

Garant

GARANT Master Steel DEEP solid carbide pilot drill, plain shank DIN 6535 HA 6xD, TiAlN, Ø DC: 3mm



Order data

Order number	123885 3
GTIN	4062406266264
Item class	11E

Description

Version:

Excellent chip evacuation due to the unequal helical pitch of the flutes, guide rings and additional guide chamfers for very high precision when drilling. **Maximum process reliability** due to exactly matching tools within the overall system. Drilling up to the maximum depth without a pilot drill. **Significantly increased tool stability** due to the substantially strengthened core. **Increased metal removal rates** and **outstanding tool lives** lead to an economical high-end drilling process.

Strong core and special point geometry for high centring accuracy. 140° tip angle and special p6 cutting tolerance for optimum generation of a pilot hole for subsequent use of the GARANT Master Steel deep hole drill.

Note:

Flute length $L_c = L_2 + 1.5 \times D_c$.

Form HB and HE supplied at the same price as HA.

Form **HB**: order with **No. 123886**.

Form **HE**: order with **No. 123885 + 129100HE**.

Machining strategy: HPC

Standard: Manufacturer's standard

Tolerance nominal Ø: p6

Number of cutting edges Z: 2

Tolerance nominal Ø: p6

recommended maximum drilling depth L_2 : 23.5 mm

Overall length L: 66 mm

Shank Ø D_s : 6 mm

Feed f in steel $< 900 \text{ N/mm}^2$: 0.08 mm/rev.

Technical description

Flute length L_c	28 mm
Overall length L	66 mm
Number of cutting edges Z	2
Tolerance nominal \varnothing	p6
Shank $\varnothing D_s$	6 mm
recommended maximum drilling depth L_2	23.5 mm
Nominal $\varnothing D_c$	3 mm
Standard	Manufacturer's standard
Feed f in steel < 900 N/mm ²	0.08 mm/rev.
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Version	6×D
Point angle	140°
Shank	DIN 6535 HA to h6
Through-coolant	yes, with 40 bar
Machining strategy	HPC
Colour ring	green
Type of product	Jobber drill

User data

	Suitability	V_c	ISO code
Steel < 500 N/mm ²	suitable	170 m/min	P
Steel < 750 N/mm ²	suitable	150 m/min	P
Steel < 900 N/mm ²	suitable	130 m/min	P
Steel < 1100 N/mm ²	suitable	110 m/min	P
Steel < 1400 N/mm ²	suitable	90 m/min	P
INOX < 900 N/mm ²	suitable	75 m/min	M

INOX > 900 N/mm ²	suitable	70 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	35 m/min	S
GG(G)	suitable	120 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		