Hoffmann Group

Garant

Solid carbide HPC drill, plain shank DIN 6535 HA, DLC, Ø DC h7: 2,31-Xmm

Order data

Order number	123178 2,31-X
GTIN	4062406080204
Item class	11E

Description

Version:

DLC coating sp^2 of the latest generation with **low coefficient of friction** results in **outstanding chip clearance.** For **high-performance milling** of **aluminium materials**. **High roundness** and **alignment accuracy of the deep hole**, thanks to **6 guide chamfers.**

Note:

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

For process reliability when using the 12×D drill, an initial centre drilling with NC spotting drills No. 121068– 121130 is necessary.

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

Order form **HB:** with **No. 123179**.

Order form **HE:** with **No. 123178 + 129100HE**. Delivery time: 12 working weeks

Minimum order quantity: 3 pcs

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

Tolerance nominal Ø	h7
Number of cutting edges Z	2
Standard	Manufacturer's standard
Overall length L	81 mm
Shank Ø D_s	4 mm
Feed f in aluminium short-chipping	0.22 mm/rev.

Flute length L_c	40 mm
Ø range	2.31 - 2.6 mm
Coating	DLC
Tool material	solid carbide
Version	12×D
Type	W
Point angle	135 degrees
Shank	DIN 6535 HA to h6
Through-coolant	yes, with 25 bar
Machining strategy	HPC
Semi-Standard	yes
Colour ring	yellow
Type of product	Jobber drill

User data

	Suitability	V_c	ISO code
Alu plastics	suitable	250 m/min	N
Aluminium (short chipping)	suitable	280 m/min	N
Alu > 10% Si	suitable	245 m/min	N
PMMA acrylic	suitable	105 m/min	N
PEEK	suitable	85 m/min	N
PVDF GF20	suitable	60 m/min	N
PA 66 GF30	suitable	55 m/min	N
PEEK GF30	suitable	50 m/min	N
PTFE CF25	suitable	55 m/min	N
Cu	suitable	120 m/min	N
CuZn	suitable	150 m/min	N
GRP	suitable	55 m/min	N

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CRP	suitable	55 m/min	N
wet maximum	suitable		
wet minimum	suitable		