

CARBIDE



Being the best through innovation











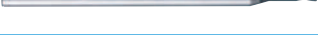

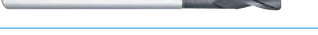
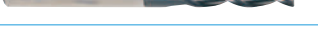

D-POWER

D-POWER FRÄSER

- D-Power for Graphites.
Economy type for Low Silicon Aluminium and Copper Alloys.
- Für Graphit.
Wirtschaftlicher Einsatz bei Aluminium mit geringem Silizium-Anteil und Kupferlegierungen.














SELECTION GUIDE

DIAMOND COATED CARBIDE END MILLS for GRAPHITE DIAMANT - BECHICHTET FRÄSER für GRAPHIT

ITEM	MODEL	DESCRIPTION	SIZE		PAGE
			MIN	MAX	
EI997		CARBIDE, 2 FLUTE MINIATURE BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN MINI STIRNRADIUS	R0.1	R3.0	742
EIB93		CARBIDE, 2 FLUTE MINIATURE BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN MINI STIRNRADIUS	R0.2	R2.0	744
EI880		CARBIDE, 2 FLUTE SHORT LENGTH BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN KURZ STIRNRADIUS	R1.0	R6.0	745
EI451		CARBIDE, 2 FLUTE LONG LENGTH BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN LANG STIRNRADIUS	R1.0	R6.0	746
EI450		CARBIDE, 2 FLUTE LONG REACH BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN GROÙE REICHWEITE STIRNRADIUS	R1.0	R6.0	747
EI881		CARBIDE, 3 FLUTE SHORT LENGTH BALL NOSE VOLLHARTMETALL, 3 SCHNEIDEN KURZ STIRNRADIUS	R1.0	R6.0	748
EIB04		CARBIDE, 2 FLUTE LONG LENGTH VOLLHARTMETALL, 2 SCHNEIDEN LANG	D0.5	D12.0	749
EIB87		CARBIDE, 2 FLUTE BALL NOSE with TAPER NECK VOLLHARTMETALL, 2 SCHNEIDEN STIRNRADIUS mit KONISCH ABGESETZTEM SCHAFTTEIL	R0.5	R1.0	750
EI996		CARBIDE, 2 FLUTE MINIATURE CORNER RADIUS VOLLHARTMETALL, 2 SCHNEIDEN MINI ECKENRADIUS	D0.2	D6.0	751
EIB86		CARBIDE, 2 FLUTE CORNER RADIUS with TAPER NECK VOLLHARTMETALL, 2 SCHNEIDEN ECKENRADIUS mit KONISCH ABGESETZTEM SCHAFTTEIL	D1.0	D2.0	753
EIB88		CARBIDE, 4 FLUTE CORNER RADIUS VOLLHARTMETALL, 4 SCHNEIDEN ECKENRADIUS	D6.0	D12.0	754
EIA13		CARBIDE, 3 FLUTE 40° HELIX SHORT LENGTH CORNER RADIUS VOLLHARTMETALL, 3 SCHNEIDEN 40° RECHTSSPIRALE KURZ ECKENRADIUS	D2.0	D12.0	755
EIA14		CARBIDE, 3 FLUTE 40° HELIX LONG LENGTH CORNER RADIUS VOLLHARTMETALL, 3 SCHNEIDEN 40° RECHTSSPIRALE LANG ECKENRADIUS	D2.0	D12.0	756

SELECTION GUIDE

D-POWER ECONOMY DIAMOND COATED CARBIDE END MILLS D-POWER KOSTENGÜNSTIGE DIAMANT-BECHICHTET FRÄSER

ITEM	MODEL	DESCRIPTION	SIZE		PAGE
			MIN	MAX	
GEB46		CARBIDE, 2 FLUTE MINIATURE BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN MINI STIRNRADIUS	R0.1	R3.0	757
GE944		CARBIDE, 2 FLUTE SHORT LENGTH BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN KURZ STIRNRADIUS	R1.0	R6.0	759
GE945		CARBIDE, 2 FLUTE LONG LENGTH BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN LANG STIRNRADIUS	R1.0	R6.0	760
GE946		CARBIDE, 2 FLUTE LONG REACH BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN GROÙE REICHWEITE STIRNRADIUS	R1.0	R6.0	761
GE947		CARBIDE, 3 FLUTE SHORT LENGTH BALL NOSE VOLLHARTMETALL, 3 SCHNEIDEN KURZ STIRNRADIUS	R1.0	R6.0	762
GE927		CARBIDE, 2 FLUTE LONG LENGTH VOLLHARTMETALL, 2 SCHNEIDEN LANG	D0.5	D12.0	763
GEB02		CARBIDE, 2 FLUTE BALL NOSE with TAPER NECK VOLLHARTMETALL, 2 SCHNEIDEN STIRNRADIUS mit KONISCH ABGESETZTEM SCHAFTTEIL	R0.5	R1.0	764
GEB45		CARBIDE, 2 FLUTE MINIATURE CORNER RADIUS VOLLHARTMETALL, 2 SCHNEIDEN MINI ECKENRADIUS	D0.2	D6.0	765
GEB01		CARBIDE, 2 FLUTE CORNER RADIUS with TAPER NECK VOLLHARTMETALL, 2 SCHNEIDEN ECKENRADIUS mit KONISCH ABGESETZTEM SCHAFTTEIL	D1.0	D2.0	767
GEB03		CARBIDE, 4 FLUTE CORNER RADIUS VOLLHARTMETALL, 4 SCHNEIDEN ECKENRADIUS	D6.0	D12.0	768
GE926		CARBIDE, 2 FLUTE 45° HELIX VOLLHARTMETALL, 2 SCHNEIDEN 45° RECHTSSPIRALE	D1.0	D20.0	769
GE928		CARBIDE, 3 FLUTE 40° HELIX SHORT LENGTH CORNER RADIUS VOLLHARTMETALL, 3 SCHNEIDEN 40° RECHTSSPIRALE KURZ ECKENRADIUS	D2.0	D12.0	770
GE929		CARBIDE, 3 FLUTE 40° HELIX LONG LENGTH CORNER RADIUS VOLLHARTMETALL, 3 SCHNEIDEN 40° RECHTSSPIRALE LANG ECKENRADIUS	D2.0	D12.0	771
RECOMMENDED CUTTING CONDITIONS EMPFOHLENE SCHNEIDKONDITIONEN					772

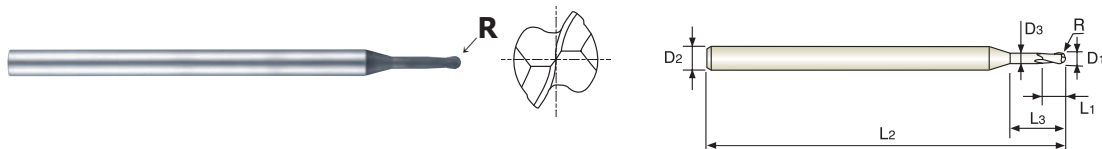


PLAIN SHANK
GLATTER ZYLINDERSCHAFT

CARBIDE, 2 FLUTE MINIATURE BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN MINI STIRNRADIUS

- ▶ Higher hardness of film and excellent wear-resistance increase the tool life surprisingly.
- ▶ Ultra fine film of YG-1's diamond coated carbide ball end mills ensure the smooth and excellent surface on work materials.
- ▶ High performance on graphite, wrought aluminum, bakelite, plastics, wood, brass etc. YG-1's diamond coated carbide ball end mills have good result for the machining of non-ferrous metals and non-metallic materials.

- ▶ Höhere Härte der Beschichtung und ausgezeichnete Verschleißfestigkeit verlängern die Standzeit beachtlich.
- ▶ Ultrafeiner Film auf YG-1 Diamant - beschichteten Hartmetall Schaftfräser gewährleisten eine glatte und ausgezeichnete Oberflächengüte.
- ▶ Hohe Leistungsfähigkeit bei Graphit, Aluminium ohne Silicon, Bakelit, Plastik, Holz, Messing, etc. YG-1 Diamant - beschichtete Hartmetall Schaftfräser zeigen gute Ergebnisse beim Bearbeiten von NE - Metallen und Nichtmetall - Werkstoffen.



Unit : mm

EDP No.	Radius of Ball Nose	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
	R (±0.01)						
EI997002000040	RO.1	0.2	3	0.2	-	40	-
EI997003000040	RO.15	0.3	3	0.3	-	40	-
EI997004000040	RO.2	0.4	3	0.4	-	40	-
EI997005025040	RO.25	0.5	3	0.5	2.5	40	0.45
EI997006	RO.3	0.6	3	0.6	3	40	0.55
EI997006050040	RO.3	0.6	3	0.6	5	40	0.55
EI997008	RO.4	0.8	3	0.8	4	40	0.75
EI997008070040	RO.4	0.8	3	0.8	7	40	0.75
EI997010	RO.5	1.0	3	1	5	40	0.95
EI997903	RO.5	1.0	3	1	8.5	40	0.95
EI997010120040	RO.5	1.0	3	1	12	40	0.95
EI997012	RO.6	1.2	3	1.2	6	50	1.15
EI997012100050	RO.6	1.2	3	1.2	10	50	1.15
EI997015	RO.75	1.5	3	1.5	7.5	50	1.4
EI997906	RO.75	1.5	3	1.5	12	50	1.4
EI997015180050	RO.75	1.5	3	1.5	18	50	1.4
EI997020	R1.0	2.0	3	2.2	10	60	1.9
EI997908	R1.0	2.0	3	2.2	16	60	1.9
EI997020250060	R1.0	2.0	3	2.2	25	60	1.9
EI997030100065	R1.5	3.0	4	3	10	65	2.9
EI997030150065	R1.5	3.0	4	3	15	65	2.9
EI997030200065	R1.5	3.0	4	3	20	65	2.9
EI997030250075	R1.5	3.0	4	3	25	75	2.9
EI997030300075	R1.5	3.0	4	3	30	75	2.9
EI997040200065	R2.0	4.0	6	4	20	65	3.9
EI997040300075	R2.0	4.0	6	4	30	75	3.9
EI997040400090	R2.0	4.0	6	4	40	90	3.9

