



Profile milling tools · Profilfräser

BMR03 P M K

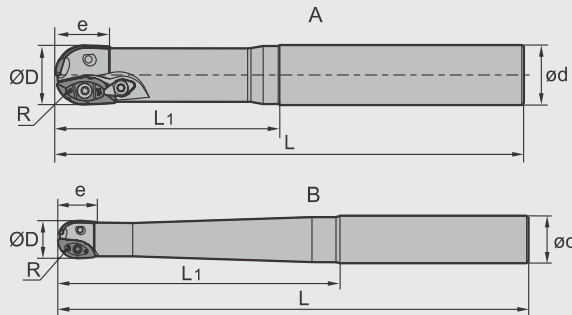
A (Ø30-Ø40)



B (Ø16-Ø25)



Straight shank
Zylinder Schaft



Specification of tools · Werkzeug Beschreibung

Type Typ	Stock Lager	Dimensions (mm) Abmessungen							No. of teeth Zähne	Weight Gewicht (kg)	Type Typ	Clamp Pratze
		R	Ø D	ø d	L	L ₁	e					
BMR03	-016-G20-S	●	8	16	20	150	70	16	2	0.3	B	WD-208
	-016-G20-M	●	8	16	20	180	80	16	2	0.4	B	
	-020-G25-S	●	10	20	25	180	80	20	2	0.5	B	
	-020-G25-M	●	10	20	25	200	100	20	2	0.6	B	
	-020-G25-L	●	10	20	25	250	150	20	2	0.7	B	
	-020-G25-XL	○	10	20	25	300	110	20	2	1.0	B	
	-025-G25-S	●	12.5	25	25	180	80	25	2	0.6	B	
	-025-G25-M	●	12.5	25	25	200	100	25	2	0.7	B	
	-025-G25-L	○	12.5	25	25	250	110	25	2	0.8	B	
	-025-G25-XL	○	12.5	25	25	300	120	25	2	1.0	B	
-030-G32-S	○	15	30	32	200	120	30	2	1.0	A	WD-208	
-030-G32-M	●	15	30	32	250	150	30	2	1.3	A		
-030-G32-L	○	15	30	32	300	200	30	2	1.6	A		
-030-G32-XL	○	15	30	32	350	200	30	2	1.9	A		
-032-G32-S	●	16	32	32	200	120	32	2	1.1	A		
-032-G32-M	●	16	32	32	250	150	32	2	1.4	A		
-032-G32-L	●	16	32	32	300	200	32	2	1.6	A	WD-208	
-032-G32-XL	○	16	32	32	350	200	32	2	2.0	A		
-040-G40-S	○	20	40	40	200	120	40	2	1.6	A		CBH5R1
-040-G40-M	○	20	40	40	250	150	40	2	2.0	A		
-040-G40-L	●	20	40	40	300	200	40	2	2.5	A		
-040-G40-XL	○	20	40	40	350	200	40	2	3.0	A		

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Applicable tool
Werkzeug **B11-B18**

Tools code key
Werkzeug ISO **B25-B27**

Grade selection guide
Sortenauswahl **B19-B23**

Technical data
Technische Daten **B215-B220**

Milling · Fräsen

Indexable Milling Tools · Wendepplattenfräser



Profile milling tools · Profilfräser

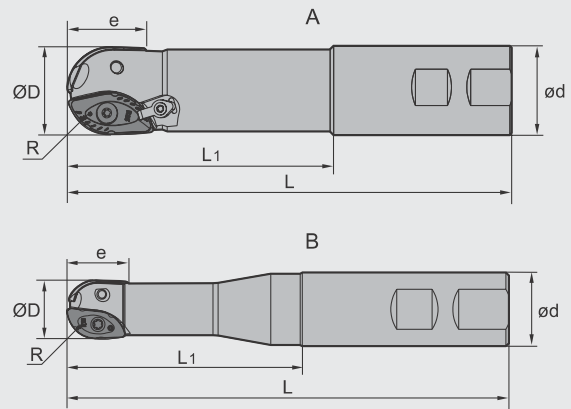
BMR03 P M K

A (Ø30-Ø50)



