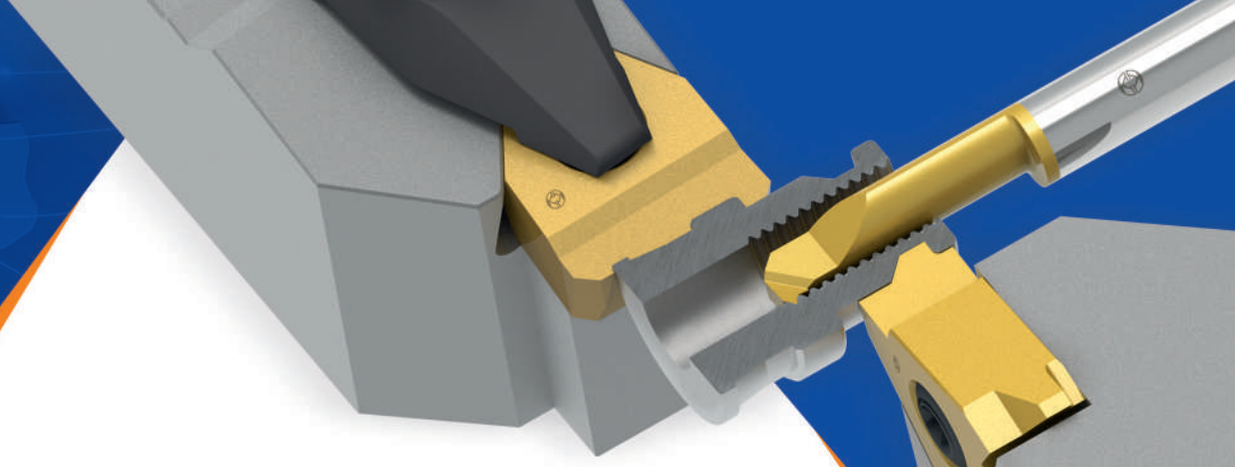

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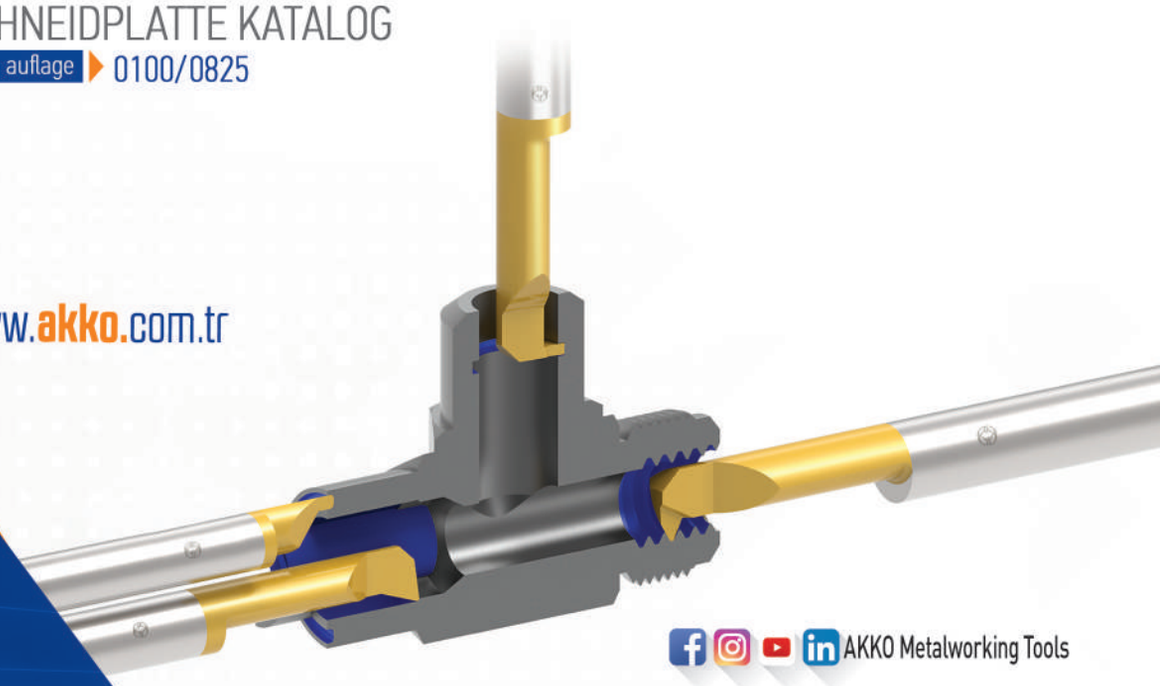