◎ : Excellent ○ : Good

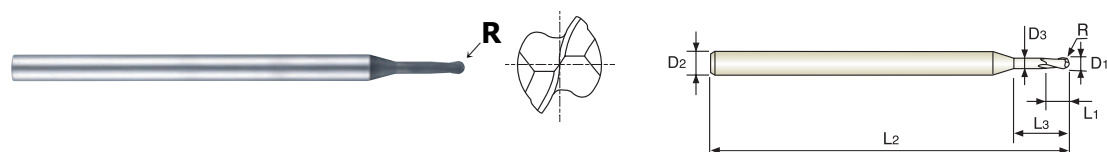
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225-325	HRc30-40	HRc40-45	HRc45-55	HRc55-70							
							◎		○			

CARBIDE, 2 FLUTE MINIATURE BALL NOSE

VOLLHARTMETALL, 2 SCHNEIDEN MINI STIRNRADIUS

- ▶ Higher hardness of film and excellent wear-resistance increase the tool life surprisingly.
- ▶ Ultra fine film of YG-1's diamond coated carbide ball end mills ensure the smooth and excellent surface on work materials.
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- ▶ Ultrafeiner Film auf YG-1 Diamant - beschichteten Hartmetall Schaffräser gewährleisten eine glatte und ausgezeichnete Oberflächengüte.
- ▶ Hohe Leistungsfähigkeit bei Graphit, Aluminium ohne Silicon, Bakelit, Plastik, Holz, Messing, etc. YG-1 Diamant - beschichtete Hartmetall Schaffräser zeigen gute Ergebnisse beim Bearbeiten von NE - Metallen und Nichtmetall - Werkstoffen.



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Unit : mm

EDP No.	Radius of Ball Nose R (±0.01)	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
EI997050200065	R2.5	5.0	6	5	20	65	4.9
EI997050300075	R2.5	5.0	6	5	30	75	4.9
EI997050400090	R2.5	5.0	6	5	40	90	4.9
EI997050500090	R2.5	5.0	6	5	50	90	4.9
EI997060300075	R3.0	6.0	6	6	30	75	5.9
EI997060400090	R3.0	6.0	6	6	40	90	5.9
EI997060500090	R3.0	6.0	6	6	50	90	5.9
EI997060600100	R3.0	6.0	6	6	60	100	5.9

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.02	h6

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

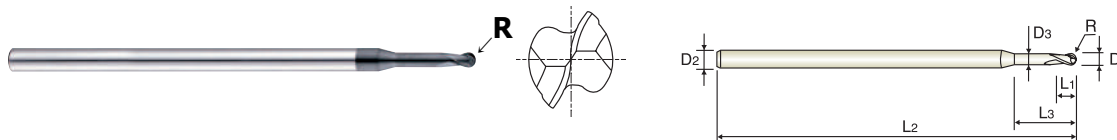


PLAIN SHANK
GLATTER ZYLINDERSCHAFT

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Unit : mm

EDP No.	Radius of Ball Nose	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R (±0.01)	D1	D2	L1	L3	L2	D3
EIB93004040	RO.2	0.4	4	0.6	4	45	0.36
EIB93004060	RO.2	0.4	4	0.6	6	45	0.36
EIB93006040	RO.3	0.6	4	1	4	45	0.56
EIB93006060	RO.3	0.6	4	1	6	45	0.56
EIB93006080	RO.3	0.6	4	1	8	45	0.56
EIB93010060	RO.5	1.0	4	1.5	6	45	0.95
EIB93010080	RO.5	1.0	4	1.5	8	45	0.95
EIB93010120	RO.5	1.0	4	1.5	12	45	0.95
EIB93015120	RO.75	1.5	4	1.75	12	45	1.45
EIB93020080	R1.0	2.0	4	3	8	60	1.95
EIB93020120	R1.0	2.0	4	3	12	60	1.95
EIB93020160	R1.0	2.0	4	3	16	60	1.95
EIB93040160	R2.0	4.0	4	6	16	60	3.9

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.02	h6

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70		◎		○			

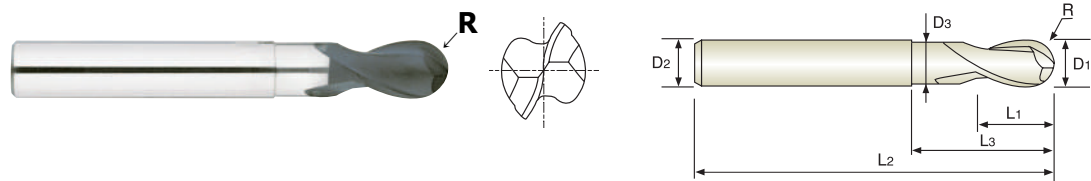
◎ : Excellent ○ : Good

CARBIDE, 2 FLUTE SHORT LENGTH BALL NOSE

VOLLHARTMETALL, 2 SCHNEIDEN KURZ STIRNRADIUS

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P.772

Unit : mm

EDP No.	Radius of Ball Nose R (±0.01)	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
EI880020	R1.0	2.0	6	3	5	60	1.9
EI880025	R1.25	2.5	6	4	6	60	2.4
EI880030	R1.5	3.0	6	4.5	6.5	60	2.8
EI880035	R1.75	3.5	6	5	7	65	3.2
EI880040	R2.0	4.0	6	6	8	65	3.7
EI880050	R2.5	5.0	6	7.5	10	65	4.6
EI880060	R3.0	6.0	6	9	12	75	5.6
EI880080	R4.0	8.0	8	12	25	75	7.4
EI880100	R5.0	10.0	10	15	30	80	9.4
EI880120	R6.0	12.0	12	18	36	90	11.4

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

- CARBIDE
- HSS
- CBN END MILLS
- i-Xmill END MILLS
- X5070 END MILLS
- X-POWER END MILLS
- JET-POWER END MILLS
- V7 Mill INOX END MILLS
- V7 Mill STEEL END MILLS
- ALU-POWER END MILLS
- D-POWER END MILLS
- K-2 CARBIDE END MILLS
- GENERAL CARBIDE END MILLS
- TANK-POWER END MILLS
- GENERAL HSS END MILLS
- MILLING CUTTERS
- TECHNICAL DATA

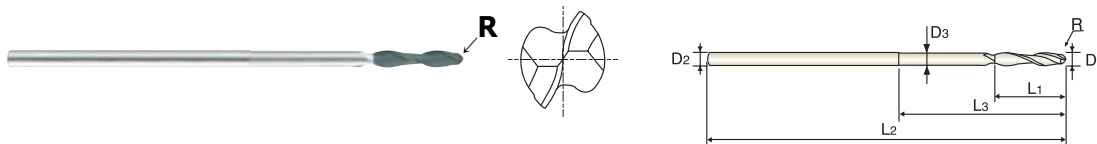


PLAIN SHANK
GLATTER ZYLINDERSCHAFT

CARBIDE, 2 FLUTE LONG LENGTH BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN LANG STIRNRADIUS

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Unit : mm

EDP No.	Radius of Ball Nose	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R (±0.01)	D1	D2	L1	L3	L2	D3
E1451020	R1.0	2.0	4	10	20	80	1.95
E1451030	R1.5	3.0	4	15	25	80	2.9
E1451040	R2.0	4.0	4	20	30	80	3.9
E1451050	R2.5	5.0	6	30	50	100	4.9
E1451060	R3.0	6.0	6	30	50	100	5.5
E1451070	R3.5	7.0	6	30	-	100	-
E1451080	R4.0	8.0	8	40	60	110	7.5
E1451090	R4.5	9.0	8	40	-	110	-
E1451100	R5.0	10.0	10	50	70	120	9.5
E1451120	R6.0	12.0	12	55	75	130	11.5

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

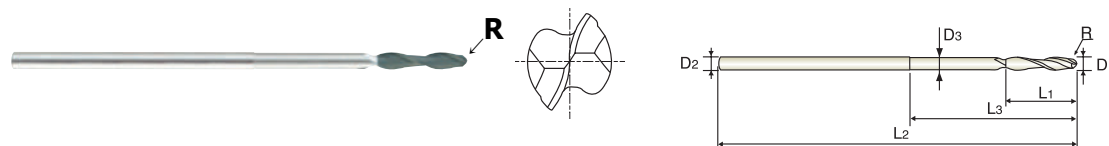
◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

CARBIDE, 2 FLUTE LONG REACH BALL NOSE

VOLLHARTMETALL, 2 SCHNEIDEN GROÙE REICHWEITE STIRNRADIUS

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Unit : mm

EDP No.	Radius of Ball Nose R (±0.01)	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
EI450020	R1.0	2.0	4	10	20	100	1.95
EI450030	R1.5	3.0	4	15	25	100	2.9
EI450040	R2.0	4.0	4	20	30	100	3.9
EI450050	R2.5	5.0	6	30	50	120	4.9
EI450060	R3.0	6.0	6	30	50	150	5.5
EI450070	R3.5	7.0	6	30	-	150	-
EI450080	R4.0	8.0	8	40	60	150	7.5
EI450090	R4.5	9.0	8	40	-	150	-
EI450100	R5.0	10.0	10	50	70	180	9.5
EI450120	R6.0	12.0	12	55	75	200	11.5

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

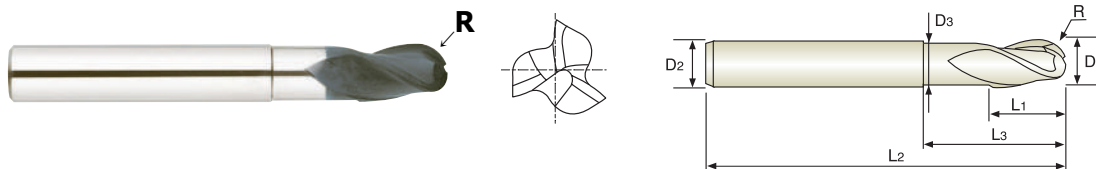


PLAIN SHANK
GLATTER ZYLINDERSCHAFT

CARBIDE, 3 FLUTE SHORT LENGTH BALL NOSE VOLLHARTMETALL, 3 SCHNEIDEN KURZ STIRNRADIUS

- ▶ Higher hardness of film and excellent wear-resistance increase the tool life surprisingly.
- ▶ Ultra fine film of YG-1's diamond coated carbide ball end mills ensure the smooth and excellent surface on work materials.
- ▶ High performance on graphite, wrought aluminum, bakelite, plastics, wood, brass etc. YG-1's diamond coated carbide ball end mills have good result for the machining of non-ferrous metals and non-metallic materials.

