

Garant**GARANT Master Steel HT countersink set No. 150350 in a case 90°, TiAlN,
Number of countersinks: 5****Order data**

Order number	150354 5
GTIN	4067263125570
Item class	15B

Description**Version:**

Countersink sets **in a case**. Handy for assembly and workshop use.

Application:

High precision countersinks for chatter-free countersinking.

Content:

1 pc. each countersink: Sizes 6.3; 10.4; 16.5; 20.5; 25

Note:

Empty case for 5 countersinks, see No. 150368 5 commodity group 15.

Technical description

Number of countersinks	5
Number of cutting edges Z	3
Series	Master Steel
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
Colour ring	red
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	P
Steel < 750 N/mm ²	suitable	35 m/min	P
Steel < 900 N/mm ²	suitable	31 m/min	P
Steel < 1100 N/mm ²	suitable	19 m/min	P
Steel < 1400 N/mm ²	suitable	15 m/min	P
TOOLOX 33	suitable	14 m/min	H
TOOLOX 44	suitable	13 m/min	H
HARDOX 500 < 1600 N/mm ²	suitable	10 m/min	H
INOX < 900 N/mm ²	suitable only under restricted conditions	17 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	13 m/min	M
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

Accessories

GARANT Master Steel HT high-precision countersink with unequal spacing 90° External Ø Dc 10,4 mm	150350 10,4
GARANT Master Steel HT high-precision countersink with unequal spacing 90° External Ø Dc 16,5 mm	150350 16,5
GARANT Master Steel HT high-precision countersink with unequal spacing 90° External Ø Dc 20,5 mm	150350 20,5
GARANT Master Steel HT high-precision countersink with unequal spacing 90° External Ø Dc 25 mm	150350 25
GARANT Master Steel HT high-precision countersink with unequal spacing 90° External Ø Dc 6,3 mm	150350 6,3
Empty case for number of countersinks 5	150368 5