

Garant
Stub drill set HSS-E No. 113230, type N with case, TiN, Type: 1-10

Order data

Order number	113740 1-10
GTIN	4045197008473
Item class	11B

Description
Version:

Made up of stub drills No. 113230.
 Particularly robust and strong due to strengthened core.
 Ground flutes, with high concentricity.

Advantage:

Ideal for drilling shallow holes (approx. 2 - 4xD) on NC machines and automatic machines.

Through-coolant: no

Shank: Plain shank

Number of cutting edges Z: 2

Drill range: 1 - 10 mm

Number of drills: 19

Incremental steps of drills: 0.5 mm

Technical description

Incremental steps of drills	0.5 mm
Drill range	1 - 10 mm

Number of drills	19
Shank	Plain shank
Number of cutting edges Z	2
Coating	TiN
Tool material	HSS E
Standard	DIN 1897
Type	N
Tolerance nominal \varnothing	h8
Point angle	130°
Through-coolant	no
with case	yes
Colour ring	without
Type of product	Jobber drill

User data

	Suitability	V_c	ISO code
Steel < 500 N/mm ²	suitable	50 m/min	P
Steel < 750 N/mm ²	suitable	37 m/min	P
Steel < 900 N/mm ²	suitable	31 m/min	P
Steel < 1100 N/mm ²	suitable	12 m/min	P
Steel < 1400 N/mm ²	suitable	10 m/min	P
INOX < 900 N/mm ²	suitable	15 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	10 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	6 m/min	S
GG(G)	suitable	31 m/min	K
CuZn	suitable only under restricted conditions	100 m/min	N
Uni	suitable		

Oil	suitable
wet maximum	suitable

Accessories

Stub drill HSS-E N Ø DC h8 2,5 mm	113230 2,5
Stub drill HSS-E N Ø DC h8 4 mm	113230 4
Stub drill HSS-E N Ø DC h8 2 mm	113230 2
Stub drill HSS-E N Ø DC h8 6 mm	113230 6
Stub drill HSS-E N Ø DC h8 5 mm	113230 5
Stub drill HSS-E N Ø DC h8 5,5 mm	113230 5,5
Stub drill HSS-E N Ø DC h8 9,5 mm	113230 9,5
Stub drill HSS-E N Ø DC h8 3,5 mm	113230 3,5
Stub drill HSS-E N Ø DC h8 8 mm	113230 8
Stub drill HSS-E N Ø DC h8 3 mm	113230 3
Stub drill HSS-E N Ø DC h8 8,5 mm	113230 8,5
Stub drill HSS-E N Ø DC h8 7 mm	113230 7
Stub drill HSS-E N Ø DC h8 6,5 mm	113230 6,5
Stub drill HSS-E N Ø DC h8 9 mm	113230 9
Stub drill HSS-E N Ø DC h8 10 mm	113230 10
Stub drill HSS-E N Ø DC h8 1 mm	113230 1
Stub drill HSS-E N Ø DC h8 1,5 mm	113230 1,5
Stub drill HSS-E N Ø DC h8 4,5 mm	113230 4,5
Stub drill HSS-E N Ø DC h8 7,5 mm	113230 7,5