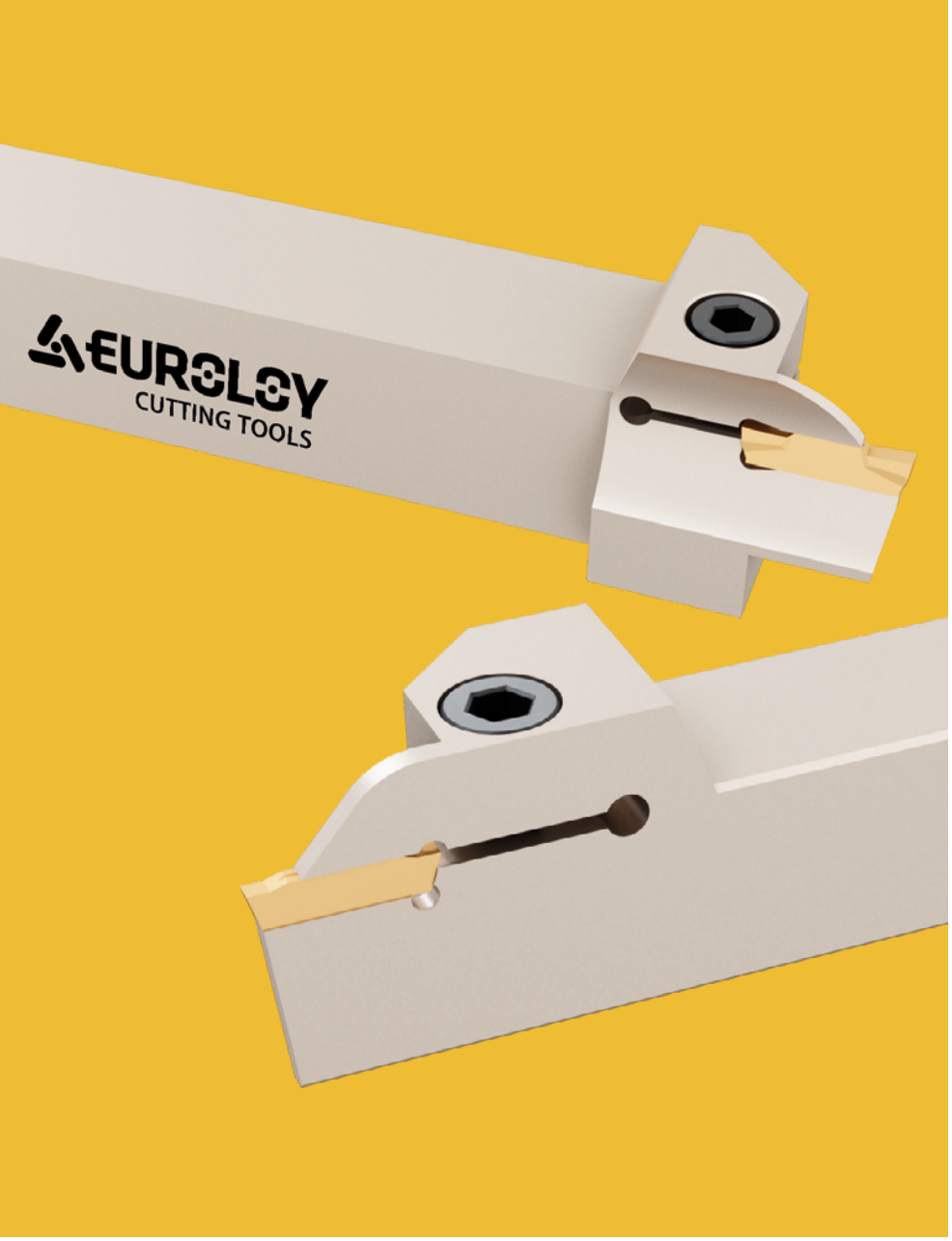





KESME VE KANAL İŞLEME

PARTING & GROOVING

2026 I CATALOG

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CARBIDE TOOLS

İçindekiler

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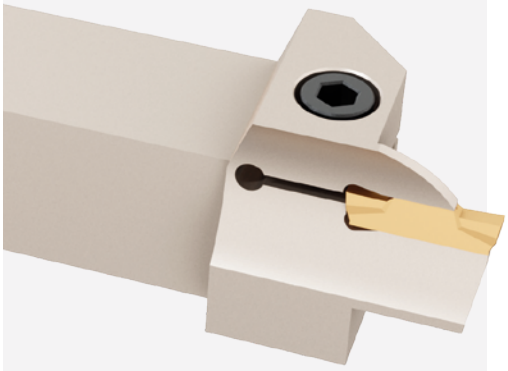

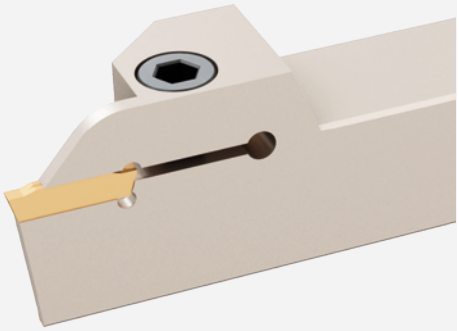

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Kanal Açma Takımları Kodlama Sistemi / *Grooving Tools Coding System*

1	2	3	4		5		6	7		8
G	E	K	R	-	2525	-	T21	MG	-	03
Kanal Açma *Grooving*	İşleme *Machining*	Uç Modeli *Insert Model*	Yön *Direction*		Ölçü *Dimensions*		T-Max	Uç Kodu *Insert Code*		Uç Ölçü *Insert Dimensions*
	E : Dış çap işleme *E: External Machining*	G : Genel *G: General*	R : Sağ *R: Right*							
	I : İç çap işleme *I: Internal Machining*		L : Sol *L: Left*							
	F : Alın İşleme *F: Face Grooving*									

Kesme ve Kanal İşleme Kalite Tablosu / *Parting & Grooving Grade System*

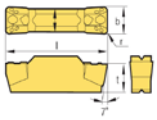
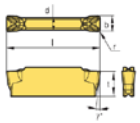
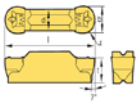
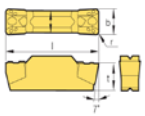
Kalite *Grade*	ISO	Kaplama *Coating*	Özellikler *Features*
TC1115 / TC2115	**P15**	CVD	Dövme çelik ve rulman çeliğinde kesme ve kanal açma işlemleri için tasarlanmış CVD kaplamalı kalitedir. Yüksek hızlı ve sürekli talaşlı imalat uygulamalarında istikrarlı kesici kenar performansı ve güvenilir takım ömrü sunar. *CVD-coated grade designed for parting and grooving of forged steel and bearing steel. It offers stable edge performance and reliable tool life in high-speed and continuous machining.*
TC1125 / TC2125	**P25**	CVD	Çelik işleme için geliştirilmiş, CVD kaplamalı genel amaçlı bir kalitedir. Yüksek aşınma direnci ve kenar stabilitesi sayesinde orta ve yüksek kesme hızlarında güvenilir performans sunar. Sürekli ve hafif kesintili operasyonlarda uzun takım ömrü ve proses güvenliği sağlar. *CVD-coated general-purpose grade designed for steel machining. It offers high wear resistance and excellent edge stability, ensuring reliable performance at medium to high cutting speeds. Suitable for continuous and mildly interrupted applications, providing long tool life and stable machining.*
TP4320 / TP3320	**M20**	PVD	TP4320 / TP3320 ısıya dayanıklı alaşımlar (HRSA) ve paslanmaz çelik için tasarlanmış PVD kaplamalı bir kalitedir. Orta ve yüksek hızlarda, yüksek aşınma ve plastik deformasyon direnci sunar ve sürekli çalışma koşullarında stabil takım ömrü sağlar. Zor işlenen malzemelerde orta - finiş uygulamalarda etkilidir. TP4320 / TP3320 is a PVD-coated grade for heat-resistant alloys (HRSA) and stainless steels. It delivers high wear resistance and resistance to plastic deformation at mid to high cutting speeds and elevated temperatures, offering stable tool life in continuous cutting conditions. It is effective for medium to finish machining of hard-to-cut materials.
TP4330	**M30**	PVD	TP4330, paslanmaz çeliklerin işlenmesi için geliştirilmiş genel amaçlı bir M30 kalitedir. Yüksek yapışma mukavemetine sahip PVD kaplaması sayesinde aşınmaya ve talaşlanmaya karşı direnç sağlar, orta hız ve orta ilerleme koşullarında stabil takım ömrü sunar. *TP4330 is a general-purpose M30 grade for machining stainless steels.* *Its PVD coating provides good wear resistance and edge stability, ensuring stable tool life under medium cutting speeds and feeds.*

