

Garant**GARANT Master Steel solid carbide high-performance drill, plain shank DIN 6535 HA, TiAlN, Ø DC h7: 4,76-Xmm****Order data**

Order number	123240 4,76-X
GTIN	4069515041072
Item class	11E

Description**Version:**

Robust drill design and optimised special point geometry for the **best possible chip formation and reliable chip breakage** with **higher feed rates at the same time**. **Advanced micro-geometry, convex** cutting edge and **conical profile grinding** to provide additional stability for the main cutting edge. **Optimised flute geometry and patented face geometry** for **reliable chip evacuation** in steel materials and cast material. **High-performance coating** of the latest generation.

Note:

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

For process reliability when using the 12xD drill, an initial centre drilling with No. 121068 – 121130 is recommended.

HB and **HE** shanks are available at the same price as HA.

For **HB shanks**: use order **no. 123241**.

For **HE shanks**: use order **No. 123240 + 129100HE**. Delivery time: 8 working weeks.

Minimum order quantity: 3 pieces

Items made to order for a specific customer: Cancellation only up to a maximum of 3 working days after receipt of order acknowledgement. Items cannot be returned. We reserve the right to over-deliver or under-deliver by +/-10% (minimum 1 piece).

Technical description

Number of cutting edges Z	2
Shank Ø D _s	6 mm
Tolerance nominal Ø	h7

Data sheet

Flute length L_c	78 mm
Standard	Works standard
Ø range	4.76 - 6.05 mm
Overall length L	116 mm
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Version	12xD
Point angle	135 degrees
Shank	DIN 6535 HA to h6
Through-coolant	yes, with 25 bar
Machining strategy	HPC
Semi-Standard	yes
Type of product	Jobber drill

User data

	Suitability	V_c	ISO code
Steel < 500 N/mm ²	suitable	130 m/min	P
Steel < 750 N/mm ²	suitable	120 m/min	P
Steel < 900 N/mm ²	suitable	110 m/min	P
Steel < 1100 N/mm ²	suitable	100 m/min	P
Steel < 1400 N/mm ²	suitable	80 m/min	P
GG(G)	suitable	95 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air	suitable		