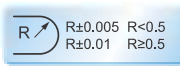
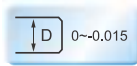
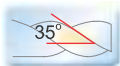
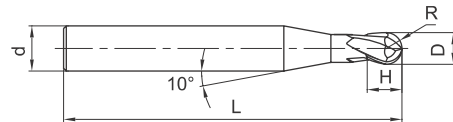
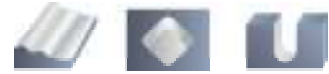


GM-2BS series for general machining · GM-2BS Serie für allgemeine Bearbeitung

2-flute tiny ball nose end mills with straight shank
2-Schneiden Micro-Kugelpkopfräser mit Zylinderschaft



Type Typ	Dimension(mm) Abmessungen					Teeth Zähne Z	Grade Sorte KMG 303
	D	R	d	H	L		
GM-2BS-R0.15	0.30	0.15	4.0	0.5	50	2	●
GM-2BS-R0.20	0.40	0.20	4.0	0.6	50	2	●
GM-2BS-R0.25	0.50	0.25	4.0	0.8	50	2	●
GM-2BS-R0.30	0.60	0.30	4.0	0.9	50	2	●
GM-2BS-R0.35	0.70	0.35	4.0	1.0	50	2	●
GM-2BS-R0.40	0.80	0.40	4.0	1.2	50	2	●
GM-2BS-R0.45	0.90	0.45	4.0	1.3	50	2	●
GM-2BS-R0.50	1.00	0.50	4.0	1.5	50	2	●
GM-2BS-R0.60	1.20	0.60	4.0	1.8	50	2	●
GM-2BS-R0.70	1.40	0.70	4.0	2.0	50	2	●
GM-2BS-R0.75	1.50	0.75	4.0	2.3	50	2	●
GM-2BS-R0.80	1.60	0.80	4.0	2.5	50	2	●
GM-2BS-R0.90	1.80	0.90	4.0	2.7	50	2	●
GM-2BS-R1.00	2.00	1.00	4.0	3.0	50	2	●
GM-2BS-R1.25	2.50	1.25	4.0	3.7	50	2	●
GM-2BS-R1.50	3.00	1.50	4.0	4.5	50	2	●

B

Solid Carbide end mills
Vollhartmetallschaftfräser

Material Overview · Material Übersicht

✓ = Very suitable · Sehr empfohlen
✓ = Suitable · Empfohlen

KMG303

Workpiece material Werkstückstoff											
Carbon steel Kohlenstoff Stahl	Alloy steel Legierter Stahl	Quenched and tempered steel · Vergüteter Stahl		Hardened steel · Gehärteter Stahl		Stainless steel · Rostfreier Stahl	Cast iron, Nodular cast iron Grauguss GGG	Copper alloy Kupfer Leg	Aluminum alloy Alu Leg	Titanium alloy Titan Leg	Heat resist alloy warmfeste Leg
		~40HRC	~50HRC	~55HRC	~68HRC						
✓	✓	✓	✓			✓	✓				



Milling · Fräsen

Solid Carbide end mills · Vollhartmetallschaftfräser

Recommended cutting data · Empfohlene Schnittdaten

GM-2BS

Workpiece material Werkstückstoff	Cast iron, Nodular cast iron Grauguss GGG		Carbon steel, Alloy steel Kohlenstoffstahl Leg. Stahl ~750N/mm ²		Carbon steel, Alloy steel Kohlenstoffstahl Leg. Stahl ~30HRC		Pre-hardened steel, Quenched and tempered steel Vergüteter Stahl ~40HRC		Stainless steel Rostfreier Stahl				
Diameter Ø Durchmesser (mm)	Rotating Drehzahl (min ⁻¹)	Feed Vorschub (mm/min)	Rotating Drehzahl (min ⁻¹)	Feed Vorschub (mm/min)	Rotating Drehzahl (min ⁻¹)	Feed Vorschub (mm/min)	Rotating Drehzahl (min ⁻¹)	Feed Vorschub (mm/min)	Rotating Drehzahl (min ⁻¹)	Feed Vorschub (mm/min)			
R0.15	32000	300	32000	300	32000	270	32000	250	32000	150			
R0.2	32000	380	32000	380	32000	320	32000	300	32000	175			
R0.25	32000	460	32000	460	32000	410	32000	330	32000	205			
R0.3	32000	535	32000	535	32000	500	32000	420	32000	265			
R0.35	32000	550	32000	550	32000	520	32000	440	32000	270			
R0.4	32000	610	32000	610	32000	560	32000	460	27500	285			
R0.45	32000	700	32000	700	32000	600	25000	400	27500	285			
R0.5	32000	765	32000	765	32000	640	25000	400	22000	285			
R1.0	24000	900	24000	900	19000	760	16000	400	11150	230			
R1.5	15500	950	15500	950	12750	760	10600	450	7400	290			
Max. cutting depth max Schnitttiefe													
											Milling slot · Nutenfräsen		
											Ø	Ap	Ae
D<Ø1	0.05R	0.2R											
Ø1≤D≤Ø3	0.1R	0.2R											

1. Please select high precise machine and tool holder.
2. Please use air blow or cutting liquid with high mist retardant property.
3. Make overhang as short as possible if no interference.
4. Reduce feed correspondingly when rotating speed is low.

1. Bitte präzise Maschine und Werkzeugaufnahmen wählen
2. Als Kühlmittel bitte Luft oder MQL (Minimalmengen) verwenden.
3. Werkzeugauskragung so kurz wie möglich wählen.
4. Bitte Vorschub entsprechend reduzieren, wenn die Drehzahlen niedrig sind.