B (Ø16-Ø25)

Weld on shank
Weld on Schaft



Specification of tools · Werkzeug Beschreibung

	Type Typ	Stock Lager	Dimensions (mm) Abmessungen						No. of teeth Zähne	Weight Gewicht (kg)	Type Typ	Clamp Pratze
			R	Ø D	ø d	L	L1	e				
BMR03	-016-XP20-M	●	8	16	20	111	60	16	2	0.2	B	WD-208
	-020-XP25-M	●	10	20	25	127	70	20	2	0.3	B	
	-020-XP25-L	●	10	20	25	150	80	20	2	0.4	B	
	-025-XP25-M	●	12.5	25	25	137	80	25	2	0.4	B	
	-025-XP25-L	●	12.5	25	25	200	100	25	2	0.6	B	
	-030-XP32-M	●	15	30	32	161	100	30	2	0.8	A	
	-030-XP32-L	●	15	30	32	250	150	30	2	1.3	A	
	-032-XP32-M	●	16	32	32	161	100	32	2	0.8	A	
	-032-XP32-L	○	16	32	32	250	120	32	2	1.3	A	
	-040-XP40-M	○	20	40	40	175	100	40	2	1.3	A	
	-040-XP40-L	●	20	40	40	250	120	40	2	2.0	A	
	-050-XP50-M	○	25	50	50	200	100	50	2	2.5	A	
-050-XP50-L	○	25	50	50	250	150	50	2	3.1	A	CBH5R1	

● Ex Stock / ab Lager ○ On demand / auf Anfrage



Profile milling tools · Profilfräser

BMR03 P M K

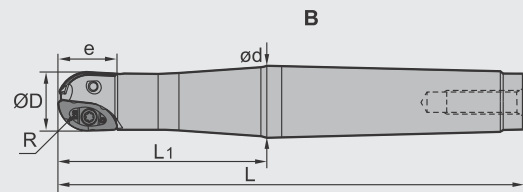
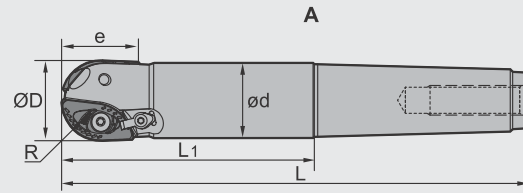
A (Ø30-Ø50)



B (Ø20-Ø25)



Morse taper shank
Morsekegel Schaft



Specification of tools · Werkzeug Beschreibung

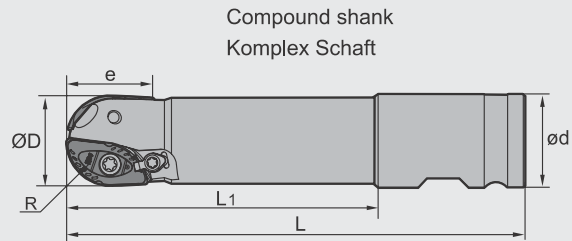
Type Typ	Stock Lager	Dimensions (mm) Abmessungen							No. of teeth Zähne	Weight Gewicht (kg)	type typ	Clamp Pratze
		R	Ø D	ø d	L	L1	e					
BMR03	-020-MT3-M	○	10	20	18.7	156	70	20	2	0.4	B	WD-208
	-020-MT3-L	○	10	20	18.7	186	100	20	2	0.4	B	
	-025-MT3-M	○	12.5	25	23.5	156	70	25	2	0.4	B	
	-025-MT3-L	○	12.5	25	23.5	186	100	25	2	0.4	B	
	-030-MT4-M	○	15	30	28.2	189	70	30	2	0.8	A	
	-030-MT4-L	○	15	30	28.2	229	120	30	2	1.0	A	
	-032-MT4-M	○	16	32	29.2	179	70	32	2	0.9	A	CBH5R1
	-032-MT4-L	●	16	32	29.2	209	100	32	2	0.9	A	
	-040-MT4-M	○	20	40	36.9	199	100	40	2	1.0	A	
	-040-MT5-L	○	20	40	36.9	226	90	40	2	1.8	A	
	-040-MT5-XL	○	20	40	36.9	256	120	40	2	2.0	A	
	-050-MT5-M	●	25	50	46.8	236	100	50	2	2.2	A	
-050-MT5-L	○	25	50	46.8	286	150	50	2	2.9	A		





