

Garant**Solid carbide ball nose milling cutter, TiAlN, Ø DC: 12mm****Order data**

Order number	207381 12
GTIN	4045197551894
Item class	11X

Description**Version:**Tolerance: Radius contour = ± 0.01 mm.**Technical description**

Feed f_z for side milling in steel < 500 N/mm ²	0.08 mm
Cutting edge Ø D_c	12 mm
No. of teeth Z	3
Feed f_z for copy milling in steel < 500 N/mm ²	0.09 mm
Shank Ø D_s	12 mm
Overall length L	83 mm
Flute length L_c	22 mm
Helix angle	35 degrees
Radius R	6 mm
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Tolerance nominal Ø	e8
Direction of infeed	horizontal, oblique and vertical

Cutting width a_e for milling operation	0.1×D for copy milling
Cutting width a_e for milling operation	0.5×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
Steel < 500 N/mm ²	suitable	160 m/min	P
Steel < 750 N/mm ²	suitable	140 m/min	P
Steel < 900 N/mm ²	suitable	130 m/min	P
INOX < 900 N/mm ²	suitable	80 m/min	M
INOX > 900 N/mm ²	suitable	70 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	50 m/min	S
GG(G)	suitable only under restricted conditions	120 m/min	K
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		
Air	Suitable only under restricted conditions		

Services

Shank grinding Type HB	129100 HB
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