



**FALCON TOOLS**

**CATALOGUE FRAISAGE**

MICRO-OUTILS | FRAISAGE | EVABURAGE | FILETAGE



## **MICRO-FORETS CARBURE** - Carbide micro-drills

|               |                                                                                                                                                           |                |
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|               |                                                                                                                                              |                 |
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|                                                                   |                                                                                                                                                                 |                 |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
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## MICRO-FORETS CARBURE MONOBLOC 2 LEVRES DIN 1899-A

Courts  
Non-revêtus



Solid carbide short micro-drills - 2 flutes - Uncoated



Micro-brocas cortas MD integral - 2 labios - Sin recubrimiento



Micro-punte corti MD integrale - 2 taglienti - Non rivestiti

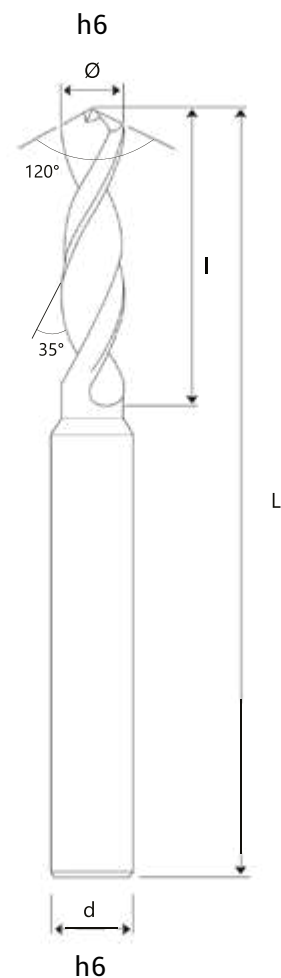


VHM kurze Mikrobohrer - 2 Schneiden - Unbeschichtet



| Ø           | d   | L  | l   | Z |
|-------------|-----|----|-----|---|
| 0.15 → 0.19 | 1   | 30 | 1   | 2 |
| 0.20        | 1   | 30 | 2   | 2 |
| 0.21 → 0.25 | 1   | 30 | 2   | 2 |
| 0.26 → 0.30 | 1   | 30 | 2.5 | 2 |
| 0.31 → 0.34 | 1   | 30 | 3   | 2 |
| 0.35        | 1   | 30 | 4   | 2 |
| 0.36 → 0.40 | 1   | 30 | 4   | 2 |
| 0.41 → 0.44 | 1   | 30 | 4   | 2 |
| 0.45 → 0.50 | 1   | 30 | 6   | 2 |
| 0.51 → 0.64 | 1   | 30 | 6   | 2 |
| 0.65 → 0.74 | 1   | 30 | 7   | 2 |
| 0.75        | 1   | 30 | 8   | 2 |
| 0.76 → 0.79 | 1   | 30 | 8   | 2 |
| 0.80 → 0.94 | 1.5 | 30 | 8   | 2 |
| 0.95 → 1.14 | 1.5 | 30 | 10  | 2 |
| 1.15 → 1.20 | 1.5 | 30 | 12  | 2 |
| 1.21 → 1.49 | 1.5 | 30 | 12  | 2 |
| 1.50 → 1.99 | 2   | 30 | 12  | 2 |
| 2.00        | 2.5 | 30 | 12  | 2 |

Ex. ref. Ø0.15 = FOC501-000.150





**FOC**  
105  
108  
112

## MICRO-FORETS CARBURE MONOBLOC 2 LEVRES DIN 6537

Longueur **5D** ou **8D** ou **12D** - **Lubrification interne**

Revêtement pour matériaux très abrasifs ou trempés (acier > 54 HRC)



*Solid carbide micro-drills - 2 flutes - Internal cooling - Coating for tempered, sticky and soft materials*



*Micro-brocas MD integral - 2 labios - Refrig. interna - Recubrimiento para materiales templados, pegajosos y tiernos*



*Micro-punte MD integrale - 2 taglienti - Refrig. interna - Rivestimento per materiali temprati, appiccicosi e teneri*



*VHM Mikrobohrer - 2 Schneiden - Mit innenkühlung - Beschichtung für gehärtete, klebrige und weiche Materialien*



| Ø         | d | L  | l  | Z |
|-----------|---|----|----|---|
| 1.0       | 3 | 55 | 8  | 2 |
| 1.1 → 1.5 | 3 | 55 | 12 | 2 |
| 1.6 → 2.0 | 3 | 65 | 16 | 2 |
| 2.1 → 2.5 | 3 | 74 | 20 | 2 |
| 2.6 → 2.9 | 3 | 81 | 23 | 2 |

Ex. ref. Ø1 = FOC105-001.000



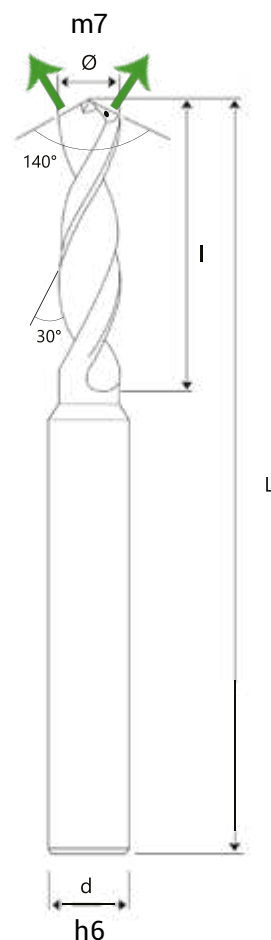
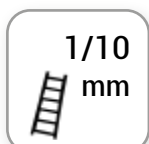
| Ø         | d | L  | l  | Z |
|-----------|---|----|----|---|
| 1.0       | 3 | 55 | 11 | 2 |
| 1.1 → 1.5 | 3 | 55 | 17 | 2 |
| 1.6 → 2.0 | 3 | 65 | 22 | 2 |
| 2.1 → 2.5 | 3 | 74 | 28 | 2 |
| 2.6 → 2.9 | 3 | 81 | 32 | 2 |

Ex. ref. Ø1 = FOC108-001.000



| Ø         | d | L  | l  | Z |
|-----------|---|----|----|---|
| 1.0       | 3 | 55 | 15 | 2 |
| 1.1 → 1.5 | 3 | 55 | 23 | 2 |
| 1.6 → 2.0 | 3 | 65 | 30 | 2 |
| 2.1 → 2.5 | 3 | 74 | 38 | 2 |
| 2.6 → 2.9 | 3 | 81 | 44 | 2 |