Profile milling tools · Profilfräser

BMR03 P M K



Specification of tools · Werkzeug Beschreibung

Type Typ	Stock Lager	Dimensions (mm) Abmessungen							No. of teeth Zähne	Weight Gewicht (kg)	Clamp Pratze
		R	Ø D	ø d	L	L ₁	e				
BMR03	-040-XPX-M	○	20	40	50.8	250	170	40	2	1.3	CBH5R1
	-040-XPX-L	○	20	40	50.8	300	220	40	2	3.1	
	-040-XPX-XL	○	20	40	50.8	350	270	40	2	3.5	
	-050-XPX-M	○	25	50	50.8	250	170	50	2	3.1	
	-050-XPX-L	○	25	50	50.8	300	200	50	2	3.8	
	-050-XPX-XL	○	25	50	50.8	350	270	50	2	4.4	

Spare parts · Ersatzteile

Diameter Durchmesser Ø D	Clamp Pratze	Screw Schraube	Wrench Schlüssel	
Φ16	--	I60M2.5×6.5	--	WT07P
Φ20	--	I60M3.5×08TT		WT10IP
Φ25	--	I60M4×10		WT15S
Φ30	WD-208	I60M5×13	WT20IT	--
Φ32	WD-208	I60M5×13		
Φ40	CBH5R1	I43M6×16	WT25IT	
Φ50	CBH5R1	I43M8×21	WT25IT	
		I43M6×16	WT30IT	

