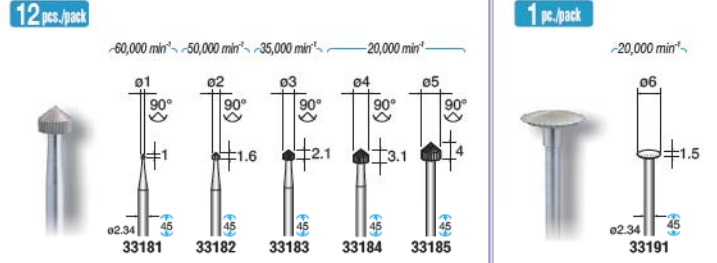
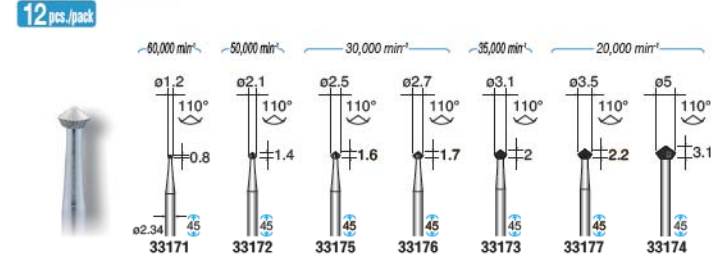
SHANK  $\phi 2.34$



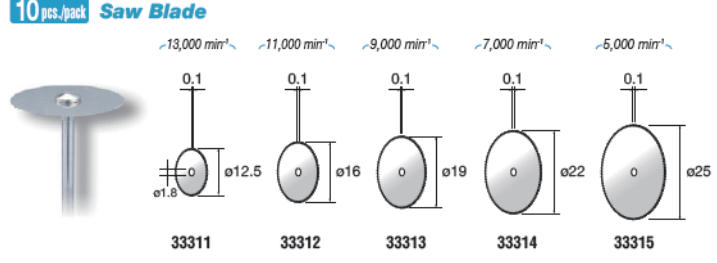
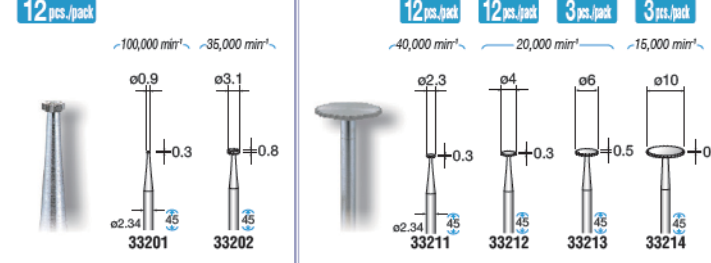
SHANK  $\phi 2.34$



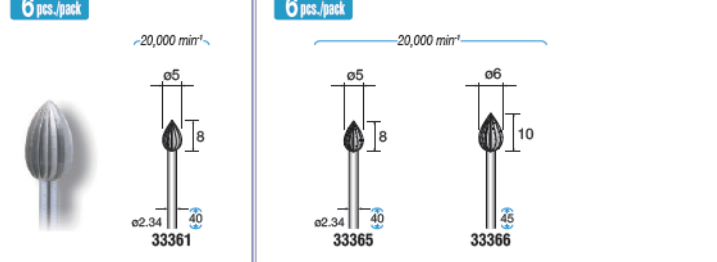
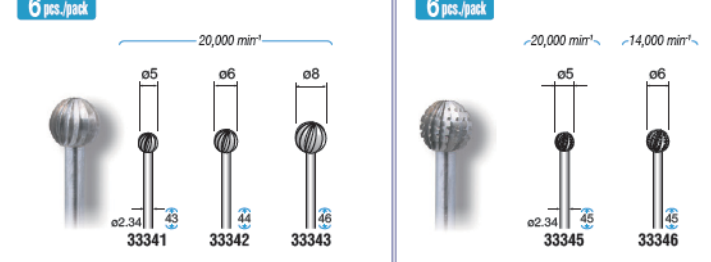
SHANK  $\phi 2.34$



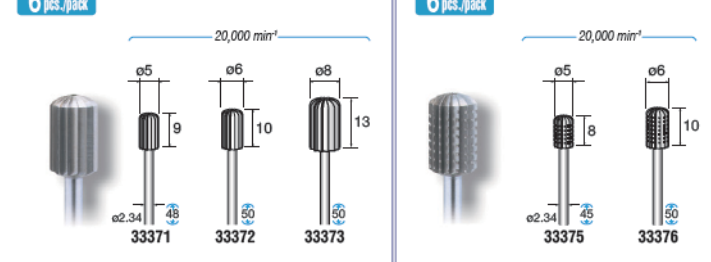
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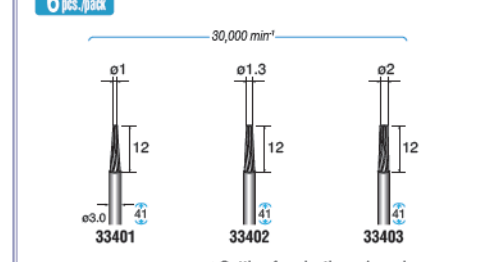
SHANK  $\phi 2.34$



