

**Garant**
**Solid carbide milling cutter TPC, TiAlN, Ø f8 DC: 12 mm**

**Order data**

Order number	203077 12
GTIN	4045197657282
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.

**Note:**

$h_{m\ max}$ : the values stated in the table are maximum values.

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

Tolerance nominal Ø: f8

No. of teeth Z: 5

Helix angle: 45 degrees

Direction of infeed: horizontal and oblique

Shank: DIN 6535 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 5

Flute length  $L_c$ : 36 mm

Overhang length  $L_1$  incl. recess: 45 mm

Recess Ø  $D_1$ : 11.8 mm

Overall length L: 93 mm

Shank Ø  $D_s$ : 12 mm

**Technical description**

Overhang length $L_1$ incl. recess	45 mm
Recess Ø $D_1$	11.8 mm
Average chip thickness $h_{max}$ for TPC milling in steel < 60 HRC	0.035 mm

Cutting edge $\varnothing D_c$	12 mm
No. of teeth Z	5
Shank $\varnothing D_s$	12 mm
Overall length L	93 mm
Flute length $L_c$	36 mm
Direction of infeed	horizontal and oblique
Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	f8
Balance quality with shank	G 2.5 with HB
Helix angle	45 degrees
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 mill

## Services

Shank recess Type FRST	209900 FRST
Shank clamping flats for shrink-fit chucks, with retainer function Shank $\varnothing$ tool 12 mm	SZ2025 12