AKKO Metalworking Tools

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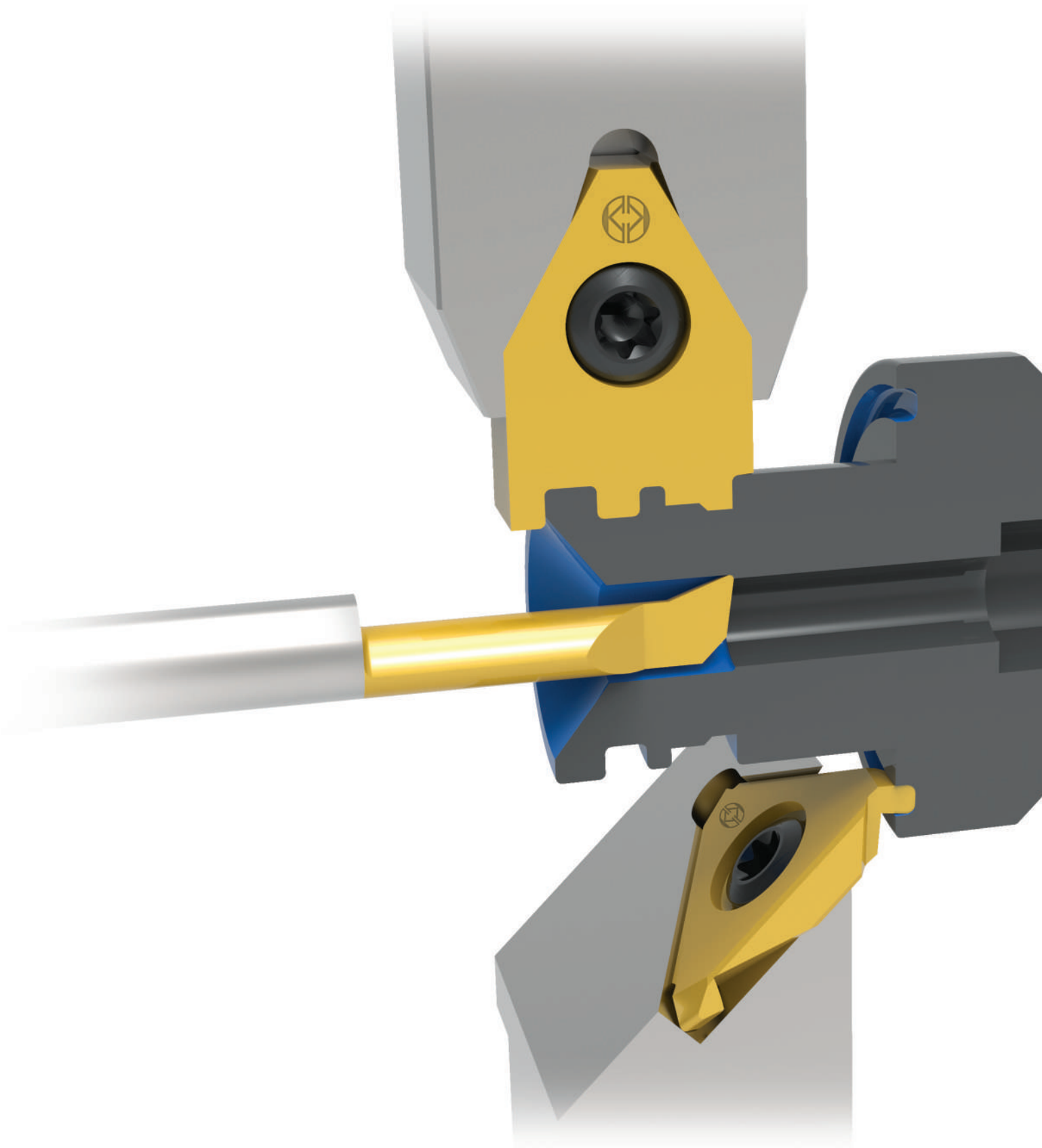

