

GARANT Master Steel FEED solid carbide stepped drill, TiAlN, for threads: M16



Order data

Order number	125035 M16
GTIN	4062406066529
Item class	11E

Description

Version:

For generation of **optimum tapping holes.** Creates **ideal machining conditions** for the subsequent tapping tool. The cutter \emptyset of the drill is matched to the thread that is to be produced, in order to achieve a threads true to gauge and for **high process reliability of the tapping process.** The 90° counterbore for the thread is produced **in the same operation** as drilling the tapping hole.

3-flute drill, specially developed for **use at very high feed rates**. Outstandingly suitable for machines with high installed power and stable machining conditions.

Diameter tolerance first level: h7.

Thread type: M No. of teeth Z: 3

Through-coolant: yes, with 25 bar

Thread pitch: 2

Ø D₁ 1st step: 14.15 mm

Ø D₂ 2nd step with chamfer h7: 17.6 mm

Step height L₁ 1st step: 38.5 mm

Flute length L_c: 73 mm Overall length L: 123 mm

Technical description

Flute length L _c	73 mm	
for threads	M16	
Feed f in steel < 1100 N/mm ²	0.56 mm/rev.	
Ø D ₂ 2nd step with chamfer h7	17.6 mm	

Overall length L	123 mm		
Shank Ø D _s	18 mm		
Thread pitch	2		
Through-coolant	yes, with 25 bar		
No. of teeth Z	3		
Thread type	M		
Ø D ₁ 1st step	14.15 mm		
Step height L ₁ 1st step	38.5 mm		
Series	Master Steel		
Coating	TiAlN		
Tool material	Solid carbide		
Standard	Manufacturer's standard		
Tolerance nominal Ø	m7		
Point angle	145°		
Shank	DIN 6535 HA to h6		
Countersink angle	90°		
Machining strategy	HPC		
Colour ring	green		
Application for type of drilling	for blind hole and through hole		
Type of product	Stepped drill		

User data

	Suitability	V _c	ISO code
Steel < 500 N/mm ²	suitable	160 m/min	Р
Steel < 750 N/mm ²	suitable	140 m/min	Р
Steel < 900 N/mm ²	suitable	130 m/min	Р
Steel < 1100 N/mm ²	suitable	110 m/min	Р
Steel < 1400 N/mm ²	suitable	90 m/min	Р
Steel < 55 HRC	suitable	60 m/min	Н

INOX < 900 N/mm ²	suitable	60 m/min	M
INOX > 900 N/mm ²	suitable	50 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	40 m/min	S
GG	suitable	130 m/min	K
GGG	suitable	80 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		