

Garant
Solid carbide machine tap, TiAlN, M: M12

Order data

Order number	132080 M12
GTIN	4045197071095
Item class	11H

Description
Version:

Particularly **sturdy version**. For the highest performance demands.

Application:

For use only with a length compensation chuck – even on machines with synchronised spindle drives.

Recommendation:

For **very hard steels, TOOLOX** and **HARDOX materials** we recommend **deviating from the DIN data** (see table) by drilling the tapping hole \varnothing **0.05** to **0.3 mm** larger.

Thread type: M

Tool material: solid carbide

Standard: DIN 371

Tolerance class: ISO 2X 6HX

Thread pitch: 1.75 mm

Overall length L: 110 mm

Shank \varnothing D_s: 12 mm

Shank square □: 9 mm

Tapping hole \varnothing : 10.2 mm

Technical description

Number of cutting edges Z	5
Thread \varnothing	12 mm
Thread pitch	1.75 mm
Tapping hole \varnothing	10.2 mm
Number of clamping slots	5

Standard	DIN 371
Shank $\varnothing D_s$	12 mm
Overall length L	110 mm
Shank square \square	9 mm
Tolerance class	ISO 2X 6HX
Tool material	solid carbide
Thread depth	24 mm
Thread type	M
Thread size	M12
Coating	TiAlN
Flank angle	60 °
Thread standard	DIN 13
Taper lead form	D
Shank	Parallel shank to h6
Through-coolant	no
Application for type of drilling	up to 2×D for blind holes
Application for type of drilling	up to 2×D for through holes
Cutting direction	right-hand
Type of threading tool	Machine tap for dynamic machining
Colour ring	red
Type of product	Tap

User data

	Suitability	V_c	ISO code
Steel < 55 HRC	suitable	3 m/min	H
Steel < 60 HRC	suitable	2 m/min	H
Steel < 65 HRC	suitable only under restricted conditions	1 m/min	H

Steel < 67 HRC	suitable only under restricted conditions	1 m/min	H
TOOLOX 33	suitable	5 m/min	H
TOOLOX 44	suitable	4 m/min	H
HARDOX 500 < 1600 N/mm ²	suitable	3 m/min	H
Graphite, GRP, CRP	suitable only under restricted conditions	18 m/min	N
Oil	suitable		