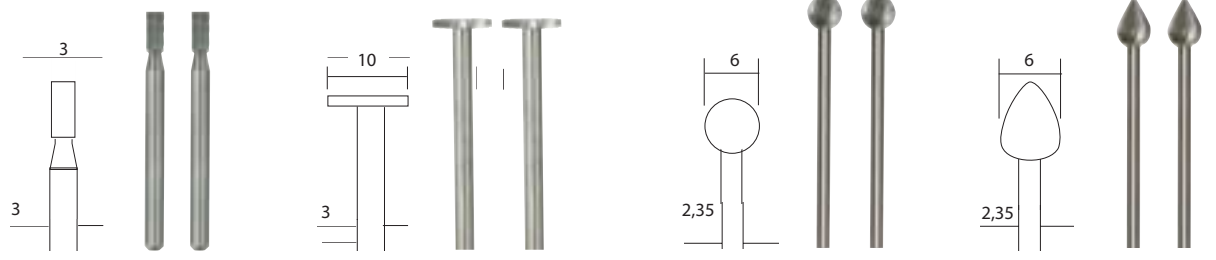




Wolfram vanadium milling bits

For
non-ferrous
metals
plastic
plaster

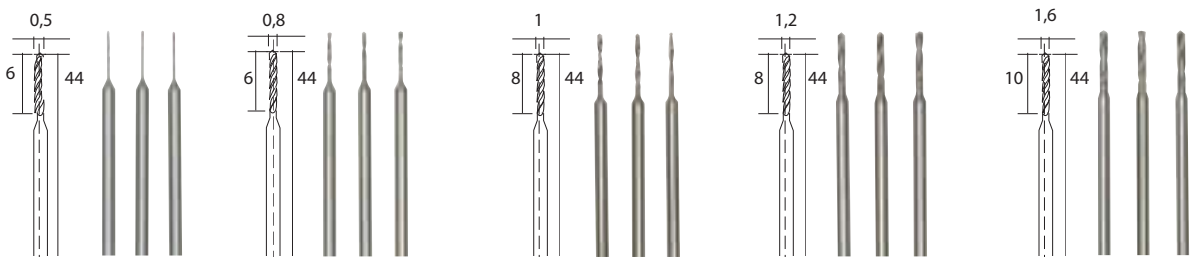


NO 28 722 **NO 28 727** **NO 28 725** **NO 28 724**

Wolfram vanadium steel milling bits Selected wolfram vanadium steel. Purpose-made stable construction with head and shaft out of a single piece of metal, as well as plastics and plaster of Paris. All shafts Ø 2.35 or 3mm. Ideal for milling, routing, shaping, profiling and slotting. For clean and

HSS drill bits

For
metal
plastic
wood

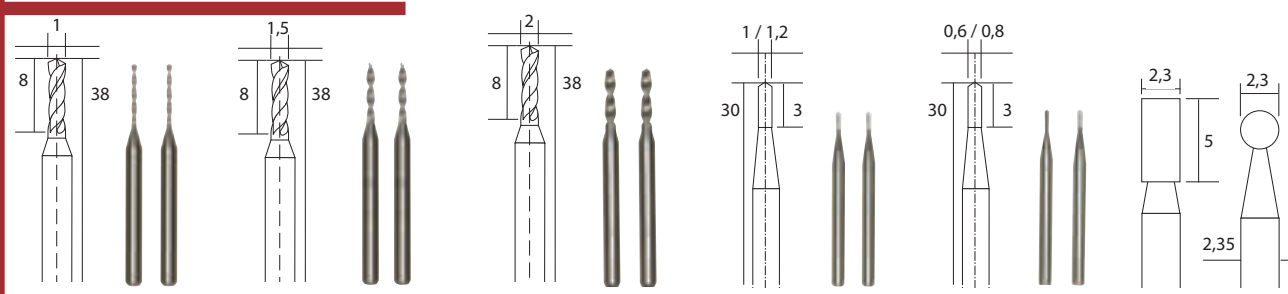


NO 28 864 **NO 28 852** **NO 28 854** **NO 28 856** **NO 28 858**

HSS drill bits. Selected steel quality. Purpose-made stable construction with high concentricity. Shaft and bit are manufactured from a one-piece blank. High hardness for optimum life expectancy and elasticity. For drilling metal, non-ferrous metals, plastic, PC cards and wood. Work speeds: soft materials approx. 8,000rpm, hard materials approx. 3,000rpm. Ø shafts 2.35.

Tungsten carbide drills and milling bits

For
steel
glass
circuit boards



NO 28 324 **NO 28 326** **NO 28 328** **NO 28 320** **NO 28 321** **NO 28 750**

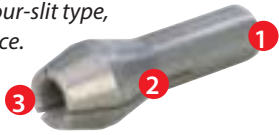
Tungsten carbide drills Made of wear-resistant tungsten carbide. For drilling glass, semiprecious stones, porcelain, ceramics, marble and other hard stones. The hard stones are subdivided according to the degree of hardness from 1 – 10. Tungsten carbide can be used up to hardness degree 6. Drilling hard stones with a hardness degree of more than 6 calls for the use of diamond tools. Shaft Ø 3. With ideal cutting angle of 6°.

Tungsten carbide milling drills (spear drills). For drilling, milling and cutting fibre glass or PERTINAX circuit boards. Also for drilling pearls and similar. Shaft Ø 2.35.

Tungsten carbide Made of wear-resistant workpieces work, for engraving

Note:

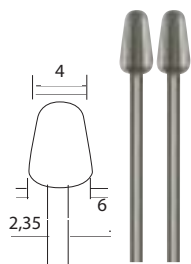
MICROMOT steel collets are hardened and thus have a high, consistent flexibility. ① They also maintain prolonged accuracy, even after regular use (these collets should not be compared with unhardened, four-slit collets of brass and aluminium). The triple slit collet is substantially more difficult to manufacture than the four-slit type, ② but offers a better load-bearing surface. This is especially important for ③ cutters with small shaft diameters.