Kesme ve Kanal İşleme Kalite Tablosu / Parting & Grooving Grade System

Kalite *Grade*	ISO	Kaplama *Coating*	Özellikler *Features*
TC2210	**K10**	CVD	TC2210 (K10), sürekli ve hafif kesintili kesme koşullarında yüksek hızda işleme için uygun olup yüksek aşınma direnci ve kararlı takım ömrü sunar. *TC2210 (K10) is a high-speed machining grade for continuous and light interrupted cutting, offering high wear resistance and stable tool life.*
TC2215	**K15**	CVD	TC2215, pik ve sfero dökme demirin yüksek ilerleme ve darbeli işleme koşullarında tornalanması için geliştirilmiş CVD kaplamalı K15 bir kalitedir. Aşınma ve talaşlanmaya karşı yüksek direnci sayesinde kesintili kesmelerde ve titreşimli uygulamalarda stabil takım ömrü sunar. Dökme demir işlemede eğim ve yan yüzey aşınmalarını minimize ederek güvenilir ve verimli işleme sağlar. *TC2215 is a CVD-coated K15 grade developed for turning ductile and grey cast iron under high feed and impact machining conditions. It offers high resistance to wear and chipping, ensuring stable tool life in interrupted cuts and vibration-prone applications. TC2215 minimizes flank and rake face wear, providing reliable and efficient machining of cast iron components.*
TN7501	**N10**	-	TN7501, alüminyum ve alüminyum alaşımlarının yüksek hızda işlenmesi için geliştirilmiş özel bir kalitedir. Keskin kesme kenarı ve optimize edilmiş yüzeyi sayesinde yapışmayı azaltır ve üstün yüzey kalitesi sağlar. *TN7501 is a dedicated aluminum machining grade designed for high-speed cutting. Optimized surface reduces built-up edge formation and provide excellent surface finish.*
TP2410	**S10**	CVD	TP2410, orta ve yüksek kesme hızlarında, yüksek sıcaklık altında sürekli işleme koşullarında yüksek aşınma ve talaşlanma direnci sunan evrensel bir kalitedir. Isıya dayanıklı alaşımlar ve paslanmaz çeliklerin orta işlemesinde güvenilir performans sağlar. *TP2410 is a universal grade offering high wear and chipping resistance under continuous machining conditions at medium to high cutting speeds and elevated temperatures. It is suitable for medium machining of heat-resistant alloys and stainless steels.*
TP2625	P20 M20	PVD	TP2625; çelik ve paslanmaz çeliğin işlenmesi için geliştirilmiş, genel amaçlı ve bir tok kalitedir. PVD kaplamalı yapısı sayesinde aşınma direnci ve tokluk arasında dengeli performans ve takım ömrü sunar. *TP2625 is a tough, general-purpose grade for steels, stainless steels. Designed for stable performance in interrupted machining conditions. Its PVD-coated substrate provides a balanced combination of wear resistance and toughness, ensuring reliable tool life in semi-finishing operations.*
TP4630	P30 M30	PVD	TP4630 is a general-purpose grade for machining steels, stainless steels. It provides stable cutting performance and helps achieve excellent surface finish across a wide range of applications. *TP4630 is a general-purpose grade for machining steels, stainless steels. It provides stable cutting performance and helps achieve excellent surface finish across a wide range of applications.*

Kesme ve Kanal İşleme / Parting & Grooving

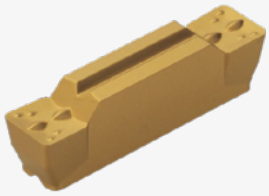
MGMN...

Ürün Görseli *Product Image*	Talaşkırıcı *Chipbreaker*	ISO	Çalışma Koşulları *Working Parameters*	P				M			K		N	S	U		Boyutlar (mm) *Dimensions (mm)*					Teknik Resim *Technical Drawing*
			Vc (m/dk) *Vc (m/min)*	(120-240)	(120-240)	(90-210)	(90-210)	(80-200)	(80-200)	(70-160)	(140-260)	(120-220)	(80-300)	(120-250)								
		Uç Kodu *Insert Code*	Fn (mm/dev) *Fn (mm/rev)*	TC1115	TC2115	TC1125	TC2125	TP4320	TP3320	TP4330	TC2210	TC2215	TN7501	TP2410	TP2625	TP4630	b	r	l	d	t	
	G	MGMN 150	0.03 - 0.09	Δ			●		○		Δ	○			●	●	1.5	0.15	16	1.2	3.5	
		MGMN 200	0.03 - 0.40	Δ			●		○		Δ	○			●	●	2.0	0.2	16	1.6	3.5	
		MGMN 250	0.05 - 0.20	Δ			●		○		Δ	○			●	●	2.5	0.2	18.5	2.0	3.85	
		MGMN 300	0.05 - 0.15	Δ			●		○		Δ	○			●	●	3.0	0.3	21	2.35	4.8	
		MGMN 400	0.05 - 0.14	Δ			●		○		Δ	○			●	●	4.0	0.3	21	3.3	4.8	
	T	MGMN 150	0.03 - 0.09	Δ			●		○		Δ	○			●	●	1.5	0.15	16	1.20	3.5	
		MGMN 200	0.03 - 0.40	Δ			●		○		Δ	○			●	●	2.0	0.2	16	1.60	3.5	
		MGMN 250	0.05 - 0.20	Δ			●		○		Δ	○			●	●	2.5	0.2	18.5	1.60	3.85	
		MGMN 300	0.05 - 0.15	Δ			●		○		Δ	○			●	●	3.0	0.4	21	2.35	4.8	
		MGMN 400	0.04 - 0.30	Δ			●		○		Δ	○			●	●	4.0	0.4	21	3.3	4.8	
		MGMN 500	0.10 - 0.45	Δ			●		○		Δ	○			●	●	5.0	0.8	26	4.1	5.8	
		MGMN 600	0.05 - 0.20	Δ			●		○		Δ	○			●	●	6.0	0.80	26.20	5.0	5.8	
	M	MGMN 200	0.03 - 0.40	Δ			●		○		Δ	○			●	●	2.0	0.2	16	1.6	3.5	
		MGMN 250	0.05 - 0.20	Δ			●		○		Δ	○			●	●	2.5	0.2	18.5	2.0	3.85	
		MGMN 300	0.05 - 0.15	Δ			●		○		Δ	○			●	●	3.0	0.4	21	2.35	4.8	
		MGMN 400	0.05 - 0.14	Δ			●		○		Δ	○			●	●	4.0	0.4	21	3.3	4.8	
		MGMN 500	0.05 - 0.15	Δ			●		○		Δ	○			●	●	5.0	0.8	26	4.1	5.8	
		MGMN 600	0.05 - 0.20	Δ			●		○		Δ	○			●	●	6.0	0.8	26	5.0	5.8	
	M	MRMN 200	0.03 - 0.15	Δ			●		○		Δ	○			●	●	2.0	1.0	16	1.5	3.5	
		MRMN 300	0.05 - 0.15	Δ			●		○		Δ	○			●	●	3.0	1.5	21	2.35	4.8	
		MRMN 400	0.05 - 0.14	Δ			●		○		Δ	○			●	●	4.0	2.0	21	3.3	4.8	
		MRMN 500	0.05 - 0.15	Δ			●		○		Δ	○			●	●	5.0	2.5	26	4.1	5.8	
		MRMN 600	0.05 - 0.20	Δ			●		○		Δ	○			●	●	6.0	3.0	26	5.0	5.8	
	AL	MGGN 150	0.05 - 0.14										○				1.5	0.15	15.9	1.2	3.5	
		MGGN 200	0.03 - 0.55										●				2.0	0.2	16	1.6	3.5	
		MGGN 250	0.08 - 0.30										○				2.5	0.2	18.03	1.60	3.8	
		MGGN 300	0.08 - 0.25										●				3.0	0.4	21	2.35	4.8	
		MGGN 400	0.08 - 0.22										○				4.0	0.4	21	3.3	4.8	
		MGGN 500	0.10 - 0.20										○				5.0	0.8	26	4.1	5.8	
		MGGN 600	0.12 - 0.25										○				6.0	0.8	26	5.0	5.8	

● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item Δ Özel Sipariş - Special order

Kesme ve Kanal İşleme / Parting & Grooving

MGMN...

