

**Garant**
**Subland drill HSS 90°, vaporised, for screws: M10**

**Order data**

Order number	117180 M10
GTIN	4045197036117
Item class	11C

**Description**
**Version:**

**Drill and counterbore each with its own chip flutes and guide chamfers.** This means it can be reground many times.

**Application:**

For through holes for screws to DIN-ISO 273 and countersinks to DIN 74, sheet 1 form A, fine version.

For countersunk screws to ISO 2009, 2010, 7046, 7047 (DIN 963, 964, 965 and 966).

Ø D<sub>1</sub> 1st step with chamfer h9: 10.5 mm

Ø D<sub>2</sub> 2nd step with chamfer h8: 19 mm

Step height L<sub>1</sub> 1st step: 23 mm

Flute length L<sub>c</sub>: 135 mm

Overall length L: 198 mm

Shank Ø D<sub>s</sub>: 19 mm

**Technical description**

Feed f in steel < 750 N/mm <sup>2</sup>	0.1 mm/rev.
for screws	M10
Flute length L <sub>c</sub>	135 mm
Ø D <sub>2</sub> 2nd step with chamfer h8	19 mm
Ø D <sub>1</sub> 1st step with chamfer h9	10.5 mm
Number of cutting edges Z	2
Shank Ø D <sub>s</sub>	19 mm
Overall length L	198 mm

Step height L <sub>1</sub> 1st step	23 mm
Coating	vaporised
Tool material	HSS
Standard	DIN 8374
Tolerance nominal Ø	h9
Point angle	118 degrees
Helix angle	20-30 degrees
Shank	Parallel shank to h8
Countersink angle	90 degrees
Through-coolant	no
Shank tolerance	h8
Colour ring	without
Type of product	Stepped drill