

GARANT Master Steel HT high-precision countersink with unequal spacing 90°, TiAIN, External Ø Dc: 12,4mm



Order data

Order number	150350 12,4
GTIN	4067263125334
Item class	15B

Description

Version:

Countersinks with 3 convex unequally spaced cutting edges for chatter-free countersinking and deburring. Robust design and special geometry with variable pitch of the spiral cutting edges for the highest demands – even in difficult-to-machine materials such as Toolox 44 and Hardox 500. Significantly reduced radial and axial forces. Manufactured with narrower production tolerances than specified by DIN335-C.

Advantage:

High self-guidance and stability due to the convex cutting edge geometry. Chatter-free running for excellent results with long tool life at the same time.

Application:

High-precision countersinks for production of exactly round 90° countersunk surfaces in steel, cast iron and materials that are challenging to machine. Exceptionally well suited for use on hand-held power drills and single-pillar drilling machines.

Technical description

External Ø	12.4 mm
smallest countersink Ø for holes from	3.3 mm
Number of cutting edges Z	3
Shank Ø D _s	8 mm
for countersunk screws DIN 7991	M6

Data sheet

Overall length L	56 mm		
Feed f in steel < 1400 N/mm ²	0.1 mm/rev.		
Coating	TiAlN		
Countersink tip angle	90 degrees		
Tool material	HSS E		
Spacing of the countersink cutting edges	unequal spacing		
Standard	DIN 335 C		
Shank	Plain shank with h9		
Through-coolant	no		
Colour ring	red		
Series	Master Steel		
Type of product	Stepped drill and countersink		

User data

	Suitability	V _c	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	72 m/min	N
Alu > 10% Si	suitable only under restricted conditions	58 m/min	N
Steel < 500 N/mm ²	suitable	42 m/min	Р
Steel < 750 N/mm²	suitable	35 m/min	Р
Steel < 900 N/mm ²	suitable	31 m/min	Р
Steel < 1100 N/mm ²	suitable	19 m/min	Р
Steel < 1400 N/mm ²	suitable	15 m/min	Р
TOOLOX 33	suitable	14 m/min	Н
TOOLOX 44	suitable	13 m/min	Н
HARDOX 500 < 1600 N/ mm ²	suitable	10 m/min	Н
INOX < 900 N/mm ²	suitable only under restricted conditions	17 m/min	М

Data sheet

INOX > 900 N/mm ²	suitable only under restricted conditions	13 m/min	М
Ti > 850 N/mm ²	suitable only under restricted conditions	10 m/min	S
GG(G)	suitable	29 m/min	K
Oil	suitable only under restricted conditions		
wet maximum	suitable		
dry	suitable only under restricted conditions		