

Garant
DIN counterbore for through holes, uncoated, Counterbore \varnothing D1 x pin \varnothing D2: 20X13mm

Order data

Order number	156020 20X13
GTIN	4045197087799
Item class	11M

Description
Version:

Spiral fluted counterbore. The pilot \varnothing 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).

Technical description

Feed f in steel < 500 N/mm ²	0.16 mm/rev.
Number of cutting edges Z	3
for quality of the hole	f
Counterbore \varnothing	20 mm
for screw size	M12
Pre-drill \varnothing	13 mm
Pin \varnothing	13 mm
Shank \varnothing D _s	12.5 mm
Overall length L	100 mm
Step height L ₁ 1st step with chamfer	22 mm

Point angle	180 degrees
Coating	uncoated
Tool material	HSS
Standard	DIN 373
Shank	Parallel shank to h9
Through-coolant	no
Type of product	Counterbore

User data

	Suitability	V_c	ISO code
Aluminium (short chipping)	suitable	33 m/min	N
Steel < 500 N/mm ²	suitable	28 m/min	P
Steel < 750 N/mm ²	suitable	27 m/min	P
wet maximum	suitable		