Garant

High-precision countersink with unequal spacing with 3 drive flats 60°, TiAIN, External Ø Dc: 20mm



Order data

Order number	150817 20
GTIN	4045197889508
Item class	11M

Description

Version:

High-precision 60° countersink with unequal spacing.

Special geometry with extremely unequal spacing and matching cutting edge preparation. Radially relief ground. Flutes ground from solid. Newly developed **special TiAIN coating** for long service life.

Three drive flats on the shank for use in a 3-jaw chuck.

Advantage:

Very smooth cutting throughout the entire countersinking operation. Chatter-free running for perfect results and **optimum tool service life.**

Application:

High-precision countersinks for production of exactly round 60° countersunk surfaces.

Technical description

Number of cutting edges Z	3	
Feed f in steel < 500 N/mm ²	0.22 mm/rev.	
Overall length L	67 mm	
Shank Ø D _s	10 mm	
External Ø	20 mm	
smallest countersink Ø for holes from	5 mm	
Coating	TiAIN	

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Countersink tip angle	60 degrees	
Tool material	HSS	
Spacing of the countersink cutting edges	unequal spacing	
Standard	DIN 334	
Shank	Three clamping flats to h9	
Through-coolant	no	
Colour ring green		
Type of product	Stepped drill and countersink	

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	75 m/min	Ν
Aluminium (short chipping)	suitable	75 m/min	Ν
Alu > 10% Si	suitable	50 m/min	Ν
Steel < 500 N/mm ²	suitable	65 m/min	Р
Steel < 750 N/mm ²	suitable	50 m/min	Р
Steel < 900 N/mm ²	suitable	30 m/min	Р
Steel < 1100 N/mm ²	suitable	18 m/min	Р
Steel < 1400 N/mm ²	suitable	8 m/min	Р
Steel < 55 HRC	suitable only under restricted conditions	8 m/min	н
INOX < 900 N/mm ²	suitable	16 m/min	М
INOX > 900 N/mm ²	suitable	10 m/min	М
Ti > 850 N/mm²	suitable only under restricted conditions	12 m/min	S
GG(G)	suitable	25 m/min	К
CuZn	suitable	60 m/min	Ν
Graphite, GRP, CRP	suitable only under restricted conditions		

Uni	suitable	
wet maximum	suitable	
dry	suitable only under restricted conditions	