

**Garant**
**Hand tap set nitrided, uncoated, M: M20**

**Order data**

Order number	130450 M20
GTIN	4062406089955
Item class	11G

**Description**
**Version:**

Set of three, **consisting of taper, second, and plug tap. Taper tap with long pilot.**

**Surface nitrided**, more resistant to wear.

**Recommendation:**

For **TOOLOX materials** we recommend **deviating from the DIN** data (see table) by drilling the tapping hole **0.05 to 0.3 mm** larger.

Thread type: M

Tool material: HSS E

Standard: DIN 352

Tolerance class: ISO 2X 6HX

Thread pitch: 2.5 mm

Overall length L: 95 mm

Shank  $\varnothing D_s$ : 16 mm

Shank square  $\square$ : 12 mm

Tapping hole  $\varnothing$ : 17.5 mm

**Technical description**

Thread pitch	2.5 mm
Thread $\varnothing$	20 mm
Thread depth	60 mm

Number of clamping slots	3
Shank $\varnothing D_s$	16 mm
Tolerance class	ISO 2X 6HX
Thread type	M
Overall length L	95 mm
Standard	DIN 352
Tool material	HSS E
Shank square $\square$	12 mm
Number of cutting edges Z	3
Tapping hole $\varnothing$	17.5 mm
Thread size	M20
Coating	uncoated
Flank angle	60°
Thread standard	DIN 13
Taper lead form	C
Taper lead form	A
Taper lead form	D
Shank	Plain shank with h9
Through-coolant	no
Application for type of drilling	up to 3xD for blind holes and through holes
Cutting direction	right-hand
Type of threading tool	Hand tap
Colour ring	red
Type of product	Tap

## User data

	Suitability	$V_c$	ISO code
Alu > 10% Si	suitable only under restricted conditions		

Steel < 1100 N/mm <sup>2</sup>	suitable
Steel < 1400 N/mm <sup>2</sup>	suitable
TOOLOX 33	suitable
GG(G)	suitable only under restricted conditions
Oil	suitable
dry	suitable only under restricted conditions