- ▶ Höhere Härte der Beschichtung und ausgezeichnete Verschleißfestigkeit verlängern die Standzeit beachtlich.
- ▶ Ultrafeiner Film auf YG-1 Diamant - beschichteten Hartmetall Schaftfräser gewährleisten eine glatte und ausgezeichnete Oberflächengüte.
- ▶ Hohe Leistungsfähigkeit bei Graphit, Aluminium ohne Silicon, Bakelit, Plastik, Holz, Messing, etc. YG-1 Diamant - beschichtete Hartmetall Schaftfräser zeigen gute Ergebnisse beim Bearbeiten von NE - Metallen und Nichtmetall - Werkstoffen.



Unit : mm

EDP No.	Radius of Ball Nose R (±0.01)	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
E1881020	R1.0	2.0	6	3	5	60	1.9
E1881025	R1.25	2.5	6	4	6	60	2.4
E1881030	R1.5	3.0	6	4.5	6.5	60	2.8
E1881035	R1.75	3.5	6	5	7	65	3.2
E1881040	R2.0	4.0	6	6	8	65	3.7
E1881050	R2.5	5.0	6	7.5	10	65	4.6
E1881060	R3.0	6.0	6	9	12	75	5.6
E1881080	R4.0	8.0	8	12	25	75	7.4
E1881100	R5.0	10.0	10	15	30	80	9.4
E1881120	R6.0	12.0	12	18	36	90	11.4

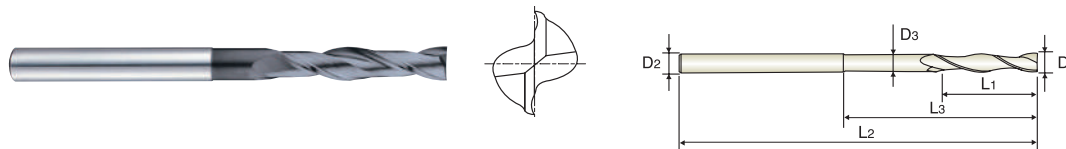
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

CARBIDE, 2 FLUTE LONG LENGTH VOLLHARTMETALL, 2 SCHNEIDEN LANG

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Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
EIB0400502040	0.5	3	1	2	40	0.45
EIB0400603040	0.6	3	2	3	40	0.55
EIB0400704040	0.7	3	2	4	40	0.65
EIB0400805040	0.8	3	2	5	40	0.75
EIB0400906040	0.9	3	2	6	40	0.85
EIB0401008075	1.0	4	3	8	75	0.95
EIB0401510075	1.5	4	4	10	75	1.45
EIB0402016100	2.0	4	6	16	100	1.9
EIB0402520100	2.5	4	8	20	100	2.4
EIB0403030100	3.0	6	8	30	100	2.8
EIB0403535100	3.5	6	10	35	100	3.2
EIB0404040100	4.0	6	20	40	100	3.7
EIB0405050125	5.0	6	25	50	125	4.6
EIB0406060140	6.0	6	30	60	140	5.6
EIB0407000140	7.0	6	35	-	140	-
EIB0408080150	8.0	8	40	80	150	7.4
EIB0409000150	9.0	8	45	-	150	-
EIB0410080150	10.0	10	50	80	150	9.4
EIB0411000150	11.0	10	50	-	150	-
EIB0412080150	12.0	12	55	80	150	11.4

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

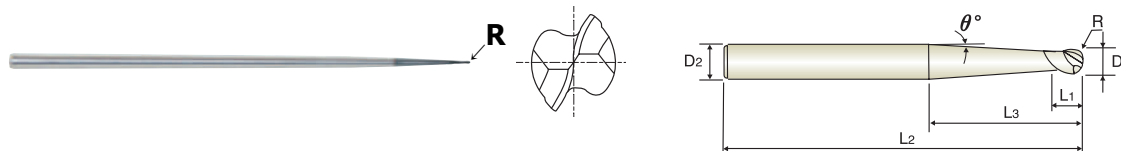


PLAIN SHANK
GLATTER ZYLINDERSCHAFT

CARBIDE, 2 FLUTE BALL NOSE with TAPER NECK VOLLHARTMETALL, 2 SCHNEIDEN STIRNRADIUS mit KONISCH ABGESETZTEM SCHAFTTEIL

- ▶ Higher hardness of film and excellent wear-resistance increase the tool life surprisingly.
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- ▶ Höhere Härte der Beschichtung und ausgezeichnete Verschleißfestigkeit verlängern die Standzeit beachtlich.
- ▶ Ultrafeiner Film auf YG-1 Diamant - beschichteten Hartmetall Schaftfräser gewährleisten eine glatte und ausgezeichnete Oberflächengüte.
- ▶ Hohe Leistungsfähigkeit bei Graphit, Aluminium ohne Silicon, Bakelit, Plastik, Holz, Messing, etc. YG-1 Diamant - beschichtete Hartmetall Schaftfräser zeigen gute Ergebnisse beim Bearbeiten von NE - Metallen und Nichtmetall - Werkstoffen.



Unit : mm

EDP No.	Radius of Ball Nose	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Taper Angle
	R (±0.01)	D1	D2	L1	L3	L2	θ°
EIB87010	R0.5	1.0	3	2	-	40	8° 30'
EIB87901	R0.5	1.0	3	2	30	60	2°
EIB87902	R0.5	1.0	3	2	70	100	1°
EIB87015	R0.75	1.5	3	3	-	40	6° 15'
EIB87903	R0.75	1.5	3	3	30	60	1° 30'
EIB87904	R0.75	1.5	3	3	58	100	45'
EIB87020	R1.0	2.0	3	4	-	40	4° 15'
EIB87905	R1.0	2.0	3	4	30	60	1°
EIB87906	R1.0	2.0	4	4	70	100	1°

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.02	h6

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

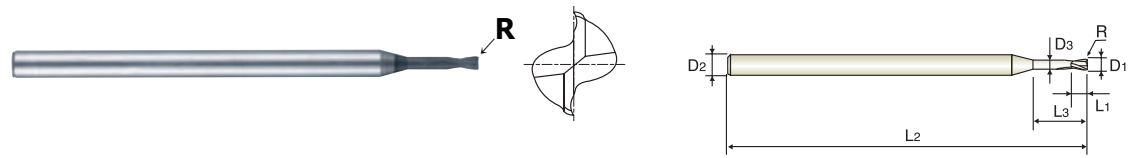
◎ : Excellent ○ : Good

CARBIDE, 2 FLUTE MINIATURE CORNER RADIUS

VOLLHARTMETALL, 2 SCHNEIDEN MINI ECKENRADIUS

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Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R	D1	D2	L1	L3	L2	D3
EI99600200000	-	0.2	3	0.3	-	40	-
EI99600300000	-	0.3	3	0.5	-	40	-
EI99600400000	-	0.4	3	0.6	-	40	-
EI99600505025	RO.05	0.5	3	0.7	2.5	40	0.45
EI99600505040	RO.05	0.5	3	0.7	4	40	0.45
EI996006	RO.05	0.6	3	0.9	3	40	0.55
EI99600605050	RO.05	0.6	3	0.9	5	40	0.55
EI996008	RO.05	0.8	3	1.2	4	40	0.75
EI99600805070	RO.05	0.8	3	1.2	7	40	0.75
EI996010	RO.1	1.0	3	1.5	5	40	0.95
EI996904	RO.1	1.0	3	1.5	8.5	40	0.95
EI99601010120	RO.1	1.0	3	1.5	12	40	0.95
EI996012	RO.1	1.2	3	1.8	6	50	1.15
EI99601210100	RO.1	1.2	3	1.8	10	50	1.15
EI996015	RO.15	1.5	3	2.2	7.5	50	1.4
EI996907	RO.15	1.5	3	2.2	12	50	1.4
EI99601515180	RO.15	1.5	3	2.2	18	50	1.4
EI996020	RO.15	2.0	3	2.2	10	60	1.9
EI996909	RO.15	2.0	3	2.2	16	60	1.9
EI99602015250	RO.15	2.0	3	2.2	25	60	1.9
EI99603020100	RO.2	3.0	4	3	10	65	2.9
EI99603020150	RO.2	3.0	4	3	15	65	2.9
EI99603020200	RO.2	3.0	4	3	20	65	2.9
EI99603020250	RO.2	3.0	4	3	25	75	2.9
EI99603020300	RO.2	3.0	4	3	30	75	2.9
EI99604020200	RO.2	4.0	6	4	20	65	3.9
EI99604020300	RO.2	4.0	6	4	30	75	3.9
EI99604020400	RO.2	4.0	6	4	40	90	3.9

◎ : Excellent ○ : Good

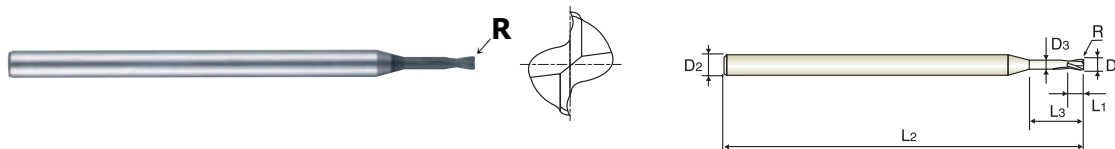
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70							
							◎		○			



