

Garant
**DIN counterbore for through holes, uncoated, Counterbore Ø D1 x pin Ø D2:
20X13,5 mm**

Order data

Order number	156120 20X13,5
GTIN	4045197087843
Item class	11M

Description
Version:

Spiral fluted counterbore. The pilot Ø matches the intended purpose:

f – for through holes **fine** quality to DIN ISO 273.

m for through holes **medium** quality to DIN ISO 273.

Application:

For counterboring socket head screws DIN 912, 6912, 7984, and cheese head screws ISO 1207 (DIN 84).

Note:

For suitable reducing adapters for tools with MT shanks see **No. 343000-343530**.

Shank: MT 2-3

Number of cutting edges Z: 3

for screw size: M12

for quality of the hole: m

Overall length L: 150 mm

Morse taper MT: 2

Feed f in steel < 500 N/mm²: 0.16 mm/rev.

Technical description

Pin Ø	13,5 mm
for quality of the hole	m
Counterbore Ø	20 mm
Pre-drill Ø	13.5 mm
Feed f in steel < 500 N/mm ²	0.16 mm/rev.

Number of cutting edges Z	3
for screw size	M12
Overall length L	150 mm
Morse taper MT	2
Step height L ₁ 1st step with chamfer	25 mm
Point angle	180 degrees
Coating	uncoated
Tool material	HSS
Standard	Manufacturer's standard
Shank	MT 2-3
Through-coolant	no
Type of product	Counterbore