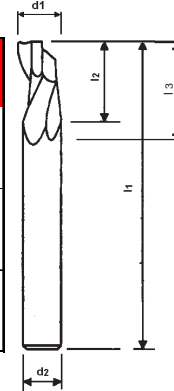


**Hartmetallschafffräser** *Fraises à queue m. dur* **Carbide endmills**

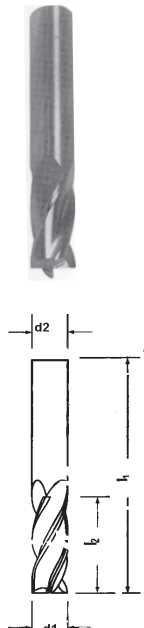
- In höchster Formgenauigkeit CNC-geschliffen für hohe Standzeit
- Mit Zentrumschnitt in Feinst-Kornausführung
- *Affûtée (CNC) avec précision, une longue durée en résultent*
- *coupe au centre et exécution "Micrograin"*
- ground to exact geometry by cnc-grinder for long tool live
- With centre cut in micro-grain execution

| d1  | d2 | l2  | l3  | l1 | Z | Best.Nr. 2505V..  | Fr.   | d1  | d2 | l2 | l3 | l1 | Z | Best.Nr. 2505V..  | Fr.   | 2.505V112 |
|-----|----|-----|-----|----|---|-------------------|-------|-----|----|----|----|----|---|-------------------|-------|-----------|
| f10 | h6 |     |     |    |   | no.cde./order no. |       | f10 | h6 |    |    |    |   | no.cde./order no. |       |           |
| 0.3 | 3  | 2   | 3   | 38 | 1 | 2505V. 003        | 26.90 | 2   | 3  | 8  | 11 | 38 | 1 | 2505V. 020        | 22.50 |           |
| 0.4 | 3  | 2.5 | 3.5 | 38 | 1 | 2505V. 004        | 26.90 | 2.5 | 3  | 9  | 12 | 38 | 1 | 2505V. 025        | 22.50 |           |
| 0.6 | 3  | 2.5 | 3.5 | 38 | 1 | 2505V. 006        | 26.90 | 2.8 | 3  | 12 | 13 | 38 | 1 | 2505V. 028        | 22.50 |           |
| 0.8 | 3  | 4   | 5   | 38 | 1 | 2505V. 008        | 26.90 | 3   | 3  | 12 | 13 | 38 | 1 | 2505V. 030        | 22.50 |           |
| 1   | 3  | 4   | 5   | 38 | 1 | 2505V. 010        | 22.50 | 4   | 4  | 12 | 15 | 50 | 1 | 2505V. 040        | 37.50 |           |
| 1.2 | 3  | 5   | 6   | 38 | 1 | 2505V. 012        | 22.50 | 5   | 5  | 14 | 17 | 50 | 1 | 2505V. 050        | 42.00 |           |
| 1.5 | 3  | 6   | 7   | 38 | 1 | 2505V. 015        | 22.50 | 6   | 6  | 16 | 17 | 50 | 1 | 2505V. 060        | 42.00 |           |
| 1.6 | 3  | 6   | 7   | 38 | 1 | 2505V. 016        | 22.50 | 8   | 8  | 20 | 21 | 60 | 1 | 2505V. 080        | 46.90 |           |
| 1.8 | 3  | 7   | 10  | 38 | 1 | 2505V. 018        | 22.50 | 10  | 10 | 22 | 23 | 70 | 1 | 2505V. 100        | 93.00 |           |



