



Gewindefräser Thread Milling Cutters



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BGF-Z2**Bohrgewindefräser**

- Zur Herstellung von Kernloch, Senkphase und Innengewinde in einem Arbeitsgang
- Kein vorgearbeitetes Kernloch notwendig
- Abmessungsgebunden

**Drill thread mills**

- For the production of thread hole, chamfer and internal thread in one work process
- A premachined thread hole is not necessary
- For one thread size only

BGF-Z3**Bohrgewindefräser**

- Zur Herstellung von Kernloch, Senkphase und Innengewinde in einem Arbeitsgang
- Kein vorgearbeitetes Kernloch notwendig
- Abmessungsgebunden
- Speziell für vorgegossene Kernlöcher

**Drill thread mills**

- For the production of thread hole, chamfer and internal thread in one work process
- A premachined thread hole is not necessary
- For one thread size only
- Especially for pre-cast thread holes

369 - 388

BGF-Z4**Bohrgewindefräser**

- Zur Herstellung von Kernloch, Senkphase und Innengewinde in einem Arbeitsgang
- Kein vorgearbeitetes Kernloch notwendig
- Abmessungsgebunden
- Kurze Bearbeitungszeit durch 4 Nuten

**Drill thread mills**

- For the production of thread hole, chamfer and internal thread in one work process
- A premachined thread hole is not necessary
- For one thread size only
- Short machining time due to 4 flutes

ZBGF**Zirkular-Bohrgewindefräser**

- Zur Herstellung von Kernloch und Innengewinde in einem Arbeitsgang
- Anfasen des Kernlochs mit Stirnphase möglich
- Kein vorgearbeitetes Kernloch notwendig
- Abmessungsgebunden

**Circular drill thread mills**

- For the production of thread hole, chamfer and internal thread in one work process
- Chamfering the thread hole with face chamfer possible
- A premachined thread hole is not necessary
- For one thread size only

ZBGF-S-CUT**Zirkular-Bohrgewindefräser**

- Zur Herstellung von Kernloch und Innengewinde in einem Arbeitsgang
- Anfasen des Kernlochs mit Stirnphase möglich
- Kein vorgearbeitetes Kernloch notwendig
- Abmessungsgebunden
- Für nichtrostende Stahlwerkstoffe und Spezialwerkstoffe wie Inconel oder Titan

**Circular drill thread mills**

- For the production of thread hole and internal thread in one work process
- Chamfering the thread hole with face chamfer possible
- A premachined thread hole is not necessary
- For one thread size only
- For stainless steel materials and special materials such as Inconel or titanium

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ZBGF-HCUT**Zirkular-Bohrgewindefräser**

- Zur Herstellung von Kernloch und Innengewinde in einem Arbeitsgang
- Anfasen des Kernlochs mit Stirnphase möglich
- Kein vorgearbeitetes Kernloch notwendig
- Abmessungsgebunden
- Für harte Werkstoffe ab 44 HRC

**Circular drill thread mills**

- For the production of thread hole and internal thread in one work process
- Chamfering the thread hole with face chamfer possible
- A premachined thread hole is not necessary
- For one thread size only
- For hard materials from 44 HRC

GSF**Gewindefräser mit Senkphase**

- Zur Herstellung von Senkphase und Innengewinde in einem Arbeitsgang
- Vorgearbeitetes Kernloch notwendig
- Abmessungsgebunden

**Thread milling cutters with countersinking step**

- For the production of countersunk chamfer and internal thread in one work process
- A premachined thread hole is necessary
- For one thread size only

405 - 426



GSF-R30

Gewindefräser mit Senkfase

- Zur Herstellung von Senkfase und Innengewinde in einem Arbeitsgang
- Vorgearbeitetes Kernloch notwendig
- Abmessungsgebunden
- Ruhiges Fräsen durch Nuten mit 30° Drallwinkel



GSF-Z

Gewindefräser mit Senkfase

- Zur Herstellung von Senkfase und Innengewinde in einem Arbeitsgang
- Vorgearbeitetes Kernloch notwendig
- Abmessungsgebunden
- Ruhiges Fräsen durch Nuten mit 15° Drallwinkel
- Kurze Bearbeitungszeit durch mehr Nuten



GF

Gewindefräser

- Zur Herstellung von Innengewinden
- Vorgearbeitetes Kernloch notwendig
- Steigungsgebunden
- Abmessungsübergreifend



GF-R30

Gewindefräser

- Zur Herstellung von Innengewinden
- Vorgearbeitetes Kernloch notwendig
- Steigungsgebunden
- Abmessungsübergreifend
- Ruhiges Fräsen durch Nuten mit 30° Drallwinkel



GF-R30-Long

Gewindefräser

- Zur Herstellung von Innengewinden
- Vorgearbeitetes Kernloch notwendig
- Steigungsgebunden
- Abmessungsübergreifend
- Ruhiges Fräsen durch Nuten mit 30° Drallwinkel
- Langes Gewindeteil für tiefe Gewinde



GF-Z

Gewindefräser

- Zur Herstellung von Innengewinden
- Vorgearbeitetes Kernloch notwendig
- Steigungsgebunden
- Abmessungsübergreifend
- Ruhiges Fräsen durch Nuten mit 15° Drallwinkel
- Kurze Bearbeitungszeit durch mehr Nuten



GF-Z-Extern

Gewindefräser

- Zur Herstellung von Außengewinden
- Vorgearbeiteter Bolzen notwendig
- Steigungsgebunden
- Abmessungsübergreifend
- Ruhiges Fräsen durch Nuten mit 15° Drallwinkel

Thread milling cutters with countersinking step

- For the production of countersunk chamfer and internal thread in one work process
- A premachined thread hole is necessary
- For one thread size only
- Smooth milling thanks to flutes with 30° helix angle

405 - 426

Thread milling cutters with countersinking step

- For the production of countersunk chamfer and internal thread in one work process
- A premachined thread hole is necessary
- For one thread size only
- Smooth milling thanks to flutes with 15° helix angle
- Short machining time due to increased number of flutes

Thread milling cutters

- For the production of internal threads
- A premachined thread hole is necessary
- For one pitch only
- For different thread sizes

Thread milling cutters

- For the production of internal threads
- A premachined thread hole is necessary
- For one pitch only
- For different thread sizes
- Smooth milling thanks to flutes with 30° helix angle

427 - 441

Thread milling cutters

- For the production of internal threads
- A premachined thread hole is necessary
- For one pitch only
- For different thread sizes
- Smooth milling thanks to flutes with 30° helix angle
- Long thread part for deep threads

Thread milling cutters

- For the production of internal threads
- A premachined thread hole is necessary
- For one pitch only
- For different thread sizes
- Smooth milling thanks to flutes with 15° helix angle
- Short machining time due to increased number of flutes

Thread milling cutters

- For the production of external threads
- A premachined bolt is necessary
- For one pitch only
- For different thread sizes
- Smooth milling thanks to flutes with 15° helix angle



GF-Vario-Z

Gewindefräser

- Zur Herstellung von Innengewinden
- Vorgearbeitetes Kernloch notwendig
- Steigungsgebunden
- Abmessungsübergreifend
- Ruhiges Fräsen durch Nuten mit 15° Drallwinkel
- Kurze Bearbeitungszeit durch mehr Nuten
- Zum Entfernen des unvollständigen Ganges am Gewindefang



GF-Vario-Z-AZR1

Gewindefräser

- Zur Herstellung von Innengewinden
- Vorgearbeitetes Kernloch notwendig
- Steigungsgebunden
- Abmessungsübergreifend
- Ruhiges Fräsen durch Nuten mit 15° Drallwinkel
- Kurze Bearbeitungszeit durch mehr Nuten
- Zum Entfernen des unvollständigen Ganges am Gewindefang
- Stark reduzierte Axialkräfte durch ausgesetzte Zahnreihen



GF-KEG

Gewindefräser

- Zur Herstellung von kegeligen Innengewinden
- Zylindrisch oder besser kegelig vorgearbeitetes Kernloch notwendig
- Steigungsgebunden
- Abmessungsübergreifend



GF-KEG-R15-Long

Gewindefräser

- Zur Herstellung von kegeligen Innengewinden
- Zylindrisch oder besser kegelig vorgearbeitetes Kernloch notwendig
- Steigungsgebunden
- Abmessungsübergreifend
- Ruhiges Fräsen durch Nuten mit 15° Drallwinkel
- Langes Gewindeteil für tiefe Gewinde



ZGF

Zirkular-Gewindefräser

- Zur Herstellung von Innengewinden
- Vorgearbeitetes Kernloch notwendig
- Steigungsübergreifend
- Abmessungsübergreifend
- Anfasen des Kernlochs mit Stirnfase möglich



ZGF-Z

Zirkular-Gewindefräser

- Zur Herstellung von Innengewinden
- Vorgearbeitetes Kernloch notwendig
- Steigungsübergreifend
- Abmessungsübergreifend
- Anfasen des Kernlochs mit Stirnfase möglich
- Kurze Bearbeitungszeit durch mehr Nuten



ZGF-S-CUT

Zirkular-Gewindefräser

- Zur Herstellung von Innengewinden
- Vorgearbeitetes Kernloch notwendig
- Steigungsgebunden
- Abmessungsübergreifend
- Für nichtrostende Stahlwerkstoffe und Spezialwerkstoffe wie Inconel oder Titan

Thread milling cutters

- For the production of internal threads
- A premachined thread hole is necessary
- For one pitch only
- For different thread sizes
- Smooth milling thanks to flutes with 15° helix angle
- Short machining time due to increased number of flutes
- For removing the incomplete thread at the start of the thread

442 - 448

Thread milling cutters

- For the production of internal threads
- A premachined thread hole is necessary
- For one pitch only
- For different thread sizes
- Smooth milling thanks to flutes with 15° helix angle
- Short machining time due to increased number of flutes
- For removing the incomplete thread at the start of the thread
- Significantly reduced radial forces due to alternating tooth rows

449 - 462

Thread milling cutters

- For the production of tapered internal threads
- A premachined cylindrical, or preferably, a tapered thread hole is necessary
- For one pitch only
- For different thread sizes

Thread milling cutters

- For the production of tapered internal threads
- A premachined cylindrical, or preferably, a tapered thread hole is necessary
- For one pitch only
- For different thread sizes
- Smooth milling thanks to flutes with 15° helix angle
- Long thread part for deep threads

463 - 378

Circular thread milling cutters

- For the production of internal threads
- A premachined thread hole is necessary
- For different thread pitches
- For different thread sizes
- Chamfering the thread hole with face chamfer possible

Circular thread milling cutters

- For the production of internal threads
- A premachined thread hole is necessary
- For different thread pitches
- For different thread sizes
- Chamfering the thread hole with face chamfer possible
- Short machining time due to increased number of flutes

Circular thread milling cutters

- For the production of internal threads
- A premachined thread hole is necessary
- For one pitch only
- For different thread sizes
- For stainles steel materials and special materials such as Inconel or titanium



ZGF-HCUT

Zirkular-Gewindefräser

- Zur Herstellung von Innen Gewinden
- Vorgearbeitetes Kernloch notwendig
- Steigungsgebunden
- Abmessungsübergreifend
- Für harte Werkstoffe ab 44 HRC

Circular thread milling cutters

- For the production of internal threads
- A premachined thread hole is necessary
- For one pitch only
- For different thread sizes
- For hard materials from 44 HRC

463 - 378



ZIRK-GF

Zirkular-Gewindefräskörper

mit einer oder zwei Mehrzahn-Wechselplatten (MZP)

- Zur Herstellung von Innen- oder Außengewinden
- Vorgearbeitetes Kernloch oder vorgearbeiteter Bolzen notwendig
- Steigungsgebunden
- Abmessungsübergreifend

Circular thread milling bodies

with one or two multi-tooth exchangeable inserts (MZP)

- For the production of internal or external threads
- A premachined thread hole or a premachined bolt is necessary
- For one pitch only
- For different thread sizes

479 - 490



ZIRK-GF

Zirkular-Gewindefräskörper

mit 3-Zahn-Wechselplatte (3ZP)

- Zur Herstellung von Innen- oder Außengewinden
- Vorgearbeitetes Kernloch oder vorgearbeiteter Bolzen notwendig
- Steigungsübergreifend
- Abmessungsübergreifend

Circular thread milling bodies

with 3-tooth exchangeable inserts (3ZP)

- For the production of internal or external threads
- A premachined thread hole or a premachined bolt is necessary
- For different thread pitches
- For different thread sizes



ZIRK-GF

Zirkular-Gewindefräskörper

mit Stirn-Wechselplatte (SWP)

- Zur Herstellung von Innen- oder Außengewinden
- Vorgearbeitetes Kernloch oder vorgearbeiteter Bolzen notwendig
- Steigungsübergreifend
- Abmessungsübergreifend
- Kurze Bearbeitungszeit durch mehr Nuten

Circular thread milling bodies

with exchangeable face insert (SWP)

- For the production of internal or external threads
- A premachined thread hole or a premachined bolt is necessary
- For different thread pitches
- For different thread sizes
- Short machining time due to increased number of flutes



Gigant

Zirkular-Gewindefräskörper

mit 2-Zahn- oder 4-Zahn-Wendeplatten

- Zur Herstellung von Innen- oder Außengewinden
- Vorgearbeitetes Kernloch oder vorgearbeiteter Bolzen notwendig
- Steigungsübergreifend
- Abmessungsübergreifend

Circular thread milling bodies

with 2-tooth or 4-tooth indexable inserts

- For the production of internal or external threads
- A premachined thread hole or a premachined bolt is necessary
- For different thread pitches
- For different thread sizes

491 - 509



Gigant

Fräsringe

für Gigant Zirkular-Gewindefräskörper

- Zum Entfernen des unvollständigen Ganges am Gewindeanfang
- Kein zeitlicher Mehraufwand

Milling rings

for Gigant circular thread milling bodies

- For removing the incomplete thread at the start of the thread
- No additional time required



MoSys

Kombinierbares Plan- und Stufensenk-System

- Zur Komplettbearbeitung von z.B. Bohrung, Gewinde und Plansenkung

Counterbore and stepped bore system for free combination

- For the complete machining of thread hole, thread and spot face

510 - 512



Mögliche Modifikationen an Gewindefräsern

Possible modifications on thread milling cutters



Geeignet für:

- Alle Typen GF und GSF
- Alle Typen BGF (Stirnfase am Bohrteil)

Suitable for:

- All types GF and GSF
- All types BGF (face chamfer on the drilling part)

Note:

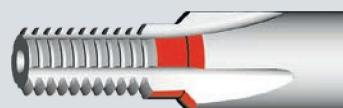
- Face chamfer for circular chamfering of the thread hole
- Additional cutting face for circular face milling

Bemerkung:

- Stirnfase für zirkuläres Anfasen des Kernloches
- Zusätzlicher Stirnschnitt für zirkuläres Planfräsen

Unvollständigen Gang entfernen

Removal of incomplete thread



Geeignet für:

- Alle Typen GF, GSF und BGF

Suitable for:

- All types GF, GSF and BGF

Bemerkung:

- Am schaftseitigen Ende des Frästeils wird eine Stufe mit einer Länge von min. 1 x P hinterschliffen
- Bei entsprechender Eintauchtiefe wird beim Gewindefräsen der unvollständige, gratbehaftete Gewindeauslauf abgefräst (entfernt)

Note:

- At the rear end of the thread part, a step with a length of min. 1 x P is relief-ground
- If the tool plunges to a correct depth during the thread milling process, the incomplete thread run-out with its burr is milled off (removed)

Halsfreischliff

Recessed neck



Geeignet für:

- Alle Typen GF und GSF (Senkfase entfällt)

Suitable for:

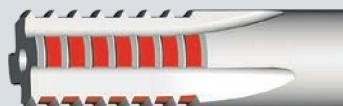
- All types GF and GSF (no countersinking step)

Bemerkung:

- Für größere Gewindetiefen (gesamte Gewindetiefe setzt sich aus zwei Fräsdurchläufen zusammen)
- Für einen konstanten Schnittdruck wird die Frästeillänge und die Halslänge im Verhältnis 1:1 aufgeteilt!
- Die Frästeillänge und der Versatz für einen zweiten Fräsdurchlauf sind immer ein ganzzahliges Vielfaches der Profilteilung

Note:

- For larger thread depths (total thread depth is achieved by a double milling process)
- For constant cutting pressure, the thread part length and the neck length are arranged in a ratio of 1:1!
- The thread part length and the offset for a second milling process are always a whole-number multiple of the thread pitch

**Mögliche Modifikationen an Gewindefräsern****AZR****Radial ausgesetzte Zahnreihen****Geeignet für:**

- Alle Typen GF, GSF und BGF

Bemerkung:

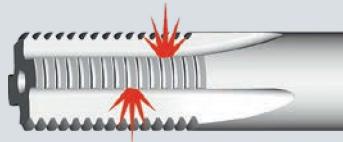
- Durch radial ausgesetzte Zahnreihen werden die Seitenkräfte beim Gewindefräsen reduziert; die zyklisch fehlenden Gewindelücken werden durch zusätzliche zirkuläre Fräsumläufe gefräst

Possible modifications on thread milling cutters**Radially alternating tooth rows****Suitable for:**

- All types GF, GSF and BGF

Note:

- Radially alternating tooth rows help to reduce lateral forces in thread milling; the alternating missing gaps in the thread are produced by additional circular milling orbits

IKZN**Innere Kühlsmierstoff-Zufuhr mit Austritt in den Nuten****Geeignet für:**

- Alle Typen GF und GSF

Bemerkung:

- Stirnseitig verschlossene Axialbohrung für die Bearbeitung von Durchgangslöchern
- Für maximale Stabilität des Frästeils sind die seitlichen Austrittsbohrungen axial versetzt angeordnet

Internal coolant supply exiting in the flutes**Suitable for:**

- All types GF and GSF

Note:

- Axial coolant bore closed up at the tool face for the production of through hole threads
- For maximum stability of the cutting part, the lateral coolant holes are axially staggered

Schaftkühlnuten**Coolant grooves along the shank****Geeignet für:**

- Alle Typen GF, GSF und BGF

Bemerkung:

- Für die Bearbeitung von Durchgangslöchern
- Zusätzlich oder ersatzweise zu IKZ oder IKZN
- Ggf. unterstützend zur Kühlung der Senkfase bei GSF und BGF oder des Plansenkers bei MoSys-Anwendungen

Suitable for:

- All types GF, GSF and BGF

Note:

- For the production of through hole threads
- In addition or as an alternative to IKZ or IKZN
- Possible support in the cooling of the countersinking step of GSF and BGF type tools, or of the plane milling head in MoSys applications

Einsatzempfehlungen und Schnittwerte

M

Bitte beachten:

Die in den jeweiligen Spalten angegebenen Schnittwerte sind Richtwerte, welche je nach Einsatzbedingungen (Werkzeugspannung, Werkstückspannung, Gewindetiefe, usw.) angepasst werden müssen.

MF
UNC
UN, UNSUNF
UNEFv_c = Schnittgeschwindigkeit [m/min]

G, Rp

f_z = Vorschub pro Zahn [mm]NPT, NPTF
Rc, Wf_b = Vorschub beim Bohren [mm/U]

BSW, BSF

Internationaler Werkstoffvergleich siehe Seite 764 - 785

Pg

MJ
UNJC, UNJFEinsatzgebiete – Material
Applications – materialMaterial-Beispiele
Material examplesMaterial-Nummern
Material numbers

EG (STI)	1.1	Stahlwerkstoffe		Steel materials		
		Kaltfließpressstähle, Baustähle, Automatenstähle, u.a.	Cold-extrusion steels, Construction steels, Free-cutting steels, etc.	≤ 600 N/mm ²	Cq15 S235JR (St37-2) 10SPb20	1.1132 1.0037 1.0722
SELF-LOCK	2.1	Baustähle, Einsatzstähle, Stahlguss, u.a.	Construction steels, Cementation steels, Steel castings, etc.	≤ 800 N/mm ²	E360 (St70-2) 16MnCr5 GS-25CrMo4	1.0070 1.7131 1.7218
		Einsatzstähle, Vergütungsstähle, Kaltarbeitsstähle, u.a.	Cementation steels, Heat-treatable steels, Cold work steels, etc.	≤ 1000 N/mm ²	20MoCr3 42CrMo4 102Cr6	1.7320 1.7225 1.2067
Tr	3.1	Vergütungsstähle, Kaltarbeitsstähle, Nitrierstähle, u.a.	Heat-treatable steels, Cold work steels, Nitriding steels, etc.	≤ 1200 N/mm ²	50CrMo4 X45NiCrMo4 31CrMo12	1.7228 1.2767 1.8515
		Hochlegierte Stähle, Kaltarbeitsstähle, Warmarbeitsstähle, u.a.	High-alloyed steels, Cold work steels, Hot work steels, etc.	≤ 1400 N/mm ²	X38CrMoV5-3 X100CrMoV8-1-1 X40CrMoV5-1	1.2367 1.2990 1.2344
Zubehör Accessories	4.1	Nichtrostende Stahlwerkstoffe	Stainless steel materials			
ZBGF	M	1.1 Ferritisch, martensitisch	Ferritic, martensitic	≤ 950 N/mm ²	X2CrTi12	1.4512
ZGF	2.1	Austenitisch	Austenitic	≤ 950 N/mm ²	X6CrNiMoTi17-12-2	1.4571
GSF	3.1	Austenitisch-ferritisch (Duplex)	Austenitic-ferritic (Duplex)	≤ 1100 N/mm ²	X2CrNiMoN22-5-3	1.4462
	4.1	Austenitisch-ferritisch hitzebeständig (Super Duplex)	Austenitic-ferritic heat-resistant (Super Duplex)	≤ 1250 N/mm ²	X2CrNiMoN25-7-4	1.4410
GF	1.1	Gusswerkstoffe	Cast materials			
		Gusseisen mit Lamellengrafit (GJL)	Cast iron with lamellar graphite (GJL)	100-250 N/mm ² 250-450 N/mm ²	EN-GJL-200 (GG20) EN-GJL-300 (GG30)	EN-JL-1030 EN-JL-1050
GF-VZ	2.1	Gusseisen mit Kugelgraffit (GJS)	Cast iron with nodular graphite (GJS)	350-500 N/mm ² 500-900 N/mm ²	EN-GJS-400-15 (GGG40) EN-GJS-700-2 (GGG70)	EN-JS-1030 EN-JS-1070
		3.1 Gusseisen mit Vermiculargrafit (GJV)	Cast iron with vermicular graphite (GJV)	300-400 N/mm ² 400-500 N/mm ²	GJV 300 GJV 450	
GF-KEG	3.2	Temperguss (GTMW, GTMB)	Malleable cast iron (GTMW, GTMB)	250-500 N/mm ² 500-800 N/mm ²	EN-GJMW-350-4 (GTW-35) EN-GJM-B-450-6 (GTS-45)	EN-JM-1010 EN-JM-1140
ZGF	4.1	Nichteisenwerkstoffe	Non ferrous materials			
ZIRK-GF	1.1	Aluminium-Legierungen	Aluminium alloys			
Gigant	1.2	Aluminium-Knetlegierungen	Aluminium wrought alloys	≤ 200 N/mm ² ≤ 350 N/mm ² ≤ 550 N/mm ²	EN AW-AlMn1 EN AW-AlMgSi EN AW-AlZn5Mg3Cu	EN AW-3103 EN AW-6060 EN AW-7022
MoSys	1.3			Si ≤ 7%	EN AC-AlMg5	EN AC-51300
	1.4			7% < Si ≤ 12%	EN AC-AlSi9Cu3	EN AC-46500
	1.5	Aluminium-Gusslegierungen	Aluminium cast alloys	12% < Si ≤ 17%	GD-AlSi17Cu4FeMg	
N	2.1	Kupfer-Legierungen	Copper alloys			
		Reinkupfer, niedriglegiertes Kupfer	Pure copper, low-alloyed copper	≤ 400 N/mm ²	E-Cu 57	EN CW 004 A
	2.2	Kupfer-Zink-Legierungen (Messing, langspanend)	Copper-zinc alloys (brass, long-chipping)	≤ 550 N/mm ²	CuZn37 (Ms63)	EN CW 508 L
	2.3	Kupfer-Zink-Legierungen (Messing, kurzspanend)	Copper-zinc alloys (brass, short-chipping)	≤ 550 N/mm ²	CuZn36Pb3 (Ms58)	EN CW 603 N
	2.4	Kupfer-Aluminium-Legierungen (Albronzee, langspanend)	Copper-aluminum alloys (alu bronze, long-chipping)	≤ 800 N/mm ²	CuAl10Ni5Fe4	EN CW 307 G
	2.5	Kupfer-Zinn-Legierungen (Zinnbronze, langspanend)	Copper-tin alloys (tin bronze, long-chipping)	≤ 700 N/mm ²	CuSn8P	EN CW 459 K
	2.6	Kupfer-Zinn-Legierungen (Zinnbronze, kurzspanend)	Copper-tin alloys (tin bronze, short-chipping)	≤ 400 N/mm ²	CuSn7 ZnPb (Rg7)	2.1090
	2.7	Kupfer-Sonderlegierungen	Special copper alloys	≤ 600 N/mm ² ≤ 1400 N/mm ²	(AMPCO® 8) (AMPCO® 45)	
H	3.1	Magnesium-Legierungen	Magnesium alloys			
		Magnesium-Knetlegierungen	Magnesium wrought alloys	≤ 500 N/mm ²	MgAl6Zn	3.5612
	3.2	Magnesium-Gusslegierungen	Magnesium cast alloys	≤ 500 N/mm ²	EN-MCMgAl9Zn1	EN-MC21120
S	4.1	Kunststoffe	Synthetics			
		Duroplaste (kurzspanend)	Duroplastics (short-chipping)		Bakelite, Pertinax	
	4.2	Thermoplaste (langspanend)	Thermoplastics (long-chipping)		PMMA, POM, PVC	
	4.3	Faser verstärkte Kunststoffe (Faseranteil ≤ 30%)	Fibre-reinforced synthetics (fibre content ≤ 30%)		GFK, CFK, AFK	
	4.4	Faser verstärkte Kunststoffe (Faseranteil > 30%)	Fibre-reinforced synthetics (fibre content > 30%)		GFK, CFK, AFK	
MoSys	5.1	Besondere Werkstoffe	Special materials			
		Graphit	Graphite		C 8000	
Gigant	5.2	Wolfram-Kupfer-Legierungen	Tungsten-copper alloys		W-Cu 80/20	
	5.3	Verbundwerkstoffe	Composite materials		Hylite, Alucobond	
N	2.1	Spezialwerkstoffe	Special materials			
		Titan-Legierungen	Titanium alloys			
	1.1	Reintitan	Pure titanium	≤ 450 N/mm ²	Ti1	3.7025
	1.2	Titan-Legierungen	Titanium alloys	≤ 900 N/mm ²	TiAl6V4	3.7165
	1.3			≤ 1250 N/mm ²	TiAl4Mo4Sn2	3.7185
S	2.1	Nickel-, Kobalt- und Eisen-Legierungen	Nickel alloys, cobalt alloys and iron alloys			
		Reinnickel	Pure nickel	≤ 600 N/mm ²	Ni 99,6	2.4060
	2.2	Nickel-Basis-Legierungen	Nickel-base alloys	≤ 1000 N/mm ²	Monel 400	2.4360
	2.3			≤ 1600 N/mm ²	Inconel 718	2.4668
	2.4	Kobalt-Basis-Legierungen	Cobalt-base alloys	≤ 1000 N/mm ²	Üdimet 605	
	2.5			≤ 1600 N/mm ²	Haynes 25	2.4964
	2.6	Eisen-Basis-Legierungen	Iron-base alloys	≤ 1500 N/mm ²	Incoloy 800	1.4958
H	1.1	Harte Werkstoffe	Hard materials			
	1.2			44 - 50 HRC	Weldox 1100	
	1.3			50 - 55 HRC	Hardox 550	
	1.4			55 - 60 HRC	Armax 600T	
	1.5	Hochfeste Stähle, gehärtete Stähle, Hartguss	High strength steels, hardened steels, hard castings	60 - 63 HRC	Ferro-Titanit	
				63 - 66 HRC	HSSE	

Application recommendation and cutting data

Please note:

The cutting values listed in the respective columns are standard values which have to be adjusted to individual work conditions (tool clamping, workpiece clamping, thread depth, etc.).

v_c = Cutting speed [m/min]f_z = Feed per tooth [mm]f_b = Drilling feed [mm/rev.]

BGF-Z2		BGF-Z3		BGF-Z4				Product Finder
	TiCN		TiCN		TiAlN-T3			Product Finder
Unbeschichtet Uncoated	Unbeschichtet Uncoated	Unbeschichtet Uncoated	Unbeschichtet Uncoated	Unbeschichtet Uncoated	Unbeschichtet Uncoated			
v _c [m/min] min. empf. max.	v _c [m/min] min. empf. max.	v _c [m/min] min. empf. max.	v _c [m/min] min. empf. max.	v _c [m/min] min. empf. max.	v _c [m/min] min. empf. max.	f _b [mm/U · mm/rev.] min. empf. max.	f _z [mm] min. empf. max.	
								P
								M
70 100 130	84 120 156	70 100 130	84 120 156	70 100 130	84 120 156	0,018 0,030 0,042 x d ₁	0,006 0,010 0,014 x d _F	1.1
70 100 130	84 120 156	70 100 130	84 120 156	70 100 130	84 120 156	0,018 0,030 0,042 x d ₁	0,006 0,010 0,014 x d _F	1.2
70 100 130	84 120 156					0,012 0,020 0,028 x d ₁	0,006 0,010 0,014 x d _F	2.1
70 100 130	84 120 156					0,012 0,020 0,028 x d ₁	0,006 0,010 0,014 x d _F	2.2
70 100 130	84 120 156					0,018 0,030 0,042 x d ₁	0,006 0,010 0,014 x d _F	3.1
70 100 130	84 120 156					0,018 0,030 0,042 x d ₁	0,006 0,010 0,014 x d _F	3.2
70 100 130	84 120 156							4.1
								4.2
								K
126 180 234	126 180 234					0,012 0,020 0,028 x d ₁	0,007 0,012 0,017 x d _F	1.1
126 180 234	126 180 234					0,012 0,020 0,028 x d ₁	0,007 0,012 0,017 x d _F	1.2
126 180 234	126 180 234					0,012 0,020 0,028 x d ₁	0,007 0,012 0,017 x d _F	1.3
126 180 234	126 180 234					0,018 0,030 0,042 x d ₁	0,007 0,012 0,017 x d _F	1.4
126 180 234	126 180 234	70 100 130	175 250 325	175 250 325	175 250 325	0,018 0,030 0,042 x d ₁	0,007 0,012 0,017 x d _F	1.5
		105 150 195	105 150 195	105 150 195	105 150 195	0,018 0,030 0,042 x d ₁	0,007 0,012 0,017 x d _F	1.6
								N
126 180 234	175 250 325					0,015 0,025 0,035 x d ₁	0,007 0,012 0,017 x d _F	2.1
126 180 234	175 250 325	126 180 234	175 250 325	175 250 325	175 250 325	0,015 0,025 0,035 x d ₁	0,007 0,012 0,017 x d _F	2.2
								2.3
								2.4
105 150 195	126 180 234							2.5
								2.6
								2.7
								2.8
126 180 234	175 250 325					0,018 0,030 0,042 x d ₁	0,007 0,012 0,017 x d _F	3.1
126 180 234	175 250 325					0,021 0,035 0,049 x d ₁	0,007 0,012 0,017 x d _F	3.2
70 100 130	175 250 325							S
								H

Product Finder		ZBGF	ZBGF-S-CUT	ZBGF-HCUT	
v _c / f _z					
M					
MF					
UNC UN, UNS					
UNF UNEF					
G, Rp					
NPT, NPTF Rc, W					
BSW, BSF					
Pg					
MJ UNJC, UNJF					
v _c [m/min] min. empf. rec. max.	f _z [mm] min. empt. rec. max.	v _c [m/min] min. empf. rec. max.	f _z [mm] min. empt. rec. max.	v _c [m/min] min. empf. rec. max.	
EG (STI)	1.1	126 180 234	0,006 0,010 0,014 x d _F	126 180 234	0,006 0,010 0,014 x d _F
SELF-LOCK	2.1	105 150 195	0,005 0,009 0,013 x d _F	105 150 195	0,005 0,009 0,013 x d _F
Tr	3.1	84 120 156	0,005 0,008 0,011 x d _F	84 120 156	0,005 0,008 0,011 x d _F
Zubehör Accessories	4.1	70 100 130	0,004 0,007 0,010 x d _F	70 100 130	0,004 0,007 0,010 x d _F
BGF	5.1	56 80 104	0,004 0,006 0,008 x d _F	56 80 104	0,004 0,006 0,008 x d _F
ZBGF	M 1.1	63 90 117	0,005 0,008 0,011 x d _F	63 90 117	0,005 0,008 0,011 x d _F
ZBGF	M 2.1	63 90 117	0,005 0,008 0,011 x d _F	63 90 117	0,005 0,008 0,011 x d _F
GSF	M 3.1	42 60 78	0,004 0,007 0,010 x d _F	42 60 78	0,004 0,007 0,010 x d _F
GSF	M 4.1	35 50 65	0,004 0,006 0,008 x d _F	35 50 65	0,004 0,006 0,008 x d _F
GF	K 1.1	112 160 208	0,005 0,009 0,013 x d _F	112 160 208	0,005 0,009 0,013 x d _F
GF-VZ	K 1.2	112 160 208	0,005 0,009 0,013 x d _F	112 160 208	0,005 0,009 0,013 x d _F
GF-VZ	K 2.1	105 150 195	0,005 0,009 0,013 x d _F	105 150 195	0,005 0,009 0,013 x d _F
GF-KEG	K 2.2	105 150 195	0,005 0,009 0,013 x d _F	105 150 195	0,005 0,009 0,013 x d _F
GF-KEG	K 3.1	105 150 195	0,005 0,009 0,013 x d _F	105 150 195	0,005 0,009 0,013 x d _F
GF-KEG	K 3.2	105 150 195	0,005 0,009 0,013 x d _F	105 150 195	0,005 0,009 0,013 x d _F
ZGF	K 4.1	105 150 195	0,005 0,009 0,013 x d _F	105 150 195	0,005 0,009 0,013 x d _F
ZGF	K 4.2	105 150 195	0,005 0,009 0,013 x d _F	105 150 195	0,005 0,009 0,013 x d _F
ZIRK-GF	N 1.1	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
ZIRK-GF	N 1.2	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
Gigant	N 1.3	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
Gigant	N 1.4	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
Gigant	N 1.5	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
Gigant	N 1.6	105 150 195	0,007 0,012 0,017 x d _F	105 150 195	0,007 0,012 0,017 x d _F
MoSys	N 2.1	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
MoSys	N 2.2	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
MoSys	N 2.3	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
MoSys	N 2.4	126 180 234	0,006 0,010 0,014 x d _F	126 180 234	0,006 0,010 0,014 x d _F
MoSys	N 2.5	126 180 234	0,006 0,010 0,014 x d _F	126 180 234	0,006 0,010 0,014 x d _F
MoSys	N 2.6	126 180 234	0,006 0,010 0,014 x d _F	126 180 234	0,006 0,010 0,014 x d _F
MoSys	N 2.7	42 60 78	0,005 0,008 0,011 x d _F	42 60 78	0,005 0,008 0,011 x d _F
MoSys	N 2.8	35 50 65	0,005 0,008 0,011 x d _F	35 50 65	0,005 0,008 0,011 x d _F
MoSys	N 3.1	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
MoSys	N 3.2	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
MoSys	N 4.1	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
MoSys	N 4.2	196 280 364	0,007 0,012 0,017 x d _F	196 280 364	0,007 0,012 0,017 x d _F
MoSys	N 4.3	105 150 195	0,007 0,012 0,017 x d _F	105 150 195	0,007 0,012 0,017 x d _F
MoSys	N 4.4	105 150 195	0,007 0,012 0,017 x d _F	105 150 195	0,007 0,012 0,017 x d _F
MoSys	N 5.1	105 150 195	0,007 0,012 0,017 x d _F	105 150 195	0,007 0,012 0,017 x d _F
MoSys	N 5.2	35 50 65	0,004 0,007 0,010 x d _F	35 50 65	0,004 0,007 0,010 x d _F
MoSys	N 5.3	105 150 195	0,007 0,012 0,017 x d _F	105 150 195	0,007 0,012 0,017 x d _F
S	S 1.1		42 60 78	0,004 0,006 0,008 x d _F	
S	S 1.2		42 60 78	0,004 0,006 0,008 x d _F	
S	S 1.3		35 50 65	0,002 0,004 0,006 x d _F	
S	S 2.1		32 45 59	0,002 0,004 0,006 x d _F	
S	S 2.2		32 45 59	0,002 0,004 0,006 x d _F	
S	S 2.3		21 30 39	0,002 0,004 0,006 x d _F	
S	S 2.4		32 45 59	0,002 0,004 0,006 x d _F	
S	S 2.5		21 30 39	0,002 0,004 0,006 x d _F	
S	S 2.6		21 30 39	0,002 0,004 0,006 x d _F	
H	H 1.1			42 60 78	0,004 0,007 0,010 x d _F
H	H 1.2			35 50 65	0,004 0,006 0,008 x d _F
H	H 1.3			32 45 59	0,003 0,005 0,007 x d _F
H	H 1.4			21 30 39	0,002 0,004 0,006 x d _F
H	H 1.5			18 25 33	0,002 0,003 0,004 x d _F



GSF

GSF-R30

GSF-Z

Unbeschichtet
Uncoated

TICN

Unbeschichtet
Uncoated

TICN

Unbeschichtet
Uncoated

TICN

v_c [m/min]min. empf.
rec.

max.

f_z [mm]
min. empf.
rec. max.

1.1

2.1

P

1.1

2.1

K

1.1

1.2

2.1

2.2

3.1

3.2

4.1

4.2

M

1.1

1.2

2.1

2.2

2.3

2.4

2.5

2.6

2.7

2.8

N

3.1

3.2

4.1

4.2

4.3

4.4

S

5.1

5.2

5.3

1.1

1.2

1.3

1.4

1.5

H

Product Finder		GF		GF-R30		GF-R30-Long			
v _c / f _z									
M									
MF									
UNC UN, UNS									
UNF UNEF									
G, Rp									
NPT, NPTF Rc, W									
BSW, BSF									
Pg									
MJ UNJC, UNJF									
EG (STI)									
SELF-LOCK									
Tr									
Zubehör Accessories									
BGF									
ZBGF									
M									
GSF									
GF									
GF-VZ									
GF-KEG									
ZGF									
ZIRK-GF									
Gigant									
MoSys									
N									
S									
H									



GF-Z		GF-Z-Extern	GF-Vario-Z	GF-Vario-Z-AZR1			
Unbeschichtet Uncoated	TICN	TIALN-86	TIALN-86	TIALN-86			
v _c [m/min] min. empf. rec. max.	f _z [mm] min. empf. rec. max.						
63 90 117	126 180 234	126 180 234	126 180 234	126 180 234	0,006 0,010 0,014 x d _F	1.1	
53 75 98	105 150 195	105 150 195	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	2.1	
42 60 78	84 120 156	84 120 156	84 120 156	84 120 156	0,005 0,008 0,011 x d _F	3.1	P
35 50 65	70 100 130	70 100 130	70 100 130	70 100 130	0,004 0,007 0,010 x d _F	4.1	
28 40 52	56 80 104	56 80 104	56 80 104	56 80 104	0,004 0,006 0,008 x d _F	5.1	
63 90 117	63 90 117	63 90 117	63 90 117	63 90 117	0,005 0,008 0,011 x d _F	1.1	M
63 90 117	63 90 117	63 90 117	63 90 117	63 90 117	0,005 0,008 0,011 x d _F	2.1	
42 60 78	42 60 78	42 60 78	42 60 78	42 60 78	0,004 0,007 0,010 x d _F	3.1	
35 50 65	35 50 65	35 50 65	35 50 65	35 50 65	0,004 0,006 0,008 x d _F	4.1	
70 100 130	112 160 208	112 160 208	112 160 208	112 160 208	0,005 0,009 0,013 x d _F	1.1	
70 100 130	112 160 208	112 160 208	112 160 208	112 160 208	0,005 0,009 0,013 x d _F	1.2	
63 90 117	105 150 195	105 150 195	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	2.1	
63 90 117	105 150 195	105 150 195	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	2.2	K
63 90 117	105 150 195	105 150 195	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	3.1	
63 90 117	105 150 195	105 150 195	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	3.2	
63 90 117	105 150 195	105 150 195	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	4.1	
63 90 117	105 150 195	105 150 195	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	4.2	
126 180 234	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	1.1	
126 180 234	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	1.2	
126 180 234	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	1.3	
126 180 234	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	1.4	
126 180 234	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	1.5	
105 150 195	105 150 195	105 150 195	105 150 195	105 150 195	0,007 0,012 0,017 x d _F	1.6	
126 180 234	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	2.1	
126 180 234	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	2.2	
126 180 234	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	2.3	
77 110 143	126 180 234	126 180 234	126 180 234	126 180 234	0,006 0,010 0,014 x d _F	2.4	
77 110 143	126 180 234	126 180 234	126 180 234	126 180 234	0,006 0,010 0,014 x d _F	2.5	
105 150 195	126 180 234	126 180 234	126 180 234	126 180 234	0,006 0,010 0,014 x d _F	2.6	
42 60 78	42 60 78	42 60 78	42 60 78	42 60 78	0,005 0,008 0,011 x d _F	2.7	
35 50 65	35 50 65	35 50 65	35 50 65	35 50 65	0,005 0,008 0,011 x d _F	2.8	
126 180 234	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	3.1	
126 180 234	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	3.2	
77 110 143	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	4.1	
77 110 143	196 280 364	196 280 364	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	4.2	
105 150 195	105 150 195	105 150 195	105 150 195	105 150 195	0,007 0,012 0,017 x d _F	4.3	
105 150 195	105 150 195	105 150 195	105 150 195	105 150 195	0,007 0,012 0,017 x d _F	4.4	
70 100 130	105 150 195	105 150 195	105 150 195	105 150 195	0,007 0,012 0,017 x d _F	5.1	
21 30 39	35 50 65	35 50 65	35 50 65	35 50 65	0,004 0,007 0,010 x d _F	5.2	
	105 150 195	105 150 195	105 150 195	105 150 195	0,007 0,012 0,017 x d _F	5.3	
28 40 52	42 60 78	42 60 78	42 60 78	42 60 78	0,004 0,006 0,008 x d _F	1.1	S
28 40 52	42 60 78	42 60 78	42 60 78	42 60 78	0,004 0,006 0,008 x d _F	1.2	
21 30 39	35 50 65	35 50 65	35 50 65	35 50 65	0,002 0,004 0,006 x d _F	1.3	
32 45 59	32 45 59	32 45 59	32 45 59	32 45 59	0,002 0,004 0,006 x d _F	2.1	
32 45 59	32 45 59	32 45 59	32 45 59	32 45 59	0,002 0,004 0,006 x d _F	2.2	
21 30 39	21 30 39	21 30 39	21 30 39	21 30 39	0,002 0,004 0,006 x d _F	2.3	
32 45 59	32 45 59	32 45 59	32 45 59	32 45 59	0,002 0,004 0,006 x d _F	2.4	
21 30 39	21 30 39	21 30 39	21 30 39	21 30 39	0,002 0,004 0,006 x d _F	2.5	
21 30 39	21 30 39	21 30 39	21 30 39	21 30 39	0,002 0,004 0,006 x d _F	2.6	
32 45 59	32 45 59	32 45 59	32 45 59	32 45 59	0,002 0,004 0,006 x d _F	1.1	H
28 40 52	28 40 52	28 40 52	28 40 52	28 40 52	0,002 0,004 0,006 x d _F	1.2	
						1.3	
						1.4	
						1.5	

Product Finder		GF-KEG		GF-KEG-R15-Long			
v _c / f _z							
M							
MF							
UNC UN, UNS							
UNF UNEF							
G, Rp							
NPT, NPTF Rc, W							
BSW, BSF							
Pg							
MJ UNJC, UNJF							
EG (STI)							
SELF-LOCK							
Tr	P						
Zubehör Accessories							
BGF							
ZBGF	M	1.1	63 90 117	126 180 234	63 90 117	126 180 234	0,006 0,010 0,014 x d _F
ZBGF	M	2.1	53 75 98	105 150 195	53 75 98	105 150 195	0,005 0,009 0,013 x d _F
GSF		3.1	42 60 78	84 120 156	42 60 78	84 120 156	0,005 0,008 0,011 x d _F
GF		4.1	35 50 65	70 100 130	35 50 65	70 100 130	0,004 0,007 0,010 x d _F
GF-VZ	K	5.1	28 40 52	56 80 104	28 40 52	56 80 104	0,004 0,006 0,008 x d _F
GF-KEG							
ZGF							
ZIRK-GF		1.1	126 180 234	196 280 364	126 180 234	196 280 364	0,007 0,012 0,017 x d _F
Gigant		1.2	126 180 234	196 280 364	126 180 234	196 280 364	0,007 0,012 0,017 x d _F
MoSys		1.3	126 180 234	196 280 364	126 180 234	196 280 364	0,007 0,012 0,017 x d _F
		1.4	126 180 234	196 280 364	126 180 234	196 280 364	0,007 0,012 0,017 x d _F
		1.5	126 180 234	196 280 364	126 180 234	196 280 364	0,007 0,012 0,017 x d _F
		1.6		105 150 195		105 150 195	0,007 0,012 0,017 x d _F
	N	2.1	126 180 234	196 280 364	126 180 234	196 280 364	0,007 0,012 0,017 x d _F
		2.2	126 180 234	196 280 364	126 180 234	196 280 364	0,007 0,012 0,017 x d _F
		2.3	126 180 234	196 280 364	126 180 234	196 280 364	0,007 0,012 0,017 x d _F
		2.4	77 110 143	126 180 234	77 110 143	126 180 234	0,006 0,010 0,014 x d _F
		2.5	77 110 143	126 180 234	77 110 143	126 180 234	0,006 0,010 0,014 x d _F
		2.6	105 150 195	126 180 234	105 150 195	126 180 234	0,006 0,010 0,014 x d _F
		2.7	42 60 78		42 60 78	0,005 0,008 0,011 x d _F	
		2.8	35 50 65		35 50 65	0,005 0,008 0,011 x d _F	
		3.1	126 180 234	196 280 364	126 180 234	196 280 364	0,007 0,012 0,017 x d _F
		3.2	126 180 234	196 280 364	126 180 234	196 280 364	0,007 0,012 0,017 x d _F
		4.1	77 110 143	196 280 364	77 110 143	196 280 364	0,007 0,012 0,017 x d _F
		4.2	77 110 143	196 280 364	77 110 143	196 280 364	0,007 0,012 0,017 x d _F
		4.3		105 150 195		105 150 195	0,007 0,012 0,017 x d _F
		4.4		105 150 195		105 150 195	0,007 0,012 0,017 x d _F
		5.1	70 100 130	105 150 195	70 100 130	105 150 195	0,007 0,012 0,017 x d _F
		5.2	21 30 39	35 50 65	21 30 39	35 50 65	0,004 0,007 0,010 x d _F
		5.3		105 150 195		105 150 195	0,007 0,012 0,017 x d _F
	S	1.1	28 40 52	42 60 78	28 40 52	42 60 78	0,004 0,006 0,008 x d _F
		1.2	28 40 52	42 60 78	28 40 52	42 60 78	0,004 0,006 0,008 x d _F
		1.3	21 30 39	35 50 65	21 30 39	35 50 65	0,002 0,004 0,006 x d _F
		2.1		32 45 59		32 45 59	0,002 0,004 0,006 x d _F
		2.2		32 45 59		32 45 59	0,002 0,004 0,006 x d _F
		2.3		21 30 39		21 30 39	0,002 0,004 0,006 x d _F
		2.4		32 45 59		32 45 59	0,002 0,004 0,006 x d _F
		2.5		21 30 39		21 30 39	0,002 0,004 0,006 x d _F
		2.6		21 30 39		21 30 39	0,002 0,004 0,006 x d _F
	H	1.1		32 45 59		32 45 59	0,002 0,004 0,006 x d _F
		1.2		28 40 52		28 40 52	0,002 0,004 0,006 x d _F
		1.3					
		1.4					
		1.5					



ZGF

ZGF-Z

Unbeschichtet
Uncoated

TICN

TiCN

v _c [m/min] min. empf. rec. max.	v _c [m/min] min. empf. rec. max.	v _c [m/min] min. empf. rec. max.	f _z [mm] min. empf. rec. max.	
63 90 117	126 180 234	126 180 234	0,006 0,010 0,014 x d _F	1.1
53 75 98	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	2.1
42 60 78	84 120 156	84 120 156	0,005 0,008 0,011 x d _F	3.1
35 50 65	70 100 130	70 100 130	0,004 0,007 0,010 x d _F	4.1
28 40 52	56 80 104	56 80 104	0,004 0,006 0,008 x d _F	5.1
63 90 117	63 90 117	63 90 117	0,005 0,008 0,011 x d _F	1.1
63 90 117	63 90 117	63 90 117	0,005 0,008 0,011 x d _F	2.1
42 60 78	42 60 78	42 60 78	0,004 0,007 0,010 x d _F	3.1
35 50 65	35 50 65	35 50 65	0,004 0,006 0,008 x d _F	4.1
70 100 130	112 160 208	112 160 208	0,005 0,009 0,013 x d _F	1.1
70 100 130	112 160 208	112 160 208	0,005 0,009 0,013 x d _F	1.2
63 90 117	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	2.1
63 90 117	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	2.2
63 90 117	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	3.1
63 90 117	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	3.2
63 90 117	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	4.1
63 90 117	105 150 195	105 150 195	0,005 0,009 0,013 x d _F	4.2
126 180 234	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	1.1
126 180 234	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	1.2
126 180 234	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	1.3
126 180 234	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	1.4
126 180 234	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	1.5
105 150 195	105 150 195	105 150 195	0,007 0,012 0,017 x d _F	1.6
126 180 234	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	2.1
126 180 234	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	2.2
126 180 234	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	2.3
77 110 143	126 180 234	126 180 234	0,006 0,010 0,014 x d _F	2.4
77 110 143	126 180 234	126 180 234	0,006 0,010 0,014 x d _F	2.5
105 150 195	126 180 234	126 180 234	0,006 0,010 0,014 x d _F	2.6
42 60 78	42 60 78	42 60 78	0,005 0,008 0,011 x d _F	2.7
35 50 65	35 50 65	35 50 65	0,005 0,008 0,011 x d _F	2.8
126 180 234	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	3.1
126 180 234	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	3.2
77 110 143	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	4.1
77 110 143	196 280 364	196 280 364	0,007 0,012 0,017 x d _F	4.2
105 150 195	105 150 195	105 150 195	0,007 0,012 0,017 x d _F	4.3
105 150 195	105 150 195	105 150 195	0,007 0,012 0,017 x d _F	4.4
70 100 130	105 150 195	105 150 195	0,007 0,012 0,017 x d _F	5.1
21 30 39	35 50 65	35 50 65	0,004 0,007 0,010 x d _F	5.2
21 30 39	105 150 195	105 150 195	0,007 0,012 0,017 x d _F	5.3
28 40 52	42 60 78	42 60 78	0,004 0,006 0,008 x d _F	1.1
28 40 52	42 60 78	42 60 78	0,004 0,006 0,008 x d _F	1.2
21 30 39	35 50 65	35 50 65	0,002 0,004 0,006 x d _F	1.3
32 45 59	32 45 59	32 45 59	0,002 0,004 0,006 x d _F	2.1
32 45 59	32 45 59	32 45 59	0,002 0,004 0,006 x d _F	2.2
21 30 39	21 30 39	21 30 39	0,002 0,004 0,006 x d _F	2.3
32 45 59	32 45 59	32 45 59	0,002 0,004 0,006 x d _F	2.4
21 30 39	21 30 39	21 30 39	0,002 0,004 0,006 x d _F	2.5
21 30 39	21 30 39	21 30 39	0,002 0,004 0,006 x d _F	2.6
32 45 59	32 45 59	32 45 59	0,002 0,004 0,006 x d _F	1.1
28 40 52	28 40 52	28 40 52	0,002 0,004 0,006 x d _F	1.2
				1.3
				1.4
				1.5

ZGF-S-CUT

ZGF-HCUT

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

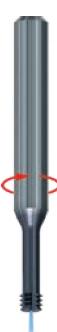
NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

TIALN-T46



TIALN-T46

		v _c [m/min] min. empf. rec. max.	f _z [mm] min. empf. rec. max.	v _c [m/min] min. empf. rec. max.	f _z [mm] min. empf. rec. max.
EG (STI)	1.1	126 180 234	0,006 0,010 0,014 x d _F		
SELF-LOCK	2.1	105 150 195	0,005 0,009 0,013 x d _F		
Tr	3.1	84 120 156	0,005 0,008 0,011 x d _F		
Zubehör Accessories	4.1	70 100 130	0,004 0,007 0,010 x d _F		
BGF	5.1	56 80 104	0,004 0,006 0,008 x d _F		
ZBGF	M 1.1	63 90 117	0,005 0,008 0,011 x d _F		
ZBGF	M 2.1	63 90 117	0,005 0,008 0,011 x d _F		
GSF	M 3.1	42 60 78	0,004 0,007 0,010 x d _F		
GSF	M 4.1	35 50 65	0,004 0,006 0,008 x d _F		
GF	K 1.1	112 160 208	0,005 0,009 0,013 x d _F		
GF-VZ	K 1.2	112 160 208	0,005 0,009 0,013 x d _F		
GF-VZ	K 2.1	105 150 195	0,005 0,009 0,013 x d _F		
GF-KEG	K 2.2	105 150 195	0,005 0,009 0,013 x d _F		
GF-KEG	K 3.1	105 150 195	0,005 0,009 0,013 x d _F		
GF-KEG	K 3.2	105 150 195	0,005 0,009 0,013 x d _F		
ZGF	K 4.1	105 150 195	0,005 0,009 0,013 x d _F		
ZGF	K 4.2	105 150 195	0,005 0,009 0,013 x d _F		
ZIRK-GF	N 1.1	196 280 364	0,007 0,012 0,017 x d _F		
ZIRK-GF	N 1.2	196 280 364	0,007 0,012 0,017 x d _F		
Gigant	N 1.3	196 280 364	0,007 0,012 0,017 x d _F		
Gigant	N 1.4	196 280 364	0,007 0,012 0,017 x d _F		
MoSys	N 1.5	196 280 364	0,007 0,012 0,017 x d _F		
MoSys	N 1.6	105 150 195	0,007 0,012 0,017 x d _F		
	N 2.1	196 280 364	0,007 0,012 0,017 x d _F		
	N 2.2	196 280 364	0,007 0,012 0,017 x d _F		
	N 2.3	196 280 364	0,007 0,012 0,017 x d _F		
	N 2.4	126 180 234	0,006 0,010 0,014 x d _F		
	N 2.5	126 180 234	0,006 0,010 0,014 x d _F		
	N 2.6	126 180 234	0,006 0,010 0,014 x d _F		
	N 2.7	42 60 78	0,005 0,008 0,011 x d _F	35 50 65	0,002 0,004 0,006 x d _F
	N 2.8	35 50 65	0,005 0,008 0,011 x d _F	35 50 65	0,002 0,004 0,006 x d _F
	N 3.1	196 280 364	0,007 0,012 0,017 x d _F		
	N 3.2	196 280 364	0,007 0,012 0,017 x d _F		
	N 4.1	196 280 364	0,007 0,012 0,017 x d _F		
	N 4.2	196 280 364	0,007 0,012 0,017 x d _F		
	N 4.3	105 150 195	0,007 0,012 0,017 x d _F		
	N 4.4	105 150 195	0,007 0,012 0,017 x d _F		
	N 5.1	105 150 195	0,007 0,012 0,017 x d _F		
	N 5.2	35 50 65	0,004 0,007 0,010 x d _F		
	N 5.3	105 150 195	0,007 0,012 0,017 x d _F		
	S 1.1	42 60 78	0,004 0,006 0,008 x d _F		
	S 1.2	42 60 78	0,004 0,006 0,008 x d _F		
	S 1.3	35 50 65	0,002 0,004 0,006 x d _F		
	S 2.1	32 45 59	0,002 0,004 0,006 x d _F		
	S 2.2	32 45 59	0,002 0,004 0,006 x d _F		
	S 2.3	21 30 39	0,002 0,004 0,006 x d _F		
	S 2.4	32 45 59	0,002 0,004 0,006 x d _F		
	S 2.5	21 30 39	0,002 0,004 0,006 x d _F		
	S 2.6	21 30 39	0,002 0,004 0,006 x d _F		
	H 1.1	32 45 59	0,002 0,004 0,006 x d _F	42 60 78	0,004 0,007 0,010 x d _F
	H 1.2	28 40 52	0,002 0,004 0,006 x d _F	35 50 65	0,004 0,006 0,008 x d _F
	H 1.3			32 45 59	0,003 0,005 0,007 x d _F
	H 1.4			21 30 39	0,002 0,004 0,006 x d _F
	H 1.5			18 25 33	0,002 0,003 0,004 x d _F



ZIRK-GF (MZP)

ZIRK-GF (3ZP)

ZIRK-GF (SWP)