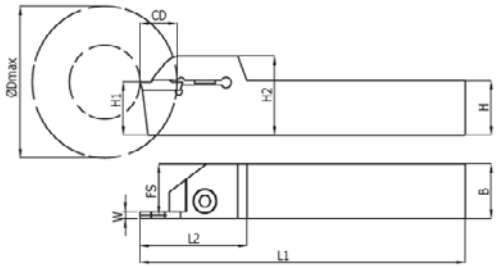
Talaş Kırıcı Formu *Chipbreaker Form*	Talaş Kırıcı Özellikleri *Chipbreaker Features*
 MGMN-T	Keskin kesme kenarı sayesinde stabil ve kontrollü talaş oluşumu sağlar. İyileştirilmiş talaş geometrisi, tornalama ve kanal açma operasyonlarında verimli ve güvenilir performans sunar. Bu geometri, hem tornalama hem de çoklu kanal açma uygulamalarında yüksek yüzey kalitesi ve uzun takım ömrü elde edilmesine yardımcı olur. The sharp cutting edge ensures stable cutting action and controlled chip formation. An optimized chip control geometry provides reliable and efficient performance in both turning and grooving operations. This geometry is designed to deliver improved surface quality and extended tool life in turning and various grooving applications.
 MGMN-M	Yaygın kullanılan düz yüzeyli geometrisi, özel tasarlanmış talaş kırıcı yapısıyla daha kontrollü ve düzgün talaş oluşumu sağlar.Merkezde konumlandırılmış talaş kırıcı tasarım, talaş akışını optimize ederek stabil bir kesme performansı sunar. Özel yerleştirilmiş konveks kesme kenarı, dış çap tornalama işlemlerinde daha pürüzsüz talaş oluşumuna yardımcı olur.Tornalama ve kanal açma operasyonlarında güvenilir ve dengeli bir performans için geliştirilmiştir. The widely used flat surface geometry, combined with a specially designed chipbreaker, ensures smoother and more controlled chip formation. The centrally positioned chipbreaker optimizes chip flow and provides stable cutting performance. A specially positioned convex cutting edge improves chip evacuation during external turning operations. Designed for reliable and balanced performance in both turning and grooving applications.
 MGMN-G	Özel olarak tasarlanmış talaş kırıcı yapısı sayesinde daha dar ve kontrollü talaşlar oluşturur. İyileştirilmiş talaş akışı, özellikle kanal açma uygulamalarında yüksek proses güvenilirliği sağlar. Kanal açma operasyonları için optimize edilmiş bu form, düzgün talaş tahliyesi ve stabil kesme performansı sunmak üzere geliştirilmiştir. The specially engineered chipbreaker design produces narrower and well-controlled chips. Improved chip flow enhances process reliability, especially in grooving applications. This geometry is optimized for grooving operations, providing smooth chip evacuation and stable cutting performance.

MGM..

Dış Kanal Açma Takımları

External Grooving Toolholders





Takım Kodu *Order Code*	Stok Durumu *Stock Availability*		Takım Ölçüleri (mm) *Tool Dimensions (mm)*										Kesici Uç *Insert Type*	Yedek Parçalar *Spare Parts*	
	L	R	Dmax	W	H	B	FS	L1	L2	H1	H2	CD / Tmax		Vida *Screw*	Anahtar *Allen Key*
GEKR/L-1212-T14MG-02	●	●	62	2	12	12	11	90	31	12	24	14	MGM.2	M5X16	A4
GEKR/L-1212-T14MG-03	●	●	62	3	12	12	10.5	90	31	12	24	14	MGM.3		
GEKR/L-1616-T17MG-1.5		●	62	1.5	16	16	14.5	125	41	16	28.5	17	MGM1.5	M8X27	
GEKR/L-1616-T17MG-02	●	●	62	2	16	16	15	125	41	16	28.5	17	MGM.2		
GEKR/L-1616-T18MG-03	●	●	62	3	16	16	14.5	125	41	16	28.5	18	MGM.3		
GEKR/L-1616-T18MG-04	●	●	62	4	16	16	14	125	41	16	28.5	18	MGM.4		
GEKR/L-2020-T17MG-1.5		●	62	1.5	20	20	18.5	125	41	20	28.5	17	MGM1.5		
GEKR/L-2020-T17MG-02	●	●	62	2	20	20	19	125	41	20	28.5	17	MGM.2		
GEKR/L-2020-T18MG-03	●	●	62	3	20	20	18.5	125	41	20	28.5	18	MGM.3		
GEKR/L-2020-T18MG-04	●	●	62	4	20	20	18	125	41	20	28.5	18	MGM.4		
GEKR/L-2020-T21MG-05		●	62	5	20	20	17.5	125	41	20	5.6	21	MGM.5		
GEKR/L-2525-T18MG-02	●	●	62	2	25	25	24	150	45	25	35	18	MGM.2		
GEKR/L-2525-T21MG-03	●	●	62	3	25	25	23.5	150	45	25	35	21	MGM.3		
GEKR/L-2525-T30MG-04	●	●	62	4	25	25	23	150	45	25	35	30	MGM.4		
GEKR/L-2525-T22MG-04	●	●	62	4	25	25	23	150	45	25	35	22	MGM.4		
GEKR/L-2525-T22MG-05	●	●	62	5	25	25	22.5	150	45	25	35	22	MGM.5		
GEKR/L-2525-T22MG-06	●	●	62	6	25	25	22	150	45	25	35	22	MGM.6		
GEKR/L-3232-T21MG-02		●	62	2	32	32	31	170	45	32	42	21	MGM.2		
GEKR/L-3232-T25MG-03		●	62	3	32	32	30.5	170	45	32	42	25	MGM.3		
GEKR/L-3232-T25MG-04		●	62	4	32	32	30	170	45	32	42	25	MGM.4		
GEKR/L-3232-T25MG-05		●	62	5	32	32	29.5	170	45	32	42	25	MGM.5		
GEKR/L-3232-T25MG-06		●	62	6	32	32	29	170	45	32	42	25	MGM.6		
GEKR/L-2525-T30MG-03		●	62	3	25	25	22	150	45	25	35	30	MGM.3		
GEKR/L-2525-T40MG-03		●	62	3	25	25	23.5	150	45	25	35	40	MGM.3		
GEKR/L-2525-T40MG-04		●	62	4	25	25	23	150	45	25	35	40	MGM.4		
GEKR/L-2525-T40MG-05		●	62	5	25	25	22.5	150	45	25	35	40	MGM.5		

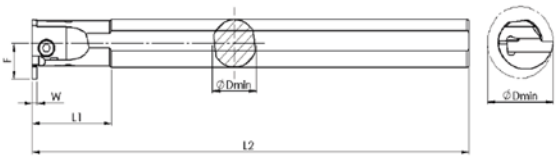
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

MGM..

İç Kanal Açma Takımları

Internal Grooving Toolholders





Takım Kodu *Order Code*	Stok Durumu *Stock Availability*		Takım Ölçüleri (mm) *Tool Dimensions (mm)*									
	L	R	D	D min	F	L1	L2	W	Tmax	Kesici Uç *Insert Type*	Vida *Screw*	Anahtar *Allen Key*
GIKR/L -2016-T04MG-02	●	●	16	20	12	180	25	2	4	MGM.2	M4x10	A3
GIKR/L -2520-T04MG-02	●	●	20	25	14	200	30	2	4	MGM.2	M4x12	
GIKR/L -2520-T04.5MG-03	●	●	20	25	14,5	200	30	3	4.5	MGM.3		
GIKR/L -2520-T04.5MG-04	●	●	20	25	14,5	200	30	4	4.5	MGM.4		
GIKR/L -3125-T05.5MG-02	●	●	25	31	18	250	35	2	5.5	MGM.2	M6x16	A5
GIKR/L -3225-T06MG-03	●	●	25	32	16,5	250	35	3	6	MGM.3		
GIKR/L -3225-T06MG-04	●	●	25	32	18,5	250	30	4	6	MGM.4		
GIKR/L -3225-T06MG-05	●	●	25	32	18,5	250	30	5	6	MGM.5		
GIKR/L -3932-T06MG-02		●	32	39	22	250	30	2	6	MGM.2	M8x27	A4
GIKR/L -4232-T09MG-03		●	32	42	25	250	35	3	9	MGM.3		
GIKR/L -4232-T09MG-04		●	32	42	25	250	35	4	9	MGM.4		
GIKR/L -4232-T09MG-05		●	32	42	25	250	35	5	9	MGM.5		
GIKR/L -5240-T10MG-03		●	40	52	30	350	60	3	10	MGM.3		
GIKR/L -5240-T10MG-04		●	40	52	30	350	60	4	10	MGM.4		
GIKR/L -5240-T10MG-05		●	40	52	30	350	60	5	10	MGM.5		

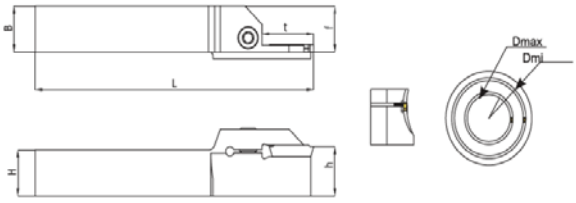
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

MGM..

