

Garant
High-precision countersink 90°, uncoated, External Ø Dc: 20,5mm

Order data

Order number	150378 20,5
GTIN	4045197086396
Item class	11M

Description
Version:

All countersinks have 3 cutting edges, radially relieved.

Flutes are ground from solid.

High-precision countersink, produced with tight manufacturing tolerances similar to DIN 335-C.

Technical description

Pre-drill Ø	3.5 mm
Feed f in stainless steel < 900 N/mm ²	0.16 mm/rev.
External Ø	20.5 mm
smallest countersink Ø for holes from	3.5 mm
Shank tolerance	h9
for countersunk screws DIN 7991	M10
Shank Ø D _s	10 mm
Overall length L	63 mm
Number of cutting edges Z	3
Coating	uncoated
Countersink tip angle	90 degrees
Tool material	HSS E

Standard	DIN 335 C
Shank	Plain shank with h9
Through-coolant	no
Colour ring	blue
Type of product	Stepped drill and countersink

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	70 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	33 m/min	N
Alu > 10% Si	suitable only under restricted conditions	25 m/min	N
Steel < 500 N/mm ²	suitable only under restricted conditions	28 m/min	P
Steel < 750 N/mm ²	suitable	27 m/min	P
Steel < 900 N/mm ²	suitable	27 m/min	P
Steel < 1100 N/mm ²	suitable	8 m/min	P
Steel < 1400 N/mm ²	suitable only under restricted conditions	4 m/min	P
INOX < 900 N/mm ²	suitable	7 m/min	M
INOX > 900 N/mm ²	suitable	7 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	7 m/min	S
GG(G)	suitable only under restricted conditions	12 m/min	K
CuZn	suitable only under restricted conditions	65 m/min	N
wet minimum	suitable		
dry	suitable only under restricted conditions		

