

FRAISE-À-CHANFREINER-45°-MD-E25UF · BEVEL-  
MILLING-CUTTER-45°-SC-E2 · FASENFRÄSER-45°-HM-E2



21730-0.5    Version 10.09.2026



E2

SUBMICRON GRAIN GRADE HIGH-SPEED  
MACHINING OF ABRASIVE MATERIALS

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

TOOL ANGLES LAMBDA 0° GAMMA 8°

CHAMFER TOOL

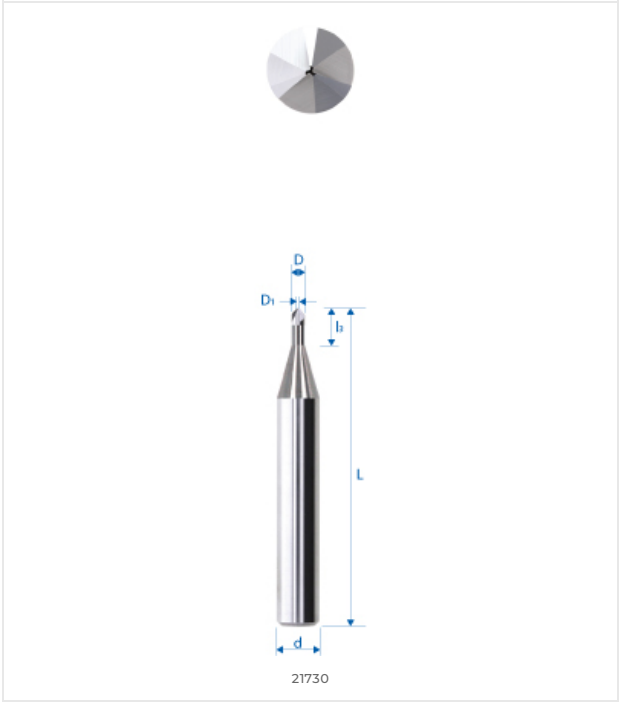
SIDE ONLY CUT

MATERIAL COMPATIBILITY

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

| Product material compatibility |                          |                    |     |           |
|--------------------------------|--------------------------|--------------------|-----|-----------|
| CATEGORY                       | MATERIAL                 | SPECIFICATION      | GRP | 21730-0.5 |
| Alloyed and non-alloyed steels | Non-alloyed steels       | Rm < 450 N/mm²     | 1a  | ●○○ 1/3   |
|                                |                          | Rm 450–700 N/mm²   | 1b  | ●○○ 1/3   |
|                                |                          | Rm 700–900 N/mm²   | 1c  | ●○○ 1/3   |
|                                |                          | Rm > 1200 N/mm²    | 1d  | ○○○ 0/3   |
| Stainless steels               | Stainless steels         | Rm < 650 N/mm²     | 2a  | ●○○ 1/3   |
|                                |                          | Rm 650–950 N/mm²   | 2b  | ●○○ 1/3   |
|                                |                          | Rm > 950 N/mm²     | 2c  | ○○○ 0/3   |
| Hardened steels                | Hardened steels          | 44–56 HRC          | 3a  | ○○○ 0/3   |
|                                |                          | 57–67 HRC          | 3b  | ○○○ 0/3   |
| Exotic materials               | Special alloys           | < 32 HRC           | 4a  | ○○○ 0/3   |
|                                |                          | > 32 HRC           | 4b  | ○○○ 0/3   |
| Graphite                       | Industrial graphite      |                    | 5   | ●○○ 1/3   |
| Cast iron                      | Grey / nodular cast iron | < 32 HRC           | 6a  | ○○○ 0/3   |
|                                |                          | > 32 HRC           | 6b  | ○○○ 0/3   |
| Titanium                       | Titanium alloys          | Rm < 600 N/mm²     | 7a  | ●○○ 1/3   |
|                                |                          | 600 < Rm N/mm²     | 7b  | ●○○ 1/3   |
| Nickel alloys                  | Inconel, Hastelloy       | Rm < 1000 N/mm²    | 8a  | ○○○ 0/3   |
|                                |                          | Rm > 1000 N/mm²    | 8b  | ○○○ 0/3   |
| Copper, brass, bronze          | Copper-based             | Rm < 850 N/mm²     | 9a  | ●●● 3/3   |
|                                |                          | Rm > 850 N/mm²     | 9b  | ●●● 3/3   |
| Aluminum                       | Aluminum alloys          | Si < 0.5%          | 10a | ●●● 3/3   |
|                                |                          | 0.5% < Si < 5%     | 10b | ●●● 3/3   |
|                                |                          | Si > 5%            | 10c | ○○○ 0/3   |
| Synthetic materials            | Engineering plastics     | Thermoplastic      | 11a | ●●● 3/3   |
|                                |                          | Thermoset          | 11b | ●●● 3/3   |
| Composite materials            | Reinforced composites    | Glass fiber / GFK  | 12a | ●○○ 1/3   |
|                                |                          | Carbon fiber / KFK | 12b | ●○○ 1/3   |
| Precious metals                | Gold, platinum, silver   | Gold               | 13a | ●●● 3/3   |
|                                |                          | Platinum           | 13b | ○○○ 0/3   |

TECHNICAL DRAWING



DIMENSIONS

| NOMINAL DIMENSIONS |        |
|--------------------|--------|
| D (0 / -0.01)      | 0.5 mm |
| d (h5)             | 3 mm   |
| L                  | 38 mm  |
| l1                 | 0.2 mm |
| l3                 | 1.5 mm |
| d3                 | –      |
| R                  | –      |
| e                  | 0.1 mm |
| Z                  | 3      |
| Chamfer K          | –      |
| w° collision angle | 10.5°  |



E-SHOP / EZI CUT  
eskenazi.ch/eshop/21730-0.5