Alın Kanal Açma Takımları

Face Grooving Toolholders



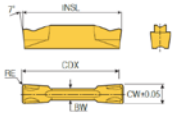
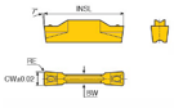
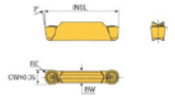
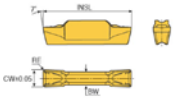


Takım Kodu *Order Code*	Stok Durumu *Stock Availability*		Takım Ölçüleri (mm) *Tool Dimensions (mm)*								Kesici Uç *Insert Type*	Yedek Parçalar *Spare Parts*	
	L	R	Dmin	Dmax	H	B	f	L1	h	Tmax		Vida *Screw*	Anahtar *Allen Key*
GFKR-2525-(30/40)-T17MG-03		●	30	40	25	25	26.7	150	25	17	MGM.3		
GFKR-2525-(35/50)-T17MG-03		●	35	50	25	25	26.7	150	25	17	MGM.3		
GFKR-2525-(45/70)-T17MG-03		●	45	70	25	25	26.7	150	25	17	MGM.3		
GFKR-2525-(65/105)-T17MG-03		●	65	105	25	25	26.7	150	25	17	MGM.3		
GFKR-2525-(100/150)-T17MG-03		●	100	150	25	25	26.7	150	25	17	MGM.3		
GFKR-2525-(30/40)-T22MG-04		●	30	40	25	25	26.8	150	25	22	MGM.4		
GFKR-2525-(35/50)-T22MG-04		●	35	50	25	25	26.8	150	25	22	MGM.4	M8X27	A4
GFKR-2525-(45/70)-T22MG-04		●	45	70	25	25	26.8	150	25	22	MGM.4		
GFKR-2525-(65/105)-T22MG-04		●	65	105	25	25	26.8	150	25	22	MGM.4		
GFKR-2525-(100/150)-T22MG-04		●	100	150	25	25	26.8	150	25	22	MGM.4		
GFKR-2525-(75/110)-T25MG-05		●	75	110	25	25	26.1	150	25	25	MGM.5		
GFKR-2525-(105/150)-T25MG-05		●	105	150	25	25	26.1	150	25	25	MGM.5		
GFKR-2525-(145/200)-T25MG-05		●	145	200	25	25	26.1	150	25	25	MGM.5		

● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

Kesme ve Kanal İşleme / Parting & Grooving

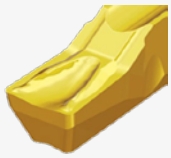
TD...

Ürün Görseli *Product Image*	ISO	Vc (m/dk) *Vc (m/min)*	P				M			K		N	S	U		Boyutlar (mm) *Dimensions (mm)*					Teknik Resim *Technical Drawing*
			(120-240)	(120-240)	(90-210)	(90-120)	(80-200)	(80-200)	(70-160)	(140-260)	120-220	(80-300)	(120-250)								
	Uç Kodu *Insert Code*	Fn(mm/dev) *Fn (mm/rev)*	TC1115	TC2115	TC1125	TC2125	TP4320	TP3320	TP4330	TC2210	TC2215	TN7501	TP2410	TP2625	TP4630	INSL	RE	CDX	BW	CW	
	TDC2	0.05 - 0.18					○		○					●	●	20	0.20	19	1.7	2.0	
	TDC3	0.07 - 0.25					○		○					●	●	20	0.20	19	2.4	3.0	
	TDC4	0.08 - 0.30					○		○					●	●	20	0.30	19	3.0	4.0	
	TDC5	0.09 - 0.34					○		○					●	●	25	0.30	24	4.0	5.0	
	TDJ2	0.04 - 0.12					○		○					●	●	20	0.20	19	1.7	2.0	
	TDJ3	0.04 - 0.16					○		○					●	●	20	0.20	19	2.4	3.0	
	TDJ4	0.05 - 0.18							○					●	●	20	0.30	19	3.0	4.0	
	TDT3.00E-0.40	0.07 - 0.15												●	●	20	0.40		2.25	3.0	
	TDT4.00E-0.40	0.09 - 0.18												●	●	20	0.40		3.05	4.0	
	TDT2E-1.0-RU	0.05 - 0.12												●	●	20	1.0		1.70	2.0	
	TDT3E-1.5-RU	0.03 - 0.10					○		○					●	●	20	1.50		2.40	3.0	
	TDT4E-2.0-RU	0.09 - 0.18					○		○					●	●	20	2.0		3.0	4.0	
	TDXU 2E-0.3	0.03 - 0.20												●	●	20	0.30		1.7	2.0	
	TDXU 3E-0.3	0.07 - 0.22							○					●	●	20	0.30		2.2	3.0	
	TDXU 4E-0.4	0.08 - 0.27							○					●	●	20	0.40		3.0	4.0	
	TDXU 4E-0.8	0.08 - 0.27												●	●	20	0.80		3.0	4.0	

● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

Kesme ve Kanal İşleme / Parting & Grooving

TD...

Talaş Kırıcı Formu *Chipbreaker Form*	Talaş Kırıcı Özellikleri *Chipbreaker Features*
 TDC	C-tipi talaş kırıcıya sahip, çift taraflı kesici uçlar; çelik, alaşımlı çelik ve paslanmaz çeliklerin işlenmesinde orta-yüksek ilerleme değerlerinde, zor uygulamalar ve sert malzemelerde kanal açma ve koparma işlemleri için tasarlanmıştır. Double-ended inserts featuring a C-type chip breaker, designed for parting and grooving operations in hard materials and demanding applications, ensuring stable performance at medium to high feed rates when machining steel, alloy steel, and stainless steel.
 TDJ	TDJ (çift taraflı) J-tipi talaş kırıcıya sahip kesici uçlar; yumuşak malzemeler, borular, küçük çaplı ve ince cidarlı parçaların kanal açma ve koparma işlemleri için geliştirilmiş olup, düşük–orta ilerleme değerlerinde düşük kesme kuvveti ve minimum çapak oluşumu sağlar. TDJ (Double-ended) inserts with a J-type chip breaker are designed for parting and grooving of soft materials, tubes, small-diameter and thin-walled components, providing smooth cutting at low to medium feed rates with reduced cutting forces and minimal burr formation.
 TDT	T-tipi hassas çift taraflı kesici uçlar, yalnızca dış kanal açma operasyonları için tasarlanmış olup yüksek hassasiyet ve stabil işleme performansı sunar. Precision double-ended inserts specifically designed for external grooving operations, ensuring accurate machining and stable performance.
 TDXU	Çift taraflı, preslenmiş tip çok fonksiyonlu kesici uçlar; dış, iç ve alın kanal-tornalama operasyonlarında genel kullanım için ilk tercih çözüm olarak tasarlanmıştır. Double-ended, pressed-type multifunctional inserts, ideal as a first-choice solution for general-purpose external, internal, and face groove-turning applications.

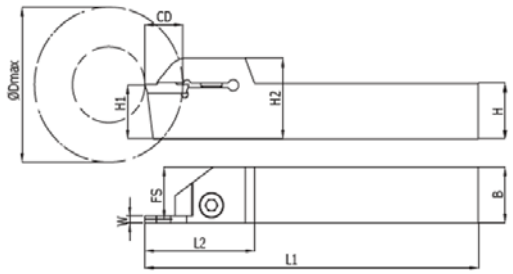
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

TD..

Dış Kanal Açma Takımları

External Grooving Toolholders



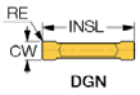
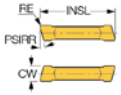


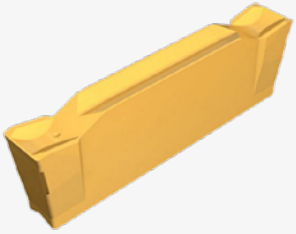
Takım Kodu *Order Code*	Stok Durumu *Stock Availability*		Takım Ölçüleri (mm) *Tool Dimensions (mm)*										Kesici Uç *Insert Type*	Yedek Parçalar *Spare Parts*	
	L	R	Dmax	W	H	B	FS	L1	L2	H1	H2	Tmax		Vida *Screw*	Anahtar *Allen Key*
GETR-1212-T14TD-02		●	62	2	12	12	11	90	31	12	24	14	TD.2	M5X16	A4
GETR-1212-T14TD-03		●	62	3	12	12	10.5	90	31	12	24	14	TD.3		
GETR-1616-T18TD-02		●	62	2	16	16	15	125	41	16	28.5	18	TD.2	M8X27	
GETR-1616-T18TD-03		●	62	3	16	16	14.5	125	41	18	28.5	18	TD.3		
GETR-1616-T18TD-04		●	62	4	16	16	14	125	41	16	28.5	18	TD.4		
GETR-2020-T18TD-02		●	62	2	20	20	19	125	41	20	28.5	18	TD.2		
GETR-2020-T18TD-03		●	62	3	20	20	18.5	125	41	20	28.5	18	TD.3		
GETR-2020-T18TD-04		●	62	4	20	20	18	125	41	20	28.5	18	TD.4		
GETR-2525-T21TD-02		●	62	2	25	25	24	150	45	25	35	21	TD.2		
GETR-2525-T21TD-03		●	62	3	25	25	23.5	150	45	25	35	21	TD.3		
GETR-2525-T21TD-04		●	62	4	25	25	23	150	45	25	35	21	TD.4		
GETR-2525-T21TD-05		●	62	5	25	25	22.5	150	45	25	35	21	TD.5		
GETR-3232-T23TD-03		●	62	3	32	32	30.5	170	45	32	42	23	TD.3		
GETR-3232-T23TD-04		●	62	4	32	32	30	170	45	32	42	23	TD.4		

● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

Kesme ve Kanal İşleme / Parting & Grooving

DGN...

