

**Garant**
**Solid carbide engraving cutter 60°, uncoated, Ø h6 DC: 4mm**

**Order data**

Order number	208040 4
GTIN	4045197129062
Item class	11X

**Description**
**Application:**

For engraving contours.

**Note:**
 $f_z$  for  $a_e = 1.0 \times D$ 
**Technical description**

Cutting edge Ø $D_c$	4 mm
Feed $f_z$ in steel < 900 N/mm <sup>2</sup>	0.02 mm
No. of teeth Z	1
Shank Ø $D_s$	4 mm
Flute length $L_c$	18 mm
Overall length L	50 mm
Shank	DIN 6535 HA to h6
Corner chamfer angle	60 degrees
Coating	uncoated
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Tolerance nominal Ø	h6
Countersink tip angle	60 degrees

Through-coolant	no
Shank tolerance	h6
Colour ring	without
Type of product	Indexable end mill

## User data

	Suitability	$V_c$	ISO code
Alu plastics	suitable	180 m/min	N
Aluminium (short chipping)	suitable	140 m/min	N
Alu > 10% Si	suitable	105 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	70 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	60 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	55 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	35 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	40 m/min	M
GG(G)	suitable	55 m/min	K
Uni	suitable		
wet maximum	suitable only under restricted conditions		
wet minimum	Suitable only under restricted conditions		
dry	suitable		
Air	Suitable		