

End cutting thread mill 2.5×D, TiAlN, M: M16



Order data

Order number	139521 M16
GTIN	4062406568931
Item class	11J

Description

Version:

Tool for **combined production** of bore, chamfer and thread **in a single operation.** No more pre-drilling 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** achieves a top **tool life**, especially in hardened steels **up to 67 HRC**. All tools are left-hand cutting and 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!

Through-coolant: yes Thread pitch: 2 mm

Cutting edge Ø D_c: 11.7 mm Cutter length I_c: 6.3 mm Overhang L₁: 43.2 mm Shank length L_s: 37.3 mm Overall length L: 83 mm

Technical description

Number of clamping slots	4
Thread size	M16
Thread depth	40
Shank length L _s	37.3 mm
Thread pitch	2 mm

Overall length L	83 mm		
Shank Ø D _s	12 mm		
Feed f _z in steel < 65 HRC	0.01 mm		
Cutter length I _c	6.3 mm		
Programming radius	5.71 mm		
Overhang L ₁	43.2 mm		
Cutting edge Ø D _c	11.7 mm		
Neck Ø D ₁	9.36 mm		
Through-coolant	yes		
Coating	TiAlN		
Thread type	M		
Thread type	M-LH		
Flank angle	60 °		
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 °		
Cutting direction	right-hand		
Shank tolerance	h6		
Colour ring	without		
Internal/external application	Internal		
Type of product	Combination drill / thread mill		

User data

	Suitability	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	35 m/min	Н
Steel < 67 HRC	suitable	30 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 Services	suitable		

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