

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

**Order data**

Order number	117060 M10
GTIN	4045197035820
Item class	11C

**Description**
**Version:**

**Drill and counterbore each with its own chip flutes and guide chamfers.** This means the profile of the stepped drill is retained even after repeated regrinding.

**Application:**

**Tapping hole and countersink** are produced **in one operation**, precisely aligned.

For drilling tapping holes to DIN 336 sheet 1 with 90° countersinking (similar to DIN 69, medium version).

No. of teeth Z: 2

Through-coolant: no

Ø D<sub>1</sub> 1st step with chamfer h9: 8.5 mm

Ø D<sub>2</sub> 2nd step with chamfer h8: 11 mm

Step height L<sub>1</sub> 1st step: 25.5 mm

Flute length L<sub>c</sub>: 94 mm

Overall length L: 142 mm

Shank Ø D<sub>s</sub>: 11 mm

**Technical description**

Flute length L <sub>c</sub>	94 mm
Feed f in steel < 750 N/mm <sup>2</sup>	0.1 mm/rev.
Ø D <sub>2</sub> 2nd step with chamfer h8	11 mm
for threads	M10
Ø D <sub>1</sub> 1st step with chamfer h9	8.5 mm
Shank Ø D <sub>s</sub>	11 mm
Overall length L	142 mm

Through-coolant	no
No. of teeth Z	2
Step height L <sub>1</sub> 1st step	25.5 mm
Coating	vaporised
Tool material	HSS
Standard	DIN 8378
Tolerance nominal Ø	h9
Point angle	118 degrees
Shank	Parallel shank to h8
Helix angle	20-30 degrees
Countersink angle	90 degrees
Shank tolerance	h8
Colour ring	without
Type of product	Stepped drill