SHANK  $\phi 2.34$



SHANK  $\phi 3.0$

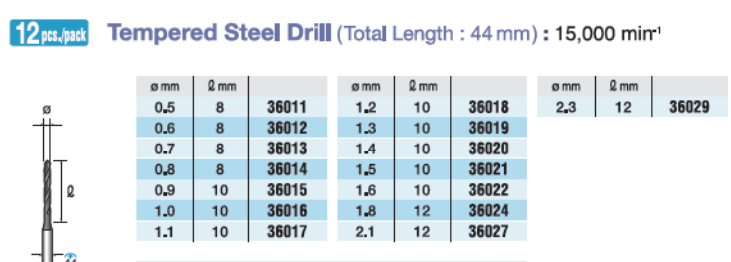


**SPECIALTY TOOLS**



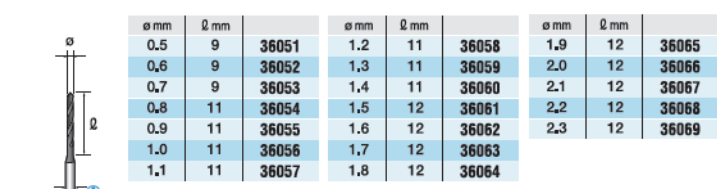
Tempered Steel Drills for plastics and woods. High Speed Steel Drills for steels and stainless steels, Carbide Drills for PCB, FRP.

SHANK  $\phi 2.34$



SHANK  $\phi 2.34$

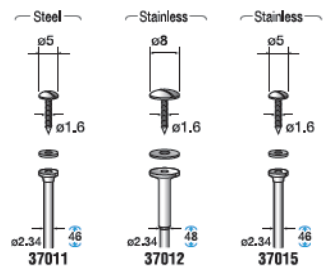
10 pcs./pack High Speed Steel (H.S.S) Drill (Total Length : 44 mm) : 20,000 min<sup>-1</sup>



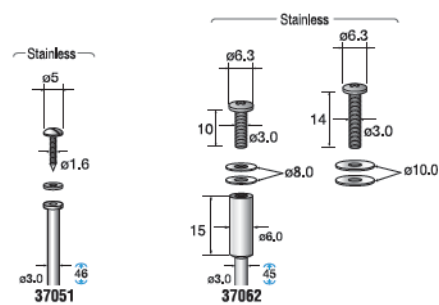
φ0.5-2.3 mm each 1 pc., Full Size Set (No. 36051 ~ 36069 ; 19 pcs. + pack) ; Special case provided ..... 36070

**SPECIALTY TOOLS**

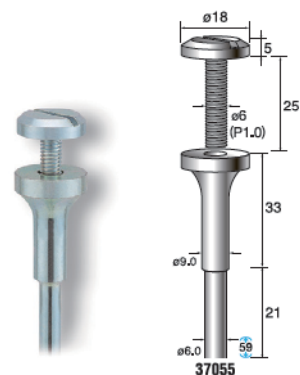
**SHANK  $\phi 2.34$**   
10 pcs./pack Mandrels



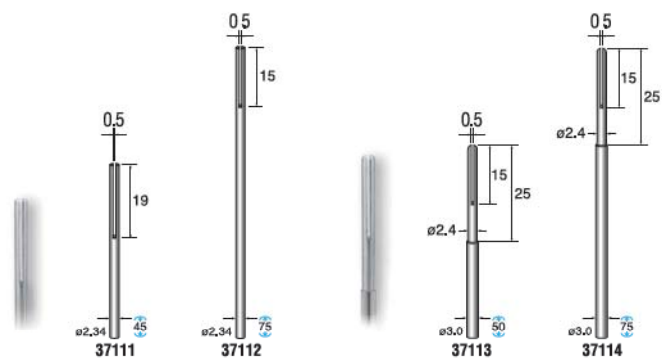
**SHANK  $\phi 3.0$**   
10 pcs./pack Mandrels 3 pcs./pack Mandrels



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



**SHANK  $\phi 2.34, \phi 3.0$**   
10 pcs./pack



**MOUNTED POINTS**

**Types of Abrasive Grain**

"Abrasive Grain" is a general term of very hard abrasive particles for polishing and grinding. Abrasive Grain is harder than work materials and functions to grind work materials. Abrasive Grain is classified generally into three types.

**Alumina type**

Primary ingredient is alumina (aluminium oxide :  $Al_2O_3$ ).

