

# FRAISE-À-CHANFREINER-45°-MD-E2 · BEVEL-MILLING-CUTTER-45°-SC-E2 · FASENFRÄSER-45°-HM-E2



21730-4

Version 22.06.2026

SWISS MADE

E2

E2 HIGH PRECISION TOOL MATERIAL

$\lambda = 0^\circ$   
 $\gamma = 8^\circ$

TOOL ANGLES LAMBDA 0° GAMMA 8°



V-GROOVE CHAMFER TOOL SHAPE



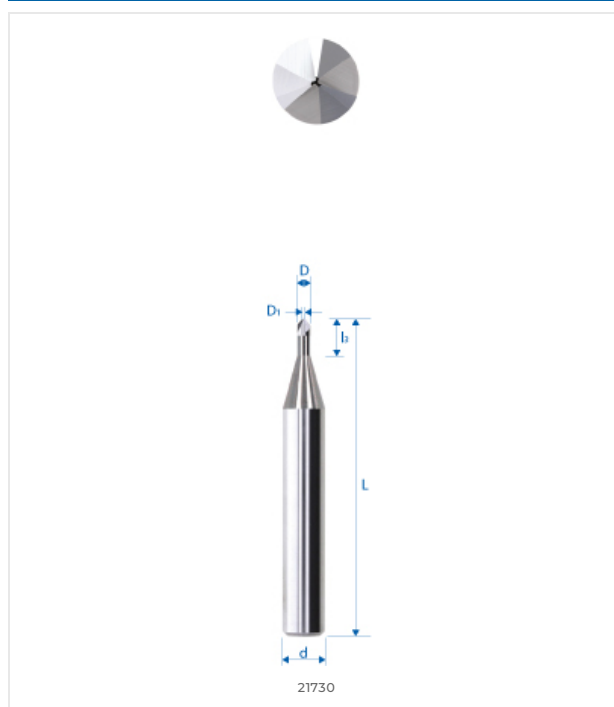
LATERAL CUTTING TWIST DRILL BIT

## MATERIAL COMPATIBILITY

●●● Excellent (3/3) ●● Good (2/3) ●○ Possible (1/3) ○○ Not recommended

| MATERIAL                                                    | SPECIFICATION                | GRP | 21730-4 |
|-------------------------------------------------------------|------------------------------|-----|---------|
| <b>Alloyed and non-alloyed steels</b><br>Non-alloyed steels | Rm < 450 N/mm <sup>2</sup>   | 1a  | ●○      |
|                                                             | Rm 450–700 N/mm <sup>2</sup> | 1b  | ●○      |
|                                                             | Rm 700–900 N/mm <sup>2</sup> | 1c  | ●○      |
|                                                             | Rm > 1200 N/mm <sup>2</sup>  | 1d  | ○○      |
| <b>Stainless steels</b><br>Stainless steels                 | Rm < 650 N/mm <sup>2</sup>   | 2a  | ●○      |
|                                                             | Rm 650–950 N/mm <sup>2</sup> | 2b  | ●○      |
|                                                             | Rm > 950 N/mm <sup>2</sup>   | 2c  | ○○      |
| <b>Hardened steels</b><br>Hardened steels                   | 44–56 HRC                    | 3a  | ○○      |
|                                                             | 57–67 HRC                    | 3b  | ○○      |
| <b>Exotic materials</b><br>Special alloys                   | < 32 HRC                     | 4a  | ○○      |
|                                                             | > 32 HRC                     | 4b  | ○○      |
| <b>Graphite</b><br>Industrial graphite                      |                              | 5   | ●○      |
| <b>Cast iron</b><br>Grey / nodular cast iron                | < 32 HRC                     | 6a  | ○○      |
|                                                             | > 32 HRC                     | 6b  | ○○      |
| <b>Titanium</b><br>Titanium alloys                          | Rm < 600 N/mm <sup>2</sup>   | 7a  | ●○      |
|                                                             | 600 < Rm N/mm <sup>2</sup>   | 7b  | ●○      |
| <b>Nickel alloys</b><br>Inconel, Hastelloy                  | Rm < 1000 N/mm <sup>2</sup>  | 8a  | ○○      |
|                                                             | Rm > 1000 N/mm <sup>2</sup>  | 8b  | ○○      |
| <b>Copper, brass, bronze</b><br>Copper-based                | Rm < 850 N/mm <sup>2</sup>   | 9a  | ●●●     |
|                                                             | Rm > 850 N/mm <sup>2</sup>   | 9b  | ●●●     |
| <b>Aluminum</b><br>Aluminum alloys                          | Si < 0.5%                    | 10a | ●●●     |
|                                                             | 0.5% < Si < 5%               | 10b | ●●●     |
|                                                             | Si > 5%                      | 10c | ○○      |
| <b>Synthetic materials</b><br>Engineering plastics          | Thermoplastic                | 11a | ●●●     |
|                                                             | Thermoset                    | 11b | ●●●     |
| <b>Composite materials</b><br>Reinforced composites         | Glass fiber / GFK            | 12a | ●○      |
|                                                             | Carbon fiber / KFK           | 12b | ●○      |
| <b>Precious metals</b><br>Gold, platinum, silver            | Gold                         | 13a | ●●●     |
|                                                             | Platinum                     | 13b | ○○      |

## TECHNICAL DRAWING



## DIMENSIONS

### NOMINAL DIMENSIONS

|               |        |
|---------------|--------|
| D (0 / -0.01) | 4 mm   |
| d (h5)        | 4 mm   |
| L             | 50 mm  |
| l1            | 1.7 mm |
| l3            | –      |
| d3            | –      |
| R             | –      |
| e             | 0.6 mm |
| Z             | 3      |
| Chamfer K     | –      |
| w° collision  | –      |



E-SHOP / EZI CUT  
eskenazi.ch/eshop/21730-4

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