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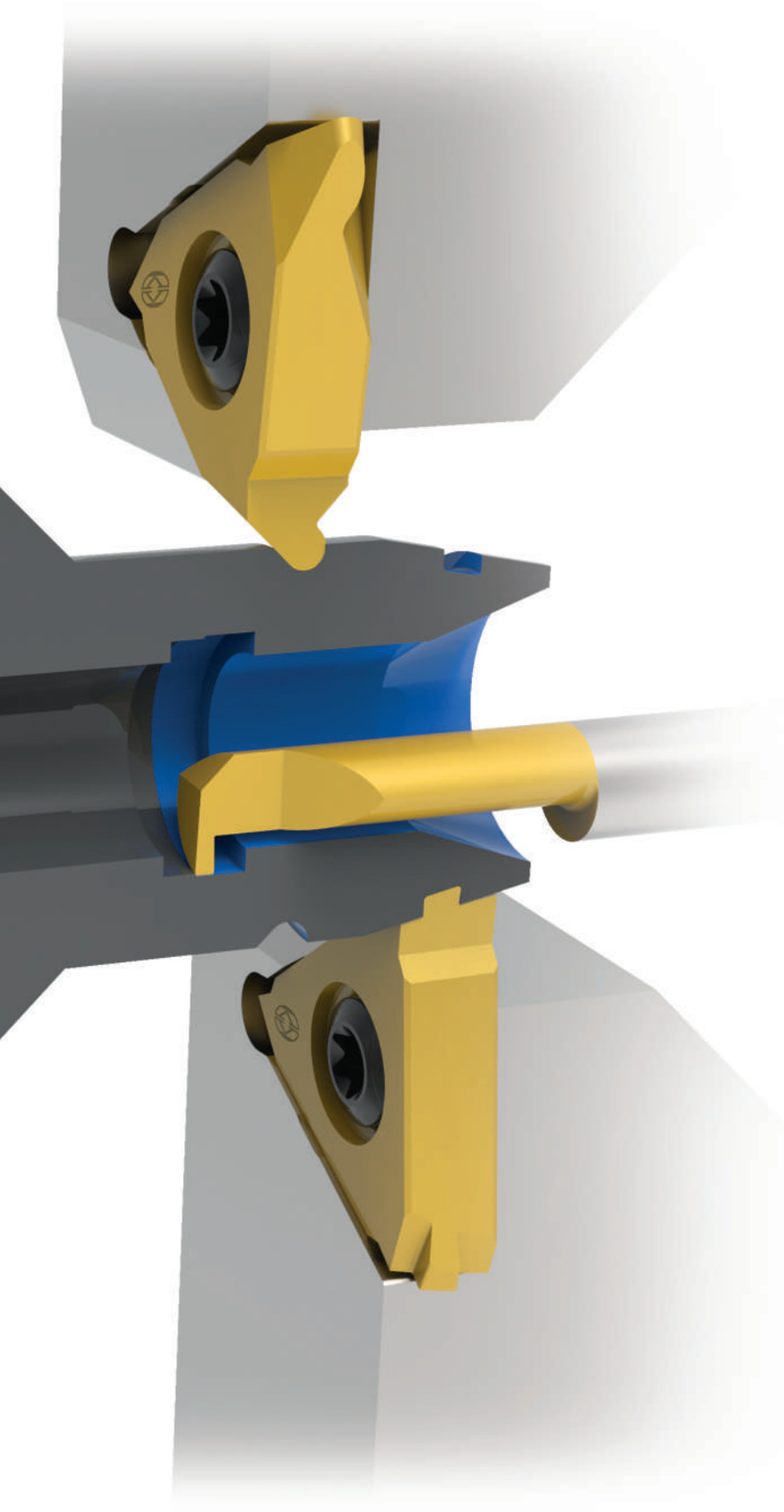