PLAIN SHANK
GLATTER ZYLINDERSCHAFT

CARBIDE, 2 FLUTE MINIATURE CORNER RADIUS VOLLHARTMETALL, 2 SCHNEIDEN MINI ECKENRADIUS

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Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R	D1	D2	L1	L3	L2	D3
EI99605030200	RO.3	5.0	6	5	20	75	4.9
EI99605030300	RO.3	5.0	6	5	30	75	4.9
EI99605030400	RO.3	5.0	6	5	40	90	4.9
EI99605030500	RO.3	5.0	6	5	50	90	4.9
EI99606030300	RO.3	6.0	6	6	30	75	5.9
EI99606030400	RO.3	6.0	6	6	40	90	5.9
EI99606030500	RO.3	6.0	6	6	50	90	5.9
EI99606030600	RO.3	6.0	6	6	60	100	5.9

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.02	h6

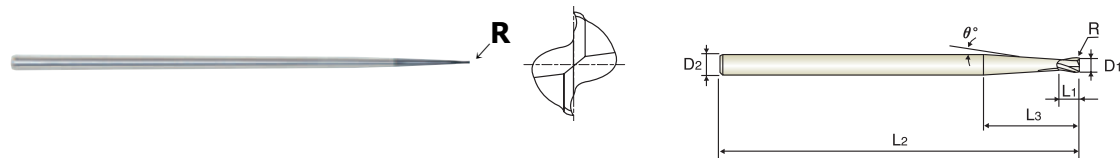
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

◎ : Excellent ○ : Good

CARBIDE, 2 FLUTE CORNER RADIUS with TAPER NECK

VOLLHARTMETALL, 2 SCHEIDEN ECKENRADIUS mit KONISCH ABGESETZTEM SCHAFTTEIL

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MG HM 2 30° PLAIN P.773

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Taper Angle θ°
EIB86010	RO.1	1.0	3	2	30	60	2°
EIB86901	RO.1	1.0	3	2	70	100	1°
EIB86015	RO.15	1.5	3	3	30	60	1°30'
EIB86902	RO.15	1.5	3	3	50	100	1°
EIB86020	RO.15	2.0	3	4	30	60	1°
EIB86903	RO.15	2.0	4	4	70	100	1°

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.02	h6

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

- CARBIDE
- HSS
- CBN END MILLS
- i-Xmill END MILLS
- X5070 END MILLS
- X-POWER END MILLS
- JET-POWER END MILLS
- V7 Mill INOX END MILLS
- V7 Mill STEEL END MILLS
- ALU-POWER END MILLS
- D-POWER END MILLS
- K-2 CARBIDE END MILLS
- GENERAL CARBIDE END MILLS
- TANK-POWER END MILLS
- GENERAL HSS END MILLS
- MILLING CUTTERS
- TECHNICAL DATA

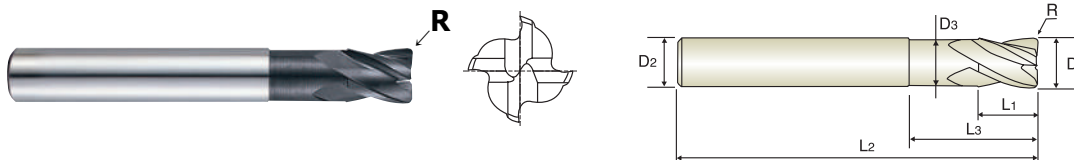


PLAIN SHANK
GLATTER ZYLINDERSCHAFT

CARBIDE, 4 FLUTE CORNER RADIUS VOLLHARTMETALL, 4 SCHNEIDEN ECKENRADIUS

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Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
EIB88060	RO.5	6.0	6	10	40	80	5.9
EIB88080	RO.5	8.0	8	10	40	80	7.8
EIB88901	R1.0	8.0	8	10	60	100	7.8
EIB88100	RO.5	10.0	10	25	-	75	-
EIB88902	RO.5	10.0	10	12	40	80	9.8
EIB88903	R1.0	10.0	10	12	40	80	9.8
EIB88904	RO.5	10.0	10	12	80	125	9.8
EIB88120	RO.5	12.0	12	25	-	80	-
EIB88905	RO.5	12.0	12	15	40	80	11.8
EIB88906	R1.0	12.0	12	15	40	80	11.8
EIB88907	R1.0	12.0	12	15	80	125	11.8

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

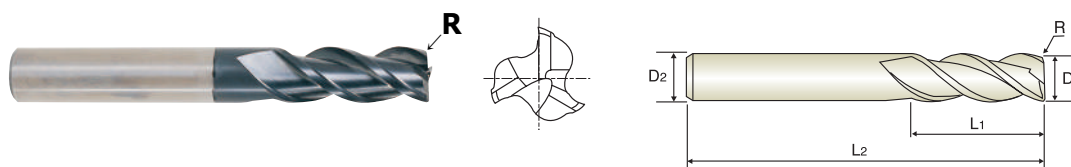
◎ : Excellent ○ : Good

CARBIDE, 3 FLUTE 40° HELIX SHORT LENGTH CORNER RADIUS

VOLLHARTMETALL, 3 SCHNEIDEN 40° RECHTSSPIRALE KURZ ECKENRADIUS

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Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	R	D1	D2	L1	L2
EIA13020	RO.15	2.0	3	6	40
EIA13030	RO.15	3.0	3	12	40
EIA13040	RO.2	4.0	4	14	50
EIA13050	RO.3	5.0	5	16	50
EIA13060	RO.3	6.0	6	20	65
EIA13080	RO.5	8.0	8	20	65
EIA13100	RO.5	10.0	10	25	75
EIA13120	RO.5	12.0	12	25	75

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

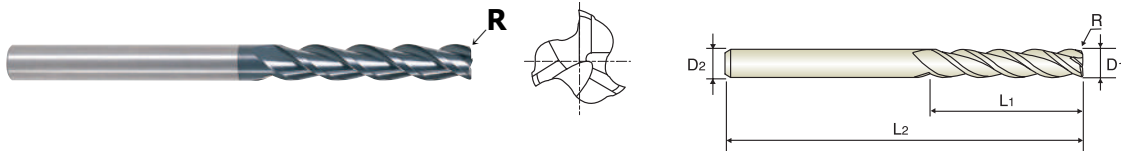
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			



PLAIN SHANK
GLATTER ZYLINDERSCHAFT

CARBIDE, 3 FLUTE 40° HELIX LONG LENGTH CORNER RADIUS VOLLHARTMETALL, 3 SCHNEIDN 40° RECHTSSPIRALE LANG ECKENRADIUS

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- ▶ Ultra fine film of YG-1's diamond coated carbide end mills ensure the smooth and excellent surface on work materials.
- ▶ High performance on graphite, wrought aluminum, bakelite, plastics, wood, brass etc. YG-1's diamond coated carbide end mills have good result for the machining of non-ferrous metals and non-metallic materials.
- ▶ Höhere Härte der Beschichtung und ausgezeichnete Verschleißfestigkeit verlängern die Standzeit beachtlich.
- ▶ Ultrafeiner Film auf YG-1 Diamant - beschichteten Hartmetall Schaffräser gewährleisten eine glatte und ausgezeichnete Oberflächengüte.
- ▶ Hohe Leistungsfähigkeit bei Graphit, Aluminium ohne Silicon, Bakelit, Plastik, Holz, Messing, etc. YG-1 Diamant - beschichtete Hartmetall Schaffräser zeigen gute Ergebnisse beim Bearbeiten von NE - Metallen und Nichtmetall - Werkstoffen.



Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	R	D1	D2	L1	L2
EIA14020	RO.15	2.0	3	9	60
EIA14030	RO.15	3.0	3	30	60
EIA14040	RO.2	4.0	4	30	60
EIA14050	RO.3	5.0	5	35	70
EIA14060	RO.3	6.0	6	40	100
EIA14080	RO.5	8.0	8	40	100
EIA14100	RO.5	10.0	10	40	100
EIA14120	RO.5	12.0	12	45	100

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
							◎		○			

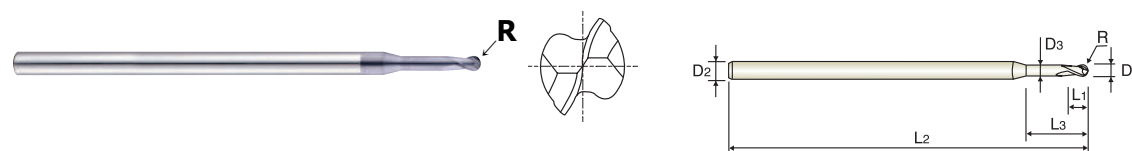
◎ : Excellent ○ : Good

CARBIDE, 2 FLUTE MINIATURE BALL NOSE

VOLLHARTMETALL, 2 SCHNEIDEN MINI STIRNRADIUS

- Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.

- Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.



