

Solid carbide HPC drill plain shank DIN 6535 HA, TiAIN, Ø DC h7: 13,5mm



Order data

| Order number | 123301 13,5 |
|--------------|---------------|
| GTIN | 4045197452597 |
| Item class | 11E |

Description

Version:

Cutting chisel edge with **high centring accuracy** due to **strong core and special point geometry.**

Particularly high alignment accuracy due to **4 guide chamfers** which stabilise the drill even at extreme depths!

Convex cutting edges with honed edges and special flute profile for **short chips**, even on long chipping materials.

Advantage:

High process reliability and surface quality of the hole.

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.

Form HB: order with No. 123302.

Form **HE**: order with **No. 123301 + 129100HE**.

NEW GENERATION AVAILABLE!

Recommended successor products are No. 123225 and 123235.

Technical description

| Flute length L _c | 182 mm | |
|--|--------------|--|
| Feed f in steel < 1100 N/mm ² | 0.26 mm/rev. | |
| Number of cutting edges Z | 2 | |
| Nominal Ø D _c | 13.5 mm | |
| Shank tolerance | h6 | |

| Tolerance nominal Ø | h7 | | |
|---|-------------------------|--|--|
| Shank Ø D _s | 14 mm | | |
| Overall length L | 230 mm | | |
| Standard | Manufacturer's standard | | |
| recommended maximum drilling depth L ₂ | 161.8 mm | | |
| Coating | TiAlN | | |
| Tool material | Solid carbide | | |
| Version | 12×D | | |
| Point angle | 135 degrees | | |
| Shank | DIN 6535 HA to h6 | | |
| Through-coolant | yes, with 25 bar | | |
| Machining strategy | HPC | | |
| Semi-Standard | yes | | |
| Colour ring | green | | |
| Type of product | Jobber drill | | |

User data

| | Suitability | \mathbf{V}_{c} | ISO code |
|--------------------------------|---|------------------|----------|
| Aluminium (short chipping) | suitable only under restricted conditions | 180 m/min | N |
| Alu > 10% Si | suitable only under restricted conditions | 140 m/min | N |
| Steel < 500 N/mm ² | suitable only under restricted conditions | 110 m/min | Р |
| Steel < 750 N/mm ² | suitable | 90 m/min | Р |
| Steel < 900 N/mm ² | suitable | 80 m/min | Р |
| Steel < 1100 N/mm ² | suitable | 50 m/min | Р |
| Steel < 1400 N/mm ² | suitable | 35 m/min | Р |
| INOX < 900 N/mm ² | suitable only under restricted conditions | 40 m/min | М |

| INOX > 900 N/mm ² | suitable only under restricted conditions | 35 m/min | М |
|------------------------------|---|----------|---|
| GG(G) | suitable | 70 m/min | K |
| Uni | suitable | | |
| wet maximum Services | suitable | | |

Shank grinding Type HE

129100 HE