1986 yılında Abdullah KARAKUŞ tarafından kurulan AKKO Makina Sanayi ve Ticaret A.Ş. Tornalama Takımları, Diş ve Kanal Açma Takımları, Delik Delme Takımları, Frezeleme Takımları ve talebe yönelik Özel Takımlar, Monoblok ve Tutucular ile Profil Uçlar üretmektedir. Şu an 40.000m²'ye yakın bir alanda Türkiye, Japonya, Almanya, İsviçre gibi ülkelerin ürettikleri son teknoloji tezgah ve ekipmanlarıyla yıllık 750.000 adet üretim kapasitesiyle, standart 10.000 çeşit takım üretimi ve 70.000 adet profil uç üretimi yapmaktadır. Avrupa, Asya, Afrika, Güney Amerika, Kuzey Amerika ve Orta Doğu kıtalarında şimdilik düzenli olarak 90 ülkeye ürün sevkiyatına devam etmektedir. Minimum 300.000 adet üretilmiş ürün stoklarında mevcut bulunmaktadır. Firma için özel üretilen çelik hammadde işleme girer ve bütün üretim süreci kendi bünyesinde gerçekleşmektedir. Çeliğin işlenmesi, ısıl işlemi, üzerindeki kaplama ve her türlü üretim operasyonları bir entegre tesis olan AKKO'da yapılmaktadır.

We as AKKO Makina Sanayi ve Ticaret A.Ş. which were founded by Abdullah KARAKUŞ in 1986, produce Turning Tool Holders, Threading and Grooving Tool Holders, U-Drills, Milling Tool Holders, Precision Tool Holders (OEM Tool Holders) on-demand, Monoblocks and Holders, and Profile Inserts. We produce a standard 10.000 kinds of tool holders with a production capacity of 750.000 pieces and 70.000 pieces of special profile inserts per year in an area of about 40.000 square meters. We are going on regularly exporting to 90 countries including European, Asian, African, South American Countries, North American Countries, and Middle Eastern countries. We keep ready about 300.000 pieces produced products in our stock. Steel Raw materials that we make produced especially for us are delivered our factory and all production process are made in our factory. All kinds of operations from machining of steel to heat treatment and coating on our tools are made in our integrated factory AKKO.

Wir die Firma AKKO Makina Sanayi ve Ticaret A.Ş. welches durch Herrn Abdullah Karakuş in 1986 gegründet wurde, produzieren Dreh-, Gewinde- und Stechwerkzeuge für Wendeschneidplatten. Zum Lieferprogramm gehören außerdem Wendeplattenbohrer, Wendeplattenfräser, Halter und auf Anfrage auch Sonderwerkzeuge für Wendeschneidplatten. Alle Werkzeuge sind auch als OEM-Version lieferbar. Wir produzieren 10.000 Standard Arten der Werkzeughalter mit einer Produktionskapazität von 750.000 Stücken und 70.000 Stück Spezialprofileinlagen per anum auf einer Fläche von 40.000 Quadrat Meter. Wir exportieren unsere eigenproduzierten Ware nach 90 Ländern, Europa, Asien, Afrika, Süd amerikanische Länder, Mittlerer Osten. Lieferbereit halten wir 300.000 Stück produzierte Produkte auf Lager. Das eingesetzte Rohmaterial wird speziell für unsere Firma produziert. Alle Produktionsschritte werden auf unseren eigenen Anlagen veranlasst. Alle einzelnen Produktionsschritte wie z.B. mechanische Bearbeitung, Wärmebehandlung und Beschichtung unserer Werkzeuge erfolgen auf unseren eigenen Maschinenanlagen.

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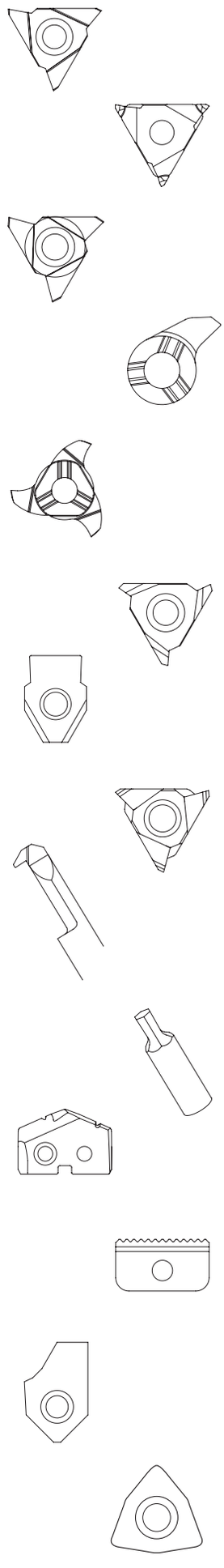

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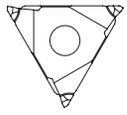

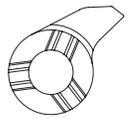
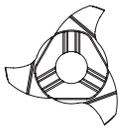

