

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

Order data

Order number	150371 20,5
GTIN	4045197086143
Item class	11M

Description
Version:

All countersinks have 3 cutting edges, radially relief ground. Flutes ground from solid. High-precision countersink, produced to tight manufacturing tolerances similar to DIN 335-C **with long plain shank.**

Technical description

External Ø	20.5 mm
for countersunk screws DIN 7991	M10
Pre-drill Ø	3.5 mm
Feed f in steel < 500 N/mm ²	0.16 mm/rev.
Shank tolerance	h9
smallest countersink Ø for holes from	3.5 mm
Shank Ø D _s	10 mm
Overall length L	114 mm
Number of cutting edges Z	3
Coating	uncoated
Countersink tip angle	90 degrees
Tool material	HSS
Standard	Manufacturer's standard

Shank	Plain shank with h9
Through-coolant	no
Colour ring	without
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	33 m/min	N
Alu > 10% Si	suitable only under restricted conditions	20 m/min	N
Steel < 500 N/mm ²	suitable	28 m/min	P
Steel < 750 N/mm ²	suitable	27 m/min	P
Steel < 900 N/mm ²	suitable only under restricted conditions	27 m/min	P
wet maximum	suitable		
dry	suitable only under restricted conditions		