

Garant
Solid carbide milling cutter with chip separators TPC, TiAlN, Ø f8 DC: 12mm

Order data

Order number	203079 12
GTIN	4045197953834
Item class	11X

Description
Version:

High-performance slot drill for machining materials up to 60 HRC, **specially designed for TPC applications.**

Strengthened core. With corner radii similar to torus cutters.

Chip breakers for controlled chip breaking.

Note:

h_{max} : The values stated in the table are maximum values.

$a_{e max} = 0.05 \times D$ for TPC machining.

Technical description

Tolerance nominal Ø	f8
Flute length L_c	36 mm
Shank	DIN 6535 HB to h6
Overhang length L_1 incl. recess	45 mm
Balance quality with shank	G 2.5 with HB
Cutting edge Ø D_c	12 mm
Helix angle	45 degrees
Average chip thickness h_{max} for TPC milling in steel < 60 HRC	0.035 mm
No. of teeth Z	5
Overall length L	93 mm

Recess $\varnothing D_1$	11.8 mm
Direction of infeed	horizontal and oblique
Shank $\varnothing D_s$	12 mm
Corner rounding r_v	0.3 mm
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	$0.05 \times D$
Through-coolant	no
Machining strategy	TPC
Colour ring	red
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Steel < 1400 N/mm ²	suitable	150 m/min	P
Steel < 50 HRC	suitable	140 m/min	H
Steel < 55 HRC	suitable	125 m/min	H
Steel < 60 HRC	suitable	110 m/min	H
dry	Suitable only under restricted conditions		
Air	suitable		