Ürün Görseli *Product Image*	ISO	Vc (m/dk) *Vc (m/min)*	P				M			K		N	S	U		Boyutlar (mm) *Dimensions (mm)*			Teknik Resim *Technical Drawing*
			(120-240)	(120-240)	(90-210)	(90-210)	(80-200)	(80-200)	(70-160)	(140-260)	(120-220)	(80-300)	(120-250)						
	Uç Kodu *Insert Code*	Fn(mm/dev) *Fn (mm/rev)*	TC1115	TC2115	TC1125	TC2125	TP4320	TP3320	TP4330	TC2210	TC2215	TN7501	TP2410	TP2625	TP4630	INSL	CW	RE	
	DGN2002C	0.05 - 0.16												●		19.9	2.0	0.2	
	DGN2202C	0.05 - 0.16												●		19.8	2.2	0.2	
	DGN2202J	0.04 - 0.12												●		19.8	2.2	0.2	
	DGN3102C	0.1 - 0.25												●		20.1	3.1	0.2	
	DGN4003C	0.1 - 0.3												●		18.8	4.0	0.3	
	DGR2202C-6D	0.04 - 0.12												●		20.8	2.2	0.2	
	DGR3102C-6D	0.08 - 0.18												●		21	3.1	0.2	

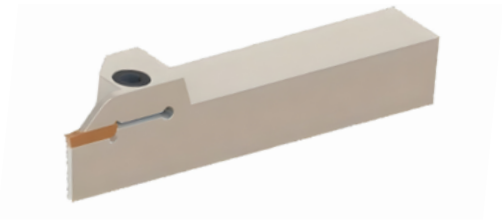
Talaş Kırıcı Formu *Chipbreaker Form*	Talaş Kırıcı Özellikleri *Chipbreaker Features*
 J-FORM	J talaş kırıcı, J tipi pozitif geometrinin avantajlarını güçlendirilmiş negatif ön kenar yapısıyla birleştirir. Düşük ve orta ilerlemelerde yumuşak malzemelerin işlenmesi için optimize edilmiştir ve stabil bir kesme performansı sunar. The J chipformer combines the positive geometry of the J-type with a strengthened negative front edge. It is optimized for machining soft materials, delivering stable performance at low to medium feed rates.
 C-FORM	C tipi talaş kırıcı; kanal açma ve kesme işlemlerinde, sert malzemeler ve zorlu uygulamalar için tasarlanmıştır. Pozitif talaş açısı, tek hazneli yapı ve negatif kenar ile güçlendirilmiş omuzlara sahiptir. Orta–yüksek ilerlemelerde stabil ve güvenilir kesme performansı sunar. Designed for parting bars, hard materials, and demanding applications. Features a positive rake geometry with a single pocket, combined with a negative land and reinforced shoulders. Suitable for medium to high feed rates and stable cutting performance under tough conditions.

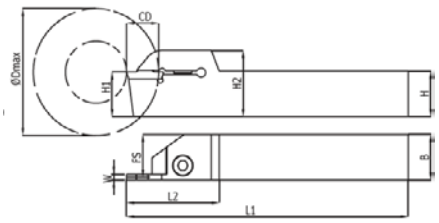
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

DGN..

Dış Kanal Açma Takımları

External Grooving Toolholders





Takım Kodu *Order Code*	Stok Durumu *Stock Availability*		Takım Ölçüleri (mm) *Tool Dimensions (mm)*									Kesici Uç *Insert Type*	Yedek Parçalar *Spare Parts*	
	L	R	Dmax	W	H	B	FS	L1	L2	H1	H2	CD / Tmax	Vida *Screw*	Anahtar *Allen Key*
GEIR/L-1212-T14DG-02	●	●	62	2	12	12	11	90	31	12	24	14	DGN-2	M5X16	A4
GEIR/L-1212-T14DG-03	●	●	62	3	12	12	10.5	90	31	12	24	14	DGN-3		
GEIR/L-1616-T18DG-02	●	●	62	2	16	16	15	125	43	16	28.5	18	DGN-2	M8X27	
GEIR/L-1616-T18DG-03	●	●	62	3	16	16	14.5	125	43	16	28.5	18	DGN-3		
GEIR/L-1616-T18DG-04	●	●	62	4	16	16	14	125	43	16	28.5	18	DGN-4		
GEIR/L-2020-T18DG-02	●	●	62	2	20	20	19	125	43	20	28.5	18	DGN-2		
GEIR/L-2020-T18DG-03	●	●	62	3	20	20	18.5	125	43	20	28.5	18	DGN-3		
GEIR/L-2020-T18DG-04	●	●	62	4	20	20	18	125	43	20	28.5	18	DGN-4		
GEIR/L-2020-T22DG-05		●	62	5	20	20	17.5	125	43	20	28.5	22	DGN-5		
GEIR/L-2525-T22DG-02	●	●	62	2	25	25	24	150	47	25	35	22	DGN-2		
GEIR/L-2525-T22DG-03	●	●	62	3	25	25	23.5	150	47	25	35	22	DGN-3		
GEIR/L-2525-T22DG-04	●	●	62	4	25	25	23	150	47	25	35	22	DGN-4		
GEIR/L-2525-T22DG-05	●	●	62	5	25	25	22.5	150	47	25	35	22	DGN-5		
GEIR/L-2525-T22DG-06		●	62	6	25	25	22.5	150	47	25	35	22	DGN-6		
GEIR/L-3232-T22DG-03		●	62	3	32	32	30.5	170	47	32	42	22	DGN-3		
GEIR/L-3232-T22DG-04		●	62	4	32	32	30	170	47	32	42	22	DGN-4		
GEIR/L-3232-T22DG-05		●	62	5	32	32	29.5	170	47	32	42	22	DGN-5		
GEIR/L-3232-T22DG-06		●	62	6	32	32	29.5	170	47	32	42	22	DGN-6		
GEIR/L-2525-T40DG-03		●	62	3	25	25	23.5	150	47	25	35	40	DGN-3		
GEIR/L-2525-T40DG-04		●	62	4	25	25	23	150	47	25	35	40	DGN-4		

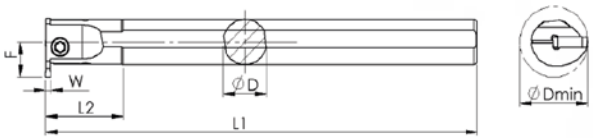
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

DGN..

İç Kanal Açma Takımları

Internal Grooving Toolholders



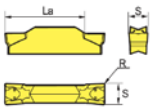


Takım Kodu *Order Code*	Stok Durumu *Stock Availability*		Takım Ölçüleri (mm) *Tool Dimensions (mm)*							Kesici Uç *Insert Type*	Yedek Parçalar *Spare Parts*	
	L	R	D	D min	F	L1	L2	W	Tmax		Vida *Screw*	Anahtar *Allen Key*
GIIR/L 2025-T4.5DG-02		●	20	25	14	200	30	2	4.5	DGN-2	M4X12	A3
GIIR/L 2025-T4.5DG-03		●	20	25	14	200	30	3	4.5	DGN-3		
GIIR/L 2025-T4.5DG-04		●	20	25	14	200	30	4	4.5	DGN-4		
GIIR/L 2525-T06DG-02		●	25	32	18.5	250	40	2	6	DGN-2	M6X16	A5
GIIR/L 2532-T06DG-03		●	25	32	18.5	250	40	3	6	DGN-3		
GIIR/L 2532-T06DG-04		●	25	32	18.5	250	40	4	6	DGN-4		
GIIR/L 4132-T8.5DG-02		●	32	41	24.5	250	45	2	8.5	DGN-2	M8X27	A4
GIIR/L 4132-T8.5DG-03		●	32	41	24.5	250	45	3	8.5	DGN-3		
GIIR/L 4132-T8.5DG-04		●	32	41	24.5	350	45	4	8.5	DGN-4		

● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

Kesme ve Kanal İşleme / Parting & Grooving

ZT...

