



Solid carbide milling cutter with chip separators TPC, TiSiN, Ø e8 DC: 12mm



Order data

Order number	203086 12
GTIN	4062406569402
Item class	12X

Description

Version:

High-performance end mill for general-purpose applications, **specially designed for TPC applications.**

Strengthened core.

Optimised bending strength due to the use of ultra-fine grain substrates.

Chip breaker for controlled chip breaking.

Note:

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

$a_{e,max} = 0.07 \times D$ for TPC machining.

Technical description

Corner chamfer angle	45 degrees
Recess Ø D ₁	11.8 mm
Corner chamfer width at 45°	0.2 mm
Overhang length L ₁ incl. recess	60 mm
Balance quality with shank	G 2.5 with HB
Tolerance nominal Ø	e8
Overall length L	110 mm
No. of teeth Z	4
Shank	DIN 6535 HB to h6
Flute length L _c	48 mm

Direction of infeed	horizontal and oblique
Cutting edge $\varnothing D_c$	12 mm
Shank $\varnothing D_s$	12 mm
Helix angle	40 degrees
Average chip thickness h_{max} for TPC milling in steel < 900 N/mm ²	0.091 mm
Coating	TiSiN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	0.07×D
Through-coolant	no
Machining strategy	TPC
Colour ring	green
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Steel < 500 N/mm ²	suitable	350 m/min	P
Steel < 750 N/mm ²	suitable	320 m/min	P
Steel < 900 N/mm ²	suitable	280 m/min	P
Steel < 1100 N/mm ²	suitable	210 m/min	P
Steel < 1400 N/mm ²	suitable	135 m/min	P
INOX < 900 N/mm ²	suitable	170 m/min	M
INOX > 900 N/mm ²	suitable	145 m/min	M
Uni	suitable		

dry	Suitable only under restricted conditions
Air	suitable