- A** : For rough grinding of iron and steel materials, low carbon steels, forged products, castings and raw steel materials.
- WA** : For general grinding of alloy steels, tool steels and carbon steels.
- PA** : For general grinding of heat treated alloy steels, tool steels, and stainless steels.

**Silicon Carbide type**

Primary ingredient is silicon carbide (SiC).

- C** : For general grinding of cast iron, chilled cast iron, copper, bronze, brass, aluminum and non ferrous metals.
- GC** : For general grinding of super hard alloys, ceramics, stone, jewelry, glass, pottery, wood and synthetic resins.

**Mixed Abrasive Grain type**

Mixed use of abrasive grain of the same type

- PA · W** : For precision grinding of high speed steel, alloy steels, tool steels and special alloys.
- A · WA** : For rough grinding of iron and steel materials, low carbon steels, forged products, castings, steel materials and stainless steels.

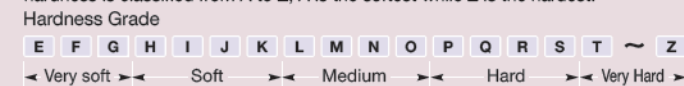
**Bonding Material**

Material used to bond and hold abrasive grains. Primary bonding materials are shown below.

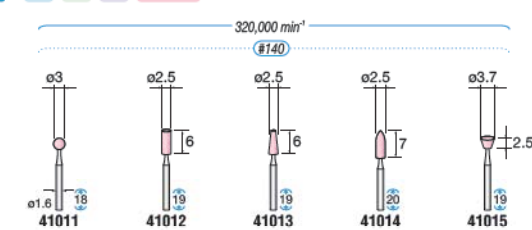
- V (vitrified)** : Mainstream of magnetic bonding material, grinding stone
- B (resinoid)** : Bonding material is mainly made of thermosetting
- R (rubber)** : Hard rubber
- E (shellac)** : Thermoplastic resin (natural resin)

**Hardness Grade**

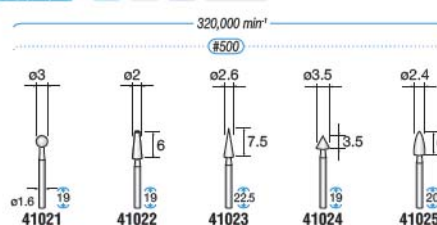
This shows bonding strength of abrasive grain, bonding materials and wear resistance of grinding stone. The Hardness Grade is measured by various instruments. The hardness is classified from A to Z, A is the softest while Z is the hardest.



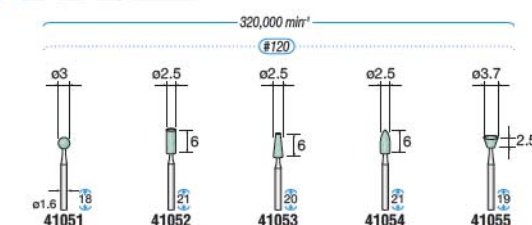
**SHANK  $\phi 1.6$**   
10 pcs./pack



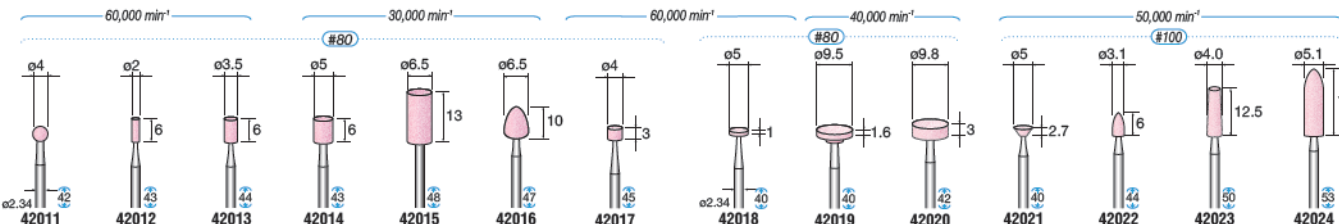
**SHANK  $\phi 1.6$**   
10 pcs./pack



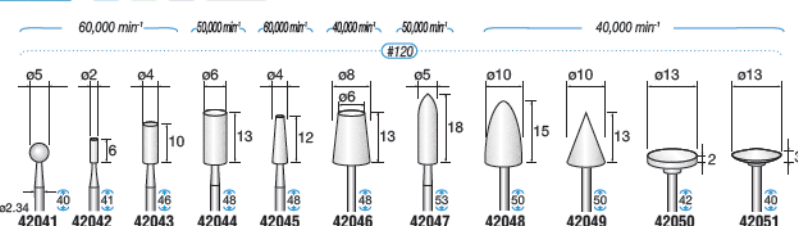
10 pcs./pack



**SHANK  $\phi 2.34$**   
10 pcs./pack



**SHANK  $\phi 2.34$**   
10 pcs./pack



10 pcs./pack