Ürün Görseli *Product Image*	ISO	Vc (m/dk) *Vc (m/min)*	P				M			K		N	S	U		Boyutlar (mm) *Dimensions (mm)*			Teknik Resim *Technical Drawing*
			(120-240)	(120-240)	(90-210)	(90-210)	(80-200)	(80-200)	(70-160)	(140-260)	(120-220)	(80-300)	(120-250)						
	Uç Kodu *Insert Code*	Fn(mm/dev) *Fn (mm/rev)*	TC1115	TC2115	TC1125	TC2115	TP4320	TP3320	TP4330	TC2210	TC2215	TN7501	TP2410	TP2620	TP4630	La	S	RE	
	ZTED02503-MG	0.05 - 0.2												○	○	17	2.5	0.3	
	ZTFD0303-MG	0.05 - 0.2												○	Δ	17	3.0	0.3	
	ZTGD0404-MG	0.20 - 0.6												○	Δ	22	4.0	0.4	
	ZTHD0504-MG	0.05 - 0.2												Δ	Δ	22	5.0	0.4	
	ZTKD0608-MG	0.05 - 0.7												Δ	Δ	22	6.0	0.8	

Talaş Kırıcı Formu *Chipbreaker Form*	Talaş Kırıcı Özellikleri *Chipbreaker Features*
 MG	MG talaş kırıcı; kanal açma, kesme ve tornalama operasyonları için uygun, çok yönlü bir geometridir. Orta ilerleme aralığında stabil talaş kontrolü sunar ve geniş bir uygulama alanına hitap eder. Pozitif kesme geometrisi sayesinde akıcı ve güvenilir bir kesme performansı sağlar. The MG chipformer is designed for both parting, grooving and turning operations. Its versatile geometry ensures stable chip control at medium feed rates, making it suitable for a wide range of applications. The positive cutting geometry provides smooth cutting action and reliable performance.

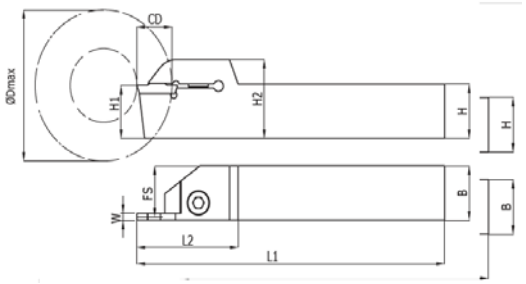
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item Δ Özel Sipariş - Special order

ZT..

Dış Kanal Açma Takımları

External Grooving Toolholders





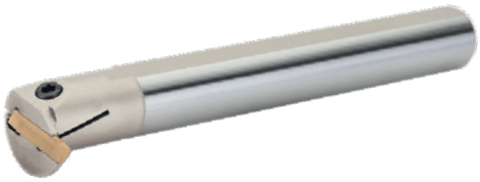
Takım Kodu *Order Code*	Stok Durumu *Stock Availability*		Takım Ölçüleri (mm) *Tool Dimensions (mm)*										Kesici Uç *Insert Type*	Yedek Parçalar *Spare Parts*	
	L	R	Dmax	W	H	B	FS	L1	L2	H1	H2	CD / Tmax		Vida *Screw*	Anahtar *Allen Key*
GEZR/L-1616-T17ZT-02	●	●	62	2	16	16	15	125	41	16	24.50	17	ZT.D-2	M8X27	A4
GEZR/L-1616-T18ZT-03	●	●	62	3	16	16	14.50	125	41	16	24.50	18	ZT.D-3		
GEZR/L-1616-T18ZT-04	●	●	62	4	16	16	14	125	41	16	24.50	18	ZT.D-4		
GEZR/L-1616-T18ZT-05	●	●	62	5	16	16	13.50	125	41	16	24.50	18	ZT.D-5		
GEZR/L-2020-T17ZT-2.5	●	●	62	2.5	20	20	18.75	125	41	20	28.50	17	ZT.D-2.5		
GEZR/L-2020-T22ZT-2.5		●	62	2.5	20	20	18.75	125	41	20	28.50	22	ZT.D-2.5		
GEZR/L-2020-T17ZT-02	●	●	62	2	20	20	19	125	41	20	28.50	17	ZT.D-2		
GEZR/L-2020-T18ZT-03	●	●	62	3	20	20	18.50	125	41	20	28.50	18	ZT.D-3		
GEZR/L-2020-T18ZT-04	●	●	62	4	20	20	18	125	41	20	28.50	18	ZT.D-4		
GEZR/L-2020-T21ZT-05	●	●	62	5	20	20	17.50	125	41	20	28.50	21	ZT.D-5		
GEZR/L-2020-T21ZT-06		●	62	6	20	20	17	125	41	20	28.50	21	ZT.D-6		
GEZR/L-2525-T21ZT-2.5	●	●	62	2.5	25	25	23.75	150	45	25	35	21	ZT.D-2.5		
GEZR/L-2525-T21ZT-02	●	●	62	2	25	25	24	150	45	25	35	21	ZT.D-2		
GEZR/L-2525-T21ZT-03	●	●	62	3	25	25	23.50	150	45	25	35	21	ZT.D-3		
GEZR/L-2525-T21ZT-04	●	●	62	4	25	25	23	150	45	25	35	21	ZT.D-4		
GEZR/L-2525-T22ZT-05	●	●	62	5	25	25	22.50	150	45	25	35	22	ZT.D-5		
GEZR/L-2525-T22ZT-06		●	62	6	25	25	22	150	45	25	35	22	ZT.D-6		
GEZR/L-3232-T25ZT-04		●	62	4	32	32	30	170	45	32	42	25	ZT.D-4		
GEZR/L-3232-T25ZT-05		●	62	5	32	32	29.50	170	45	32	42	25	ZT.D-5		
GEZR/L-3232-T25ZT-06		●	62	6	32	32	29	170	45	32	42	25	ZT.D-6		

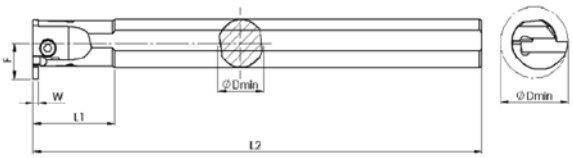
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

ZT..

İç Kanal Açma Takımları

Internal Grooving Toolholders



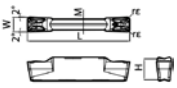


Takım Kodu *Order Code*	Stok Durumu *Stock Availability*		Takım Ölçüleri (mm) *Tool Dimensions (mm)*							Kesici Uç *Insert Type*	Yedek Parçalar *Spare Parts*	
	L	R	D	D min	F	L1	L2	W	Tmax		Vida *Screw*	Anahtar *Allen Key*
GIZR/L-2016-T04ZT-02		●	16	20	12	180	2	4	4	ZT.D-2	M4X10	A3
GIZR/L-2520-T4.5ZT-02		●	20	25	14.5	200	2	4	4,5	ZT.D-2	M4X12	
GIZR/L-2520-T4.5ZT-03		●	20	25	14.5	200	3	1.5	4.5	ZT.D-3		
GIZR/L-3225-T06ZT-02		●	25	32	18.5	250	2	4	6	ZT.D-2	M6X16	A5
GIZR/L-3225-T06ZT-03		●	25	32	18.5	250	3	2	6	ZT.D-3		
GIZR/L-3225-T06ZT-04		●	25	32	18.5	250	4	2	6	ZT.D-4		
GIZR/L-4232-T08ZT-03		●	32	42	25	250	3	2	8	ZT.D-3	M8X27	A4
GIZR/L-4232-T09ZT-04		●	32	42	25	250	4	3	9	ZT.D-4		
GIZR/L-5240-T10ZT-05		●	40	52	30	350	5	3	10	ZT.D-5		

● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

Kesme ve Kanal İşleme / Parting & Grooving

GDM...