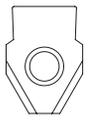
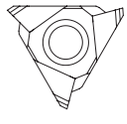
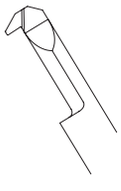
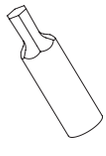
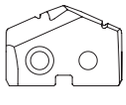
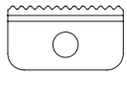

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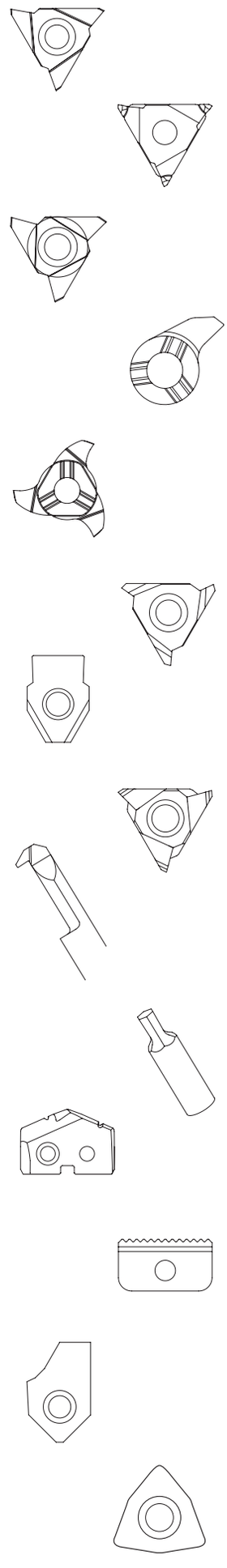

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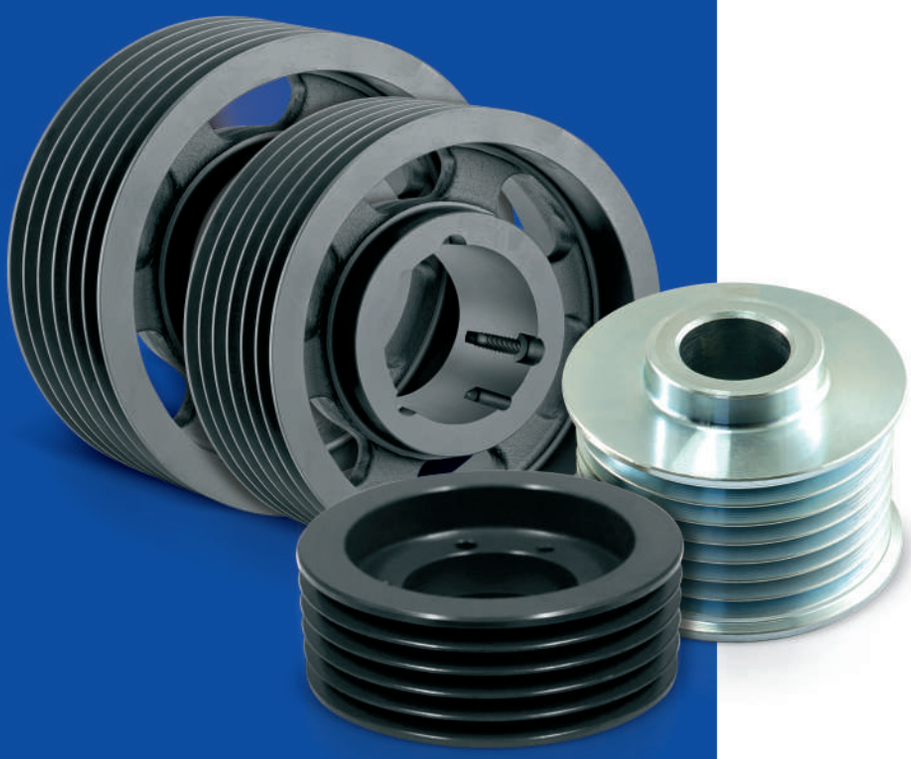
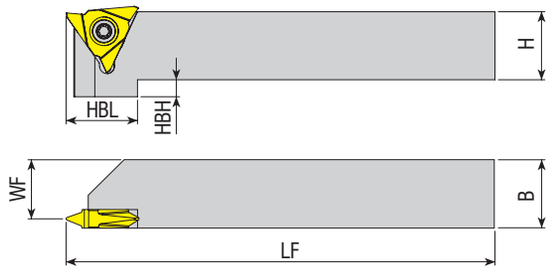
POLY-V