TIALN-T4

TIALN-T4

ALCR-T42

v _c [m/min]	f _z [mm]	v _c [m/min]	f _z [mm]	v _c [m/min]	f _z [mm]	
min. empf. rec.	max.	min. empf. rec.	max.	min. empf. rec.	max.	
126 180 234	0,066 0,110 0,165	126 180 234	0,066 0,110 0,165	126 180 234	0,006 0,010 0,014 x d _F	1.1
105 150 195	0,060 0,100 0,150	105 150 195	0,060 0,100 0,150	105 150 195	0,005 0,009 0,013 x d _F	2.1
84 120 156	0,054 0,090 0,135	84 120 156	0,054 0,090 0,135	84 120 156	0,005 0,008 0,011 x d _F	3.1
70 100 130	0,048 0,080 0,120	70 100 130	0,048 0,080 0,120	70 100 130	0,004 0,007 0,010 x d _F	4.1
56 80 104	0,042 0,070 0,105	56 80 104	0,042 0,070 0,105	56 80 104	0,004 0,006 0,008 x d _F	5.1
63 90 117	0,048 0,080 0,120	63 90 117	0,048 0,080 0,120	63 90 117	0,005 0,008 0,011 x d _F	1.1
63 90 117	0,048 0,080 0,120	63 90 117	0,048 0,080 0,120	63 90 117	0,005 0,008 0,011 x d _F	2.1
42 60 78	0,042 0,070 0,105	42 60 78	0,042 0,070 0,105	42 60 78	0,004 0,007 0,010 x d _F	3.1
35 50 65	0,036 0,060 0,090	35 50 65	0,036 0,060 0,090	35 50 65	0,004 0,006 0,008 x d _F	4.1
112 160 208	0,060 0,100 0,150	112 160 208	0,060 0,100 0,150	112 160 208	0,005 0,009 0,013 x d _F	1.1
112 160 208	0,060 0,100 0,150	112 160 208	0,060 0,100 0,150	112 160 208	0,005 0,009 0,013 x d _F	1.2
105 150 195	0,060 0,100 0,150	105 150 195	0,060 0,100 0,150	105 150 195	0,005 0,009 0,013 x d _F	2.1
105 150 195	0,060 0,100 0,150	105 150 195	0,060 0,100 0,150	105 150 195	0,005 0,009 0,013 x d _F	2.2
105 150 195	0,060 0,100 0,150	105 150 195	0,060 0,100 0,150	105 150 195	0,005 0,009 0,013 x d _F	3.1
105 150 195	0,060 0,100 0,150	105 150 195	0,060 0,100 0,150	105 150 195	0,005 0,009 0,013 x d _F	3.2
105 150 195	0,060 0,100 0,150	105 150 195	0,060 0,100 0,150	105 150 195	0,005 0,009 0,013 x d _F	4.1
105 150 195	0,060 0,100 0,150	105 150 195	0,060 0,100 0,150	105 150 195	0,005 0,009 0,013 x d _F	4.2
196 280 364	0,072 0,120 0,180	196 280 364	0,072 0,120 0,180	196 280 364	0,007 0,012 0,017 x d _F	1.1
196 280 364	0,072 0,120 0,180	196 280 364	0,072 0,120 0,180	196 280 364	0,007 0,012 0,017 x d _F	1.2
196 280 364	0,072 0,120 0,180	196 280 364	0,072 0,120 0,180	196 280 364	0,007 0,012 0,017 x d _F	1.3
196 280 364	0,072 0,120 0,180	196 280 364	0,072 0,120 0,180	196 280 364	0,007 0,012 0,017 x d _F	1.4
196 280 364	0,072 0,120 0,180	196 280 364	0,072 0,120 0,180	196 280 364	0,007 0,012 0,017 x d _F	1.5
105 150 195	0,072 0,120 0,180	105 150 195	0,072 0,120 0,180	105 150 195	0,007 0,012 0,017 x d _F	1.6
196 280 364	0,072 0,120 0,180	196 280 364	0,072 0,120 0,180	196 280 364	0,007 0,012 0,017 x d _F	2.1
196 280 364	0,072 0,120 0,180	196 280 364	0,072 0,120 0,180	196 280 364	0,007 0,012 0,017 x d _F	2.2
196 280 364	0,072 0,120 0,180	196 280 364	0,072 0,120 0,180	196 280 364	0,007 0,012 0,017 x d _F	2.3
126 180 234	0,060 0,100 0,150	126 180 234	0,060 0,100 0,150	126 180 234	0,006 0,010 0,014 x d _F	2.4
126 180 234	0,060 0,100 0,150	126 180 234	0,060 0,100 0,150	126 180 234	0,006 0,010 0,014 x d _F	2.5
42 60 78	0,048 0,080 0,120	42 60 78	0,048 0,080 0,120	42 60 78	0,005 0,008 0,011 x d _F	2.6
35 50 65	0,048 0,080 0,120	35 50 65	0,048 0,080 0,120	35 50 65	0,005 0,008 0,011 x d _F	2.8
196 280 364	0,072 0,120 0,180	196 280 364	0,072 0,120 0,180	196 280 364	0,007 0,012 0,017 x d _F	3.1
196 280 364	0,072 0,120 0,180	196 280 364	0,072 0,120 0,180	196 280 364	0,007 0,012 0,017 x d _F	3.2
196 280 364	0,078 0,130 0,195	196 280 364	0,078 0,130 0,195	196 280 364	0,007 0,012 0,017 x d _F	4.1
196 280 364	0,078 0,130 0,195	196 280 364	0,078 0,130 0,195	196 280 364	0,007 0,012 0,017 x d _F	4.2
105 150 195	0,078 0,130 0,195	105 150 195	0,078 0,130 0,195	105 150 195	0,007 0,012 0,017 x d _F	4.3
105 150 195	0,078 0,130 0,195	105 150 195	0,078 0,130 0,195	105 150 195	0,007 0,012 0,017 x d _F	4.4
105 150 195	0,078 0,130 0,195	105 150 195	0,078 0,130 0,195	105 150 195	0,007 0,012 0,017 x d _F	5.1
35 50 65	0,036 0,060 0,090	35 50 65	0,036 0,060 0,090	35 50 65	0,004 0,007 0,010 x d _F	5.2
105 150 195	0,078 0,130 0,195	105 150 195	0,078 0,130 0,195	105 150 195	0,007 0,012 0,017 x d _F	5.3
42 60 78	0,036 0,060 0,090	42 60 78	0,036 0,060 0,090	42 60 78	0,004 0,006 0,008 x d _F	1.1
42 60 78	0,036 0,060 0,090	42 60 78	0,036 0,060 0,090	42 60 78	0,004 0,006 0,008 x d _F	1.2
35 50 65	0,030 0,050 0,075	35 50 65	0,030 0,050 0,075	35 50 65	0,002 0,004 0,006 x d _F	1.3
32 45 59	0,030 0,050 0,075	32 45 59	0,030 0,050 0,075	32 45 59	0,002 0,004 0,006 x d _F	2.1
32 45 59	0,030 0,050 0,075	32 45 59	0,030 0,050 0,075	32 45 59	0,002 0,004 0,006 x d _F	2.2
21 30 39	0,030 0,050 0,075	21 30 39	0,030 0,050 0,075	21 30 39	0,002 0,004 0,006 x d _F	2.3
32 45 59	0,030 0,050 0,075	32 45 59	0,030 0,050 0,075	32 45 59	0,002 0,004 0,006 x d _F	2.4
21 30 39	0,030 0,050 0,075	21 30 39	0,030 0,050 0,075	21 30 39	0,002 0,004 0,006 x d _F	2.5
21 30 39	0,030 0,050 0,075	21 30 39	0,030 0,050 0,075	21 30 39	0,002 0,004 0,006 x d _F	2.6
32 45 59	0,030 0,050 0,075	32 45 59	0,030 0,050 0,075			1.1
28 40 52	0,030 0,050 0,075	28 40 52	0,030 0,050 0,075			1.2
						1.3
						1.4
						1.5

Product Finder			
v _c / f _z			
M			
MF			
UNC UN, UNS			
UNF UNEF			
G, Rp			
NPT, NPTF Rc, W			
BSW, BSF			
Pg			
MJ UNJC, UNJF			
EG (STI)	1.1	v _c [m/min] min. empf. rec. max.	f _z [mm] min. empf. rec. max.
SELF-LOCK	2.1	231 330 495	0,140 0,200 0,260
Tr	P 3.1	210 300 450	0,126 0,180 0,234
Zubehör Accessories	4.1	140 200 300	0,112 0,160 0,208
BGF	5.1	119 170 255	0,098 0,140 0,182
ZBGF	M 1.1	105 150 225	0,084 0,120 0,156
GSF	2.1	70 100 150	0,084 0,120 0,156
GF	3.1	70 100 150	0,070 0,100 0,130
GF-VZ	K 4.1	56 80 120	0,063 0,090 0,117
GF-KEG	2.2	49 70 105	
ZGF	3.2	189 270 405	0,140 0,200 0,260
ZIRK-GF	4.1	189 270 405	0,140 0,200 0,260
Gigant	K 4.2	175 250 375	0,140 0,200 0,260
MoSys	1.1	175 250 375	0,140 0,200 0,260
	1.2	175 250 375	0,140 0,200 0,260
	1.3	175 250 375	0,140 0,200 0,260
	1.4	175 250 375	0,140 0,200 0,260
	1.5	175 250 375	0,140 0,200 0,260
	1.6	119 170 255	0,140 0,200 0,260
	2.1	231 330 495	0,161 0,230 0,299
	2.2	231 330 495	0,161 0,230 0,299
	2.3	231 330 495	0,161 0,230 0,299
	2.4	119 170 255	0,161 0,230 0,299
	2.5	119 170 255	0,161 0,230 0,299
	2.6	119 170 255	0,161 0,230 0,299
	2.7	70 100 150	0,161 0,230 0,299
	2.8	70 100 150	0,161 0,230 0,299
	3.1	231 330 495	0,161 0,230 0,299
	3.2	231 330 495	0,161 0,230 0,299
	4.1	189 270 405	0,140 0,200 0,260
	4.2	189 270 405	0,140 0,200 0,260
	4.3	84 120 180	0,140 0,200 0,260
	4.4	84 120 180	0,140 0,200 0,260
	5.1	42 60 90	0,084 0,120 0,156
	5.2	42 60 90	0,084 0,120 0,156
	5.3	35 50 75	0,084 0,120 0,156
	1.1	56 80 120	0,070 0,100 0,130
	1.2	56 80 120	0,070 0,100 0,130
	1.3	49 70 105	0,056 0,080 0,104
	2.1	42 60 90	0,056 0,080 0,104
	2.2	42 60 90	0,056 0,080 0,104
	2.3	32 45 68	0,056 0,080 0,104
	2.4	42 60 90	0,056 0,080 0,104
	2.5	32 45 68	0,056 0,080 0,104
	2.6	32 45 68	0,056 0,080 0,104
	1.1	35 50 75	0,056 0,080 0,104
	1.2	32 45 68	0,056 0,080 0,104
	1.3		
	1.4		
	1.5		



BGF-Z2



BGF-Z3



BGF-Z4



Seite · Page

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M

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MF

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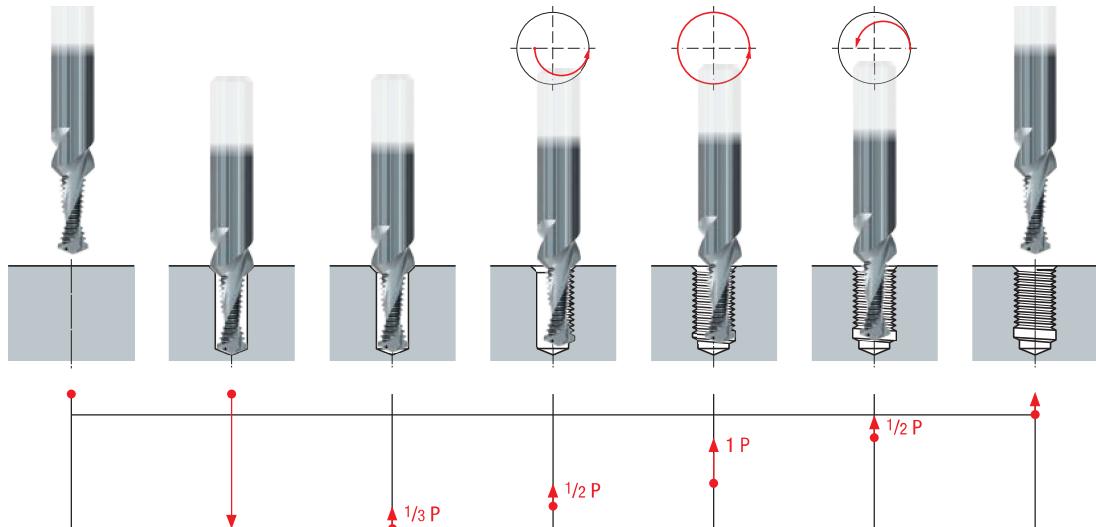
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UNC**UNF****G (BSP)****EG M (STI)**

Mögliche Modifikationen siehe Seite 356 - 357

Possible modifications, see pages 356 - 357

Gewindefräsyklus · Thread milling cycle

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

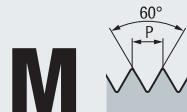
Pg

MJ
UNJC, UNJF

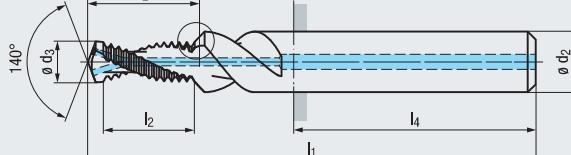
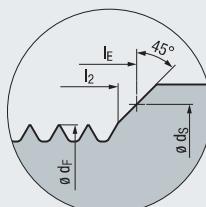
EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

DIN 13

VHM
Carbide

R30

RH + LH

Z2

DIN 6535



BGF-Z2

Einsatzgebiete – Material
Applications – material

» 358

K	1.1-3.2	N	1.1-1.5
N	2.2-2.3, 2.6	N	3.1-4.1

1,5 x d₁BGF-Z2
1,5xd₁
R30-IKZ-HABGF-Z2
1,5xd₁
R30-IKZ-HB

	Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E (Flutes)	Z
BGF	M 4	0,7	3,16	6	3,3	4,2	49	5,6	36	7,4	2
	5	0,8	4,04	6	4,2	5,3	55	7,2	36	9,4	2
	6	1	4,8	8	5	6,3	62	9,1	36	11,7	2
ZBGF	8	1,25	6,5	10	6,75	8,4	74	11,3	40	14,7	2
	10	1,5	8,2	12	8,5	10,5	79	15,1	45	19,3	2
GSF	12	1,75	9,9	14	10,25	12,6	89	17,6	45	22,5	2
	14	2	11,6	16	12	14,7	102	20,1	48	25,8	2
GF	16	2	13,6	18	14	16,8	102	24,1	48	30,3	2

GF-VZ

GF-KEG

ZGF

Gewindetiefe

Thread depth

ZIRK-GF

Gigant

MoSys

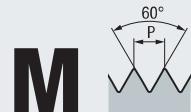
	Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E (Flutes)	Z
GF	M 4	0,7	3,16	6	3,3	4,2	49	7,7	36	9,5	2
	5	0,8	4,04	6	4,2	5,3	55	9,6	36	11,8	2
	6	1	4,8	8	5	6,3	62	12,1	36	14,7	2
	8	1,25	6,5	10	6,75	8,4	74	15,1	40	18,5	2
	10	1,5	8,2	12	8,5	10,5	79	19,6	45	23,8	2
	12	1,75	9,9	14	10,25	12,6	89	22,9	45	27,8	2
	14	2	11,6	16	12	14,7	102	28,1	48	33,8	2
	16	2	13,6	18	14	16,8	102	32,1	48	38,3	2

Gewindetiefe

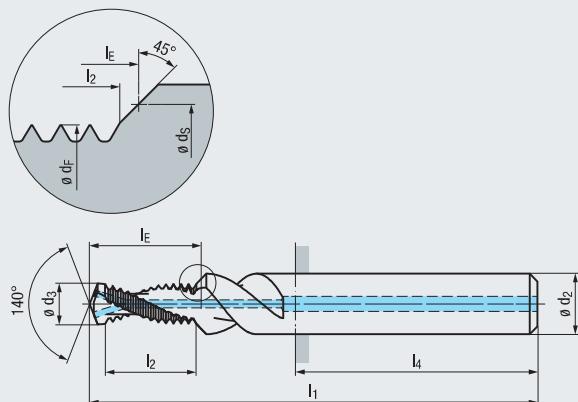
Thread depth

	Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E (Flutes)	Z
GF	M 6	1	4,8	8	5	6,3	65	15,1	36	17,7	2
	8	1,25	6,5	10	6,75	8,4	80	20,1	40	23,5	2
	10	1,5	8,2	12	8,5	10,5	85	25,6	45	29,8	2
	12	1,75	9,9	14	10,25	12,6	95	29,9	45	34,8	2

2,5 x d₁BGF-Z2
2,5xd₁
R30-IKZ-HABGF-Z2
2,5xd₁
R30-IKZ-HBWeitere Ausführungen auf Anfrage
Further designs upon request



DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R30	RH + LH
Z2	DIN 6535
	HA HB
	90°
	Ø d1
	Ø d2

BGF-Z2

K 1.1-3.2
N 1.1-1.6
N 2.2-2.3, 2.6
N 3.1-4.1

1,5 x d1

BGF-Z2
1,5xd1
R30-IKZ-HA
TiCNBGF-Z2
1,5xd1
R30-IKZ-HB
TiCN

Ø d1 mm	P mm	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
M 4	0,7	3,16	6	3,3	4,2	49	5,6	36	7,4	2
5	0,8	4,04	6	4,2	5,3	55	7,2	36	9,4	2
6	1	4,8	8	5	6,3	62	9,1	36	11,7	2
8	1,25	6,5	10	6,75	8,4	74	11,3	40	14,7	2
10	1,5	8,2	12	8,5	10,5	79	15,1	45	19,3	2
12	1,75	9,9	14	10,25	12,6	89	17,6	45	22,5	2
14	2	11,6	16	12	14,7	102	20,1	48	25,8	2
16	2	13,6	18	14	16,8	102	24,1	48	30,3	2

Gewindetiefe
Thread depth

2 x d1

BGF-Z2
2xd1
R30-IKZ-HA
TiCNBGF-Z2
2xd1
R30-IKZ-HB
TiCN

Ø d1 mm	P mm	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
M 4	0,7	3,16	6	3,3	4,2	49	7,7	36	9,5	2
5	0,8	4,04	6	4,2	5,3	55	9,6	36	11,8	2
6	1	4,8	8	5	6,3	62	12,1	36	14,7	2
8	1,25	6,5	10	6,75	8,4	74	15,1	40	18,5	2
10	1,5	8,2	12	8,5	10,5	79	19,6	45	23,8	2
12	1,75	9,9	14	10,25	12,6	89	22,9	45	27,8	2
14	2	11,6	16	12	14,7	102	28,1	48	33,8	2
16	2	13,6	18	14	16,8	102	32,1	48	38,3	2

Gewindetiefe
Thread depth

2,5 x d1

BGF-Z2
2,5xd1
R30-IKZ-HA
TiCNBGF-Z2
2,5xd1
R30-IKZ-HB
TiCN

Ø d1 mm	P mm	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
M 6	1	4,8	8	5	6,3	65	15,1	36	17,7	2
8	1,25	6,5	10	6,75	8,4	80	20,1	40	23,5	2
10	1,5	8,2	12	8,5	10,5	85	25,6	45	29,8	2
12	1,75	9,9	14	10,25	12,6	95	29,9	45	34,8	2

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_z

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

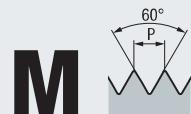
ZGF

ZIRK-GF

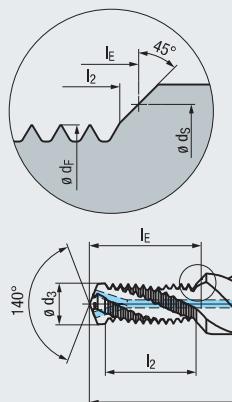
Gigant

MoSys





DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R30	RH + LH
Z3	DIN 6535 HA HB
	90°
	Ø d1
	140°
	Ø d3
	Ø d2
	Ø dS
	P

BGF-Z3



K 1.1-1.2

N 1.5-1.6, 2.3

1,5 x d1

BGF-Z3
1,5xd1
R30-IKZ-HA
TiCNBGF-Z3
1,5xd1
R30-IKZ-HB
TiCN

Ø d1 mm	P mm	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
M 6	1	4,8	8	5	6,3	62	9,1	36	11,7	3
8	1,25	6,5	10	6,75	8,4	74	11,3	40	14,7	3
10	1,5	8,2	12	8,5	10,5	79	15,1	45	19,3	3
12	1,75	9,9	14	10,25	12,6	89	17,6	45	22,5	3
16	2	13,6	18	14	16,8	102	24,1	48	30,3	3

Gewindetiefe
Thread depth

2 x d1

BGF-Z3
2xd1
R30-IKZ-HA
TiCNBGF-Z3
2xd1
R30-IKZ-HB
TiCN

Ø d1 mm	P mm	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
M 6	1	4,8	8	5	6,3	62	12,1	36	14,7	3
8	1,25	6,5	10	6,75	8,4	74	15,1	40	18,5	3
10	1,5	8,2	12	8,5	10,5	79	19,6	45	23,8	3
12	1,75	9,9	14	10,25	12,6	89	22,9	45	27,8	3
16	2	13,6	18	14	16,8	102	32,1	48	38,3	3

Gewindetiefe
Thread depth

2,5 x d1

BGF-Z3
2,5xd1
R30-IKZ-HA
TiCNBGF-Z3
2,5xd1
R30-IKZ-HB
TiCN

Ø d1 mm	P mm	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
M 6	1	4,8	8	5	6,3	65	15,1	36	17,7	3
8	1,25	6,5	10	6,75	8,4	80	20,1	40	23,5	3
10	1,5	8,2	12	8,5	10,5	85	25,6	45	29,8	3
12	1,75	9,9	14	10,25	12,6	95	29,9	45	34,8	3
16	2	13,6	18	14	16,8	110	40,1	48	46,3	3

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

vC / fz

M

UNC UN, UNS

UNF UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

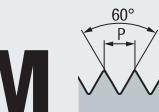
Pg

MJ
UNJC, UNJF

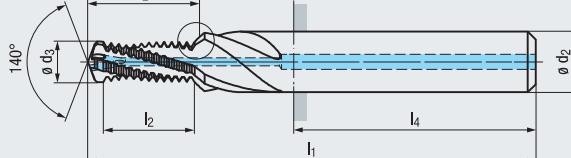
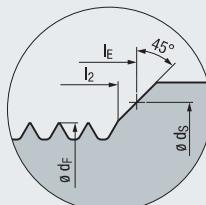
EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

DIN 13



VHM Carbide	TiCN
R20	RH + LH
Z4	DIN 6535 HA HB
90°	Ø d ₁
	Ø d ₁

BGF-Z4

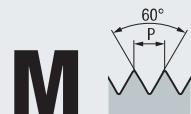
Einsatzgebiete – Material
Applications – material

► 358

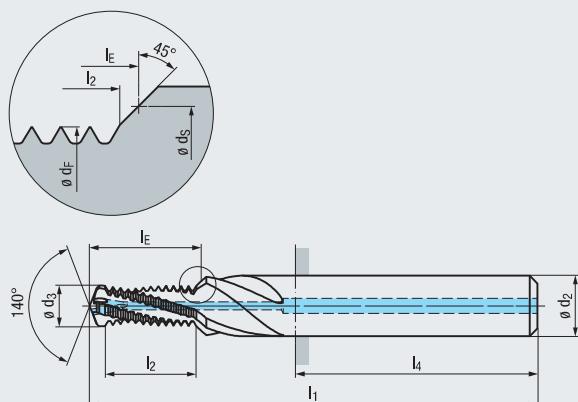
K 1.1-1.2
N 1.5-1.6, 2.31,5 x d₁BGF-Z4
1,5xd₁
R20-IKZ-HA
TiCNBGF-Z4
1,5xd₁
R20-IKZ-HB
TiCN2 x d₁BGF-Z4
2xd₁
R20-IKZ-HA
TiCNBGF-Z4
2xd₁
R20-IKZ-HB
TiCNGewindetiefe
Thread depth2,5 x d₁BGF-Z4
2,5xd₁
R20-IKZ-HA
TiCNBGF-Z4
2,5xd₁
R20-IKZ-HB
TiCNWeitere Ausführungen auf Anfrage
Further designs upon request

Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E (Flutes)	Z
M 6	1	4,8	8	5	6,3	62	9,1	36	11,7	4
8	1,25	6,5	10	6,75	8,4	74	11,3	40	14,7	4
10	1,5	8,2	12	8,5	10,5	79	15,1	45	19,3	4
12	1,75	9,9	14	10,25	12,6	89	17,6	45	22,5	4
16	2	13,6	18	14	16,8	102	32,1	48	38,3	4

Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E (Flutes)	Z
M 6	1	4,8	8	5	6,3	65	15,1	36	17,7	4
8	1,25	6,5	10	6,75	8,4	80	20,1	40	23,5	4
10	1,5	8,2	12	8,5	10,5	85	25,6	45	29,8	4
12	1,75	9,9	14	10,25	12,6	95	29,9	45	34,8	4
16	2	13,6	18	14	16,8	110	40,1	48	46,3	4



DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN T3
R20	RH + LH
Z4	DIN 6535 HA HB
90°	Ø d1
	Ø d2

BGF-Z4

K 1.1-1.2
N 1.5-1.6, 2.3

1,5 x d1

BGF-Z4
1,5xd1
R20-IKZ-HA
TIALN-T3BGF-Z4
1,5xd1
R20-IKZ-HB
TIALN-T3

Ø d1 mm	P mm	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
M 6	1	4,8	8	5	6,3	62	9,1	36	11,7	4
8	1,25	6,5	10	6,75	8,4	74	11,3	40	14,7	4
10	1,5	8,2	12	8,5	10,5	79	15,1	45	19,3	4
12	1,75	9,9	14	10,25	12,6	89	17,6	45	22,5	4

Gewindetiefe
Thread depthBGF-Z4
2xd1
R20-IKZ-HA
TIALN-T3BGF-Z4
2xd1
R20-IKZ-HB
TIALN-T3

Ø d1 mm	P mm	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
M 6	1	4,8	8	5	6,3	62	12,1	36	14,7	4
8	1,25	6,5	10	6,75	8,4	74	15,1	40	18,5	4
10	1,5	8,2	12	8,5	10,5	79	19,6	45	23,8	4
12	1,75	9,9	14	10,25	12,6	89	22,9	45	27,8	4
16	2	13,6	18	14	16,8	102	32,1	48	38,3	4

Gewindetiefe
Thread depth

2,5 x d1

BGF-Z4
2,5xd1
R20-IKZ-HA
TIALN-T3BGF-Z4
2,5xd1
R20-IKZ-HB
TIALN-T3

Ø d1 mm	P mm	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
M 6	1	4,8	8	5	6,3	65	15,1	36	17,7	4
8	1,25	6,5	10	6,75	8,4	80	20,1	40	23,5	4
10	1,5	8,2	12	8,5	10,5	85	25,6	45	29,8	4
12	1,75	9,9	14	10,25	12,6	95	29,9	45	34,8	4
16	2	13,6	18	14	16,8	110	40,1	48	46,3	4

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_z

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

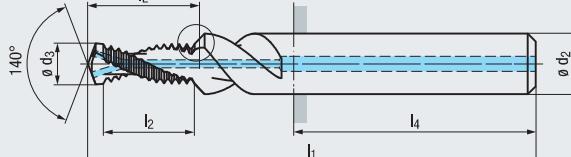
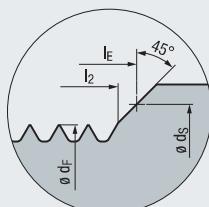
EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories**MF**

DIN 13

VHM
Carbide

R30

RH + LH

Z2

DIN 6535

**BGF-Z2**Einsatzgebiete – Material
Applications – material

► 358

K 1.1-3.2	N 1.1-1.5
N 2.2-2.3, 2.6	N 3.1-4.1

1,5 x d₁BGF-Z2
1,5xd₁
R30-IKZ-HABGF-Z2
1,5xd₁
R30-IKZ-HB

∅ d ₁ mm	P mm	∅ d _F mm	∅ d ₂	∅ d ₃	∅ d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
M 6 x 0,75	5,05	8	5,25	6,3	62	9,1	36	11,4	2	GF422801.0229
8 x 1	6,75	10	7	8,4	74	12,1	40	15,2	2	GF422801.0251
10 x 1	8,7	12	9	10,5	79	15,1	45	18,6	2	GF422801.0276
ZBGF 10 x 1,25	8,4	12	8,75	10,5	79	15,1	45	19	2	GF422801.0277
GSF 12 x 1,25	10,4	14	10,75	12,6	89	18,9	45	23,2	2	GF422801.0302
12 x 1,5	10,15	14	10,5	12,6	89	18,1	45	22,7	2	GF422801.0303
GF 14 x 1,5	12,1	16	12,5	14,7	102	21,1	48	26,2	2	GF422801.0331
16 x 1,5	14,1	18	14,5	16,8	102	24,1	48	29,6	2	GF422801.0359

∅ d ₁ mm	P mm	∅ d _F mm	∅ d ₂	∅ d ₃	∅ d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
M 6 x 0,75	5,05	8	5,25	6,3	62	12,1	36	14,4	2	GF422201.0229
8 x 1	6,75	10	7	8,4	74	16,1	40	19,2	2	GF422201.0251
10 x 1	8,7	12	9	10,5	79	20,1	45	23,6	2	GF422201.0276
ZGF 10 x 1,25	8,4	12	8,75	10,5	79	20,1	45	24	2	GF422201.0277
12 x 1,25	10,4	14	10,75	12,6	89	23,9	45	28,2	2	GF422201.0302
12 x 1,5	10,15	14	10,5	12,6	89	24,1	45	28,7	2	GF422201.0303
GF 14 x 1,5	12,1	16	12,5	14,7	102	27,1	48	32,2	2	GF422201.0331
16 x 1,5	14,1	18	14,5	16,8	102	31,6	48	37,1	2	GF422201.0359



Gewindetiefe

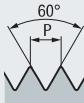
Thread depth

2 x d₁BGF-Z2
2xd₁
R30-IKZ-HABGF-Z2
2xd₁
R30-IKZ-HB

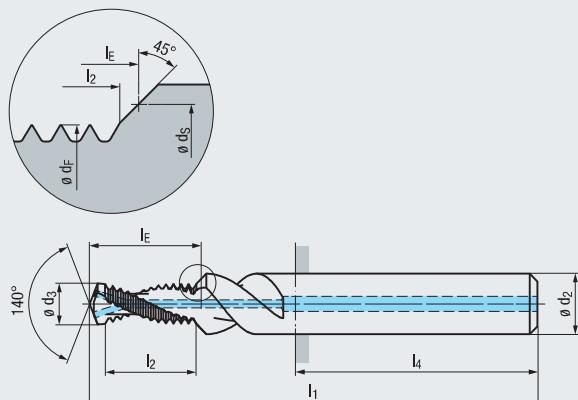
∅ d ₁ mm	P mm	∅ d _F mm	∅ d ₂	∅ d ₃	∅ d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
M 6 x 0,75	5,05	8	5,25	6,3	62	12,1	36	14,4	2	GF432801.0229
8 x 1	6,75	10	7	8,4	74	16,1	40	19,2	2	GF432801.0251
10 x 1	8,7	12	9	10,5	79	20,1	45	23,6	2	GF432801.0276
ZGF 10 x 1,25	8,4	12	8,75	10,5	79	20,1	45	24	2	GF432801.0277
12 x 1,25	10,4	14	10,75	12,6	89	23,9	45	28,2	2	GF432801.0302
12 x 1,5	10,15	14	10,5	12,6	89	24,1	45	28,7	2	GF432801.0303
GF 14 x 1,5	12,1	16	12,5	14,7	102	27,1	48	32,2	2	GF432801.0331
16 x 1,5	14,1	18	14,5	16,8	102	31,6	48	37,1	2	GF432801.0359

∅ d ₁ mm	P mm	∅ d _F mm	∅ d ₂	∅ d ₃	∅ d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
M 6 x 0,75	5,05	8	5,25	6,3	62	12,1	36	14,4	2	GF432201.0229
8 x 1	6,75	10	7	8,4	74	16,1	40	19,2	2	GF432201.0251
10 x 1	8,7	12	9	10,5	79	20,1	45	23,6	2	GF432201.0276
ZGF 10 x 1,25	8,4	12	8,75	10,5	79	20,1	45	24	2	GF432201.0277
12 x 1,25	10,4	14	10,75	12,6	89	23,9	45	28,2	2	GF432201.0302
12 x 1,5	10,15	14	10,5	12,6	89	24,1	45	28,7	2	GF432201.0303
GF 14 x 1,5	12,1	16	12,5	14,7	102	27,1	48	32,2	2	GF432201.0331
16 x 1,5	14,1	18	14,5	16,8	102	31,6	48	37,1	2	GF432201.0359

Weitere Ausführungen auf Anfrage
Further designs upon request

MF

DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R30	RH + LH
Z2	DIN 6535
	HA
	HB
90°	Ø d ₁
	Ø d ₂
	Ø d ₃

BGF-Z2K 1.1-3.2 N 1.1-1.6
N 2.2-2.3, 2.6 N 3.1-4.1**1,5 x d₁**BGF-Z2
1,5xd₁
R30-IKZ-HA
TiCNBGF-Z2
1,5xd₁
R30-IKZ-HB
TiCN

Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
M 6 x	0,75	5,05	8	5,25	6,3	62	9,1	36	11,4	2
8 x	1	6,75	10	7	8,4	74	12,1	40	15,2	2
10 x	1	8,7	12	9	10,5	79	15,1	45	18,6	2
10 x	1,25	8,4	12	8,75	10,5	79	15,1	45	19	2
12 x	1,25	10,4	14	10,75	12,6	89	18,9	45	23,2	2
12 x	1,5	10,15	14	10,5	12,6	89	18,1	45	22,7	2
14 x	1,5	12,1	16	12,5	14,7	102	21,1	48	26,2	2
16 x	1,5	14,1	18	14,5	16,8	102	24,1	48	29,6	2

Gewindetiefe
Thread depth**2 x d₁**BGF-Z2
2xd₁
R30-IKZ-HA
TiCNBGF-Z2
2xd₁
R30-IKZ-HB
TiCN

Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
M 6 x	0,75	5,05	8	5,25	6,3	62	12,1	36	14,4	2
8 x	1	6,75	10	7	8,4	74	16,1	40	19,2	2
10 x	1	8,7	12	9	10,5	79	20,1	45	23,6	2
10 x	1,25	8,4	12	8,75	10,5	79	20,1	45	24	2
12 x	1,25	10,4	14	10,75	12,6	89	23,9	45	28,2	2
12 x	1,5	10,15	14	10,5	12,6	89	24,1	45	28,7	2
14 x	1,5	12,1	16	12,5	14,7	102	27,1	48	32,2	2
16 x	1,5	14,1	18	14,5	16,8	102	31,6	48	37,1	2

Weitere Ausführungen auf Anfrage
Further designs upon requestSpannzangen-Aufnahmen
Typ KSN/Synchro
siehe Seite 675 - 676Collet holders
type KSN/Synchro,
see page 675 - 676

Product Finder

v_c / f_v

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

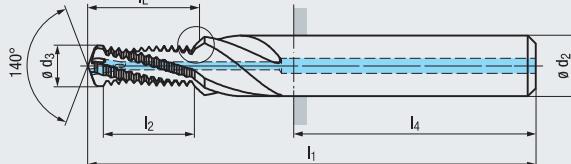
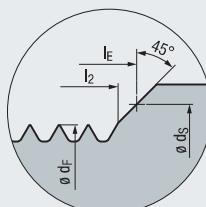
ZIRK-GF

Gigant

MoSys

**MF**

DIN 13



VHM Carbide	TiCN
R20	RH + LH
Z4	DIN 6535 HA HB
90°	Ø d ₁
	Ø d ₁

BGF-Z4

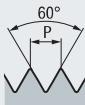
K 1.1-1.2
N 1.5-1.6, 2.3

2 x d₁

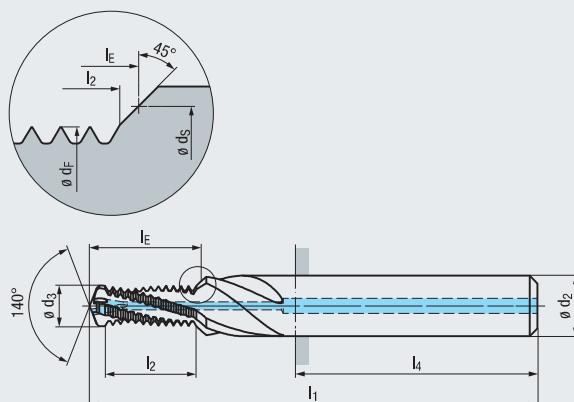
Einsatzgebiete – Material
Applications – material
► 358

	BGF-Z4 2xd ₁ R20-IKZ-HA TiCN	BGF-Z4 2xd ₁ R20-IKZ-HB TiCN
M	GF439846.0251	GF439246.0251
8 x 1	6,75	10
10 x 1	8,7	12
12 x 1,5	10,15	14
16 x 1,5	14,1	18
	Ø d ₂	Ø d ₂
	Ø d ₃	Ø d ₃
	Ø d _S	Ø d _S
	l ₁	l ₁
	l ₂	l ₂
	l ₄	l ₄
	l _E	l _E
	Z (Flutes)	Z (Flutes)
	4	4

Weitere Ausführungen auf Anfrage
Further designs upon request

MF

DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN T3
R20	RH + LH
Z4	DIN 6535 HA HB
90°	Ø d1
140°	Ø d2

BGF-Z4



K 1.1-1.2

N 1.5-1.6, 2.3

2 x d1BGF-Z4
2xd1
R20-IKZ-HA
TIALN-T3BGF-Z4
2xd1
R20-IKZ-HB
TIALN-T3

Ø d1 mm	P mm	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
M 8 x	1	6,75	10	7	8,4	74	16,1	40	19,2	4
10 x	1	8,7	12	9	10,5	79	20,1	45	23,6	4
12 x	1,5	10,15	14	10,5	12,6	89	24,1	45	28,7	4
16 x	1,5	14,1	18	14,5	16,8	102	31,6	48	37,1	4

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

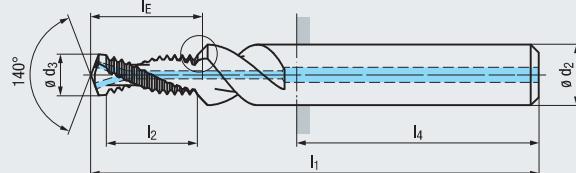
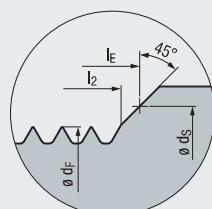
Gigant

MoSys

Gewindelehren
siehe Seite 541 - 594Thread gauges,
see page 541 - 594

UNC

ASME B1.1



► 358

Einsatzgebiete – Material
Applications – materialVHM
Carbide

R30

RH + LH

Z2

DIN 6535



HA

HB



Ø d1



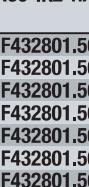
l1



l2

BGF-Z2

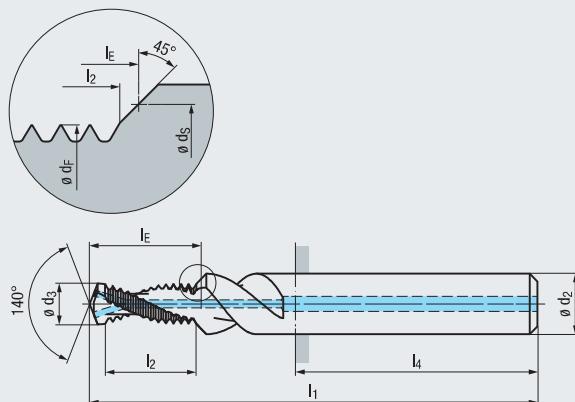
K 1.1-3.2	N 1.1-1.5
N 2.2-2.3, 2.6	N 3.1-4.1

1,5 x d₁**BGF-Z2**
1,5xd₁
R30-IKZ-HA**BGF-Z2**
1,5xd₁
R30-IKZ-HB**BGF-Z2**
2xd₁
R30-IKZ-HA**BGF-Z2**
2xd₁
R30-IKZ-HB**BGF-Z2**
2,5xd₁
R30-IKZ-HA**BGF-Z2**
2,5xd₁
R30-IKZ-HBWeitere Ausführungen auf Anfrage
Further designs upon requestGewindetiefe
Thread depth**2,5 x d₁**

∅ d ₁ inch	P Gg/1" (tpi)	∅ d _F mm	∅ d ₂	∅ d ₃	∅ d _S	l ₁	l ₂	l ₄	l _E (Flutes)	Z
3/8	16	7,65	12	8	10	85	23,9	45	28,1	2
7/16	14	9	12	9,4	11,7	85	27,3	45	32,2	2
1/2	13	10,35	14	10,8	13,3	95	31,4	45	36,7	2
9/16	12	11,8	16	12,25	15	110	34	48	39,9	2

UNC

ASME B1.1



Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R30	RH + LH
Z2	DIN 6535
	HA
	HB
	90°
	Ø d ₁
	Ø d ₂

BGF-Z2



K | 1.1-3.2 N | 1.1-1.6
N | 2.2-2.3, 2.6 N | 3.1-4.1

1,5 x d₁

BGF-Z2
1,5x d₁
R30-IKZ-HA
TiCN

BGF-Z2
1,5x d₁
R30-IKZ-HB
TiCN

Ø d ₁ inch	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
1/4	20	4,85	8	5,2	6,7	62	9	36	12,1	2
5/16	18	6,25	10	6,6	8,3	74	11,4	40	15	2
3/8	16	7,65	12	8	10	79	14,4	45	18,6	2
7/16	14	9	12	9,4	11,7	79	16,5	45	21,3	2
1/2	13	10,35	14	10,8	13,3	89	17,7	45	23,1	2
9/16	12	11,8	16	12,25	15	102	21,3	48	27,2	2
5/8	11	13,1	18	13,5	16,7	102	23,2	48	29,7	2



Gewindetiefe
Thread depth

2 x d₁

BGF-Z2
2x d₁
R30-IKZ-HA
TiCN

BGF-Z2
2x d₁
R30-IKZ-HB
TiCN

Ø d ₁ inch	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
1/4	20	4,85	8	5,2	6,7	62	12,8	36	15,9	2
5/16	18	6,25	10	6,6	8,3	74	15,6	40	19,2	2
3/8	16	7,65	12	8	10	79	19,2	45	23,3	2
7/16	14	9	12	9,4	11,7	79	21,9	45	26,7	2
1/2	13	10,35	14	10,8	13,3	89	25,5	45	30,9	2
9/16	12	11,8	16	12,25	15	102	27,7	48	33,6	2
5/8	11	13,1	18	13,5	16,7	102	30,1	48	36,7	2



Gewindetiefe
Thread depth

2,5 x d₁

BGF-Z2
2,5x d₁
R30-IKZ-HA
TiCN

BGF-Z2
2,5x d₁
R30-IKZ-HB
TiCN

Ø d ₁ inch	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
3/8	16	7,65	12	8	10	85	23,9	45	28,1	2
7/16	14	9	12	9,4	11,7	85	27,3	45	32,2	2
1/2	13	10,35	14	10,8	13,3	95	31,4	45	36,7	2
9/16	12	11,8	16	12,25	15	110	34	48	39,9	2

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_v

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

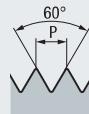
Pg

MJ
UNJC, UNJF

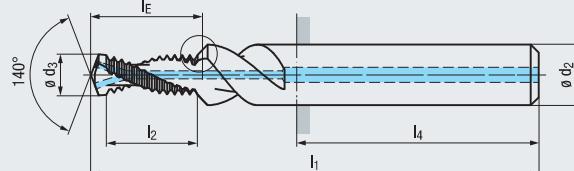
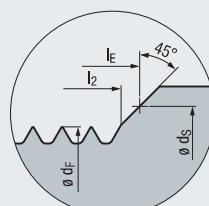
EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories**UNF**

ASME B1.1

VHM
Carbide

R30

RH + LH

Z2

DIN 6535



HA

HB



90°



d_1



d_2

BGF-Z2Einsatzgebiete – Material
Applications – material

► 358

K 1.1-3.2	N 1.1-1.5
N 2.2-2.3, 2.6	N 3.1-4.1

Gewindetiefe
Thread depth**1,5 x d₁**BGF-Z2
1,5xd₁
R30-IKZ-HABGF-Z2
1,5xd₁
R30-IKZ-HB

	∅ d ₁ inch	P Gg/1" (tpi)	∅ d _F mm	∅ d ₂	∅ d ₃	∅ d _S	l ₁	l ₂	l ₄	l _E (Flutes)	Z
BGF	1/4	28	5,26	8	5,5	6,7	62	9,2	36	11,8	2
	5/16	24	6,6	10	6,9	8,3	74	11,7	40	14,9	2
ZBGF	24	8,2	12	8,5	10	79	13,9	45	17,3	2	
	7/16	20	9,55	12	9,9	11,7	79	17,9	45	22	2
GSF	20	11,1	14	11,5	13,3	89	19,2	45	23,6	2	
	9/16	18	12,5	16	12,9	15	102	21,3	48	26,3	2
GF	18	14,1	18	14,5	16,7	102	22,7	48	28,1	2	

GF-VZ

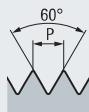
GF-KEG

ZGF

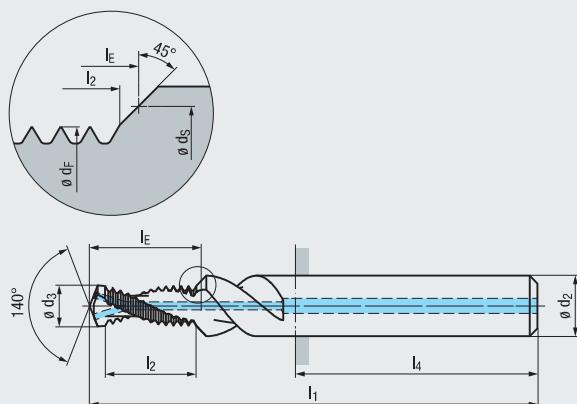
Gewindetiefe
Thread depth**2 x d₁**BGF-Z2
2xd₁
R30-IKZ-HABGF-Z2
2xd₁
R30-IKZ-HB

	∅ d ₁ inch	P Gg/1" (tpi)	∅ d _F mm	∅ d ₂	∅ d ₃	∅ d _S	l ₁	l ₂	l ₄	l _E (Flutes)	Z
Gigant	1/4	28	5,26	8	5,5	6,7	62	12,8	36	15,4	2
MoSys	24	6,6	10	6,9	8,3	74	16	40	19,1	2	
	24	8,2	12	8,5	10	79	19,2	45	22,6	2	
	20	9,55	12	9,9	11,7	79	21,7	45	25,8	2	
	11,1	14	11,5	13,3	89	25,6	45	30	2		
	18	12,5	16	12,9	15	102	28,4	48	33,4	2	
	18	14,1	18	14,5	16,7	102	31,2	48	36,5	2	

Weitere Ausführungen auf Anfrage
Further designs upon requestGewinde-Tiefenlehrdorne
see page 588 - 591Thread depth plug gauges,
see page 588 - 591

UNF

ASME B1.1

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R30	RH + LH
Z2	DIN 6535
	HA
	HB
90°	Ø d1
	Ø d2
	Ø d3

BGF-Z2K | 1.1-3.2 N | 1.1-1.6
N | 2.2-2.3, 2.6 N | 3.1-4.1**1,5 x d₁**BGF-Z2
1,5xd₁
R30-IKZ-HA
TiCNBGF-Z2
1,5xd₁
R30-IKZ-HB
TiCN

Ø d ₁ inch	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
1/4	28	5,26	8	5,5	6,7	62	9,2	36	11,8	2
5/16	24	6,6	10	6,9	8,3	74	11,7	40	14,9	2
3/8	24	8,2	12	8,5	10	79	13,9	45	17,3	2
7/16	20	9,55	12	9,9	11,7	79	17,9	45	22	2
1/2	20	11,1	14	11,5	13,3	89	19,2	45	23,6	2
9/16	18	12,5	16	12,9	15	102	21,3	48	26,3	2
5/8	18	14,1	18	14,5	16,7	102	22,7	48	28,1	2

Gewindetiefe
Thread depth**2 x d₁**BGF-Z2
2xd₁
R30-IKZ-HA
TiCNBGF-Z2
2xd₁
R30-IKZ-HB
TiCN

Ø d ₁ inch	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)
1/4	28	5,26	8	5,5	6,7	62	12,8	36	15,4	2
5/16	24	6,6	10	6,9	8,3	74	16	40	19,1	2
3/8	24	8,2	12	8,5	10	79	19,2	45	22,6	2
7/16	20	9,55	12	9,9	11,7	79	21,7	45	25,8	2
1/2	20	11,1	14	11,5	13,3	89	25,6	45	30	2
9/16	18	12,5	16	12,9	15	102	28,4	48	33,4	2
5/8	18	14,1	18	14,5	16,7	102	31,2	48	36,5	2

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_v

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

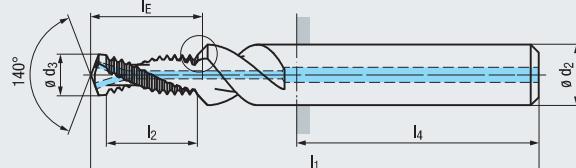
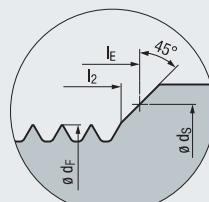
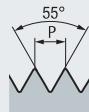
ZIRK-GF

Gigant

MoSys

G (BSP)

DIN EN ISO 228

VHM
Carbide

R30

RH + LH

Z2

DIN 6535

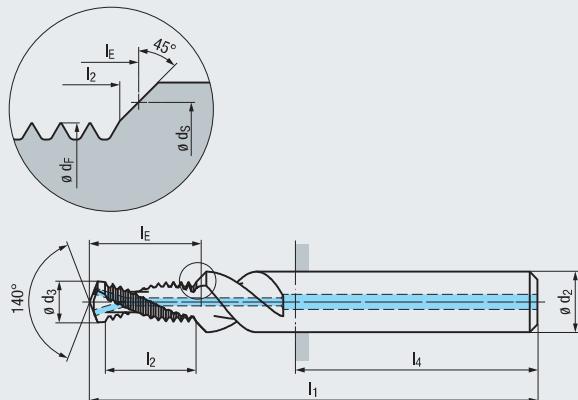
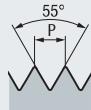
**BGF-Z2**

K 1.1-3.2 **N** 1.1-1.5
N 2.2-2.3, 2.6 **N** 3.1-4.1

1,5 x d₁BGF-Z2
1,5xd₁
R30-IKZ-HABGF-Z2
1,5xd₁
R30-IKZ-HB**2 x d₁**BGF-Z2
2xd₁
R30-IKZ-HABGF-Z2
2xd₁
R30-IKZ-HBWeitere Ausführungen auf Anfrage
Further designs upon request

G (BSP)

DIN EN ISO 228

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

Nenngröße

Nom. size	P Gg/1" (tpi)	$\emptyset d_F$ mm	$\emptyset d_2$	$\emptyset d_3$	$\emptyset d_S$	l_1	l_2	l_4	l_E	Z (Flutes)
G	1/8	28	8,5	12	8,8	10,2	79	14,6	45	17,9
	1/4	19	11,4	16	11,8	13,8	102	18,8	48	23,4
	3/8	19	14,85	18	15,25	17,5	102	25,5	48	30,9

VHM Carbide	TiCN
R30	RH + LH
Z2	DIN 6535 HA HB
90°	$\emptyset d_1$

BGF-Z2

**K | 1.1-3.2** **N | 1.1-1.6**
N | 2.2-2.3, 2.6 **N | 3.1-4.1****1,5 x d_1** BGF-Z2
1,5xd₁
R30-IKZ-HA
TiCNBGF-Z2
1,5xd₁
R30-IKZ-HB
TiCNGewindetiefe
Thread depth

Nenngröße

Nom. size	P Gg/1" (tpi)	$\emptyset d_F$ mm	$\emptyset d_2$	$\emptyset d_3$	$\emptyset d_S$	l_1	l_2	l_4	l_E	Z (Flutes)
G	1/8	28	8,5	12	8,8	10,2	79	19,1	45	22,4
	1/4	19	11,4	16	11,8	13,8	102	25,5	48	30,1
	3/8	19	14,85	18	15,25	17,5	102	33,5	48	38,9

BGF-Z2
2xd₁
R30-IKZ-HA
TiCNBGF-Z2
2xd₁
R30-IKZ-HB
TiCN**2 x d_1** Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

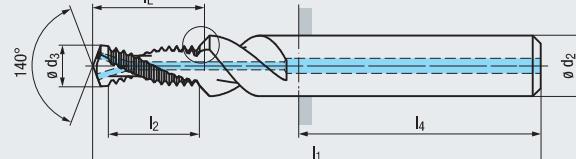
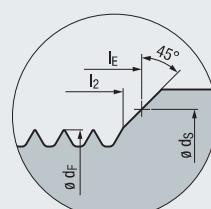
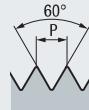
SELF-LOCK

Tr

Zubehör
Accessories

EG M (STI)

DIN 8140-2

VHM
Carbide

R30

RH + LH

Z2

DIN 6535



BGF-Z2

Einsatzgebiete – Material
Applications – material

► 358

K 1.1-3.2
N 1.1-1.5
N 2.2-2.3, 2.6
N 3.1-4.11,5 x d₁BGF-Z2
1,5xd₁
R30-IKZ-HABGF-Z2
1,5xd₁
R30-IKZ-HB2 x d₁BGF-Z2
2xd₁
R30-IKZ-HABGF-Z2
2xd₁
R30-IKZ-HBWeitere Ausführungen auf Anfrage
Further designs upon request

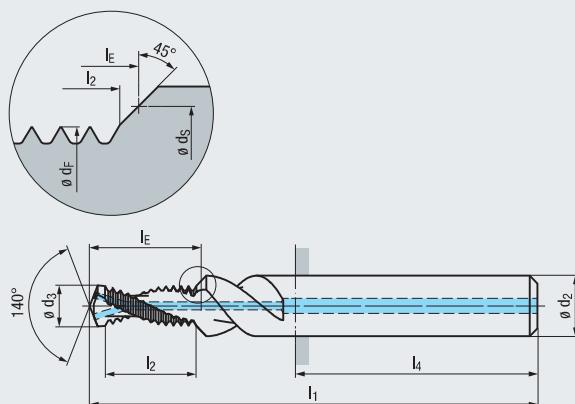
	Nenngröße Nom. size	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)	
BGF	EG M	6	1	6	10	6,3	7,7	74	10,1	40	13,1	2
		8	1,25	8,1	12	8,4	10,1	79	12,6	45	16,4	2
ZBGF		10	1,5	10	14	10,4	12,5	89	16,6	45	21,3	2
GSF		12	1,75	12,1	16	12,5	15	102	19,4	48	24,8	2
		14	2	14,1	18	14,5	17,4	102	22,1	48	28,4	2
		16	2	16	20	16,5	19,5	115	26,1	50	32,9	2

	Nenngröße Nom. size	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	Ø d ₃	Ø d _S	l ₁	l ₂	l ₄	l _E	Z (Flutes)		
ZGF	Gigant	EG M	6	1	6	10	6,3	7,7	74	13,1	40	16,1	2
ZIRK-GF			8	1,25	8,1	12	8,4	10,1	79	16,3	45	20,1	2
	Mosys		10	1,5	10	14	10,4	12,5	89	21,1	45	25,8	2
			12	1,75	12,1	16	12,5	15	102	24,6	48	30,1	2
			14	2	14,1	18	14,5	17,4	102	30,1	48	36,4	2
			16	2	16	20	16,5	19,5	115	34,1	50	40,9	2



EG M (STI)

DIN 8140-2

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R30	RH + LH
Z2	DIN 6535
	HA
	HB
90°	Ø d1
	Ø d2

BGF-Z2

K | 1.1-3.2 N | 1.1-1.6
N | 2.2-2.3, 2.6 N | 3.1-4.1

1,5 x d1

BGF-Z2
1,5xd1
R30-IKZ-HA
TiCNBGF-Z2
1,5xd1
R30-IKZ-HB
TiCN

Nenngröße Nom. size	P Gg/1" (tpi)	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
EG M 6	1	6	10	6,3	7,7	74	10,1	40	13,1	2
8	1,25	8,1	12	8,4	10,1	79	12,6	45	16,4	2
10	1,5	10	14	10,4	12,5	89	16,6	45	21,3	2
12	1,75	12,1	16	12,5	15	102	19,4	48	24,8	2
14	2	14,1	18	14,5	17,4	102	22,1	48	28,4	2
16	2	16	20	16,5	19,5	115	26,1	50	32,9	2

Gewindetiefe
Thread depth

2 x d1

BGF-Z2
2xd1
R30-IKZ-HA
TiCNBGF-Z2
2xd1
R30-IKZ-HB
TiCN

Nenngröße Nom. size	P Gg/1" (tpi)	Ø dF mm	Ø d2	Ø d3	Ø dS	l1	l2	l4	lE	Z (Flutes)
EG M 6	1	6	10	6,3	7,7	74	13,1	40	16,1	2
8	1,25	8,1	12	8,4	10,1	79	16,3	45	20,1	2
10	1,5	10	14	10,4	12,5	89	21,1	45	25,8	2
12	1,75	12,1	16	12,5	15	102	24,6	48	30,1	2
14	2	14,1	18	14,5	17,4	102	30,1	48	36,4	2
16	2	16	20	16,5	19,5	115	34,1	50	40,9	2

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finder

vC / fz

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

Gewindebohrer für Metrisches
EG-Gewinde siehe Seite 280 - 283Taps for Metric STI thread,
see page 280 - 283

Product
Finder

v_c / f_z

M

MF

UNC
UN, UNS

UNF
UNEF

G, Rp

NPT, NPTF
 R_c, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

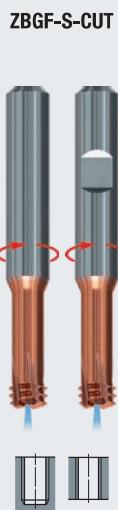
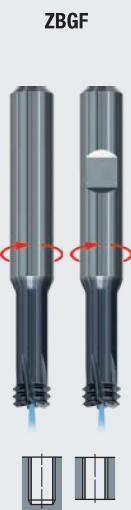
ZGF

