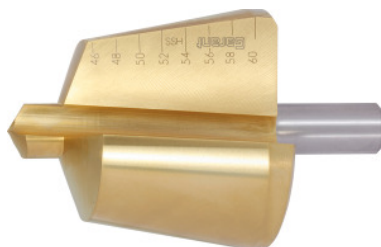


**Garant**
**Precision taper sheet and tube drill HSS, TiN, Cutter Ø DC: 46-60mm**

**Order data**

Order number	118030 46-60
GTIN	4045197036551
Item class	11C

**Description**
**Version:**

**With sharp drill point, pre-drilling not necessary.** Conically increasing cutting edges and radially relief ground circumference for a paring cut. With scale in the flutes. Three drive flats on the shank.

**TiN coating:** Higher cutting speeds and significantly longer tool life. Specially for soft materials with a tendency to smear.

**Application:**

Leaves no burr or chatter marks.

Sheet metal 0.1 – 2 mm, stainless steel 0.1 – 1 mm, non-ferrous metals: 0.1 – 5 mm, plastics up to 10 mm.

**Technical description**

Cutting edge Ø D <sub>c</sub>	46 - 60 mm
Overall length	96 mm
Shank Ø	13 mm
Coating	TiN
Tool material	HSS
Standard	Manufacturer's standard

Shank	Three drive flats shank
Colour ring	without
Type of product	Stepped drill

### User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable only under restricted conditions		
Aluminium (short chipping)	suitable only under restricted conditions		
Alu > 10% Si	suitable only under restricted conditions		
Steel < 500 N/mm <sup>2</sup>	suitable		
Steel < 750 N/mm <sup>2</sup>	suitable		
Steel < 900 N/mm <sup>2</sup>	suitable		
Steel < 1100 N/mm <sup>2</sup>	suitable		
INOX < 900 N/mm <sup>2</sup>	suitable		
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions		
GG(G)	suitable		
Oil	suitable		
wet maximum	suitable		
dry	suitable only under restricted conditions		