

**Garant**
**Subland drill HSS 180°, vaporised, for screws: M16**

**Order data**

Order number	117320 M16
GTIN	4045197036407
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:**

For screw through holes to DIN-ISO 273 and screw head counterbores shape H, J, and K. Medium version to DIN 74 sheet 2.

**Note:**

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

**Technical description**

Step height L <sub>1</sub> 1st step 180°	35 mm
Ø D <sub>1</sub> 1st step 180° h <sub>9</sub>	17.5 mm
Number of cutting edges Z	2
Ø D <sub>2</sub> 2nd step 180° h <sub>8</sub>	26 mm
Flute length L <sub>c</sub>	165 mm
for screws	M16
Feed f in steel < 750 N/mm <sup>2</sup>	0.2 mm/rev.
Overall length L	286 mm
Morse taper MT size	3
Coating	vaporised
Tool material	HSS

Standard	DIN 8377
Tolerance nominal $\varnothing$	h9
Point angle	118 °
Helix angle	20-30 °
Shank	Morse taper
Countersink angle	180 °
Through-coolant	no
Colour ring	without
Type of product	Stepped drill

### User data

	Suitability	$V_c$	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	45 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	40 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	30 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	25 m/min	P
GG(G)	suitable	25 m/min	K
CuZn	suitable only under restricted conditions	80 m/min	N
Oil	suitable		
wet maximum	suitable		