Ürün Görseli *Product Image*	ISO	Vc (m/dk) *Vc (m/min)*	P				M			K		N	S	U		*Boyutlar (mm) Dimensions (mm)*				Teknik Resim *Technical Drawing*
			(120-240)	(120-240)	(90-210)	(90-120)	(80-200)	(80-200)	(70-160)	(140-260)	(120-220)	(80-300)	(120-250)							
	Uç Kodu *Insert Code*	Fn(mm/dev) *Fn (mm/rev)*	TC1115	TC2115	TC1125	TC2125	TP4320	TP3320	TP4330	TC2210	TC2215	TN7501	TP2410	TP2625	TP4630	L	RE	M	W	
	GDM2020N-020PM	0.06 - 0.12												Δ	Δ	20	0.20	1.50	2.0	
	GDM2520N-020PM	0.06 - 0.12												Δ	Δ	20	0.20	1.94	2.5	
	GDM3020N-025PM	0.08 - 0.16												Δ	Δ	20	0.25	2.28	3.0	
	GDM4020N-040PM	0.10 - 0.22												○	○	20	0.40	3.30	4.0	
	GDM5020N-080PM	0.15 - 0.30												○	○	20	0.80	4.19	5.0	

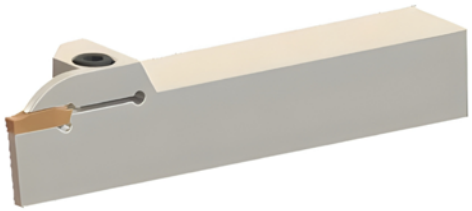
Talaş Kırıcı Formu *Chipbreaker Form*	Talaş Kırıcı Özellikleri *Chipbreaker Features*
 PM	PM talaş kırıcı, kesme operasyonları için geliştirilmiş genel amaçlı bir geometridir. Orta ilerleme aralığında stabil kesme performansı sunar ve farklı malzeme gruplarında güvenilir talaş kontrolü sağlar. Dengeli kesme kuvvetleri sayesinde geniş bir uygulama alanına sahiptir. The PM chipbreaker is a general-purpose geometry designed for parting-off operations. It provides stable cutting performance at medium feed rates and ensures reliable chip control across wide range of materials. Balanced cutting forces make it suitable for a wide range of applications.

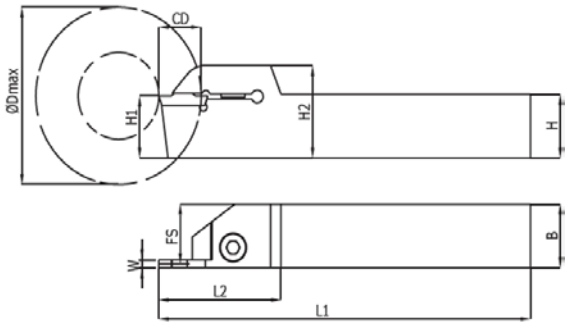
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

GDM..

Dış Kanal Açma Takımları

External Grooving Toolholders





Takım Kodu *Order Code*	Stok Durumu *Stock Availability*		Takım Ölçüleri (mm) *Tool Dimensions (mm)*										Kesici Uç *Insert Type*	Yedek Parçalar *Spare Parts*	
	L	R	Dmax	W	H	B	FS	L1	L2	H1	H2	CD / Tmax		Vida *Screw*	Anahtar *Allen Key*
GEYR/L-1212-T12GD-02		●	62	2	12	12	11	125	41	12	20.5	12	GDM-2	M5X16	A4
GEYR/L-1212-T12GD-03		●	62	3	12	12	10.5	125	41	12	20.5	12	GDM-3		
GEYR/L-1616-T17GD-02	●	●	62	2	16	16	15	125	41	16	24.5	17	GDM-2	M8X27	
GEYR/L-1616-T20GD-03	●	●	62	3	16	16	14.5	125	41	16	24.5	20	GDM-3		
GEYR/L-2020-T17GD-02	●	●	62	2	20	20	19	125	41	20	28.5	17	GDM-2		
GEYR/L-2020-T20GD-03	●	●	62	3	20	20	18.5	125	43	20	28.5	20	GDM-3		
GEYR/L-2525-T10GD-02		●	62	2	25	25	24	150	45	25	35	10	GDM-2		
GEYR/L-2525-T21GD-02	●	●	62	2	25	25	24	150	45	25	35	21	GDM-2		
GEYR/L-2525-T21GD-03	●	●	62	3	25	25	23.5	150	45	25	35	21	GDM-3		
GEYR/L-2525-T25GD-03		●	62	3	25	25	23.5	150	45	25	35	25	GDM-3		
GEYR/L-2525-T25GD-04		●	62	4	25	25	23	150	45	25	35	25	GDM-4		

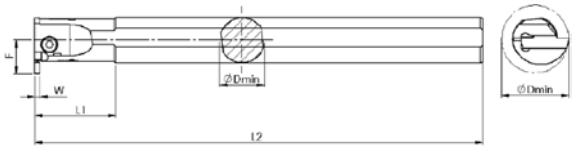
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

GDM..

İç Kanal Açma Takımları

Internal Grooving Toolholders





Takım Kodu *Order Code*	Stok Durumu *Stock Availability*		Takım Ölçüleri (mm) *Tool Dimensions (mm)*							Kesici Uç *Insert Type*	Yedek Parçalar *Spare Parts*	
	L	R	D	D min	F	L1	L2	W	Tmax		Vida *Screw*	Anahtar *Allen Key*
GIYR/L-1816-T4.5GD-02		●	16	18	9.5	180	25	2	4.5	GDM-2	M4X12	A3
GIYR/L-1816-T4.5GD-03		●	16	18	9.5	180	25	3	4.5	GDM-3		
GIYR/L-2520-T4GD-02		●	20	25	14	200	30	2	4	GDM-2		
GIYR/L-2520-T4GD-03		●	20	25	14	200	30	3	4	GDM-3		
GIYR/L-2520-T5.5GD-04		●	20	25	14	200	30	4	5.5	GDM-4		
GIYR/L-2520-T4GD-02		●	20	25	14	200	30	2	4	GDM-2		
GIYR/L-2520-T4GD-03		●	20	25	14	200	30	3	4	GDM-3		
GIYR/L-3125-T5GD-02		●	25	31	18	250	35	2	5	GDM-2	M6X16	A5
GIYR/L-3125-T5.5GD-03		●	25	31	18	250	35	3	5.5	GDM-3		
GIYR/L-3125-T12GD-04		●	25	31	24.5	250	35	4	12	GDM-4		
GIYR/L-3125-T6GD-04		●	25	31	18	250	35	4	6	GDM-4		
GIYR/L-4232-T9GD-03		●	32	42	25	250	35	3	9	GDM-3	M8X27	A4
GIYR/L-4232-T9GD-04		●	32	42	25	250	35	4	9	GDM-4		
GIYR/L-4232-T12GD-04		●	32	42	28	350	60	4	12	GDM-4		
GIYR/L-5240-T10GD-04		●	40	52	30	350	60	4	10	GDM-4		

GER/GIR...

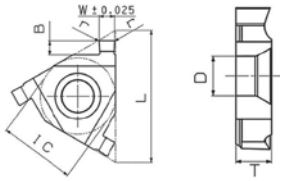
GER-GIL Kodlama Sistemi / *GER-GIL Coding System*

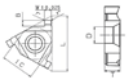
1	2	3	4	5		6	7
16	G	E	R	0.50	-	005	TP4625
Boyut *Size* 16mm 11mm	*Kanal Açma* *Grooving*	Tip E: Dış I: İç *Type* *E:External* *I:Internal*	Yön R: Sağ L: Sol *Direction* *R: Right* *L: Left*	Kesme Kenar Genişliği *Cutting Edge Width* 0.05 -1.0mm		*Köşe Radyüs* *Corner Radius* 005 : R0.05 010 : R0.10	Kalite *Grade*

● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

Kesme ve Kanal İşleme / Parting & Grooving

GER/GIR...

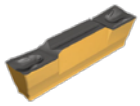
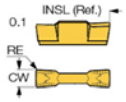


