

Garant

Solid carbide HPC drill type FS plain shank DIN 6535 HA, TiAlN, Ø DC h7: 18 mm



Order data

Order number	122670 18
GTIN	4045197057181
Item class	11E

Description

Version:

Particularly strong due to strengthened core and **special profile**. Special point geometry. **High concentricity** and **long tool life**.

High bore quality.

Recommendation:

Maximum drilling depth:

flute length (see table) less $1.5 \times$ nominal \varnothing .

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. 122675**.

Form **HE**: order with **No. 122670 + 129100HE**.

Standard: DIN 6537

Tolerance nominal \varnothing : h7

Number of cutting edges Z: 2

Tolerance nominal \varnothing : h7

recommended maximum drilling depth L_2 : 66 mm

Overall length L: 143 mm

Shank $\varnothing D_s$: 18 mm

Feed f in titanium $> 850 \text{ N/mm}^2$: 0.2 mm/rev.

Technical description

Flute length L_c	93 mm
Number of cutting edges Z	2

Shank tolerance	h6
Nominal $\varnothing D_c$	18 mm
Feed f in titanium > 850 N/mm ²	0.2 mm/rev.
Tolerance nominal \varnothing	h7
Shank $\varnothing D_s$	18 mm
Overall length L	143 mm
Standard	DIN 6537
recommended maximum drilling depth L ₂	66 mm
Coating	TiAlN
Tool material	Solid carbide
	6×D
Type	FS
Point angle	140°
Shank	DIN 6535 HA to h6
Through-coolant	yes, with 25 bar
Machining strategy	HPC
Semi-Standard	yes
Colour ring	pink
Type of product	Jobber drill

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	260 m/min	N
Aluminium (short chipping)	suitable	240 m/min	N
Alu > 10% Si	suitable	160 m/min	N
Steel < 500 N/mm ²	suitable	110 m/min	P
Steel < 750 N/mm ²	suitable	90 m/min	P
Steel < 900 N/mm ²	suitable	85 m/min	P

Steel < 1100 N/mm ²	suitable	60 m/min	P
Steel < 1400 N/mm ²	suitable only under restricted conditions	30 m/min	P
INOX < 900 N/mm ²	suitable	40 m/min	M
INOX > 900 N/mm ²	suitable	35 m/min	M
Ti > 850 N/mm ²	suitable	35 m/min	S
wet maximum	suitable		
wet minimum	suitable		
Air	suitable		
Services			

Shank grinding Type HE

129100 HE