Ex. ref. Ø1 = FOC112-001.000





FRC  
021  
022

## MICRO-FRAISES CARBURE MONOBLOC 2 LEVRES POLYVALENTES

Bout droit - **Courtes ou longues** - Coupe au centre



Solid carbide **short or long** micro-endmills - Square nose - Center cut - 2 flutes - Uncoated



Micro-fresas rectas **cortas o largas** MD integral - Corte al centro - 2 labios - Sin recubrimiento



Micro-frese dritte **corte o lunghe** MD integrale - Taglio al centro - 2 taglienti - Non rivestite



VHM **kurze oder lange** Mikroschaftfräser - Mittelschnitt - 2 Schneiden - Unbeschichtet

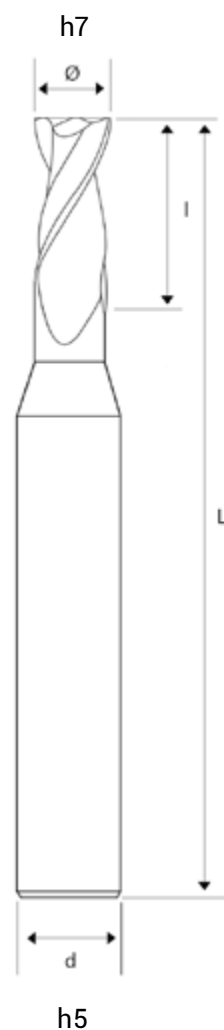


| Ø 0.1 mm   | d | L  | l   | Z |
|------------|---|----|-----|---|
| 0.4        | 3 | 39 | 1   | 2 |
| 0.5        | 3 | 39 | 1.5 | 2 |
| 0.6        | 3 | 39 | 1.5 | 2 |
| 0.7        | 3 | 39 | 2   | 2 |
| 0.8        | 3 | 39 | 2   | 2 |
| 0.9        | 3 | 39 | 2.5 | 2 |
| 1.0        | 3 | 39 | 3   | 2 |
| 1.1        | 3 | 39 | 3   | 2 |
| 1.2        | 3 | 39 | 4   | 2 |
| 1.3        | 3 | 39 | 4   | 2 |
| 1.4        | 3 | 39 | 4   | 2 |
| 1.5        | 3 | 39 | 4   | 2 |
| 1.6        | 3 | 39 | 5   | 2 |
| 1.7        | 3 | 39 | 5   | 2 |
| 1.8        | 3 | 39 | 5   | 2 |
| 1.9        | 3 | 39 | 5   | 2 |
| 2.0        | 3 | 39 | 5   | 2 |
| 2.1 → 2.40 | 3 | 39 | 6   | 2 |
| 2.5        | 3 | 39 | 7   | 2 |
| 2.6 → 2.90 | 3 | 39 | 7   | 2 |
| 3.0        | 4 | 44 | 10  | 2 |

Ex. ref. Ø2 = FRC021-002.000

| Ø 0.1 mm | d | L  | l    | Z |
|----------|---|----|------|---|
| 0.4      | 3 | 39 | 2    | 2 |
| 0.5      | 3 | 39 | 2.5  | 2 |
| 0.6      | 3 | 39 | 3    | 2 |
| 0.7      | 3 | 39 | 3.5  | 2 |
| 0.8      | 3 | 39 | 4    | 2 |
| 0.9      | 3 | 39 | 4.5  | 2 |
| 1.0      | 3 | 39 | 5    | 2 |
| 1.1      | 3 | 39 | 5.5  | 2 |
| 1.2      | 3 | 39 | 6    | 2 |
| 1.3      | 3 | 39 | 6.5  | 2 |
| 1.4      | 3 | 39 | 7    | 2 |
| 1.5      | 3 | 39 | 7.5  | 2 |
| 1.6      | 3 | 39 | 8    | 2 |
| 1.7      | 3 | 39 | 8.5  | 2 |
| 1.8      | 3 | 39 | 9    | 2 |
| 1.9      | 3 | 39 | 9.5  | 2 |
| 2.0      | 3 | 39 | 10   | 2 |
| 2.5      | 3 | 45 | 12.5 | 2 |
| 3.0      | 4 | 46 | 15   | 2 |

Ex. ref. Ø2 = FRC022-002.000





## MICRO-FRAISES CARBURE MONOBLOC 2 LEVRES POLYVALENTES

Hémisphériques - Courtes



Solid carbide short micro-endmills - Ball nose - 2 flutes - Uncoated



Micro-fresas esféricas cortas MD integral - 2 labios - Sin recubrimiento



Micro-frese sferiche corte MD integrale - 2 taglienti - Non rivestite

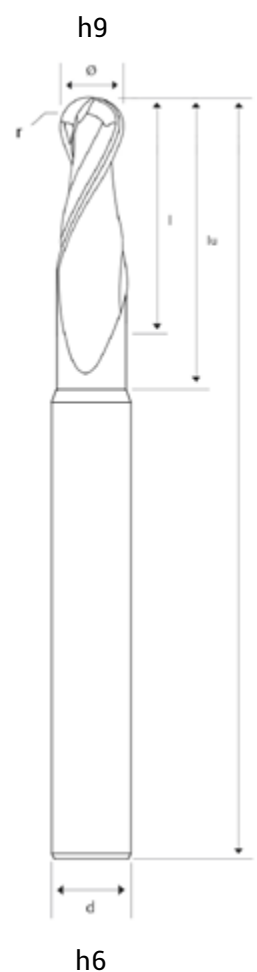


VHM kurze Mikroradiusfräser - 2 Schneiden - Unbeschichtet



| Ø 0.1 mm | d | L  | l   | r    | Z |
|----------|---|----|-----|------|---|
| 0.4      | 3 | 38 | 1   | 0.20 | 2 |
| 0.5      | 3 | 38 | 1.5 | 0.25 | 2 |
| 0.6      | 3 | 38 | 1.5 | 0.30 | 2 |
| 0.7      | 3 | 38 | 2   | 0.35 | 2 |
| 0.8      | 3 | 38 | 2   | 0.40 | 2 |
| 0.9      | 3 | 38 | 2   | 0.45 | 2 |
| 1.0      | 3 | 38 | 2.5 | 0.50 | 2 |
| 1.1      | 3 | 38 | 2.5 | 0.55 | 2 |
| 1.2      | 3 | 38 | 3   | 0.60 | 2 |
| 1.3      | 3 | 38 | 3.5 | 0.65 | 2 |
| 1.4      | 3 | 38 | 4   | 0.70 | 2 |
| 1.5      | 3 | 38 | 4.5 | 0.75 | 2 |
| 1.6      | 3 | 38 | 4.5 | 0.80 | 2 |
| 1.7      | 3 | 38 | 5   | 0.85 | 2 |
| 1.8      | 3 | 38 | 5   | 0.90 | 2 |
| 1.9      | 3 | 38 | 5   | 0.95 | 2 |
| 2.0      | 3 | 38 | 5   | 1.00 | 2 |
| 2.1      | 3 | 38 | 5   | 1.05 | 2 |
| 2.2      | 3 | 38 | 5   | 1.10 | 2 |
| 2.3      | 3 | 38 | 5   | 1.15 | 2 |
| 2.4      | 3 | 38 | 5   | 1.20 | 2 |
| 2.5      | 3 | 38 | 5   | 1.25 | 2 |
| 2.6      | 3 | 38 | 7   | 1.30 | 2 |
| 2.7      | 3 | 38 | 7   | 1.35 | 2 |
| 2.8      | 3 | 38 | 7   | 1.40 | 2 |
| 2.9      | 3 | 38 | 8   | 1.45 | 2 |
| 3.0      | 3 | 38 | 8   | 1.50 | 2 |