MG HM 2 30° ±0.01 PLAIN P.774

Unit : mm

EDP No.	Radius of Ball Nose R (±0.01)	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
GEB46002000040	RO.1	0.2	3	0.2	-	40	-
GEB46003000040	RO.15	0.3	3	0.3	-	40	-
GEB46004000040	RO.2	0.4	3	0.4	-	40	-
GEB46005025040	RO.25	0.5	3	0.5	2.5	40	0.45
GEB46006030040	RO.3	0.6	3	0.6	3	40	0.55
GEB46006050040	RO.3	0.6	3	0.6	5	40	0.55
GEB46008040040	RO.4	0.8	3	0.8	4	40	0.75
GEB46008070040	RO.4	0.8	3	0.8	7	40	0.75
GEB46010050040	RO.5	1.0	3	1	5	40	0.95
GEB46010085040	RO.5	1.0	3	1	8.5	40	0.95
GEB46010120040	RO.5	1.0	3	1	12	40	0.95
GEB46012060050	RO.6	1.2	3	1.2	6	50	1.15
GEB46012100050	RO.6	1.2	3	1.2	10	50	1.15
GEB46015075050	RO.75	1.5	3	1.5	7.5	50	1.4
GEB46015120050	RO.75	1.5	3	1.5	12	50	1.4
GEB46015180050	RO.75	1.5	3	1.5	18	50	1.4
GEB46020100060	R1.0	2.0	3	2.2	10	60	1.9
GEB46020160060	R1.0	2.0	3	2.2	16	60	1.9
GEB46020250060	R1.0	2.0	3	2.2	25	60	1.9
GEB46030100065	R1.5	3.0	4	3	10	65	2.9
GEB46030150065	R1.5	3.0	4	3	15	65	2.9
GEB46030200065	R1.5	3.0	4	3	20	65	2.9
GEB46030250075	R1.5	3.0	4	3	25	75	2.9
GEB46030300075	R1.5	3.0	4	3	30	75	2.9
GEB46040200065	R2.0	4.0	6	4	20	65	3.9
GEB46040300075	R2.0	4.0	6	4	30	75	3.9
GEB46040400090	R2.0	4.0	6	4	40	90	3.9

◎ : Excellent ○ : Good

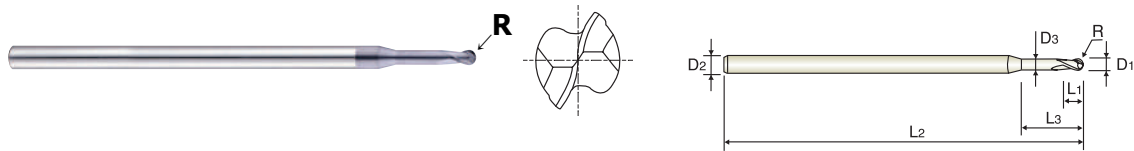
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70							
						◎	○		◎			



CARBIDE, 2 FLUTE MINIATURE BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN MINI STIRNRADIUS

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.



Unit : mm

EDP No.	Radius of Ball Nose	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R (±0.01)	D1	D2	L1	L3	L2	D3
GEB46050200065	R2.5	5.0	6	5	20	65	4.9
GEB46050300075	R2.5	5.0	6	5	30	75	4.9
GEB46050400090	R2.5	5.0	6	5	40	90	4.9
GEB46050500090	R2.5	5.0	6	5	50	90	4.9
GEB46060300075	R3.0	6.0	6	6	30	75	5.9
GEB46060400090	R3.0	6.0	6	6	40	90	5.9
GEB46060500090	R3.0	6.0	6	6	50	90	5.9
GEB46060600100	R3.0	6.0	6	6	60	100	5.9

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.02	h6

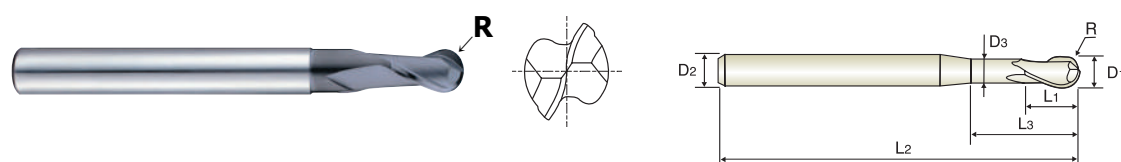
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎	○		◎			

◎ : Excellent ○ : Good

CARBIDE, 2 FLUTE SHORT LENGTH BALL NOSE
VOLLHARTMETALL, 2 SCHNEIDEN KURZ STIRNRADIUS

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.



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Unit : mm

EDP No.	Radius of Ball Nose R (±0.01)	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
GE944020	R1.0	2.0	6	3	5	60	1.9
GE944025	R1.25	2.5	6	4	6	60	2.4
GE944030	R1.5	3.0	6	4.5	6.5	60	2.8
GE944035	R1.75	3.5	6	5	7	65	3.2
GE944040	R2.0	4.0	6	6	8	65	3.7
GE944050	R2.5	5.0	6	7.5	10	65	4.6
GE944060	R3.0	6.0	6	9	12	75	5.6
GE944080	R4.0	8.0	8	12	25	75	7.4
GE944100	R5.0	10.0	10	15	30	80	9.4
GE944120	R6.0	12.0	12	18	36	90	11.4

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

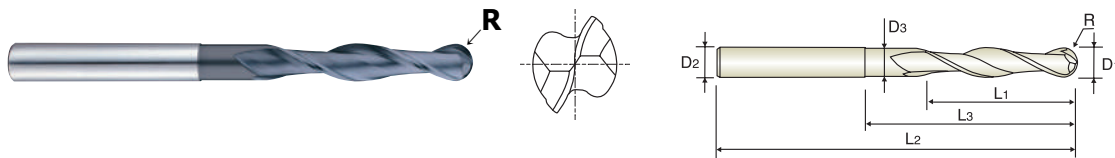
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70							
						◎	○		◎			



CARBIDE, 2 FLUTE LONG LENGTH BALL NOSE VOLLHARTMETALL, 2 SCHNEIDEN LANG STIRNRADIUS

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.



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Unit : mm

EDP No.	Radius of Ball Nose	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R (±0.01)	D1	D2	L1	L3	L2	D3
GE945020	R1.0	2.0	4	10	20	80	1.95
GE945030	R1.5	3.0	4	15	25	80	2.9
GE945040	R2.0	4.0	4	20	30	80	3.9
GE945050	R2.5	5.0	6	30	50	100	4.9
GE945060	R3.0	6.0	6	30	50	100	5.5
GE945070	R3.5	7.0	6	30	-	100	-
GE945080	R4.0	8.0	8	40	60	110	7.5
GE945090	R4.5	9.0	8	40	-	110	-
GE945100	R5.0	10.0	10	50	70	120	9.5
GE945120	R6.0	12.0	12	55	75	130	11.5

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎	○		◎			

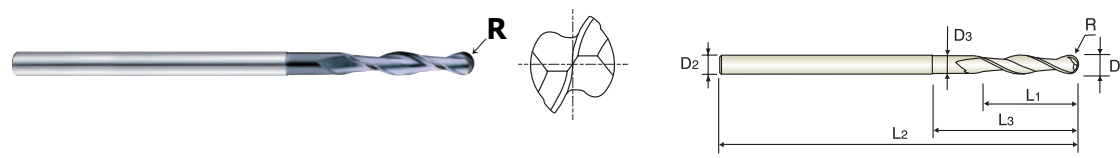
◎ : Excellent ○ : Good

CARBIDE, 2 FLUTE LONG REACH BALL NOSE

VOLLHARTMETALL, 2 SCHNEIDEN GROÙE REICHWEITE STIRNRADIUS

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.



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Unit : mm

EDP No.	Radius of Ball Nose R (±0.01)	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Neck Diameter D3
GE946020	R1.0	2.0	4	10	20	100	1.95
GE946030	R1.5	3.0	4	15	25	100	2.9
GE946040	R2.0	4.0	4	20	30	100	3.9
GE946050	R2.5	5.0	6	30	50	120	4.9
GE946060	R3.0	6.0	6	30	50	150	5.5
GE946070	R3.5	7.0	6	30	-	150	-
GE946080	R4.0	8.0	8	40	60	150	7.5
GE946090	R4.5	9.0	8	40	-	150	-
GE946100	R5.0	10.0	10	50	70	180	9.5
GE946120	R6.0	12.0	12	55	75	200	11.5

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

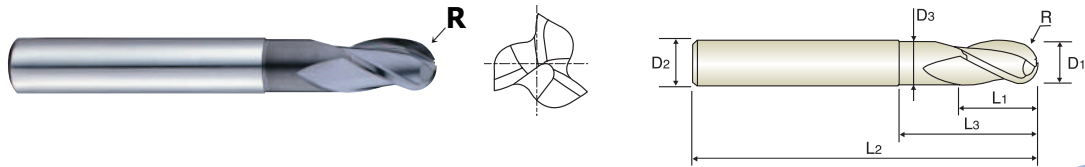
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70							
						◎	○		◎			



CARBIDE, 3 FLUTE SHORT LENGTH BALL NOSE VOLLHARTMETALL, 3 SCHNEIDEN KURZ STIRNRADIUS

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.



Unit : mm

EDP No.	Radius of Ball Nose	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R (±0.01)	D1	D2	L1	L3	L2	D3
GE947020	R1.0	2.0	6	3	5	60	1.9
GE947025	R1.25	2.5	6	4	6	60	2.4
GE947030	R1.5	3.0	6	4.5	6.5	60	2.8
GE947035	R1.75	3.5	6	5	7	65	3.2
GE947040	R2.0	4.0	6	6	8	65	3.7
GE947050	R2.5	5.0	6	7.5	10	65	4.6
GE947060	R3.0	6.0	6	9	12	75	5.6
GE947080	R4.0	8.0	8	12	25	75	7.4
GE947100	R5.0	10.0	10	15	30	80	9.4
GE947120	R6.0	12.0	12	18	36	90	11.4

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎	○		◎			

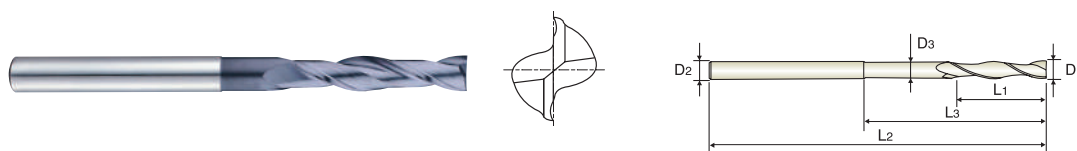
◎ : Excellent ○ : Good

CARBIDE, 2 FLUTE LONG LENGTH

VOLLHARTMETALL, 2 SCHNEIDEN LANG

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.



