# X-POWER PRO END MILLS

PLAIN SHANK **GM876 SERIES**

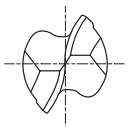
## CARBIDE, 2 FLUTE SHORT LENGTH BALL NOSE

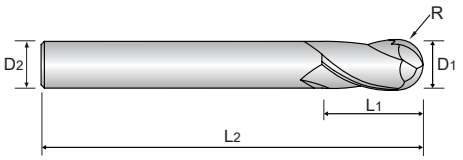
**VOLLHARTMETALL, 2 SCHNEIDEN KURZ KUGELSTIRN**
**Fraise carbure, 2 dents, hémisphérique, courte**
**2 TAGLIENTI, SEMISFERICA, SERIE CORTA**

- Economic type with short overall length.
- Radius tolerance ±0.02mm & short length of cut.

- Günstige Variante, kurze Gesamlänge.
- Radius Toleranz ±0.02mm und kurze Schneidenlänge.






CARBIDE | 2 | 30° | R ±0.02 | PLAIN | Y Coating

p.C412~C413

Recommended ToolHolder
Plain Shank
HYDRAULIC CHUCK
SHRINK FIT HOLDER
POWER MILLING CHUCK
ER COLLET CHUCK
SK SLIM CHUCK

Unit : mm

| EDP No. | Radius of Ball Nose | Mill Diameter | Shank Diameter | Length of Cut | Overall Length |
|---|---|---|---|---|---|
| | R(±0.02) | $D_1$ | $D_2$ | $L_1$ | $L_2$ |
| GM876010 | R0.5 | 1.0 | 3 | 3 | 38 |
| GM876020 | R1.0 | 2.0 | 6 | 3 | 50 |
| GM876030 | R1.5 | 3.0 | 6 | 4 | 50 |
| GM876040 | R2.0 | 4.0 | 6 | 5 | 54 |
| GM876060 | R.3.0 | 6.0 | 6 | 7 | 54 |
| GM876080 | R4.0 | 8.0 | 8 | 9 | 58 |
| GM876100 | R5.0 | 10.0 | 10 | 11 | 66 |
| GM876120 | R6.0 | 12.0 | 12 | 12 | 73 |
| GM876160 | R8.0 | 16.0 | 16 | 16 | 82 |

| 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 | | | | | | | | | | | | | | | | | | ○ | ○ | ◎ | ○ |


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