Ex. ref. Ø2 = FRC026-002.000





# FRC 648

## FRAISES CARBURE MONOBLOC 4 LEVRES TITANE ET INCONEL

Toriques - Courtes - Coupe au centre - Division irrégulière  
Revêtement pour aciers alliés et trempés



Solid carbide endmills for titanium and inconel - Corner radius - Center cut - 4 flutes - Unequal helix - Coated



Fresas tóricas MD integral para titanio e inconel - Corte al centro - 4 labios - Hélice variable - Con recubrimiento



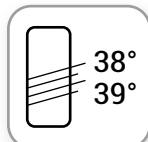
Frese toriche MD integrale per titanio ed inconel - Taglio al centro - 4 taglienti - Elica differenziata - Rivestite



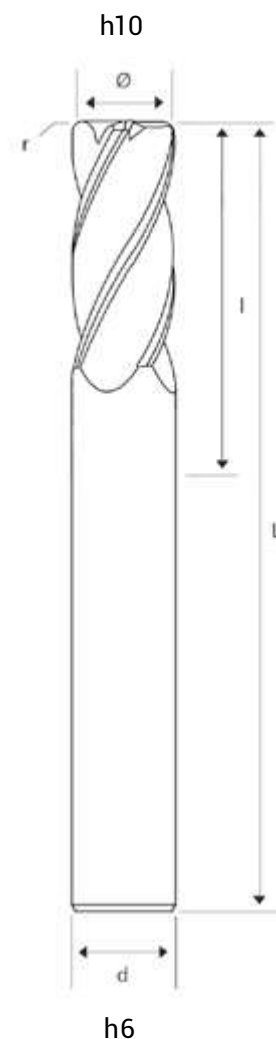
VHM Torusfräser für Titan und Inconel - Mittelschnitt - 4 Schneiden - Ungleiche Spiralsteigung - Beschichtet



**SOLID  
WC**



| Ø  | d  | L   | l  | r    | Z |
|----|----|-----|----|------|---|
| 6  | 6  | 57  | 13 | 0.25 | 4 |
| 6  | 6  | 57  | 13 | 0.5  | 4 |
| 6  | 6  | 57  | 13 | 1.5  | 4 |
| 6  | 6  | 57  | 13 | 2.5  | 4 |
| 8  | 8  | 63  | 19 | 0.5  | 4 |
| 8  | 8  | 63  | 19 | 0.8  | 4 |
| 8  | 8  | 63  | 19 | 1.5  | 4 |
| 8  | 8  | 63  | 19 | 2.5  | 4 |
| 10 | 10 | 72  | 22 | 0.5  | 4 |
| 10 | 10 | 72  | 22 | 0.8  | 4 |
| 10 | 10 | 72  | 22 | 1.5  | 4 |
| 10 | 10 | 72  | 22 | 2    | 4 |
| 10 | 10 | 72  | 22 | 2.5  | 4 |
| 10 | 10 | 72  | 22 | 3    | 4 |
| 10 | 10 | 72  | 22 | 4    | 4 |
| 12 | 12 | 83  | 26 | 0.5  | 4 |
| 12 | 12 | 83  | 26 | 0.8  | 4 |
| 12 | 12 | 83  | 26 | 1.5  | 4 |
| 12 | 12 | 83  | 26 | 2    | 4 |
| 12 | 12 | 83  | 26 | 2.5  | 4 |
| 12 | 12 | 83  | 26 | 3    | 4 |
| 12 | 12 | 83  | 26 | 3.5  | 4 |
| 12 | 12 | 83  | 26 | 4    | 4 |
| 16 | 16 | 92  | 32 | 0.5  | 4 |
| 16 | 16 | 92  | 32 | 0.8  | 4 |
| 16 | 16 | 92  | 32 | 2    | 4 |
| 16 | 16 | 92  | 32 | 2.5  | 4 |
| 16 | 16 | 92  | 32 | 3    | 4 |
| 16 | 16 | 92  | 32 | 3.5  | 4 |
| 16 | 16 | 92  | 32 | 4    | 4 |
| 16 | 16 | 92  | 32 | 5    | 4 |
| 20 | 20 | 104 | 38 | 0.5  | 4 |
| 20 | 20 | 104 | 38 | 0.8  | 4 |
| 20 | 20 | 104 | 38 | 2    | 4 |
| 20 | 20 | 104 | 38 | 2.5  | 4 |
| 20 | 20 | 104 | 38 | 3    | 4 |
| 20 | 20 | 104 | 38 | 3.5  | 4 |
| 20 | 20 | 104 | 38 | 4    | 4 |
| 20 | 20 | 104 | 38 | 5    | 4 |