Unit : mm

EDP No.	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	D1	D2	L1	L3	L2	D3
GE927005	0.5	3	1	2	40	0.45
GE927006	0.6	3	2	3	40	0.55
GE927007	0.7	3	2	4	40	0.65
GE927008	0.8	3	2	5	40	0.75
GE927009	0.9	3	2	6	40	0.85
GE927010	1.0	4	3	8	75	0.95
GE927015	1.5	4	4	10	75	1.45
GE927020	2.0	4	6	16	100	1.9
GE927025	2.5	4	8	20	100	2.4
GE927030	3.0	6	8	30	100	2.8
GE927035	3.5	6	10	35	100	3.2
GE927040	4.0	6	20	40	100	3.7
GE927050	5.0	6	25	50	125	4.6
GE927060	6.0	6	30	60	140	5.6
GE927070	7.0	6	35	-	140	-
GE927080	8.0	8	40	80	150	7.4
GE927090	9.0	8	45	-	150	-
GE927100	10.0	10	50	80	150	9.4
GE927110	11.0	10	50	-	150	-
GE927120	12.0	12	55	80	150	11.4

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

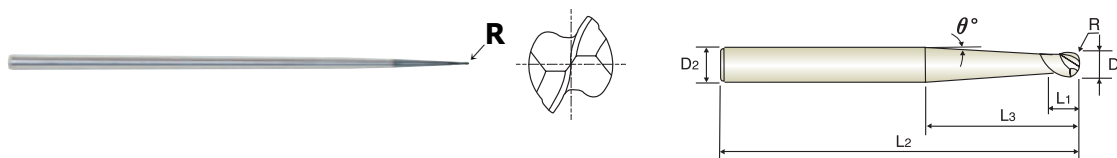
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70							
						◎	○		◎			



CARBIDE, 2 FLUTE BALL NOSE with TAPER NECK VOLLHARTMETALL, 2 SCHNEIDEN STIRNRADIUS mit KONISCH ABGESETZTEM SCHAFTTEIL

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.



Unit : mm

EDP No.	Radius of Ball Nose	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Taper Angle
	R (±0.01)	D1	D2	L1	L3	L2	θ°
GEB02010000040	RO.5	1.0	3	2	-	40	8° 30'
GEB02010300060	RO.5	1.0	3	2	30	60	2°
GEB02010700100	RO.5	1.0	3	2	70	100	1°
GEB02015000040	RO.75	1.5	3	3	-	40	6° 15'
GEB02015300060	RO.75	1.5	3	3	30	60	1° 30'
GEB02015580100	RO.75	1.5	3	3	58	100	45'
GEB02020000040	R1.0	2.0	3	4	-	40	4° 15'
GEB02020300060	R1.0	2.0	3	4	30	60	1°
GEB02020700100	R1.0	2.0	4	4	70	100	1°

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.015	h6

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎	○		◎			

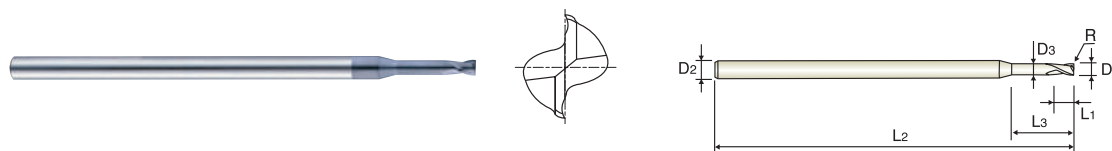
◎ : Excellent ○ : Good

CARBIDE, 2 FLUTE MINIATURE CORNER RADIUS

VOLLHARTMETALL, 2 SCHNEIDEN MINI ECKENRADIUS

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.



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Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R	D1	D2	L1	L3	L2	D3
GEB4500200000	–	0.2	3	0.3	–	40	–
GEB4500300000	–	0.3	3	0.45	–	40	–
GEB4500400000	–	0.4	3	0.6	–	40	–
GEB4500505025	RO.05	0.5	3	0.7	2.5	40	0.45
GEB4500505040	RO.05	0.5	3	0.7	4	40	0.45
GEB4500605030	RO.05	0.6	3	0.9	3	40	0.55
GEB4500605050	RO.05	0.6	3	0.9	5	40	0.55
GEB4500805040	RO.05	0.8	3	1.2	4	40	0.75
GEB4500805070	RO.05	0.8	3	1.2	7	40	0.75
GEB4501010050	RO.1	1.0	3	1.5	5	40	0.95
GEB4501010085	RO.1	1.0	3	1.5	8.5	40	0.95
GEB4501010120	RO.1	1.0	3	1.5	12	40	0.95
GEB4501210060	RO.1	1.2	3	1.8	6	50	1.15
GEB4501210100	RO.1	1.2	3	1.8	10	50	1.15
GEB4501515075	RO.15	1.5	3	2.2	7.5	50	1.4
GEB4501515120	RO.15	1.5	3	2.2	12	50	1.4
GEB4501515180	RO.15	1.5	3	2.2	18	50	1.4
GEB4502015100	RO.15	2.0	3	2.2	10	60	1.9
GEB4502015160	RO.15	2.0	3	2.2	16	60	1.9
GEB4502015250	RO.15	2.0	3	2.2	25	60	1.9
GEB4503020100	RO.2	3.0	4	3	10	65	2.9
GEB4503020150	RO.2	3.0	4	3	15	65	2.9
GEB4503020200	RO.2	3.0	4	3	20	65	2.9
GEB4503020250	RO.2	3.0	4	3	25	75	2.9
GEB4503020300	RO.2	3.0	4	3	30	75	2.9
GEB4504020200	RO.2	4.0	6	4	20	65	3.9
GEB4504020300	RO.2	4.0	6	4	30	75	3.9
GEB4504020400	RO.2	4.0	6	4	40	90	3.9

◎ : Excellent ○ : Good

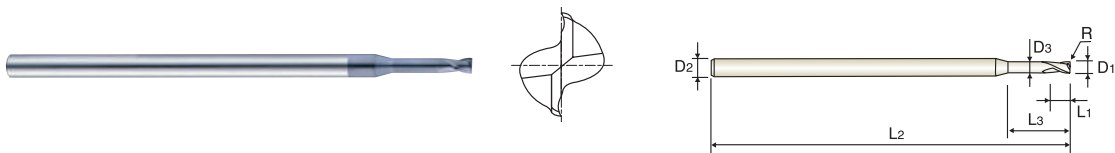
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225-325	HRC30-40	HRC40-45	HRC45-55	HRC55-70							
						◎	○		◎			



CARBIDE, 2 FLUTE MINIATURE CORNER RADIUS VOLLHARTMETALL, 2 SCHNEIDEN MINI ECKENRADIUS

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.



Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R	D1	D2	L1	L3	L2	D3
GEB4505030200	RO.3	5.0	6	5	20	75	4.9
GEB4505030300	RO.3	5.0	6	5	30	75	4.9
GEB4505030400	RO.3	5.0	6	5	40	90	4.9
GEB4505030500	RO.3	5.0	6	5	50	90	4.9
GEB4506030300	RO.3	6.0	6	6	30	75	5.9
GEB4506030400	RO.3	6.0	6	6	40	90	5.9
GEB4506030500	RO.3	6.0	6	6	50	90	5.9
GEB4506030600	RO.3	6.0	6	6	60	100	5.9

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.02	h6

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎	○		◎			

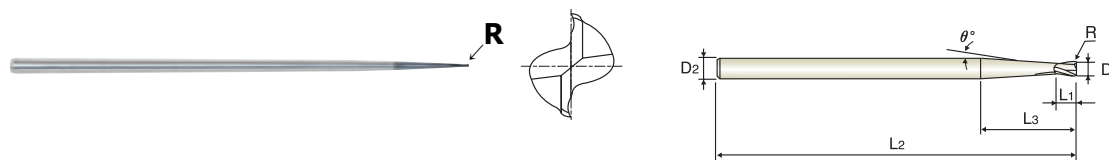
◎ : Excellent ○ : Good

CARBIDE, 2 FLUTE CORNER RADIUS with TAPER NECK

VOLLHARTMETALL, 2 SCHEIDEN ECKENRADIUS mit KONISCH ABGESETZTEM SCHAFTTEIL

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.
- ▶ Corner protection against chipping.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.
- ▶ Eckenschutz gegen Abbröckelung



Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Taper Angle
	R	D1	D2	L1	L3	L2	θ°
GEB01010300060	RO.1	1.0	3	2	30	60	2°
GEB01010700100	RO.1	1.0	3	2	70	100	1°
GEB01015300060	RO.15	1.5	3	3	30	60	1°30'
GEB01015500100	RO.15	1.5	3	3	50	100	1°
GEB01020300060	RO.15	2.0	3	4	30	60	1°
GEB01020700100	RO.15	2.0	4	4	70	100	1°

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.015	h6

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎	○		◎			

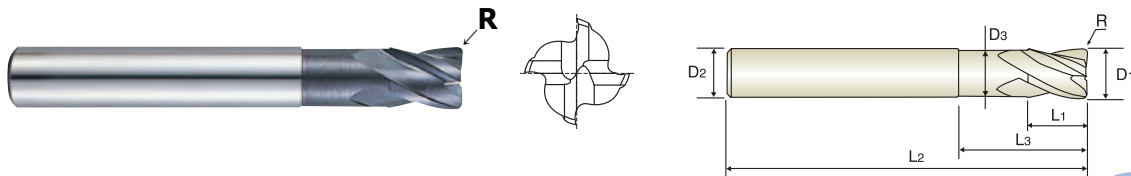
- CARBIDE
- HSS
- CBN END MILLS
- i-Xmill END MILLS
- X5070 END MILLS
- X-POWER END MILLS
- JET-POWER END MILLS
- V7 Mill INOX END MILLS
- V7 Mill STEEL END MILLS
- ALU-POWER END MILLS
- D-POWER END MILLS
- K-2 CARBIDE END MILLS
- GENERAL CARBIDE END MILLS
- TANK-POWER END MILLS
- GENERAL HSS END MILLS
- MILLING CUTTERS
- TECHNICAL DATA



CARBIDE, 4 FLUTE CORNER RADIUS VOLLHARTMETALL, 4 SCHNEIDEN ECKENRADIUS

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.
- ▶ Corner radius against chipping.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.
- ▶ Eckenradius gegen Abbröckelung



Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R	D1	D2	L1	L3	L2	D3
GEB0306005040	RO.5	6.0	6	10	40	80	5.9
GEB0308005040	RO.5	8.0	8	10	40	80	7.8
GEB0308010060	R1.0	8.0	8	10	60	100	7.8
GEB0310005000	RO.5	10.0	10	25	-	75	-
GEB0310005040	RO.5	10.0	10	12	40	80	9.8
GEB0310010040	R1.0	10.0	10	12	40	80	9.8
GEB0310005080	RO.5	10.0	10	12	80	125	9.8
GEB0312005000	RO.5	12.0	12	25	-	80	-
GEB0312005040	RO.5	12.0	12	15	40	80	11.8
GEB0312010040	R1.0	12.0	12	15	40	80	11.8
GEB0312010080	R1.0	12.0	12	15	80	125	11.8

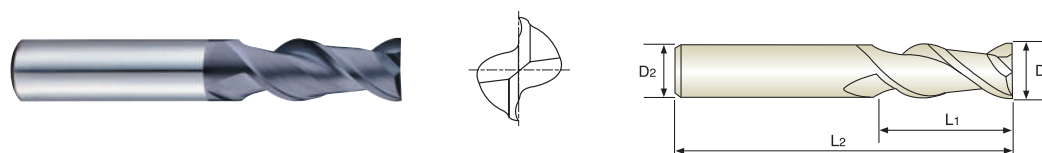
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎	○		◎			

◎ : Excellent ○ : Good

CARBIDE, 2 FLUTE 45° HELIX
VOLLHARTMETALL, 2 SCHNEIDEN 45° RECHTSSPIRALE

- ▶ Designed for the machining aluminum and its alloys, copper, plastic etc.
 - ▶ Maximum-stock removal, chip ejection, stability.
 - ▶ Corner protection against chipping.
- ▶ Entwickelt zum Zerspanen von Aluminium und Aluminium Legierungen, Kupfer, Plastik...usw.
 - ▶ Maximale Spanentfernung, Stabilität
 - ▶ Eckenschutz gegen Abbröckelung



MG HM
2
45°
PLAIN
P.777

Unit : mm

EDP No.	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	D1	D2	L1	L2
GE926010	1.0	4	3	40
GE926015	1.5	4	4	40
GE926020	2.0	4	6	40
GE926025	2.5	4	8	40
GE926030	3.0	6	8	45
GE926035	3.5	6	10	45
GE926040	4.0	6	11	45
GE926045	4.5	6	11	50
GE926050	5.0	6	13	50
GE926055	5.5	6	13	50
GE926060	6.0	6	13	50
GE926070	7.0	8	16	60
GE926080	8.0	8	19	60
GE926090	9.0	10	19	70
GE926100	10.0	10	22	70
GE926110	11.0	12	22	75
GE926120	12.0	12	26	75
GE926160	16.0	16	32	90
GE926200	20.0	20	38	100

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

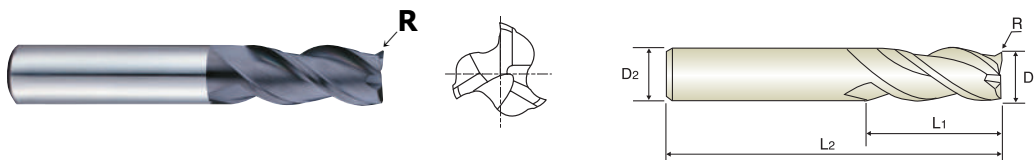
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRC30~40	HRc40~45	HRc45~55	HRC55~70							
						◎	○		◎			



CARBIDE, 3 FLUTE 40° HELIX SHORT LENGTH CORNER RADIUS VOLLHARTMETALL, 3 SCHMEIDEN 40° RECHTSSPIRALE KURZ ECKENRADIUS

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.
- ▶ Corner radius against chipping.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.
- ▶ Eckenradius gegen Abbröckelung



Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	R	D1	D2	L1	L2
GE928020	RO.15	2.0	3	6	40
GE928030	RO.15	3.0	3	12	40
GE928040	RO.2	4.0	4	14	50
GE928050	RO.3	5.0	5	16	50
GE928060	RO.3	6.0	6	20	65
GE928080	RO.5	8.0	8	20	65
GE928100	RO.5	10.0	10	25	75
GE928120	RO.5	12.0	12	25	75

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						○	○		○			

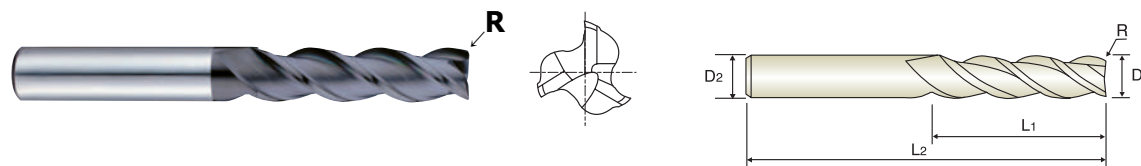
◎ : Excellent ○ : Good

CARBIDE, 3 FLUTE 40° HELIX LONG LENGTH CORNER RADIUS

VOLLHARTMETALL, 3 SCHMEIDEN 40° RECHTSSPIRALE LANG ECKENRADIUS

- ▶ Designed for the machining reinforced plastic, high silicon aluminum alloy, Copper Alloy.
- ▶ YG-1's newly developed diamond film coating allows a good result for the machining non-ferrous metals and non-metallic materials.
- ▶ Corner radius against chipping.

- ▶ Zum Zerspanen von verstärkten Verbundmaterialien, Silikon-Aluminium Legierung, Kupfer-Legierungen.
- ▶ Die neuentwickelte Diamantfilmbeschichtung ermöglicht hervorragende Zerspanergebnisse von Nichteisenmetallen und nichtmetallischen Materialien.
- ▶ Eckenradius gegen Abbröckelung



Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	R	D1	D2	L1	L2
GE929020	RO.15	2.0	3	9	60
GE929030	RO.15	3.0	3	30	60
GE929040	RO.2	4.0	4	30	60
GE929050	RO.3	5.0	5	35	70
GE929060	RO.3	6.0	6	40	100
GE929080	RO.5	8.0	8	40	100
GE929100	RO.5	10.0	10	40	100
GE929120	RO.5	12.0	12	45	100

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel
-HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70							
						◎	○		◎			



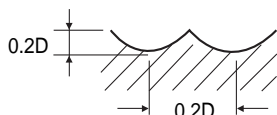
RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

CARBIDE, 2 FLUTE MINIATURE BALL NOSE

VOLLHARTMETALL, 2 SCHNEIDEN MINI STIRNRADIUS

EI997, EIB93, EIB87 SERIES

MATERIAL	GRAPHITE	
DIAMETER	RPM	FEED
R0.2 × 0.4	40000	600
R0.3 × 0.6	40000	800
R0.4 × 0.8	40000	960
R0.5 × 1.0	40000	1200
R0.6 × 1.2	40000	1440
R0.75 × 1.5	40000	1600
R1.0 × 2.0	40000	2000
R1.5 × 3.0	27000	2200
R2.0 × 4.0	20000	2900
R2.5 × 5.0	16000	2900
R3.0 × 6.0	14000	2900



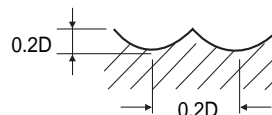
RPM = rev./min.
FEED = mm/min.

CARBIDE, 2 FLUTE BALL NOSE

VOLLHARTMETALL, 2 SCHNEIDEN STIRNRADIUS

EI880, EI451, EI450 SERIES

MATERIAL	GRAPHITE	
DIAMETER	RPM	FEED
R1.0 × 2.0	16000	800
R1.25 × 2.5	16000	1120
R1.5 × 3.0	16000	1450
R1.75 × 3.5	16000	1750
R2.0 × 4.0	16000	2100
R2.5 × 5.0	15500	2550
R3.0 × 6.0	15000	2950
R4.0 × 8.0	13000	3000
R5.0 × 10.0	11500	3050
R6.0 × 12.0	10500	3150



* The FEED, in long & long reach types, should be reduced by around 50%

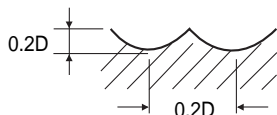
RPM = rev./min.
FEED = mm/min.

CARBIDE, 3 FLUTE BALL NOSE

VOLLHARTMETALL, 3 SCHNEIDEN STIRNRADIUS

EI881 SERIES

MATERIAL	GRAPHITE	
DIAMETER	RPM	FEED
R1.0 × 2.0	16000	1200
R1.25 × 2.5	16000	1700
R1.5 × 3.0	16000	2150
R1.75 × 3.5	16000	2650
R2.0 × 4.0	16000	3100
R2.5 × 5.0	15500	3800
R3.0 × 6.0	15000	4450
R4.0 × 8.0	13000	4500
R5.0 × 10.0	11500	4600
R6.0 × 12.0	10500	4750



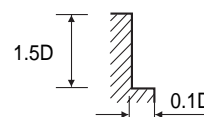
RPM = rev./min.
FEED = mm/min.

CARBIDE, 2 FLUTE LONG LENGTH

VOLLHARTMETALL, 2 SCHNEIDEN LANG

EIB04 SERIES

MATERIAL	GRAPHITE	
DIAMETER	RPM	FEED
0.4	40000	200
0.6	40000	350
0.8	40000	550
1.0	40000	700
1.5	40000	800
2.0	25000	800
3.0	20000	800
4.0	18000	950
5.0	14000	1200
6.0	11000	1400
8.0	8000	1300
10.0	6500	1200
12.0	5500	1200



* The FEED, in long & long reach types, should be reduced by around 50%

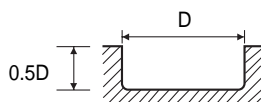
RPM = rev./min.
FEED = mm/min.

CARBIDE, 2 FLUTE MINIATURE CORNER RADIUS

VOLLHARTMETALL, 2 SCHNEIDEN MINI ECKENRADIUS

EI996, EIB86 SERIES

MATERIAL	GRAPHITE	
	DIAMETER	RPM
0.4	40000	640
0.6	40000	640
0.8	40000	800
1.0	40000	960
1.2	40000	1200
1.5	40000	1440
2.0	40000	1600
3.0	27000	1900
4.0	20000	2300
5.0	16000	2300
6.0	14000	2300



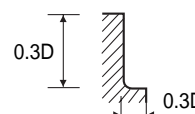
RPM = rev./min.
FEED = mm/min.