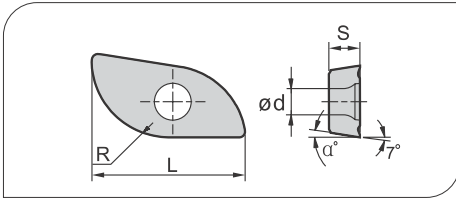


● Ex Stock / ab Lager ○ On demand / auf Anfrage

Milling · Fräsen

Indexable Milling Tools · Wendeplattenfräser

■ Applicable inserts · Wendschneidplatten



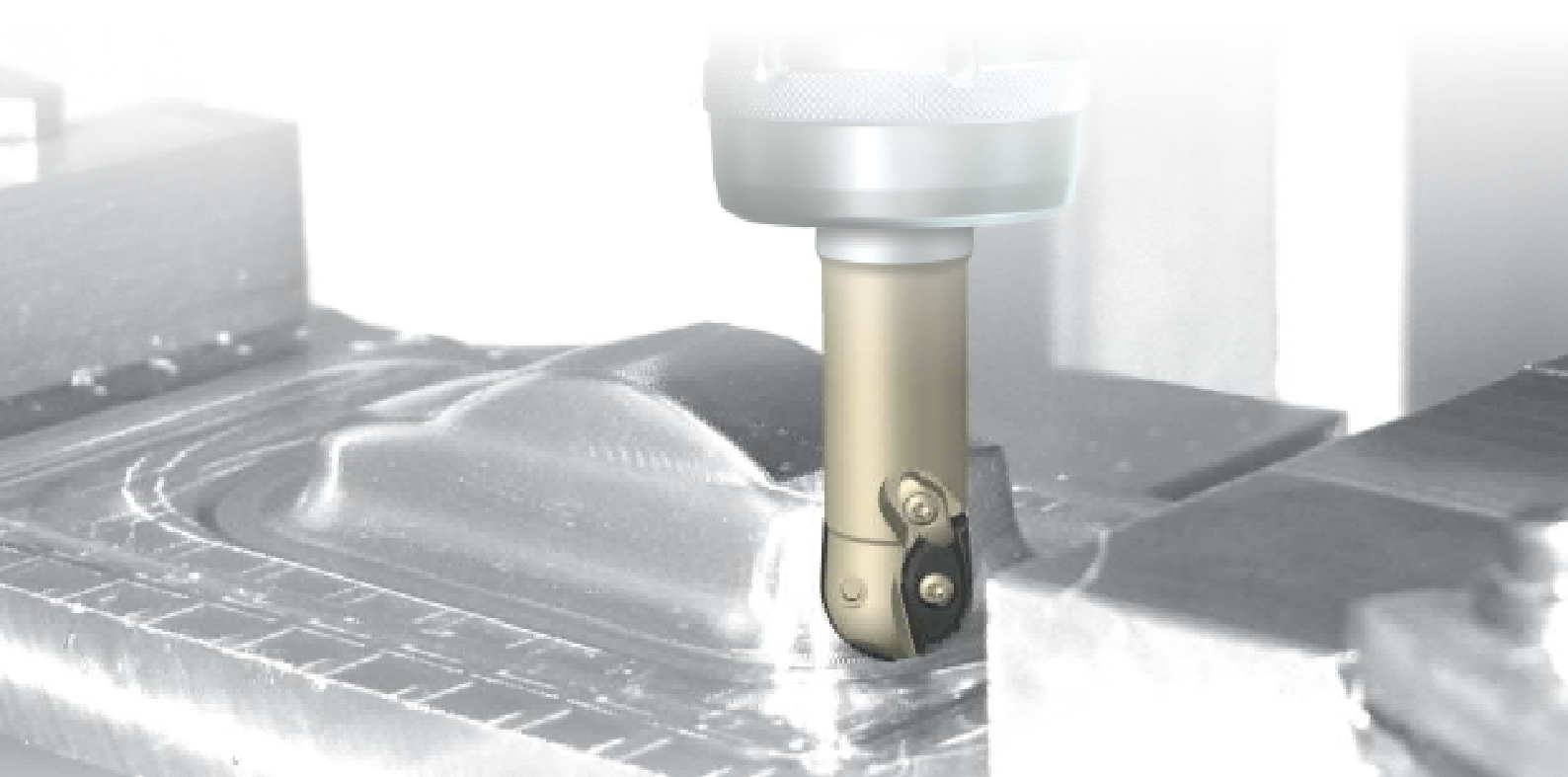
● Ideal Machining Condition / Gute Bearbeitungsbedingungen
● Normal Machining Condition / Normale Bearbeitungsbedingungen
● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen

Workpiece Material / Werkstoffe	P	M	K	N	S
P Steel / Stahl	●	●	●	●	●
M Stainless Steel / rostfrei Stahl	●	●	●	●	●
K Cast iron / Gussstahl	●	●	●	●	●
N Non-ferrous material / No Metals					
S Heat-resistant steel / Hitzestahl					

Insert WSP	Type Typ	Dimensions (mm) / Abmessungen						CVD Coating / CVD Beschicht.						PVD Coating / PVD Beschicht.				Cermet / Cermet	Carbide uncoat. / unbe. Hartmetall								
		R	d	S	α°	L	Applicable tools / Entsprechendes Werkzeug	YBC301	YBC302	YBC401	YBM251	YBM253	YBM351	YBD152	YBD252	YBG102	YBG202		YBG205	YBG302	YBG152	YBG252	YNG151	YNG151C	YC30S	YD101	YD201
	XPHT16R0803-GM	8	3.1	3.18	9	16	Φ16												●								
	XPHT20R10T3-GM	10	4.0	3.97	9	20	Φ20												●								
	XPHT25R1204-GM	12.5	4.7	4.76	9	25	Φ25												●								
	XPHT30R1506-GM	15	5.8	6.35	11	30	Φ30												●								
	XPHT32R1606-GM	16	5.8	6.35	9	32	Φ32												●								
	XPHT40R2007-GM	20	6.8	7.94	9	40	Φ40												●								
	XPHT50R2507-GM	25	9.2	7.94	9	50	Φ50												●								