Ex. ref. Ø6 r0.25 = FRC648-006.000R0.25



## FRAISES CARBURE MONOBLOC 2 LEVRES ALUMINIUM - GRANDE VITESSE

Hémisphériques - Courtes

Revêtement pour alliages d'aluminium et métaux non-ferreux



Solid carbide endmills for aluminum - Ball nose - 2 flutes - Coated



Fresas esféricas MD integral para aluminio - 2 labios - Con recubrimiento



Frese sferiche MD integrale per alluminio - 2 taglienti - Rivestite

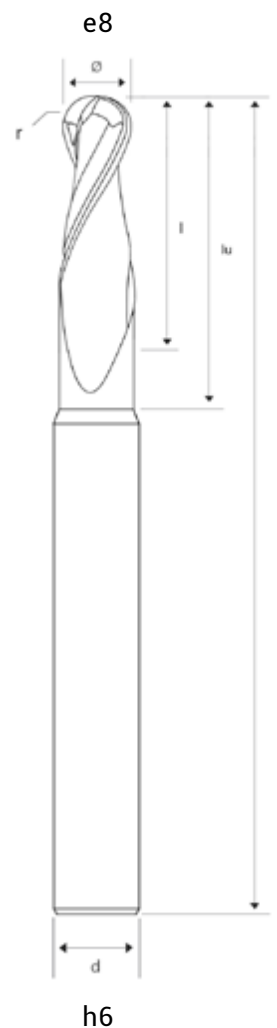


VHM Radiusfräser für Aluminium - 2 Schneiden - Beschichtet



| Ø  | d  | L   | l  | lu | r   | Z |
|----|----|-----|----|----|-----|---|
| 3  | 6  | 70  | 6  | 25 | 1.5 | 2 |
| 4  | 6  | 70  | 8  | 25 | 2   | 2 |
| 5  | 6  | 70  | 10 | 25 | 2.5 | 2 |
| 6  | 6  | 80  | 12 | 35 | 3   | 2 |
| 8  | 8  | 80  | 16 | 35 | 4   | 2 |
| 10 | 10 | 90  | 20 | 45 | 5   | 2 |
| 12 | 12 | 100 | 24 | 50 | 6   | 2 |

Ex. ref. Ø6 r3 = FRC225-006.000R3





**FRC**  
**228**

## FRAISES CARBURE MONOBLOC 2 LEVRES ALUMINIUM - GRANDE VITESSE

Toriques - Courtes - Coupe au centre

Revêtement pour alliages d'aluminium et métaux non-ferreux



*Solid carbide endmills for aluminum - Corner radius - Center cut - 2 flutes - Coated*



*Fresas tóricas MD integral para aluminio - Corte al centro - 2 labios - Con recubrimiento*



*Frese toriche MD integrale per alluminio - Taglio al centro - 2 taglienti - Rivestite*



*VHM Torusfräser für Aluminium - Mittelschnitt - 2 Schneiden - Beschichtet*

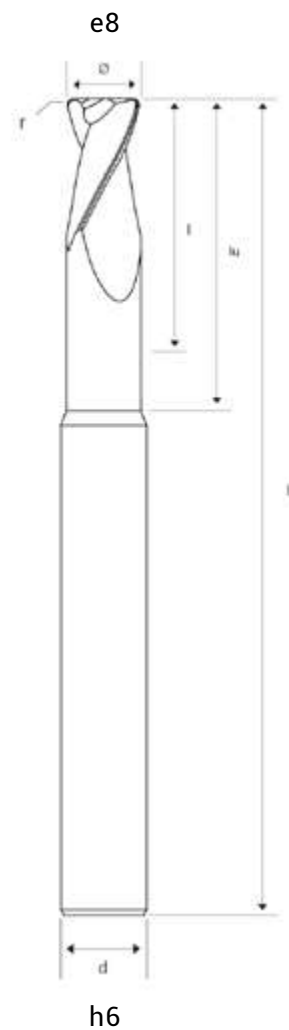


**SOLID**  
**WC**

**ZrN**

| Ø  | d  | L  | l  | lu | r   | Z |
|----|----|----|----|----|-----|---|
| 3  | 4  | 60 | 5  | 20 | 0.3 | 2 |
| 4  | 4  | 60 | 5  | 20 | 0.4 | 2 |
| 5  | 5  | 60 | 6  | 20 | 0.5 | 2 |
| 6  | 6  | 65 | 7  | 25 | 0.3 | 2 |
| 6  | 6  | 65 | 7  | 25 | 1   | 2 |
| 8  | 8  | 70 | 9  | 30 | 0.3 | 2 |
| 8  | 8  | 70 | 9  | 30 | 1   | 2 |
| 10 | 10 | 85 | 11 | 40 | 0.3 | 2 |
| 10 | 10 | 85 | 11 | 40 | 1.5 | 2 |
| 12 | 12 | 93 | 12 | 45 | 1.5 | 2 |

Ex. ref. Ø6 r0.3 = FRC228-006.000R0.3





# FRC 233

## FRAISES CARBURE MONOBLOC 3 LEVRES ALUMINIUM - GRANDE VITESSE

Bout droit avec chanfrein - Courtes - Coupe au centre - Division irrégulière  
Revêtement pour alliages d'aluminium et métaux non-ferreux



Solid carbide endmills for aluminum - Square nose with chamfer - Center cut - 3 flutes - Unequal helix - Coated



Fresas rectas y chaflán MD integral para aluminio - Corte al centro - 3 labios - Hélice variable - Con recubrimiento



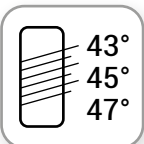
Frese dritte con smusso MD integrale per alluminio - Taglio al centro - 3 taglienti - Elica differenziata - Rivestite



VHM Schaftfräser mit Fase für Aluminium - Mittelschnitt - 3 Schneiden - Ungleiche Spiralsteigung - Beschichtet



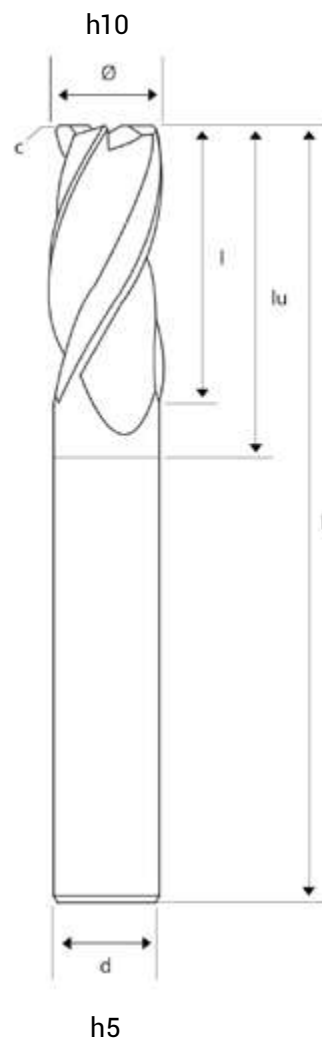
SOLID  
WC



ZrN

| Ø  | d  | L   | l  | lu | c    | Z |
|----|----|-----|----|----|------|---|
| 6  | 6  | 57  | 13 | 21 | 0.2  | 3 |
| 8  | 8  | 63  | 19 | 26 | 0.2  | 3 |
| 10 | 10 | 72  | 22 | 30 | 0.25 | 3 |
| 12 | 12 | 83  | 26 | 37 | 0.3  | 3 |
| 16 | 16 | 92  | 32 | 42 | 0.4  | 3 |
| 20 | 20 | 104 | 38 | 50 | 0.45 | 3 |

