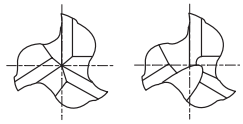
# CARBIDE, 3 FLUTE SHORT LENGTH THROW AWAY

## VOLLHARTMETALL, 3 SCHNEIDEN KURZ EINWEGFRÄSER
## FRAISE CARBURE, 3 DENTS, À JETER, COURTE
## 3 TAGLIENTI, SERIE EXTRA CORTA

- Suitable for dry milling applications at high temperatures.
- Excellent high-performance end mills.
- 3 flute design possesses the advantage of 2 flute and 4 flute end mill.

- Für die Trockenbearbeitung.
- Hervorragendes Preis - Leistungsverhältnis.
- 3 Schneiden verbinden die Vorteile von 2 - und 4 - schneidigen Schaftfräsern.





under Ø2mm from Ø2mm

CARBIDE | 3 | 30° | PLAIN | FLAT | TiAlN

p.C640~C641

Recommended ToolHolder

| | Flat Shank | Plain Shank |
|---|---|---|
| ◎ | END MILL HOLDER | HYDRAULIC CHUCK POWER MILLING CHUCK |
| ◎ | - | SHRINK FIT HOLDER |
| ○ | - | ER COLLET CHUCK SK SLIM CHUCK |

Unit : mm

| EDP No. PLAIN | EDP No. FLAT | Mill Diameter | Shank Diameter | Length of Cut | Overall Length |
|---|---|---|---|---|---|
| G9553005 | - | 0.5 | 3 | 1.5 | 38 |
| G9553006 | - | 0.6 | 3 | 1.5 | 38 |
| G9553008 | - | 0.8 | 3 | 2 | 38 |
| G9553010 | - | 1.0 | 3 | 2 | 38 |
| G9553012 | - | 1.2 | 3 | 2 | 38 |
| G9553015 | - | 1.5 | 3 | 2 | 38 |
| G9553018 | - | 1.8 | 3 | 2 | 38 |
| - | G9410020 | 2.0 | 6 | 4 | 35 |
| - | G9410025 | 2.5 | 6 | 5 | 36 |
| - | G9410030 | 3.0 | 6 | 5 | 36 |
| - | G9410035 | 3.5 | 6 | 6 | 37 |
| - | G9410040 | 4.0 | 6 | 7 | 38 |
| - | G9410045 | 4.5 | 6 | 8 | 38 |
| - | G9410050 | 5.0 | 6 | 8 | 39 |
| - | G9410055 | 5.5 | 6 | 8 | 39 |
| - | G9410957 | 5.75 | 6 | 8 | 39 |
| - | G9410060 | 6.0 | 6 | 8 | 39 |
| - | G9410967 | 6.75 | 8 | 10 | 42 |
| - | G9410070 | 7.0 | 8 | 10 | 42 |
| - | G9410977 | 7.75 | 8 | 10 | 42 |
| - | G9410080 | 8.0 | 8 | 11 | 43 |
| - | G9410087 | 8.7 | 10 | 11 | 48 |
| - | G9410090 | 9.0 | 10 | 11 | 48 |
| - | G9410097 | 9.7 | 10 | 11 | 48 |

▶ NEXT PAGE

| Mill Dia. Tolerance(mm) | Shank Dia. Tolerance |
|---|---|
| 0 ~ - 0.03 | h5 |

◎ : Excellent ○ : Good

| ISO | P | | | | | | | | | | | M | | | K | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Material Description | Non-alloy steel | | | | | Low alloy steel | | | | High alloyed steel, and tool steel | | Stainless steel | | | Grey cast iron | | Nodular cast iron | | Malleable cast iron | |
| VDI 3323 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| HRc | | 13 | 25 | 28 | 32 | 10 | 29 | 32 | 38 | 15 | 35 | 15 | 23 | 10 | 10 | 26 | 3 | 25 | | 21 |
| HB | 125 | 190 | 250 | 270 | 300 | 180 | 275 | 300 | 350 | 200 | 325 | 200 | 240 | 180 | 180 | 260 | 160 | 250 | 130 | 230 |
| Recommend | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

| ISO | N | | | | | | | | | | S | | | | | | | H | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Material Description | Aluminum-wrought alloy | | Aluminum-cast, alloyed | | | Copper and Copper Alloys (Bronze / Brass) | | | Non Metallic Materials | | Heat Resistant Super Alloys | | | | | Titanium Alloys | | Hardened steel | | Chilled Cast Iron | Hardened Cast Iron |
| VDI 3323 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| HRc | | | | | | | | | | | 15 | 30 | 25 | 38 | 34 | | | 55 | 60 | 42 | 55 |
| HB | 60 | 100 | 75 | 90 | 130 | 110 | 90 | 100 | | | 200 | 280 | 250 | 350 | 320 | 400 Rm | 1050 Rm | 550 | 630 | 400 | 550 |
| Recommend | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | ○ | |

# K-2 END MILLS

FLAT SHANK **G9410** SERIES
PLAIN SHANK **G9553** SERIES

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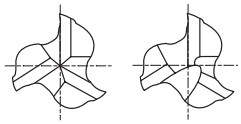

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Unit : mm

| EDP No. PLAIN | EDP No. FLAT | Mill Diameter | Shank Diameter | Length of Cut | Overall Length |
|---|---|---|---|---|---|
| - | G9410100 | 10.0 | 10 | 13 | 50 |
| - | G9410120 | 12.0 | 12 | 15 | 55 |
| - | G9410140 | 14.0 | 14 | 15 | 58 |
| - | G9410160 | 16.0 | 16 | 18 | 62 |
| - | G9410180 | 18.0 | 18 | 20 | 70 |
| - | G9410200 | 20.0 | 20 | 22 | 75 |

| Mill Dia. Tolerance(mm) | Shank Dia. Tolerance |
|---|---|
| 0 ~ - 0.03 | h5 |

◎ : Excellent ○ : Good

| ISO | P | | | | | | | | | | | M | | | K | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| HRc | | 13 | 25 | 28 | 32 | 10 | 29 | 32 | 38 | 15 | 35 | 15 | 23 | 10 | 10 | 26 | 3 | 25 | | 21 |
| HB | 125 | 190 | 250 | 270 | 300 | 180 | 275 | 300 | 350 | 200 | 325 | 200 | 240 | 180 | 180 | 260 | 160 | 250 | 130 | 230 |
| Recommend | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

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| HB | 60 | 100 | 75 | 90 | 130 | 110 | 90 | 100 | | | 200 | 280 | 250 | 350 | 320 | 400 Rm | 1050 Rm | 550 | 630 | 400 | 550 |
| Recommend | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | ○ | |


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