B

Milling Tools
Fräser



Diameter range
Durchmesser Bereich Ø16

Recommended Cutting data - Schnittdaten

Operations Anwendung						
Workpiece material Werkstückstoff	Cutting data Schnittdaten	Machining of slot Nutenfräsen	Side milling (slight) Schulterfräsen		Side milling (deep) Schulterfräsen	Grade Sorte
Medium carbon steel Kohlenstoffstahl Hardness Härte 150~250HB	V(m/min)	150~220	150~220	150~220	150~220	YBG302
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	4	4	8	16	
	a _e (mm)	--	3	4	1.5	
Alloy steel Leg. Stahl Hardness Härte 150~280HB	V(m/min)	100~150	100~150	100~150	100~150	
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	4	4	8	16	
	a _e (mm)	--	3	4	1.5	
Die steel Gesenkstahl Hardness Härte 150~255HB	V(m/min)	80~120	80~120	80~120	80~120	
	Fz(mm/z)	0.1~0.3	0.1~0.3	0.1~0.3	0.1~0.3	
	a _p (mm)	4	4	8	16	
	a _e (mm)	--	3	4	1.5	
Hardened steel gehärteter Stahl Hardness Härte 40~50HRC	V(m/min)	80~100	80~100	80~100	--	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	--	
	a _p (mm)	4	4	8	--	
	a _e (mm)	--	2	3	--	
Grey Cast iron Grauguss Hardness Härte 160~260HB	V(m/min)	250~300	250~300	250~300	250~300	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	4	4	8	16	
	a _e (mm)	--	3	4	1.5	
Nodular Cast iron Kugelgraphitguss Hardness Härte 170~300HB	V(m/min)	200~250	200~250	200~250	200~250	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	4	4	8	16	
	a _e (mm)	--	3	4	1.5	

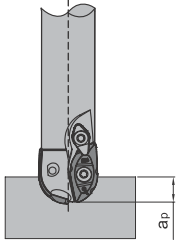
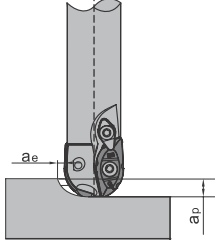
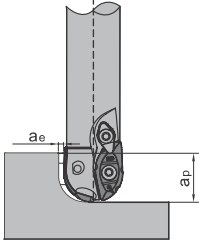
Milling · Fräsen

Indexable Milling Tools · Wendeplattenfräser

Diameter range Ø20

Durchmesser Bereich Ø20

■ Recommended Cutting data · Schnittdaten

Operations Anwendung						
Workpiece material Werkstückstoff	Cutting data Schnittdaten	Machining of slot Nutenfräsen	Side milling (slight) Schulterfräsen		Side milling (deep) Schulterfräsen	Grade Sorte
Medium carbon steel Kohlenstoffstahl Hardness Härte 150~250HB	V(m/min)	150~220	150~220	150~220	150~220	YBG302
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	5	5	10	20	
	a _e (mm)	--	4	5	2	
Alloy steel Leg. Stahl Hardness Härte 150~280HB	V(m/min)	100~150	100~150	100~150	100~150	
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	5	5	10	20	
	a _e (mm)	--	4	5	2	
Die steel Gesenkstahl Hardness Härte 150~255HB	V(m/min)	80~120	80~120	80~120	80~120	
	Fz(mm/z)	0.1~0.3	0.1~0.3	0.1~0.3	0.1~0.3	
	a _p (mm)	5	5	10	20	
	a _e (mm)	--	4	5	2	
Hardened steel gehärteter Stahl Hardness Härte 40~50HRC	V(m/min)	80~100	80~100	80~100	--	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	--	
	a _p (mm)	5	5	10	--	
	a _e (mm)	--	4	5	--	
Grey Cast iron Grauguss Hardness Härte 160~260HB	V(m/min)	250~300	250~300	250~300	250~300	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	5	5	10	20	
	a _e (mm)	--	4	5	2	
Nodular Cast iron Kugelgraphitguss Hardness Härte 170~300HB	V(m/min)	200~250	200~250	200~250	200~250	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	5	5	10	20	
	a _e (mm)	--	4	5	2	

