

FRAISE-D'ÉBAUCHE-À-PROFIL-PLAT-MD-E2-+-EZI-  
ALPHA-+L3 · ROUGHING-ENDMILL-FINE-PROFILE-SC-E2-  
+-EZI-ALPHA · SCHAFT-SCHRUPPFRÄSER-FEIN-PROFIL-  
HM-E2-+-EZI-ALPHA



SWISS MADE

22535A-18 Version 10.09.2026

E2

SUBMICRON GRAIN GRADE  
HIGH-SPEED  
MACHINING OF  
ABRASIVE  
MATERIALS

$\lambda=45^{\circ}-47^{\circ}$   
 $\gamma=15^{\circ}$

VARIABLE HELIX  
ANGLES 45° -  
47° AND  
CUTTING ANGLE  
15°

45°

CHAMFER AT 45°

SIDE AND  
CENTER CUT

$l_1$   
2.5xD

CUTTING EDGE  
LENGTH 2.5xD

$l_3$

CUTTING  
LENGTH

FITTING LENGTH  
STANDARD

IRREGULAR  
TOOTHING

$\lambda_2$   
 $\lambda_1$

VARIABLE HELIX  
ANGLES

MATERIAL COMPATIBILITY

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

| Product material compatibility |                          |                              |     |           |
|--------------------------------|--------------------------|------------------------------|-----|-----------|
| CATEGORY                       | MATERIAL                 | SPECIFICATION                | GRP | 22535A-18 |
| Alloyed and non-alloyed steels | Non-alloyed steels       | Rm < 450 N/mm <sup>2</sup>   | 1a  | ●●● 3/3   |
|                                |                          | Rm 450–700 N/mm <sup>2</sup> | 1b  | ●●● 3/3   |
|                                |                          | Rm 700–900 N/mm <sup>2</sup> | 1c  | ●●● 3/3   |
|                                |                          | Rm > 1200 N/mm <sup>2</sup>  | 1d  | ●○○ 1/3   |
| Stainless steels               | Stainless steels         | Rm < 650 N/mm <sup>2</sup>   | 2a  | ●●● 3/3   |
|                                |                          | Rm 650–950 N/mm <sup>2</sup> | 2b  | ●●● 3/3   |
|                                |                          | Rm > 950 N/mm <sup>2</sup>   | 2c  | ●●● 3/3   |
| Hardened steels                | Hardened steels          | 44–56 HRC                    | 3a  | ○○○ 0/3   |
|                                |                          | 57–67 HRC                    | 3b  | ○○○ 0/3   |
| Exotic materials               | Special alloys           | < 32 HRC                     | 4a  | ●○○ 1/3   |
|                                |                          | > 32 HRC                     | 4b  | ●○○ 1/3   |
| Graphite                       | Industrial graphite      |                              | 5   | ○○○ 0/3   |
| Cast iron                      | Grey / nodular cast iron | < 32 HRC                     | 6a  | ●●● 3/3   |
|                                |                          | > 32 HRC                     | 6b  | ●●● 3/3   |
| Titanium                       | Titanium alloys          | Rm < 600 N/mm <sup>2</sup>   | 7a  | ●●● 3/3   |
|                                |                          | 600 < Rm N/mm <sup>2</sup>   | 7b  | ●●● 3/3   |
| Nickel alloys                  | Inconel, Hastelloy       | Rm < 1000 N/mm <sup>2</sup>  | 8a  | ●○○ 1/3   |
|                                |                          | Rm > 1000 N/mm <sup>2</sup>  | 8b  | ●○○ 1/3   |
| Copper, brass, bronze          | Copper-based             | Rm < 850 N/mm <sup>2</sup>   | 9a  | ●●● 3/3   |
|                                |                          | Rm > 850 N/mm <sup>2</sup>   | 9b  | ●●● 3/3   |
| Aluminum                       | Aluminum alloys          | Si < 0.5%                    | 10a | ○○○ 0/3   |
|                                |                          | 0.5% < Si < 5%               | 10b | ○○○ 0/3   |
|                                |                          | Si > 5%                      | 10c | ○○○ 0/3   |
| Synthetic materials            | Engineering plastics     | Thermoplastic                | 11a | ○○○ 0/3   |
|                                |                          | Thermoset                    | 11b | ○○○ 0/3   |
| Composite materials            | Reinforced composites    | Glass fiber / GFK            | 12a | ○○○ 0/3   |
|                                |                          | Carbon fiber / KFK           | 12b | ○○○ 0/3   |
| Precious metals                | Gold, platinum, silver   | Gold                         | 13a | ●●● 3/3   |
|                                |                          | Platinum                     | 13b | ●●○ 2/3   |

TECHNICAL DRAWING



DIMENSIONS

| NOMINAL DIMENSIONS |       |
|--------------------|-------|
| D (0 / -0.01)      | 18 mm |
| d (h5)             | 18 mm |
| L                  | 92 mm |
| l1                 | 32 mm |
| l3                 | 43 mm |
| d3                 | –     |
| R                  | –     |
| e                  | –     |
| Z                  | 4     |
| Chamfer K          | 0.4   |
| w° collision angle | –     |



ESUCH01EZICUT

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E-SHOP / EZICUI  
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