Ürün Görseli *Product Image*	ISO	Vc (m/dk) *Vc (m/min)*	P				M			K		N	S	U			Boyutlar (mm) *Dimensions (mm)*							Teknik Resim Technical Drawing
			(120-240)	(120-240)	(90-210)	(90-210)	(80-200)	(80-200)	(70-160)	(140-260)	(120-220)	(80-300)	(120-250)											
	Uç Kodu *Insert Code*	Fn(mm/dev) *Fn (mm/rev)*	TC1115	TC2115	TC1125	TC2125	TP4320	TP3320	TP4330	TC2210	TC2215	TN7501	TP2410	TP2625	TP4625	TP4630	L	IC	T	D	W	B	r	
	11GER/GIR050-005	0.03 - 0.06													○		11	6.35	3.18	3.1	0.5	1.0	0.05	
	11GER/GIR060-005	0.03 - 0.07													○		11	6.35	3.18	3.1	0.6	1.0	0.05	
	11GER/GIR070-005	0.04 - 0.08													○		11	6.35	3.18	3.1	0.7	1.2	0.05	
	11GER/GIR080-005	0.04 - 0.09													○		11	6.35	3.18	3.1	0.8	1.2	0.05	
	11GER/GIR090-005	0.05 - 0.10													○		11	6.35	3.18	3.1	0.9	1.2	0.05	
	11GER/GIR100-010	0.05 - 0.10													○		11	6.35	3.18	3.1	1.0	1.5	0.1	
	11GER/GIR110-010	0.05 - 0.10													○		11	6.35	3.18	3.1	1.1	1.5	0.1	
	11GER/GIR120-010	0.06 - 0.12													○		11	6.35	3.18	3.1	1.2	1.5	0.1	
	11GER/GIR130-010	0.06 - 0.12													○		11	6.35	3.18	3.1	1.3	1.5	0.1	
	11GER/GIR140-010	0.07 - 0.14													○		11	6.35	3.18	3.1	1.4	1.5	0.1	
	11GER/GIR150-010	0.07 - 0.15													○		11	6.35	3.18	3.1	1.5	1.5	0.1	
	11GER/GIR160-010	0.08 - 0.16													○		11	6.35	3.18	3.1	1.6	1.4	0.1	
	11GER/GIR170-010	0.08 - 0.16													○		11	6.35	3.18	3.1	1.7	1.4	0.1	
	11GER/GIR180-010	0.08 - 0.18													○		11	6.35	3.18	3.1	1.8	1.3	0.1	
	11GER/GIR200-010	0.09 - 0.20													○		11	6.35	3.18	3.1	2.0	1.2	0.1	
	16GER/GIR050-005	0.03 - 0.06													●		16	9.525	3.65	4	0.5	1.6	0.05	
	16GER/GIR060-005	0.03 - 0.07													●		16	9.525	3.65	4	0.6	1.6	0.05	
	16GER/GIR070-005	0.04 - 0.08													●		16	9.525	3.65	4	0.7	1.6	0.05	
	16GER/GIR075-005	0.04 - 0.08													●		16	9.525	3.65	4	0.75	1.6	0.05	
	16GER/GIR080-005	0.04 - 0.09													●		16	9.525	3.65	4	0.8	1.6	0.05	
	16GER/GIR095-005	0.05 - 0.10													●		16	9.525	3.65	4	0.95	1.6	0.05	
	16GER/GIR100-010	0.05 - 0.10													○		16	9.525	3.65	4	1.0	1.8	0.1	
	16GER/GIR110-010	0.05 - 0.11													●		16	9.525	3.65	4	1.1	1.8	0.1	
	16GER/GIR115-010	0.05 - 0.11													●		16	9.525	3.65	4	1.15	1.8	0.1	
	16GER/GIR120-010	0.06 - 0.12													●		16	9.525	3.65	4	1.2	1.8	0.1	
	16GER/GIR130-010	0.06 - 0.12													●		16	9.525	3.65	4	1.3	1.8	0.1	
	16GER/GIR140-010	0.07 - 0.15													○		16	9.525	3.65	4	1.4	1.8	0.1	
	16GER/GIR145-010	0.07 - 0.15													○		16	9.525	3.65	4	1.45	1.8	0.1	
	16GER/GIR150-010	0.07 - 0.15													○		16	9.525	3.65	4	1.5	1.8	0.1	
	16GER/GIR160-010	0.08 - 0.16													○		16	9.525	3.65	4	1.6	1.8	0.1	
	16GER/GIR175-010	0.08 - 0.18													○		16	9.525	3.65	4	1.75	1.8	0.1	
	16GER/GIR180-010	0.08 - 0.18													○		16	9.525	3.65	4	1.8	1.8	0.1	
	16GER/GIR200-010	0.09 - 0.20													●		16	9.525	3.65	4	2.0	1.8	0.1	
	16GER/GIR215-010	0.10 - 0.22													○		16	9.525	3.65	4	2.15	2.0	0.2	
	16GER/GIR225-020	0.10 - 0.22													○		16	9.525	3.65	4	2.25	2.0	0.2	
	16GER/GIR230-020	0.10 - 0.23													○		16	9.525	3.65	4	2.3	2.0	0.2	
	16GER/GIR250-020	0.12 - 0.26													○		16	9.525	3.65	4	2.5	2.0	0.2	
	16GER/GIR265-020	0.12 - 0.28													○		16	9.525	3.65	4	2.65	2.0	0.2	
	16GER/GIR300-020	0.15 - 0.32													○		16	9.525	3.65	4	3.0	2.0	0.2	

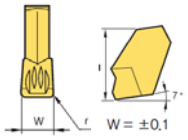
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

Kesme ve Kanal İşleme / Parting & Grooving

GRIP...

Ürün Görseli *Product Image*	ISO	Vc (m/dk) *Vc (m/min)*	P				M			K		N	S	U		Boyutlar (mm) *Dimensions (mm)*			Teknik Resim *Technical Drawing*
			(120-240)	(120-240)	(90-210)	(90-210)	(80-200)	(80-200)	(70-160)	(140-260)	(120-220)	(80-300)	(120-250)						
	Uç Kodu *Insert Code*	Fn(mm/dev) *Fn (mm/rev)*	TC1115	TC2115	TC1125	TC2125	TP4320	TP3320	TP4330	TC2210	TC2215	TN7501	TP2410	TP2625	TP4630	INSL	CW	RE	
	GRIP3003Y	0.07 - 0.19												Δ		15.8	3.0	0.3	
	GRIP4004Y	0.09 - 0.24												Δ		19	4.0	0.4	
	GRIP5005Y	0.11 - 0.30												Δ		19	5.0	0.5	

SPB...

Ürün Görseli *Product Image*	ISO	Vc (m/dk) *Vc (m/min)*	P				M			K		N	S	U		Boyutlar (mm) *Dimensions (mm)*			Teknik Resim *Technical Drawing*
			(120-240)	(120-240)	(90-210)	(90-210)	(80-200)	(80-200)	(70-160)	(140-260)	(120-220)	(80-300)	(120-250)						
	Uç Kodu *Insert Code*	Fn(mm/dev) *Fn (mm/rev)*	TC1115	TC2115	TC1125	TC2125	TP4320	TP3320	TP4330	TC2210	TC2215	TN7501	TP2410	TP2625	TP4630	W	l	r	
	SPB 200	0.05 - 0.15	●										●			2.2	9.3	0.2	
	SPB 300	0.05 - 0.15	●										●			3.1	11.3	0.2	
	SPB 400	0.05 - 0.15	●										●			4.1	11.3	0.25	
	SPB 500	0.10 - 0.40	●										●			5.1	11.4	0.3	
	SPB 600	0.12 - 0.50	●										○			6.4	11.4	0.35	

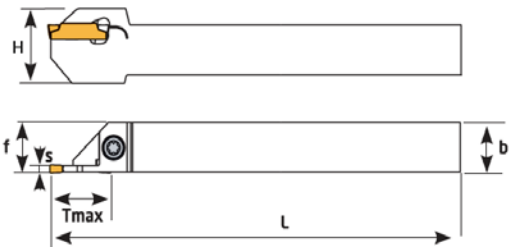
● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

MGMN..

Kesme Laması

Cutting Blades

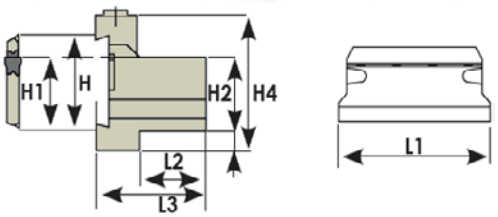
Order Code	Dimensions (mm)				Insert
	H	b	s	L	
EMB-232	32	25	2	150	MGMN 200
EMB-332	32	25	2,45	150	MGMN 300
EMB-432	32	25	3,45	150	MGMN 400



Lama Kütüğü

Block for Blades

Order Code	Dimensions (mm)					
	H	H1	H2	L1	L2	L3
ETB-2026	26	21,4	20	87	19	33
ETB-2526	26	24,4	25	110	20	34
ETB-2032	32	25	20	110	19	35
ETB-2532	32	25	25	110	20	36
ETB-3232	32	25	32	110	28	44

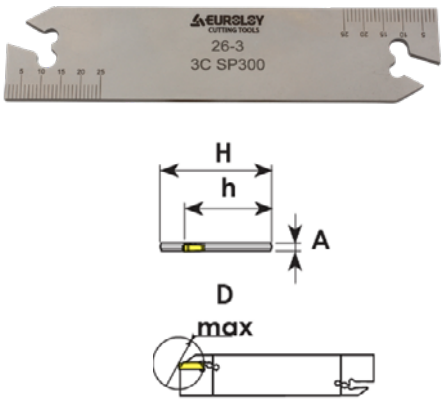


SPB..

Kesme Laması

Cutting Blades

Order Code	H	A	L	Insert Size	h	Insert	Key
ESB 226	26	1.6	110	2	21	SPB 200	ESW 50L
ESB 326	26	2.45	110	3	21.40	SPB 300	
ESB 332	32	2.45	150	3	25	SPB 300	
ESB 426	26	3.45	110	4	21.40	SPB 400	
ESB 432	32	3.45	150	4	25	SPB 400	
ESB 532	32	4	150	5	25	SPB 500	



● Stok ürün - Stock item ○ Stok dışı ürün - Non Stock item △ Özel Sipariş - Special order

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