B
Milling Tools
Fräser

Diameter range
Durchmesser Bereich Ø25

Recommended Cutting data · Schnittdaten

Operations Anwendung						
Workpiece material Werkstückstoff	Cutting data Schnittdaten	Machining of slot Nutenfräsen	Side milling (slight) Schulterfräsen		Side milling (deep) Schulterfräsen	Grade Sorte
Medium carbon steel Kohlenstoffstahl Hardness Härte 150~250HB	V(m/min)	150~220	150~220	150~220	150~220	YBG302
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	6	6	12.5	25	
	a _e (mm)	--	5	6.5	3	
Alloy steel Leg. Stahl Hardness Härte 150~280HB	V(m/min)	100~150	100~150	100~150	100~150	
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	6	6	12.5	25	
	a _e (mm)	--	5	6.5	3	
Die steel Gesenkstahl Hardness Härte 150~255HB	V(m/min)	80~120	80~120	80~120	80~120	
	Fz(mm/z)	0.1~0.3	0.1~0.3	0.1~0.3	0.1~0.3	
	a _p (mm)	6	6	12.5	25	
	a _e (mm)	--	5	6.5	3	
Hardened steel gehärteter Stahl Hardness Härte 40~50HRC	V(m/min)	80~100	80~100	80~100	--	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	--	
	a _p (mm)	6	6	12.5	--	
	a _e (mm)	--	5	6.5	--	
Grey Cast iron Grauguss Hardness Härte 160~260HB	V(m/min)	250~300	250~300	250~300	250~300	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	6	6	12.5	25	
	a _e (mm)	--	5	6.5	3	
Nodular Cast iron Kugelgrafitguss Hardness Härte 170~300HB	V(m/min)	200~250	200~250	200~250	200~250	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	6	6	12.5	25	
	a _e (mm)	--	5	6.5	3	

Milling · Fräsen

Indexable Milling Tools · Wendeplattenfräser

Diameter range
Durchmesser Bereich Ø30 Ø32

Recommended Cutting data · Schnittdaten

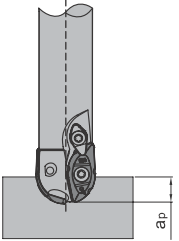
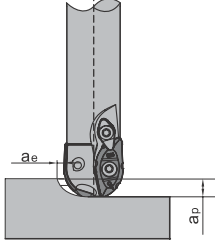
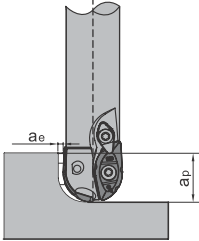
Operations Anwendung						
Workpiece material Werkstückstoff	Cutting data Schnittdaten	Machining of slot Nutenfräsen	Side milling (slight) Schulterfräsen		Side milling (deep) Schulterfräsen	Grade Sorte
Medium carbon steel Kohlenstoffstahl Hardness Härte 150~250HB	V(m/min)	150~220	150~220	150~220	150~220	YBG302
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	10	10	16	28	
	a _e (mm)	--	6	9	6	
Alloy steel Leg. Stahl Hardness Härte 150~280HB	V(m/min)	100~150	100~150	100~150	100~150	
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	10	10	16	28	
	a _e (mm)	--	6	9	6	
Die steel Gesenkstahl Hardness Härte 150~255HB	V(m/min)	80~120	80~120	80~120	80~120	
	Fz(mm/z)	0.1~0.3	0.1~0.3	0.1~0.3	0.1~0.3	
	a _p (mm)	10	10	16	28	
	a _e (mm)	--	6	9	6	
Hardened steel gehärteter Stahl Hardness Härte 40~50HRC	V(m/min)	80~100	80~100	80~100	--	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	--	
	a _p (mm)	10	10	16	--	
	a _e (mm)	--	6	9	--	
Grey Cast iron Grauguss Hardness Härte 160~260HB	V(m/min)	250~300	250~300	250~300	250~300	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	10	10	16	28	
	a _e (mm)	--	6	9	6	
Nodular Cast iron Kugelgranitguss Hardness Härte 170~300HB	V(m/min)	200~250	200~250	200~250	200~250	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	10	10	16	28	
	a _e (mm)	--	6	9	6	

