

GARANT Master Steel FEED solid carbide drill, plain shank DIN 6535 HA, TiAIN, Ø DC h7 (mm or inch): 20



Order data

Order number	123035 20		
GTIN	4045197840219		
Item class	11E		

Description

Version:

3-flute drill, specially developed for **use at very high feed rates**. Outstandingly suitable for **machines with high installed power** and stable operating conditions.

- Special cutter geometry with stable cutting edges and large clearance at the centre enables very high feed rates.
- The patented tip is optimised for chip flow and generates low cutting pressure with good chip breakage.

The sector-leading technology of the drill point guarantees optimum self-centring behaviour. 3 guide chamfers guarantee a stable exit from the hole and an exact roundness of the hole.

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. 123036.

Form **HE**: order with **No. 123035 + 129100HE**.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7 Number of cutting edges Z: 3 Tolerance nominal Ø: h7

recommended maximum drilling depth L₂: 160 mm

Overall length L: 243 mm Shank Ø D₆: 20 mm

Feed f in steel < 1100 N/mm²: 0.69 mm/rev.

Technical description



Nominal Ø D _c	20 mm		
Flute length L _c	190 mm		
recommended maximum drilling depth L ₂	maximum drilling depth L ₂ 160 mm		
Standard	Manufacturer's standard		
Feed f in steel < 1100 N/mm ²	0.69 mm/rev.		
Tolerance nominal Ø	h7		
Number of cutting edges Z	3		
Shank Ø D _s	20 mm		
Overall length L	243 mm		
Series	Master Steel		
Coating	TiAlN		
Tool material	Solid carbide		
Version	8×D		
Point angle	140°		
Shank	DIN 6535 HA to h6		
Through-coolant	yes, to 25 bar		
Machining strategy	HPC		
Semi-Standard	yes		
Colour ring	green		
Type of product	Jobber drill		

User data

	Suitability	V _c	ISO code
Steel < 500 N/mm ²	suitable	120 m/min	Р
Steel < 750 N/mm ²	suitable	110 m/min	Р
Steel < 900 N/mm ²	suitable	100 m/min	Р
Steel < 1100 N/mm ²	suitable	90 m/min	Р
Steel < 1400 N/mm ²	suitable	70 m/min	Р
Steel < 55 HRC	suitable	60 m/min	Н



INOX < 900 N/mm ²	suitable	55 m/min	M
INOX > 900 N/mm ²	suitable	50 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	40 m/min	S
GG	suitable	120 m/min	K
GGG	suitable	80 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum Services	suitable		

Shank grinding Type HE 129100 HE