Ex. ref. Ø6 c0.2 = FRC233-006.000C0.2





# FRC 238

## FRAISES CARBURE MONOBLOC 3 LEVRES ALUMINIUM - GRANDE VITESSE

Toriques - Courtes - Coupe au centre - Division irrégulière  
Revêtement pour alliages d'aluminium et métaux non-ferreux



Solid carbide endmills for aluminum - Corner radius - Center cut - 3 flutes - Unequal helix - Coated



Fresas tóricas MD integral para aluminio - Corte al centro - 3 labios - Hélice variable - Con recubrimiento



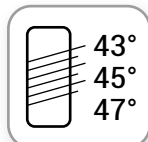
Frese toriche MD integrale per alluminio - Taglio al centro - 3 taglienti - Elica differenziata - Rivestite



VHM Torusfräser für Aluminium - Mittelschnitt - 3 Schneiden - Ungleiche Spiralsteigung - Beschichtet

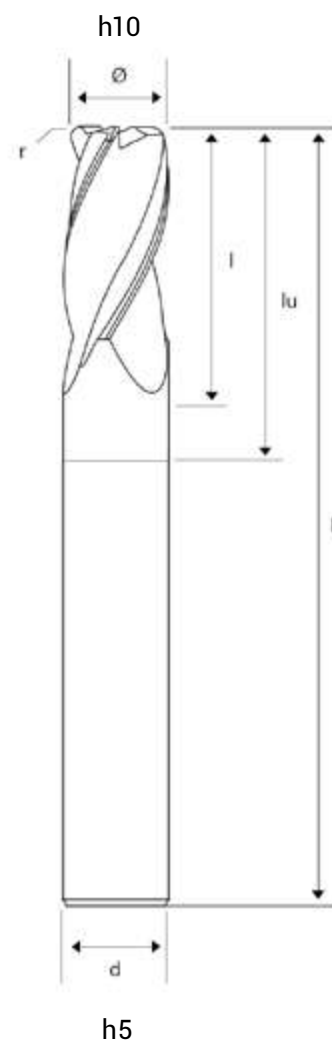


**SOLID  
WC**



**ZrN**

| Ø  | d  | L   | l  | lu | r   | Z |
|----|----|-----|----|----|-----|---|
| 6  | 6  | 57  | 13 | 21 | 0.5 | 3 |
| 6  | 6  | 57  | 13 | 21 | 1   | 3 |
| 6  | 6  | 57  | 13 | 21 | 1.5 | 3 |
| 8  | 8  | 63  | 19 | 26 | 1   | 3 |
| 8  | 8  | 63  | 19 | 26 | 1.5 | 3 |
| 8  | 8  | 63  | 19 | 26 | 2   | 3 |
| 8  | 8  | 63  | 19 | 26 | 2.5 | 3 |
| 8  | 8  | 63  | 19 | 26 | 3   | 3 |
| 10 | 10 | 63  | 19 | 26 | 1   | 3 |
| 10 | 10 | 63  | 19 | 26 | 1.5 | 3 |
| 10 | 10 | 70  | 22 | 30 | 2   | 3 |
| 10 | 10 | 72  | 22 | 30 | 2.5 | 3 |
| 10 | 10 | 72  | 22 | 30 | 3   | 3 |
| 10 | 10 | 72  | 22 | 30 | 4   | 3 |
| 12 | 12 | 83  | 26 | 37 | 1   | 3 |
| 12 | 12 | 83  | 26 | 37 | 1.5 | 3 |
| 12 | 12 | 83  | 26 | 37 | 2   | 3 |
| 12 | 12 | 83  | 26 | 37 | 2.5 | 3 |
| 12 | 12 | 83  | 26 | 37 | 3   | 3 |
| 12 | 12 | 83  | 26 | 37 | 4   | 3 |
| 16 | 16 | 92  | 32 | 42 | 2   | 3 |
| 16 | 16 | 92  | 32 | 42 | 2.5 | 3 |
| 16 | 16 | 92  | 32 | 42 | 3   | 3 |
| 16 | 16 | 92  | 32 | 42 | 4   | 3 |
| 16 | 16 | 92  | 32 | 42 | 5   | 3 |
| 20 | 20 | 104 | 38 | 50 | 2.5 | 3 |
| 20 | 20 | 104 | 38 | 50 | 3   | 3 |
| 20 | 20 | 104 | 38 | 50 | 4   | 3 |
| 20 | 20 | 104 | 38 | 50 | 5   | 3 |



Ex. ref. Ø6 r0.5 = FRC238-006.000R0.5



# FRAISES CARBURE MONOBLOC GRAPHITE

Bout droit - **Courtes ou longues** - Coupe au centre  
Revêtement pour céramiques techniques et carbure jusqu'à 1600 HV



Solid carbide **short or long** endmills for graphite - Square nose - Center cut - Coated



Fresas rectas **cortas o largas** MD integral para grafito - Corte al centro - Con recubrimiento



Frese dritte **corte o lunghe** MD integrale per grafito - Taglio al centro - Rivestite



VHM **kurze oder lange** Schaftfräser für Grafit - Mittelschnitt - Beschichtet

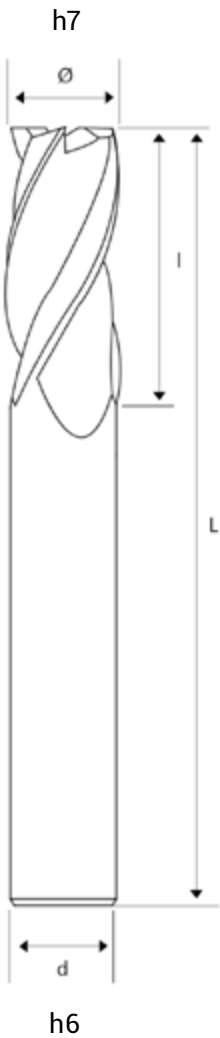


| Ø   | d   | L  | l  | Z |
|-----|-----|----|----|---|
| 1   | 1   | 38 | 3  | 2 |
| 1.5 | 1.5 | 38 | 4  | 2 |
| 2   | 2   | 40 | 7  | 2 |
| 3   | 3   | 40 | 10 | 3 |
| 4   | 4   | 40 | 11 | 3 |
| 5   | 5   | 50 | 13 | 3 |
| 6   | 6   | 50 | 16 | 3 |
| 8   | 8   | 63 | 20 | 3 |
| 10  | 10  | 72 | 22 | 4 |
| 12  | 12  | 83 | 26 | 4 |

