

Solid carbide milling cutter with chip separators TPC, TiAIN, Ø f8 DC: 6mm



Order data

Order number	203092 6
GTIN	4067263116936
Item class	11X

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.

Offset chip breakers for controlled chip breaking.

Note:

 h_{max} : The values stated in the table are maximum values. For finishing operations we recommend items No. 204012, 204014 and 204015.

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

Successor product to No. 203089.

Technical description

Overhang length L ₁ incl. recess	25 mm	
Corner chamfer angle	45 degrees	
Shank	DIN 6535 HB to h6	
Cutting edge Ø D _c	6 mm	
Flute length L _c	18 mm	
No. of teeth Z	5	
Number of chip separators	1	
Average chip thickness h_{max} for TPC milling in Toolox 44 HRC	0.032 mm	

Data sheet

Direction of infeed	horizontal, oblique and vertical		
Shank Ø D₅	6 mm		
Helix angle	40 degrees		
Tolerance nominal Ø	f8		
Recess Ø D ₁	5.8 mm		
Balance quality with shank	G 2.5 with HB		
Corner chamfer width at 45°	0.12 mm		
Overall length L	62 mm		
Coating	TiAIN		
Tool material	Solid carbide		
Standard	Manufacturer's standard		
Туре	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	\mathbf{V}_{c}	ISO code
Steel < 500 N/mm ²	suitable	380 m/min	Р
Steel < 750 N/mm ²	suitable	340 m/min	Р
Steel < 900 N/mm ²	suitable	300 m/min	Р
Steel < 1100 N/mm ²	suitable	230 m/min	Р
Steel < 1400 N/mm ²	suitable	150 m/min	Р
TOOLOX 33	suitable	60 m/min	Н
TOOLOX 44	suitable	40 m/min	Н

Data sheet

HARDOX 500 < 1600 N/ mm ²	suitable	25 m/min	Н
INOX < 900 N/mm ²	suitable	220 m/min	М
INOX > 900 N/mm ²	suitable only under restricted conditions	150 m/min	M
Uni	suitable		
wet maximum	Suitable		
dry	Suitable only under restricted conditions		
Air	suitable		