CARBIDE, 4 FLUTE CORNER RADIUS

VOLLHARTMETALL, 4 SCHNEIDEN ECKENRADIUS

EIB88 SERIES

MATERIAL	GRAPHITE	
	DIAMETER	RPM
6.0	40000	5600
8.0	32000	5600
10.0	26000	5700
12.0	21000	5450



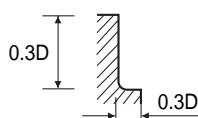
RPM = rev./min.
FEED = mm/min.

CARBIDE, 3 FLUTE 40° HELIX CORNER RADIUS

VOLLHARTMETALL, 3 SCHNEIDEN 40° RECHTSSPIRALE
ECKENRADIUS

EIA13, EIA14 SERIES

MATERIAL	GRAPHITE	
	DIAMETER	RPM
2.0	40000	3000
3.0	40000	4200
4.0	40000	6000
5.0	40000	7200
6.0	40000	8400
8.0	32000	8400
10.0	26000	8600
12.0	21000	8200



* The FEED, in long & long reach types, should be reduced by around 50%

RPM = rev./min.
FEED = mm/min.



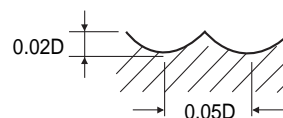
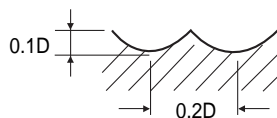
**D-POWER
END MILLS**

**RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN**

**CARBIDE, 2 FLUTE MINIATURE BALL NOSE
VOLLHARTMETALL, 2 SCHNEIDEN MINI STIRNRADIUS**

GEB46, GEB02 SERIES

MATERIAL DIAMETER	ALUMINUM DIECAST		COPPER ALLOY	
	RPM	FEED	RPM	FEED
R0.25 × 0.5	50000	850	43000	650
R0.3 × 0.6	50000	1300	43000	1000
R0.4 × 0.8	50000	1600	38000	1200
R0.5 × 1.0	46000	2000	34000	1400
R0.6 × 1.2	39000	2000	29000	1400
R0.75 × 1.5	36000	2000	26000	1400
R1.0 × 2.0	27000	1800	20000	1300
R1.5 × 3.0	20000	1800	13500	1300
R2.0 × 4.0	15000	1800	10000	1300
R2.5 × 5.0	12000	1800	8000	1300
R3.0 × 6.0	10000	1800	6800	1300

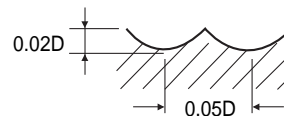
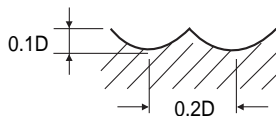


RPM = rev./min.
FEED = mm/min.

**CARBIDE, 2 FLUTE BALL NOSE
VOLLHARTMETALL, 2 SCHNEIDEN STIRNRADIUS**

GE944, GE945, GE946 SERIES

MATERIAL DIAMETER	ALUMINUM DIECAST		COPPER ALLOY	
	RPM	FEED	RPM	FEED
R1.0 × 2.0	25000	1000	19000	800
R1.5 × 3.0	17000	1000	12500	800
R2.0 × 4.0	12500	1000	9500	800
R2.5 × 5.0	10000	1200	7600	850
R3.0 × 6.0	8500	1350	6400	900
R4.0 × 8.0	7000	1450	5100	900
R5.0 × 10.0	6000	1450	4200	900
R6.0 × 12.0	5000	1450	3500	900



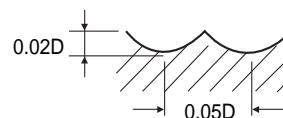
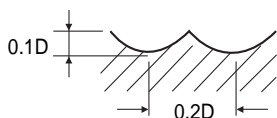
* The FEED, in long & long reach types, should be reduced by around 50%

RPM = rev./min.
FEED = mm/min.

CARBIDE, 3 FLUTE BALL NOSE VOLLHARTMETALL, 3 SCHNEIDEN STIRNRADIUS

GE947 SERIES

MATERIAL DIAMETER	ALUMINUM DIECAST		COPPER ALLOY	
	RPM	FEED	RPM	FEED
R1.0 × 2.0	25000	1000	19000	800
R1.5 × 3.0	17000	1000	12500	800
R2.0 × 4.0	12500	1000	9500	800
R2.5 × 5.0	10000	1200	7600	850
R3.0 × 6.0	8500	1350	6400	900
R4.0 × 8.0	7000	1450	5100	900
R5.0 × 10.0	6000	1450	4200	900
R6.0 × 12.0	5000	1450	3500	900

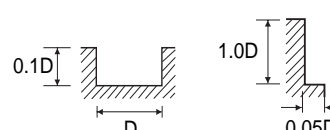
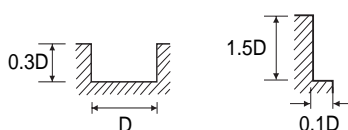


RPM = rev./min.
FEED = mm/min.

CARBIDE, 2 FLUTE VOLLHARTMETALL, 2 SCHNEIDEN

GE927 SERIES

MATERIAL DIAMETER	ALUMINUM DIECAST		COPPER ALLOY	
	RPM	FEED	RPM	FEED
0.5	32000	100	32000	100
1.0	32000	190	25000	140
2.0	27000	300	12000	150
3.0	20000	510	8000	220
4.0	15000	520	6000	240
5.0	12000	540	4800	250
6.0	10000	600	4000	250
8.0	8000	650	3000	280
10.0	6400	680	2500	330
12.0	5500	800	2000	360
16.0	4000	1000	1500	450
20.0	3300	1200	1200	500



* The FEED, in long & long reach types, should be reduced by around 50%

RPM = rev./min.
FEED = mm/min.

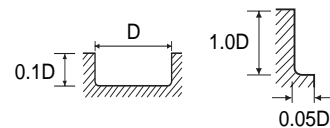
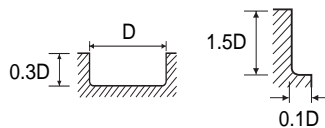


RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

CARBIDE, 2 FLUTE MINIATURE CORNER RADIUS
VOLLHARTMETALL, 2 SCHNEIDEN MINI ECKENRADIUS

GEB45, GEB01 SERIES

MATERIAL	ALUMINUM DIECAST		COPPER ALLOY	
	DIAMETER	RPM	FEED	RPM
0.5	32000	130	32000	130
1.0	32000	250	25000	180
1.5	32000	320	16000	185
2.0	27000	390	12000	190
3.0	20000	660	8000	280
4.0	15000	670	6000	310
5.0	12000	700	4800	320
6.0	10000	780	4000	320

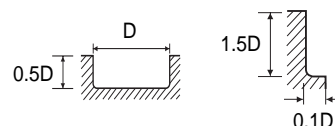
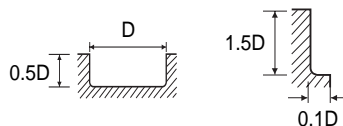


RPM = rev./min.
FEED = mm/min.

CARBIDE, 4 FLUTE CORNER RADIUS
VOLLHARTMETALL, 4 SCHNEIDEN ECKENRADIUS

GEB03 SERIES

MATERIAL	ALUMINUM DIECAST		COPPER ALLOY	
	DIAMETER	RPM	FEED	RPM
6.0	10000	1850	4000	530
8.0	7500	2000	3000	610
10.0	6000	2250	2400	640
12.0	5000	2250	2000	680

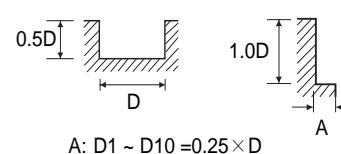
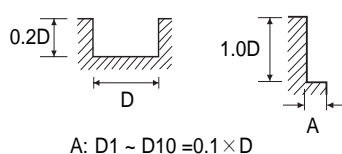


RPM = rev./min.
FEED = mm/min.

CARBIDE, 2 FLUTE 45° HELIX VOLLHARTMETALL, 2 SCHNEIDEN 45° RECHTSSPIRALE

GE926 SERIES

MATERIAL	ALUMINUM DIECAST		COPPER ALLOY	
	DIAMETER	RPM	FEED	RPM
1.0	30000	260	20000	80
2.0	30000	450	20000	160
3.0	24000	700	14000	280
4.0	20000	950	11000	380
5.0	13000	1100	7500	400
6.0	13000	1200	7500	480
8.0	11000	1500	6000	580
10.0	8500	1800	4800	700
12.0	7200	2200	3900	850
16.0	6000	2000	3300	780
20.0	3600	1600	2000	630

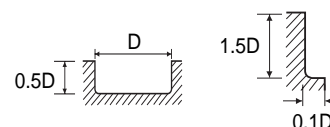
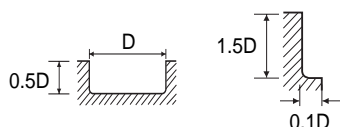


RPM = rev./min.
FEED = mm/min.

CARBIDE, 3 FLUTE 40° HELIX CORNER RADIUS VOLLHARTMETALL, 3 SCHNEIDEN 40° RECHTSSPIRALE ECKENRADIUS

GE928, GE929 SERIES

MATERIAL	ALUMINUM DIECAST		COPPER ALLOY	
	DIAMETER	RPM	FEED	RPM
2.0	27000	1000	10000	250
3.0	21000	1100	8000	320
4.0	15000	1200	6000	360
5.0	12000	1250	4800	385
6.0	10000	1400	4000	400
8.0	7500	1500	3000	460
10.0	6000	1700	2400	480
12.0	5000	1700	2000	510



※ The FEED, in long & long reach types, should be reduced by around 50%

RPM = rev./min.
FEED = mm/min.