Ex. ref. Ø1 = FRC300-001.000

| Ø  | d  | L   | l  | Z |
|----|----|-----|----|---|
| 3  | 3  | 55  | 20 | 3 |
| 4  | 4  | 60  | 20 | 3 |
| 5  | 5  | 60  | 20 | 3 |
| 6  | 6  | 65  | 25 | 3 |
| 8  | 8  | 80  | 32 | 3 |
| 10 | 10 | 80  | 32 | 4 |
| 12 | 12 | 100 | 50 | 4 |

Ex. ref. Ø3 = FRC301-003.000





**FRC**  
**305**  
**306**

## FRAISES CARBURE MONOBLOC GRAPHITE

Hémisphériques - **Courtes ou longues** - Coupe au centre  
Revêtement pour céramiques techniques et carbure jusqu'à 1600 HV



Solid carbide **short or long** endmills for graphite - Ball nose - Coated



Fresas esféricas **cortas o largas** MD integral para grafito - Con recubrimiento



Frese sferiche **corte o lunghe** MD integrale per grafito - Rivestite



VHM **kurze oder lange** Radiusfräser für Grafit - Beschichtet



**SOLID**  
**WC**



| Ø   | d   | L  | l  | Z |
|-----|-----|----|----|---|
| 1   | 1   | 38 | 3  | 2 |
| 1.5 | 1.5 | 38 | 4  | 2 |
| 2   | 2   | 40 | 7  | 2 |
| 3   | 3   | 40 | 10 | 3 |
| 4   | 4   | 40 | 11 | 3 |
| 5   | 5   | 50 | 13 | 3 |
| 6   | 6   | 50 | 16 | 3 |
| 8   | 8   | 63 | 20 | 3 |
| 10  | 10  | 72 | 22 | 4 |
| 12  | 12  | 83 | 26 | 4 |

Ex. ref. Ø1 r0.5 = FRC305-001.000R0.5

| Ø  | d  | L   | l  | Z |
|----|----|-----|----|---|
| 3  | 3  | 55  | 20 | 3 |
| 4  | 4  | 60  | 20 | 3 |
| 5  | 5  | 60  | 20 | 3 |
| 6  | 6  | 65  | 25 | 3 |
| 8  | 8  | 80  | 32 | 3 |
| 10 | 10 | 80  | 32 | 4 |
| 12 | 12 | 100 | 50 | 4 |

Ex. ref. Ø3 r1.5 = FRC306-003.000R1.5





**FRC**  
**426**  
**427**

## FRAISES CARBURE MONOBLOC 2 LEVRES MOULES

Hémisphériques - **Longues ou extra longues**  
Revêtement haute dureté / usinage à sec



Solid carbide **long or extra long** endmills for moulds - Ball nose - 2 flutes - Coated



Fresas esféricas **largas o extra largas** MD integral para moldistas - 2 labios - Con recubrimiento



Frese sferiche **lunghe o extra lunghe** MD integrale per stampisti - 2 taglienti - Rivestite



VHM **lange oder extra lange** Radiusfräser für Formenbauer - 2 Schneiden - Beschichtet



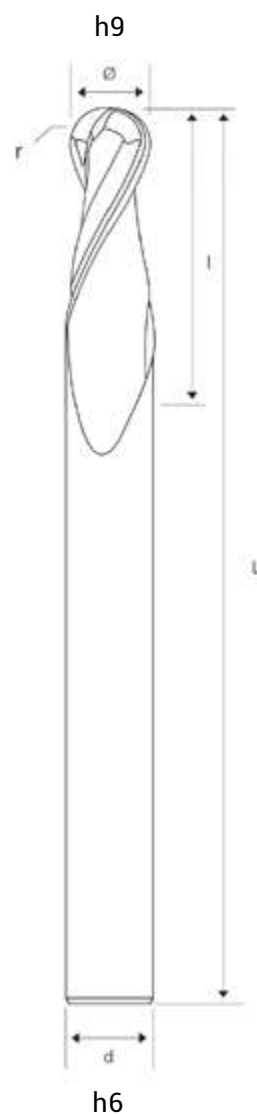
| Ø  | d  | L   | l  | r | Z |
|----|----|-----|----|---|---|
| 6  | 6  | 100 | 15 | 3 | 2 |
| 8  | 8  | 150 | 20 | 4 | 2 |
| 10 | 10 | 150 | 25 | 5 | 2 |
| 12 | 12 | 150 | 25 | 6 | 2 |

Ex. ref. Ø6 = FRC426-006.000R3



| Ø  | d  | L   | l  | r | Z |
|----|----|-----|----|---|---|
| 6  | 6  | 150 | 20 | 3 | 2 |
| 8  | 8  | 200 | 20 | 4 | 2 |
| 10 | 10 | 200 | 25 | 5 | 2 |
| 12 | 12 | 200 | 25 | 6 | 2 |

Ex. ref. Ø6 = FRC427-006.000R3





# FRC 429

## FRAISES CARBURE MONOBLOC 2 LEVRES MOULES ET TURBINES

Hémisphériques - Longues - Queue renforcée  
Revêtement haute dureté / usinage à sec



Solid carbide long endmills for moulds - Ball nose - 2 flutes - Reinforced shank - Coated



Fresas esféricas largas MD integral para moldistas - 2 labios - Mango reforzado - Con recubrimiento



Frese sferiche lunghe MD integrale per stampisti - 2 taglienti - Gambo rinforzato - Rivestite



VHM lange Radiusfräser für Formenbauer - 2 Schneiden - Verstärkter Schaft - Beschichtet



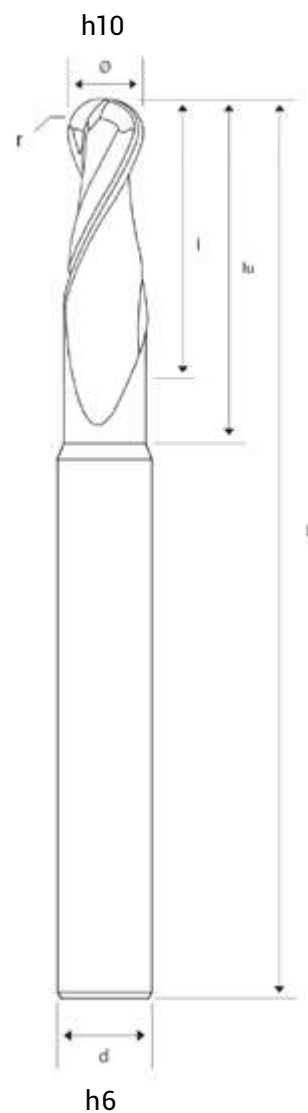
| Ø  | d  | L   | l  | lu | r | Z |
|----|----|-----|----|----|---|---|
| 4  | 6  | 100 | 6  | 16 | 2 | 2 |
| 6  | 8  | 100 | 7  | 25 | 3 | 2 |
| 8  | 10 | 120 | 8  | 32 | 4 | 2 |
| 10 | 12 | 160 | 10 | 40 | 5 | 2 |

