



VEHICLES



AEROSPACE



GEARS & BEARINGS



ENGINEERING



WIND ENERGY



# TANGENTIAL MILLING CUTTER

TYP TFL-WP

# Tangential high-performance milling

If the milling task requires exact 90° shoulders or a soft-cutting tool to reduce the cutting pressure, the TFL-WP tangential milling cutter is the right choice.

- Six cutting edges per insert
- Reduced cutting forces due to positive insert geometry
- Manufacturing of exact 90° shoulders
- High level of process reliability due to maximum cross-section of cutting inserts
- An insert geometry that produces a good surface quality
- Tangential installation position and optimal pitch of the milling system resulting in improved tool life and feed

The indexable inserts are fastened interchangeably with screw clamping. Axial and circular run-out accuracy make it possible to achieve an Ra-value of 6.3 µm. The cutting material variations available for the milling system open up a wide range of materials that can be processed. GJL and GJV-cast materials can be machined in a process-reliable way with the cutting materials.



# TANGENTIAL MILLING CUTTER


TYP TFL-WP





Tangential Milling Cutter  
Ra to 6,3 µm

$v_c = 600 - 1200 \text{ m/min}$   
 $f_z = 0,12 - 0,30 \text{ mm}$   
 $a_p = \text{up to } 5 \text{ mm}$

6.3  
▽

  
Positive cutting inserts

  
Stable / unstable components

  
With / without cooling

Type	SPK order no.	Dimensions				
		D	Z	d <sub>4</sub>	h <sub>1</sub>	n <sub>max</sub> (min <sup>-1</sup> )
TFL-063-06WP0600R-AM	771.00.164.36	63	6	63	40	13000
TFL-080-08WP0600R-AM	771.00.164.46	80	8	80	50	10000
TFL-100-10WP0600R-AM	771.00.164.56	100	10	100	50	8000
TFL-125-12WP0600R-AM	771.00.164.66	125	12	125	63	8000
TFL-160-16WP0600R-AM	771.00.164.76	160	16	160	63	6000

INSERT	TYPE	GRADE	K										H	S	P	SPK ORDER NO.														
			GJL			GJS			ADI	SI GJS		GJV		STAH HART	HARTGUSS		KOKILENGUSS	SPEZ. LEGIERUNG	STAH											
WPHX 0906.. T	WPHX 090612 T00520	SL 808	EN-GJL 150	EN-GJL 200	EN-GJL 250	EN-GJL 300	EN-GJL 350	EN-GJS 400-15	EN-GJS 500-7	EN-GJS 600-3	EN-GJS 700-2	EN-GJS 800-2	EN-GJS 800-8	EN-GJS 1000-5	EN-GJS 1200-2	EN-GJS 1400-0	EN-GJS 450-18	EN-GJS 500-14	EN-GJS 600-10	EN-GJV 300	EN-GJV 350	EN-GJV 400	EN-GJV 450	EN-GJV 500	STAH HART	HARTGUSS	KOKILENGUSS	SPEZ. LEGIERUNG	STAH	17.66.035.03.1
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## ISO application group

K Cast Iron

H Hard materials

S Special alloy

P Steel

Main application ◆

Additional application ◇

