Garant

GARANT Master Steel SPEED solid carbide drill, Weldon shank DIN 6535 HB, TIAIN, Ø DC h7: 4,3 mm



Order data

Order number	122416 4,3
GTIN	4045197790149
Item class	11E

Description

Version:

Developed for use with **very high cutting speeds**. Outstandingly suitable for machines with **low installed power** and high speeds.

- · Clear reduction in cutting forces due to special cutter geometry.
- · Coating for best wear resistance even at high process temperatures.
- · Polished flutes for good chip clearance.
- A slim chisel point and the special arrangement of the 4 guide chamfers ensure high positioning and alignment accuracy. Optimised micro-geometry for increased working life and performance capability.

Recommendation:

Maximum drilling depth:

clamping slot length (see table) less $1.5 \times nominal \emptyset$.

Note:

Flute length $L_c = L_2 + 1.5 \times D_c$. Standard: DIN 6537 K Tolerance nominal Ø: h7 Number of cutting edges Z: 2 Tolerance nominal Ø: h7 recommended maximum drilling depth L₂: 17.6 mm Overall length L: 66 mm Shank Ø D_s: 6 mm Feed f in steel < 1100 N/mm²: 0.16 mm/rev.

Technical description

Flute length L_c

24 mm

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StandardDIN 6537 KOverall length L66 mmNumber of cutting edges Z2Feed f in steel < 1100 N/mm²0.16 mm/rev.Nominal Ø Dc4.3 mmShank toleranceh6recommended maximum drilling depth L₂17.6 mmSeriesGARANT Master SteelCoatingTiAINTool materialsolid carbideDrill depth up to4×DPoint angle135 degreesShankDIN 6535 HB to h6Through-coolantnoMachining strategyHPCSemi-Standardyes	Tolerance nominal Ø	h7
Overall length L66 mmNumber of cutting edges Z2Feed f in steel < 1100 N/mm²	Shank Ø D _s	6 mm
Number of cutting edges Z2Feed f in steel < 1100 N/mm²	Standard	DIN 6537 K
Feed f in steel < 1100 N/mm²0.16 mm/rev.Nominal Ø Dc4.3 mmShank toleranceh6recommended maximum drilling depth L217.6 mmSeriesGARANT Master SteelCoatingTiAINTool materialsolid carbideDrill depth up to4×DPoint angle135 degreesShankDIN 6535 HB to h6Through-coolantnoMachining strategyHPCSemi-StandardyesColour ringgreen	Overall length L	66 mm
Nominal Ø Dc4.3 mmShank toleranceh6recommended maximum drilling depth L217.6 mmSeriesGARANT Master SteelCoatingTiAINTool materialSolid carbideDrill depth up to4×DPoint angle135 degreesShankDIN 6535 HB to h6Through-coolantHPCMachining strategyyesColour ringgreen	Number of cutting edges Z	2
Shank toleranceh6recommended maximum drilling depth L217.6 mmSeriesGARANT Master SteelCoatingTiAINTool materialSolid carbideDrill depth up to4×DPoint angle135 degreesShankDIN 6535 HB to h6Through-coolantnoMachining strategyHPCSemi-StandardyesColour ringgreen	Feed f in steel < 1100 N/mm ²	0.16 mm/rev.
recommended maximum drilling depth L ₂ 17.6 mm Series GARANT Master Steel Coating TiAlN Tool material Solid carbide Drill depth up to 4×D Point angle 135 degrees Shank DIN 6535 HB to h6 Through-coolant no Machining strategy AL	Nominal Ø D _c	4.3 mm
SeriesGARANT Master SteelCoatingTiAINTool materialsolid carbideDrill depth up to4×DPoint angle135 degreesShankDIN 6535 HB to h6Through-coolantnoMachining strategyHPCSemi-StandardyesColour ringgreen	Shank tolerance	h6
CoatingTiAINTool materialSolid carbideDrill depth up to4×DPoint angle135 degreesShankDIN 6535 HB to h6Through-coolantnoMachining strategyHPCSemi-StandardyesColour ringgreen	recommended maximum drilling depth L_2	17.6 mm
Tool materialsolid carbideDrill depth up to4×DPoint angle135 degreesShankDIN 6535 HB to h6Through-coolantnoMachining strategyHPCSemi-StandardyesColour ringgreen	Series	GARANT Master Steel
Drill depth up to4×DPoint angle135 degreesShankDIN 6535 HB to h6Through-coolantnoMachining strategyHPCSemi-StandardyesColour ringgreen	Coating	TiAIN
Point angle135 degreesShankDIN 6535 HB to h6Through-coolantnoMachining strategyHPCSemi-StandardyesColour ringgreen	Tool material	solid carbide
ShankDIN 6535 HB to h6Through-coolantnoMachining strategyHPCSemi-StandardyesColour ringgreen	Drill depth up to	4×D
Through-coolantnoMachining strategyHPCSemi-StandardyesColour ringgreen	Point angle	135 degrees
Machining strategyHPCSemi-StandardyesColour ringgreen	Shank	DIN 6535 HB to h6
Semi-Standard yes Colour ring green	Through-coolant	no
Colour ring green	Machining strategy	HPC
	Semi-Standard	yes
Type of product Jobber drill	Colour ring	green
	Type of product	Jobber drill