

**Garant**
**Solid carbide ball nose slot drill, uncoated, Ø f8 DC: 20mm**

**Order data**

Order number	207135 20
GTIN	4045197126528
Item class	11X

**Description**
**Version:**

Full radius ball nose slot drill with long main flutes.

**Technical description**

No. of teeth Z	2
Cutting edge Ø D <sub>c</sub>	20 mm
Feed f <sub>z</sub> for side milling in steel < 900 N/mm <sup>2</sup>	0.12 mm
Feed f <sub>z</sub> for copy milling in steel < 900 N/mm <sup>2</sup>	0.135 mm
Shank Ø D <sub>s</sub>	20 mm
Overall length L	150 mm
Flute length L <sub>c</sub>	75 mm
Helix angle	30 degrees
Radius R	10 mm
Coating	uncoated
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Tolerance nominal Ø	f8
Direction of infeed	horizontal, oblique and vertical

Cutting width $a_e$ for milling operation	0.3×D for side milling
Cutting width $a_e$ for milling operation	0.05×D for side milling
Shank	DIN 6535 HA to h6
Through-coolant	no
Colour ring	without
Type of product	Ball-nosed slot drill

## User data

	Suitability	$V_c$	ISO code
Alu plastics	suitable only under restricted conditions	230 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	180 m/min	N
Alu > 10% Si	suitable only under restricted conditions	140 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	90 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	80 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	70 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	45 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	40 m/min	M
GG(G)	suitable	70 m/min	K
CuZn	suitable only under restricted conditions	160 m/min	N
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		

## Services

Shank grinding Type HB	129100 HB
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