B
Milling Tools
Fräser

Diameter range

Durchmesser Bereich Ø40

Recommended Cutting data - Schnittdaten

Operations Anwendung						
Workpiece material Werkstückstoff	Cutting data Schnittdaten	Machining of slot Nutenfräsen	Side milling (slight) Schulterfräsen		Side milling (deep) Schulterfräsen	Grade Sorte
Medium carbon steel Kohlenstoffstahl Hardness Härte 150~250HB	V(m/min)	150~220	150~220	150~220	150~220	YBG302
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	12	10	20	35	
	a _e (mm)	--	8	12	8	
Alloy steel leg. Stahl Hardness Härte 150~280HB	V(m/min)	100~150	100~150	100~150	100~150	
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	12	10	20	35	
	a _e (mm)	--	8	12	8	
Die steel Gesenkstahl Hardness Härte 150~255HB	V(m/min)	80~120	80~120	80~120	80~120	
	Fz(mm/z)	0.1~0.3	0.1~0.3	0.1~0.3	0.1~0.3	
	a _p (mm)	12	10	20	35	
	a _e (mm)	--	8	12	8	
Hardened steel gehärteter Stahl Hardness Härte 40~50HRC	V(m/min)	80~100	80~100	80~100	--	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	--	
	a _p (mm)	12	10	20	--	
	a _e (mm)	--	8	12	--	
Grey Cast iron Grauguss Hardness Härte 160~260HB	V(m/min)	250~300	250~300	250~300	250~300	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	12	10	20	35	
	a _e (mm)	--	8	12	8	
Nodular Cast iron Kugelgranitguss Hardness Härte 170~300HB	V(m/min)	200~250	200~250	200~250	200~250	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	12	10	20	35	
	a _e (mm)	--	8	12	8	

Milling · Fräsen

Indexable Milling Tools · Wendeplattenfräser

Diameter range
Durchmesser Bereich Ø50

Recommended Cutting data · Schnittdaten

Operations Anwendung						Grade Sorte
Workpiece material Werkstückstoff	Cutting data Schnittdaten	Machining of slot Nutenfräsen	Side milling (slight) Schulterfräsen		Side milling (deep) Schulterfräsen	
Medium carbon steel Kohlenstoffstahl Hardness Härte 150~250HB	V(m/min)	150~220	150~220	150~220	150~220	YBG302
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	15	10	25	40	
	a _e (mm)	--	10	15	10	
Alloy steel leg. Stahl Hardness Härte 150~280HB	V(m/min)	100~150	100~150	100~150	100~150	
	Fz(mm/z)	0.1~0.4	0.1~0.4	0.1~0.4	0.1~0.4	
	a _p (mm)	15	10	25	40	
	a _e (mm)	--	10	15	10	
Die steel Gesenkstahl Hardness Härte 150~255HB	V(m/min)	80~120	80~120	80~120	80~120	
	Fz(mm/z)	0.1~0.3	0.1~0.3	0.1~0.3	0.1~0.3	
	a _p (mm)	15	10	25	40	
	a _e (mm)	--	10	15	10	
Hardened steel gehärteter Stahl Hardness Härte 40~50HRC	V(m/min)	80~100	80~100	80~100	—	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	—	
	a _p (mm)	15	10	25	—	
	a _e (mm)	--	10	15	—	
Grey Cast iron Grauguss Hardness Härte 160~260HB	V(m/min)	250~300	250~300	250~300	250~300	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	15	10	25	40	
	a _e (mm)	--	10	15	10	
Nodular Cast iron Kugelgraphitguss Hardness Härte 170~300HB	V(m/min)	200~250	200~250	200~250	200~250	
	Fz(mm/z)	0.08~0.15	0.08~0.15	0.08~0.15	0.08~0.15	
	a _p (mm)	15	10	25	40	
	a _e (mm)	--	10	15	10	

B
Milling Tools
Fräser