KAYIŞ KASNAK KANAL AÇMA UÇLARI VE TAKIMLARI

POLY-V BELT PULLEY GROOVING INSERTS AND TOOLHOLDERS

WENDESCHNEIDPLATTEN UND WERKZEUGE FÜR POLY-V RIEMENSCHEIBEN





Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager* R	L	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* H	B	WF	LF	HBL	HBH	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
ADKT-T12P-R/L-1616-T5	●	●	16	16	13.50	125	21	5	**T12…**	1020-M5x14	80-T20
ADKT-T12P-R/L-2020-T5	●	●	20	20	17.50	125	21	5			
ADKT-T12P-R/L-2525-T5	●	●	25	25	22.50	150	-	-			
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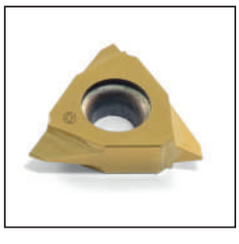
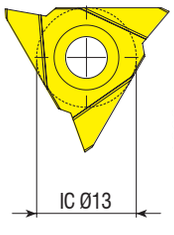
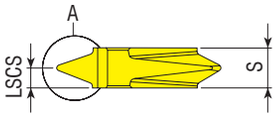
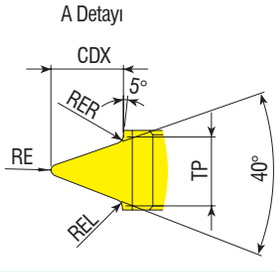
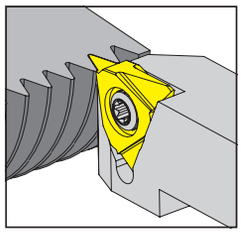








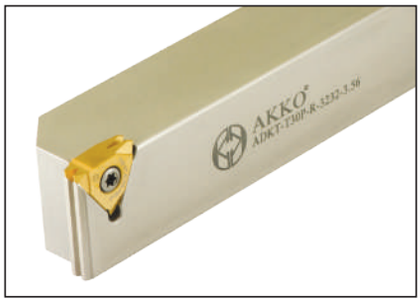


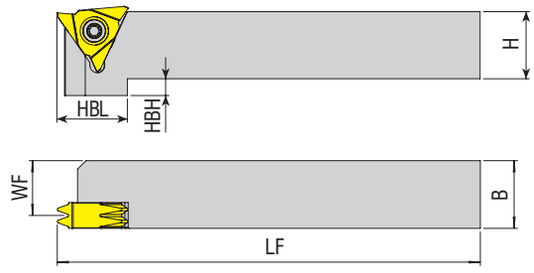
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* DIN/ISO KODU	TP	S	RE	RER / REL	LSCS	CDX	Kalite *Grade* *Sorte*
T12.10.0234.PJ.R/L	●	●	PJ	2.34	5.20	0.36	0.24	2.60	2.08	VK20F01
T12.10.0356.PK.R/L	●	●	PK	3.56	5.20	0.44	0.35	2.60	3.40	VK20F01
T12.10.0470.PL.R/L	●	●	PL	4.70	5.20	0.36	0.45	2.60	4.90	VK20F01

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

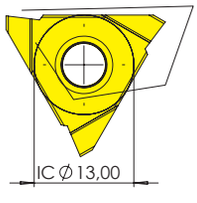
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ADKT-T12P-R-1616-T5

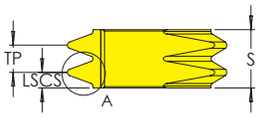
ADKT-T12P..Tipi katerler ile kullanınız. / Use with ADKT-T12P.. Type toolholder. / Einsatz mit ADKT-T12P…-Werkzeughalter
İndekslendiğinde boy ±0,02mm / Indexability length ±0,02mm / Wiederholgenauigkeit Länge ± 0,02 mm
Diğer ölçü talepleriniz için müşteri temsilciniz ile irtibata geçiniz. / For other dimension request, contact with customer representative. / Für weitere Abmessungen kontaktieren Sie bitte den Vertrieb.