ZIRK-GF

Gigant

MoSys



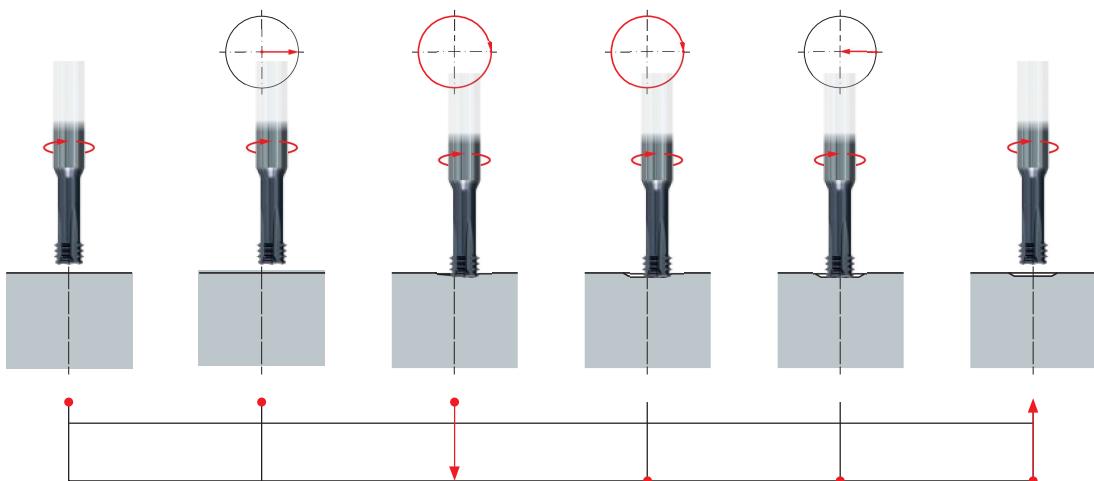
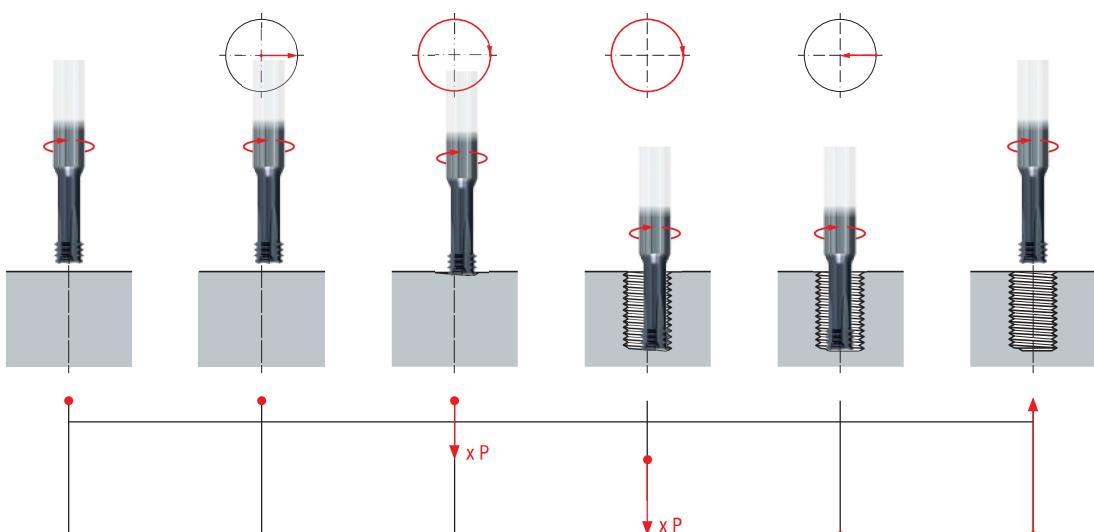


Seite · Page

390	394	401	M
391	395		MF
392	396	402	UNC
393	397	403	UNF
	398		MJ
	399		UNJC
	400		UNJF

Mögliche Modifikationen siehe Seite 356 - 357

Possible modifications, see pages 356 - 357

Zirkulares Anfasen · Circular chamfering**Gewindefräsyklus · Thread milling cycle**

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

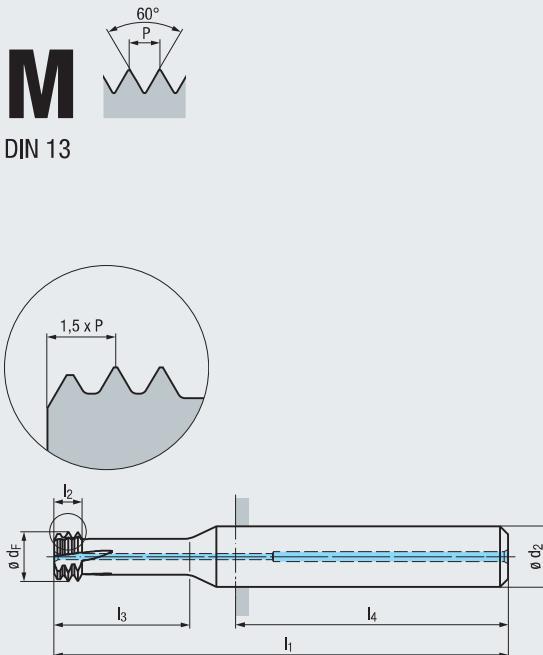
Pg

MJ
UNJC, UNJF

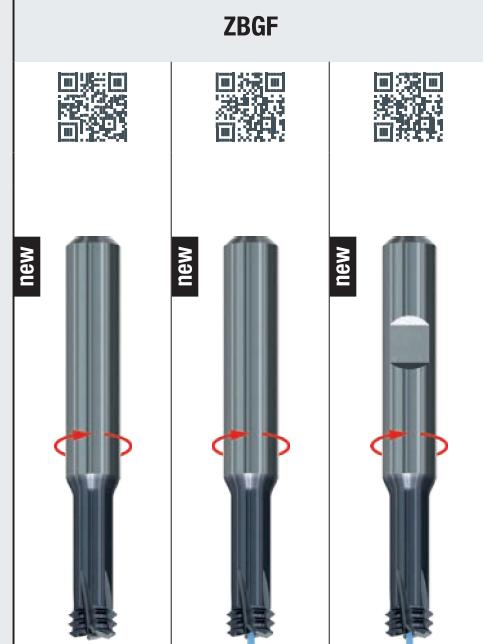
EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

VHM Carbide	TIALN 86
RH + LH	LH-rot.
L10	Z4 - Z5
DIN 6535	Ø d ₁
HA	HB
Zum Anfassen geeignet Suitable for chamfering	

Einsatzgebiete – Material
Applications – material

► 358

P	1.1-5.1	M	1.1-4.1
K	1.1-4.2	N	1.1-5.3

2,5 x d₁

	ZBGF 2,5xd ₁ L10-HA TIALN-86	ZBGF 2,5xd ₁ L10-IKZ-HA TIALN-86	ZBGF 2,5xd ₁ L10-IKZ-HB TIALN-86
BGF	GF74682C.0030		
M	3 0,5 2,25 3 39 1,5 8,3 28 4 4 0,7 2,95 4 42 2,1 11,1 28 4	GF74682C.0040	
ZBGF	5 0,8 3,8 6 55 2,4 13,7 36 4 6 1 4,5 6 58 3 16,5 36 4		GF74682C.0050 GF74682C.0060
GSF	8 1,25 6,13 8 63 3,8 21,9 36 4 10 1,5 7,75 10 74 4,5 27,3 40 4		GF74682C.0080 GF74682C.0100
GF	12 1,75 9,38 10 78 5,3 32,6 40 5 14 2 11 12 88 6 38 45 5		GF74682C.0112 GF74682C.0114
GF-VZ	16 2 13 14 95 6 43 45 5		GF74682C.0116
GF-KEG	20 2,5 16,25 18 110 7,5 53,8 48 5 24 3 19,5 20 123 9 64,5 50 5		GF74682C.0120 GF74682C.0124

Weitere Ausführungen auf Anfrage
Further designs upon request

ZGF

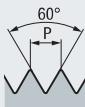
ZIRK-GF

Gigant

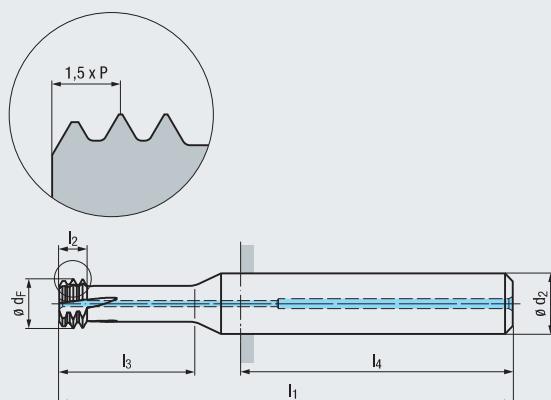
MoSys



Kühlschmierstoffe siehe Seite 300 - 301 Coolant-lubricants, see page 300 - 301

MF

DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN 86
RH + LH	LH-rot.
L10	Z5
DIN 6535	$\emptyset d_1$
HA	
HB	
Zum Anfassen geeignet Suitable for chamfering	

new



new



P 1.1-5.1	M 1.1-4.1
K 1.1-4.2	N 1.1-5.3

2,5 x d_1

	$\emptyset d_1$ mm	P mm	$\emptyset d_F$ mm	$\emptyset d_2$	l_1	l_2	l_3	l_4	Z (Flutes)	ZBGF 2,5x d_1 L10-IKZ-HA TIALN-86	ZBGF 2,5x d_1 L10-IKZ-HB TIALN-86
M	8	x	1	6,5	8	63	3	21,5	36	GF74682C.0251	GF74622C.0251
	10	x	1	8,5	10	74	3	26,5	40	GF74682C.0276	GF74622C.0276
	10	x	1,25	8,13	10	74	3,8	26,9	40	GF74682C.0277	GF74622C.0277
	12	x	1	10,5	12	83	3	31,5	45	GF74682C.0301	GF74622C.0301
	12	x	1,25	10,13	12	83	3,8	31,9	45	GF74682C.0302	GF74622C.0302
	12	x	1,5	9,75	12	83	4,5	32,3	45	GF74682C.0303	GF74622C.0303
	14	x	1,5	11,75	12	85	4,5	37,3	45	GF74682C.0331	GF74622C.0331
	16	x	1,5	13,75	14	93	4,5	42,3	45	GF74682C.0359	GF74622C.0359

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_z

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

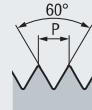
Pg

MJ
UNJC, UNJF

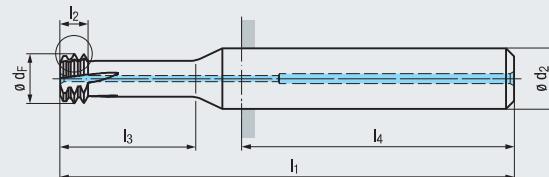
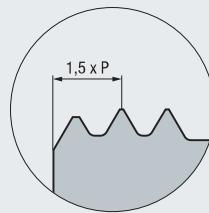
EG (STI)

SELF-LOCK

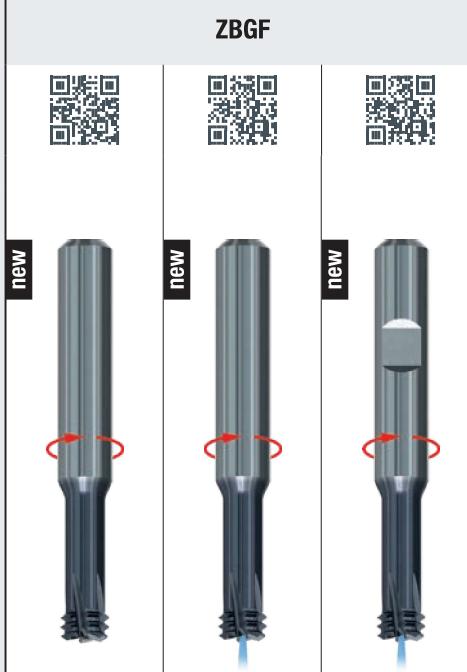
Tr

Zubehör
Accessories**UNC**

ASME B1.1



VHM Carbide	TIALN 86
RH + LH	LH-rot.
L10	Z3 - Z5
DIN 6535	Ø d ₁
HA	HB
Zum Anfassen geeignet Suitable for chamfering	



P 1.1-5.1	M 1.1-4.1
K 1.1-4.2	N 1.1-5.3

2,5 x d₁

ZBGF 2,5xd ₁ L10-HA TIALN-86	ZBGF 2,5xd ₁ L10-IKZ-HA TIALN-86	ZBGF 2,5xd ₁ L10-IKZ-HB TIALN-86
GF74682C.5005		
GF74682C.5006		
GF74682C.5007		
	GF74682C.5009	GF74622C.5009
	GF74682C.5010	GF74622C.5010
	GF74682C.5011	GF74622C.5011
	GF74682C.5012	GF74622C.5012
	GF74682C.5013	GF74622C.5013
	GF74682C.5014	GF74622C.5014
	GF74682C.5015	GF74622C.5015
	GF74682C.5016	GF74622C.5016

Weitere Ausführungen auf Anfrage
Further designs upon request

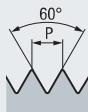
ZGF

ZIRK-GF

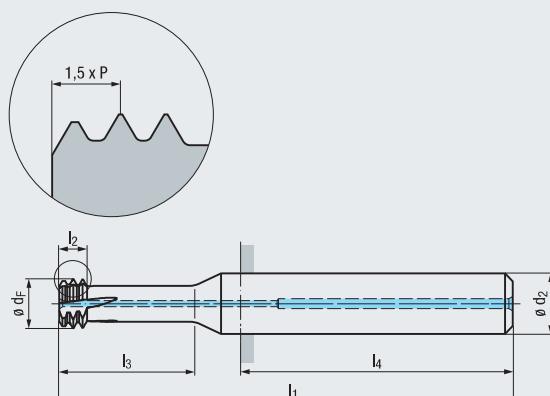
Gigant

MoSys



UNF

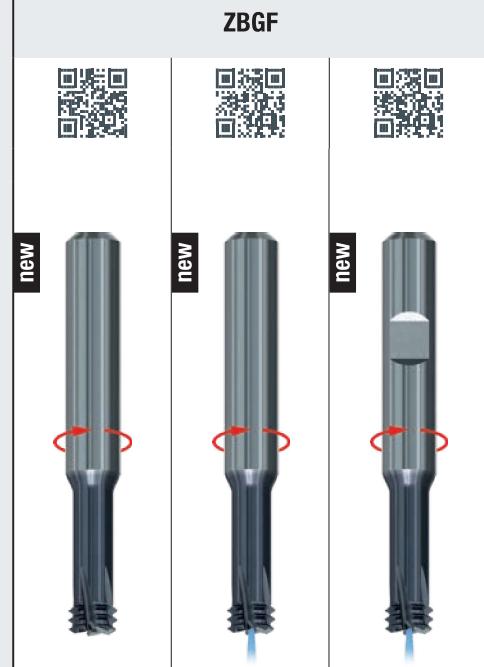
ASME B1.1

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN 86
RH + LH	LH-rot.
L10	Z4 - Z5
DIN 6535	$\varnothing d_1$ HA HB
Zum Anfassen geeignet Suitable for chamfering	



P 1.1-5.1	M 1.1-4.1
K 1.1-4.2	N 1.1-5.3

2,5 x d₁

$\varnothing d_1$ inch	P Gg/1" (tpi)	$\varnothing d_F$ mm	$\varnothing d_2$	l ₁	l ₂	l ₃	l ₄	Z (Flutes)	ZBGF 2,5xd ₁ L10-HA TIALN-86	ZBGF 2,5xd ₁ L10-IKZ-HA TIALN-86	ZBGF 2,5xd ₁ L10-IKZ-HB TIALN-86
Nr. 6	40	2,63	3	40	1,9	9,7	28	4	GF74682C.5039		
Nr. 8	36	3,15	4	43	2,1	11,5	28	4	GF74682C.5040		
Nr.10	32	3,7	4	45	2,4	13,3	28	4	GF74682C.5041		
1/4	28	5,05	6	58	2,7	17,2	36	4		GF74682C.5043	GF74622C.5043
5/16	24	6,37	8	62	3,2	21,4	36	5		GF74682C.5044	GF74622C.5044
3/8	24	7,97	8	65	3,2	25,4	36	5		GF74682C.5045	GF74622C.5045
7/16	20	9,27	10	74	3,8	29,7	40	5		GF74682C.5046	GF74622C.5046
1/2	20	10,87	12	84	3,8	33,7	45	5		GF74682C.5047	GF74622C.5047
9/16	18	11,9	12	87	4,2	37,8	45	5		GF74682C.5048	GF74622C.5048
5/8	18	13,51	14	91	4,2	41,8	45	5		GF74682C.5049	GF74622C.5049
3/4	16	15,9	16	102	4,8	50	48	5		GF74682C.5050	GF74622C.5050

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

Gewindelehren
siehe Seite 541 - 594Thread gauges,
see page 541 - 594

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

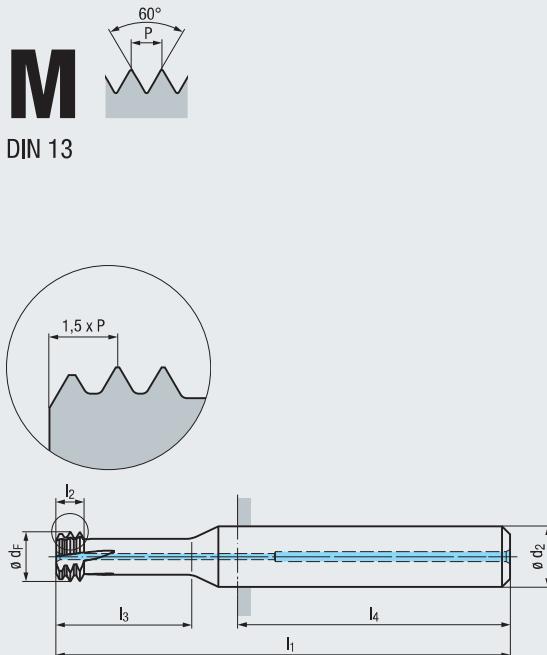
Pg

MJ
UNJC, UNJF

EG (STI)

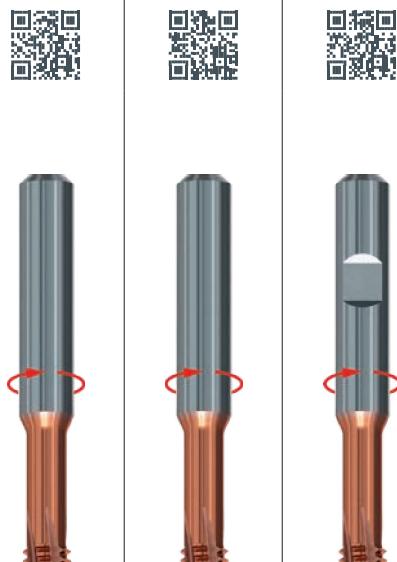
SELF-LOCK

Tr

Zubehör
Accessories

VHM Carbide	ALCR 89
RH + LH	LH-rot.
L10	Z4 - Z5
DIN 6535	Ø d ₁
HA	HB
Zum Anfassen geeignet Suitable for chamfering	

ZBGF-S-CUT



P 1.1-5.1 M 1.1-4.1 K 1.1-4.2
N 1.1-5.3 S 1.1-2.6

2 x d₁

	ZBGF-S-CUT 2xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HB ALCR-89
BGF	GF7B682B.0030		
M	GF7B682B.0040		
ZBGF		GF7B682B.0050	GF7B622B.0050
5		GF7B682B.0060	GF7B622B.0060
6		GF7B682B.0080	GF7B622B.0080
8		GF7B682B.0100	GF7B622B.0100
10		GF7B682B.0112	GF7B622B.0112
12		GF7B682B.0114	GF7B622B.0114
14		GF7B682B.0116	GF7B622B.0116
16		GF7B682B.0120	GF7B622B.0120
20		GF7B682B.0124	GF7B622B.0124

new new new

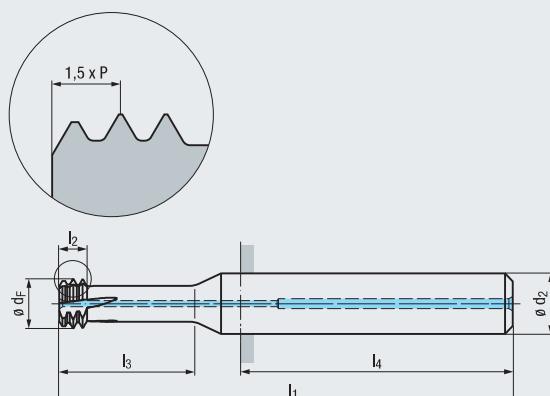
2,5 x d₁

	ZBGF-S-CUT 2,5xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HB ALCR-89
BGF	GF7C682B.0030		
M	GF7C682B.0040		
4		GF7C682B.0050	GF7C622B.0050
5		GF7C682B.0060	GF7C622B.0060
6		GF7C682B.0080	GF7C622B.0080
8		GF7C682B.0100	GF7C622B.0100
10		GF7C682B.0112	GF7C622B.0112
12		GF7C682B.0114	GF7C622B.0114
14		GF7C682B.0116	GF7C622B.0116
16		GF7C682B.0120	GF7C622B.0120
20		GF7C682B.0124	GF7C622B.0124

Weitere Ausführungen auf Anfrage
Further designs upon request



DIN 13

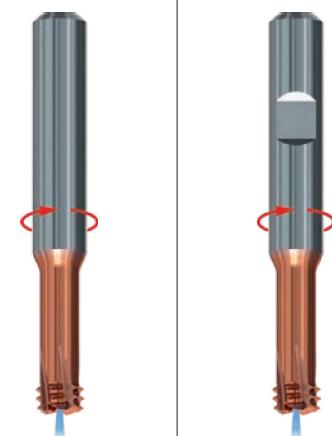
Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	ALCR 89
RH + LH	LH-rot.
L10	Z5
DIN 6535	$\varnothing d_1$
HA	HB
Zum Anfassen geeignet Suitable for chamfering	

ZBGF-S-CUT



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	

2 x d_1

ZBGF-S-CUT 2xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HB ALCR-89
GF7B682B.0251	GF7B622B.0251
GF7B682B.0276	GF7B622B.0276
GF7B682B.0277	GF7B622B.0277
GF7B682B.0301	GF7B622B.0301
GF7B682B.0302	GF7B622B.0302
GF7B682B.0303	GF7B622B.0303
GF7B682B.0331	GF7B622B.0331
GF7B682B.0359	GF7B622B.0359

New



New

Gewindetiefe
Thread depth

$\varnothing d_1$ mm	P mm	$\varnothing d_F$ mm	$\varnothing d_2$	l_1	l_2	l_3	l_4	Z (Flutes)
M 8 x	1	6,5	8	60	3	17,5	36	5
10 x	1	8,5	10	70	3	21,5	40	5
10 x	1,25	8,13	10	70	3,8	21,9	40	5
12 x	1	10,5	12	80	3	25,5	45	5
12 x	1,25	10,13	12	80	3,8	25,9	45	5
12 x	1,5	9,75	12	80	4,5	26,3	45	5
14 x	1,5	11,75	12	80	4,5	30,3	45	5
16 x	1,5	13,75	14	84	4,5	34,3	45	5

2,5 x d_1

ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HB ALCR-89
GF7C682B.0251	GF7C622B.0251
GF7C682B.0276	GF7C622B.0276
GF7C682B.0277	GF7C622B.0277
GF7C682B.0301	GF7C622B.0301
GF7C682B.0302	GF7C622B.0302
GF7C682B.0303	GF7C622B.0303
GF7C682B.0331	GF7C622B.0331
GF7C682B.0359	GF7C622B.0359

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

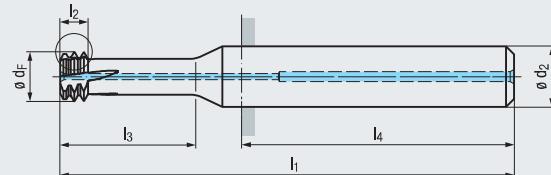
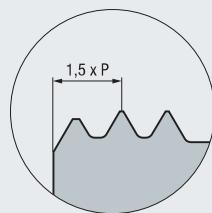
Pg

MJ
UNJC, UNJF

EG (STI)

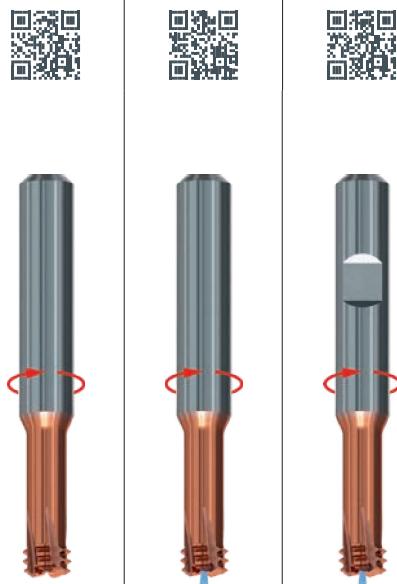
UNC

ASME B1.1



VHM Carbide	ALCR 89
RH + LH	LH-rot.
L10	Z3 - Z5
DIN 6535	Ø d ₁ HA HB
Zum Anfassen geeignet Suitable for chamfering	Ø d ₁ HA HB

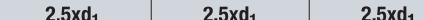
ZBGF-S-CUT



P 1.1-5.1 M 1.1-4.1 K 1.1-4.2
N 1.1-5.3 S 1.1-2.6

2 x d₁

ZBGF-S-CUT 2xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HB ALCR-89
GF7B682B.5005		
GF7B682B.5006		
GF7B682B.5007		
	GF7B682B.5009	GF7B622B.5009
	GF7B682B.5010	GF7B622B.5010
	GF7B682B.5011	GF7B622B.5011
	GF7B682B.5012	GF7B622B.5012
	GF7B682B.5013	GF7B622B.5013
	GF7B682B.5014	GF7B622B.5014
	GF7B682B.5015	GF7B622B.5015
	GF7B682B.5016	GF7B622B.5016

Einsatzgebiete – Material
Applications – material

► 358

Tr

Zubehör
Accessories

	Ø d ₁ inch	P Gg/1" (tpi)	Ø d _f mm	Ø d ₂	l ₁	l ₂	l ₃	l ₄	Z (Flutes)
BGF	Nr. 6	32	2,45	3	39	2,4	8,2	28	3
	Nr. 8	32	3,1	4	40	2,4	9,5	28	3
ZBGF	Nr.10	24	3,37	4	42	3,2	11,2	28	3
	1/4	20	4,47	6	55	3,8	14,6	36	3
GSF	5/16	18	5,89	8	62	4,2	18	36	4
	3/8	16	7,21	8	62	4,8	21,4	36	4
GF	7/16	14	8,49	10	70	5,4	25	40	4
	1/2	13	9,82	12	80	5,9	28,3	45	4
GF-VZ	9/16	12	11,14	12	82	6,4	31,8	45	5
	5/8	11	12,35	14	87	6,9	35,2	45	5
GF-KEG	3/4	10	15,23	16	96	7,6	41,9	48	5

ZGF

ZIRK-GF

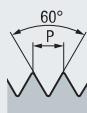
Gigant

MoSys

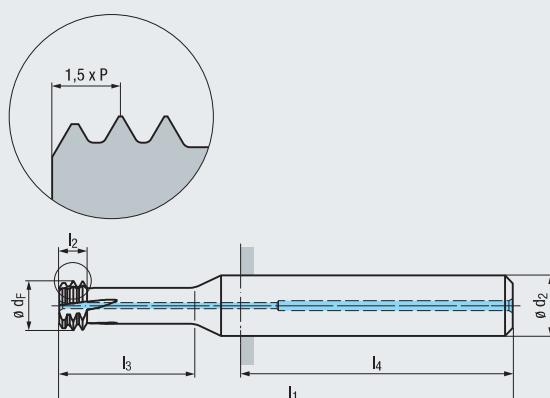
Gewindetiefe
Thread depth2,5 x d₁

ZBGF-S-CUT 2,5xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HB ALCR-89
GF7C682B.5005		
GF7C682B.5006		
GF7C682B.5007		
	GF7C682B.5009	GF7C622B.5009
	GF7C682B.5010	GF7C622B.5010
	GF7C682B.5011	GF7C622B.5011
	GF7C682B.5012	GF7C622B.5012
	GF7C682B.5013	GF7C622B.5013
	GF7C682B.5014	GF7C622B.5014
	GF7C682B.5015	GF7C622B.5015
	GF7C682B.5016	GF7C622B.5016

Weitere Ausführungen auf Anfrage
Further designs upon request

UNF

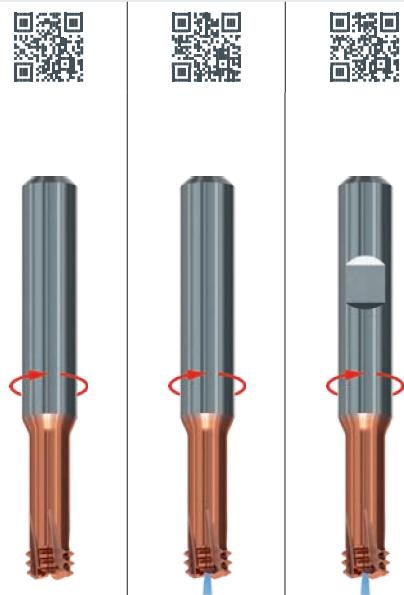
ASME B1.1

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	ALCR 89
RH + LH	LH-rot.
L10	Z4 - Z5
DIN 6535	$\varnothing d_1$ HA HB
Zum Anfassen geeignet Suitable for chamfering	

ZBGF-S-CUT

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	

2 x d₁

$\varnothing d_1$ inch	P Gg/1" (tpi)	$\varnothing d_F$ mm	$\varnothing d_2$	l_1	l_2	l_3	l_4	Z (Flutes)	ZBGF-S-CUT 2xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HB ALCR-89
Nr. 6	40	2,63	3	39	1,9	8	28	4	GF7B682B.5039		
Nr. 8	36	3,15	4	40	2,1	9,4	28	4	GF7B682B.5040		
Nr.10	32	3,7	4	42	2,4	10,8	28	4	GF7B682B.5041		
1/4	28	5,05	6	55	2,7	14,1	36	4		GF7B682B.5043	GF7B622B.5043
5/16	24	6,37	8	58	3,2	17,5	36	5		GF7B682B.5044	GF7B622B.5044
3/8	24	7,97	8	62	3,2	20,6	36	5		GF7B682B.5045	GF7B622B.5045
7/16	20	9,27	10	70	3,8	24,1	40	5		GF7B682B.5046	GF7B622B.5046
1/2	20	10,87	12	80	3,8	27,3	45	5		GF7B682B.5047	GF7B622B.5047
9/16	18	11,9	12	80	4,2	30,7	45	5		GF7B682B.5048	GF7B622B.5048
5/8	18	13,51	14	83	4,2	33,9	45	5		GF7B682B.5049	GF7B622B.5049
3/4	16	15,9	16	93	4,8	40,5	48	5		GF7B682B.5050	GF7B622B.5050



new



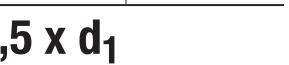
new



new

Gewindetiefe
Thread depth

$\varnothing d_1$ inch	P Gg/1" (tpi)	$\varnothing d_F$ mm	$\varnothing d_2$	l_1	l_2	l_3	l_4	Z (Flutes)	ZBGF-S-CUT 2,5xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HB ALCR-89
Nr. 6	40	2,63	3	40	1,9	9,7	28	4	GF7C682B.5039		
Nr. 8	36	3,15	4	43	2,1	11,5	28	4	GF7C682B.5040		
Nr.10	32	3,7	4	45	2,4	13,3	28	4	GF7C682B.5041		
1/4	28	5,05	6	58	2,7	17,2	36	4		GF7C682B.5043	GF7C622B.5043
5/16	24	6,37	8	62	3,2	21,4	36	5		GF7C682B.5044	GF7C622B.5044
3/8	24	7,97	8	65	3,2	25,4	36	5		GF7C682B.5045	GF7C622B.5045
7/16	20	9,27	10	74	3,8	29,7	40	5		GF7C682B.5046	GF7C622B.5046
1/2	20	10,87	12	84	3,8	33,7	45	5		GF7C682B.5047	GF7C622B.5047
9/16	18	11,9	12	87	4,2	37,8	45	5		GF7C682B.5048	GF7C622B.5048
5/8	18	13,51	14	91	4,2	41,8	45	5		GF7C682B.5049	GF7C622B.5049
3/4	16	15,9	16	102	4,8	50	48	5		GF7C682B.5050	GF7C622B.5050



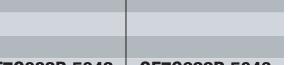
new



new



new



new



new



Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

MF
UNC
UN, UNSUNF
UNE

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

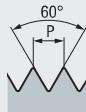
ZGF

ZIRK-GF

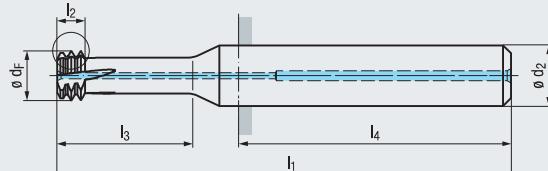
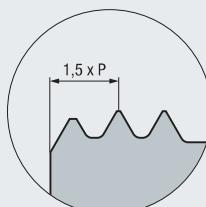
Gigant

MoSys

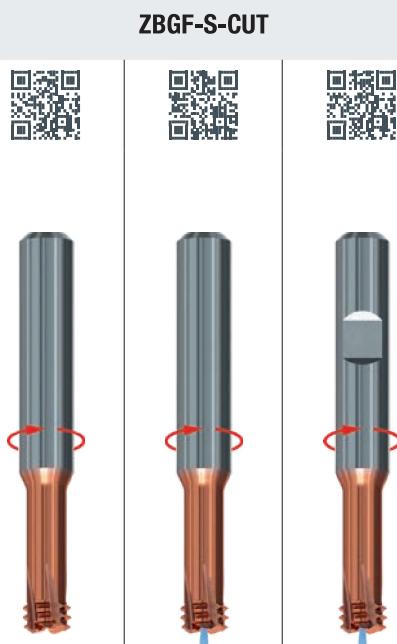




DIN ISO 5855



VHM Carbide	ALCR 89
RH + LH	LH-rot.
L10	Z4 - Z5
DIN 6535	Ø d ₁
HA	HA
HB	HB
Zum Anfassen geeignet Suitable for chamfering	



P 1.1-5.1 M 1.1-4.1 K 1.1-4.2
N 1.1-5.3 S 1.1-2.6

2 x d₁

	ZBGF-S-CUT 2xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HB ALCR-89
BGF	GF7B682B.1229		
MJ	GF7B682B.1231		
ZBGF		GF7B682B.1232	GF7B622B.1232
5		GF7B682B.1233	GF7B622B.1233
6		GF7B682B.1235	GF7B622B.1235
8		GF7B682B.2026	GF7B622B.2026
10		GF7B682B.1764	GF7B622B.1764
10		GF7B682B.1236	GF7B622B.1236
10		GF7B682B.2308	GF7B622B.2308
12		GF7B682B.2310	GF7B622B.2310
12		GF7B682B.1237	GF7B622B.1237
12		GF7B682B.2056	GF7B622B.2056
12		GF7B682B.1912	GF7B622B.1912
14		GF7B682B.1238	GF7B622B.1238
14		GF7B682B.2505	GF7B622B.2505
16		GF7B682B.1239	GF7B622B.1239
16		GF7B682B.1955	GF7B622B.1955
20		GF7B682B.1954	GF7B622B.1954
24		GF7B682B.9222	GF7B622B.9222



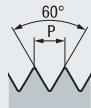
2,5 x d₁

	ZBGF-S-CUT 2,5xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HB ALCR-89
MJ	GF7C682B.1229		
4	GF7C682B.1231		
5		GF7C682B.1232	GF7C622B.1232
6		GF7C682B.1233	GF7C622B.1233
8		GF7C682B.1235	GF7C622B.1235
8		GF7C682B.2026	GF7C622B.2026
10		GF7C682B.1764	GF7C622B.1764
10		GF7C682B.1236	GF7C622B.1236
10		GF7C682B.2308	GF7C622B.2308
12		GF7C682B.2310	GF7C622B.2310
12		GF7C682B.1237	GF7C622B.1237
12		GF7C682B.2056	GF7C622B.2056
12		GF7C682B.1912	GF7C622B.1912
14		GF7C682B.1238	GF7C622B.1238
14		GF7C682B.2505	GF7C622B.2505
16		GF7C682B.1239	GF7C622B.1239
16		GF7C682B.1955	GF7C622B.1955
20		GF7C682B.1954	GF7C622B.1954
24		GF7C682B.9222	GF7C622B.9222

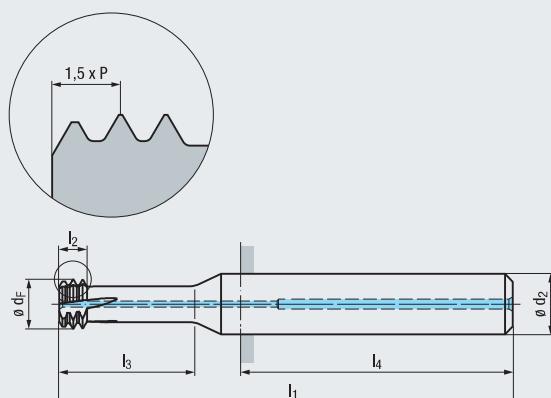
Gewindetiefe
Thread depth

	ZBGF-S-CUT 2,5xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HB ALCR-89
MJ	GF7C682B.1229		
4	GF7C682B.1231		
5		GF7C682B.1232	GF7C622B.1232
6		GF7C682B.1233	GF7C622B.1233
8		GF7C682B.1235	GF7C622B.1235
8		GF7C682B.2026	GF7C622B.2026
10		GF7C682B.1764	GF7C622B.1764
10		GF7C682B.1236	GF7C622B.1236
10		GF7C682B.2308	GF7C622B.2308
12		GF7C682B.2310	GF7C622B.2310
12		GF7C682B.1237	GF7C622B.1237
12		GF7C682B.2056	GF7C622B.2056
12		GF7C682B.1912	GF7C622B.1912
14		GF7C682B.1238	GF7C622B.1238
14		GF7C682B.2505	GF7C622B.2505
16		GF7C682B.1239	GF7C622B.1239
16		GF7C682B.1955	GF7C622B.1955
20		GF7C682B.1954	GF7C622B.1954
24		GF7C682B.9222	GF7C622B.9222



UNJC

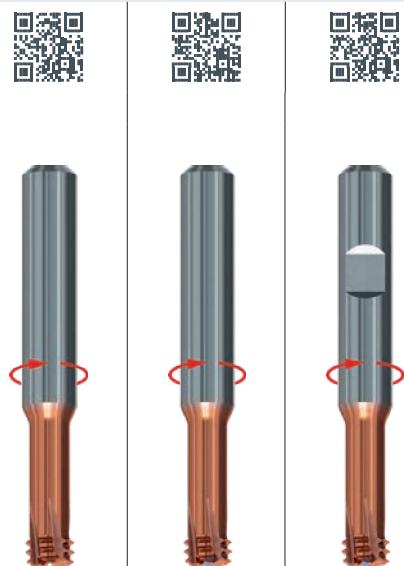
ASME B1.1 1)

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	ALCR 89
RH + LH	LH-rot.
L10	Z3 - Z5
DIN 6535	$\varnothing d_1$ HA HB
Zum Anfassen geeignet Suitable for chamfering	$\varnothing d_1$ HA HB

ZBGF-S-CUT

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	

2 x d_1

ZBGF-S-CUT 2xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HB ALCR-89
GF7B682B.5481		
GF7B682B.5482		
GF7B682B.5483		
	GF7B682B.5485	GF7B622B.5485
	GF7B682B.5486	GF7B622B.5486
	GF7B682B.5487	GF7B622B.5487
	GF7B682B.5488	GF7B622B.5488
	GF7B682B.5489	GF7B622B.5489
	GF7B682B.5490	GF7B622B.5490
	GF7B682B.5491	GF7B622B.5491
	GF7B682B.5492	GF7B622B.5492

Gewindetiefe
Thread depth

$\varnothing d_1$ inch	P Gg/1" (tpi)	$\varnothing d_F$ mm	$\varnothing d_2$	l_1	l_2	l_3	l_4	Z (Flutes)
Nr. 6	32	2,45	3	39	2,4	8,2	28	3
Nr. 8	32	3,1	4	40	2,4	9,5	28	3
Nr. 10	24	3,37	4	42	3,2	11,2	28	3
1/4	20	4,47	6	55	3,8	14,6	36	3
5/16	18	5,89	8	62	4,2	18	36	4
3/8	16	7,21	8	62	4,8	21,4	36	4
7/16	14	8,49	10	70	5,4	25	40	4
1/2	13	9,82	12	80	5,9	28,3	45	4
9/16	12	11,14	12	82	6,4	31,8	45	5
5/8	11	12,35	14	87	6,9	35,2	45	5
3/4	10	15,23	16	96	7,6	41,9	48	5

1) früher ASME B1.15
formerly ASME B1.15Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

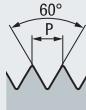
ZIRK-GF

Gigant

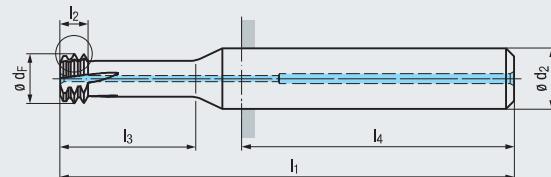
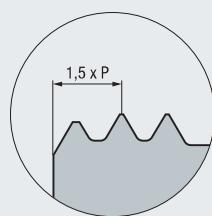
MoSys



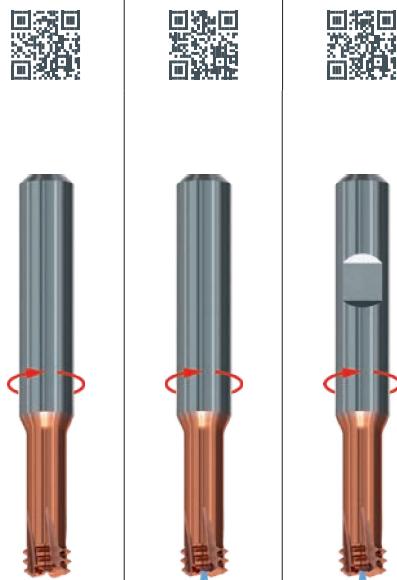
UNJF



ASME B1.1 1)



VHM Carbide	ALCR 89
RH + LH	LH-rot.
L10	Z4 - Z5
DIN 6535	Ø d ₁ HA HB
Zum Anfassen geeignet Suitable for chamfering	Ø d ₁ HA HB

ZBGF-S-CUT

P 1.1-5.1 M 1.1-4.1 K 1.1-4.2
N 1.1-5.3 S 1.1-2.6

2 x d₁

ZBGF-S-CUT 2xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2xd ₁ L10-IKZ-HB ALCR-89
GF7B682B.5507		
GF7B682B.5508		
GF7B682B.5509		
		GF7B622B.5511
		GF7B622B.5512
		GF7B622B.5513
		GF7B622B.5514
		GF7B622B.5515
		GF7B622B.5516
		GF7B622B.5517
		GF7B622B.5518

**2,5 x d₁**

ZBGF-S-CUT 2,5xd ₁ L10-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HA ALCR-89	ZBGF-S-CUT 2,5xd ₁ L10-IKZ-HB ALCR-89
GF7C682B.5507		
GF7C682B.5508		
GF7C682B.5509		
		GF7C622B.5511
		GF7C622B.5512
		GF7C622B.5513
		GF7C622B.5514
		GF7C622B.5515
		GF7C622B.5516
		GF7C622B.5517
		GF7C622B.5518

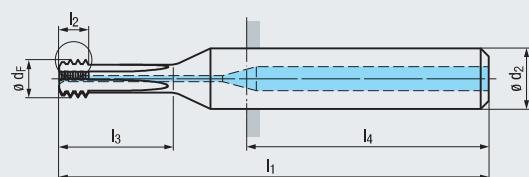
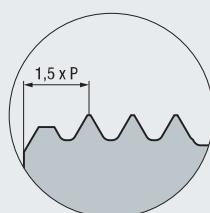
Weitere Ausführungen auf Anfrage
Further designs upon request

1) früher ASME B1.15
formerly ASME B1.15





DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN T46
RH + LH	LH-rot.
Z4 - Z5	
DIN 6535	
HA	
Zum Anfassen geeignet Suitable for chamfering	

new



new

N 2,7-2,8
H 1,1-1,5**2 x d₁**ZBGF-HCUT
2xd₁
HA
TIALN-T46ZBGF-HCUT
2xd₁
IKZ-HA
TIALN-T46

new



new

Gewindetiefe
Thread depthZBGF-HCUT
2,5xd₁
HA
TIALN-T46ZBGF-HCUT
2,5xd₁
IKZ-HA
TIALN-T46**2,5 x d₁**

∅ d ₁ mm	P mm	∅ d _F mm	∅ d ₂	l ₁	l ₂	l ₃	l ₄	Z (Flutes)
M 3	0,5	2,3	6	51	2	8,5	36	4
4	0,7	3	6	55	2,8	11,4	36	4
5	0,8	3,8	6	55	3,2	14,1	36	4
6	1	4,6	6	58	4	17	36	4
8	1,25	6,2	8	65	5	22,5	36	4
10	1,5	7,8	8	68	6	28	36	4
12	1,75	9,5	10	78	7	33,5	40	4
14	2	11,1	12	90	8	39	45	4
16	2	13,1	14	95	8	44	45	5

Weitere Ausführungen auf Anfrage
Further designs upon requestGewinde-Tiefenlehrdorne
siehe Seite 588 - 591Thread depth plug gauges,
see page 588 - 591

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

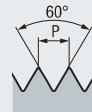
Pg

MJ
UNJC, UNJF

EG (STI)

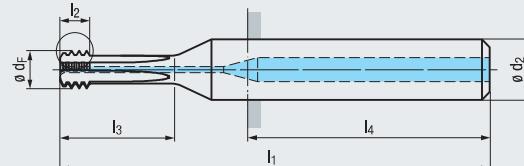
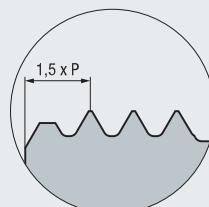
SELF-LOCK

Tr

Zubehör
Accessories

UNC

ASME B1.1



VHM Carbide	TIALN T46
RH + LH	LH-rot.

Z3 - Z5	DIN 6535

Zum Anfassen geeignet Suitable for chamfering

new



new



N 2,7-2,8

H 1,1-1,5

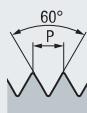
2 x d₁ZBGF-HCUT
2xd₁
TIALN-T46ZBGF-HCUT
2xd₁
IKZ-HA
TIALN-T46

new

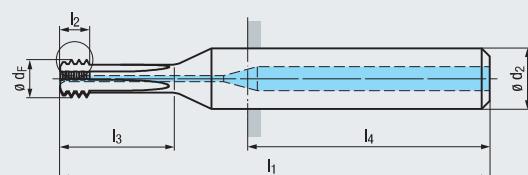
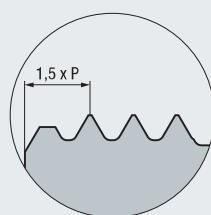


new

**2,5 x d₁**ZBGF-HCUT
2,5xd₁
TIALN-T46ZBGF-HCUT
2,5xd₁
IKZ-HA
TIALN-T46Weitere Ausführungen auf Anfrage
Further designs upon request

UNF

ASME B1.1

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN T46
RH + LH	LH-rot.
Z4 - Z5	
DIN 6535	$\emptyset d_1$
HA	
Zum Anfassen geeignet Suitable for chamfering	

new



new

N 2,7-2,8
H 1,1-1,5**2 x d_1** ZBGF-HCUT
2xd₁
HA
TIALN-T46

GF733709.5041

ZBGF-HCUT
2xd₁
IKZ-HA
TIALN-T46

GF733709.5043

GF733709.5044

GF733709.5045

GF733709.5046

GF733709.5047

GF733709.5048

GF733709.5049

GF733709.5050

new



new

Gewindetiefe
Thread depth

$\emptyset d_1$ inch	P Gg/1" (tpi)	$\emptyset d_F$ mm	$\emptyset d_2$	l_1	l_2	l_3	l_4	Z (Flutes)
Nr.10	32	3,5	6	52	3,2	11,2	36	4
1/4	28	4,8	6	55	3,6	14,5	36	4
5/16	24	6,2	8	60	4,2	18	36	4
3/8	24	7,7	8	62	4,2	21,2	36	4
7/16	20	8,9	10	70	5,1	24,8	40	4
1/2	20	10,5	12	80	5,1	27,9	45	4
9/16	18	11,8	12	80	5,6	31,4	45	4
5/8	18	13,3	14	85	5,6	34,6	45	5
3/4	16	15,9	16	95	6,4	41,3	48	5

new

**2,5 x d_1** ZBGF-HCUT
2,5xd₁
HA
TIALN-T46

GF743709.5041

ZBGF-HCUT
2,5xd₁
IKZ-HA
TIALN-T46

GF743709.5043

GF743709.5044

GF743709.5045

GF743709.5046

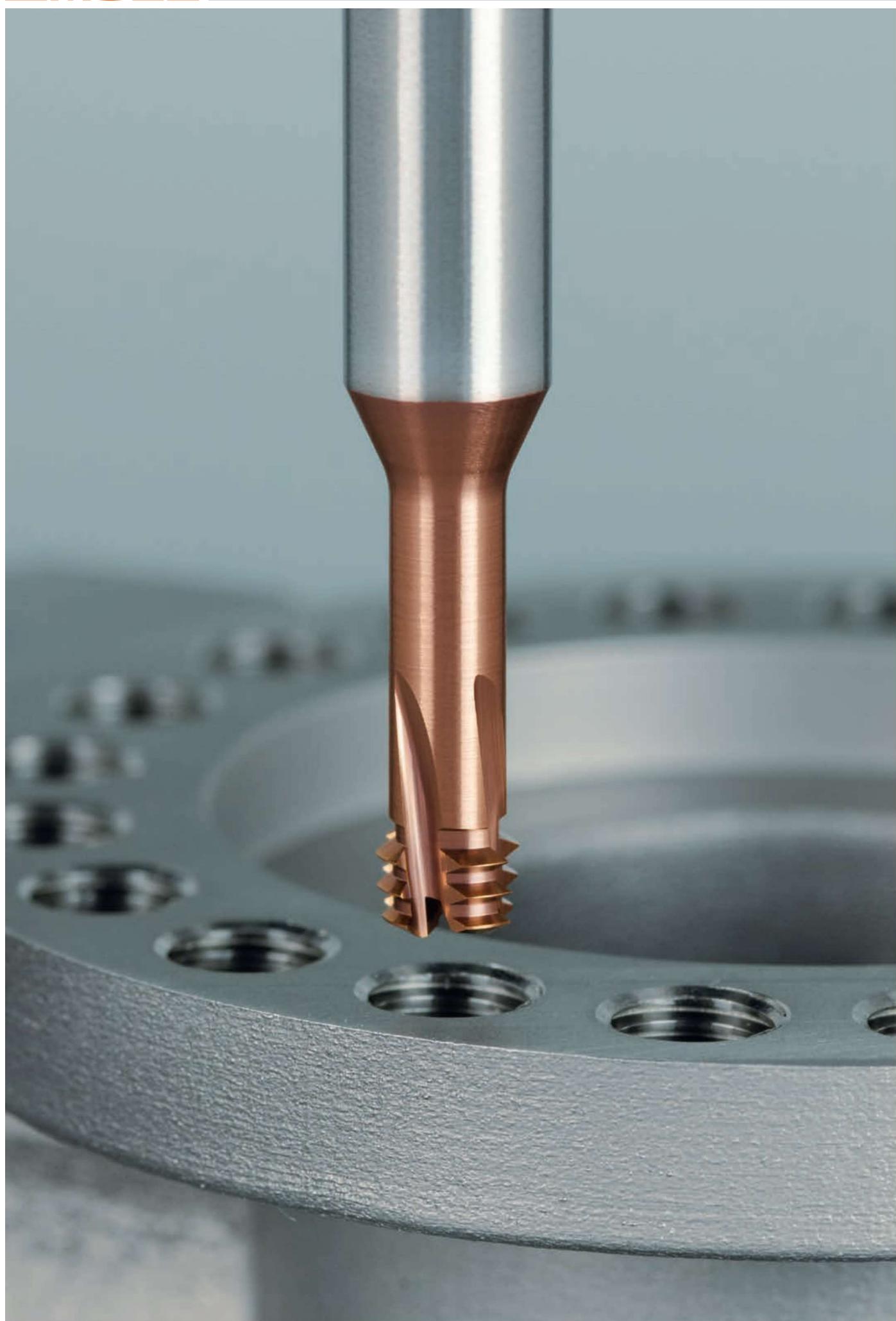
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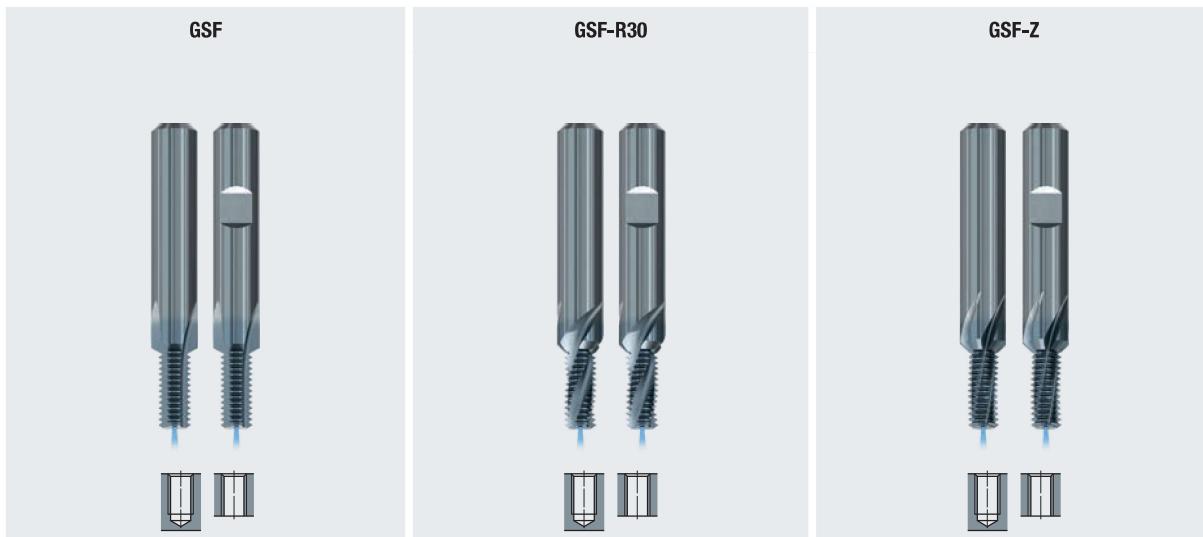
GF743709.5048

GF743709.5049

GF743709.5050



[Product Finder](#)[v_c / f_z](#)[M](#)[MF](#)[UNC
UN, UNS](#)[UNF
UNEF](#)[G, Rp](#)[NPT, NPTF
Rc, W](#)[BSW, BSF](#)[Pg](#)[MJ
UNJC, UNJF](#)[EG \(STI\)](#)[SELF-LOCK](#)[Tr](#)[Zubehör
Accessories](#)[BGF](#)[ZBGF](#)[GSF](#)[GF](#)[GF-VZ](#)[GF-KEG](#)[ZGF](#)[ZIRK-GF](#)[Gigant](#)[MoSys](#)



Seite · Page

406 - 407	408 - 409	410 - 411	M
412 - 413	414 - 415	416 - 417	MF
	418 - 419		UNC
	420 - 421		UNF
	422 - 423		G (BSP)
424 - 425			LK-M

Mögliche Modifikationen siehe Seite 356 - 357

Possible modifications, see pages 356 - 357

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

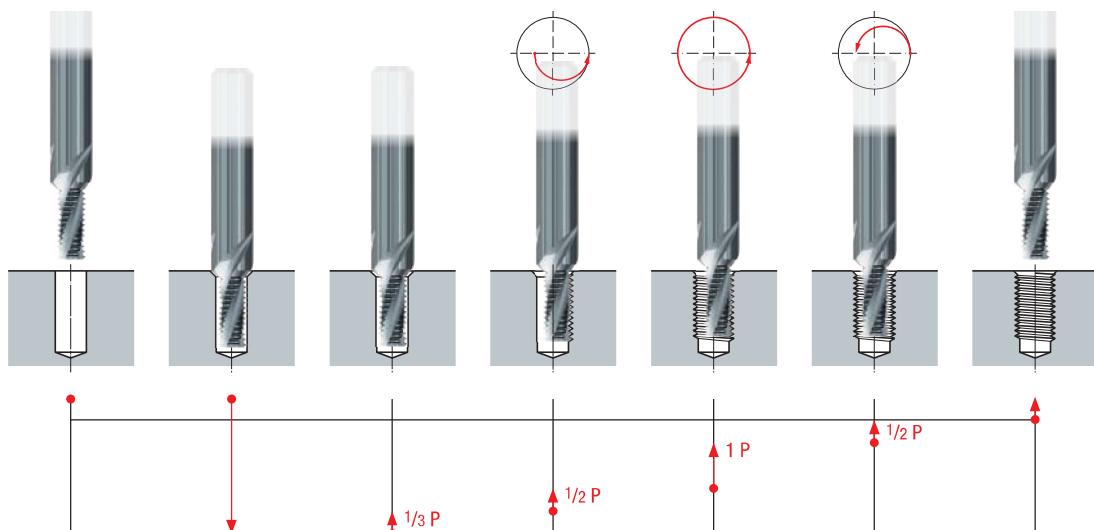
ZIRK-GF

Gigant

MoSys



Gewindefräsyklus · Thread milling cycle



Product Finder

v_c / f_z

M

MF

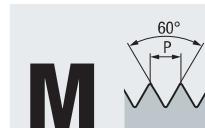
UNC
UN, UNSUNF
UNEF

G, Rp

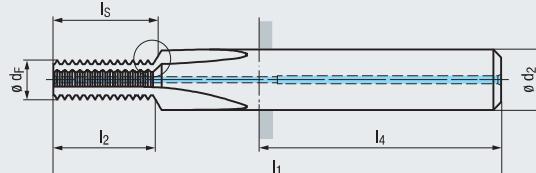
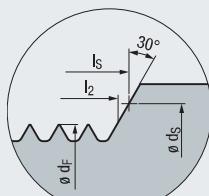
NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