Ex. ref. Ø6 = FRC429-004.000R2



SOLID  
WC

CRONAL





## FRAISES CARBURE MONOBLOC 4 LEVRES JUSQU'A 65 HRC

Bout droit avec chanfrein - Courtes - Coupe au centre - Division Irrégulière  
Revêtement haute dureté / usinage à sec



Solid carbide endmills up to 65 HRC - Square nose with chamfer - Center cut - 4 flutes - Unequal helix - Coated



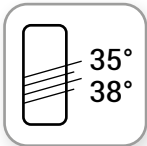
Fresas rectas y chaflán MD integral hasta 65 HRC - Corte al centro - 4 labios - Hélice variable - Con recubrimiento



Frese dritte con smusso MD integrale fino a 65 HRC - Taglio al centro - 4 taglienti - Elica differenziata - Rivestite

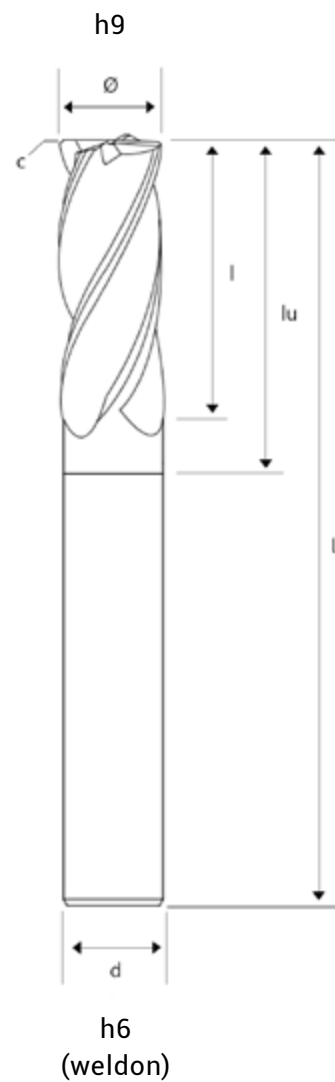


VHM Schaftfräser mit Fase bis 65 HRC - Mittelschnitt - 4 Schneiden - Ungleiche Spiralsteigung - Beschichtet



| Ø  | d  | L   | l  | lu | Z |
|----|----|-----|----|----|---|
| 3  | 6  | 57  | 8  | 18 | 4 |
| 4  | 6  | 57  | 11 | 21 | 4 |
| 5  | 6  | 57  | 13 | 21 | 4 |
| 6  | 6  | 57  | 13 | 21 | 4 |
| 8  | 8  | 63  | 19 | 27 | 4 |
| 10 | 10 | 72  | 22 | 32 | 4 |
| 12 | 12 | 83  | 26 | 38 | 4 |
| 16 | 16 | 92  | 32 | 44 | 4 |
| 20 | 20 | 104 | 38 | 54 | 4 |

Ex. ref. Ø3 = FRC540-003.000





# FRC 543

## FRAISES CARBURE MONOBLOC 4 LEVRES JUSQU'A 65 HRC

Bout droit avec chanfrein - Courtes - Coupe au centre - Division Irrégulière  
Revêtement haute dureté / usinage à sec



Solid carbide endmills up to 65 HRC - Square nose with chamfer - Center cut - 4 flutes - Unequal helix - Coated



Fresas rectas y chaflán MD integral hasta 65 HRC - Corte al centro - 4 labios - Hélice variable - Con recubrimiento



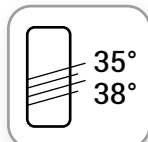
Frese dritte con smusso MD integrale fino a 65 HRC - Taglio al centro - 4 taglienti - Elica differenziata - Rivestite



VHM Schaftfräser mit Fase bis 65 HRC - Mittelschnitt - 4 Schneiden - Ungleiche Spiralsteigung - Beschichtet



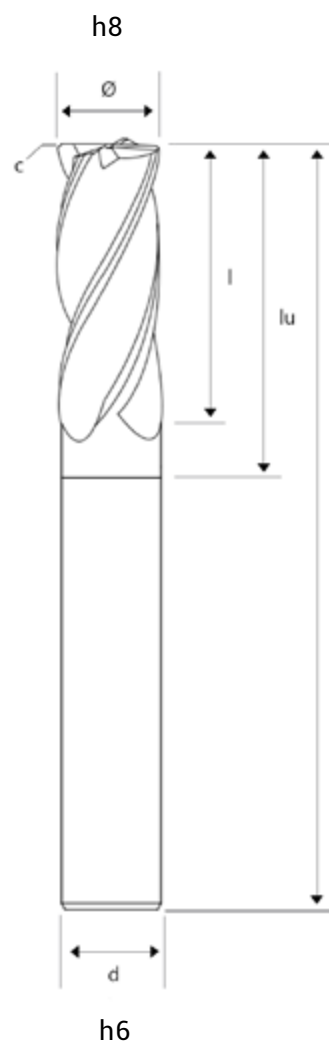
**SOLID  
WC**



**CRONAL**

| Ø  | d  | L   | l  | lu | c    | Z |
|----|----|-----|----|----|------|---|
| 3  | 6  | 57  | 8  | 15 | 0.1  | 4 |
| 4  | 6  | 57  | 11 | 17 | 0.1  | 4 |
| 5  | 6  | 57  | 13 | 19 | 0.2  | 4 |
| 6  | 6  | 57  | 13 | 21 | 0.2  | 4 |
| 8  | 8  | 63  | 19 | 26 | 0.2  | 4 |
| 10 | 10 | 72  | 22 | 30 | 0.25 | 4 |
| 12 | 12 | 83  | 26 | 37 | 0.3  | 4 |
| 16 | 16 | 92  | 32 | 42 | 0.4  | 4 |
| 20 | 20 | 104 | 38 | 50 | 0.5  | 4 |

Ex. ref. Ø3 c0.1 = FRC543-003.000





## FRAISES CARBURE MONOBLOC 4 LEVRES JUSQU'A 65 HRC

Hémisphériques - Courtes - Division Irrégulière  
Revêtement haute dureté / usinage à sec



Solid carbide endmills up to 65 HRC - Ball nose - 4 flutes - Unequal helix - Coated



