

HSS-E centre drill for tapping holes A with flat, uncoated, for threads: M20



Order data

Order number	111313 M20
GTIN	4062406102012
Item class	11A

Description

Version:

Stepped centre drill for tapping holes to Form A.

For **combined production** of centring, entry chamfer and tapping hole **all in a single operation.**

With additional flats on the shank.

Nominal Ø D_c: 17.5 mm

Ø D₁ 1st step with chamfer ±0.05: 21 mm

 \emptyset D₂ 2nd step: 31.5 mm

Step height L_1 1st step: 38 mm Step height L_2 2nd step: 48.3 mm for workpiece \emptyset : 290 – 320 mm

Technical description

for workpiece Ø	290 – 320 mm	
Overall length L	145 mm	
s – 0.1	29.35 mm	
Number of cutting edges Z	2	
Shank Ø D _s	31.5 mm	
Nominal Ø D _C	17.5 mm	
ed f in steel < 900 N/mm ² 0.3 mm/rev.		
Step height L ₂ 2nd step	48.3 mm	

Data sheet

Step height L ₁ 1st step	38 mm	
Ø D ₂ 2nd step	31.5 mm	
\emptyset D ₁ 1st step with chamfer ± 0.05	21 mm	
Coating	uncoated	
Tool material	HSS E	
Standard	DIN 332/2	
Туре	A	
Tolerance nominal Ø	0 / -0.05	
Countersink angle	60 °	
Cutting direction	right-hand	
Shank	Parallel shank to h7	
Through-coolant	no	
Colour ring	without	
Type of product	convex	

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	65 m/min	N
Aluminium (short chipping)	suitable	65 m/min	N
Alu > 10% Si	suitable	60 m/min	N
Steel < 500 N/mm ²	suitable	28 m/min	Р
Steel < 750 N/mm ²	suitable	30 m/min	Р
Steel < 900 N/mm ²	suitable	30 m/min	Р
Steel < 1100 N/mm ²	suitable	9 m/min	Р
Steel < 1400 N/mm ²	suitable	7 m/min	Р
INOX < 900 N/mm ²	suitable	7 m/min	М
GG(G)	suitable	28 m/min	K
CuZn	suitable	35 m/min	N

Data sheet

Oil	suitable	
wet maximum	suitable	