DIN 13

VHM
Carbide

RH + LH

Z3 - Z4

DIN 6535

HA

HB

120°

Ø d₁

GSF



P 1.1-5.1 K 1.1-4.2 N 1.1-1.5, 2.1-2.6

N 3.1-4.2 N 5.1-5.2 S 1.1-1.3

1,5 x d₁GSF
1,5xd₁
HAGSF
1,5xd₁
IKZ-HAGSF
1,5xd₁
IKZ-HB

GF303701.0030

GF323701.0040

GF323101.0040

GF323701.0050

GF323101.0050

GF323101.0060

GF323701.0060

GF323101.0080

GF323101.0080

GF323701.0080

GF323101.0100

GF323101.0100

GF323701.0112

GF323101.0112

GF323101.0112

GF323701.0114

GF323101.0114

GF323101.0114

GF323701.0116

GF323101.0116

GF323101.0116



ZGF

Gewindetiefe

Thread depth

2 x d₁

GSF

2xd₁

IKZ-HA

GSF

2xd₁

IKZ-HB

GF313701.0030

GF333701.0040

GF333101.0040

GF333701.0050

GF333101.0050

GF333101.0060

GF333701.0060

GF333101.0080

GF333101.0080

GF333701.0080

GF333101.0100

GF333101.0100

GF333701.0100

GF333101.0112

GF333101.0112

GF333701.0114

GF333101.0114

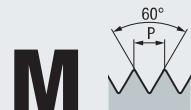
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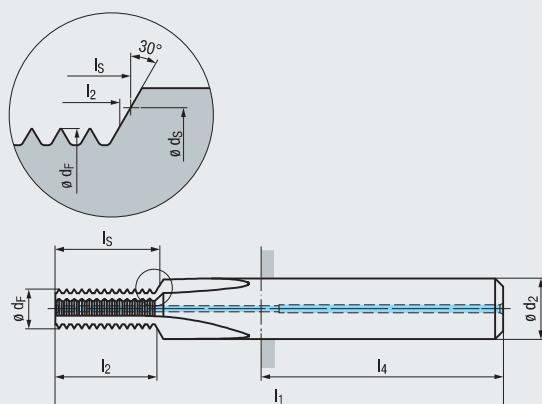
GF333101.0116

GF333101.0116

Weitere Ausführungen auf Anfrage
Further designs upon requestSpannzangen-Aufnahmen
Typ KSN/Synchro
siehe Seite 675 - 676Collet holders
type KSN/Synchro,
see page 675 - 676



DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depthVHM
Carbide

TICN

RH + LH

Z3 - Z4

DIN 6535

120°

Ø d₁

GSF



P	1.1-5.1	M	1.1-4.1	K	1.1-4.2
N	1.1-5.3	S	1.1-2.6	H	1.1-1.2

1,5 x d₁

Ø d ₁ mm	P mm	Ø d _f mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l _s	Z (Flutes)	GSF 1,5xd ₁ HA TICN	GSF 1,5xd ₁ IKZ-HA TICN	GSF 1,5xd ₁ IKZ-HB TICN
										GF303706.0030	GF323106.0040	GF323106.0050
M 3	0,5	2,4	4	3,2	42	4,7	28	5	3			
4	0,7	3,15	6	4,2	55	5,9	36	6,2	3			
5	0,8	4	6	5,3	55	7,6	36	8	3			
6	1	4,8	8	6,3	62	9,5	36	9,9	3			
8	1,25	6,5	10	8,4	74	13,1	40	13,7	3			
10	1,5	8,2	12	10,5	80	15,7	45	16,4	3			
12	1,75	9,9	14	12,6	90	18,3	45	19,1	4			
14	2	11,6	16	14,7	100	23	48	23,9	4			
16	2	13,6	18	16,8	102	25	48	25,9	4			

Gewindetiefe
Thread depth2 x d₁

Ø d ₁ mm	P mm	Ø d _f mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l _s	Z (Flutes)	GSF 2xd ₁ HA TICN	GSF 2xd ₁ IKZ-HA TICN	GSF 2xd ₁ IKZ-HB TICN
										GF313706.0030	GF333106.0040	GF333106.0050
M 3	0,5	2,4	4	3,2	42	6,2	28	6,5	3			
4	0,7	3,15	6	4,2	55	8,7	36	9	3			
5	0,8	4	6	5,3	55	10,8	36	11,2	3			
6	1	4,8	8	6,3	62	12,5	36	12,9	3			
8	1,25	6,5	10	8,4	74	16,8	40	17,4	3			
10	1,5	8,2	12	10,5	80	20,2	45	20,9	3			
12	1,75	9,9	14	12,6	90	25,3	45	26,1	4			
14	2	11,6	16	14,7	100	29	48	29,9	4			
16	2	13,6	18	16,8	102	33	48	33,9	4			

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_v

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product Finder

v_c / f_z

M

MF

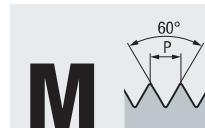
UNC
UN, UNSUNF
UNEF

G, Rp

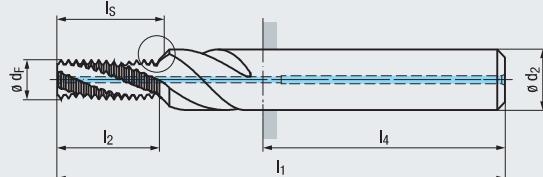
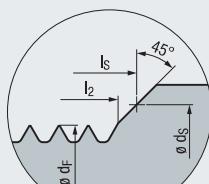
NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

DIN 13

VHM
Carbide

R30

RH + LH

Z3 - Z4 DIN 6535



DIN 6535



90°

ø d₁ø d₁

GSF-R30



EG (STI)

Einsatzgebiete – Material
Applications – material

» 358

P 1.1-3.1 K 1.1-4.2 N 1.1-1.5, 2.1-2.6

N 3.1-4.2 N 5.1-5.2 S 1.1-1.2

SELF-LOCK

Gewindetiefe
Thread depth1,5 x d₁

Tr

Zubehör
Accessories

	ø d ₁ mm	P mm	ø d _F mm	ø d ₂	ø d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)	GSF 1,5xd ₁ R30-IKZ-HA	GSF 1,5xd ₁ R30-IKZ-HB
M	5	0,8	4	6	5,3	55	7,6	36	8,2	3	GF322701.0050	GF322101.0050
	6	1	4,8	8	6,3	62	9,5	36	10,2	3	GF322701.0060	GF322101.0060
BGF	8	1,25	6,5	10	8,4	74	13,2	40	14	3	GF322701.0080	GF322101.0080
	10	1,5	8,2	12	10,5	80	15,8	45	16,8	3	GF322701.0100	GF322101.0100
ZBGF	12	1,75	9,9	14	12,6	90	18,4	45	19,6	4	GF322701.0112	GF322101.0112
	14	2	11,6	16	14,7	100	23,1	48	24,4	4	GF322701.0114	GF322101.0114
GSF	16	2	13,6	18	16,8	102	25,1	48	26,5	4	GF322701.0116	GF322101.0116

GF



GF-VZ

GF-KEG

Gewindetiefe
Thread depth2 x d₁

ZGF

ZIRK-GF

	ø d ₁ mm	P mm	ø d _F mm	ø d ₂	ø d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)	GSF 2xd ₁ R30-IKZ-HA	GSF 2xd ₁ R30-IKZ-HB
Gigant	5	0,8	4	6	5,3	55	10,8	36	11,4	3	GF332701.0050	GF332101.0050
	6	1	4,8	8	6,3	62	12,5	36	13,2	3	GF332701.0060	GF332101.0060
MoSys	8	1,25	6,5	10	8,4	74	16,9	40	17,8	3	GF332701.0080	GF332101.0080
	10	1,5	8,2	12	10,5	80	20,3	45	21,3	3	GF332701.0100	GF332101.0100
	12	1,75	9,9	14	12,6	90	25,4	45	26,6	4	GF332701.0112	GF332101.0112
	14	2	11,6	16	14,7	100	29,1	48	30,4	4	GF332701.0114	GF332101.0114
	16	2	13,6	18	16,8	102	33,1	48	34,5	4	GF332701.0116	GF332101.0116

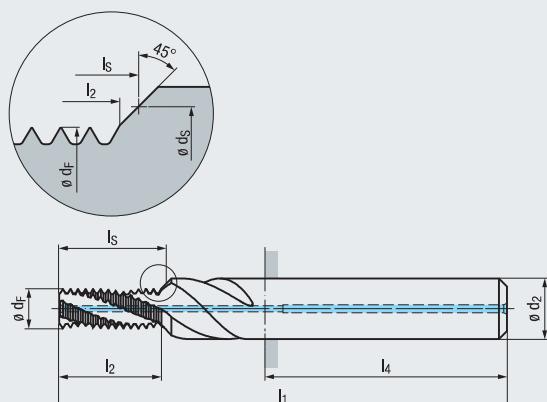
Gewindetiefe
Thread depth2,5 x d₁

	ø d ₁ mm	P mm	ø d _F mm	ø d ₂	ø d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)	GSF 2,5xd ₁ R30-IKZ-HA	GSF 2,5xd ₁ R30-IKZ-HB
M	5	0,8	4	6	5,3	58	13,2	36	13,8	3	GF342701.0050	GF342101.0050
	6	1	4,8	8	6,3	65	15,5	36	16,2	3	GF342701.0060	GF342101.0060
	8	1,25	6,5	10	8,4	78	20,7	40	21,5	3	GF342701.0080	GF342101.0080
	10	1,5	8,2	12	10,5	85	26,3	45	27,3	3	GF342701.0100	GF342101.0100
	12	1,75	9,9	14	12,6	95	30,7	45	31,9	4	GF342701.0112	GF342101.0112
	16	2	13,6	18	16,8	110	41,1	48	42,5	4	GF342701.0116	GF342101.0116

Weitere Ausführungen auf Anfrage
Further designs upon request



DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R30	RH + LH
Z3 - Z4	DIN 6535
	HA HB
90°	Ø d ₁
	Ø d ₂

GSF-R30



P	1,1-3,1	M	1,1-2,1	K	1,1-4,2
N	1,1-2,7	N	3,1-5,3	S	1,1-1,2, 2,1

1,5 x d₁

Ø d ₁ mm	P mm	Ø d _f mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l _s	Z (Flutes)	GSF 1,5xd ₁ R30-IKZ-HA TiCN	GSF 1,5xd ₁ R30-IKZ-HB TiCN
M 5	0,8	4	6	5,3	55	7,6	36	8,2	3	GF322706.0050	GF322106.0050
6	1	4,8	8	6,3	62	9,5	36	10,2	3	GF322706.0060	GF322106.0060
8	1,25	6,5	10	8,4	74	13,2	40	14	3	GF322706.0080	GF322106.0080
10	1,5	8,2	12	10,5	80	15,8	45	16,8	3	GF322706.0100	GF322106.0100
12	1,75	9,9	14	12,6	90	18,4	45	19,6	4	GF322706.0112	GF322106.0112
14	2	11,6	16	14,7	100	23,1	48	24,4	4	GF322706.0114	GF322106.0114
16	2	13,6	18	16,8	102	25,1	48	26,5	4	GF322706.0116	GF322106.0116



Ø d ₁ mm	P mm	Ø d _f mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l _s	Z (Flutes)	GSF 2xd ₁ R30-IKZ-HA TiCN	GSF 2xd ₁ R30-IKZ-HB TiCN
M 5	0,8	4	6	5,3	55	10,8	36	11,4	3	GF332706.0050	GF332106.0050
6	1	4,8	8	6,3	62	12,5	36	13,2	3	GF332706.0060	GF332106.0060
8	1,25	6,5	10	8,4	74	16,9	40	17,8	3	GF332706.0080	GF332106.0080
10	1,5	8,2	12	10,5	80	20,3	45	21,3	3	GF332706.0100	GF332106.0100
12	1,75	9,9	14	12,6	90	25,4	45	26,6	4	GF332706.0112	GF332106.0112
14	2	11,6	16	14,7	100	29,1	48	30,4	4	GF332706.0114	GF332106.0114
16	2	13,6	18	16,8	102	33,1	48	34,5	4	GF332706.0116	GF332106.0116



Ø d ₁ mm	P mm	Ø d _f mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l _s	Z (Flutes)	GSF 2,5xd ₁ R30-IKZ-HA TiCN	GSF 2,5xd ₁ R30-IKZ-HB TiCN
M 5	0,8	4	6	5,3	58	13,2	36	13,8	3	GF342706.0050	GF342106.0050
6	1	4,8	8	6,3	65	15,5	36	16,2	3	GF342706.0060	GF342106.0060
8	1,25	6,5	10	8,4	78	20,7	40	21,5	3	GF342706.0080	GF342106.0080
10	1,5	8,2	12	10,5	85	26,3	45	27,3	3	GF342706.0100	GF342106.0100
12	1,75	9,9	14	12,6	95	30,7	45	31,9	4	GF342706.0112	GF342106.0112
14	2	11,6	16	14,7	110	41,1	48	42,5	4	GF342706.0116	GF342106.0116

**2,5 x d₁**Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

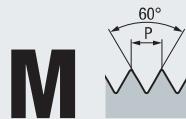
Pg

MJ
UNJC, UNJF

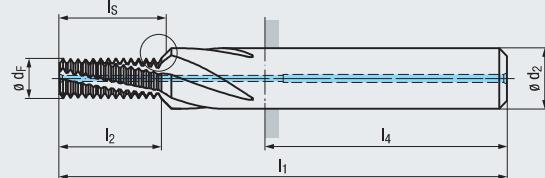
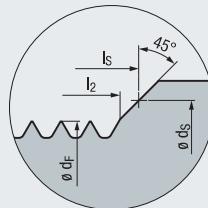
EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

DIN 13

Einsatzgebiete – Material
Applications – material

► 358

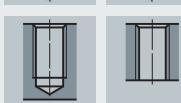
VHM
Carbide

R15

RH + LH

Z4 - Z5

DIN 6535



GSF-Z

Mit höherer Nutenzahl
With increased number of flutes

P	1.1-5.1	K	1.1-4.2	N	1.1-1.5, 2.1-2.6
N	3.1-4.2	N	5.1-5.2	S	1.1-1.3

2 x d₁GSF-Z
2xd₁
R15-IKZ-HAGSF-Z
2xd₁
R15-IKZ-HBWeitere Ausführungen auf Anfrage
Further designs upon request

BGF

	Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l ₅	Z (Flutes)
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ZBGF

M	6	1	4,8	8	6,3	62	12,5	36	13,2	4
	8	1,25	6,5	10	8,4	74	16,9	40	17,7	4

GSF

	10	1,5	8,2	12	10,5	80	20,3	45	21,3	5
	12	1,75	9,9	14	12,6	90	25,4	45	26,6	5

GF

GF-VZ										
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GF-KEG

ZGF										
-----	--	--	--	--	--	--	--	--	--	--

ZIRK-GF

Gigant										
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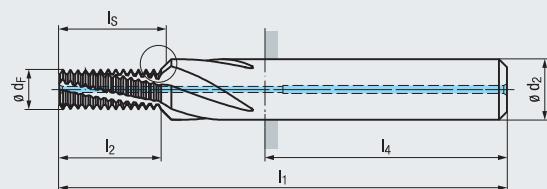
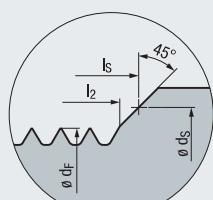
MoSys

MoSys										
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DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R15	RH + LH
Z4 - Z5	DIN 6535
	HA HB
90°	Ø d ₁
	Ø d ₂

GSF-Z

Mit höherer Nutenzahl
With increased number of flutes

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

2 x d₁

Ø d ₁ mm	P mm	Ø d _f mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)
M 6	1	4,8	8	6,3	62	12,5	36	13,2	4
8	1,25	6,5	10	8,4	74	16,9	40	17,7	4
10	1,5	8,2	12	10,5	80	20,3	45	21,3	5
12	1,75	9,9	14	12,6	90	25,4	45	26,6	5

GSF-Z
2xd₁
R15-IKZ-HA
TiCNGSF-Z
2xd₁
R15-IKZ-HB
TiCNWeitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

UNC UN, UNS

UNF UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Spiralbohrer siehe Seite 11 - 70

Twist drills, see page 11 - 70

Product
Finderv_c / f_z

M

MF

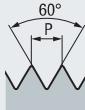
UNC
UN, UNSUNF
UNEF

G, Rp

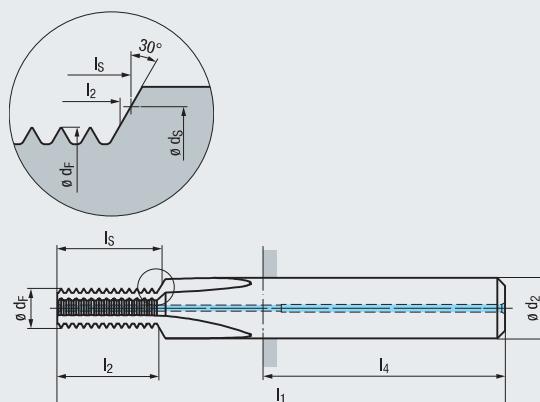
NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF**MF**

DIN 13

VHM
Carbide

RH + LH

Z3 - Z4 DIN 6535



GSF



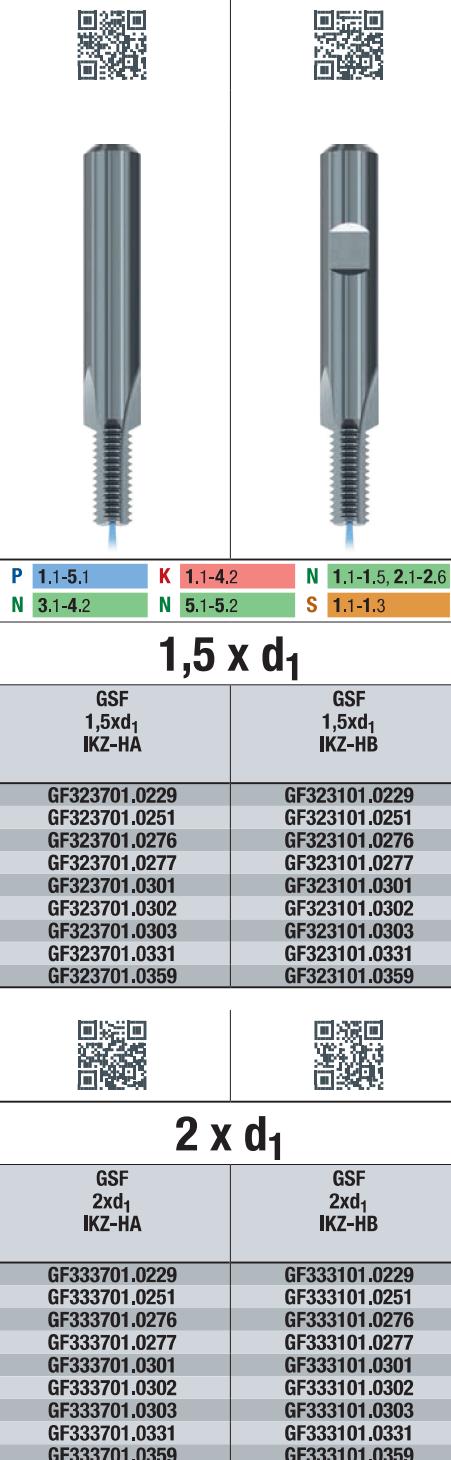
P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

1,5 x d₁

	GSF 1,5xd ₁ IKZ-HA	GSF 1,5xd ₁ IKZ-HB
M	GF323701.0229	GF323101.0229
8 x 1	GF323701.0251	GF323101.0251
BGF 10 x 1	GF323701.0276	GF323101.0276
10 x 1,25	GF323701.0277	GF323101.0277
ZBGF 12 x 1	GF323701.0301	GF323101.0301
12 x 1,25	GF323701.0302	GF323101.0302
GSF 12 x 1,5	GF323701.0303	GF323101.0303
14 x 1,5	GF323701.0331	GF323101.0331
GF 16 x 1,5	GF323701.0359	GF323101.0359

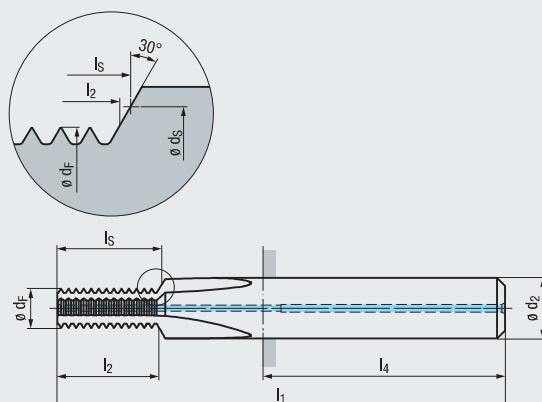


	GSF 2xd ₁ IKZ-HA	GSF 2xd ₁ IKZ-HB
M 6 x 0,75	GF333701.0229	GF333101.0229
8 x 1	GF333701.0251	GF333101.0251
BGF 10 x 1	GF333701.0276	GF333101.0276
10 x 1,25	GF333701.0277	GF333101.0277
ZBGF 12 x 1	GF333701.0301	GF333101.0301
12 x 1,25	GF333701.0302	GF333101.0302
GSF 12 x 1,5	GF333701.0303	GF333101.0303
14 x 1,5	GF333701.0331	GF333101.0331
GF 16 x 1,5	GF333701.0359	GF333101.0359

Weitere Ausführungen auf Anfrage
Further designs upon request



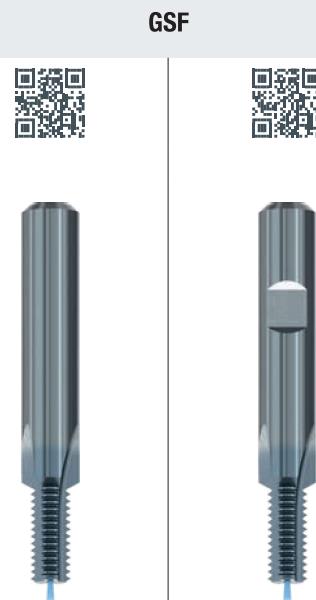
DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
RH + LH	
Z3 - Z4	DIN 6535
	HA
	HB
120°	Ø d1



P	1.1-5.1	M	1.1-4.1	K	1.1-4.2
N	1.1-5.3	S	1.1-2.6	H	1.1-1.2

1,5 x d₁

			GSF 1,5xd ₁ IKZ-HA TiCN	GSF 1,5xd ₁ IKZ-HB TiCN
M	6 x 0,75	5	8	6,3
	8 x 1	6,7	10	8,4
	10 x 1	8,7	12	10,5
	10 x 1,25	8,4	12	10,5
	12 x 1	10,6	14	12,6
	12 x 1,25	10,4	14	12,6
	12 x 1,5	10,1	14	12,6
	14 x 1,5	12,1	16	14,7
	16 x 1,5	14	18	16,8
			l ₁	l ₂
			l ₄	l _s
			Z (Flutes)	

Gewindetiefe
Thread depth**2 x d₁**

			GSF 2xd ₁ IKZ-HA TiCN	GSF 2xd ₁ IKZ-HB TiCN
M	6 x 0,75	5	8	6,3
	8 x 1	6,7	10	8,4
	10 x 1	8,7	12	10,5
	10 x 1,25	8,4	12	10,5
	12 x 1	10,6	14	12,6
	12 x 1,25	10,4	14	12,6
	12 x 1,5	10,1	14	12,6
	14 x 1,5	12,1	16	14,7
	16 x 1,5	14	18	16,8
			l ₁	l ₂
			l ₄	l _s
			Z (Flutes)	

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_v

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

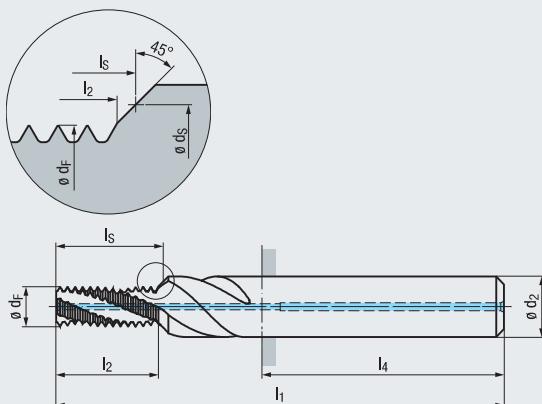
NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

DIN 13

VHM
Carbide

R30

RH + LH

Z3 - Z4 DIN 6535



DIN 6535



90°

 $\emptyset d_1$  $\emptyset d_1$

GSF-R30



EG (STI)

Einsatzgebiete – Material
Applications – material

► 358

P 1.1-3.1

N 3.1-4.2

K 1.1-4.2

N 5.1-5.2

N 1.1-1.5, 2.1-2.6

S 1.1-1.2

SELF-LOCK

Gewindetiefe
Thread depth1,5 x d_1

Tr

Zubehör
Accessories

	$\emptyset d_1$ mm	P mm	$\emptyset d_F$ mm	$\emptyset d_2$	$\emptyset d_S$	l_1	l_2	l_4	l_S (Flutes)	Z	
M	6 x	0,75	5	8	6,3	62	9,4	36	10	3	GF322701.0229
	8 x	1	6,7	10	8,4	74	12,5	40	13,3	3	GF322701.0251
BGF	10 x	1	8,7	12	10,5	80	15,5	45	16,3	3	GF322701.0276
	10 x	1,25	8,4	12	10,5	80	15,7	45	16,6	3	GF322701.0277
ZBGF	12 x	1	10,6	14	12,6	90	18,6	45	19,4	4	GF322701.0301
	12 x	1,25	10,4	14	12,6	90	18,2	45	19,1	4	GF322701.0302
GSF	12 x	1,5	10,1	14	12,6	90	18,8	45	19,9	4	GF322701.0303
	14 x	1,5	12,1	16	14,7	100	21,8	48	23	4	GF322701.0331
GF	16 x	1,5	14	18	16,8	102	24,8	48	26,1	4	GF322701.0359

GF-VZ



GF-KEG

ZGF

Gewindetiefe
Thread depth2 x d_1

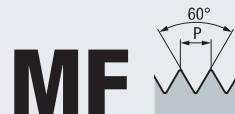
ZIRK-GF

Gigant

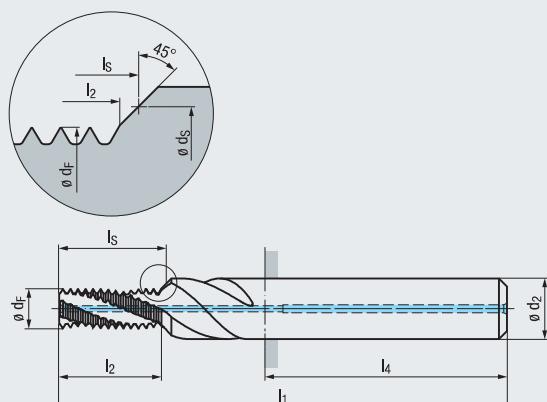
	$\emptyset d_1$ mm	P mm	$\emptyset d_F$ mm	$\emptyset d_2$	$\emptyset d_S$	l_1	l_2	l_4	l_S (Flutes)	Z	
M	6 x	0,75	5	8	6,3	62	12,4	36	13	3	GF332701.0229
	8 x	1	6,7	10	8,4	74	16,5	40	17,3	3	GF332701.0251
BGF	10 x	1	8,7	12	10,5	80	20,5	45	21,3	3	GF332701.0276
	10 x	1,25	8,4	12	10,5	80	20,7	45	21,6	3	GF332701.0277
ZBGF	12 x	1	10,6	14	12,6	90	24,6	45	25,4	4	GF332701.0301
	12 x	1,25	10,4	14	12,6	90	24,4	45	25,4	4	GF332701.0302
GSF	12 x	1,5	10,1	14	12,6	90	24,8	45	25,9	4	GF332701.0303
	14 x	1,5	12,1	16	14,7	100	29,3	48	30,5	4	GF332701.0331
GF	16 x	1,5	14	18	16,8	102	32,3	48	33,6	4	GF332701.0359

Weitere Ausführungen auf Anfrage
Further designs upon request

	$\emptyset d_1$ mm	P mm	$\emptyset d_F$ mm	$\emptyset d_2$	$\emptyset d_S$	l_1	l_2	l_4	l_S (Flutes)	Z	
M	6 x	0,75	5	8	6,3	62	12,4	36	13	3	GF332701.0229
	8 x	1	6,7	10	8,4	74	16,5	40	17,3	3	GF332701.0251
BGF	10 x	1	8,7	12	10,5	80	20,5	45	21,3	3	GF332701.0276
	10 x	1,25	8,4	12	10,5	80	20,7	45	21,6	3	GF332701.0277
ZBGF	12 x	1	10,6	14	12,6	90	24,6	45	25,4	4	GF332701.0301
	12 x	1,25	10,4	14	12,6	90	24,4	45	25,4	4	GF332701.0302
GSF	12 x	1,5	10,1	14	12,6	90	24,8	45	25,9	4	GF332701.0303
	14 x	1,5	12,1	16	14,7	100	29,3	48	30,5	4	GF332701.0331
GF	16 x	1,5	14	18	16,8	102	32,3	48	33,6	4	GF332701.0359



DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R30	RH + LH
Z3 - Z4	DIN 6535
	HA HB
90°	Ø d ₁
	Ø d ₂

GSF-R30



P	1.1-3.1	M	1.1-2.1	K	1.1-4.2
N	1.1-2.7	N	3.1-5.3	S	1.1-1.2, 2.1

1,5 x d₁

	GSF 1,5x d ₁ R30-IKZ-HA TiCN	GSF 1,5x d ₁ R30-IKZ-HB TiCN
M	GF322706.0229	GF322106.0229
8	GF322706.0251	GF322106.0251
10	GF322706.0276	GF322106.0276
10	GF322706.0277	GF322106.0277
12	GF322706.0301	GF322106.0301
12	GF322706.0302	GF322106.0302
12	GF322706.0303	GF322106.0303
14	GF322706.0331	GF322106.0331
16	GF322706.0359	GF322106.0359

Gewindetiefe
Thread depth**2 x d₁**

	GSF 2x d ₁ R30-IKZ-HA TiCN	GSF 2x d ₁ R30-IKZ-HB TiCN
M	GF332706.0229	GF332106.0229
8	GF332706.0251	GF332106.0251
10	GF332706.0276	GF332106.0276
10	GF332706.0277	GF332106.0277
12	GF332706.0301	GF332106.0301
12	GF332706.0302	GF332106.0302
12	GF332706.0303	GF332106.0303
14	GF332706.0331	GF332106.0331
16	GF332706.0359	GF332106.0359

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_v

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

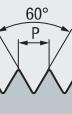
GF-KEG

ZGF

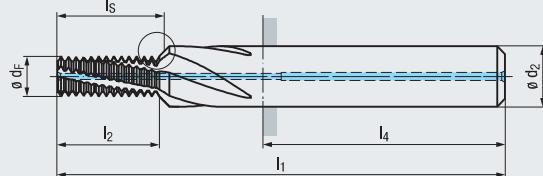
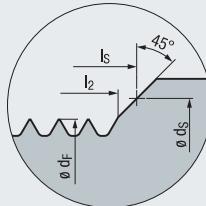
ZIRK-GF

Gigant

MoSys

**MF**

DIN 13

Einsatzgebiete – Material
Applications – material

► 358

VHM
Carbide

R15

RH + LH

Z4 - Z5

DIN 6535



HA

HB



90°

d₁d₂**GSF-Z**Mit höherer Nutenzahl
With increased number of flutes

P | 1.1-5.1 K | 1.1-4.2 N | 1.1-1.5, 2.1-2.6

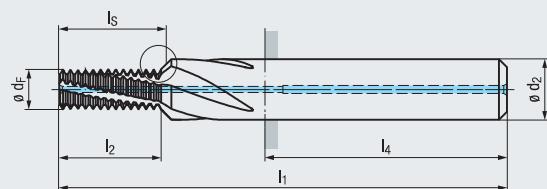
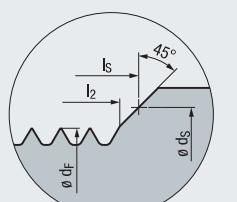
N | 3.1-4.2 N | 5.1-5.2 S | 1.1-1.3

2 x d₁GSF-Z
2xd₁
R15-IKZ-HAGSF-Z
2xd₁
R15-IKZ-HBWeitere Ausführungen auf Anfrage
Further designs upon request

Kühlschmierstoffe siehe Seite 300 - 301 Coolant-lubricants, see page 300 - 301



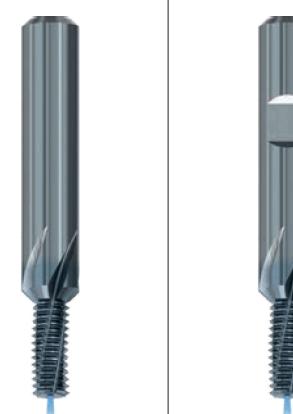
DIN 13

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R15	RH + LH
Z4 - Z5	DIN 6535
	HA HB
	90°
	Ø d ₁
	Ø d ₂

Mit höherer Nutenzahl
With increased number of flutes

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

2 x d₁

Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)
M 8 x	1	6,7	10	8,4	74	16,5	40	17,3	4
10 x	1	8,7	12	10,5	80	20,5	45	21,3	5
12 x	1,25	10,4	14	12,6	90	24,4	45	25,4	5

GSF-Z
2xd₁
R15-IKZ-HA
TiCNGSF-Z
2xd₁
R15-IKZ-HB
TiCNWeitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

UNC

ASME B1.1

VHM
Carbide

R30

RH + LH

Z3 - Z5

DIN 6535

HA
HBø d₁

GSF-R30



EG (STI)

Einsatzgebiete – Material
Applications – material

» 358

P 1.1-3.1

K 1.1-4.2

N 1.1-1.5, 2.1-2.6

N 3.1-4.2

N 5.1-5.2

S 1.1-1.2

1,5 x d₁

SELF-LOCK

Gewindetiefe

Thread depth

Tr

Zubehör
Accessories

	∅ d ₁ inch	P Gg/1" (tpi)	∅ d _F mm	∅ d ₂	∅ d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)	GSF 1,5xd ₁ R30-IKZ-HA	GSF 1,5xd ₁ R30-IKZ-HB
BGF	1/4	20	4,7	8	6,7	62	10,8	36	11,7	3	GF322701.5009	GF322101.5009
	5/16	18	6,15	10	8,3	74	13,4	40	14,4	3	GF322701.5010	GF322101.5010
ZBGF	3/8	16	7,65	12	10	80	15,1	45	16,2	3	GF322701.5011	GF322101.5011
	7/16	14	9	12	11,7	80	17,3	45	18,5	3	GF322701.5012	GF322101.5012
GSF	1/2	13	10,35	14	13,3	90	20,6	45	21,9	4	GF322701.5013	GF322101.5013
	9/16	12	11,8	16	15	100	22,3	48	23,7	4	GF322701.5014	GF322101.5014
GSF	5/8	11	13,1	18	16,7	102	24,3	48	25,9	4	GF322701.5015	GF322101.5015
	3/4	10	16	20	20	110	29,3	50	31,1	5	GF322701.5016	GF322101.5016

GF

GF-VZ

GF-KEG

ZGF

Gewindetiefe

Thread depth

ZIRK-GF

Gigant

	∅ d ₁ inch	P Gg/1" (tpi)	∅ d _F mm	∅ d ₂	∅ d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)	GSF 2xd ₁ R30-IKZ-HA	GSF 2xd ₁ R30-IKZ-HB
MoSys	1/4	20	4,7	8	6,7	62	13,4	36	14,3	3	GF332701.5009	GF332101.5009
	5/16	18	6,15	10	8,3	74	16,3	40	17,2	3	GF332701.5010	GF332101.5010
MoSys	3/8	16	7,65	12	10	80	19,9	45	20,9	3	GF332701.5011	GF332101.5011
	7/16	14	9	12	11,7	80	22,7	45	23,9	3	GF332701.5012	GF332101.5012
MoSys	1/2	13	10,35	14	13,3	90	26,4	45	27,8	4	GF332701.5013	GF332101.5013
	9/16	12	11,8	16	15	100	30,8	48	32,2	4	GF332701.5014	GF332101.5014
MoSys	5/8	11	13,1	18	16,7	102	33,5	48	35,2	4	GF332701.5015	GF332101.5015
	3/4	10	16	20	20	110	39,4	50	41,2	5	GF332701.5016	GF332101.5016

GF

GF-VZ

GF-KEG

ZGF

Gewindetiefe

Thread depth

ZIRK-GF

Gigant

	∅ d ₁ inch	P Gg/1" (tpi)	∅ d _F mm	∅ d ₂	∅ d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)	GSF 2,5xd ₁ R30-IKZ-HA	GSF 2,5xd ₁ R30-IKZ-HB
MoSys	3/8	16	7,65	12	10	85	24,7	45	25,7	3	GF342701.5011	GF342101.5011
	7/16	14	9	12	11,7	85	28,2	45	29,4	3	GF342701.5012	GF342101.5012
MoSys	1/2	13	10,35	14	13,3	96	32,3	45	33,6	4	GF342701.5013	GF342101.5013
	9/16	12	11,8	16	15	107	37,1	48	38,5	4	GF342701.5014	GF342101.5014
MoSys	5/8	11	13,1	18	16,7	110	40,5	48	42,1	4	GF342701.5015	GF342101.5015

2,5 x d₁

GF

GF-VZ

GF-KEG

ZGF

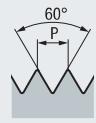
Gewindetiefe

Thread depth

ZIRK-GF

Gigant

Weitere Ausführungen auf Anfrage
Further designs upon request

VHM Carbide	TiCN
R30	RH + LH
Z3 - Z5	DIN 6535 HA HB
90°	$\varnothing d_1$
$\varnothing d_2$	



GSF-R30



GSF-R30

Einsatzgebiete – Material Applications – material	► 358	P 1.1-3.1 N 1.1-2.7	M 1.1-2.1 N 3.1-5.3	K 1.1-4.2 S 1.1-1.2, 2.1
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Gewindetiefe Thread depth

$\varnothing d_1$ inch	P Gg/1" (tpi)	$\varnothing d_F$ mm	$\varnothing d_2$	$\varnothing d_S$	l_1	l_2	l_4	l_S	Z (Flutes)	GSF 1,5xd ₁ R30-IKZ-HA TiCN	GSF 1,5xd ₁ R30-IKZ-HB TiCN
1/4	20	4,7	8	6,7	62	10,8	36	11,7	3	GF322706.5009	GF322106.5009
5/16	18	6,15	10	8,3	74	13,4	40	14,4	3	GF322706.5010	GF322106.5010
3/8	16	7,65	12	10	80	15,1	45	16,2	3	GF322706.5011	GF322106.5011
7/16	14	9	12	11,7	80	17,3	45	18,5	3	GF322706.5012	GF322106.5012
1/2	13	10,35	14	13,3	90	20,6	45	21,9	4	GF322706.5013	GF322106.5013
9/16	12	11,8	16	15	100	22,3	48	23,7	4	GF322706.5014	GF322106.5014
5/8	11	13,1	18	16,7	102	24,3	48	25,9	4	GF322706.5015	GF322106.5015
3/4	10	16	20	20	110	29,3	50	31,1	5	GF322706.5016	GF322106.5016

Gewindetiefe Thread depth

$\varnothing d_1$ inch	P Gg/1" (tpi)	$\varnothing d_F$ mm	$\varnothing d_2$	$\varnothing d_S$	l_1	l_2	l_4	l_S	Z (Flutes)	GSF 2xd ₁ R30-IKZ-HA TiCN	GSF 2xd ₁ R30-IKZ-HB TiCN
1/4	20	4,7	8	6,7	62	13,4	36	14,3	3	GF332706.5009	GF332106.5009
5/16	18	6,15	10	8,3	74	16,3	40	17,2	3	GF332706.5010	GF332106.5010
3/8	16	7,65	12	10	80	19,9	45	20,9	3	GF332706.5011	GF332106.5011
7/16	14	9	12	11,7	80	22,7	45	23,9	3	GF332706.5012	GF332106.5012
1/2	13	10,35	14	13,3	90	26,4	45	27,8	4	GF332706.5013	GF332106.5013
9/16	12	11,8	16	15	100	30,8	48	32,2	4	GF332706.5014	GF332106.5014
5/8	11	13,1	18	16,7	102	33,5	48	35,2	4	GF332706.5015	GF332106.5015
3/4	10	16	20	20	110	39,4	50	41,2	5	GF332706.5016	GF332106.5016

Gewindetiefe Thread depth

$\varnothing d_1$ inch	P Gg/1" (tpi)	$\varnothing d_F$ mm	$\varnothing d_2$	$\varnothing d_S$	l_1	l_2	l_4	l_S	Z (Flutes)	GSF 2,5xd ₁ R30-IKZ-HA TiCN	GSF 2,5xd ₁ R30-IKZ-HB TiCN
3/8	16	7,65	12	10	85	24,7	45	25,7	3	GF342706.5011	GF342106.5011
7/16	14	9	12	11,7	85	28,2	45	29,4	3	GF342706.5012	GF342106.5012
1/2	13	10,35	14	13,3	96	32,3	45	33,6	4	GF342706.5013	GF342106.5013
9/16	12	11,8	16	15	107	37,1	48	38,5	4	GF342706.5014	GF342106.5014
5/8	11	13,1	18	16,7	110	40,5	48	42,1	4	GF342706.5015	GF342106.5015

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

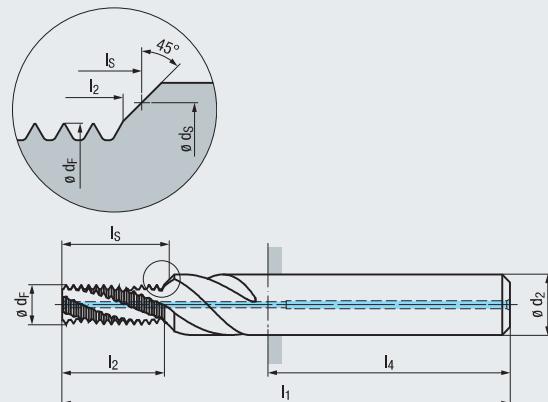
BSW, BSF

Pg

MJ
UNJC, UNJF

UNF

ASME B1.1

VHM
Carbide

R30

RH + LH

Z3 - Z5

DIN 6535

HA

HB

90°

Ø d₁

GSF-R30



P	1.1-3.1	K	1.1-4.2	N	1.1-1.5, 2.1-2.6
N	3.1-4.2	N	5.1-5.2	S	1.1-1.2

1,5 x d₁

	GSF 1,5xd ₁ R30-IKZ-HA	GSF 1,5xd ₁ R30-IKZ-HB
BGF	GF322701.5041	GF322101.5041
ZBGF	GF322701.5043	GF322101.5043
GSF	GF322701.5044	GF322101.5044
	GF322701.5045	GF322101.5045
	GF322701.5046	GF322101.5046
	GF322701.5047	GF322101.5047
	GF322701.5048	GF322101.5048
	GF322701.5049	GF322101.5049

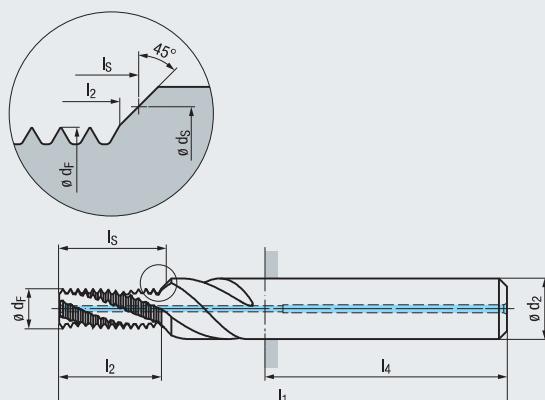


	GSF 2xd ₁ R30-IKZ-HA	GSF 2xd ₁ R30-IKZ-HB
MoSys	GF332701.5041	GF332101.5041
	GF332701.5043	GF332101.5043
	GF332701.5044	GF332101.5044
	GF332701.5045	GF332101.5045
	GF332701.5046	GF332101.5046
	GF332701.5047	GF332101.5047
	GF332701.5048	GF332101.5048
	GF332701.5049	GF332101.5049
	GF332701.5050	GF332101.5050

Weitere Ausführungen auf Anfrage
Further designs upon request

UNF

ASME B1.1



Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
R30	RH + LH
Z3 - Z5	DIN 6535

GSF-R30



P	1.1-3.1	M	1.1-2.1	K	1.1-4.2
N	1.1-2.7	N	3.1-5.3	S	1.1-1.2, 2.1

1,5 x d₁

GSF 1,5x d ₁ R30-IKZ-HA TiCN	GSF 1,5x d ₁ R30-IKZ-HB TiCN
GF322706.5041	GF322106.5041
GF322706.5043	GF322106.5043
GF322706.5044	GF322106.5044
GF322706.5045	GF322106.5045
GF322706.5046	GF322106.5046
GF322706.5047	GF322106.5047
GF322706.5048	GF322106.5048
GF322706.5049	GF322106.5049

Gewindetiefe
Thread depth

Ø d ₁ inch	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)
Nr.10	32	3,8	6	5,1	55	7,6	36	8,1	3
1/4	28	5,15	8	6,7	62	10,5	36	11,1	3
5/16	24	6,6	10	8,3	74	12,2	40	13	3
3/8	24	8,2	12	10	80	14,3	45	15,1	3
7/16	20	9,55	12	11,7	80	17,2	45	18,1	3
1/2	20	11,1	14	13,3	90	19,7	45	20,7	4
9/16	18	12,5	16	15	100	21,9	48	23	4
5/8	18	14,1	18	16,7	102	24,8	48	25,9	4
3/4	16	17	20	20	110	39	50	40,3	5

2 x d₁

GSF 2x d ₁ R30-IKZ-HA TiCN	GSF 2x d ₁ R30-IKZ-HB TiCN
GF322706.5041	GF322106.5041
GF322706.5043	GF322106.5043
GF322706.5044	GF322106.5044
GF322706.5045	GF322106.5045
GF322706.5046	GF322106.5046
GF322706.5047	GF322106.5047
GF322706.5048	GF322106.5048
GF322706.5049	GF322106.5049
GF322706.5050	GF322106.5050

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

Einsatzgebiete – Material
Applications – material

» 358

P	1.1-3.1	K	1.1-4.2	N	1.1-1.5, 2.1-2.6
N	3.1-4.2	N	5.1-5.2	S	1.1-1.2

SELF-LOCK

Gewindetiefe
Thread depth

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

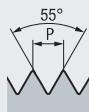
GF-KEG

ZGF

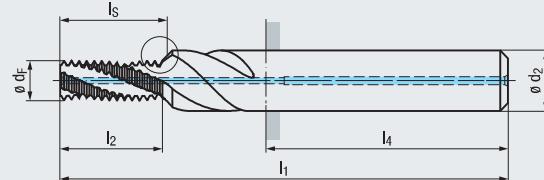
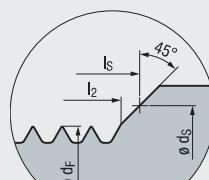
ZIRK-GF

Gigant

MoSys

**G (BSP)**

DIN EN ISO 228

VHM
Carbide

R30

RH + LH

Z3 - Z4

DIN 6535



HA

HB



ø d1



ø d1

GSF-R30

P	1.1-3.1	K	1.1-4.2	N	1.1-1.5, 2.1-2.6
N	3.1-4.2	N	5.1-5.2	S	1.1-1.2

1,5 x d₁

GF322701.4035

GF322101.4035

GF322701.4036

GF322101.4036

GF322701.4037

GF322101.4037

GSF	1,5xd ₁	GSF	1,5xd ₁
R30-IKZ-HA		R30-IKZ-HB	

GF322701.4035

GF322101.4035

GF322701.4036

GF322101.4036

GF322701.4037

GF322101.4037

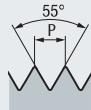
GF322701.4035

GF322101.4035

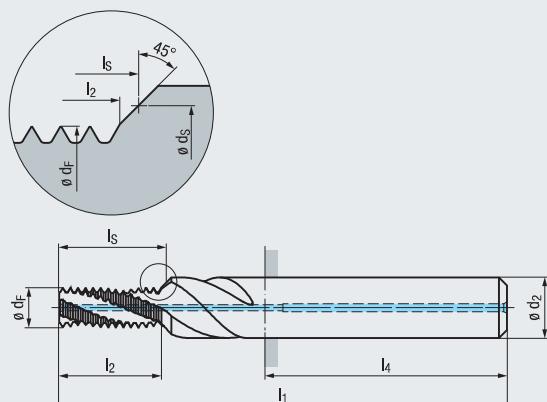
GF322701.4036

GF322101.4036

GF322701.

G (BSP)

DIN EN ISO 228

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

Nenngröße

Nom. size

∅ d₁

P

Gg/1" (tpi)

mm

∅ d_F

mm

∅ d₂

mm

∅ d_S

mm

l₁

mm

l₂

mm

l₄

mm

l_S

mm

(Flutes)

Z

∅ d ₁	G	1/8	28	8,2	12	10,2	80	15	45	15,9	3	GSF	GSF	
												1,5xd ₁	R30-IKZ-HA	TiCN
1/4		1/4	19	11	16	13,8	100	20,7	48	22	4	GF322706.4035	GF322106.4035	
3/8		3/8	19	14,5	18	17,5	102	26,1	48	27,4	4	GF322706.4036	GF322106.4036	
												GF322706.4037	GF322106.4037	

Gewindetiefe
Thread depth

Nenngröße

Nom. size

∅ d₁

P

Gg/1" (tpi)

mm

∅ d_F

mm

∅ d₂

mm

∅ d_S

mm

l₁

mm

l₂

mm

l₄

mm

l_S

mm

(Flutes)

Z

∅ d ₁	G	1/8	28	8,2	12	10,2	80	20,4	45	21,3	3	GSF	GSF	
												2xd ₁	R30-IKZ-HA	TiCN
1/4		1/4	19	11	16	13,8	100	27,4	48	28,7	4	GF332706.4035	GF332106.4035	
3/8		3/8	19	14,5	18	17,5	102	34,1	48	35,4	4	GF332706.4036	GF332106.4036	
												GF332706.4037	GF332106.4037	

P	1.1-3.1	M	1.1-2.1	K	1.1-4.2
N	1.1-2.7	N	3.1-5.3	S	1.1-1.2, 2.1

1,5 x d₁

∅ d ₁	G	1/8	28	8,2	12	10,2	80	15	45	15,9	3	GSF	GSF	
												1,5xd ₁	R30-IKZ-HA	TiCN
1/4		1/4	19	11	16	13,8	100	20,7	48	22	4	GF322706.4035	GF322106.4035	
3/8		3/8	19	14,5	18	17,5	102	26,1	48	27,4	4	GF322706.4036	GF322106.4036	
												GF322706.4037	GF322106.4037	

2 x d₁

∅ d ₁	G	1/8	28	8,2	12	10,2	80	20,4	45	21,3	3	GSF	GSF	
												2xd ₁	R30-IKZ-HA	TiCN
1/4		1/4	19	11	16	13,8	100	27,4	48	28,7	4	GF332706.4035	GF332106.4035	
3/8		3/8	19	14,5	18	17,5	102	34,1	48	35,4	4	GF332706.4036	GF332106.4036	
												GF332706.4037	GF332106.4037	

Weitere Ausführungen auf Anfrage
Further designs upon request

Product
Finderv_c / f_z

M

MF

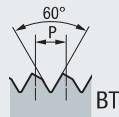
UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF**LK-M**

EMUGE-Norm · EMUGE Standard

VHM
Carbide

RH + LH

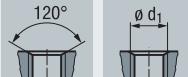
Z3 - Z4



DIN 6535



120°



GSF



P	1.1-5.1	K	1.1-4.2	N	1.1-1.5, 2.1-2.6
N	3.1-4.2	N	5.1-5.2	S	1.1-1.3

2 x d₁

EG (STI)

Einsatzgebiete – Material
Applications – material

► 358

SELF-LOCK

Gewindetiefe
Thread depth

Tr

Zubehör
Accessories

	Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)	GSF 2xd ₁ IKZ-HA	GSF 2xd ₁ IKZ-HB
LK-M	5	0,8	4	6	5,3	55	10,7	36	11,1	3	GF333701.1050	GF333101.1050
BGF	6	1	4,8	8	6,3	62	12,4	36	12,8	3	GF333701.1052	GF333101.1052
	8	1,25	6,5	10	8,4	74	16,7	40	17,3	3	GF333701.1054	GF333101.1054
ZBGF	10	1,5	8,2	12	10,5	80	20,1	45	20,8	3	GF333701.1056	GF333101.1056
	12	1,75	9,9	14	12,6	90	25,2	45	26	4	GF333701.1058	GF333101.1058

Weitere Ausführungen auf Anfrage
Further designs upon request

GSF

GF

GF-VZ

GF-KEG

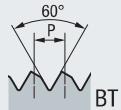
ZGF

ZIRK-GF

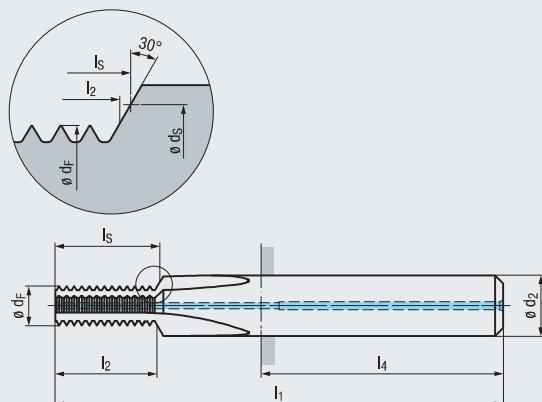
Gigant

MoSys



LK-M

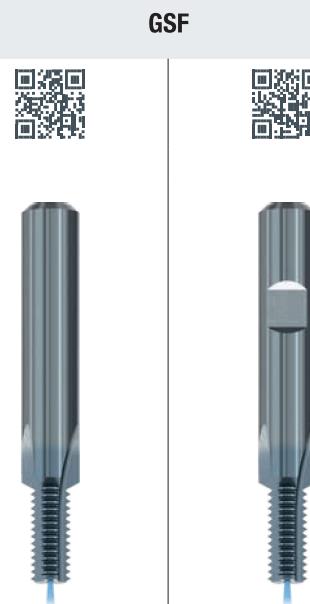
EMUGE-Norm · EMUGE Standard

Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TiCN
RH + LH	
Z3 - Z4	DIN 6535
	HA HB
120°	Ø d1
	Ø d2



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

2 x d₁

	Ø d ₁ mm	P mm	Ø d _f mm	Ø d ₂	Ø d _S	l ₁	l ₂	l ₄	l _S	Z (Flutes)	GSF 2xd ₁ IKZ-HA TiCN	GSF 2xd ₁ IKZ-HB TiCN
LK-M	5	0,8	4	6	5,3	55	10,7	36	11,1	3	GF333706.1050	GF333106.1050
	6	1	4,8	8	6,3	62	12,4	36	12,8	3	GF333706.1052	GF333106.1052
	8	1,25	6,5	10	8,4	74	16,7	40	17,3	3	GF333706.1054	GF333106.1054
	10	1,5	8,2	12	10,5	80	20,1	45	20,8	3	GF333706.1056	GF333106.1056
	12	1,75	9,9	14	12,6	90	25,2	45	26	4	GF333706.1058	GF333106.1058

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF-VZ

GF-KEG

ZGF

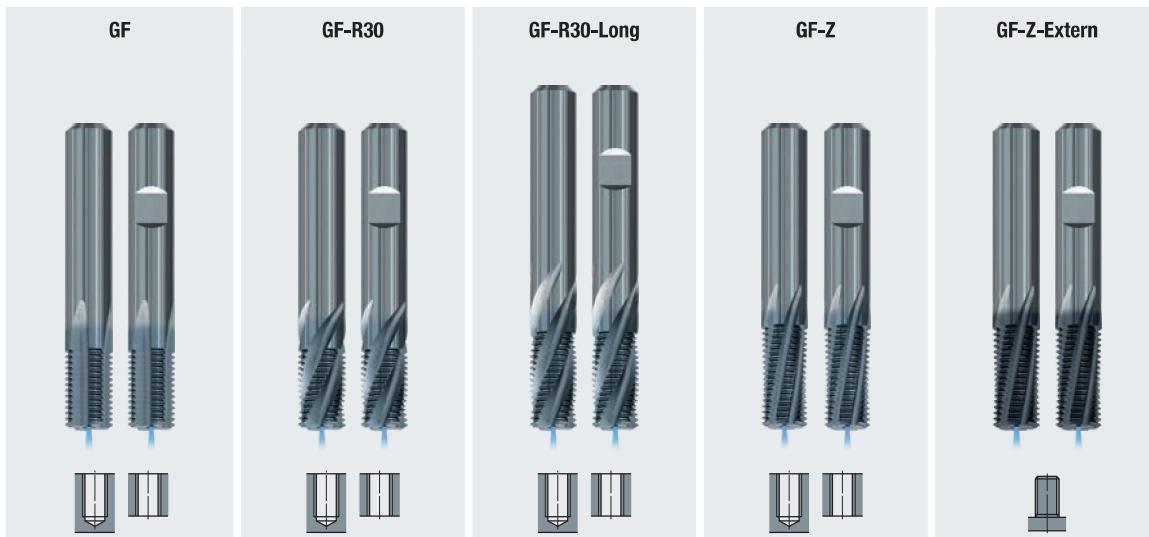
ZIRK-GF

Gigant

MoSys

Gewindebohrer für Metrisches
SELF-LOCK-Gewinde
siehe Seite 290 - 293Taps for Metric SELF-LOCK thread,
see page 290 - 293

[Product Finder](#)[v_c / f_z](#)[M](#)[MF](#)[UNC
UN, UNS](#)[UNF
UNEF](#)[G, Rp](#)[NPT, NPTF
Rc, W](#)[BSW, BSF](#)[Pg](#)[MJ
UNJC, UNJF](#)[EG \(STI\)](#)[SELF-LOCK](#)[Tr](#)[Zubehör
Accessories](#)[BGF](#)[ZBGF](#)[GSF](#)[GF](#)[GF-VZ](#)[GF-KEG](#)[ZGF](#)[ZIRK-GF](#)[Gigant](#)[MoSys](#)



Seite · Page

428	429	430	431	432	M
428	429	430	431	432	MF
433		434		435	UN
436	437		438		G (BSP), Rp (BSPP), W
439					LK-M
439					LK-MF
440	441				Pg