| d1e8      | d2h6 | l2 | l1  | Z | Best.Nr. 2506V..   | CHF    | Z | Best.Nr. 2512V..  | CHF    | Z | Best.Nr. 2518V..  | CHF    |
|-----------|------|----|-----|---|--------------------|--------|---|-------------------|--------|---|-------------------|--------|
| 2.506V115 |      |    |     |   | no.cde./ order no. |        |   | no.cde./order no. |        |   | no.cde./order no. |        |
| 1.5       | 3    | 6  | 38  | 2 | 2506V. 015         | 19.20  | 3 | 2512V. 015        | 19.20  | 4 | 2518V. 015        | 19.20  |
| 2.0       | 3    | 9  | 38  | 2 | 2506V. 020         | 17.50  | 3 | 2512V. 020        | 17.50  | 4 | 2518V. 020        | 17.50  |
| 2.5       | 3    | 9  | 38  | 2 | 2506V. 025         | 15.60  | 3 | 2512V. 025        | 15.60  | 4 | 2518V. 025        | 15.60  |
| 3.0       | 6    | 8  | 52  | 2 | 2506V. 030         | 14.00  | 3 | 2512V. 030        | 14.00  | 4 | 2518V. 030        | 14.00  |
| 3.5       | 6    | 10 | 54  | 2 | 2506V. 035         | 20.10  | 3 | 2512V. 035        | 20.10  | 4 | 2518V. 035        | 20.10  |
| 4.0       | 6    | 11 | 55  | 2 | 2506V. 040         | 20.10  | 3 | 2512V. 040        | 20.10  | 4 | 2518V. 040        | 20.10  |
| 4.5       | 6    | 11 | 55  | 2 | 2506V. 046         | 22.60  | 3 | 2512V. 046        | 22.60  | 4 | 2518V. 045        | 22.60  |
| 5.0       | 6    | 13 | 57  | 2 | 2506V. 050         | 24.00  | 3 | 2512V. 050        | 24.00  | 4 | 2518V. 050        | 24.00  |
| 5.5*      | 6    | 13 | 57  | 2 | 2506V. 055         | 25.00  | 3 | 2512V. 055        | 22.50  | 4 | 2518V. 055        | 25.60  |
| 6.0       | 6    | 13 | 57  | 2 | 2506V. 060         | 27.10  | 3 | 2512V. 060        | 27.10  | 4 | 2518V. 060        | 27.10  |
| 6.5*      | 8    | 16 | 60  | 2 | 2506V. 065         | 30.30  | 3 | 2512V. 065        | 30.30  | 4 | 2518V. 065        | 30.30  |
| 7.0       | 8    | 16 | 60  | 2 | 2506V. 070         | 29.00  | 3 | 2512V. 070        | 29.00  | 4 | 2518V. 070        | 29.00  |
| 7.5*      | 8    | 19 | 63  | 2 | 2506V. 075         | 36.10  | 3 | 2512V. 075        | 36.10  | 4 | 2518V. 075        | 36.10  |
| 8.0       | 8    | 19 | 63  | 2 | 2506V. 080         | 39.60  | 3 | 2512V. 080        | 39.60  | 4 | 2518V. 080        | 39.60  |
| 8.5*      | 10   | 19 | 69  | 2 | 2506V. 085         | 40.60  | 3 | 2512V. 085        | 40.60  | 4 | 2518V. 085        | 40.60  |
| 9.0       | 10   | 19 | 69  | 2 | 2506V. 090         | 43.70  | 3 | 2512V. 090        | 43.70  | 4 | 2518V. 090        | 43.70  |
| 9.5*      | 10   | 22 | 72  | 2 | 2506V. 095         | 48.00  | 3 | 2512V. 095        | 48.00  | 4 | 2518V. 095        | 48.00  |
| 10.0      | 10   | 22 | 72  | 2 | 2506V. 100         | 48.30  | 3 | 2512V. 100        | 48.30  | 4 | 2518V. 100        | 48.30  |
| 11.0      | 12   | 22 | 79  | 2 | 2506V. 110         | 59.50  | 3 | 2512V. 110        | 59.50  | 4 | 2518V. 110        | 59.50  |
| 12.0      | 12   | 26 | 83  | 2 | 2506V. 120         | 67.10  | 3 | 2512V. 120        | 67.10  | 4 | 2518V. 120        | 67.10  |
| 13.0*     | 12   | 26 | 83  | 2 | 2506V. 130         | 90.70  | 3 | 2512V. 130        | 90.70  | 4 | 2518V. 130        | 90.70  |
| 14.0      | 12   | 26 | 83  | 2 | 2506V. 140         | 95.20  | 3 | 2512V. 140        | 95.20  | 4 | 2518V. 140        | 95.20  |
| 15.0*     | 12   | 26 | 83  | 2 | 2506V. 150         | 130.70 | 3 | 2512V. 150        | 130.70 | 4 | 2518V. 150        | 130.70 |
| 16.0      | 16   | 32 | 92  | 2 | 2506V. 160         | 128.90 | 3 | 2512V. 160        | 128.90 | 4 | 2518V. 160        | 128.90 |
| 18.0      | 16   | 32 | 92  | 2 | 2506V. 180         | 202.20 | 3 | 2512V. 180        | 202.20 | 4 | 2518V. 180        | 202.20 |
| 20.0      | 20   | 38 | 104 | 2 | 2506V. 200         | 232.70 | 3 | 2512V. 200        | 232.70 | 4 | 2518V. 200        | 232.70 |

**2506V..(Z=2)**  
**2512V..(Z=3)**  
**2518V..(Z=4)**



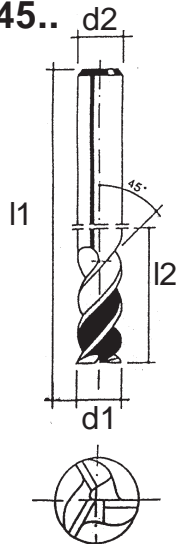
**Aluminium-Fräser in HM** *Fraises p.ALU, carbure* **Carbide ALU-endmill**