Fresas esféricas MD integral hasta 65 HRC - 4 labios - Hélice variable - Con recubrimiento



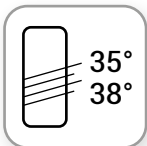
Frese sferiche MD integrale fino a 65 HRC - 4 taglienti - Elica differenziata - Rivestite



VHM Raidusfräser bis 65 HRC - 4 Schneiden - Ungleiche Spiralsteigung - Beschichtet



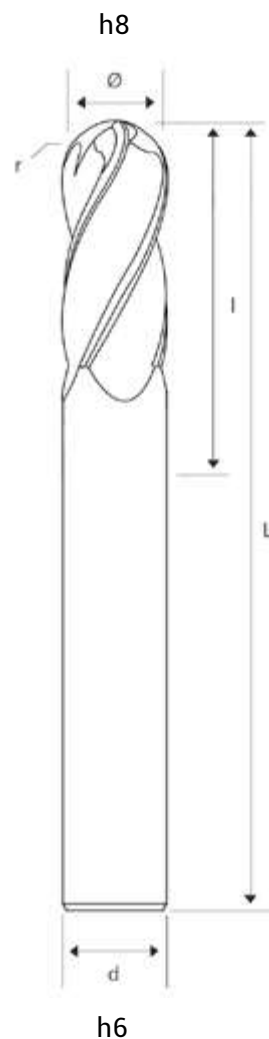
**SOLID  
WC**



**CRONAL**

| Ø  | d  | L   | l  | r   | Z |
|----|----|-----|----|-----|---|
| 3  | 6  | 57  | 8  | 1.5 | 4 |
| 4  | 6  | 57  | 10 | 2   | 4 |
| 5  | 6  | 57  | 13 | 2.5 | 4 |
| 6  | 6  | 57  | 13 | 3   | 4 |
| 8  | 8  | 63  | 16 | 4   | 4 |
| 10 | 10 | 72  | 22 | 5   | 4 |
| 12 | 12 | 83  | 26 | 6   | 4 |
| 16 | 16 | 92  | 32 | 8   | 4 |
| 20 | 20 | 104 | 32 | 10  | 4 |

Ex. ref. Ø3 r1.5 = FRC545-003.000R1.5





# FRC 548

## FRAISES CARBURE MONOBLOC 4 LEVRES JUSQU'A 65 HRC

Toriques - Courtes - Coupe au centre - Division Irrégulière  
Revêtement haute dureté / usinage à sec



Solid carbide endmills up to 65 HRC - Corner radius - Center cut - 4 flutes - Unequal helix - Coated



Fresas tóricas MD integral hasta 65 HRC - Corte al centro - 4 labios - Hélice variable - Con recubrimiento



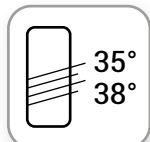
Frese toriche MD integrale fino a 65 HRC - Taglio al centro - 4 taglienti - Elica differenziata - Rivestite



VHM Torusfräser bis 65 HRC - Mittelschnitt - 4 Schneiden - Ungleiche Spiralsteigung - Beschichtet



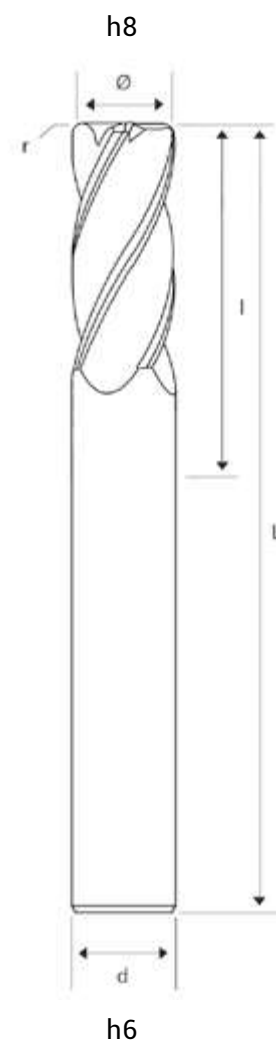
**SOLID  
WC**



**CRONAL**

| Ø  | d  | L   | l  | r   | Z |
|----|----|-----|----|-----|---|
| 4  | 6  | 57  | 11 | 0.5 | 4 |
| 4  | 6  | 57  | 11 | 1   | 4 |
| 5  | 6  | 57  | 13 | 0.5 | 4 |
| 5  | 6  | 57  | 13 | 1   | 4 |
| 6  | 6  | 57  | 13 | 0.5 | 4 |
| 6  | 6  | 57  | 13 | 1   | 4 |
| 8  | 8  | 63  | 19 | 0.5 | 4 |
| 8  | 8  | 63  | 19 | 1   | 4 |
| 10 | 10 | 72  | 22 | 0.5 | 4 |
| 10 | 10 | 72  | 22 | 1   | 4 |
| 12 | 12 | 83  | 26 | 0.5 | 4 |
| 12 | 12 | 83  | 26 | 1   | 4 |
| 16 | 16 | 92  | 32 | 1   | 4 |
| 16 | 16 | 92  | 32 | 2   | 4 |
| 20 | 20 | 104 | 38 | 1   | 4 |
| 20 | 20 | 104 | 38 | 2   | 4 |

Ex. ref. Ø4 r0.5 = FRC548-004.000R0.5





## FRAISES A CHANFREINER AVANT/ARRIERE 90° CARBURE MONOBLOC

Queue cylindrique

Revêtement pour matériaux très abrasifs ou trempés (acier > 54 HRC)



Solid carbide forward/backward deburrers 90° - Straight shank - Coated



Desbarbadores adelante/atrás MD integral 90° - Mango cilíndrico - Con recubrimiento



Sbavatori fronte/retro MD integrale 90° - Gambo cilindrico - Rivestiti



VHM Vor- und Rückwärtsentgrater 90° - Zylinderschaft - Beschichtet



**SOLID  
WC**

**AlTiSiN**

| Ø   | d  | L   | l1  | l2  | Z |
|-----|----|-----|-----|-----|---|
| 1.8 | 6  | 100 | 0.9 | 1.2 | 3 |
| 2.8 | 6  | 100 | 1.4 | 1.8 | 3 |
| 4   | 6  | 100 | 2   | 3   | 4 |
| 6   | 6  | 100 | 3   | 4   | 4 |
| 8   | 6  | 100 | 2.1 | 3   | 4 |
| 10  | 6  | 100 | 2.3 | 4   | 4 |
| 12  | 6  | 100 | 3   | 6   | 4 |
| 16  | 10 | 100 | 5   | 8   | 4 |

Ex. ref. Ø1.8 = EVC209-001.800



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