Mögliche Modifikationen siehe Seite 356 - 357

Possible modifications, see pages 356 - 357

Product Finder

v_c / f_v

M

MF

UNC
UN, UNSUNF
UNEFL

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ

UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

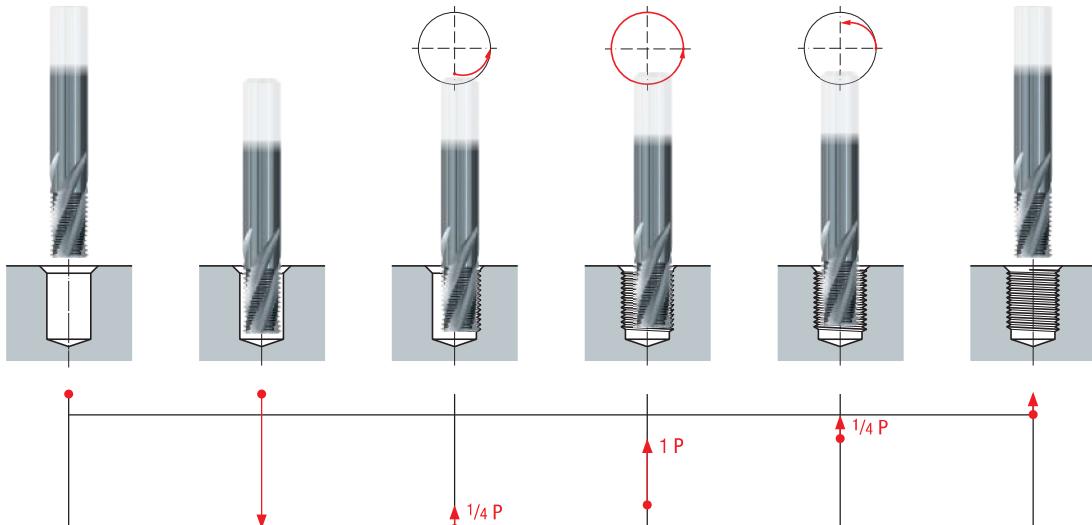
GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

**Gewindefräsyklus · Thread milling cycle**

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

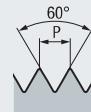
ZIRK-GF

Gigant

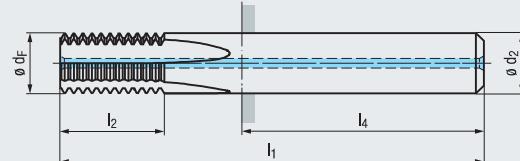
MoSys



M, MF

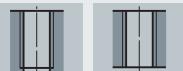


DIN 13

Für Innengewinde
For internal threadsVHM
Carbide

RH + LH

Z3 - Z5 DIN 6535



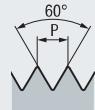
GF



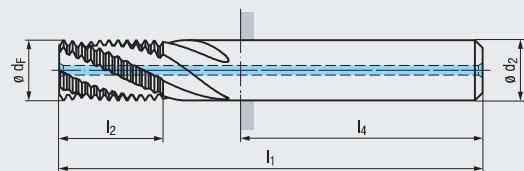
P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

M, MF

DIN 13



Für Innengewinde
For internal threads



Einsatzgebiete – Material
Applications – material

► 358

VHM
Carbide

R30

RH + LH

Z3 - Z5

DIN 6535

HA
HB $\varnothing d_1$ 

GF-R30



P 1.1-3.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.2

GF R30-IKZ-HA	GF R30-IKZ-HB
GF162701.9506	GF162101.9506
GF162701.9509	GF162101.9509
GF162811.9512	GF162211.9512
GF162721.9512	GF162121.9512
GF162731.9512	GF162131.9512
GF162751.9512	GF162151.9512
GF162811.9514	GF162211.9514
GF162721.9514	GF162121.9514
GF162731.9514	GF162131.9514
GF162751.9514	GF162151.9514
GF162721.9516	GF162121.9516
GF162731.9516	GF162131.9516
GF162751.9516	GF162151.9516
GF162731.9518	GF162131.9518
GF162751.9518	GF162151.9518

P mm	$\varnothing d_1$ mm	$\varnothing d_F$ mm	$\varnothing d_2$	l_1	l_2	l_4	Z (Flutes)	GF R30-IKZ-HA	GF R30-IKZ-HB
0,5	$\geq M10$	7,9	8	63	12,2	36	3	GF162701.9506	GF162101.9506
0,75	$\geq M11$	7,9	8	63	12,3	36	3	GF162701.9509	GF162101.9509
1	$\geq M14$	9,9	10	70	16,4	40	4	GF162811.9512	GF162211.9512
1	$\geq M16$	11,9	12	80	20,4	45	4	GF162721.9512	GF162121.9512
1	$\geq M22$	15,9	16	90	25,4	48	5	GF162731.9512	GF162131.9512
1	$\geq M27$	19,9	20	105	32,4	50	5	GF162751.9512	GF162151.9512
1,5	$\geq M14$	9,9	10	70	17,2	40	4	GF162811.9514	GF162211.9514
1,5	$\geq M16$	11,9	12	80	21,7	45	4	GF162721.9514	GF162121.9514
1,5	$\geq M22$	15,9	16	90	26,2	48	5	GF162731.9514	GF162131.9514
1,5	$\geq M27$	19,9	20	105	33,7	50	5	GF162751.9514	GF162151.9514
2	$\geq M18$	11,9	12	80	20,9	45	4	GF162721.9516	GF162121.9516
2	$\geq M22$	15,9	16	90	26,9	48	5	GF162731.9516	GF162131.9516
2	$\geq M27$	19,9	20	105	32,9	50	5	GF162751.9516	GF162151.9516
3	$\geq M24$	15,9	16	90	28,3	48	5	GF162731.9518	GF162131.9518
3	$\geq M30$	19,9	20	105	34,3	50	5	GF162751.9518	GF162151.9518

TICN



Einsatzgebiete – Material Applications – material								P 1.1-3.1	M 1.1-2.1	K 1.1-4.2
								N 1.1-2.7	N 3.1-5.3	S 1.1-1.2, 2.1
P mm	$\varnothing d_1$ mm	$\varnothing d_F$ mm	$\varnothing d_2$	l_1	l_2	l_4	Z (Flutes)	GF R30-IKZ-HA	GF R30-IKZ-HB	TICN

P mm	$\varnothing d_1$ mm	$\varnothing d_F$ mm	$\varnothing d_2$	l_1	l_2	l_4	Z (Flutes)	GF R30-IKZ-HA	GF R30-IKZ-HB	TICN
0,5	$\geq M10$	7,9	8	63	12,2	36	3	GF162706.9506	GF162106.9506	GF162706.9506
0,75	$\geq M11$	7,9	8	63	12,3	36	3	GF162706.9509	GF162106.9509	GF162706.9509
1	$\geq M14$	9,9	10	70	16,4	40	4	GF162816.9512	GF162216.9512	GF162816.9512
1	$\geq M16$	11,9	12	80	20,4	45	4	GF162726.9512	GF162126.9512	GF162726.9512
1	$\geq M22$	15,9	16	90	25,4	48	5	GF162736.9512	GF162136.9512	GF162736.9512
1	$\geq M27$	19,9	20	105	32,4	50	5	GF162756.9512	GF162156.9512	GF162756.9512
1,5	$\geq M14$	9,9	10	70	17,2	40	4	GF162816.9514	GF162216.9514	GF162816.9514
1,5	$\geq M16$	11,9	12	80	21,7	45	4	GF162726.9514	GF162126.9514	GF162726.9514
1,5	$\geq M22$	15,9	16	90	26,2	48	5	GF162736.9514	GF162136.9514	GF162736.9514
1,5	$\geq M27$	19,9	20	105	33,7	50	5	GF162756.9514	GF162156.9514	GF162756.9514
2	$\geq M18$	11,9	12	80	20,9	45	4	GF162726.9516	GF162126.9516	GF162726.9516
2	$\geq M22$	15,9	16	90	26,9	48	5	GF162736.9516	GF162136.9516	GF162736.9516
2	$\geq M27$	19,9	20	105	32,9	50	5	GF162756.9516	GF162156.9516	GF162756.9516
3	$\geq M24$	15,9	16	90	28,3	48	5	GF162736.9518	GF162136.9518	GF162736.9518
3	$\geq M30$	19,9	20	105	34,3	50	5	GF162756.9518	GF162156.9518	GF162756.9518

Weitere Ausführungen auf Anfrage
Further designs upon request



Product Finder

v_c / f_z

M

MF

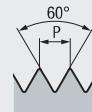
UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

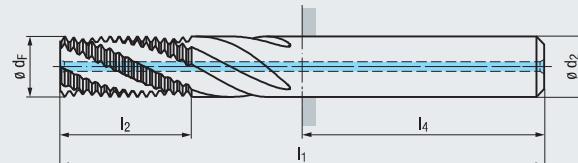
Pg

MJ
UNJC, UNJF**M, MF**

DIN 13

Für Innengewinde

For internal threads

VHM
Carbide

R30

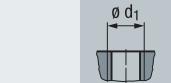
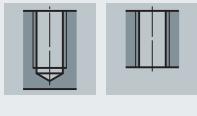
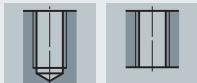
RH + LH

Z4 - Z5 DIN 6535



HA

HB

ø d₁**GF-R30-Long**

EG (STI)

Einsatzgebiete – Material
Applications – material

» 358

P 1.1-3.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.2

SELF-LOCK

Tr	P mm	ø d ₁ mm	ø d _F mm	ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF R30-Long-IKZ-HA	GF R30-Long-IKZ-HB
Zubehör	1	≥ M14	9,9	10	80	20,4	40	4	GF162911.9512	GF162311.9512
Accessories	1	≥ M16	11,9	12	90	25,4	45	4	GF162921.9512	GF162321.9512
	1	≥ M22	15,9	16	100	32,4	48	5	GF162931.9512	GF162331.9512
	1,5	≥ M14	9,9	10	80	21,7	40	4	GF162911.9514	GF162311.9514
	1,5	≥ M16	11,9	12	90	26,2	45	4	GF162921.9514	GF162321.9514
	1,5	≥ M22	15,9	16	100	33,7	48	5	GF162931.9514	GF162331.9514
BGF	1,5	≥ M27	19,9	20	115	41,2	50	5	GF162951.9514	GF162351.9514
ZBGF	2	≥ M18	11,9	12	90	26,9	45	4	GF162921.9516	GF162321.9516
	2	≥ M22	15,9	16	100	32,9	48	5	GF162931.9516	GF162331.9516
GSF	2	≥ M27	19,9	20	115	40,9	50	5	GF162951.9516	GF162351.9516
	3	≥ M24	15,9	16	100	34,3	48	5	GF162931.9518	GF162331.9518
	3	≥ M30	19,9	20	115	43,3	50	5	GF162951.9518	GF162351.9518

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

TICN

Einsatzgebiete – Material
Applications – material

» 358

P 1.1-3.1	M 1.1-2.1	K 1.1-4.2
N 1.1-2.7	N 3.1-5.3	S 1.1-1.2, 2.1

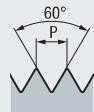


	P mm	ø d ₁ mm	ø d _F mm	ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF R30-Long-IKZ-HA TICN	GF R30-Long-IKZ-HB TICN
	1	≥ M14	9,9	10	80	20,4	40	4	GF162916.9512	GF162316.9512
	1	≥ M16	11,9	12	90	25,4	45	4	GF162926.9512	GF162326.9512
	1	≥ M22	15,9	16	100	32,4	48	5	GF162936.9512	GF162336.9512
	1,5	≥ M14	9,9	10	80	21,7	40	4	GF162916.9514	GF162316.9514
	1,5	≥ M16	11,9	12	90	26,2	45	4	GF162926.9514	GF162326.9514
	1,5	≥ M22	15,9	16	100	33,7	48	5	GF162936.9514	GF162336.9514
	1,5	≥ M27	19,9	20	115	41,2	50	5	GF162956.9514	GF162356.9514
	2	≥ M18	11,9	12	90	26,9	45	4	GF162926.9516	GF162326.9516
	2	≥ M22	15,9	16	100	32,9	48	5	GF162936.9516	GF162336.9516
	2	≥ M27	19,9	20	115	40,9	50	5	GF162956.9516	GF162356.9516
	3	≥ M24	15,9	16	100	34,3	48	5	GF162936.9518	GF162336.9518
	3	≥ M30	19,9	20	115	43,3	50	5	GF162956.9518	GF162356.9518

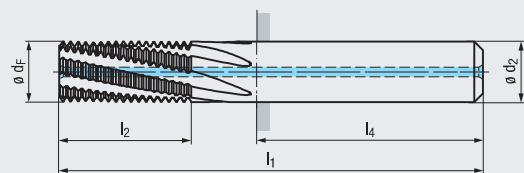
Weitere Ausführungen auf Anfrage
Further designs upon request

M, MF

DIN 13



Für Innengewinde
For internal threads



Einsatzgebiete – Material
Applications – material

► 358

VHM Carbide	R15	RH + LH
Z6	DIN 6535	HA HB
	$\emptyset d_1$	

GF-Z



Mit höherer Nutenzahl
With increased number of flutes



P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

GF-Z
R15-IKZ-HAGF-Z
R15-IKZ-HB

P mm	$\emptyset d_1$ mm	$\emptyset d_F$ mm	$\emptyset d_2$ mm	l_1	l_2	l_4	Z (Flutes)	GF-Z R15-IKZ-HA	GF-Z R15-IKZ-HB
1	$\geq M14$	9,9	10	70	20,4	40	6	GF165961.9512	GF165361.9512
1,5	$\geq M16$	11,9	12	80	26,2	45	6	GF165971.9514	GF165371.9514
2	$\geq M22$	15,9	16	90	32,9	48	6	GF165981.9516	GF165381.9516
3	$\geq M30$	19,9	20	105	43,3	50	6	GF165991.9518	GF165391.9518

TICN



Einsatzgebiete – Material
Applications – material

► 358

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

GF-Z
R15-IKZ-HA
TICNGF-Z
R15-IKZ-HB
TICN

P mm	$\emptyset d_1$ mm	$\emptyset d_F$ mm	$\emptyset d_2$ mm	l_1	l_2	l_4	Z (Flutes)	GF-Z R15-IKZ-HA TICN	GF-Z R15-IKZ-HB TICN
1	$\geq M14$	9,9	10	70	20,4	40	6	GF165966.9512	GF165366.9512
1,5	$\geq M16$	11,9	12	80	26,2	45	6	GF165976.9514	GF165376.9514
2	$\geq M22$	15,9	16	90	32,9	48	6	GF165986.9516	GF165386.9516
3	$\geq M30$	19,9	20	105	43,3	50	6	GF165996.9518	GF165396.9518

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Gewindelehren
siehe Seite 541 - 594

Thread gauges,
see page 541 - 594

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

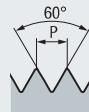
GF-KEG

ZGF

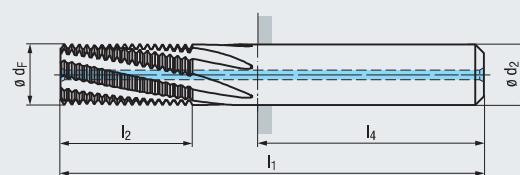
ZIRK-GF

Gigant

MoSys

M, MF

DIN 13

Für Außengewinde
For external threads

VHM Carbide	TIALN 86
R15	RH + LH
Z5 - Z9	DIN 6535
	HA HB
	∅ d ₁
	∅ d ₂

GF-Z-Extern

Mit höherer Nutenzahl
With increased number of flutes

new



new



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

GF-Z
R15-Extern-IKZ-HA
TIALN-86

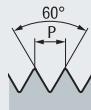
GF-Z
R15-Extern-IKZ-HB
TIALN-86

Weitere Ausführungen auf Anfrage
Further designs upon request

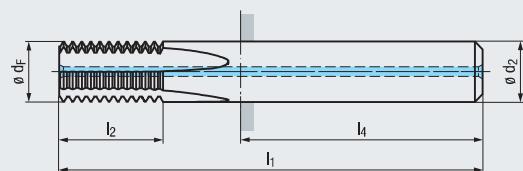
GF1649CC.9506
GF1649CC.9509
GF1649BC.9512
GF1643BC.9512
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GF1643CC.9510
GF16496C.9512
GF16436C.9512
GF16496C.9513
GF16436C.9513
GF16496C.9514
GF16436C.9514
GF16497C.9514
GF16437C.9514
GF16497C.9516
GF16437C.9516
GF16498C.9516
GF16438C.9516
GF16498C.9517
GF16438C.9517



UN



ASME B1.1

Für Innengewinde
For internal threadsEinsatzgebiete – Material
Applications – material

► 358

VHM
Carbide

RH + LH

Z4 - Z5

DIN 6535
HA
HB

GF

P 1.1-5.1 K 1.1-4.2 N 1.1-1.5, 2.1-2.6
N 3.1-4.2 N 5.1-5.2 S 1.1-1.3GF
IKZ-HAGF
IKZ-HB

P Gg/1" (tpi)	$\emptyset d_1$ inch	$\emptyset d_f$ mm	$\emptyset d_2$	l_1	l_2	l_4	Z (Flutes)	GF IKZ-HA	GF IKZ-HB
24	$\geq 1/2$	9,9	10	70	16,3	40	4	GF163811.9579	GF163211.9579
20	$\geq 1/2$	9,9	10	70	17,1	40	4	GF163811.9580	GF163211.9580
20	$\geq 11/16$	11,9	12	80	20,9	45	4	GF163721.9580	GF163121.9580
20	$\geq 7/8$	15,9	16	90	26	48	5	GF163731.9580	GF163131.9580
20	$\geq 1"$	19,9	20	105	32,3	50	5	GF163751.9580	GF163151.9580
18	$\geq 1/2$	9,9	10	70	17,6	40	4	GF163811.9581	GF163211.9581
16	$\geq 1/2$	9,9	10	70	16,6	40	4	GF163811.9582	GF163211.9582
16	$\geq 11/16$	11,9	12	80	21,3	45	4	GF163721.9582	GF163121.9582
16	$\geq 7/8$	15,9	16	90	26,1	48	5	GF163731.9582	GF163131.9582
16	$\geq 1"$	19,9	20	105	32,5	50	5	GF163751.9582	GF163151.9582
14	$\geq 7/8$	15,9	16	90	26,2	48	5	GF163731.9583	GF163131.9583
12	$\geq 11/16$	11,9	12	80	22,1	45	4	GF163721.9585	GF163121.9585
12	$\geq 7/8$	15,9	16	90	26,3	48	5	GF163731.9585	GF163131.9585
12	$\geq 1"$	19,9	20	105	32,7	50	5	GF163751.9585	GF163151.9585
10	$\geq 11/16$	11,9	12	80	21,4	45	4	GF163721.9587	GF163121.9587
9	$\geq 11/16$	11,9	12	80	21	45	4	GF163721.9588	GF163121.9588
8	$\geq 7/8$	15,9	16	90	26,8	48	5	GF163731.9589	GF163131.9589
8	$\geq 1"$	19,9	20	105	33,2	50	5	GF163751.9589	GF163151.9589
6	$\geq 1"$	19,9	20	105	35,8	50	5	GF163751.9591	GF163151.9591

TICN

Einsatzgebiete – Material
Applications – material

► 358

P 1.1-5.1 M 1.1-4.1 K 1.1-4.2
N 1.1-5.3 S 1.1-2.6 H 1.1-1.2GF
IKZ-HA
TICNGF
IKZ-HB
TICN

P Gg/1" (tpi)	$\emptyset d_1$ inch	$\emptyset d_f$ mm	$\emptyset d_2$	l_1	l_2	l_4	Z (Flutes)	GF IKZ-HA TICN	GF IKZ-HB TICN
24	$\geq 1/2$	9,9	10	70	16,3	40	4	GF163816.9579	GF163216.9579
20	$\geq 1/2$	9,9	10	70	17,1	40	4	GF163816.9580	GF163216.9580
20	$\geq 11/16$	11,9	12	80	20,9	45	4	GF163726.9580	GF163126.9580
20	$\geq 7/8$	15,9	16	90	26	48	5	GF163736.9580	GF163136.9580
20	$\geq 1"$	19,9	20	105	32,3	50	5	GF163756.9580	GF163156.9580
18	$\geq 1/2$	9,9	10	70	17,6	40	4	GF163816.9581	GF163216.9581
16	$\geq 1/2$	9,9	10	70	16,6	40	4	GF163816.9582	GF163216.9582
16	$\geq 11/16$	11,9	12	80	21,3	45	4	GF163726.9582	GF163126.9582
16	$\geq 7/8$	15,9	16	90	26,1	48	5	GF163736.9582	GF163136.9582
16	$\geq 1"$	19,9	20	105	32,5	50	5	GF163756.9582	GF163156.9582
14	$\geq 7/8$	15,9	16	90	26,2	48	5	GF163736.9583	GF163136.9583
12	$\geq 11/16$	11,9	12	80	22,1	45	4	GF163726.9585	GF163126.9585
12	$\geq 7/8$	15,9	16	90	26,3	48	5	GF163736.9585	GF163136.9585
12	$\geq 1"$	19,9	20	105	32,7	50	5	GF163756.9585	GF163156.9585
10	$\geq 11/16$	11,9	12	80	21,4	45	4	GF163726.9587	GF163126.9587
9	$\geq 11/16$	11,9	12	80	21	45	4	GF163726.9588	GF163126.9588
8	$\geq 7/8$	15,9	16	90	26,8	48	5	GF163736.9589	GF163136.9589
8	$\geq 1"$	19,9	20	105	33,2	50	5	GF163756.9589	GF163156.9589
6	$\geq 1"$	19,9	20	105	35,8	50	5	GF163756.9591	GF163156.9591

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finder

v / f

M

MF
UNC
UN, UNSUNF
UNEFFECT

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product Finder

v_c / f_z

M

MF

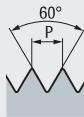
UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

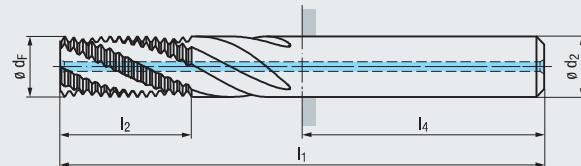
Pg

MJ
UNJC, UNJF**UN**

ASME B.1.1

Für Innengewinde

For internal threads

VHM
Carbide

R30

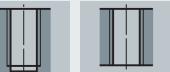
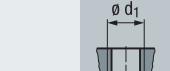
RH + LH

Z4 - Z5

DIN 6535

HA

HB

**GF-R30-Long**Einsatzgebiete – Material
Applications – material

► 358

P	1.1-3.1	K	1.1-4.2	N	1.1-1.5, 2.1-2.6
N	3.1-4.2	N	5.1-5.2	S	1.1-1.2

SELF-LOCK

Tr	P Gg/1" (tpi)	∅ d ₁ inch	∅ d _F mm	∅ d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF R30-Long-IKZ-HA	GF R30-Long-IKZ-HB
Zubehör Accessories	24	≥ 1/2	9,9	10	80	20,6	40	4	GF162911.9579	GF162311.9579
	20	≥ 1/2	9,9	10	80	20,9	40	4	GF162911.9580	GF162311.9580
	20	≥ 11/16	11,9	12	90	26	45	4	GF162921.9580	GF162321.9580
	20	≥ 7/8	15,9	16	100	32,3	48	5	GF162931.9580	GF162331.9580
	20	≥ 1"	19,9	20	115	41,2	50	5	GF162951.9580	GF162351.9580
BGF	18	≥ 1/2	9,9	10	80	20,4	40	4	GF162911.9581	GF162311.9581
	16	≥ 1/2	9,9	10	80	21,3	40	4	GF162911.9582	GF162311.9582
ZBGF	16	≥ 11/16	11,9	12	90	26,1	45	4	GF162921.9582	GF162321.9582
	16	≥ 7/8	15,9	16	100	32,5	48	5	GF162931.9582	GF162331.9582
GSF	16	≥ 1"	19,9	20	115	40,4	50	5	GF162951.9582	GF162351.9582
	14	≥ 7/8	15,9	16	100	33,4	48	5	GF162931.9583	GF162331.9583
GF	12	≥ 11/16	11,9	12	90	26,3	45	4	GF162921.9585	GF162321.9585
	12	≥ 7/8	15,9	16	100	32,7	48	5	GF162931.9585	GF162331.9585
GF-VZ	12	≥ 1"	19,9	20	115	41,2	50	5	GF162951.9585	GF162351.9585
	10	≥ 11/16	11,9	12	90	26,5	45	4	GF162921.9587	GF162321.9587
GF-KEG	9	≥ 11/16	11,9	12	90	26,6	45	4	GF162921.9588	GF162321.9588
	8	≥ 7/8	15,9	16	100	33,1	48	5	GF162931.9589	GF162331.9589
ZGF	8	≥ 1"	19,9	20	115	42,7	50	5	GF162951.9589	GF162351.9589
	6	≥ 1"	19,9	20	115	44,3	50	5	GF162951.9591	GF162351.9591

ZIRK-GF

Gigant

MoSys

TICN

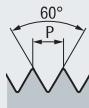
Einsatzgebiete – Material
Applications – material

► 358

P	1.1-3.1	M	1.1-2.1	K	1.1-4.2
N	1.1-2.7	N	3.1-5.3	S	1.1-1.2, 2.1

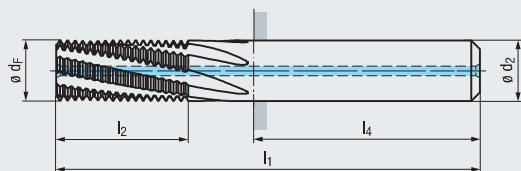
Tr	P Gg/1" (tpi)	∅ d ₁ inch	∅ d _F mm	∅ d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF R30-Long-IKZ-HA TICN	GF R30-Long-IKZ-HB TICN
Zubehör Accessories	24	≥ 1/2	9,9	10	80	20,6	40	4	GF162916.9579	GF162316.9579
	20	≥ 1/2	9,9	10	80	20,9	40	4	GF162916.9580	GF162316.9580
	20	≥ 11/16	11,9	12	90	26	45	4	GF162926.9580	GF162326.9580
	20	≥ 7/8	15,9	16	100	32,3	48	5	GF162936.9580	GF162336.9580
	20	≥ 1"	19,9	20	115	41,2	50	5	GF162956.9580	GF162356.9580
BGF	18	≥ 1/2	9,9	10	80	20,4	40	4	GF162916.9581	GF162316.9581
	16	≥ 1/2	9,9	10	80	21,3	40	4	GF162916.9582	GF162316.9582
ZBGF	16	≥ 11/16	11,9	12	90	26,1	45	4	GF162926.9582	GF162326.9582
	16	≥ 7/8	15,9	16	100	33,4	48	5	GF162936.9582	GF162336.9582
GSF	16	≥ 1"	19,9	20	115	40,4	50	5	GF162956.9582	GF162356.9582
	14	≥ 7/8	15,9	16	100	33,4	48	5	GF162936.9583	GF162336.9583
GF	12	≥ 11/16	11,9	12	90	26,3	45	4	GF162926.9585	GF162326.9585
	12	≥ 7/8	15,9	16	100	32,7	48	5	GF162936.9585	GF162336.9585
	12	≥ 1"	19,9	20	115	41,2	50	5	GF162956.9585	GF162356.9585
GF-VZ	10	≥ 11/16	11,9	12	90	26,5	45	4	GF162926.9587	GF162326.9587
	9	≥ 11/16	11,9	12	90	26,6	45	4	GF162926.9588	GF162326.9588
GF-KEG	8	≥ 7/8	15,9	16	100	33,1	48	5	GF162936.9589	GF162336.9589
	8	≥ 1"	19,9	20	115	42,7	50	5	GF162956.9589	GF162356.9589
ZGF	6	≥ 1"	19,9	20	115	44,3	50	5	GF162956.9591	GF162356.9591

UN



ASME B.1.1

Für Außengewinde
For external threads



Einsatzgebiete – Material
Applications – material

► 358

VHM Carbide	TIALN 86
R15	RH + LH
Z4 - Z7	DIN 6535
	HA HB
	new
	Ø d ₁
	Ø d ₂

GF-Z-Extern



Mit höherer Nutenzahl
With increased number of flutes



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

P Gg/1" (tpi)	Ø d ₁ inch	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF-Z R15-Extern-IKZ-HA TIALN-86	GF-Z R15-Extern-IKZ-HB TIALN-86
32	≥ Nr.10	5,9	6	55	12,3	36	6	GF1649CC.9577	GF1643CC.9577
28	≥ Nr.12	7,9	8	63	16,8	36	7	GF1649BC.9578	GF1643BC.9578
24	≥ Nr.12	7,9	8	63	16,4	36	6	GF1649BC.9579	GF1643BC.9579
20	≥ 1/4	7,9	8	63	17,1	36	5	GF1649BC.9580	GF1643BC.9580
18	≥ 5/16	9,9	10	70	20,5	40	5	GF1649BC.9581	GF16436C.9581
16	≥ 3/8	9,9	10	70	21,4	40	5	GF16496C.9582	GF16436C.9582
16	≥ 7/16	11,9	12	80	26,2	45	6	GF16497C.9582	GF16437C.9582
14	≥ 7/16	11,9	12	80	26,3	45	5	GF16497C.9583	GF16437C.9583
12	≥ 9/16	11,9	12	80	26,5	45	4	GF16497C.9585	GF16437C.9585
12	≥ 9/16	15,9	16	90	32,8	48	6	GF16498C.9585	GF16438C.9585
10	≥ 3/4	15,9	16	90	34,3	48	5	GF16498C.9587	GF16438C.9587

Weitere Ausführungen auf Anfrage
Further designs upon request

- Product Finder
- v_c / f_v
- M
- MF
- UNC UN, UNS
- UNF UNEF
- G, Rp
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr
- Zubehör Accessories
- BGF
- ZBGF
- GSF
- GF
- GF-VZ
- GF-KEG
- ZGF
- ZIRK-GF
- Gigant
- MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

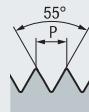
Gigant

MoSys

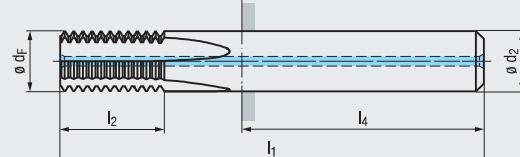


G (BSP), Rp (BSPP), W

DIN EN ISO 228, DIN EN 10226-1, ISO 7/1, BS 84

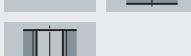


Für Innen- und Außengewinde
For internal and external threads

VHM
Carbide

RH + LH

Z4 - Z5 DIN 6535

ø d₁

GF



P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

GF IKZ-HA	GF IKZ-HB
-----------	-----------

GF163811.9545	GF163211.9545
GF163731.9548	GF163131.9548
GF163731.9550	GF163131.9550
GF163751.9550	GF163151.9550

TICN



Einsatzgebiete – Material
Applications – material

» 358

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

GF IKZ-HA TICN	GF IKZ-HB TICN
-------------------	-------------------

GF163816.9545	GF163216.9545
GF163736.9548	GF163136.9548
GF163736.9550	GF163136.9550
GF163756.9550	GF163156.9550

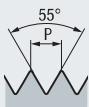
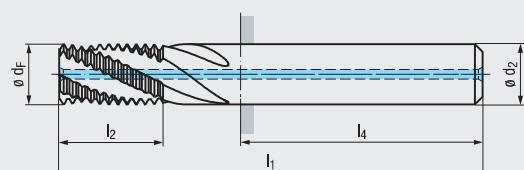
1) Durchmesser bezogen auf Rohr-Innengewinde bzw. Rohr-Außengewinde
Diameter related to internal pipe thread resp. external pipe thread

Weitere Ausführungen auf Anfrage
Further designs upon request

G (BSP), Rp (BSPP), W

DIN EN ISO 228, DIN EN 10226-1, ISO 7/1, BS 84

Für Innen- und Außengewinde
For internal and external threads

VHM
Carbide

R30 RH + LH

Z4 - Z5 DIN 6535
Ø d1 Ø d1

GF-R30



Einsatzgebiete – Material
Applications – material

► 358

P 1.1-3.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.2

P Gg/1" (tpi)	Ø d ₁ inch	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF R30-IKZ-HA	GF R30-IKZ-HB
19	≥ 1/4	9,9	10	70	16,7	40	4	GF162811.9545	GF162211.9545
14	≥ 1/2	11,9	12	80	20,9	45	4	GF162721.9548	GF162121.9548
14	≥ 1/2	15,9	16	90	26,3	48	5	GF162731.9548	GF162131.9548
11	≥ 1"	15,9	16	90	26,6	48	5	GF162731.9550	GF162131.9550
11	≥ 1"	19,9	20	105	33,5	50	5	GF162751.9550	GF162151.9550

TICN



Einsatzgebiete – Material
Applications – material

► 358

P 1.1-3.1	M 1.1-2.1	K 1.1-4.2
N 1.1-2.7	N 3.1-5.3	S 1.1-1.2, 2.1

P Gg/1" (tpi)	Ø d ₁ inch	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF R30-IKZ-HA TICN	GF R30-IKZ-HB TICN
19	≥ 1/4	9,9	10	70	16,7	40	4	GF162816.9545	GF162216.9545
14	≥ 1/2	11,9	12	80	20,9	45	4	GF162726.9548	GF162126.9548
14	≥ 1/2	15,9	16	90	26,3	48	5	GF162736.9548	GF162136.9548
11	≥ 1"	15,9	16	90	26,6	48	5	GF162736.9550	GF162136.9550
11	≥ 1"	19,9	20	105	33,5	50	5	GF162756.9550	GF162156.9550

1) Durchmesser bezogen auf Rohr-Innengewinde bzw. Rohr-Außengewinde
Diameter related to internal pipe thread resp. external pipe thread

Weitere Ausführungen auf Anfrage
Further designs upon request

Product
Finderv_C / f_Z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

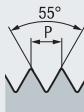
ZIRK-GF

Gigant

MoSys

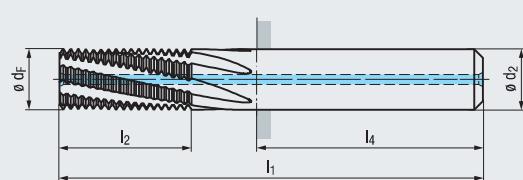
G (BSP), Rp (BSPP), W

DIN EN ISO 228, DIN EN 10226-1, ISO 7/1, BS 84



Für Innen- und Außengewinde

For internal and external threads

VHM
Carbide

R15

RH + LH

Z5 - Z8

DIN 6535



HA

HB



Ø d_1



Ø d_F



l_1



l_2



l_4

GF-Z

Mit höherer Nutenzahl
With increased number of flutes

Einsatzgebiete – Material

► 358

P | 1.1-5.1

K | 1.1-4.2

N | 1.1-1.5, 2.1-2.6

N | 3.1-4.2

N | 5.1-5.2

S | 1.1-1.3

GF-Z
R15-IKZ-HAGF-Z
R15-IKZ-HB

GF165961.9545

GF165361.9545

GF165971.9548

GF165371.9548

GF165981.9548

GF165381.9548

GF165991.9548

GF165391.9548

GF165981.9550

GF165381.9550

GF165991.9550

GF165391.9550

TiCN



Einsatzgebiete – Material

► 358

P | 1.1-5.1

M | 1.1-4.1

K | 1.1-4.2

N | 1.1-5.3

S | 1.1-2.6

H | 1.1-1.2

GF-Z
R15-IKZ-HAGF-Z
R15-IKZ-HB

TICN

TICN

GF165966.9545

GF165366.9545

GF165976.9548

GF165376.9548

GF165986.9548

GF165386.9548

GF165996.9548

GF165396.9548

GF165986.9550

GF165386.9550

GF165996.9550

GF165396.9550

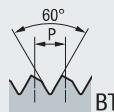
¹⁾ Durchmesser bezogen auf Rohr-Innengewinde bzw. Rohr-Außengewinde
Diameter related to internal pipe thread resp. external pipe thread

Weitere Ausführungen auf Anfrage
Further designs upon request

Gewinde-Tiefenlehrdorne
siehe Seite 588 - 591Thread depth plug gauges,
see page 588 - 591

LK-M, LK-MF

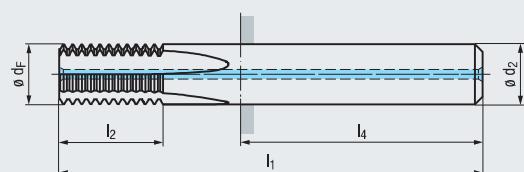
EMUGE-Norm · EMUGE Standard

VHM
Carbide

RH + LH

Z4 - Z5

DIN 6535

HA
HB $\varnothing d_1$ Für Innengewinde
For internal threadsEinsatzgebiete – Material
Applications – material

► 358

GF



P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

GF IKZ-HA	GF IKZ-HB
GF163811.9757	GF163211.9757
GF163721.9757	GF163121.9757
GF163811.9664	GF163211.9664
GF163721.9664	GF163121.9664
GF163731.9705	GF163131.9705
GF163751.9767	GF163151.9767

TICN

Einsatzgebiete – Material
Applications – material

► 358

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

GF IKZ-HA TICN	GF IKZ-HB TICN
GF163816.9757	GF163216.9757
GF163726.9757	GF163126.9757
GF163816.9664	GF163216.9664
GF163726.9664	GF163126.9664
GF163736.9705	GF163136.9705
GF163756.9767	GF163156.9767

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_v

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

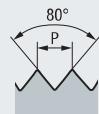
GF-KEG

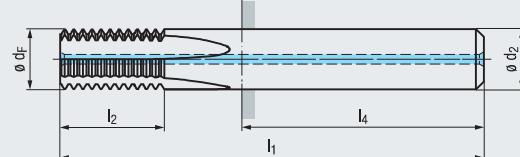
ZGF

ZIRK-GF

Gigant

MoSys


Pg
DIN 40430

 Für Innen- und Außengewinde
For internal and external threads
VHM
Carbide

RH + LH

Z4
DIN 6535
HA
HB

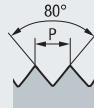
GF



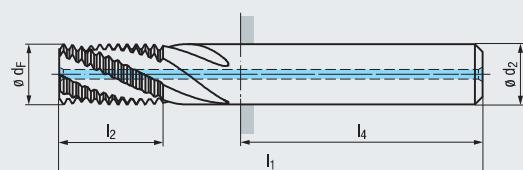
P 1.1-5.1 K 1.1-4.2 N 1.1-1.5, 2.1-2.6

N 3.1-4.2 N 5.1-5.2 S 1.1-1.3

Pg
DIN 40430



Für Innen- und Außengewinde
For internal and external threads



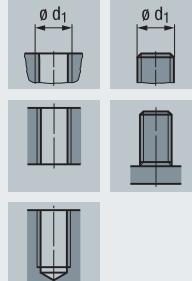
Einsatzgebiete – Material
Applications – material

► 358

VHM
Carbide

R30 RH + LH

Z4 DIN 6535
HA HB



GF-R30



P 1.1-3.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.2

GF R30-IKZ-HA

GF R30-IKZ-HB

GF162811.9661

GF162721.9662

GF162721.9663

GF162211.9661

GF162121.9662

GF162121.9663

TiCN



Einsatzgebiete – Material
Applications – material

► 358

P 1.1-3.1	M 1.1-2.1	K 1.1-4.2
N 1.1-2.7	N 3.1-5.3	S 1.1-1.2, 2.1

GF R30-IKZ-HA
TiCN

GF R30-IKZ-HB
TiCN

GF162816.9661

GF162726.9662

GF162726.9663

GF162216.9661

GF162126.9662

GF162126.9663

1) Durchmesser bezogen auf Rohr-Innengewinde bzw. Rohr-Außengewinde
Diameter related to internal pipe thread resp. external pipe thread

Weitere Ausführungen auf Anfrage
Further designs upon request

Product
Finder

v_c / f_z

M

MF

UNC
UN, UNS

UNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



**Product
Finder**v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

MF

EG (STI)

UNC

SELF-LOCK

UNF

UN

Tr

Mögliche Modifikationen siehe Seite 356 - 357

Possible modifications, see pages 356 - 357

Zubehör
Accessories

Seite · Page

444

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445

445

445

445

BGF Gewindefräsyklus · Thread milling cycle

ZBGF

GSF

GF

GF-VZ

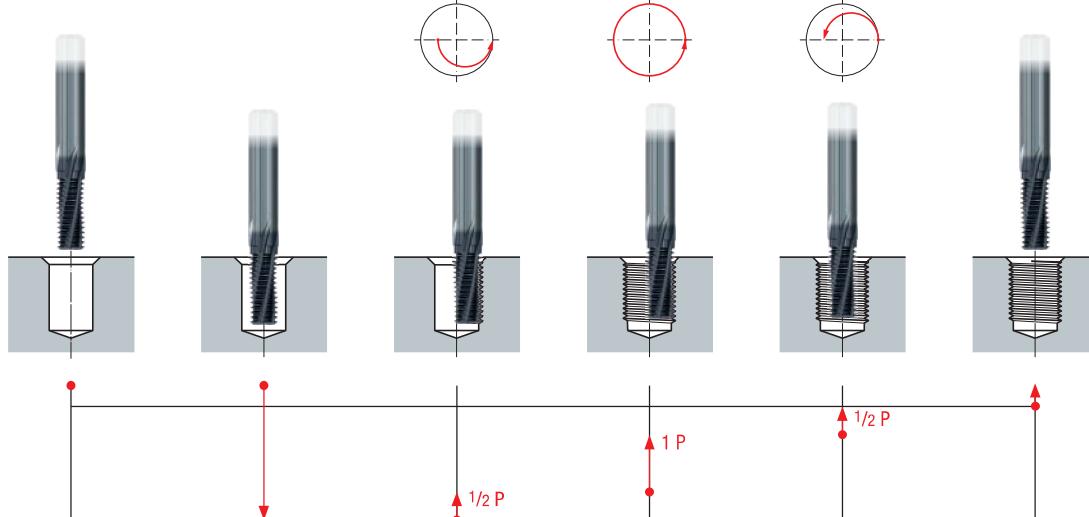
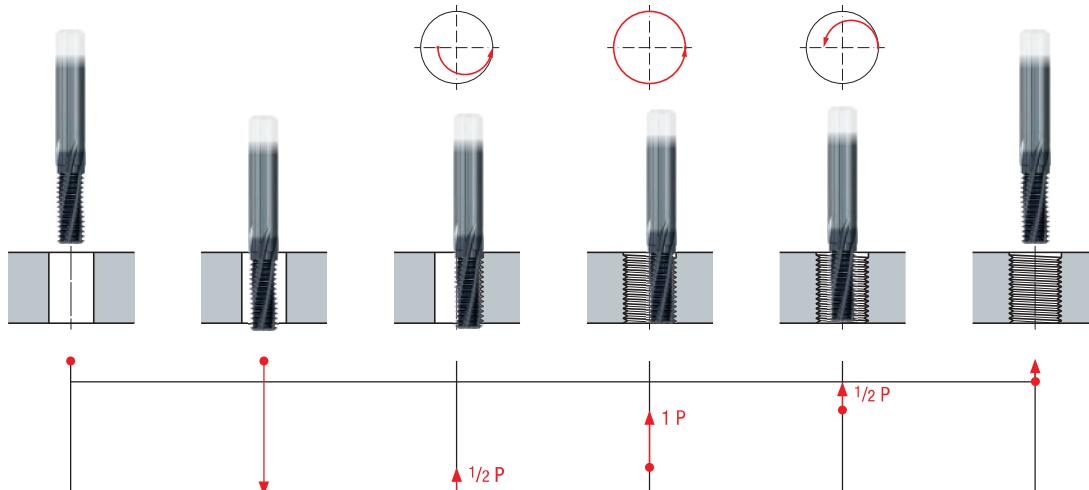
GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

**Gewindefräsyklus mit Entfernen des unvollständigen Ganges** · Thread milling cycle with removal of incomplete thread



GF-Vario-Z-AZR1



Seite · Page

446

M

446

MF

447

UNC

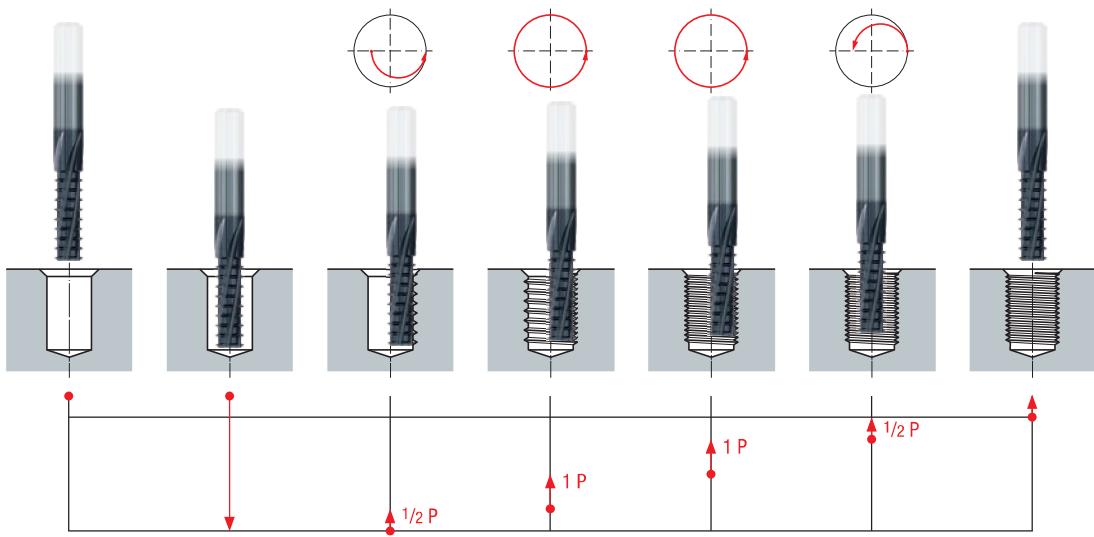
447

UNF

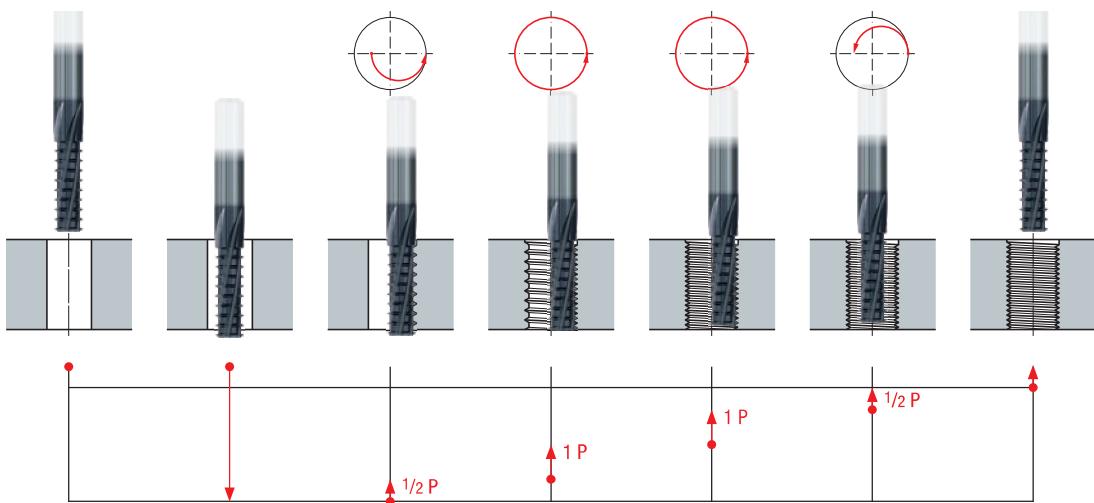
447

UN

Gewindefräsyklus · Thread milling cycle



Gewindefräsyklus mit Entfernen des unvollständigen Ganges · Thread milling cycle with removal of incomplete thread



Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

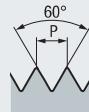
EG (STI)

SELF-LOCK

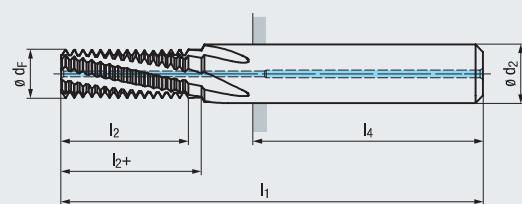
Tr

Zubehör
Accessories

M, MF



DIN 13

Für Innengewinde
For internal threadsMit Option zum Entfernen des unvollständigen Ganges
With option to remove the incomplete threadEinsatzgebiete – Material
Applications – material

► 358

VHM Carbide	TIALN 86
R15	RH + LH
Z4 - Z7	DIN 6535
	HA HB
	Ø d ₁
	Unvollständigen Gang entfernen Removal of incomplete thread

GF-Vario-Z

Mit höherer Nutzenzahl
With increased number of flutes

new



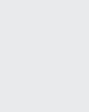
new



new

P 1.1-5.1 M 1.1-4.1 K 1.1-4.2
N 1.1-5.3 S 1.1-2.6 H 1.1-1.22 x d₁

MF



DIN 13

new



new



BGF	P mm	Ø d ₁ mm	Ø d _F mm	Ø d ₂	mit Option mit option					GF-Vario-Z 2xd ₁ R15-HA TIALN-86	GF-Vario-Z 2xd ₁ R15-IKZ-HA TIALN-86	GF-Vario-Z 2xd ₁ R15-IKZ-HB TIALN-86
					l ₁	l ₂	l ₂₊	l ₄	Z (Flutes)			
ZBGF	0,5	≥ M 3	2,4	6	51	6,3	7	36	4	GFB3572C.0030		
GSF	0,7	≥ M 4	3,15	6	55	8,7	9,8	36	4		GFB3572C.0040	GFB3512C.0040
	0,8	≥ M 5	4	6	55	10,8	12	36	4		GFB3572C.0050	GFB3512C.0050
GF	1	≥ M 6	4,8	6	58	12,5	14	36	4		GFB3572C.0060	GFB3512C.0060
	1,25	≥ M 8	6,5	8	62	16,9	18,7	36	4		GFB3572C.0080	GFB3512C.0080
GF-VZ	1,5	≥ M10	8,2	10	72	21,7	24	40	5		GFB3572C.0100	GFB3512C.0100
	1,75	≥ M12	9,9	10	78	25,3	28	40	5		GFB3572C.0112	GFB3512C.0112
GF-KEG	2	≥ M14	11,6	12	88	29	32	45	5		GFB3572C.0114	GFB3512C.0114
	2	≥ M16	13,6	14	95	33	36	45	5		GFB3572C.0116	GFB3512C.0116
ZGF	2,5	≥ M18	15	16	103	38,7	42,4	48	5		GFB3572C.0118	GFB3512C.0118
	2,5	≥ M20	17	18	108	41,2	44,9	48	6		GFB3572C.0120	GFB3512C.0120
	3	≥ M24	19,9	20	120	49,4	53,9	50	6		GFB3572C.0124	GFB3512C.0124

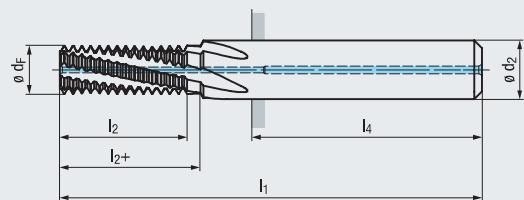
Weitere Ausführungen auf Anfrage
Further designs upon request

UNC, UNF, UN

ASME B1.1

Für Innengewinde
For internal threads

Mit Option zum Entfernen des unvollständigen Ganges
With option to remove the incomplete thread



Einsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN 86
R15	RH + LH
Z4 - Z8	DIN 6535
	HA HB
	Ø d ₁
	Unvollständigen Gang entfernen Removal of incomplete thread

new

new



GF-Vario-Z

Mit höherer Nutenzahl
With increased number of flutes



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

2 x d₁

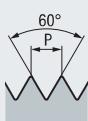
GF-Vario-Z
2xd₁
R15-IKZ-HA
TIALN-86

GF-Vario-Z
2xd₁
R15-IKZ-HB
TIALN-86

P Gg/1" (tpi)	Ø d ₁ inch	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₂₊	l ₄	Z (Flutes)	mit Option with option
24	≥ Nr.10	3,7	6	55	10	11,6	36	4	GFB3572C.5007
20	≥ 1/4	4,85	6	58	13,3	15,2	36	4	GFB3572C.5009
18	≥ 5/16	6,3	8	62	16,2	18,3	36	4	GFB3572C.5010
16	≥ 3/8	7,65	8	65	19,8	22,2	36	5	GFB3572C.5011
14	≥ 7/16	9	10	74	22,6	25,4	40	5	GFB3572C.5012
13	≥ 1/2	10,4	12	85	26,3	29,3	45	5	GFB3572C.5013
12	≥ 9/16	11,8	12	88	30,6	33,8	45	5	GFB3572C.5014
11	≥ 5/8	13	14	94	33,4	36,9	45	5	GFB3572C.5015
10	≥ 3/4	15,9	16	105	39,3	43,1	48	5	GFB3572C.5016

UNF, UN

ASME B1.1



P Gg/1" (tpi)	Ø d ₁ inch	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₂₊	l ₄	Z (Flutes)	mit Option with option
32	≥ Nr.10	3,9	6	55	9,9	11,1	36	4	GFB3572C.5041
28	≥ Nr.12	4,45	6	56	11,3	12,7	36	4	GFB3572C.5042
28	≥ 1/4	5,25	6	58	13,1	14,5	36	4	GFB3572C.5043
24	≥ 5/16	6,6	8	62	16,4	18	36	5	GFB3572C.5044
24	≥ 3/8	8,2	10	71	19,6	21,1	40	6	GFB3572C.5045
20	≥ 7/16	9,55	10	74	22,2	24,1	40	6	GFB3572C.5046
20	≥ 1/4	11,1	12	84	26	27,9	45	7	GFB3572C.5047
18	≥ 9/16	12,5	14	90	28,9	31	45	7	GFB3572C.5048
18	≥ 5/8	13,9	14	95	33,1	35,2	45	8	GFB3572C.5049
16	≥ 3/4	17	18	105	38,9	41,3	48	8	GFB3572C.5050

new

new



GF-Vario-Z
2xd₁
R15-IKZ-HA
TIALN-86

GF-Vario-Z
2xd₁
R15-IKZ-HB
TIALN-86

Weitere Ausführungen auf Anfrage
Further designs upon request



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

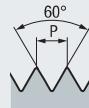
Pg

MJ
UNJC, UNJF

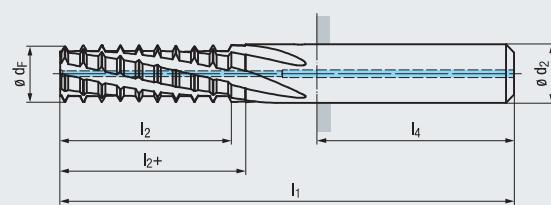
EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories**M, MF**

DIN 13

Für Innengewinde
For internal threadsMit Option zum Entfernen des unvollständigen Ganges
With option to remove the incomplete thread

Einsatzgebiete – Material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN 86
R15	RH + LH
Z4 - Z7	DIN 6535 HA HB
ø d ₁	ø d ₂
Unvollständigen Gang entfernen Removal of incomplete thread	

GF-Vario-Z-AZR1

Mit höherer Nutzenzahl
With increased number of flutes

new



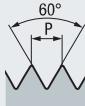
new



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

2,5 x d₁GF-Vario-Z
2,5x d₁
AZR1-R15-IKZ-HA
TIALN-86GF-Vario-Z
2,5x d₁
AZR1-R15-IKZ-HB
TIALN-86

GFB4573C.0040	GFB4513C.0040
GFB4573C.0050	GFB4513C.0050
GFB4573C.0060	GFB4513C.0060
GFB4573C.0080	GFB4513C.0080
GFB4573C.0100	GFB4513C.0100
GFB4573C.0112	GFB4513C.0112
GFB4573C.0114	GFB4513C.0114
GFB4573C.0116	GFB4513C.0116
GFB4573C.0118	GFB4513C.0118
GFB4573C.0120	GFB4513C.0120
GFB4573C.0124	GFB4513C.0124

MF

DIN 13

new

GF-Vario-Z
2,5x d₁
AZR1-R15-IKZ-HA
TIALN-86GF-Vario-Z
2,5x d₁
AZR1-R15-IKZ-HB
TIALN-86

GFB4573C.0251	GFB4513C.0251
GFB4573C.0276	GFB4513C.0276
GFB4573C.0301	GFB4513C.0301
GFB4573C.0277	GFB4513C.0277
GFB4573C.0302	GFB4513C.0302
GFB4573C.0303	GFB4513C.0303
GFB4573C.0331	GFB4513C.0331
GFB4573C.0359	GFB4513C.0359

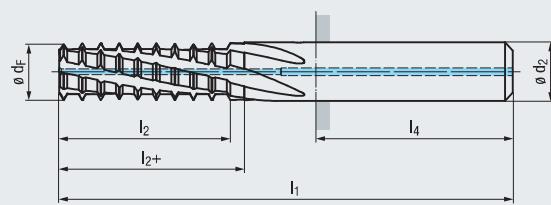
Weitere Ausführungen auf Anfrage
Further designs upon request

UNC, UNF, UN

ASME B.1.1

Für Innengewinde
For internal threads

Mit Option zum Entfernen des unvollständigen Ganges
With option to remove the incomplete thread



Einsatzgebiete – Material
Applications – material

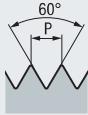
► 358

Gewindetiefe
Thread depth

P Gg/1" (tpi)	$\varnothing d_1$ inch	$\varnothing d_F$ mm	$\varnothing d_2$	mit Option with option				Z (Flutes)	P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
				l_1	l_2	l_{2+}	l_4		N 1.1-5.3	S 1.1-2.6	H 1.1-1.2
24	$\geq \text{Nr.} 10$	3,7	6	58	12,2	13,7	36	4	GFB4573C.5007	GFB4513C.5007	
20	$\geq 1/4$	4,85	6	64	17,1	19	36	4	GFB4573C.5009	GFB4513C.5009	
18	$\geq 5/16$	6,3	8	68	20,4	22,5	36	4	GFB4573C.5010	GFB4513C.5010	
16	$\geq 3/8$	7,65	8	72	24,6	27	36	5	GFB4573C.5011	GFB4513C.5011	
14	$\geq 7/16$	9	10	82	28,1	30,8	40	5	GFB4573C.5012	GFB4513C.5012	
13	$\geq 1/2$	10,4	12	93	32,2	35,1	45	5	GFB4573C.5013	GFB4513C.5013	
12	$\geq 9/16$	11,8	12	98	37	40,2	45	5	GFB4573C.5014	GFB4513C.5014	
11	$\geq 5/8$	13	14	102	40,3	43,8	45	5	GFB4573C.5015	GFB4513C.5015	
10	$\geq 3/4$	15,9	16	117	49,5	53,3	48	5	GFB4573C.5016	GFB4513C.5016	

UNF, UN

ASME B.1.1



P Gg/1" (tpi)	$\varnothing d_1$ inch	$\varnothing d_F$ mm	$\varnothing d_2$	mit Option with option				Z (Flutes)	GF-Vario-Z 2,5xd ₁ AZR1-R15-IKZ-HA TIALN-86	GF-Vario-Z 2,5xd ₁ AZR1-R15-IKZ-HB TIALN-86	
				l_1	l_2	l_{2+}	l_4		N 5.4-10.8	S 5.4-10.8	H 5.4-10.8
32	$\geq \text{Nr.} 10$	3,9	6	58	12,3	13,5	36	4	GFB4573C.5041	GFB4513C.5041	
28	$\geq \text{Nr.} 12$	4,45	6	60	14	15,4	36	4	GFB4573C.5042	GFB4513C.5042	
28	$\geq 1/4$	5,25	6	64	16,8	18,1	36	4	GFB4573C.5043	GFB4513C.5043	
24	$\geq 5/16$	6,6	8	68	20,6	22,2	36	5	GFB4573C.5044	GFB4513C.5044	
20	$\geq 7/16$	9,55	10	82	28,6	30,5	40	6	GFB4573C.5046	GFB4513C.5046	
18	$\geq 9/16$	12,5	14	98	36	38,1	45	7	GFB4573C.5048	GFB4513C.5048	
18	$\geq 5/8$	13,9	14	102	40,2	42,3	45	8	GFB4573C.5049	GFB4513C.5049	
16	$\geq 3/4$	17	18	115	48,4	50,8	48	8	GFB4573C.5050	GFB4513C.5050	

Weitere Ausführungen auf Anfrage
Further designs upon request

VHM Carbide	TIALN 86
R15	RH + LH
Z4 - Z8	DIN 6535
	HA HB



GF-Vario-Z-AZR1



Mit höherer Nutenzahl
With increased number of flutes

new



2,5 x d_1

GF-Vario-Z
2,5xd₁
AZR1-R15-IKZ-HA
TIALN-86

GF-Vario-Z
2,5xd₁
AZR1-R15-IKZ-HB
TIALN-86

new

Product
Finderv_c / f_v

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

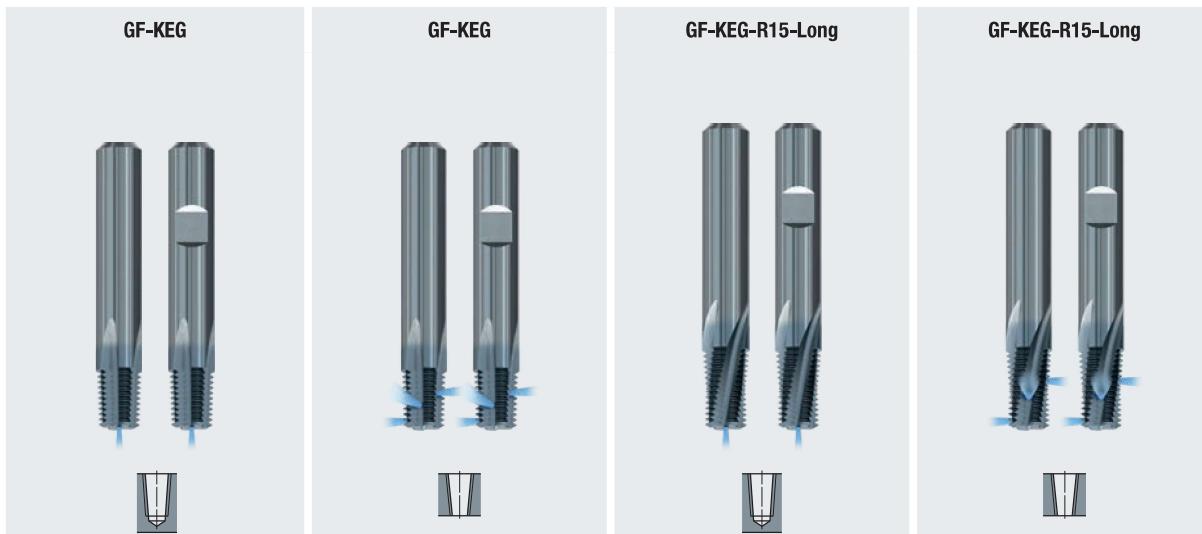
ZIRK-GF

Gigant

MoSys



[Product Finder](#)[v_c / f_z](#)[M](#)[MF](#)[UNC
UN, UNS](#)[UNF
UNEF](#)[G, Rp](#)[NPT, NPTF
Rc, W](#)[BSW, BSF](#)[Pg](#)[MJ
UNJC, UNJF](#)[EG \(STI\)](#)[SELF-LOCK](#)[Tr](#)[Zubehör
Accessories](#)[BGF](#)[ZBGF](#)[GSF](#)[GF](#)[GF-VZ](#)[GF-KEG](#)[ZGF](#)[ZIRK-GF](#)[Gigant](#)[MoSys](#)



Seite · Page

451	452			NPT
		453	454	NPT (API-LP)
456	457	458	459	NPTF
461	462			Rc (BSPT)

Mögliche Modifikationen siehe Seite 356 - 357

Possible modifications, see pages 356 - 357

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

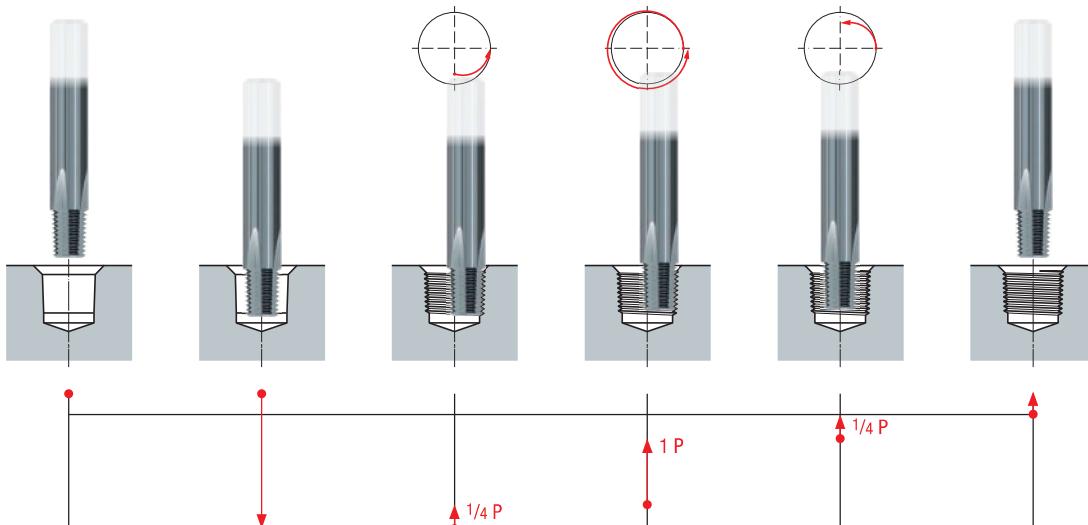
ZIRK-GF

Gigant

MoSys



Gewindefräsyklus · Thread milling cycle



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

b) Kegelig vorarbeiten
Tapered preparation of thread hole

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

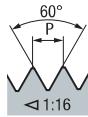
GF-KEG

ZGF

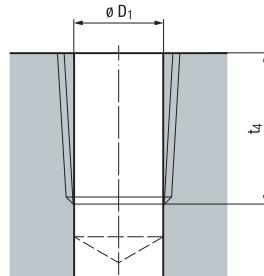
ZIRK-GF

Gigant

MoSys

**NPT**

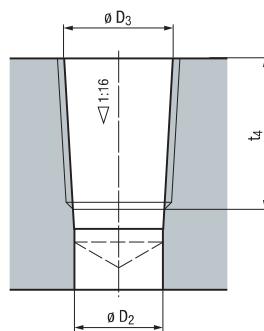
ANSI/ASME B1.20.1

a) Zylindrisch vorarbeiten
Cylindrical preparation of thread hole

EMUGE NPT-Gewindefräser sind für die Lochformen a) und b) geeignet.

