



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



Order data

Order number	203087 12
GTIN	4062406569464
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.

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

Technical description

No. of teeth Z	4
Shank	DIN 6535 HB to h6
Helix angle	40 degrees
Overhang length L_1 incl. recess	72 mm
Direction of infeed	horizontal and oblique
Overall length L	120 mm
Corner chamfer angle	45 degrees
Flute length L_c	60 mm
Corner chamfer width at 45°	0.2 mm
Recess Ø D_1	11.8 mm

Balance quality with shank	G 2.5 with HB
Shank $\varnothing D_s$	12 mm
Cutting edge $\varnothing D_c$	12 mm
Tolerance nominal \varnothing	e8
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	0.05×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	340 m/min	P
Steel < 750 N/mm ²	suitable	300 m/min	P
Steel < 900 N/mm ²	suitable	260 m/min	P
Steel < 1100 N/mm ²	suitable	190 m/min	P
Steel < 1400 N/mm ²	suitable	115 m/min	P
INOX < 900 N/mm ²	suitable	160 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	110 m/min	M
Uni	suitable		

dry	suitable
Air	suitable