

## Wide range of needle designs

The standard marking needles are made of hard metal (hardness 92 HRC). In the standard version, the needle tips come with an angle of 90° and a tip radius of R 0.5mm.

For applications with increased demands (marking of highly stressed parts such as turbines for power generation or aircraft engines etc.) marking needles with various tip contours are available. Special needles with a special coating or also in a diamond version are available for marking extremely hard or tough materials.

Some of the shapes and lengths of the marking needles available from stock are shown below. For special applications, any special designs can also be manufactured within a few days.

**Various tip angles**  
**Various tip radii**



**Various length**