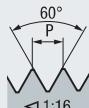
EMUGE NPT thread milling cutters are suited for the hole forms a) and b).

Nenngröße Nom. size Ø d ₁	P Gg/1" (tpi)	Ø D ₁	t ₄
1/16	27	6,15	8,30
1/8	27	8,50	8,30
1/4	18	11,00	12,15
3/8	18	14,40	12,45
1/2	14	17,80	16,30
3/4	14	23,15	16,30
1"	11 1/2	29,05	19,55
1 1/4	11 1/2	37,80	20,05
1 1/2	11 1/2	43,85	20,05
2"	11 1/2	55,85	20,45



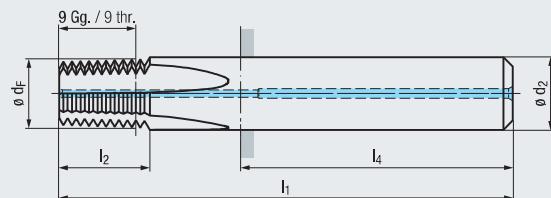
Nenngröße Nom. size Ø d ₁	P Gg/1" (tpi)	Ø D ₂	Ø D ₃ +0,05	t ₄
1/16	27	5,95	6,39	8,30
1/8	27	8,30	8,74	8,30
1/4	18	10,75	11,36	12,15
3/8	18	14,15	14,80	12,45
1/2	14	17,45	18,32	16,30
3/4	14	22,80	23,67	16,30
1"	11 1/2	28,65	29,69	19,55
1 1/4	11 1/2	37,35	38,45	20,05
1 1/2	11 1/2	43,45	44,52	20,05
2"	11 1/2	55,45	56,56	20,45



NPT

ANSI/ASME B1.20.1

Für kegeliges Innengewinde
For internal tapered threads



Einsatzgebiete – Material
Applications – material

► 358

Nenngröße

Nom. size Ø d ₁	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF-KEG IKZ-HA	GF-KEG IKZ-HB
1/16	27	5,9	8	55	9,9	36	3	GF173701.5763	GF173101.5763
1/8	27	7,65	8	55	9,9	36	3	GF173701.5764	GF173101.5764
1/4	18	10,15	12	75	14,8	45	4	GF173711.5765	GF173111.5765
3/8	18	11,15	12	75	14,8	45	4	GF173711.5766	GF173111.5766
1/2 - 3/4	14	14,25	16	80	19	48	4	GF173731.9678	GF173131.9678
1" - 2"	11 1/2	19,6	20	90	23,1	50	5	GF173751.9679	GF173151.9679

VHM
Carbide

RH + LH

Z3 - Z5
DIN 6535
HA
HB

GF-KEG



P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

TICN



TICN

Einsatzgebiete – Material
Applications – material

► 358

Nenngröße

Nom. size Ø d ₁	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF-KEG IKZ-HA TICN	GF-KEG IKZ-HB TICN
1/16	27	5,9	8	55	9,9	36	3	GF173706.5763	GF173106.5763
1/8	27	7,65	8	55	9,9	36	3	GF173706.5764	GF173106.5764
1/4	18	10,15	12	75	14,8	45	4	GF173716.5765	GF173116.5765
3/8	18	11,15	12	75	14,8	45	4	GF173716.5766	GF173116.5766
1/2 - 3/4	14	14,25	16	80	19	48	4	GF173736.9678	GF173136.9678
1" - 2"	11 1/2	19,6	20	90	23,1	50	5	GF173756.9679	GF173156.9679

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

Weitere Ausführungen auf Anfrage
Further designs upon request

Anwendungshinweis: Es wird ein NC-Programm für schneckenförmiges Wendelnutfräsen benötigt, da sonst ein Absatz im gefrästen Gewinde entsteht
Application recommendation: You must have an NC programme for spiral-worm keyway milling, otherwise the finished thread will have a stepped profile



Gewindebohrer für kegelige
Innengewinde siehe Seite 248 - 263

Taps for internal tapered threads,
see page 248 - 263

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

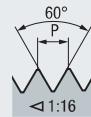
UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

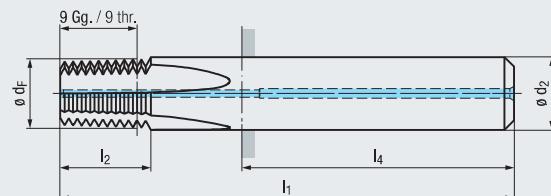
Pg

MJ
UNJC, UNJF**NPT**

ANSI/ASME B1.20.1

Für kegeliges Innengewinde

For internal tapered threads

VHM
Carbide

RH + LH



DIN 6535

HA
HB**GF-KEG**

P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

GF-KEG
IKZN-HAGF-KEG
IKZN-HB
EG (STI) Einsatzgebiete – Material
Applications – material ► 358

SELFF-LOCK Nenngröße

Tr	Nom. size	P	ø d _F	ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)
	1/16	27	5,9	8	55	9,9	36	3
	1/8	27	7,65	8	55	9,9	36	3
Zubehör	1/4	18	10,15	12	75	14,8	45	4
Accessories	3/8	18	11,15	12	75	14,8	45	4
	1/2 - 3/4	14	14,25	16	80	19	48	4
	1" - 2"	11 1/2	19,6	20	90	23,1	50	5

GF193701.5763

GF193101.5763

GF193701.5764

GF193101.5764

GF193711.5765

GF193111.5765

GF193711.5766

GF193111.5766

GF193731.9678

GF193131.9678

GF193751.9679

GF193151.9679

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

TICN



P | 1.1-5.1

M | 1.1-4.1

N | 1.1-5.3

S | 1.1-2.6

H | 1.1-1.2

GF-KEG
IKZN-HAGF-KEG
IKZN-HB

TICN

GF193706.5763

GF193106.5763

GF193706.5764

GF193106.5764

GF193716.5765

GF193116.5765

GF193716.5766

GF193116.5766

GF193736.9678

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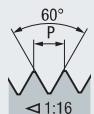
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Weitere Ausführungen auf Anfrage
Further designs upon request

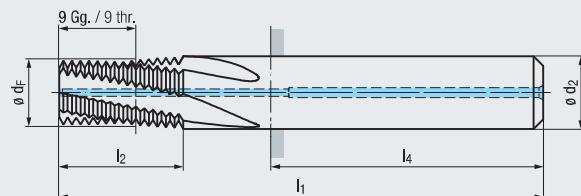
Anwendungshinweis: Es wird ein NC-Programm für schneckenförmiges Wendelnutfräsen benötigt, da sonst ein Absatz im gefrästen Gewinde entsteht
Application recommendation: You must have an NC programme for spiral-worm keyway milling, otherwise the finished thread will have a stepped profile

NPT (API-LP)

ANSI/ASME B1.20.1



Für kegeliges Innengewinde
For internal tapered threads



Einsatzgebiete – Material
Applications – material

► 358

VHM
Carbide

R15

RH + LH

Z3 - Z5



DIN 6535



HA

HB

Ø d₁Ø d₂

GF-KEG-R15-Long



P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

Nom. size Ø d ₁	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF-KEG R15-Long-IKZ-HA	GF-KEG R15-Long-IKZ-HB
								GF175901.5763	GF175301.5763
1/16	27	5,9	8	60	13,6	36	3	GF175901.5764	GF175301.5764
1/8	27	7,65	8	60	13,6	36	3	GF175911.5765	GF175311.5765
1/4	18	10,15	12	80	20,4	45	4	GF175911.5766	GF175311.5766
3/8	18	11,15	12	80	20,4	45	4	GF175931.9678	GF175331.9678
1/2 - 3/4	14	14,25	16	85	26,3	48	4	GF175951.9679	GF175351.9679
1" - 2"	11 1/2	19,6	20	95	32	50	5		

TICN



Einsatzgebiete – Material
Applications – material

► 358

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

Nom. size Ø d ₁	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF-KEG R15-Long-IKZ-HA TICN	GF-KEG R15-Long-IKZ-HB TICN
								GF175906.5764	GF175306.5764
1/16	27	5,9	8	60	13,6	36	3	GF175916.5765	GF175316.5765
1/8	27	7,65	8	60	13,6	36	3	GF175916.5766	GF175316.5766
1/4	18	10,15	12	80	20,4	45	4	GF175936.9678	GF175336.9678
3/8	18	11,15	12	80	20,4	45	4	GF175956.9679	GF175356.9679
1/2 - 3/4	14	14,25	16	85	26,3	48	4		
1" - 2"	11 1/2	19,6	20	95	32	50	5		

Weitere Ausführungen auf Anfrage
Further designs upon request

Anwendungshinweis: Es wird ein NC-Programm für schneckenförmiges Wendelnutfräsen benötigt, da sonst ein Absatz im gefrästen Gewinde entsteht
Application recommendation: You must have an NC programme for spiral-worm keyway milling, otherwise the finished thread will have a stepped profile

- Product Finder
- v_c / f_z
- M
- MF
- UNC UN, UNS
- UNF UNEF
- G, Rp
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr
- Zubehör Accessories
- BGF
- ZBGF
- GSF
- GF
- GF-VZ
- GF-KEG
- ZGF
- ZIRK-GF
- Gigant
- MoSys



Product Finder

v_c / f_z

M

MF

UNC UN, UNS

UNF UNEF

G, Rp

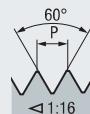
NPT, NPTF
Rc, W

BSW, BSF

Pg

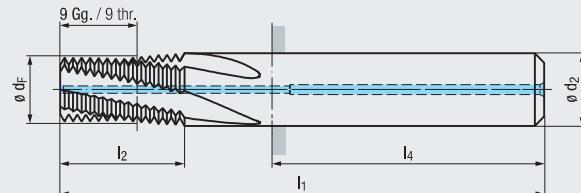
MJ
UNJC, UNJF**NPT (API-LP)**

ANSI/ASME B1.20.1



Für kegeliges Innengewinde

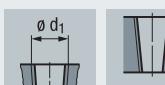
For internal tapered threads

VHM
Carbide

R15

RH + LH

Z3 - Z5 DIN 6535

ø d₁**GF-KEG-R15-Long**

P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

GF-KEG
R15-Long-IKZN-HAGF-KEG
R15-Long-IKZN-HB

TICN



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

GF-KEG
R15-Long-IKZN-HA
TICNGF-KEG
R15-Long-IKZN-HB
TICNWeitere Ausführungen auf Anfrage
Further designs upon requestEinsatzgebiete – Material
Applications – material

» 358

SELF-LOCK

Tr

Zubehör

Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

Nom. size P ø d_F
Nom. size Gg/1" (tpi) mmø d₁ ø d₂ l₁ l₂ l₄ Z
mm mm mm mm mm (Flutes)

	ø d ₁	P Gg/1" (tpi)	ø d _F mm	ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)
1/16	27	5,9	8	60	13,6	36	3	
1/8	27	7,65	8	60	13,6	36	3	
1/4	18	10,15	12	80	20,4	45	4	
3/8	18	11,15	12	80	20,4	45	4	
1/2 - 3/4	14	14,25	16	85	26,3	48	4	
1" - 2"	11 1/2	19,6	20	95	32	50	5	

GF-KEG
R15-Long-IKZN-HA
TICNGF-KEG
R15-Long-IKZN-HB
TICNEinsatzgebiete – Material
Applications – material

» 358

Nenngröße
Nom. sizeø d₁ P ø d_F
ø d₁ Gg/1" (tpi) mmø d₂ l₁ l₂ l₄ Z
mm mm mm mm (Flutes)

	ø d ₁	P Gg/1" (tpi)	ø d _F mm	ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)
1/16	27	5,9	8	60	13,6	36	3	
1/8	27	7,65	8	60	13,6	36	3	
1/4	18	10,15	12	80	20,4	45	4	
3/8	18	11,15	12	80	20,4	45	4	
1/2 - 3/4	14	14,25	16	85	26,3	48	4	
1" - 2"	11 1/2	19,6	20	95	32	50	5	

GF-KEG
R15-Long-IKZN-HA
TICNGF-KEG
R15-Long-IKZN-HB
TICN

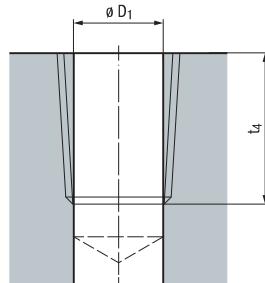
Anwendungshinweis: Es wird ein NC-Programm für schneckenförmiges Wendelnutfräsen benötigt, da sonst ein Absatz im gefrästen Gewinde entsteht
Application recommendation: You must have an NC programme for spiral-worm keyway milling, otherwise the finished thread will have a stepped profile

NPTF

ANSI B1.20.3

a) Zylindrisch vorarbeiten

Cylindrical preparation of thread hole



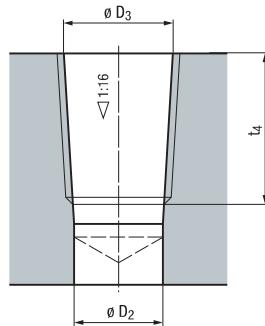
EMUGE NPTF-Gewindefräser sind für die Lochformen a) und b) geeignet.

EMUGE NPTF thread milling cutters are suited for the hole forms a) and b).

Nenngröße Nom. size	P Gg/1" (tpi)	Ø D ₁	t ₄
1/16	27	6,10	8,30
1/8	27	8,45	8,30
1/4	18	10,90	12,15
3/8	18	14,30	12,45
1/2	14	17,60	16,30
3/4	14	23,00	16,30
1"	11 1/2	28,75	19,55
1 1/4	11 1/2	37,50	20,05
1 1/2	11 1/2	43,75	20,05
2"	11 1/2	55,75	20,45

b) Kegelig vorarbeiten

Tapered preparation of thread hole



Nenngröße Nom. size	P Gg/1" (tpi)	Ø D ₂	Ø D ₃ +0,05	t ₄
1/16	27	5,95	6,41	8,30
1/8	27	8,30	8,76	8,30
1/4	18	10,75	11,40	12,15
3/8	18	14,15	14,84	12,45
1/2	14	17,45	18,33	16,30
3/4	14	22,80	23,68	16,30
1"	11 1/2	28,65	29,72	19,55
1 1/4	11 1/2	37,35	38,48	20,05
1 1/2	11 1/2	43,45	44,55	20,05
2"	11 1/2	55,45	56,59	20,45

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

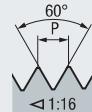
UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

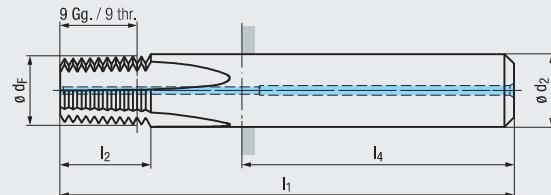
MJ
UNJC, UNJF

NPTF

ANSI B1.20.3

Für kegeliges Innengewinde

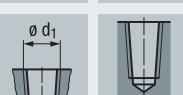
For internal tapered threads

VHM
Carbide

RH + LH

Z3 - Z5 DIN 6535

HA HB



GF-KEG



P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

GF-KEG
IKZ-HAGF-KEG
IKZ-HBEinsatzgebiete – Material
Applications – material

» 358

SELF-LOCK

Nenngröße

	Nom. size	P	Ø d _F	Ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF-KEG IKZ-HA	GF-KEG IKZ-HB
Tr	1/16	27	5,9	8	55	9,8	36	3	GF173701.5782	GF173101.5782
	1/8	27	7,65	8	55	9,8	36	3	GF173701.5783	GF173101.5783
Zubehör	1/4	18	10,15	12	75	14,8	45	4	GF173711.5784	GF173111.5784
Accessories	3/8	18	11,15	12	75	14,8	45	4	GF173711.5785	GF173111.5785
	1/2	14	14,25	16	80	19	48	4	GF173731.5786	GF173131.5786
	3/4	14	14,25	16	80	19	48	4	GF173731.5787	GF173131.5787
BGF	1" - 2"	11 1/2	19,6	20	90	23,1	50	5	GF173751.9684	GF173151.9684

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

TICN



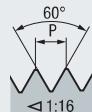
P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

GF-KEG
IKZ-HA
TICNGF-KEG
IKZ-HB
TICNEinsatzgebiete – Material
Applications – material

» 358

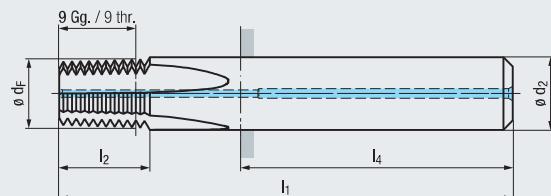
Weitere Ausführungen auf Anfrage
Further designs upon request

Anwendungshinweis: Es wird ein NC-Programm für schneckenförmiges Wendelnutfräsen benötigt, da sonst ein Absatz im gefrästen Gewinde entsteht.
Application recommendation: You must have an NC programme for spiral-worm keyway milling, otherwise the finished thread will have a stepped profile.

NPTF

ANSI B1.20.3

Für kegeliges Innengewinde
For internal tapered threads



Einsatzgebiete – Material
Applications – material

► 358

VHM
Carbide

RH + LH

Z3 - Z5

DIN 6535

HA
HB

GF-KEG



P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

Nom. size Ø d ₁	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF-KEG IKZN-HA	GF-KEG IKZN-HB
								GF-KEG IKZN-HA	GF-KEG IKZN-HB
1/16	27	5,9	8	55	9,8	36	3	GF193701.5782	GF193101.5782
1/8	27	7,65	8	55	9,8	36	3	GF193701.5783	GF193101.5783
1/4	18	10,15	12	75	14,8	45	4	GF193711.5784	GF193111.5784
3/8	18	11,15	12	75	14,8	45	4	GF193711.5785	GF193111.5785
1/2	14	14,25	16	80	19	48	4	GF193731.5786	GF193131.5786
3/4	14	14,25	16	80	19	48	4	GF193731.5787	GF193131.5787
1" - 2"	11 1/2	19,6	20	90	23,1	50	5	GF193751.9684	GF193151.9684

TICN



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

Nom. size Ø d ₁	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	l ₁	l ₂	l ₄	Z (Flutes)	GF-KEG IKZN-HA TICN	GF-KEG IKZN-HB TICN
								GF-KEG IKZN-HA TICN	GF-KEG IKZN-HB TICN
1/16	27	5,9	8	55	9,8	36	3	GF193706.5782	GF193106.5782
1/8	27	7,65	8	55	9,8	36	3	GF193706.5783	GF193106.5783
1/4	18	10,15	12	75	14,8	45	4	GF193716.5784	GF193116.5784
3/8	18	11,15	12	75	14,8	45	4	GF193716.5785	GF193116.5785
1/2	14	14,25	16	80	19	48	4	GF193736.5786	GF193136.5786
3/4	14	14,25	16	80	19	48	4	GF193736.5787	GF193136.5787
1" - 2"	11 1/2	19,6	20	90	23,1	50	5	GF193756.9684	GF193156.9684

Weitere Ausführungen auf Anfrage
Further designs upon request

Anwendungshinweis: Es wird ein NC-Programm für schneckenförmiges Wendelnutfräsen benötigt, da sonst ein Absatz im gefrästen Gewinde entsteht
Application recommendation: You must have an NC programme for spiral-worm keyway milling, otherwise the finished thread will have a stepped profile

Product Finder

v_c / f_v

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product Finder

v_c / f_z

M

MF

UNC UN, UNS

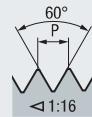
UNF UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

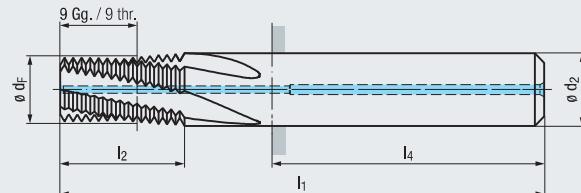
Pg

MJ
UNJC, UNJF**NPTF**

ANSI B1.20.3

Für kegeliges Innengewinde

For internal tapered threads

VHM
Carbide

R15

RH + LH

Z3 - Z5

DIN 6535

ø d₁

HA

ø d₂

HB

GF-KEG-R15-Long

P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

GF-KEG
R15-Long-IKZ-HAGF-KEG
R15-Long-IKZ-HB

EG (STI)

Einsatzgebiete – Material
Applications – material

» 358

SELF-LOCK

Nenngröße

Tr

Zubehör

Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

Knick

Nom. size

P

ø d₁

Gg/1" (tpi)

ø d_F

mm

ø d₂l₁l₂l₄

(Flutes)

Z

(Flutes)

TICN



P | 1.1-5.1

N | 1.1-5.3

M | 1.1-4.1

S | 1.1-2.6

K | 1.1-4.2

H | 1.1-1.2

GF-KEG
R15-Long-IKZ-HAGF-KEG
R15-Long-IKZ-HB

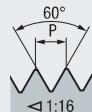
TICN

Weitere Ausführungen auf Anfrage
Further designs upon request

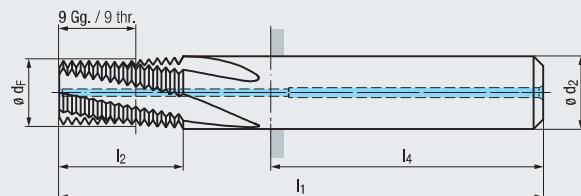
Anwendungshinweis: Es wird ein NC-Programm für schneckenförmiges Wendelnutfräsen benötigt, da sonst ein Absatz im gefrästen Gewinde entsteht
Application recommendation: You must have an NC programme for spiral-worm keyway milling, otherwise the finished thread will have a stepped profile



ANSI B1.20.3



Für kegeliges Innengewinde
For internal tapered threads



Einsatzgebiete – Material
Applications – material

► 358

VHM Carbide	R15	RH + LH
Z3 - Z5	DIN 6535	HA HB
∅ d ₁	∅ d ₂	

GF-KEG-R15-Long



P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

GF-KEG
R15-Long-IKZN-HAGF-KEG
R15-Long-IKZN-HB

Nenngröße Nom. size	P Gg/1" (tpi)	∅ d _F mm	∅ d ₂	l ₁	l ₂	l ₄	Z (Flutes)	
1/16	27	5,9	8	60	13,6	36	3	GF195901.5782
1/8	27	7,65	8	60	13,6	36	3	GF195901.5783
1/4	18	10,15	12	80	20,4	45	4	GF195911.5784
3/8	18	11,15	12	80	20,4	45	4	GF195911.5785
1/2	14	14,25	16	85	26,3	48	4	GF195931.5786
3/4	14	14,25	16	85	26,2	48	4	GF195931.5787
1" - 2"	11 1/2	19,6	20	95	32	50	5	GF195951.9684

TICN



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

GF-KEG
R15-Long-IKZN-HA
TICNGF-KEG
R15-Long-IKZN-HB
TICN

Nenngröße Nom. size	P Gg/1" (tpi)	∅ d _F mm	∅ d ₂	l ₁	l ₂	l ₄	Z (Flutes)	
1/16	27	5,9	8	60	13,6	36	3	GF195906.5782
1/8	27	7,65	8	60	13,6	36	3	GF195906.5783
1/4	18	10,15	12	80	20,4	45	4	GF195916.5784
3/8	18	11,15	12	80	20,4	45	4	GF195916.5785
1/2	14	14,25	16	85	26,3	48	4	GF195936.5786
3/4	14	14,25	16	85	26,2	48	4	GF195936.5787
1" - 2"	11 1/2	19,6	20	95	32	50	5	GF195956.9684

Weitere Ausführungen auf Anfrage
Further designs upon request

Anwendungshinweis: Es wird ein NC-Programm für schneckenförmiges Wendelnutfräsen benötigt, da sonst ein Absatz im gefrästen Gewinde entsteht
Application recommendation: You must have an NC programme for spiral-worm keyway milling, otherwise the finished thread will have a stepped profile

Product Finder

v_C / f_v

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

b) Kegelig vorarbeiten
Tapered preparation of thread hole

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

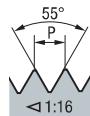
GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

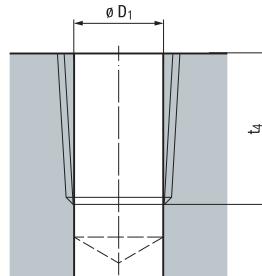


RC (BSPT)

DIN EN 10226-2, ISO 7-1

a) Zylindrisch vorarbeiten

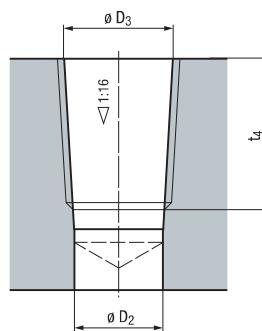
Cylindrical preparation of thread hole



EMUGE Rc-Gewindefräser sind für die Lochformen a) und b) geeignet.

EMUGE Rc thread milling cutters are suited for the hole forms a) and b).

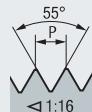
Nenngröße Nom. size	P Gg/1" (tpi)	Ø D ₁	t ₄
Ø d ₁	Gg/1" (tpi)	Ø D ₁	t ₄
1/16	28	6,15	7,85
1/8	28	8,15	7,85
1/4	19	10,85	11,65
3/8	19	14,3	12,05
1/2	14	17,8	15,9
3/4	14	23,2	16,75
1"	11	29,2	19,65
1 1/4	11	37,8	21,95
1 1/2	11	43,7	21,95
2"	11	55,2	26,25



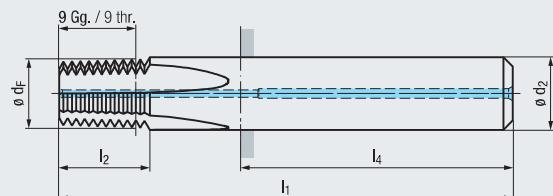
Nenngröße Nom. size	P Gg/1" (tpi)	Ø D ₂	Ø D ₃ (JS11)	t ₄
Ø d ₁	Gg/1" (tpi)	Ø D ₂	Ø D ₃ (JS11)	t ₄
1/16	28	6,1	6,56	7,85
1/8	28	8,1	8,57	7,85
1/4	19	10,75	11,45	11,65
3/8	19	14,25	14,95	12,05
1/2	14	17,7	18,63	15,9
3/4	14	23,1	24,12	16,75
1"	11	29,1	30,29	19,65
1 1/4	11	37,6	38,95	21,95
1 1/2	11	43,5	44,85	21,95
2"	11	55	56,66	26,25

RC (BSPT)

DIN EN 10226-2, ISO 7-1



Für kegeliges Innengewinde
For internal tapered threads



Einsatzgebiete – Material
Applications – material

► 358

Nenngröße

Nom. size

Ø d₁

P

Gg/1" (tpi)

Ø d_F

mm

Ø d₂

mm

l₁

mm

l₂

mm

l₄

mm

Z

(Flutes)

Ø d ₁	Gg/1" (tpi)	Ø d _F mm	Ø d ₂ mm	l ₁ mm	l ₂ mm	l ₄ mm	Z (Flutes)	P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
								N 3.1-4.2	N 5.1-5.2	S 1.1-1.3
1/8	28	7,65	8	55	8,6	36	3	GF173701.4115	GF173101.4115	
1/4	19	10,15	12	75	14	45	4	GF173711.4116	GF173111.4116	
3/8	19	11,15	12	75	13,9	45	4	GF173711.4117	GF173111.4117	
1/2 - 3/4	14	14,25	16	80	19,1	48	4	GF173731.9561	GF173131.9561	
1" - 1 1/2	11	19,6	20	90	24,3	50	5	GF173751.9562	GF173151.9562	

VHM Carbide

RH + LH

Z3 - Z5



DIN 6535



HA

HB

Ø d₁Ø d₂

GF-KEG



TICN



P 1.1-5.1

N 1.1-5.3

M 1.1-4.1

S 1.1-2.6

K 1.1-4.2

H 1.1-1.2

Einsatzgebiete – Material
Applications – material

► 358

Nenngröße

Nom. size

Ø d₁

P

Gg/1" (tpi)

Ø d_F

mm

Ø d₂

mm

l₁

mm

l₂

mm

l₄

mm

Z

(Flutes)

Ø d ₁	Gg/1" (tpi)	Ø d _F mm	Ø d ₂ mm	l ₁ mm	l ₂ mm	l ₄ mm	Z (Flutes)	P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
								N 1.1-5.3	S 1.1-2.6	H 1.1-1.2
1/8	28	7,65	8	55	8,6	36	3	GF173706.4115	GF173106.4115	
1/4	19	10,15	12	75	14	45	4	GF173716.4116	GF173116.4116	
3/8	19	11,15	12	75	13,9	45	4	GF173716.4117	GF173116.4117	
1/2 - 3/4	14	14,25	16	80	19,1	48	4	GF173736.9561	GF173136.9561	
1" - 1 1/2	11	19,6	20	90	24,3	50	5	GF173756.9562	GF173156.9562	

Weitere Ausführungen auf Anfrage
Further designs upon request

Product Finder

v_C / f_Z

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Schneideisen für kegelige
Außengewinde siehe Seite 533 - 535

Dies for external tapered threads,
see page 533 - 535

Product
Finderv_c / f_z

M

MF

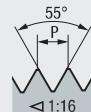
UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

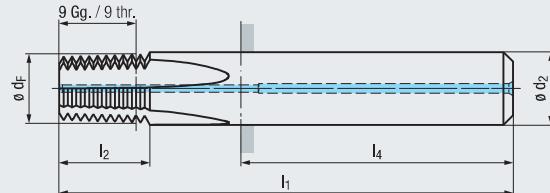
Pg

MJ
UNJC, UNJF**Rc (BSPT)**

DIN EN 10226-2, ISO 7-1

Für kegeliges Innengewinde

For internal tapered threads

VHM
Carbide

RH + LH



DIN 6535

**GF-KEG**

P 1.1-5.1	K 1.1-4.2	N 1.1-1.5, 2.1-2.6
N 3.1-4.2	N 5.1-5.2	S 1.1-1.3

GF-KEG
IKZN-HAGF-KEG
IKZN-HBGF193701.4115
GF193711.4116
GF193711.4117
GF193731.9561
GF193751.9562GF193101.4115
GF193111.4116
GF193111.4117
GF193131.9561
GF193151.9562EG (STI) Einsatzgebiete – Material
Applications – material ► 358

TICN



BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF Einsatzgebiete – Material
Applications – material ► 358

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

GF-KEG
IKZN-HA
TICNGF-KEG
IKZN-HB
TICNGF193706.4115
GF193716.4116
GF193716.4117
GF193736.9561
GF193756.9562GF193106.4115
GF193116.4116
GF193116.4117
GF193136.9561
GF193156.9562Weitere Ausführungen auf Anfrage
Further designs upon request

Anwendungshinweis: Es wird ein NC-Programm für schneckenförmiges Wendelnutfräsen benötigt, da sonst ein Absatz im gefrästen Gewinde entsteht
Application recommendation: You must have an NC programme for spiral-worm keyway milling, otherwise the finished thread will have a stepped profile

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

MF

EG (STI)

UNC

SELF-LOCK

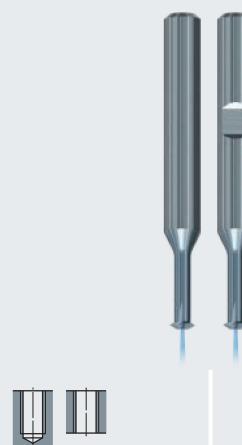
UNF

G (BSP)

Tr

Zubehör
Accessories

ZGF



ZGF-Z



Seite · Page

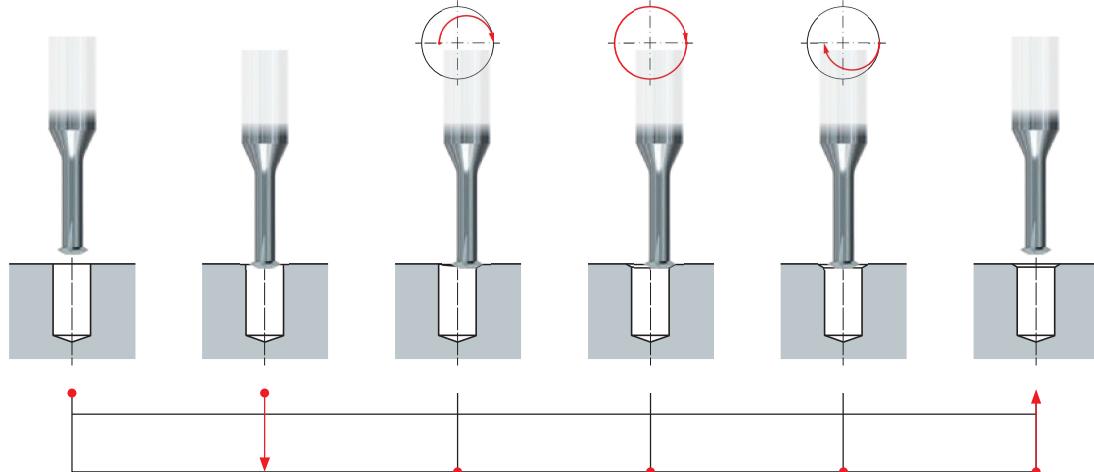
469

469

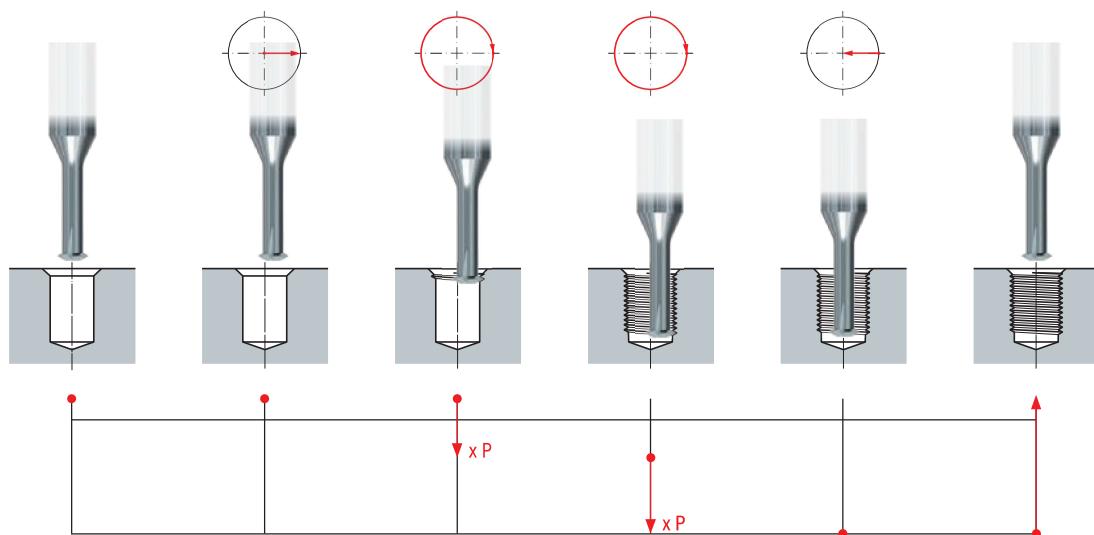
M	466 - 468	469
MF	466 - 468	469
EG (STI)	470 - 471	
UNC	470 - 471	
SELF-LOCK	470 - 471	
UNF	472	472
G (BSP)		

BGF
ZBGF
GSF
GF
GF-VZ
GF-KEG
ZGF
ZIRK-GF
Gigant
MoSys

Zirkulares Anfassen · Circular chamfering

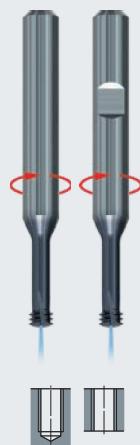


Gewindefräsyklus · Thread milling cycle





ZGF-S-CUT



ZGF-HCUT



Seite · Page

473

476

M

473

476

MF

474

477

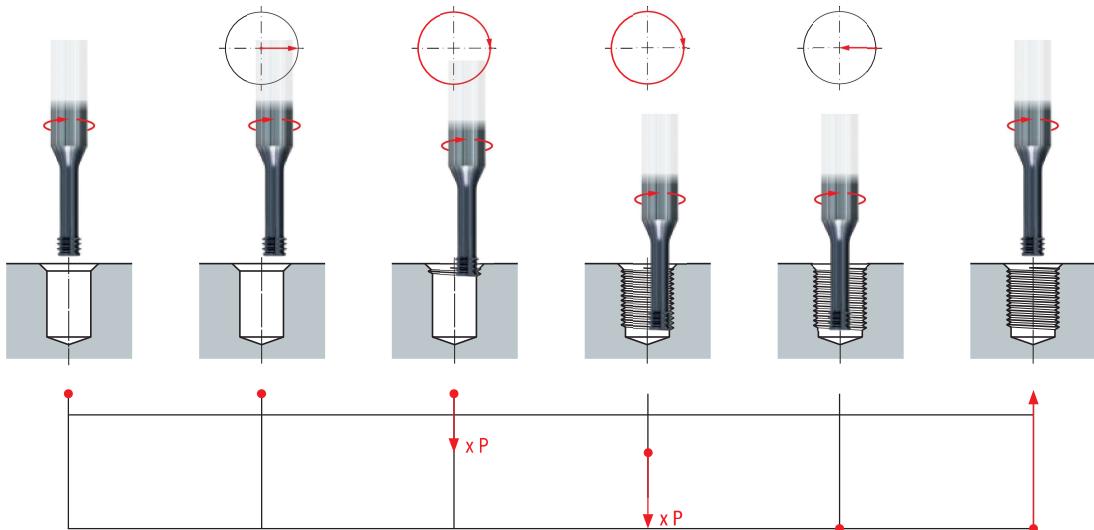
UNC

474 - 475

477 - 478

UNF**G (BSP)**

473	476	M
473	476	MF
474	477	UNC
474 - 475	477 - 478	UNF
		G (BSP)

Gewindefräsyklus · Thread milling cycle

Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

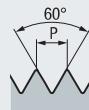
SELF-LOCK

Tr

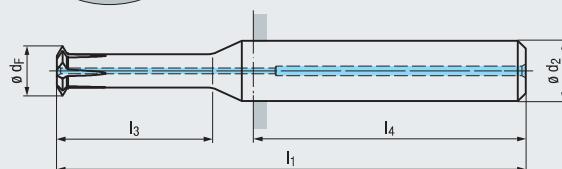
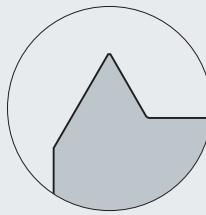
Zubehör
Accessories

Einsatzgebiete – Material

► 358

M, MF

DIN 13

Für Innengewinde
For internal threadsVHM
Carbide

RH + LH

Z3 - Z5 DIN 6535

HA
HBZum Anfasen geeignet
Suitable for chamfering

ZGF



P	1.1-5.1	K	1.1-4.2	N	1.1-1.5, 2.1-2.6
N	3.1-4.2	N	5.1-5.2	S	1.1-1.3

2 x d₁ZGF
2xd₁
HAZGF
2xd₁
IKZ-HAZGF
2xd₁
IKZ-HB

TICN



Einsatzgebiete – Material

► 358

Gewindetiefe
Thread depth

BGF

	Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	l ₁	l ₃	l ₄	Z (Flutes)
ZBGF	≥ M 1	0,1 - 0,25	0,7	3	39	3,3	28	3
	≥ M 1,4	0,12 - 0,35	1,04	3	39	3,7	28	3
GSF	≥ M 2	0,15 - 0,45	1,52	3	39	5	28	3
	≥ M 2,5	0,17 - 0,5	1,95	3	39	6,3	28	3
GF	≥ M 3,5	0,22 - 0,75	2,78	4	42	9,4	28	3
	≥ M 5	0,3 - 1	4	6	55	14,5	36	4
GF-VZ	≥ M 8	0,43 - 1,5	6,5	8	62	20,6	36	5
	≥ M12	0,6 - 2	9,9	10	78	32,8	40	5

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

P	1.1-5.1	M	1.1-4.1	K	1.1-4.2
N	1.1-5.3	S	1.1-2.6	H	1.1-1.2

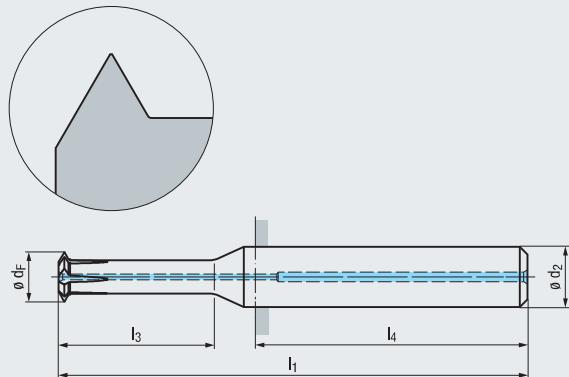
	Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	l ₁	l ₃	l ₄	Z (Flutes)
ZBGF	≥ M 1	0,1 - 0,25	0,7	3	39	3,3	28	3
	≥ M 1,4	0,12 - 0,35	1,04	3	39	3,7	28	3
GSF	≥ M 2	0,15 - 0,45	1,52	3	39	5	28	3
	≥ M 2,5	0,17 - 0,5	1,95	3	39	6,3	28	3
GF	≥ M 3,5	0,22 - 0,75	2,78	4	42	9,4	28	3
	≥ M 5	0,3 - 1	4	6	55	14,5	36	4
GF-VZ	≥ M 8	0,43 - 1,5	6,5	8	62	20,6	36	5
	≥ M12	0,6 - 2	9,9	10	78	32,8	40	5

ZGF 2xd ₁ HA TICN	ZGF 2xd ₁ IKZ-HA TICN	ZGF 2xd ₁ IKZ-HB TICN
GF253706.0010		
GF253706.0014		
GF253706.0020		
GF253706.0025		
GF253706.0035		
GF253706.0050		
	GF253706.0080	GF253106.0080
	GF253706.0112	GF253106.0112

Weitere Ausführungen auf Anfrage
Further designs upon request

M, MF

DIN 13

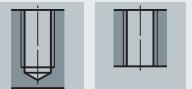
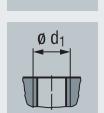
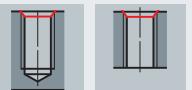
Für Innengewinde
For internal threadsEinsatzgebiete – Material
Applications – material

► 358

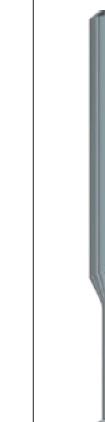
Gewindetiefe
Thread depthVHM
Carbide

RH + LH

Z3 - Z5

DIN 6535
HA
HBZum Anfassen geeignet
Suitable for chamfering

ZGF



P	1.1-5.1	K	1.1-4.2	N	1.1-1.5, 2.1-2.6
N	3.1-4.2	N	5.1-5.2	S	1.1-1.3

3 x d₁ZGF
3xd₁
HAZGF
3xd₁
IKZ-HAZGF
3xd₁
IKZ-HB

Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	l ₁	l ₃	l ₄	Z (Flutes)	ZGF 3xd ₁ HA	ZGF 3xd ₁ IKZ-HA	ZGF 3xd ₁ IKZ-HB
≥ M 1	0,1 - 0,25	0,7	3	39	3,3	28	3	GF273701.0010		
≥ M 1,6	0,14 - 0,35	1,18	3	39	5,2	28	3	GF273701.0016		
≥ M 2	0,15 - 0,4	1,52	3	39	6,4	28	3	GF273701.0020		
≥ M 2,5	0,17 - 0,45	1,96	3	39	8	28	3	GF273701.0025		
≥ M 3	0,18 - 0,5	2,4	3	41	9,5	28	3	GF273701.0030		
≥ M 4	0,26 - 0,7	3,15	4	44	12,7	28	3	GF273701.0040		
≥ M 5	0,28 - 0,8	4,04	6	56	15,8	36	4	GF273701.0050		
≥ M 6	0,35 - 1	4,8	6	59	19	36	4	GF273701.0060		
≥ M 8	0,43 - 1,25	6,5	8	65	25,3	36	5		GF273101.0080	GF273101.0080
≥ M10	0,51 - 1,5	8,2	10	77	31,5	40	5		GF273701.0100	GF273101.0100
≥ M12	0,6 - 1,75	9,9	10	82	37,8	40	5		GF273701.0112	GF273101.0112
≥ M14	0,68 - 2	11,6	12	94	44	45	5		GF273701.0114	GF273101.0114
≥ M16	0,68 - 2	13,6	14	100	50	45	5		GF273701.0116	GF273101.0116

TICN

Einsatzgebiete – Material
Applications – material

► 358

P	1.1-5.1	M	1.1-4.1	K	1.1-4.2
N	1.1-5.3	S	1.1-2.6	H	1.1-1.2

ZGF
3xd₁
TICNZGF
3xd₁
IKZ-HA
TICNZGF
3xd₁
IKZ-HB
TICN

Ø d ₁ mm	P mm	Ø d _F mm	Ø d ₂	l ₁	l ₃	l ₄	Z (Flutes)	ZGF 3xd ₁ TICN	ZGF 3xd ₁ IKZ-HA TICN	ZGF 3xd ₁ IKZ-HB TICN
≥ M 1	0,1 - 0,25	0,7	3	39	3,3	28	3	GF273706.0010		
≥ M 1,6	0,14 - 0,35	1,18	3	39	5,2	28	3	GF273706.0016		
≥ M 2	0,15 - 0,4	1,52	3	39	6,4	28	3	GF273706.0020		
≥ M 2,5	0,17 - 0,45	1,96	3	39	8	28	3	GF273706.0025		
≥ M 3	0,18 - 0,5	2,4	3	41	9,5	28	3	GF273706.0030		
≥ M 4	0,26 - 0,7	3,15	4	44	12,7	28	3	GF273706.0040		
≥ M 5	0,28 - 0,8	4,04	6	56	15,8	36	4	GF273706.0050		
≥ M 6	0,35 - 1	4,8	6	59	19	36	4	GF273706.0060		
≥ M 8	0,43 - 1,25	6,5	8	65	25,3	36	5		GF273106.0080	GF273106.0080
≥ M10	0,51 - 1,5	8,2	10	77	31,5	40	5		GF273706.0100	GF273106.0100
≥ M12	0,6 - 1,75	9,9	10	82	37,8	40	5		GF273706.0112	GF273106.0112
≥ M14	0,68 - 2	11,6	12	94	44	45	5		GF273706.0114	GF273106.0114
≥ M16	0,68 - 2	13,6	14	100	50	45	5		GF273706.0116	GF273106.0116

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_z

M

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

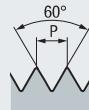
ZIRK-GF

Gigant

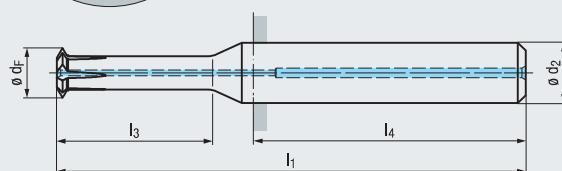
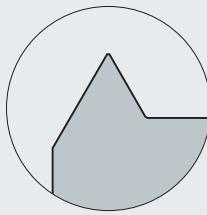
MoSys



M, MF



DIN 13

Für Innengewinde
For internal threads

Einsatzgebiete – Material

► 358

Applications – material

Gewindetiefe
Thread depth

VHM Carbide

TICN

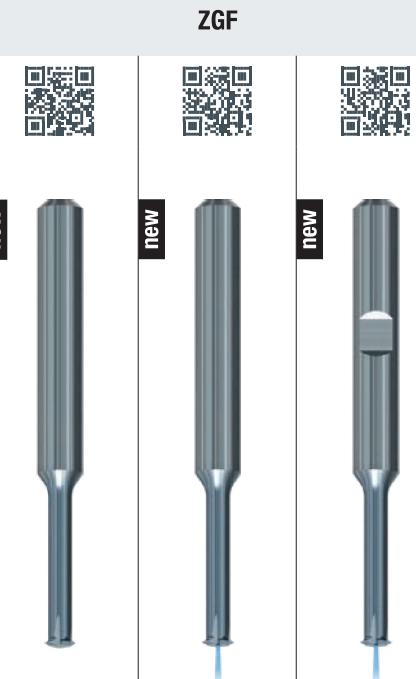
RH + LH

Z2 - Z5

DIN 6535

HA

HB

Ø d₁Ø d₂Zum Anfassen geeignet
Suitable for chamferingØ d₁Ø d₂

P 1.1-5.1

M 1.1-4.1

K 1.1-4.2

N 1.1-5.3

S 1.1-2.6

H 1.1-1.2

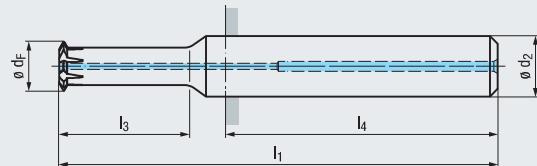
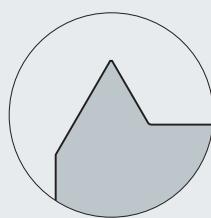
4 x d₁

ZGF 4x d ₁ HA TICN	ZGF 4x d ₁ IKZ-HA TICN	ZGF 4x d ₁ IKZ-HB TICN
GF2A3706.0016		
GF2A3706.0020		
GF2A3706.0025		
GF2A3706.0030		
GF2A3706.0040		
GF2A3706.0050		
GF2A3706.0060		
	GF2A3706.0080	GF2A3106.0080
	GF2A3706.0100	GF2A3106.0100
	GF2A3706.0112	GF2A3106.0112
	GF2A3706.0114	GF2A3106.0114
	GF2A3706.0116	GF2A3106.0116

Weitere Ausführungen auf Anfrage
Further designs upon requestGewindelehren
siehe Seite 541 - 594Thread gauges,
see page 541 - 594

M, MF

DIN 13

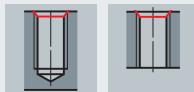
Für Innengewinde
For internal threadsEinsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

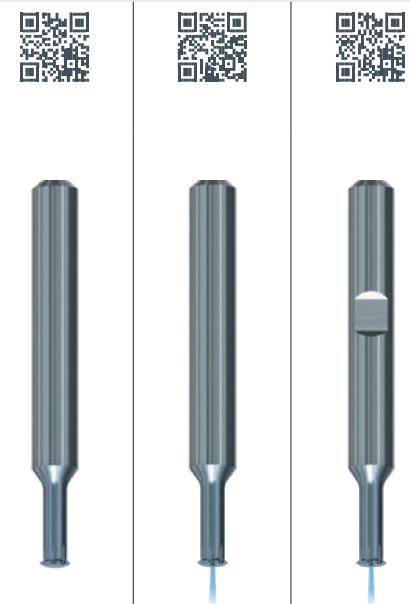
$\varnothing d_1$ mm	P mm	$\varnothing d_F$ mm	$\varnothing d_2$	l_1	l_3	l_4	Z (Flutes)	ZGF-Z 2xd ₁ HA TICN	ZGF-Z 2xd ₁ IKZ-HA TICN	ZGF-Z 2xd ₁ IKZ-HB TICN
≥ M 1,6	0,14 - 0,35	1,18	3	39	3,6	28	5	GF293746.0016		
≥ M 2	0,15 - 0,4	1,52	3	39	4,4	28	6	GF293746.0020		
≥ M 2,5	0,17 - 0,45	1,96	3	39	5,5	28	6	GF293746.0025		
≥ M 3	0,18 - 0,5	2,4	3	39	6,5	28	6	GF293746.0030		
≥ M 4	0,26 - 0,7	3,15	4	41	8,7	28	6	GF293746.0040		
≥ M 5	0,28 - 0,8	4,04	6	51	10,8	36	7	GF293746.0050		
≥ M 6	0,36 - 1	4,8	6	53	13	36	7	GF293746.0060		
≥ M 8	0,44 - 1,25	6,5	8	58	17,3	36	7		GF293746.0080	GF293146.0080
≥ M10	0,52 - 1,5	8,2	10	67	21,5	40	8		GF293746.0100	GF293146.0100
≥ M12	0,6 - 1,75	9,9	10	70	25,8	40	8		GF293746.0112	GF293146.0112