- für ALU, Kupfer, Plastik
- Typ W, mit Zentrumschnitt, z=2
- Spannfläche auf Anfrage
- *p. ALU, cuivre, plastique*
- *type W, c. au centre, z=2*
- *méplât sur demande*
- for ALU, copper, plastic
- Typ W with centre cut, z=2
- clamping flat on request

| d1e8      | d2h6 | l2 | l1 | Z | Best.Nr. 2507V..  | CHF   | d1e8 | d2h6 | l2 | l1  | Z | Best.Nr. 2507V..  | CHF    |
|-----------|------|----|----|---|-------------------|-------|------|------|----|-----|---|-------------------|--------|
| 2.507V112 |      |    |    |   | no.cde./order no. |       |      |      |    |     |   | no.cde./order no. |        |
| 2.0       | 3    | 9  | 38 | 2 | 2507V. 020        | 24.40 | 9.0  | 10   | 19 | 69  | 2 | 2507V. 090        | 58.70  |
| 3.0       | 6    | 8  | 52 | 2 | 2507V. 030        | 22.50 | 10.0 | 10   | 22 | 72  | 2 | 2507V. 100        | 64.00  |
| 4.0       | 6    | 11 | 55 | 2 | 2507V. 040        | 23.80 | 12.0 | 12   | 26 | 83  | 2 | 2507V. 120        | 86.20  |
| 5.0       | 6    | 13 | 57 | 2 | 2507V. 050        | 26.30 | 14.0 | 12   | 26 | 83  | 2 | 2507V. 140        | 119.00 |
| 6.0       | 6    | 13 | 57 | 2 | 2507V. 060        | 33.90 | 16.0 | 16   | 32 | 92  | 2 | 2507V. 160        | 155.00 |
| 7.0       | 8    | 16 | 60 | 2 | 2507V. 070        | 40.70 | 18.0 | 16   | 32 | 92  | 2 | 2507V. 180        | 206.00 |
| 8.0       | 8    | 19 | 63 | 2 | 2507V. 080        | 40.70 | 20.0 | 20   | 38 | 104 | 2 | 2507V. 200        | 255.60 |



2512V45..



**Hartmetallschafffräser  
mit Drallwinkel 45 °**

- 3 Schneiden, Zentrumsschnitt
- Mit Zylinderschaft
- Hartmetallsorte K 10

**Fraises en métal dur mo-  
nobloc, angle d'hélice 45 °**

- 3 dents, coupe au centre
- tige cylindrique
- métal dur, nuance K 10

**Carbide endmill with  
45 ° helix**

- 3 teeth, centre cut
- cylindrical shank
- micro grain K 10

| d1   | l2 | l1 | Best.Nr./no.cde./order no. | CHF   | d1    | l2 | l1  | Best.Nr./no.cde./order no. | CHF    |
|------|----|----|----------------------------|-------|-------|----|-----|----------------------------|--------|
| 2.00 | 8  | 32 | 2512V45. 0200              | 20.70 | 8.00  | 20 | 60  | 2512V45. 0800              | 43.50  |
| 2.50 | 8  | 32 | 2512V45. 0250              | 21.20 | 9.00  | 20 | 60  | 2512V45. 0900              | 59.00  |
| 3.00 | 12 | 32 | 2512V45. 0300              | 21.20 | 10.00 | 22 | 70  | 2512V45. 1000              | 56.50  |
| 3.50 | 12 | 32 | 2512V45. 0350              | 21.70 | 11.00 | 22 | 70  | 2512V45. 1100              | 68.40  |
| 4.00 | 12 | 40 | 2512V45. 0400              | 24.90 | 12.00 | 22 | 70  | 2512V45. 1200              | 74.00  |
| 4.50 | 14 | 50 | 2512V45. 0450              | 27.50 | 14.00 | 25 | 75  | 2512V45. 1400              | 89.50  |
| 5.00 | 14 | 50 | 2512V45. 0500              | 28.50 | 16.00 | 25 | 75  | 2512V45. 1600              | 123.30 |
| 5.50 | 10 | 57 | 2512V45. 0550              | 37.30 | 18.00 | 32 | 100 | 2512V45. 1800              | 162.60 |
| 6.00 | 16 | 50 | 2512V45. 0600              | 33.70 | 20.00 | 32 | 100 | 2512V45. 2000              | 184.60 |
| 7.00 | 20 | 60 | 2512V45. 0700              | 54.50 |       |    |     |                            |        |

2.512V45112