

End cutting thread mill 2.5×D, TiAIN, M: M6



Order data

Order number	139521 M6
GTIN	4062406565688
Item class	11J

Description

Version:

Tool for **combined production** of bore, chamfer and thread **in a single work step.** Pre-drilling is no longer required. The innovative centre cutting edge geometry makes this tool a specialist in thread production in **hardened and hard-to-machine materials.** The **TiAlN high-performance coating** ensures the longest possible **tool life**, especially in hardened steels **up to 63 HRC**. All tools have left-hand cutting and are suitable for **right-hand and left-hand threads.**

Note:

Always use with cooling lubricant emulsion. (Fat content minimum 8%). In the case of steels >45 HRC: can only be used with **compressed air!** Can also be used for thread size MF7×1 and MF8×1.

Technical description

Overall length L	57 mm
Thread depth	15
Thread size	M6
Number of clamping slots	4
Thread pitch	1 mm
Shank length L _s	36.4 mm
Shank Ø D _s	6 mm
Feed f_z in steel < 65 HRC	0.01 mm
Cutter length I _c	2.8 mm

Programming radius	2.27 mm		
Overhang L ₁	17.6 mm		
Cutting edge \varnothing D_{c}	4.6 mm		
Neck Ø D ₁	3.36 mm		
Through-coolant	yes		
Coating	TiAlN		
Thread type	M		
Thread type	M-LH		
Flank angle	60 degrees		
Tool material	Solid carbide		
Thread standard	DIN 13		
Shank	DIN 6535 HA with h6		
Number of cutting edges Z	4		
Application for type of drilling	up to 2×D for blind holes		
Application for type of drilling	up to 2.5×D for through holes		
Countersink angle	90 degrees		
Cutting direction	right-hand		
Shank tolerance	h6		
Colour ring	without		
Internal/external application	Internal		
Type of product	Combination drill / thread mill		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Steel < 1100 N/mm ²	suitable	90 m/min	Р
Steel < 1400 N/mm ²	suitable	90 m/min	Р
Steel < 55 HRC	suitable	45 m/min	Н
Steel < 60 HRC	suitable	40 m/min	Н

Steel < 65 HRC	suitable only under restricted conditions	35 m/min	Н
INOX < 900 N/mm ²	suitable	60 m/min	М
INOX > 900 N/mm ²	suitable	60 m/min	М
Ti > 850 N/mm ²	suitable	45 m/min	S
wet maximum	suitable		
Air	suitable		

Services

Shank grinding Type HE	129100 HE
Shank grinding Type HB	129100 HB