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

Zum Anfasen geeignet
Suitable for chamfering

VHM Carbide	TiCN
RH + LH	
Z5 - Z8	DIN 6535
	HA HB
	$\varnothing d_1$

ZGF-Z

2 x d₁

ZGF-Z 2xd ₁ HA TICN	ZGF-Z 2xd ₁ IKZ-HA TICN	ZGF-Z 2xd ₁ IKZ-HB TICN
GF293746.0016		
GF293746.0020		
GF293746.0025		
GF293746.0030		
GF293746.0040		
GF293746.0050		
GF293746.0060		
	GF293746.0080	GF293146.0080
	GF293746.0100	GF293146.0100
	GF293746.0112	GF293146.0112

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

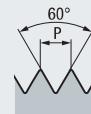
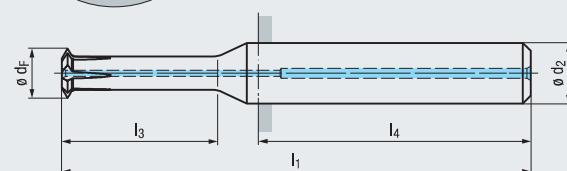
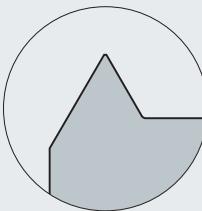
SELF-LOCK

Tr

Zubehör
Accessories

UNC, UNF

ASME B1.1

Für Innengewinde
For internal threadsVHM
Carbide

RH + LH

DIN 6535

HA

Zum Anfasen geeignet
Suitable for chamfering

ZGF



P	1.1-5.1	K	1.1-4.2	N	1.1-1.5, 2.1-2.6
N	3.1-4.2	N	5.1-5.2	S	1.1-1.3

2 x d₁ZGF
2xd₁
HA

TICN

BGF

	Ø d ₁ inch	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	l ₁	l ₃	l ₄	Z (Flutes)
≥ Nr. 4	80 - 40	2,06	3	39	6,7	28	3	GF253701.5003
≥ Nr. 6	80 - 40	2,55	3	39	7,4	28	3	GF253701.5005
≥ Nr. 8	80 - 32	3,21	4	42	8,8	28	3	GF253701.5006

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

Einsatzgebiete – Material
Applications – material

► 358

P	1.1-5.1	M	1.1-4.1	K	1.1-4.2
N	1.1-5.3	S	1.1-2.6	H	1.1-1.2

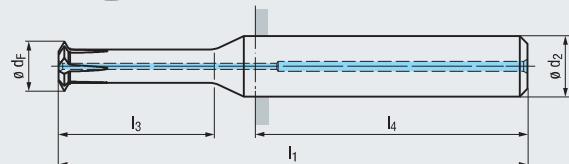
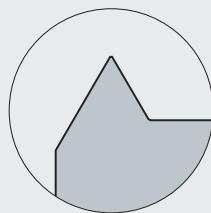
MoSys

	Ø d ₁ inch	P Gg/1" (tpi)	Ø d _F mm	Ø d ₂	l ₁	l ₃	l ₄	Z (Flutes)
≥ Nr. 4	80 - 40	2,06	3	39	6,7	28	3	GF253706.5003
≥ Nr. 6	80 - 40	2,55	3	39	7,4	28	3	GF253706.5005
≥ Nr. 8	80 - 32	3,21	4	42	8,8	28	3	GF253706.5006

Weitere Ausführungen auf Anfrage
Further designs upon request

UNC, UNF

ASME B1.1

Für Innengewinde
For internal threadsEinsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depthVHM
Carbide

TICN

RH + LH

Z3 - Z6

DIN 6535

HA

HB

 $\emptyset d_1$ Zum Anfasen geeignet
Suitable for chamfering

ZGF



P	1.1-5.1	M	1.1-4.1	K	1.1-4.2
N	1.1-5.3	S	1.1-2.6	H	1.1-1.2

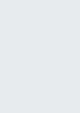
3 x d_1

ZGF 3xd ₁ HA TICN	ZGF 3xd ₁ IKZ-HA TICN	ZGF 3xd ₁ IKZ-HB TICN
---------------------------------------	---	---

$\emptyset d_1$ inch	P Gg/1" (tpi)	$\emptyset d_F$ mm	$\emptyset d_2$	l_1	l_3	l_4	Z (Flutes)	ZGF 3xd ₁ HA TICN	ZGF 3xd ₁ IKZ-HA TICN	ZGF 3xd ₁ IKZ-HB TICN
\geq Nr. 2	80-56	1,7	3	39	7	28	3	GF273706.5001		
\geq Nr. 4	80-40	2,15	3	40	9,2	28	3	GF273706.5003		
\geq Nr. 6	80-32	2,7	3	42	11,3	28	3	GF273706.5005		
\geq Nr. 8	80-32	3,21	4	44	13,3	28	3	GF273706.5006		
\geq Nr. 10	72-24	3,7	4	46	15,5	28	3	GF273706.5007		
\geq 1/4	56-20	4,95	6	59	20,3	36	4	GF273706.5009		
\geq 5/16	48-18	6,3	8	65	25,2	36	4		GF273706.5010	GF273106.5010
\geq 3/8	48-16	7,7	8	68	30,2	36	5		GF273706.5011	GF273106.5011
\geq 7/16	40-14	9	10	78	35,2	40	5		GF273706.5012	GF273106.5012
\geq 1/2	36-12	10,35	12	90	40,1	45	5		GF273706.5013	GF273106.5013

UNF

ASME B1.1



P	1.1-5.1	M	1.1-4.1	K	1.1-4.2
N	1.1-5.3	S	1.1-2.6	H	1.1-1.2

ZGF 3xd ₁ HA TICN	ZGF 3xd ₁ IKZ-HA TICN	ZGF 3xd ₁ IKZ-HB TICN
---------------------------------------	---	---

$\emptyset d_1$ inch	P Gg/1" (tpi)	$\emptyset d_F$ mm	$\emptyset d_2$	l_1	l_3	l_4	Z (Flutes)	ZGF 3xd ₁ HA TICN	ZGF 3xd ₁ IKZ-HA TICN	ZGF 3xd ₁ IKZ-HB TICN
\geq Nr. 2	80-64	1,76	3	39	7	28	4	GF273706.5035		
\geq Nr. 4	80-48	2,27	3	39	9,1	28	3	GF273706.5037		
\geq Nr. 6	80-40	2,79	3	42	11,2	28	4	GF273706.5039		
\geq Nr. 8	80-36	3,34	4	45	13,2	28	4	GF273706.5040		
\geq Nr. 10	80-32	3,9	4	46	15,3	28	4	GF273706.5041		
\geq 1/4	80-28	5,25	6	59	20	36	4	GF273706.5043		
\geq 5/16	64-24	6,6	8	65	24,9	36	5		GF273706.5044	GF273106.5044
\geq 3/8	64-24	8,2	10	74	29,6	40	5		GF273706.5045	GF273106.5045
\geq 7/16	60-20	9,55	10	77	34,6	40	5		GF273706.5046	GF273106.5046
\geq 1/2	60-20	11,1	12	90	39,4	45	6		GF273706.5047	GF273106.5047

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_v

M

MF
UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

GSF

GF

GF-VZ

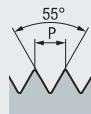
GF-KEG

ZGF

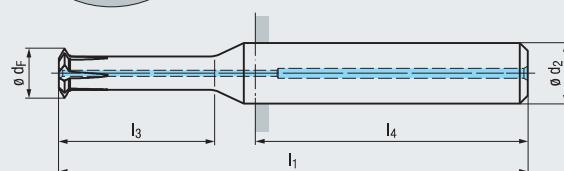
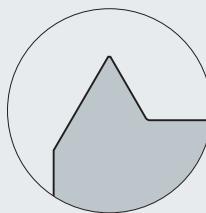
ZIRK-GF

Gigant

MoSys

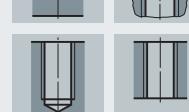
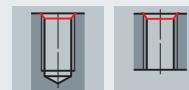
**G (BSP)**

DIN EN ISO 228

Für Innen- und Außengewinde
For internal and external threadsVHM
Carbide

TICN

RH + LH

Z5
DIN 6535
HA
HBZum Anfasen geeignet
Suitable for chamfering

ZGF



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

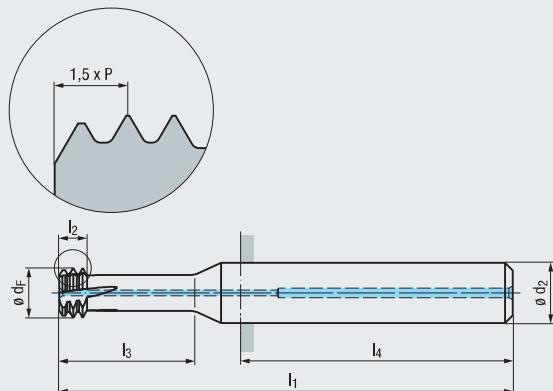
2 x d₁

ZGF 2xd ₁ IKZ-HA TICN	ZGF 2xd ₁ IKZ-HB TICN
GF253706.4035	GF253106.4035
GF253706.4036	GF253106.4036

Weitere Ausführungen auf Anfrage
Further designs upon requestGewinde-Tiefenlehrdorne
siehe Seite 588 - 591Thread depth plug gauges,
see page 588 - 591

M, MF

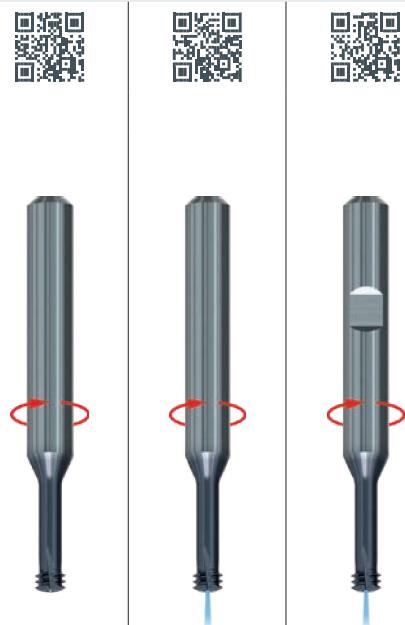
DIN 13

Für Innengewinde
For internal threadsEinsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN T46
RH + LH	LH-rot.
Z3 - Z6	DIN 6535 HA HB
L10	$\varnothing d_1$

ZGF-S-CUT

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

2 x d1

$\varnothing d_1$ mm	P mm	$\varnothing d_F$ mm	$\varnothing d_2$	l_1	l_2	l_3	l_4	Z (Flutes)	ZGF-S-CUT 2xd ₁ HA TIALN-T46	ZGF-S-CUT 2xd ₁ IKZ-HA TIALN-T46	ZGF-S-CUT 2xd ₁ IKZ-HB TIALN-T46
≥ M 1,6	0,35	1,18	3	39	1,1	3,7	28	3	GF26A729.0016		
≥ M 2	0,4	1,52	3	39	1,2	4,6	28	3	GF26A729.0020		
≥ M 2,5	0,45	1,95	3	39	1,4	5,7	28	3	GF26A729.0025		
≥ M 3	0,5	2,4	3	39	1,5	6,8	28	4	GF26A729.0030		
≥ M 4	0,7	3,15	4	42	2,1	9,1	28	4	GF26A729.0040		
≥ M 5	0,8	4,04	6	52	2,4	11,2	36	4		GF26A729.0050	GF26A129.0050
≥ M 6	1	4,8	6	55	3	13,5	36	4		GF26A729.0060	GF26A129.0060
≥ M 8	1,25	6,5	8	60	3,8	17,9	36	4		GF26A729.0080	GF26A129.0080
≥ M10	1,5	8,2	10	70	4,5	22,3	40	5		GF26A729.0100	GF26A129.0100
≥ M12	1,75	9,9	10	74	5,3	26,6	40	5		GF26A729.0112	GF26A129.0112
≥ M14	2	11,6	12	80	6	31	45	5		GF26A729.0114	GF26A129.0114
≥ M16	2	13,6	14	85	6	35	45	6		GF26A729.0116	GF26A129.0116
≥ M20	2,5	17	18	102	7,5	43,8	48	6		GF26A729.0120	GF26A129.0120
≥ M24	3	19,9	20	110	9	52,5	50	6		GF26A729.0124	GF26A129.0124

Gewindetiefe
Thread depth

$\varnothing d_1$ mm	P mm	$\varnothing d_F$ mm	$\varnothing d_2$	l_1	l_2	l_3	l_4	Z (Flutes)	ZGF-S-CUT 3xd ₁ HA TIALN-T46	ZGF-S-CUT 3xd ₁ IKZ-HA TIALN-T46	ZGF-S-CUT 3xd ₁ IKZ-HB TIALN-T46
≥ M 1,6	0,35	1,18	3	39	1,1	5,3	28	3	GF2BA729.0016		
≥ M 2	0,4	1,52	3	39	1,2	6,6	28	3	GF2BA729.0020		
≥ M 2,5	0,45	1,95	3	39	1,4	8,2	28	3	GF2BA729.0025		
≥ M 3	0,5	2,4	3	41	1,5	9,8	28	4	GF2BA729.0030		
≥ M 4	0,7	3,15	4	44	2,1	13,1	28	4	GF2BA729.0040		
≥ M 5	0,8	4,04	6	57	2,4	16,2	36	4		GF2BA729.0050	GF2BA129.0050
≥ M 6	1	4,8	6	60	3	19,5	36	4		GF2BA729.0060	GF2BA129.0060
≥ M 8	1,25	6,5	8	67	3,8	25,9	36	4		GF2BA729.0080	GF2BA129.0080
≥ M10	1,5	8,2	10	78	4,5	32,3	40	5		GF2BA729.0100	GF2BA129.0100
≥ M12	1,75	9,9	10	83	5,3	38,6	40	5		GF2BA729.0112	GF2BA129.0112
≥ M14	2	11,6	12	95	6	45	45	5		GF2BA729.0114	GF2BA129.0114
≥ M16	2	13,6	14	101	6	51	45	6		GF2BA729.0116	GF2BA129.0116
≥ M20	2,5	17	18	120	7,5	63,8	48	6		GF2BA729.0120	GF2BA129.0120
≥ M24	3	19,9	20	135	9	76,5	50	6		GF2BA729.0124	GF2BA129.0124

**3 x d1**

Product Finder

v_c / f_z

M

UNC UN, UNS

UNF UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

Weitere Ausführungen auf Anfrage
Further designs upon request

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

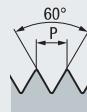
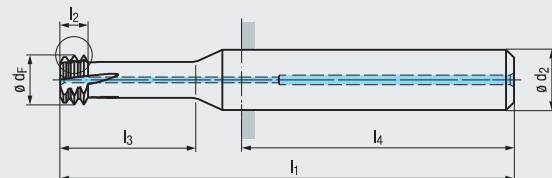
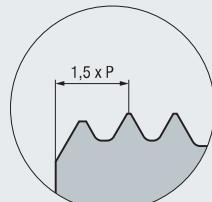
SELF-LOCK

Tr

Zubehör
Accessories

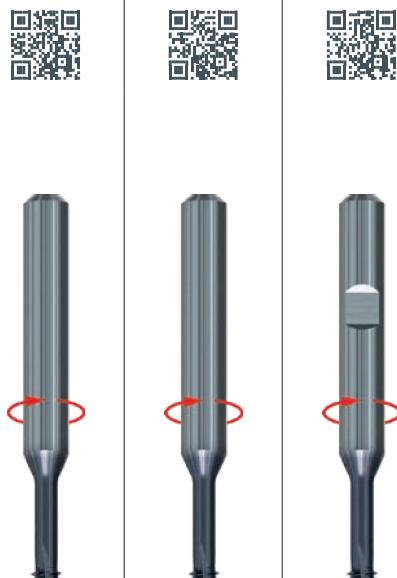
UNC, UNF

ASME B1.1

Für Innengewinde
For internal threads

VHM Carbide	TIALN T46
RH + LH	LH-rot.
Z3 - Z5	DIN 6535 HA HB
L10	ø d ₁
	ø d ₁

ZGF-S-CUT



P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

Einsatzgebiete – Material
Applications – material

» 358

Gewindetiefe
Thread depth2 x d₁

BGF	ø d ₁ inch	P Gg/1" (tpi)	ø d _F mm	ø d ₂	l ₁	l ₂	l ₃	l ₄	Z (Flutes)	ZGF-S-CUT 2xd ₁ HA TIALN-T46	ZGF-S-CUT 2xd ₁ IKZ-HA TIALN-T46	ZGF-S-CUT 2xd ₁ IKZ-HB TIALN-T46
ZBGF	≥ Nr. 2	56	1,7	3	39	1,4	5,1	28	3	GF26A729.5001		
	≥ Nr. 4	40	2,15	3	39	1,9	6,6	28	3	GF26A729.5003		
GSF	≥ Nr. 6	32	2,7	3	39	2,4	8,2	28	3	GF26A729.5005		
	≥ Nr. 8	32	3,35	4	40	2,4	9,5	28	3	GF26A729.5006		
GF	≥ Nr. 10	24	3,7	4	42	3,2	11,2	28	3	GF26A729.5007		
	≥ 1/4	20	4,95	6	55	3,8	14,6	36	3		GF26A729.5009	GF26A129.5009
GF-VZ	≥ 5/16	18	6,3	8	58	4,2	18	36	4		GF26A729.5010	GF26A129.5010
	≥ 3/8	16	7,7	8	62	4,8	21,4	36	4		GF26A729.5011	GF26A129.5011
GF-KEG	≥ 7/16	14	9	10	70	5,4	25	40	4		GF26A729.5012	GF26A129.5012
	≥ 1/2	13	10,4	12	80	5,9	28,3	45	4		GF26A729.5013	GF26A129.5013
ZGF	≥ 9/16	12	11,8	12	83	6,4	31,8	45	4		GF26A729.5014	GF26A129.5014
	≥ 5/8	11	13	14	88	6,9	35,2	45	5		GF26A729.5015	GF26A129.5015
ZIRK-GF	≥ 3/4	10	15,9	16	97	7,6	41,9	48	5		GF26A729.5016	GF26A129.5016

Gigant

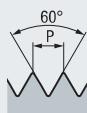


MoSys

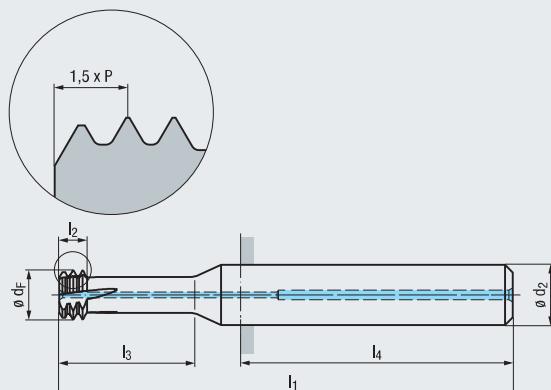
Gewindetiefe
Thread depth3 x d₁

BGF	ø d ₁ inch	P Gg/1" (tpi)	ø d _F mm	ø d ₂	l ₁	l ₂	l ₃	l ₄	Z (Flutes)	ZGF-S-CUT 3xd ₁ HA TIALN-T46	ZGF-S-CUT 3xd ₁ IKZ-HA TIALN-T46	ZGF-S-CUT 3xd ₁ IKZ-HB TIALN-T46
ZBGF	≥ Nr. 2	56	1,7	3	39	1,4	7,2	28	3	GF2BA729.5001		
	≥ Nr. 4	40	2,15	3	41	1,9	9,5	28	3	GF2BA729.5003		
GSF	≥ Nr. 6	32	2,7	3	43	2,4	11,7	28	3	GF2BA729.5005		
	≥ Nr. 8	32	3,35	4	45	2,4	13,7	28	3	GF2BA729.5006		
GF	≥ Nr. 10	24	3,7	4	48	3,2	16,1	28	3	GF2BA729.5007		
	≥ 1/4	20	4,95	6	61	3,8	21	36	3		GF2BA729.5009	GF2BA129.5009
GF-VZ	≥ 5/16	18	6,3	8	67	4,2	25,9	36	4		GF2BA729.5010	GF2BA129.5010
	≥ 3/8	16	7,7	8	71	4,8	31	36	4		GF2BA729.5011	GF2BA129.5011
GF-KEG	≥ 7/16	14	9	10	81	5,4	36,1	40	4		GF2BA729.5012	GF2BA129.5012
	≥ 1/2	13	10,4	12	92	5,9	41	45	4		GF2BA729.5013	GF2BA129.5013
ZGF	≥ 9/16	12	11,8	12	96	6,4	46	45	4		GF2BA729.5014	GF2BA129.5014
	≥ 5/8	11	13	14	102	6,9	51,1	45	5		GF2BA729.5015	GF2BA129.5015
ZIRK-GF	≥ 3/4	10	15,9	16	115	7,6	61	48	5		GF2BA729.5016	GF2BA129.5016

Weitere Ausführungen auf Anfrage
Further designs upon request

UNF

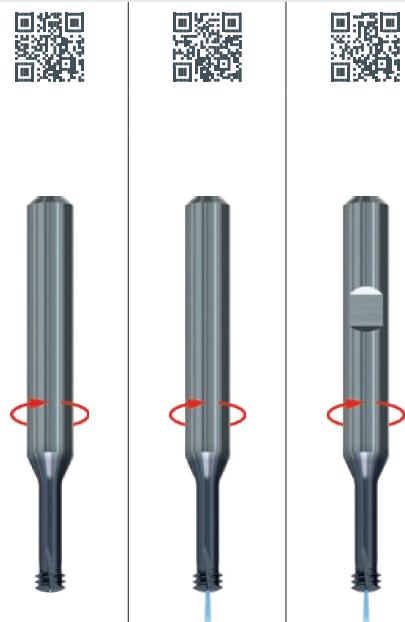
ASME B1.1

Für Innengewinde
For internal threadsEinsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN T46
RH + LH	LH-rot.
Z3 - Z9	DIN 6535 HA HB
L10	Ø d1 Ø d2

ZGF-S-CUT

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

2 x d1

Ø d1 inch	P Gg/1" (tpi)	Ø dF mm	Ø d2	l1	l2	l3	l4	Z (Flutes)	ZGF-S-CUT 2xd1 HA TIALN-T46	ZGF-S-CUT 2xd1 IKZ-HA TIALN-T46	ZGF-S-CUT 2xd1 IKZ-HB TIALN-T46
≥ Nr. 2	64	1,76	3	39	1,2	5	28	4	GF26A729.5035		
≥ Nr. 4	48	2,27	3	39	1,6	6,5	28	3	GF26A729.5037		
≥ Nr. 6	40	2,79	3	39	1,9	8	28	4	GF26A729.5039		
≥ Nr. 8	36	3,34	4	42	2,1	9,4	28	4	GF26A729.5040		
≥ Nr. 10	32	3,9	4	42	2,4	10,8	28	4	GF26A729.5041		
≥ 1/4	28	5,25	6	55	2,7	14,1	36	5		GF26A729.5043	GF26A129.5043
≥ 5/16	24	6,6	8	58	3,2	17,5	36	5		GF26A729.5044	GF26A129.5044
≥ 3/8	24	8,2	10	67	3,2	20,6	40	6		GF26A729.5045	GF26A129.5045
≥ 7/16	20	9,55	10	74	3,8	24,1	40	6		GF26A729.5046	GF26A129.5046
≥ 1/2	20	11,1	12	78	3,8	27,3	45	7		GF26A729.5047	GF26A129.5047
≥ 9/16	18	12,5	14	80	4,2	30,7	45	7		GF26A729.5048	GF26A129.5048
≥ 5/8	18	13,9	14	85	4,2	33,9	45	8		GF26A729.5049	GF26A129.5049
≥ 3/4	16	17	18	95	4,8	40,5	48	9		GF26A729.5050	GF26A129.5050

Gewindetiefe
Thread depth

Ø d1 inch	P Gg/1" (tpi)	Ø dF mm	Ø d2	l1	l2	l3	l4	Z (Flutes)	ZGF-S-CUT 3xd1 HA TIALN-T46	ZGF-S-CUT 3xd1 IKZ-HA TIALN-T46	ZGF-S-CUT 3xd1 IKZ-HB TIALN-T46
≥ Nr. 2	64	1,76	3	39	1,2	7,2	28	4	GF2BA729.5035		
≥ Nr. 4	48	2,27	3	39	1,6	9,3	28	3	GF2BA729.5037		
≥ Nr. 6	40	2,79	3	42	1,9	11,5	28	4	GF2BA729.5039		
≥ Nr. 8	36	3,34	4	45	2,1	13,6	28	4	GF2BA729.5040		
≥ Nr. 10	32	3,9	4	46	2,4	15,7	28	4	GF2BA729.5041		
≥ 1/4	28	5,25	6	60	2,7	20,4	36	5		GF2BA729.5043	GF2BA129.5043
≥ 5/16	24	6,6	8	66	3,2	25,4	36	5		GF2BA729.5044	GF2BA129.5044
≥ 3/8	24	8,2	10	75	3,2	30,2	40	6		GF2BA729.5045	GF2BA129.5045
≥ 7/16	20	9,55	10	79	3,8	35,2	40	6		GF2BA729.5046	GF2BA129.5046
≥ 1/2	20	11,1	12	90	3,8	40	45	7		GF2BA729.5047	GF2BA129.5047
≥ 9/16	18	12,5	14	95	4,2	45	45	7		GF2BA729.5048	GF2BA129.5048
≥ 5/8	18	13,9	14	100	4,2	49,7	45	8		GF2BA729.5049	GF2BA129.5049
≥ 3/4	16	17	18	115	4,8	59,5	48	9		GF2BA729.5050	GF2BA129.5050

**3 x d1**Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEFT

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

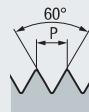
Pg

MJ
UNJC, UNJF

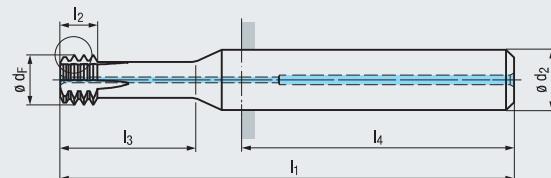
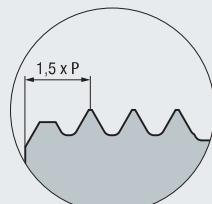
EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories**M, MF**

DIN 13

Für Innengewinde
For internal threadsEinsatzgebiete – Material
Applications – material

» 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN T46
RH + LH	LH-rot.
Z4 - Z6	DIN 6535
	HA HB
	Ø d ₁
	Ø d ₂
	Z (Flutes)

ZGF-HCUT

N 2.7-2.8

H 1.1-1.5

2 x d₁ZGF-HCUT
2xd₁
HA
TIALN-T46ZGF-HCUT
2xd₁
IKZ-HA
TIALN-T46ZGF-HCUT
2xd₁
IKZ-HB
TIALN-T46Weitere Ausführungen auf Anfrage
Further designs upon request

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

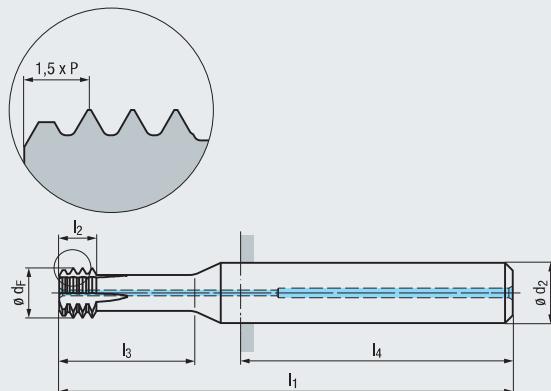
Gigant

MoSys



UNC, UNF

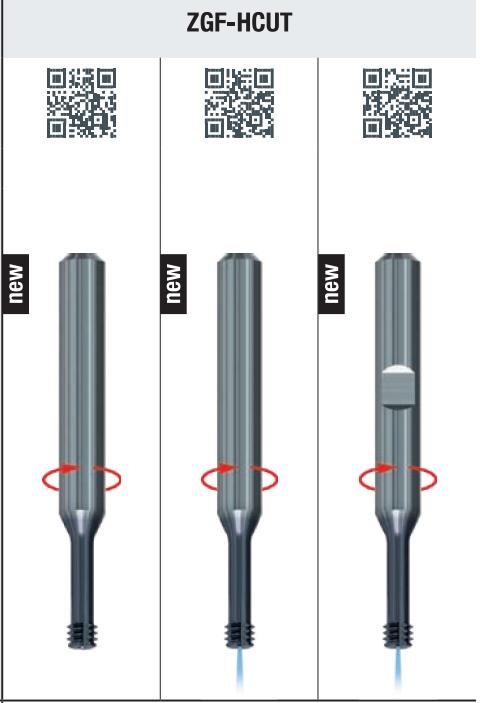
ASME B1.1

Für Innengewinde
For internal threadsEinsatzgebiete – Material
Applications – material

► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN T46
RH + LH	LH-rot.
Z3 - Z5	DIN 6535 HA HB
	Ø d1
	Ø d2



N 2.7-2.8

H 1.1-1.5

2 x d1

Ø d1 inch	P Gg/1" (tpi)	Ø dF mm	Ø d2	l1	l2	l3	l4	Z (Flutes)	ZGF-HCUT 2xd1 TIALN-T46	ZGF-HCUT 2xd1 IKZ-HA TIALN-T46	ZGF-HCUT 2xd1 IKZ-HB TIALN-T46
≥ Nr. 2	56	1,7	3	39	1,8	5,1	28	3	GF283729.5001		
≥ Nr. 4	40	2,15	3	39	2,5	6,6	28	3	GF283729.5003		
≥ Nr. 6	32	2,7	3	39	3,1	8,2	28	3	GF283729.5005		
≥ Nr. 8	32	3,21	4	42	3,1	9,5	28	3	GF283729.5006		
≥ Nr. 10	24	3,7	4	42	4,1	11,2	28	3	GF283729.5007		
≥ 1/4	20	4,95	6	55	5	14,6	36	3		GF283729.5009	GF283129.5009
≥ 5/16	18	6,3	8	58	5,5	18	36	4		GF283729.5010	GF283129.5010
≥ 3/8	16	7,65	8	62	6,2	21,4	36	4		GF283729.5011	GF283129.5011
≥ 7/16	14	9	10	70	7,1	25	40	4		GF283729.5012	GF283129.5012
≥ 1/2	13	10,4	12	80	7,6	28,3	45	4		GF283729.5013	GF283129.5013
≥ 9/16	12	11,8	12	82	8,2	31,8	45	4		GF283729.5014	GF283129.5014
≥ 5/8	11	13	14	87	9	35,2	45	5		GF283729.5015	GF283129.5015
≥ 3/4	10	15,9	16	95	9,9	41,9	48	5		GF283729.5016	GF283129.5016

Weitere Ausführungen auf Anfrage
Further designs upon requestProduct
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

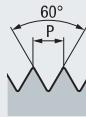
EG (STI)

SELF-LOCK

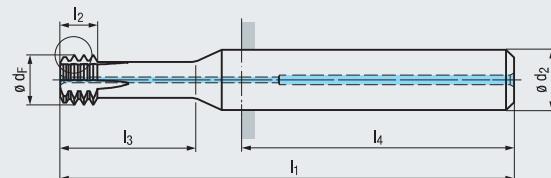
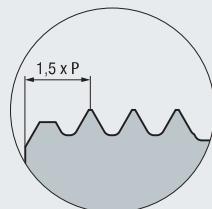
Tr

Zubehör
Accessories

UNF



ASME B1.1

Für Innengewinde
For internal threadsEinsatzgebiete – Material
Applications – material

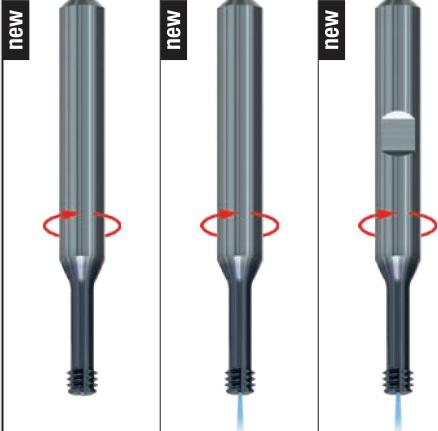
► 358

Gewindetiefe
Thread depth

VHM Carbide	TIALN T46
RH + LH	LH-rot.
Z3 - Z8	DIN 6535
	HA HB
	Ø d ₁
	Flutes



ZGF-HCUT



new

new

new

N 2.7-2.8

H 1.1-1.5

2 x d₁

ZGF-HCUT 2xd ₁ HA TIALN-T46	ZGF-HCUT 2xd ₁ IKZ-HA TIALN-T46	ZGF-HCUT 2xd ₁ IKZ-HB TIALN-T46
GF283729.5035		
GF283729.5037		
GF283729.5039		
GF283729.5040		
GF283729.5041		
	GF283729.5043	GF283129.5043
	GF283729.5044	GF283129.5044
	GF283729.5045	GF283129.5045
	GF283729.5046	GF283129.5046
	GF283729.5047	GF283129.5047
	GF283729.5048	GF283129.5048
	GF283729.5049	GF283129.5049
	GF283729.5050	GF283129.5050

Weitere Ausführungen auf Anfrage
Further designs upon request

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

MF

ZBGF

UN

GSF

G (BSP), BSW, BSF, W

GF

NPT

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



ZIRK-GF

Für eine Mehrzahn-Wechselplatte 15 mm
For one multi-tooth exchangeable insert 15 mm

ZIRK-GF

Für zwei Mehrzahn-Wechselplatten 15 mm
For two multi-tooth exchangeable inserts 15 mm

ZIRK-GF

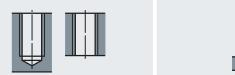
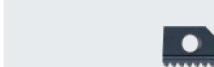
Für eine Mehrzahn-Wechselplatte 26 mm
For one multi-tooth exchangeable insert 26 mm

Seite · Page

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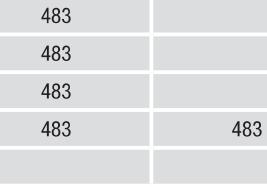
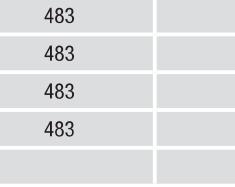
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484

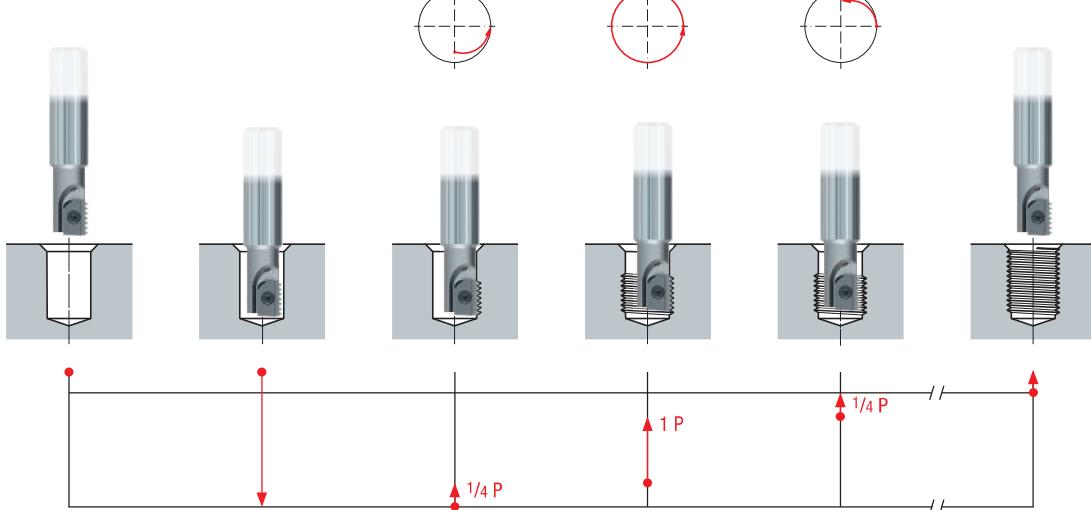


Seite · Page

M	483		483		485
MF	483		483		485
ZBGF	483		483		
UN	483		483		
GSF	483	483	483	483	485
GF					485
NPT					



Gewindefräsyklus · Thread milling cycle





ZIRK-GF
Für 3-Zahn-Wechselplatte
For 3-tooth exchangeable insert



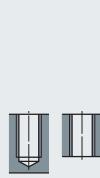
ZIRK-GF
Für Stirn-Wechselplatte
For exchangeable face insert



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486

488



Seite · Page

487

489

489

M

487

489

489

MF

487

489

489

UN

487

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G (BSP), BSW, BSF, W

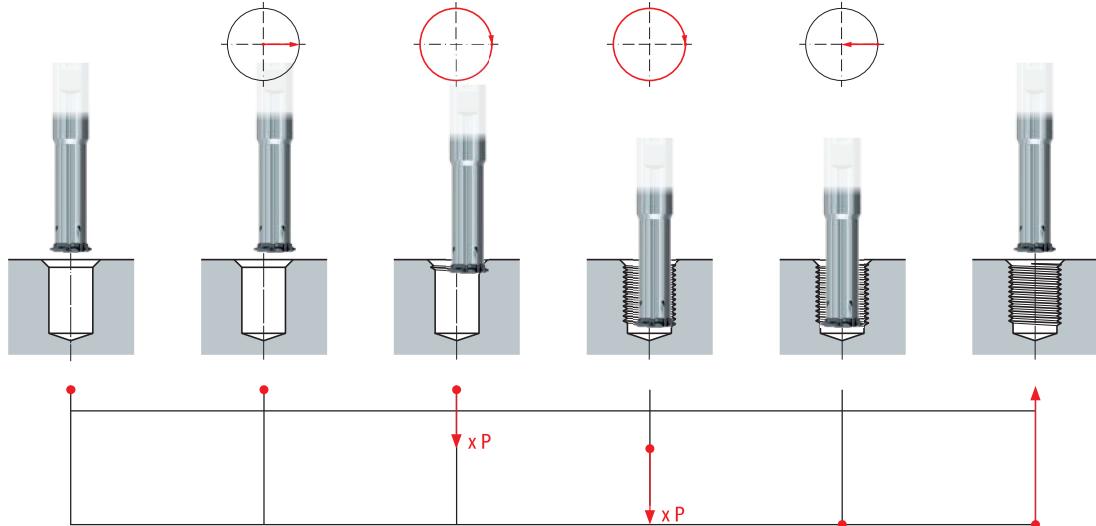
487

490

489

NPT

Gewindefräsyklus · Thread milling cycle



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

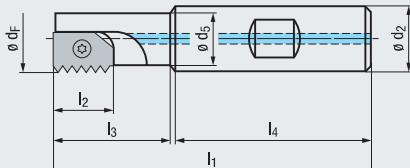
ZGF

ZIRK-GF

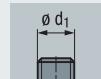
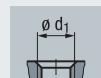
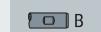
Gigant

MoSys

Für eine Mehrzahn-Wechselplatte 15 mm
For one multi-tooth exchangeable insert 15 mm



DIN 1835



ZIRK-GF



Kurze Ausführung · Short design

ZIRK-GF
MZP-15mm-Z1
IKZN

GZ301110

SELF-LOCK

Lange Ausführung · Long design

ZIRK-GF
MZP-15mm-Z1
IKZN
GZ301310²⁾

GZ301320

GZ301340

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

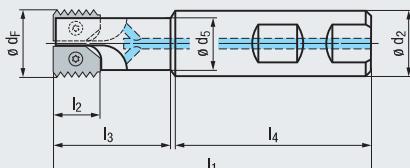
ZGF

ZIRK-GF

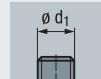
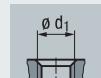
Gigant

MoSys

Für zwei Mehrzahn-Wechselplatten 15 mm
For two multi-tooth exchangeable inserts 15 mm



DIN 1835



ZIRK-GF



Kurze Ausführung · Short design

ZIRK-GF
MZP-15mm-Z2
IKZN

GZ301130

GZ301140

SELF-LOCK

Lange Ausführung · Long design

ZIRK-GF
MZP-15mm-Z2
IKZN
GZ301330²⁾

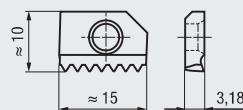
Lieferumfang: ohne Mehrzahn-Wechselplatten, mit Spannschrauben
Delivery: without multi-tooth exchangeable inserts, with clamping screws

 1) Verstärkte Ausführung
Reinforced design

 2) Aus Schwermetall, schwungungsgedämpft
Of vibration-absorbing heavy metal

Achtung: Beim Anziehen der Spannschraube ist das empfohlene Anzugsdrehmoment von 3,0 Nm zu beachten
Note: When tightening the clamping screw, the recommended tightening torque 3.0 Nm must be used

Mehrzahn-Wechselplatten 15 mm
Multi-tooth exchangeable inserts 15 mm



**HM
Carbide**

**TIALN
T4**

RH + LH

ZIRK-GF



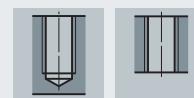
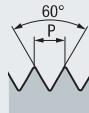
Einsatzgebiete – Material
Applications – material

► 358

P	1.1-5.1
M	1.1-4.1
K	1.1-4.2
N	1.1-5.3
S	1.1-2.6
H	1.1-1.2

M, MF

DIN 13



Für Innengewinde
For internal threads

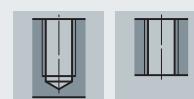


P
mm

0,5	GF603117.9506
0,75	GF603117.9509
1	GF603117.9512
1,25	GF603117.9513
1,5	GF603117.9514
1,75	GF603117.9515
2	GF603117.9516
2,5	GF603117.9517
3	GF603117.9518
3,5	GF603117.9519

UN

ASME B1.1



Für Innengewinde
For internal threads

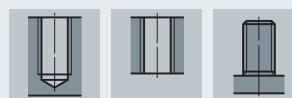
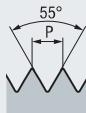


P
Gg/1" (tpi)

20	GF603117.9580
16	GF603117.9582
14	GF603117.9583
12	GF603117.9585

G (BSP), BSW, BSF, W

DIN EN ISO 228, BS 84



Für Innen- und Außengewinde
For internal and external threads



P
Gg/1" (tpi)

16	GF603117.9547
14	GF603117.9548
11	GF603117.9550

1) Verstärkte Ausführung
Reinforced design

Ersatzschraube M4 x 7; Torx T15
Spare screw M4 x 7; Torx T15

{ GZ309010 }



Schraubendreher Torx T15
Screw driver Torx T15

{ GZ309020 }



Drehmoment-Schraubendreher Torx T15
Torque screw driver Torx T15

{ GZ349043 }

Product
Finder

v_c / f_z

M

MF

UNC
UN, UNS

UNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

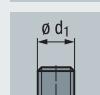
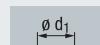
ZIRK-GF

Gigant

MoSys

DIN 1835

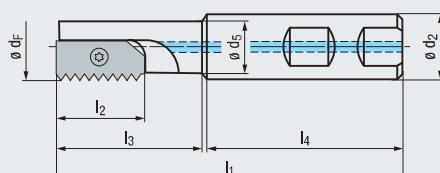
B



ZIRK-GF



Für eine Mehrzahn-Wechselplatte 26 mm
For one multi-tooth exchangeable insert 26 mm



Kurze Ausführung · Short design

P mm	P Gg/1" (tpi)	Ø d ₁ mm	Ø d _F mm	Ø d ₂ mm	Ø d ₅ mm	l ₁	l ₂	l ₃	l ₄	Z (Inserts)
1 - 4	14 - 11	≥ 33,3	25	25	20	107	26	45,5	56	1

ZIRK-GF
MZP-26mm-Z1
IKZN

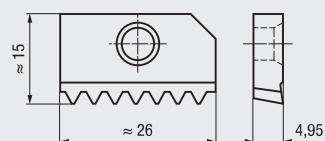
GZ303010

Lieferumfang: ohne Mehrzahn-Wechselplatten, mit Spannschrauben
Delivery: without multi-tooth exchangeable inserts, with clamping screws

Achtung: Beim Anziehen der Spannschraube ist das **empfohlene Anzugsdrehmoment von 3,0 Nm** zu beachten
Note: When tightening the clamping screw, the **recommended tightening torque 3.0 Nm** must be used



Mehrzahn-Wechselplatten 26 mm
Multi-tooth exchangeable inserts 26 mm



Einsatzgebiete – Material
Applications – material

► 358

**HM
Carbide**

**TIALN
T4**

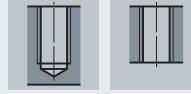
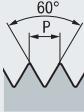
RH + LH

ZIRK-GF



P	1.1-5.1
M	1.1-4.1
K	1.1-4.2
N	1.1-5.3
S	1.1-2.6
H	1.1-1.2

M, MF
DIN 13



Für Innengewinde
For internal threads



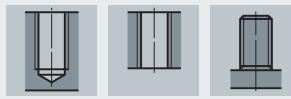
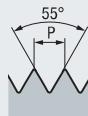
P
mm

MZP
26 mm
TIALN-T4

1	GF603147.9512
1,5	GF603147.9514
2	GF603147.9516
2,5	GF603147.9517
3	GF603147.9518
3,5	GF603147.9519
4	GF603147.9520

G (BSP), BSW, BSF, W

DIN EN ISO 228, BS 84



Für Innen- und Außengewinde
For internal and external threads

P
Gg/1" (tpi)

MZP
26 mm
TIALN-T4

14	GF603147.9548
11	GF603147.9550

Ersatzschraube M4 x 13; Torx T15
Spare screw M4 x 13; Torx T15

GZ309210



Schraubendreher Torx T15
Screw driver Torx T15

GZ309020



Drehmoment-Schraubendreher Torx T15
Torque screw driver Torx T15

GZ349043



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

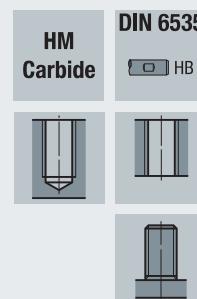
GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

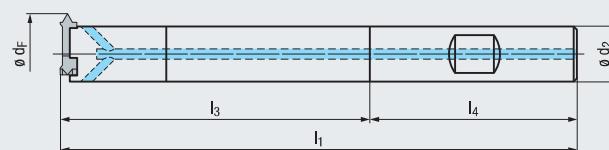


ZIRK-GF



Für 3-Zahn-Wechselplatte

For 3-tooth exchangeable insert

ZIRK-GF
3ZP
IKZN

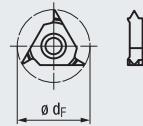
GZ311330

Lieferumfang: ohne 3-Zahn-Wechselplatte, mit Spannschraube
Delivery: without 3-tooth exchangeable insert, with clamping screw

Achtung: Beim Anziehen der Spannschraube ist das **empfohlene Anzugsdrehmoment von 3,0 Nm** zu beachten
Note: When tightening the clamping screw, the **recommended tightening torque 3.0 Nm** must be used



3-Zahn-Wechselplatten
3-tooth exchangeable inserts



Einsatzgebiete – Material
Applications – material ➔ 358



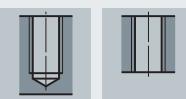
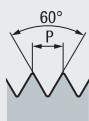
ZIRK-GF



P	1.1-5.1
M	1.1-4.1
K	1.1-4.2
N	1.1-5.3
S	1.1-2.6
H	1.1-1.2

M, MF, UN

DIN 13, ASME B1.1



Für Innengewinde
For internal threads



P mm	P Gg/1" (tpi)	Ø d ₁ mm	Ø d _F mm	Z (teeth)
1 - 3,5	24 - 7	≥ 24	17,5	3
3	-	≥ 24	17,5	3
2,5	-	M20	16	3

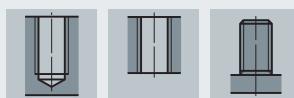
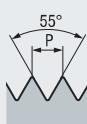
3ZP

TIALN-T4

GF613127.9512
GF613127.9518

G (BSP), BSW, BSF, W

DIN EN ISO 228, BS 84



Für Innen- und Außengewinde
For internal and external threads



P Gg/1" (tpi)	Ø d ₁ mm	Ø d _F mm	Z (teeth)
14	≥ 24	17,5	3
11	≥ 24	17,5	3

3ZP

TIALN-T4

GF613127.9548
GF613127.9550

Ersatzschraube M4 x 11; Torx T15
Spare screw M4 x 11; Torx T15 } **GZ319020**

Schraubendreher Torx T15
Screw driver Torx T15 } **GZ319060**

Drehmoment-Schraubendreher Torx T15
Torque screw driver Torx T15 } **GZ349043**

Product Finder

v_C / f_Z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

GF-VZ

GF-KEG

ZGF

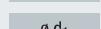
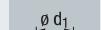
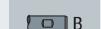
ZIRK-GF

Gigant

MoSys



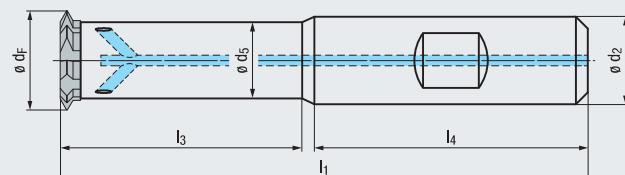
DIN 1835



ZIRK-GF



Für Stirn-Wechselplatte
For exchangeable face insert



Max. nutzbare Gewindetiefe l₃
Max. usable thread depth l₃

2 x d₁Empf. Anzugsdrehmoment
Rec. tightening torqueZIRK-GF
SWP
2xd₁
IKZN

[Nm]

GZ38100A

GZ38100B

GZ38100G

GZ38100C

GZ38100D

GZ38100E

GZ38100F

Empf. Anzugsdrehmoment
Rec. tightening torque2,5 x d₁ZIRK-GF
SWP
2,5xd₁
IKZN

[Nm]

GZ38110A

GZ38110B

GZ38110G

GZ38110C

GZ38110D

GZ38110E

GZ38110F

Max. nutzbare Gewindetiefe l₃
Max. usable thread depth l₃

Max. nutzbare Gewindetiefe l₃
Max. usable thread depth l₃

3 x d₁Empf. Anzugsdrehmoment
Rec. tightening torqueZIRK-GF
SWP
3xd₁
IKZN

[Nm]

GZ38120A

GZ38120B

GZ38120G

GZ38120C

GZ38120D

GZ38120E

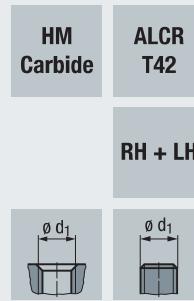
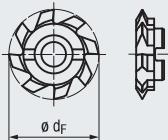
GZ38120F

Lieferumfang: ohne Stirn-Wechselplatte, mit Spannschraube
Delivery: without exchangeable face insert, with clamping screw

Achtung: Beim Anziehen der Spannschraube ist das **empfohlene Anzugsdrehmoment** zu beachten
Note: When tightening the clamping screw, the **recommended tightening torque** must be used



Stirn-Wechselplatten
Exchangeable face inserts



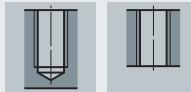
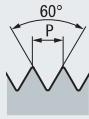
P	1.1-5.1
M	1.1-4.1
K	1.1-4.2
N	1.1-5.3
S	1.1-2.6

Einsatzgebiete – Material
Applications – material

► 358

M, MF, UN

DIN 13, ASME B1.1



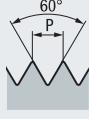
Für Innengewinde
For internal threads



Größe Size	P mm	P Gg/1" (tpi)	Ø d ₁ mm	Ø d _F mm	Z (teeth)	SWP ALCR-T42
A	1 - 1,75	24 - 13	≥ 12	9,9	6	GF65310A.9512
	1,75 - 2	14 - 12	≥ 14	9,9	6	GF65310A.0114
B	1 - 2	24 - 12	≥ 14	11,6	7	GF65320A.9512
	2 - 2,5	12 - 10	≥ 16	11,9	7	GF65320A.0118
G	1 - 2	24 - 12	≥ 16	13,6	8	GF65370A.9512
	2 - 2,5	12 - 10	≥ 18	13,9	8	GF65370A.0118
C	1,5 - 2,5	16 - 10	≥ 20	15,9	8	GF65330A.9514
	2,5 - 3	10 - 8	≥ 24	15,9	8	GF65330A.0124
D	1,5 - 3	16 - 8	≥ 24	19,9	8	GF65340A.9514
	3 - 3,5	8 - 7	≥ 30	19,9	8	GF65340A.0130
E	2 - 3,5	12 - 7	≥ 30	24,9	9	GF65350A.9516
	3,5 - 4	7 - 6	≥ 36	24,9	9	GF65350A.0136
F	3 - 4	8 - 6	≥ 36	29,9	10	GF65360A.9518

M, MF, UN

DIN 13, ASME B1.1



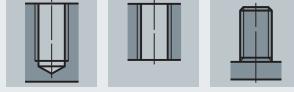
Für Außengewinde
For external threads



Größe Size	P mm	P Gg/1" (tpi)	Ø d ₁ mm	Ø d _F mm	Z (teeth)	SWP-Extern ALCR-T42
C	1	24	≥ 6	15,9	8	GF65130A.9512
	1,25	20	≥ 8	15,9	8	GF65130A.9513
	1,5	18 - 16	≥ 10	15,9	8	GF65130A.9514
	1,75	14	≥ 12	15,9	8	GF65130A.9515
	2	12	≥ 14	15,9	8	GF65130A.9516
	2,5	11 - 10	≥ 18	15,9	8	GF65130A.9517

G (BSP), BSW, BSF, W

DIN EN ISO 228, BS 84



Für Innen- und Außengewinde
For internal and external threads



Größe Size	P Gg/1" (tpi)	Gewinde Thread	Ø d ₁ mm	Ø d _F mm	Z (teeth)	SWP ALCR-T42
A	19 - 32	G 1/4	≥ 12	9,9	6	GF65310A.9545
B	16 - 26	G 3/8	≥ 14	11,9	7	GF65320A.9545
G	16 - 26	G 3/8	≥ 16	13,9	8	GF65370A.9545
C	14 - 20	G 1/2, G 5/8	≥ 20	15,9	8	GF65330A.9548
D	10 - 14	≥ G 3/4	≥ 24	19,9	8	GF65340A.9550
E	8 - 14	≥ G 7/8	≥ 30	24,9	9	GF65350A.9550
F	7 - 11	≥ G 1 1/8	≥ 36	29,9	10	GF65360A.9550

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

ZBGF

GSF

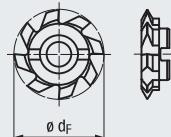
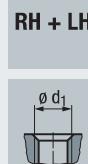
GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Stirn-Wechselplatten
Exchangeable face insertsHM
CarbideALCR
T42

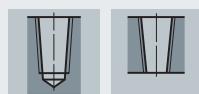
ZIRK-GF



P	1.1-5.1
M	1.1-4.1
K	1.1-4.2
N	1.1-5.3
S	1.1-2.6

Einsatzgebiete – Material
Applications – material ➤ 358

ANSI/ASME B1.20.1

Für kegeliges Innengewinde
For internal tapered threadsSWP
ALCR-T42

Zubehör Accessories	Größe Size	P Gg/1" (tpi)	Gewinde Thread	Ø d ₁ mm	Ø d _F mm	Z (teeth)	SWP ALCR-T42
	A	18	1/4, 3/8	≥ 12	9,9	5	GF65310A,9677
	C	14	1/2, 3/4	≥ 20	15,9	5	GF65330A,9678
	E	11 1/2	1" - 2"	≥ 30	24,9	6	GF65350A,9679
BGF	F	8	2 1/2 - 8"	≥ 36	29,9	9	GF65360A,9680

ZBGF

GSF

GF
Ersatz-Spannschrauben
Spare clamping screws

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

Empf. Anzugsdrehmoment
Rec. tightening torque
[Nm]

MoSys

	A	M2,5 x 8,5; Torx T7	0,9	GZ349011
	B	M3 x 11; Torx T9	1,4	GZ349012
	G	M3 x 11; Torx T9	1,4	GZ349012
	C	M4 x 13; Torx T15	3,0	GZ349013
	D	M5 x 15; Torx T20	5,0	GZ349014
	E	M5 x 15; Torx T20	5,0	GZ349014
	F	M5 x 15; Torx T20	5,0	GZ349014

Achtung: Beim Anziehen der Spannschraube ist das empfohlene Anzugsdrehmoment zu beachten
Note: When tightening the clamping screw, the recommended tightening torque must be used

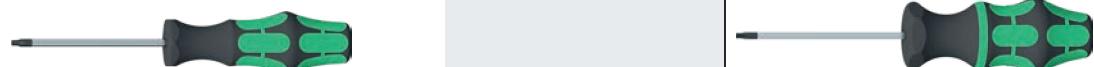
Schraubendreher Screw driver	
Größe Size	



A	Torx T7	GZ349021
B	Torx T9	GZ349022
G	Torx T9	GZ349022
C	Torx T15	GZ349023
D	Torx T20	GZ349024
E	Torx T20	GZ349024
F	Torx T20	GZ349024

Drehmoment-Schraubendreher Torque screw driver	
Größe Size	

A	Torx T7	GZ349041
B	Torx T9	GZ349042
G	Torx T9	GZ349042
C	Torx T15	GZ349043
D	Torx T20	GZ349044
E	Torx T20	GZ349044
F	Torx T20	GZ349044





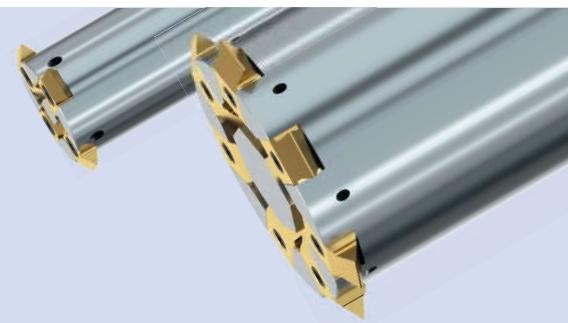
Gigant-ic

Vorteile:

- Flexibilität

Advantages:

- Flexibility



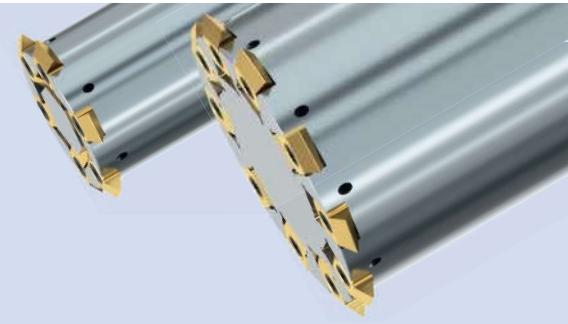
Gigant sprinter

Vorteile:

- Schnelligkeit

Advantages:

- Fast operation



Gigant soft run

Hartmetall-Träger

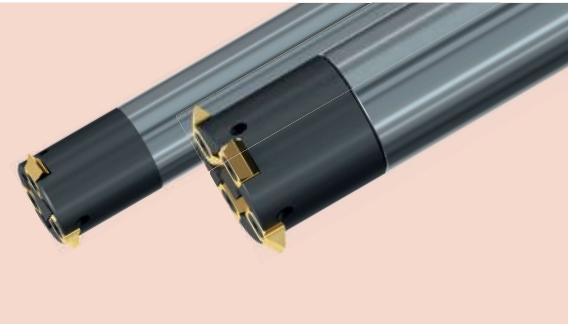
Carbide tool body

Vorteile:

- Laufruhe
- Stabilität

Advantages:

- Smooth operation
- Stability



Gigant soft run sprinter

Hartmetall-Träger

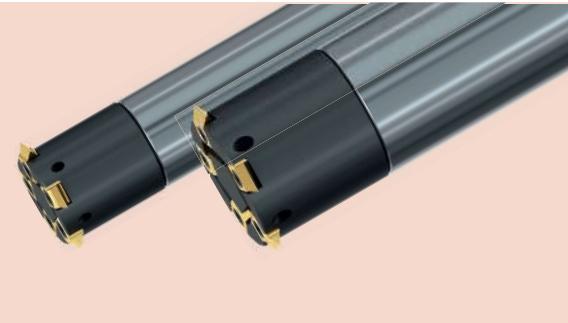
Carbide tool body

Vorteile:

- Schnelligkeit
- Laufruhe
- Stabilität

Advantages:

- Fast operation
- Smooth operation
- Stability



Gigant modular

Vorteile:

- Modularer Aufbau

Advantages:

- Modular construction



Gigant modular sprinter

Vorteile:

- Flexible Längen
- Kürzere Bearbeitungszeit

Advantages:

- Flexible lengths
- Reduced machining times



**Product
Finder**v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

**Zubehör
Accessories**

BGF

ZBGF

GSF

GF

GF-VZ

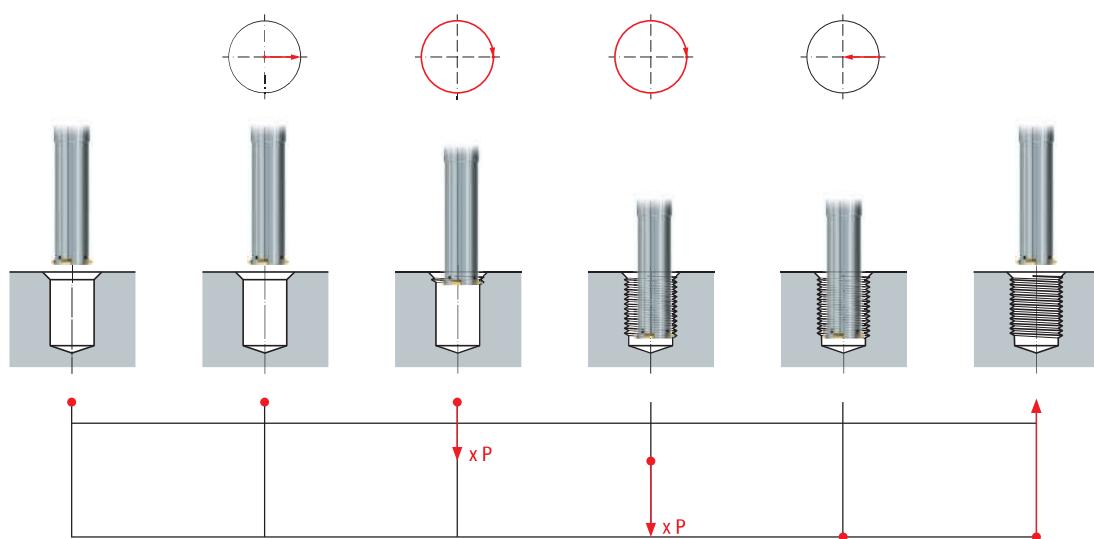
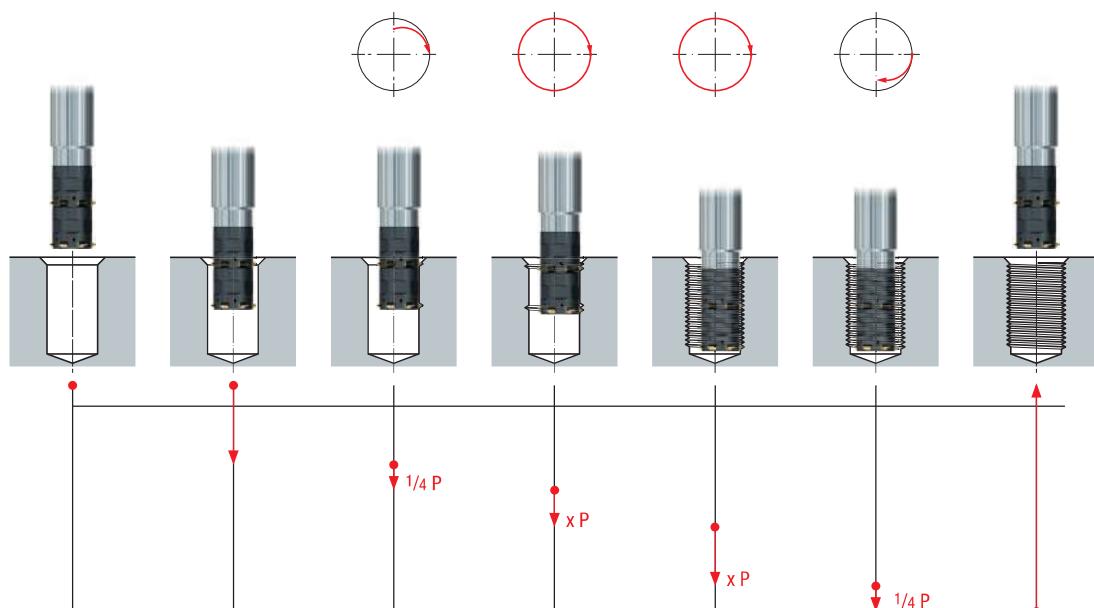
GF-KEG

ZGF

ZIRK-GF

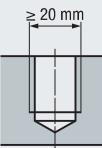
Gigant

MoSys

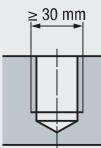
**Gewindefräsyklus · Thread milling cycle****Gewindefräsyklus · Thread milling cycle****Gigant modular sprinter**



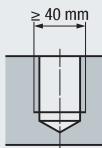
Gigant

Größe · Size
10

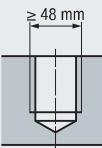
494

Größe · Size
11

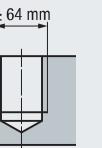
496

Größe · Size
12

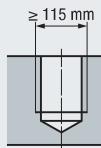
498

Größe · Size
13

500

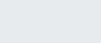
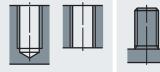
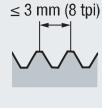
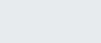
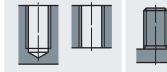
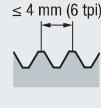
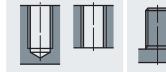
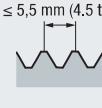
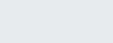
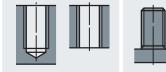
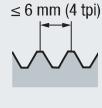
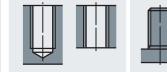
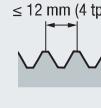
Größe · Size
14

502

Größe · Size
15

504

Seite · Page

Größe · Size
10Größe · Size
11Größe · Size
12Größe · Size
13Größe · Size
15

Seite · Page

495	495	497	497	499	499	501	501	503	503	505		M
495	495	497	497	499	499	501	501	503	503	505		MF
495		497		499		501		503		505		UN
495	495	497	497	499	499	501	501	503	503			G (BSP), BSW, BSF, W
		497	497	499	499							NPT
495	495	497	497	499	499	501	501	503	503	505	505	Tr

Seite · Page

Fräsringe zum Entfernen des unvollständigen Ganges
Milling rings for removal of the incomplete thread

506

Aufnahmen und Verlängerungen für Gigant modular und Gigant modular sprinter
Holders and extensions for Gigant modular and Gigant modular sprinter

508 - 509



10

Für Abmessungen ab Gewindedurchmesser 20 mm
For thread sizes from thread diameter 20 mm

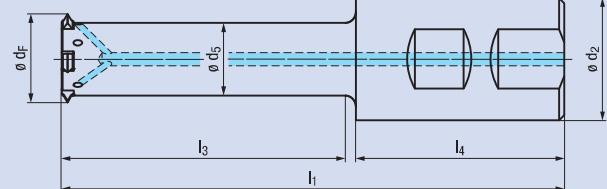


Gigant-ic

Gigant sprinter

DIN 1835	$\emptyset d_1$	Z2 - Z5	QR	QR
B				
$\emptyset d_1$ mm	$\emptyset d_F$ mm	$\emptyset d_2$	$\emptyset d_5$	l_1
≥ 20	17	12	12	87
				40
				45
				48
				3
≥ 24	20,5	16	15,9	100
				50
				48
				3
≥ 24	20,5	16	15,9	115
				65
				48
				3
≥ 30	23,85	32	19	145
				80
				60
				5

Gigant-ic	Gigant sprinter
Gr.10-IKZN	Gr.10-IKZN
GZ341000	
GZ341040	
GZ341050	
	GZ341200

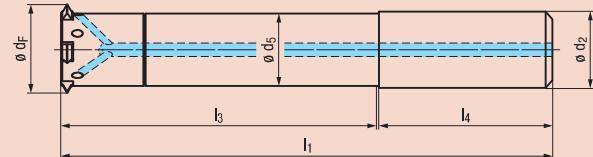


Gigant soft run

Gigant soft run sprinter

DIN 6535	$\emptyset d_1$	Z2 - Z8	QR	QR
HA				
$\emptyset d_1$ mm	$\emptyset d_F$ mm	$\emptyset d_2$	$\emptyset d_5$	l_1
≥ 20	17	12	12	97
				50
				45
				2
≥ 24	20,5	16	15,9	115
				65
				48
				3
≥ 30	23,85	20	19	142
				90
				50
				5
≥ 36	30	25	25	153
				95
				56
				7
≥ 40	32,85	32	27,7	178
				115
				60
				8

Gigant soft run	Gigant soft run sprinter
Gr.10-IKZN	Gr.10-IKZN
GZ34A010	
GZ34A000	
	GZ34C000
	GZ34C010
	GZ34C020

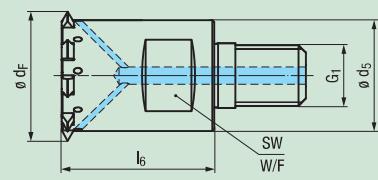


Mit variabler Länge auf Anfrage
With variable length upon request

Gigant modular

Nur einzeln einsetzbar
Can only be used individually

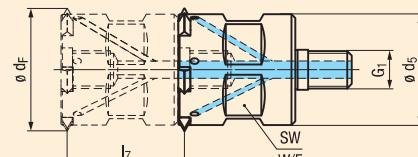
M	$\emptyset d_1$	Z9	QR
$\emptyset d_1$ mm	$\emptyset d_F$ mm	$\emptyset d_5$	l_6
≥ 40	34,25	28,8	38
			M16
			22
			9



Gigant modular sprinter

Je nach Anwendung empfehlen wir, max. 3 Gigant modular sprinter miteinander zu kombinieren

Depending on the application, we recommend to combine up to a maximum of 3 Gigant modular sprinter



Die Innensechskant-Schraube zum sturmseitigen Verschließen der Kühlmittel-Bohrung ist im Lieferumfang enthalten
The hexagon socket screw to close the coolant hole on the face side is included with the delivery

Das Maß l_7 muss ein Vielfaches der Steigung P des herzustellenden Gewindes sein
The measurement l_7 must be a multiple of the pitch P of the thread to be produced

Lieferumfang: ohne 2-Zahn-Wendeplatten, mit Spannschrauben
Delivery: without 2-tooth indexable inserts, with clamping screws

Achtung: Beim Anziehen der Spannschraube ist das **empfohlene Anzugsdrehmoment von 0,9 Nm** zu beachten
Note: When tightening the clamping screw, the **recommended tightening torque 0.9 Nm** must be used



Fräsringe zum Entfernen des unvollständigen Ganges siehe Seite 506
Milling rings for removal of the incomplete thread, see page 506



Aufnahmen und Verlängerungen für Gigant modular und Gigant modular sprinter siehe Seite 508 - 509
Holders and extensions for Gigant modular and Gigant modular sprinter, see pages 508 - 509

10

2-Zahn-Wendeplatten für Steigungsbereich bis 3 mm (8 Gg/1")
2-tooth indexable inserts for a pitch range up to 3 mm (8 tpi)



P mm	P Gg/1" (tpi)	b	h	HM Carbide	RH + LH	Beschichtung · Coating	TIN	TIALN-T4
Einsatzgebiete – Material Applications – material	► 358			P 1.1-5.1 N 1.1-5.3	M 1.1-4.1 S 1.1-2.6	K 1.1-4.2 H 1.1-1.2		
				WP-Z2 Gr.10 TIN	WP-Z2 Gr.10 TIALN-T4			

M, MF, UN DIN 13, ASME B1.1					
1 - 2,5	24 - 10	5	7	GF643005.9512	GF643007.9512
1,5 - 3	16 - 8	5	7	GF643005.9514	GF643007.9514

M, MF DIN 13					
1,5	5	7		GF641007.9514	
2	5	7		GF641007.9516	

G (BSP), BSW, BSF, W DIN EN ISO 228, BS 84					
(1,814)	14 (9 - 28)	5	7	GF643005.9548	GF643007.9548

Tr DIN 103					
1,5	5	7	$\varnothing d_1 \text{ min.} = d_F + 11$	GF643007.9597	
2	5	7	$\varnothing d_1 \text{ min.} = d_F + 14$	GF643007.9599	

Zubehör Accessories

Andere Ausführungen auf Anfrage, z.B.
Other designs upon request, e.g.

ACME-Gewinde
ACME threadRundgewinde
Round threadSärgengewinde
Buttress thread

Einstechplatten in verschiedenen Ausführungen
Infeed inserts in various designs

	Ersatzschraube M2,5 x 8,5; Torx T7 Spare screw M2.5 x 8.5; Torx T7 Schraubendreher Torx T7 Screw driver Torx T7 Drehmoment-Schraubendreher Torx T7 Torque screw driver Torx T7 Verschluss-Schraube M8x1 x 10; SW4 Screw plug M8x1 x 10; SW4	GZ349010 GZ349020 GZ349040 GZ359310
--	--	--

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEFC

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



11

Für Abmessungen ab Gewindedurchmesser 30 mm
For thread sizes from thread diameter 30 mm



Gigant-ic

Gigant sprinter

DIN 1835	$\emptyset d_1$	$\emptyset d_F$	$\emptyset d_2$	$\emptyset d_5$	l_1	l_3	l_4	Z (Inserts)
NPT NPTF Rc, W	≥ 30	23,85	32	19	122	60	60	3
BSW, BSF	≥ 30	23,85	25	19	138	80	56	3
Pg	≥ 30	23,85	32	19	142	80	60	3
MJ UNJC, UNJF	≥ 34	28	32	23	153	90	60	5
EG (STI)	≥ 36	29,5	32	24,5	157	95	60	3
	≥ 40	32,85	32	27,7	159	95	60	5
	≥ 40	34	32	28,8	124	60	60	6
	≥ 48	40,25	32	35	144	80	60	8

Gigant soft run

Gigant soft run sprinter

DIN 6535	$\emptyset d_1$	$\emptyset d_F$	$\emptyset d_2$	$\emptyset d_5$	l_1	l_3	l_4	Z (Inserts)
Tr	HA							
Zubehör Accessories								
BGF	≥ 30	23,85	20	19	142	90	50	3
ZBGF	≥ 40	32,85	32	27,7	179	115	60	5

Gigant modular

Nur einzeln einsetzbar
Can only be used individually

M	$\emptyset d_1$	Z6						
GF								
GF-VZ								
GF-KEG								
ZGF	$\emptyset d_1$ mm	$\emptyset d_F$ mm	$\emptyset d_5$	l_6	G_1	SW (W/F)	Z (Inserts)	Gigant modular Gr.11-IKZN
ZIRK-GF	≥ 42	34,25	28,8	38	M16	22	6	GZ351001

Gigant

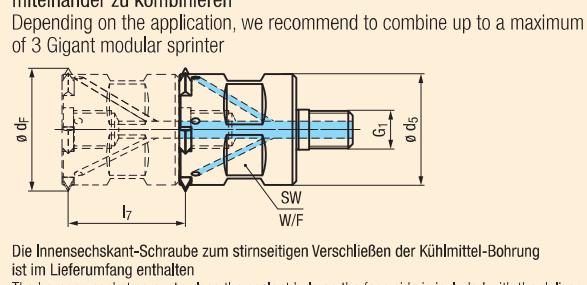
Gigant modular sprinter

Je nach Anwendung empfehlen wir, max. 3 Gigant modular sprinter miteinander zu kombinieren

Depending on the application, we recommend to combine up to a maximum of 3 Gigant modular sprinter

MF	$\emptyset d_1$	Z6						
$\emptyset d_1$ mm	$\emptyset d_F$ mm	$\emptyset d_5$	l_7	G_1	SW (W/F)	Z (Inserts)	Gigant modular sprinter Gr.11-IKZN	
≥ 42	34,25	29,15	24	M10 x 1	25	6	GZ353001	

Das Maß l_7 muss ein Vielfaches der Steigung P des herzustellenden Gewindes sein
The measurement l_7 must be a multiple of the pitch P of the thread to be produced



Lieferumfang: ohne 4-Zahn-Wendeplatten, mit Spannschrauben
Delivery: without 4-tooth indexable inserts, with clamping screws

Achtung: Beim Anziehen der Spannschraube ist das **empfohlene Anzugsdrehmoment von 0,9 Nm** zu beachten
Note: When tightening the clamping screw, the **recommended tightening torque 0.9 Nm** must be used



Fräsringe zum Entfernen des unvollständigen Ganges siehe Seite 506
Milling rings for removal of the incomplete thread, see page 506



Aufnahmen und Verlängerungen für Gigant modular und Gigant modular sprinter siehe Seite 508 - 509
Holders and extensions for Gigant modular and Gigant modular sprinter, see pages 508 - 509

11

4-Zahn-Wendeplatten für Steigungsbereich bis 4 mm (6 Gg/1")
4-tooth indexable inserts for a pitch range up to 4 mm (6 tpi)



Product Finder

v_c / f_v

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

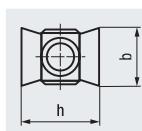
GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

HM
Carbide

RH + LH



Beschichtung · Coating

TIN

TIALN-T4

Einsatzgebiete – Material
Applications – material
► 358

P 1.1-5.1	M 1.1-4.1	K 1.1-4.2
N 1.1-5.3	S 1.1-2.6	H 1.1-1.2

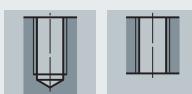
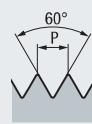
P
mmP
Gg/1" (tpi)

b

h

WP-Z4
Gr.11
TINWP-Z4
Gr.11
TIALN-T4**M, MF, UN**

DIN 13, ASME B1.1

**M, MF**

DIN 13



2,5

3

6,35

6,35

9,52

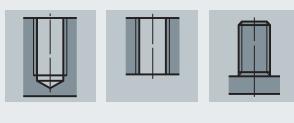
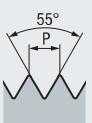
9,52

GF641107.9517

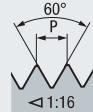
GF641107.9518

G (BSP), BSW, BSF, W

DIN EN ISO 228, BS 84

**NPT**

ANSI/ASME B1.20.1



(2,209)

11 (9 - 28)

6,35

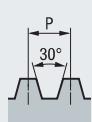
9,52

GF643105.9550

GF643107.9550

Tr

DIN 103



3

4

6,35

6,35

9,52

9,52

Ø d₁ min. = d_F + 23Ø d₁ min. = d_F + 32

GF643107.9601

GF643107.9603

Zubehör
Accessories

Andere Ausführungen auf Anfrage, z.B.
Other designs upon request, e.g.

ACME-Gewinde
ACME threadRundgewinde
Round threadSärgengewinde
Buttress threadEinstechplatten in verschiedenen Ausführungen
Infeed inserts in various designsErsatzschraube M2,5 x 8,5; Torx T7
Spare screw M2.5 x 8.5; Torx T7

GZ349011

Schraubendreher Torx T7
Screw driver Torx T7

GZ349021

Drehmoment-Schraubendreher Torx T7
Torque screw driver Torx T7

GZ349041

Verschluss-Schraube M10x1 x 12; SW5
Screw plug M10x1 x 12; SW5

GZ359311

12

4-Zahn-Wendeplatten für Steigungsbereich bis 5,5 mm (4,5 Gg/1")
4-tooth indexable inserts for a pitch range up to 5.5 mm (4.5 tpi)



	HM Carbide	RH + LH		
			TIN	TIALN-T4
Einsatzgebiete – Material Applications – material	► 358		P 1.1-5.1 N 1.1-5.3	M 1.1-4.1 S 1.1-2.6
P mm	P Gg/1" (tpi)	b	h	WP-Z4 Gr.12 TIN
1,5 - 2,5	16 - 10	8,5	13,5	WP-Z4 Gr.12 TIALN-T4
2,5 - 5,5	10 - 4,5	8,5	13,5	GF643205.9514 GF643205.9517

M, MF, UN DIN 13, ASME B1.1		 		
1,5 - 2,5	16 - 10	8,5	13,5	GF643205.9514
2,5 - 5,5	10 - 4,5	8,5	13,5	GF643205.9517

M, MF DIN 13				
3,5	8,5	13,5		GF641207.9519
4	8,5	13,5		GF641207.9520

G (BSP), BSW, BSF, W DIN EN ISO 228, BS 84		 		
(2,309)	11 (5 - 28)	8,5	13,5	GF643205.9550

NPT ANSI/ASME B1.20.1		 		
(3,175)	8	8,5	13,5	GF643207.9680

Tr DIN 103		 		
4	8,5	13,5	$\varnothing d_1 \text{ min.} = d_F + 32$	GF643207.9603
5	8,5	13,5	$\varnothing d_1 \text{ min.} = d_F + 41$	GF643207.9604

Zubehör Accessories

Andere Ausführungen auf Anfrage, z.B.
Other designs upon request, e.g.

ACME-Gewinde
ACME threadRundgewinde
Round threadSägengewinde
Buttress thread

Einstechplatten in verschiedenen Ausführungen
Infeed inserts in various designs

	Ersatzschraube M3 x 11; Torx T9 Spare screw M3 x 11; Torx T9	{	GZ349012
	Schraubendreher Torx T9 Screw driver Torx T9	{	GZ349022
	Drehmoment-Schraubendreher Torx T9 Torque screw driver Torx T9	{	GZ349042
	Verschluss-Schraube M12x1 x 16; SW6 Screw plug M12x1 x 16; SW6	{	GZ359312

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

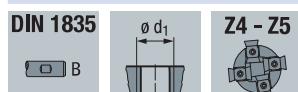


13

Für Abmessungen ab Gewindedurchmesser 48 mm
For thread sizes, from thread diameter 48 mm

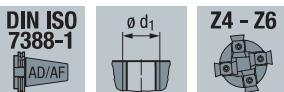
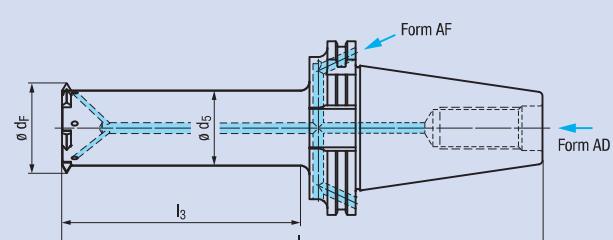
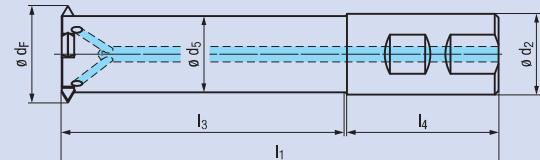


Gigant-ic



	Ø d ₁	Ø d _F	Ø d ₂	Ø d ₅	l ₁	l ₃	l ₄	Z (Inserts)
NPT, NPTF Rc, W	≥ 48	40,25	32	31	173	110	60	4
	≥ 48	40,25	32	31	208	145	60	4
BSW, BSF	≥ 60	48	40	38	245	170	70	5

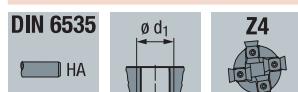
Gigant sprinter



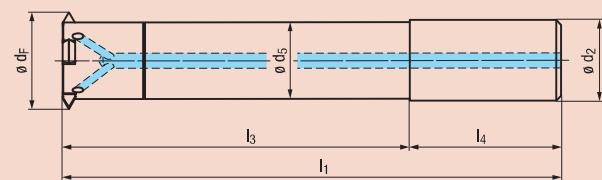
	Ø d ₁	Ø d _F	Ø d ₅	l ₁	l ₃	SK	Z (Inserts)
SELF-LOCK	≥ 48	40,25	31	212	110	SK 40	4
	≥ 48	40,25	31	245	110	SK 50	4
Tr	≥ 48	40,25	31	247	145	SK 40	4
	≥ 48	40,25	31	280	145	SK 50	4
Zubehör	≥ 64	52,55	43,75	333	195	SK 50	6



Gigant soft run

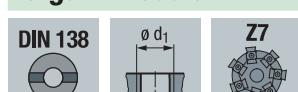


	Ø d ₁	Ø d _F	Ø d ₂	Ø d ₅	l ₁	l ₃	l ₄	Z (Inserts)
GF-VZ	≥ 48	40,25	32	31	207	145	60	4



Mit variabler Länge auf Anfrage
With variable length upon request

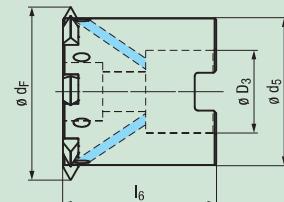
Gigant modular



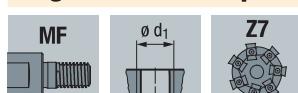
	Ø d ₁	Ø d _F	Ø d ₅	D ₃	l ₆	Z (Inserts)
	≥ 66	57,5	48	27	47,5	7



Nur einzeln einsetzbar
Can only be used individually



Gigant modular sprinter

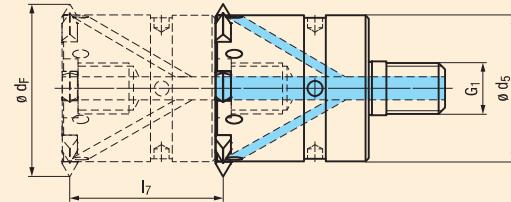


	Ø d ₁	Ø d _F	Ø d ₅	l ₇	G ₁	Z (Inserts)
	≥ 66	57,5	48	48	M18 x 1,5	7



Je nach Anwendung empfehlen wir, max. 3 Gigant modular sprinter miteinander zu kombinieren

Depending on the application, we recommend to combine up to a maximum of 3 Gigant modular sprinter



Die Innensechskant-Schraube zum stirnseitigen Verschließen der Kühlmittel-Bohrung ist im Lieferumfang enthalten.
The hexagon socket screw to close the coolant hole on the face side is included with the delivery

Das Maß l₇ muss ein Vielfaches der Steigung P des herzustellenden Gewindes sein
The measurement l₇ must be a multiple of the pitch P of the thread to be produced

Lieferumfang: ohne 4-Zahn-Wendeplatten, mit Spannschrauben
Delivery: without 4-tooth indexable inserts, with clamping screws



Fräsringe zum Entfernen des unvollständigen Ganges siehe Seite 506
Milling rings for removal of the incomplete thread, see page 506



Aufnahmen und Verlängerungen für Gigant modular und Gigant modular sprinter siehe Seite 508 - 509
Holders and extensions for Gigant modular and Gigant modular sprinter, see pages 508 - 509

Achtung: Beim Anziehen der Spannschraube ist das empfohlene Anzugsmoment von 3,0 Nm zu beachten

Note: When tightening the clamping screw, the recommended tightening torque 3.0 Nm must be used

13

4-Zahn-Wendeplatten für Steigungsbereich bis 6 mm (4 Gg/1")
4-tooth indexable inserts for a pitch range up to 6 mm (4 tpi)



	HM Carbide	RH + LH		
	Beschichtung · Coating	TIN		TIALN-T4
Einsatzgebiete – Material Applications – material	► 358	P 1.1-5.1 N 1.1-5.3	M 1.1-4.1 S 1.1-2.6	K 1.1-4.2 H 1.1-1.2
P mm	P Gg/1" (tpi)	b	h	WP-Z4 Gr.13 TIN
1,5 - 3	16 - 9	9,5	15,5	WP-Z4 Gr.13 TIN
3 - 6	9 - 4	9,5	15,5	TIALN-T4

M, MF, UN DIN 13, ASME B1.1					
1,5 - 3	16 - 9	9,5	15,5	GF643305.9514	GF643307.9514
3 - 6	9 - 4	9,5	15,5	GF643305.9518	GF643307.9518

M, MF DIN 13					
4,5	9,5	15,5		GF641307.9521	
5	9,5	15,5		GF641307.9522	

G (BSP), BSW, BSF, W DIN EN ISO 228, BS 84						
(2,309)	11 (4,5 - 12)	9,5	15,5	GF643305.9550	GF643307.9550	

Tr DIN 103						
5	9,5	15,5	$\varnothing d_1 \text{ min.} = d_F + 43$		GF643307.9604	
6	9,5	15,5	$\varnothing d_1 \text{ min.} = d_F + 53$		GF643307.9605	

Zubehör Accessories

	Ersatzschraube M4 x 13; Torx T15 Spare screw M4 x 13; Torx T15	{	GZ349013
	Schraubendreher Torx T15 Screw driver Torx T15	{	GZ349023
	Drehmoment-Schraubendreher Torx T15 Torque screw driver Torx T15	{	GZ349043
	Hakenschlüssel mit Zapfen nach DIN 1810-B 45-50 mm Hook wrench type B with pin acc. to DIN 1810-B 45-50 mm	{	GZ349053
	Verschluss-Schraube M18x1,5 x 20; SW10 Screw plug M18x1,5 x 20; SW10	{	GZ359313

Andere Ausführungen auf Anfrage, z.B.
Other designs upon request, e.g.



Einstechplatten in verschiedenen Ausführungen
Infeed inserts in various designs

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEFC

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys



Product
Finder v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

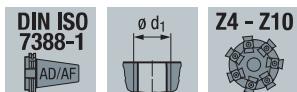
14

Für Abmessungen ab Gewindedurchmesser 64 mm
For thread sizes, from thread diameter 64 mm

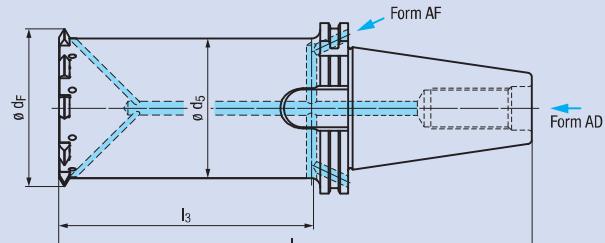


Gigant-ic

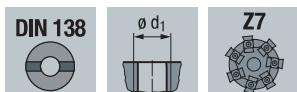
Gigant sprinter



	$\emptyset d_1$ mm	$\emptyset d_F$ mm	$\emptyset d_5$	l_1	l_3	SK	Z (Inserts)	
≥ 64	52,55	41	253	150	SK 40	4		GZ343014
≥ 64	52,55	41	286	150	SK 50	4		GZ344014
≥ 64	52,55	41	298	195	SK 40	4		GZ343114
≥ 64	52,55	41	331	195	SK 50	4		GZ344114
≥ 80	66,55	55	308	170	SK 50	7		GZ344024
≥ 80	66,55	55	398	260	SK 50	7		GZ344124
≥ 115	92	80	489	360	SK 50	10		GZ344204

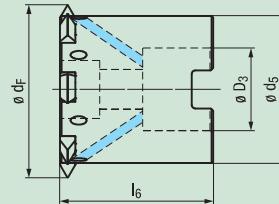


Gigant modular

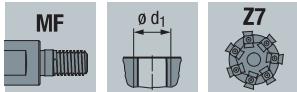


	$\emptyset d_1$ mm	$\emptyset d_F$ mm	$\emptyset d_5$	D_3	l_6	Z (Inserts)	
	80	71,5	60	27	47	7	GZ352004

Nur einzeln einsetzbar
Can only be used individually



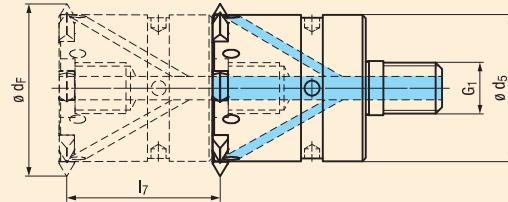
Gigant modular sprinter



	$\emptyset d_1$ mm	$\emptyset d_F$ mm	$\emptyset d_5$	l_7	G_1	Z (Inserts)	
	80	71,5	60	60	M24 x 1,5	7	GZ353004

Je nach Anwendung empfehlen wir, max. 3 Gigant modular sprinter miteinander zu kombinieren

Depending on the application, we recommend to combine up to a maximum of 3 Gigant modular sprinter



Die Innensechskantschraube zum stirnseitigen Verschließen der Kühlmittel-Bohrung ist im Lieferumfang enthalten
The hexagon socket screw to close the coolant hole on the face side is included with the delivery

Das Maß l_7 muss ein Vielfaches der Steigung P des herzustellenden Gewindes sein
The measurement l_7 must be a multiple of the pitch P of the thread to be produced

Lieferumfang: ohne 4-Zahn-Wendeplatten, mit Spannschrauben
Delivery: without 4-tooth indexable inserts, with clamping screws

Achtung: Beim Anziehen der Spannschraube ist das **empfohlene Anzugsdrehmoment von 5,0 Nm** zu beachten
Note: When tightening the clamping screw, the **recommended tightening torque 5.0 Nm** must be used



Fräsringe zum Entfernen des unvollständigen Ganges siehe Seite 506
Milling rings for removal of the incomplete thread, see page 506



Aufnahmen und Verlängerungen für Gigant modular und Gigant modular sprinter siehe Seite 508 - 509
Holders and extensions for Gigant modular and Gigant modular sprinter, see pages 508 - 509

14

4-Zahn-Wendeplatten für Steigungsbereich bis 8 mm (3,5 Gg/1")
4-tooth indexable inserts for a pitch range up to 8 mm (3.5 tpi)



	HM Carbide	RH + LH		
	Beschichtung · Coating	TIN		TIALN-T4
Einsatzgebiete – Material Applications – material	► 358	P 1.1-5.1 N 1.1-5.3	M 1.1-4.1 S 1.1-2.6	K 1.1-4.2 H 1.1-1.2
P mm	P Gg/1" (tpi)	b	h	WP-Z4 Gr.14 TIN
1,5 - 3	16 - 9	12,5	19	WP-Z4 Gr.14 TIN
3 - 6	9 - 4	12,5	19	WP-Z4 Gr.14 TIALN-T4

M, MF, UN DIN 13, ASME B1.1					
1,5 - 3	16 - 9	12,5	19	GF643405.9514	GF643407.9514
3 - 6	9 - 4	12,5	19	GF643405.9518	GF643407.9518

M, MF DIN 13					
5,5	12,5	19			GF641407.9709
6	12,5	19			GF641407.9523

G (BSP), BSW, BSF, W DIN EN ISO 228, BS 84						
(2,309)	11 (3,5 - 12)	12,5	19	GF643405.9550	GF643407.9550	

Tr DIN 103						
6	12,5	19	$\varnothing d_1 \text{ min.} = d_F + 61$		GF643407.9605	
8	12,5	19	$\varnothing d_1 \text{ min.} = d_F + 84$		GF643407.9736	

Zubehör Accessories

	Ersatzschraube M5 x 15; Torx T20 Spare screw M5 x 15; Torx T20	{	GZ349014
	Schraubendreher Torx T20 Screw driver Torx T20	{	GZ349024
	Drehmoment-Schraubendreher Torx T20 Torque screw driver Torx T20	{	GZ349044
	Hakenschlüssel mit Zapfen nach DIN 1810-B 58-62 mm Hook wrench type B with pin acc. to DIN 1810-B 58-62 mm	{	GZ349054
	Verschluss-Schraube M24x1,5 x 25; SW12 Screw plug M24x1,5 x 25; SW12	{	GZ359314

Andere Ausführungen auf Anfrage, z.B.
Other designs upon request, e.g.



Einstechplatten in verschiedenen Ausführungen
Infeed inserts in various designs

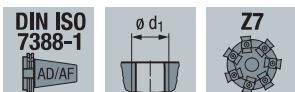


15

Für Abmessungen ab Gewindedurchmesser 115 mm
For thread sizes, from thread diameter 115 mm



Gigant-ic

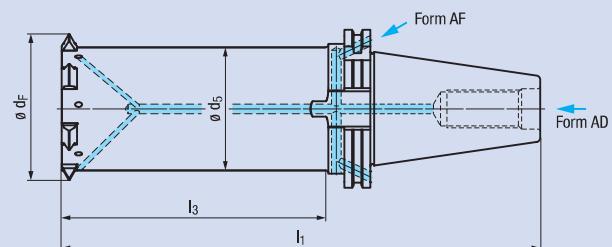


Gigant-ic

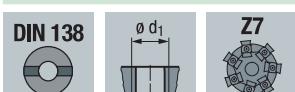
Gr.15-IKZN

GZ344035

GZ344045



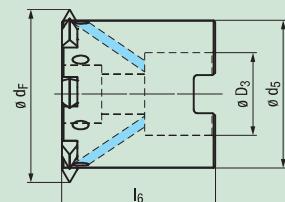
Gigant modular

Gigant
modular

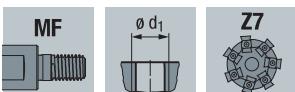
Gr.15-IKZN

GZ352005

Nur einzeln einsetzbar
Can only be used individually



Gigant modular sprinter

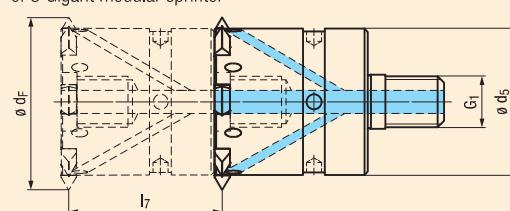
Gigant
modular sprinter

Gr.15-IKZN

GZ353005

Je nach Anwendung empfehlen wir, max. 3 Gigant modular sprinter miteinander zu kombinieren

Depending on the application, we recommend to combine up to a maximum of 3 Gigant modular sprinter



Die Innensechskant-Schraube zum stirnseitigen Verschließen der Kühlmittel-Bohrung ist im Lieferumfang enthalten
The hexagon socket screw to close the coolant hole on the face side is included with the delivery

Das Maß l₇ muss ein Vielfaches der Steigung P des herzustellenden Gewindes sein
The measurement l₇ must be a multiple of the pitch P of the thread to be produced

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

Lieferumfang: ohne 4-Zahn-Wendeplatten, mit Spannschrauben

Delivery: without 4-tooth indexable inserts, with clamping screws

Achtung: Beim Anziehen der Spannschraube ist das **empfohlene Anzugsdrehmoment von 5,0 Nm** zu beachten
Note: When tightening the clamping screw, the **recommended tightening torque 5.0 Nm** must be used



Aufnahmen und Verlängerungen für Gigant modular und Gigant modular sprinter siehe Seite 508 - 509
Holders and extensions for Gigant modular and Gigant modular sprinter, see pages 508 - 509

15

4-Zahn-Wendeplatten für Steigungsbereich bis 12 mm (4 Gg/1")
4-tooth indexable inserts for a pitch range up to 12 mm (4 tpi)



	HM Carbide	RH + LH		
			Beschichtung · Coating	TIN TIALN-T4
Einsatzgebiete – Material Applications – material	► 358		P 1.1-5.1 N 1.1-5.3	M 1.1-4.1 S 1.1-2.6
P mm	P Gg/1" (tpi)	b	h	WP-Z4 Gr.15 TIN WP-Z4 Gr.15 TIALN-T4

M, MF, UN DIN 13, ASME B1.1					
1,5 - 6	16 - 4	14,3	28,58	GF643505.9514	GF643507.9514
6 - 8	4	14,3	28,58	GF643505.9523	GF643507.9523

Tr DIN 103					
10		14,3	28,58	$\varnothing d_1 \text{ min.} = d_F + 101$	GF643507.9748
12		14,3	28,58	$\varnothing d_1 \text{ min.} = d_F + 122$	GF643507.9749

Zubehör
Accessories

	Ersatzschraube M5 x 18; Torx T20 Spare screw M5 x 18; Torx T20	{	GZ349015
	Schraubendreher Torx T20 Screw driver Torx T20	{	GZ349025

	Drehmoment-Schraubendreher Torx T20 Torque screw driver Torx T20	{	GZ349045
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	Hakenschlüssel mit Zapfen nach DIN 1810-B 68-75 mm Hook wrench type B with pin acc. to DIN 1810-B 68-75 mm	{	GZ349055
	Verschluss-Schraube M24x1,5 x 25; SW12 Screw plug M24x1,5 x 25; SW12	{	GZ359315

Andere Ausführungen auf Anfrage, z.B.
Other designs upon request, e.g.

- ACME-Gewinde
ACME thread
- Rundgewinde
Round thread
- Särgengewinde
Buttress thread

Einstechplatten in verschiedenen Ausführungen
Infeed inserts in various designs



Product
Finder v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

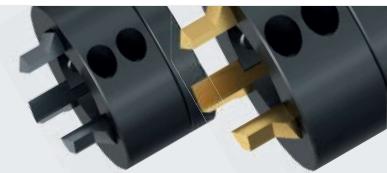
ZIRK-GF

Gigant

MoSys

10-14

Fräsringe zum Entfernen des unvollständigen Ganges
Milling rings for removal of the incomplete thread

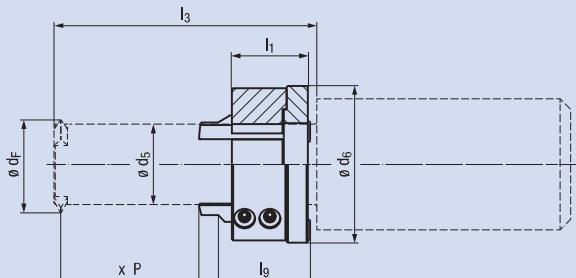


Gigant-ic

Z3 - Z4



	Größe Size	$\varnothing d_F$ mm	$\varnothing d_5$	$\varnothing d_6$	l_1	l_9	Z (Inserts)	
NPT, NPTF Rc, W	10	20,5	15,9	33	18	23	3	GZ80FOC4.010040
	11	23,85	19	37	18	22	3	GZ80GOC4.011040
BSW, BSF	12	32,85	24,5	47	22	24	3	GZ80HOC4.012060
	13	40,25	31	55	22	24	4	GZ80IOC4.013060
Pg	14	52,55	41	65	22	23	4	GZ80JOC4.014060



MJ
UNJC, UNJF Das Maß „x P“ muss ein Vielfaches der Steigung P des herzustellenden Gewindes sein
The measurement "x P" must be a multiple of the pitch P of the thread to be produced

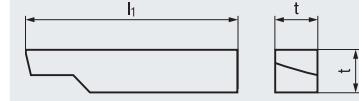
EG (STI) Die Nutztiefe l_3 des Zirkular-Gewindefräskörpers verringert sich um das Maß l_9
The usable depth l_3 of the circular thread milling body is reduced by dimension l_9

SELF-LOCK

Fräsplatten für Fräsringe
Milling inserts for milling rings

HM
Carbide

RH + LH



Beschichtung · Coating

TIN

TIALN-T4

P | 1.1-5.1

M | 1.1-4.1

K | 1.1-4.2

N | 1.1-5.3

S | 1.1-2.6

H | 1.1-1.2



Einsatzgebiete – Material
Applications – material ➔ 358

Größe Size	l_1	t
10	20	4
11	20	4
12	25	6
13	25	6
14	25	6

FP

TIN

GF663005

FP

TIALN-T4

GF663007

GF663105

GF663107

GF663205

GF663207

GF663305

GF663307

GF663405

GF663407

MoSys





Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys





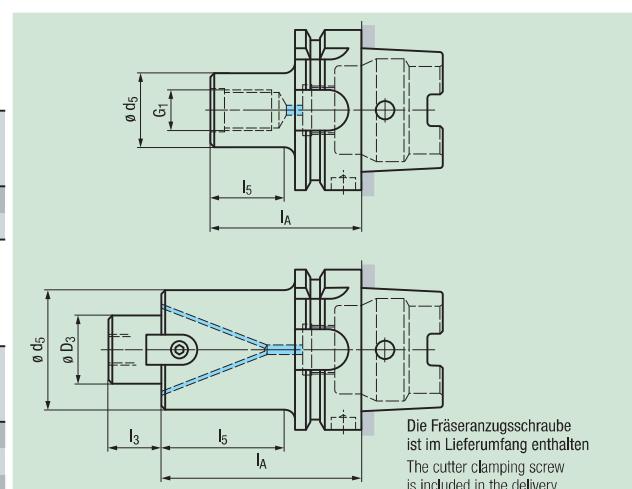
10-15

Aufnahmen für Gigant modular
Holders for Gigant modular



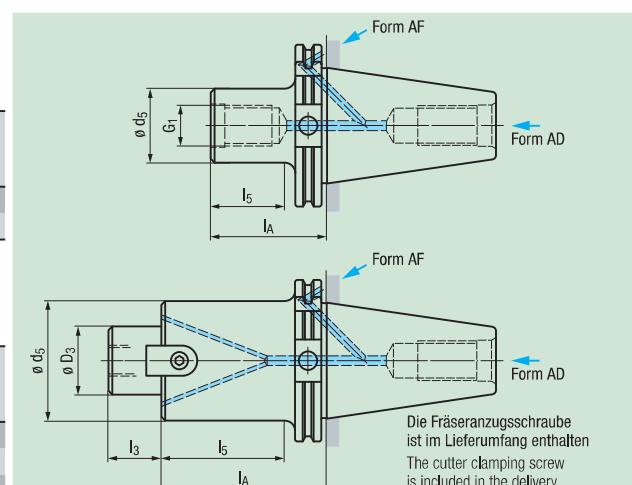
HSK-A	DIN 69893-1	M	
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Größe Size	$\varnothing d_5$	l_5	l_A	G_1	HSK	
10 - 12	29	29	59	M16	HSK-A63	GZ5391A4.116059



SK (ISO)	DIN ISO 7388-1	M	
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Größe Size	$\varnothing D_3$	$\varnothing d_5$	l_3	l_5	l_A	HSK	
13	27	48	21	131	160	HSK-A63	GZ5391B4.270160
14	27	60	21	131	160	HSK-A63	GZ5391B5.270160
15	32	78	24	171	200	HSK-A63	GZ5391B4.320200



DIN 138	
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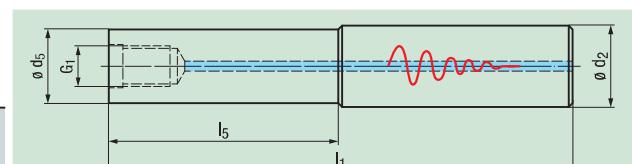
Größe Size	$\varnothing D_3$	$\varnothing d_5$	l_3	l_5	l_A	SK	
10 - 12	29	11	36	M16	SK 40	GZ5243A4.116036	
10 - 12	29	11	36	M16	SK 50	GZ5263A4.116036	

Kühlsmierstoffrohre und Schlüssel für HSK-Schäfte Coolant tubes and wrenches for HSK shanks	► 742 - 743
Anzugsbolzen für Steilkegel Pull studs for ISO tapers	► 70

HSS-Verlängerungen für Gigant modular HSS extensions for Gigant modular	
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Ø32	DIN 1835	M	
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Größe Size	$\varnothing d_2$ $h6$	$\varnothing d_5$	l_1	l_5	G_1	
10 - 12	32	29,4	200	108	M16	GZ5521A4.320108

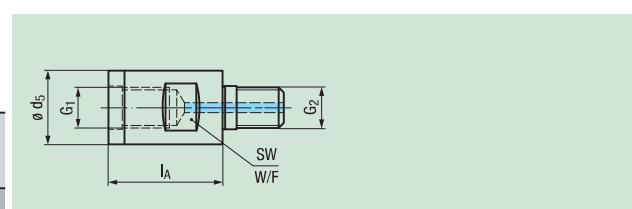


Schwingungsgedämpft, mit Hartmetall-Kern
Special design for reduced vibration, with carbide core

Zwischenadapter für Gigant modular Intermediate adapters for Gigant modular	
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M16	M	
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Größe Size	$\varnothing d_5$	l_A	G_1	G_2	SW (W/F)	
10 - 12	29	40	M16	M16	22	GZ56E1A4.116040
10 - 12	29	90	M16	M16	22	GZ56E1A4.116090



10-15

Aufnahmen für Gigant modular sprinter
Holders for Gigant modular sprinter



Product Finder

v_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

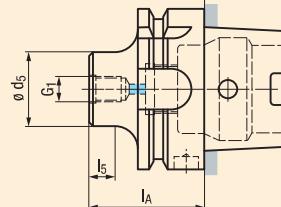
ZIRK-GF

Gigant

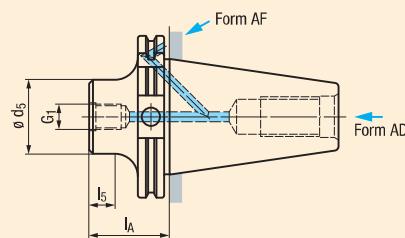
MoSys

**HSK-A****DIN 69893-1****MF**

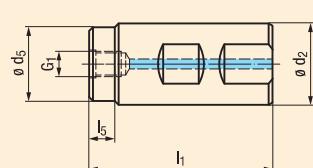
Größe Size	Ø d ₅	l ₅	l _A	G ₁	HSK	
10	22,15	10	45	M 8 x 1	HSK-A63	GZ7391AA.251010
11	29,15	10	45	M10 x 1	HSK-A63	GZ7391AB.276010
12	37,65	12	45	M12 x 1	HSK-A63	GZ7391AC.301012
13	48	32	60	M18 x 1,5	HSK-A63	GZ7391AD.390032
14	60	40	80	M24 x 1,5	HSK-A100	GZ73A1AE.452040
15	78	45	76	M24 x 1,5	HSK-A100	GZ73A1AF.452045

**SK (ISO)****DIN ISO 7388-1****MF**

Größe Size	Ø d ₅	l ₅	l _A	G ₁	SK	
10	22,15	10	35	M 8 x 1	SK 40	GZ7243AA.251010
11	29,15	10	35	M10 x 1	SK 40	GZ7243AB.276010
12	37,65	12	35	M12 x 1	SK 40	GZ7243AC.301012
13	48	15	37	M18 x 1,5	SK 40	GZ7243AD.390015
14	60	15	40	M24 x 1,5	SK 50	GZ7263AE.452015
15	78	20	45	M24 x 1,5	SK 50	GZ7263AF.452020

**Ø25-Ø32****DIN 1835****MF**

Größe Size	Ø d ₂	Ø d ₅	l ₁	l ₅	G ₁	
10	25	22,15	68	10	M 8 x 1	GZ75D1AA.251010
11	32	29,15	72	10	M10 x 1	GZ7521AB.276010
12	32	37,65	77	12	M12 x 1	GZ7521AC.301012



Kühlschmierstoffrohre und Schlüssel für HSK-Schäfte
Coolant tubes and wrenches for HSK shanks

► 742 - 743



Anzugsbolzen für Steilkegel
Pull studs for ISO tapers

► 70

Product
Finderv_c / f_z

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

**„MoSys“ gestattet vielseitige
Plan- und Stufensenkenoperationen!****In einer Aufspannung erzielen Sie folgende Vorteile:**

- Geringe Anzahl an Werkzeugen
- Wenig Lagerplätze und Lagerkosten
- Kurze Bearbeitungszeiten

„MoSys“ erfüllt folgende Voraussetzungen:

- Einfache Montage
- Hohe Steifigkeit
- Hohe Maßgenauigkeit
- Modular aufgebaut und einsetzbar

“MoSys” makes a large number of counterbore and stepped bore operations possible!

With just one clamping operation, you enjoy a number of advantages:

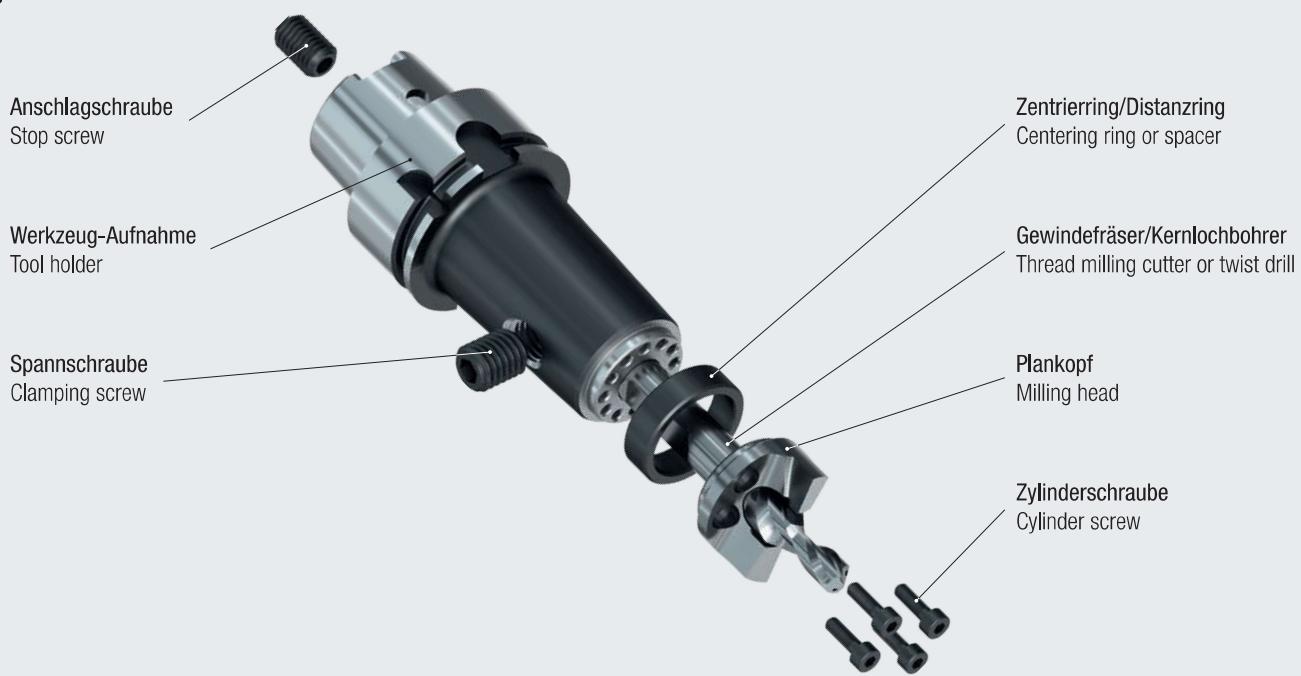
- Smaller tool quantities
- Fewer magazine places and reduced stocking costs
- Shorter machining times

“MoSys” answers to the following requirements:

- Easy assembly
- High degree of rigidity
- High dimensional precision
- Modular construction for universal application

MoSys mit Vollhartmetall-Kopf

MoSys with solid carbide head

**MoSys mit Wendeschneidplatten**

MoSys with indexable inserts



Steilkegelschäfte
ISO taper shanksKegel-Hohlschäfte
Hollow taper shanksAnschluss für Plankopf
Connection for milling headZentrierring
Centering ringVollhartmetall-Planköpfe
Solid carbide milling headsAnschluss für Wendeschneidplatten
Connection for indexable insertsWendeschneidplatten
zum Planen und Fasen
Indexable inserts
for plane milling and chamferingWendeschneidplatten
zum Planen
Indexable inserts
for plane millingGewindefräser oder Spiralbohrer
Thread milling cutters or twist drills

Product
Finder

vc / fz

M

MF

UNC
UN, UNSUNF
UNEF

G, Rp

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr

Zubehör
Accessories

BGF

ZBGF

GSF

GF

GF-VZ

GF-KEG

ZGF

ZIRK-GF

Gigant

MoSys

**Zur Angebotsausarbeitung werden folgende Daten benötigt:**

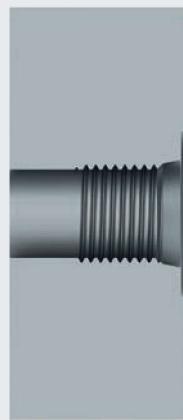
- Werkstückzeichnung mit evtl. Störkontur
- Maschinenseitige Aufnahme mit Kühlsmierstoff-Übergabe
- Detaillierte Senkkontur
- Herzustellende Gewindeabmessung einschließlich Gewindetiefe
- Bohrungsform (Durchgangsloch, Grundloch)
- Kernlochdurchmesser (falls vorhanden)
- Zu bearbeitender Werkstoff

For submitting an offer, we need the following information:

- Workpiece drawing with possible obstruction contours
- Shank connection on the machine side, with coolant supply
- Detailed countersink contour
- Size of the thread to be produced, including thread depth
- Type of hole (through hole or blind hole)
- Drilled hole diameter (if known)
- Workpiece material

Beispiel für Bearbeitung mit Vollhartmetall-Kopf

Example for machining with solid carbide head

**Beispiel für Bearbeitung mit Wendeschneidplatten**

Example for machining with indexable inserts

