



## Solid carbide milling cutter with chip separators TPC, TiSiN, Ø e8 DC: 10mm



### Order data

Order number	203087 10
GTIN	4062406569457
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

Corner chamfer width at 45°	0.16 mm
No. of teeth Z	4
Overhang length $L_1$ incl. recess	60 mm
Corner chamfer angle	45 degrees
Tolerance nominal Ø	e8
Shank	DIN 6535 HB to h6
Flute length $L_c$	50 mm
Cutting edge Ø $D_c$	10 mm
Shank Ø $D_s$	10 mm
Helix angle	40 degrees

Balance quality with shank	G 2.5 with HB
Direction of infeed	horizontal and oblique
Overall length L	104 mm
Recess $\varnothing D_1$	9.8 mm
Average chip thickness $h_{\max}$ for TPC milling in steel < 900 N/mm <sup>2</sup>	0.074 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 <sup>2</sup>	suitable	340 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	300 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	260 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	190 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	115 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	160 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	110 m/min	M
Uni	suitable		

dry	suitable
Air	suitable