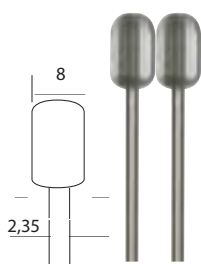
MICROMOT steel collet set



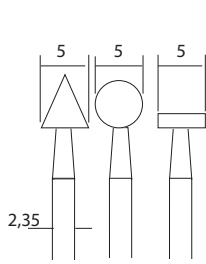
Triple slit and hardened. 1 each of 1 – 1.5 – 2 – 2.4 – 3 and 3.2. With clamping nut and holder for storage (see note at left).
NO 28 940



NO 28 723



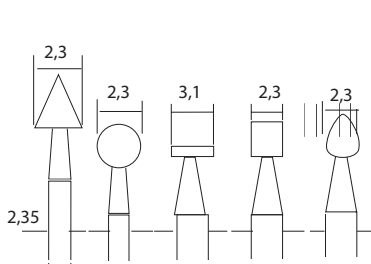
NO 28 726



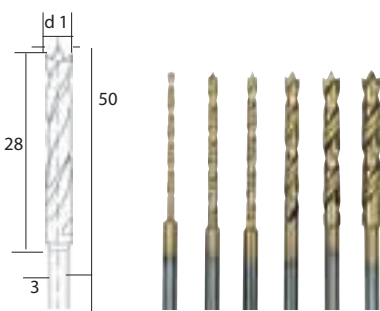
NO 28 720



NO 28 710



blank. The precise flutes and optimal concentricity ensure best life expectancy. Ideal for free-hand precision work. For use on hard and soft woods, non-ferrous and pre-powerful fitting of the milling bits we recommend the use of MICROMOT steel collets as described above See bottom left.

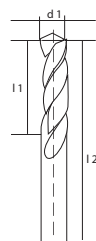


NO 28 876

Note:

The term HSS for this tool category comes from the utilised drill material. High speed steel (HSS) is a high alloy tool steel extremely resistant to wear due to its manufacturing process and is dimensionally stable up to approx. 600°C.

Cutting oil or coolant emulsion should be used as cooling lubricant, when machining steel. Spirits or petroleum should be used for aluminium. Normally, plastic and wood can be dry-machined.

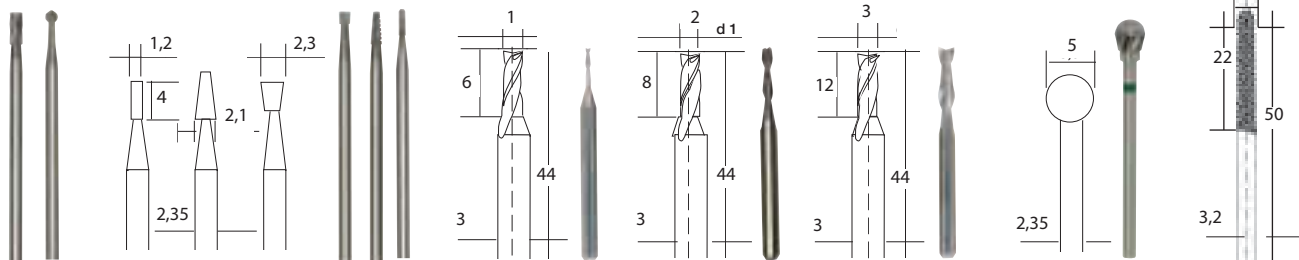


NO 28 874



HSS twist drill set with centring pin Ø 1.5 – 2 – 2.5 – 3 – 3.5 – 4.. For precision tapping of wood and plastics; also non-ferrous metal, steel and stainless steel sheets. Titanium coating reduces friction and increases service life. Shaft Ø 3, 6-piece set.

HSS twist drill in storage case 10-piece set. Similar to DIN 338 Ø 0.3 – 0.5 – 0.8 – 1 – 1.2 – 1.5 – 2 – 2.5 – 3 – 3.2. For drilling non-ferrous metal, steel and stainless steel. In labelled cassette with fold back and stand function. For clamping we recommend our 3-jaw drill chuck (see below).



NO 28 752

NO 28 758

NO 28 759

NO 28 761

NO 28 760

NO 28 757

millers

stant highlycompressed fine-granular tungsten carbide. Used for vibration-free milling of high accuracy dimensions. It is advisable to well, avoiding accidents. For milling steel, cast steel, non-ferrous metals, plastics and extremely hard materials. May be used for technical and milling of PC cards. Shafts Ø 3 or 2.35. Here also we recommend the use of MICROMOT steel collets.

Rasp cutter

For cutting and milling tiles, stoneware, wood and plastics.

Drill chuck or collet?

Drill chucks provide more convenience to quickly change the tools when working with shafts of varying diameters (e.g. HSS drills as per DIN 338). However, because of their technical setup, they have a few drawbacks compared to collets: Less clamping force and higher concentricity tolerances. If high precision is necessary, then working with MICROMOT steel collets is a must. See also note at left.

Three-jaw steel drill chuck



For all prepared MICROMOT devices. Advantageous when working with different shafts. Capacity 0.3 - 3.2.

NO 28 941

Tungsten milling cutters, 3 pieces

Two flute cutters and a fishtail profile ensure cutting to the centre, allowing boring. Usable on grey cast iron, hardened cast iron, steel, cast steel, brass, aluminium, glass and even plastics and carbon fibre. One each of 1 – 2 and 3mm. 3mm shaft diameter. Can also be ordered separately (see above).



NO 27 116