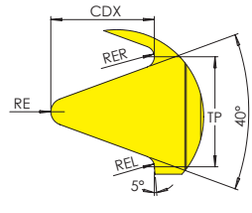


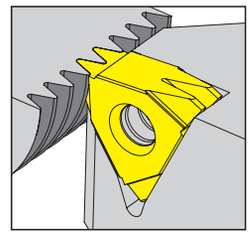


Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager* R	L	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* H	B	WF	LF	HBL	HBH	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
ADKT-T12P-R-1616-2.34	●	●	16	16	12.2	125	20	5	T12...	1020x M4.5 X14	80-T20
ADKT-T12P-R-2020-2.34	●	●	20	20	16.2	125	20	3			
ADKT-T12P-R-2525-2.34	●	●	25	25	21.2	150	-	-			
ADKT-T12P-R-3232-2.34	●	●	32	32	28.2	170	-	-			
ADKT-T30P-R-1616-3.56	●	●	16	16	12.2	125	20	5	T30…		
ADKT-T30P-R-2020-3.56	●	●	20	20	16.2	125	20	3			
ADKT-T30P-R-2525-3.56	●	●	25	25	21.2	150	-	-			
ADKT-T30P-R-3232-3.56	●	●	32	32	28.2	170	-	-			





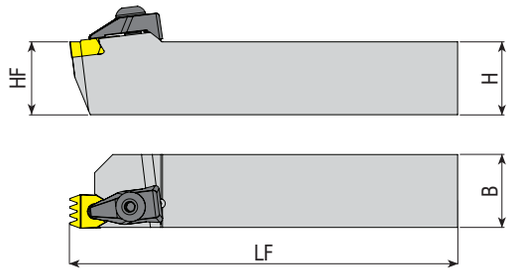




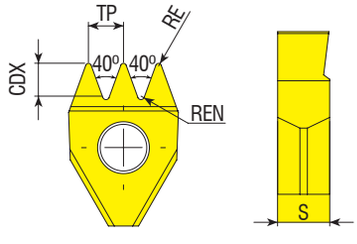
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* DIN/ISO KODU	TP	S	RER/REL	RE	LSCS	CDX	Kalite *Grade* *Sorte*
T12.07.0234.PJ.x2	●	PJ	2.34	5.20	0.24	0.36	1.48	2.08	VK20F01
T30.07.0356.PK.x2	●	PK	3.56	7.60	0.35	0.45	2.60	3.40	VK20F01

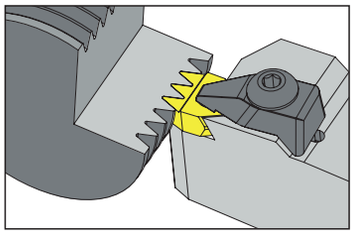
R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ADKT-T12P-R-1616-2.34



Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager* R	Stok *Stock* *Lager* L	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* HF=H	B	LF	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Baskı Pabucu *Wedge Clamp* *Spannpratze*	Pabuç Vidası *Clamp Screw* *Schraube*	Anahtar *Allen Key* *Innensechskantschlüssel*
new ATPVK 2020 K1.60X6	○	○	20	20	125	B26.07.0160.PH.x6	ATK-04	AKV-19-M7X25	AAL-05-4
new ATPVK 2525 M1.60X6	○	○	25	25	150				
new ATPVK 3232 P1.60X6	○	○	32	32	170				
ATPVK 2020 K2.34X4	○	○	20	20	125	B26.07.0234.PJ.x4			
ATPVK 2525 M2.34X4	○	○	25	25	150				
ATPVK 3232 P2.34X4	●	○	32	32	170				
ATPVK 2020 K3.56X4	○	○	20	20	125	B26.07.0356.PK.x4			
ATPVK 2525 M3.56X4	○	○	25	25	150				
ATPVK 3232 P3.56X4	●	○	32	32	170				
ATPVK 2020 K3.56X3	○	○	20	20	125	B26.07.0356.PK.x3			
ATPVK 2525 M3.56X3	○	○	25	25	150				
ATPVK 3232 P3.56X3	○	○	32	32	170				
ATPVK 2020 K4.7X3	○	○	20	20	125	B26.07.0470.PL.x3			
ATPVK 2525 M4.7X3	○	○	25	25	150				
ATPVK 3232 P4.7X3	●	○	32	32	170				





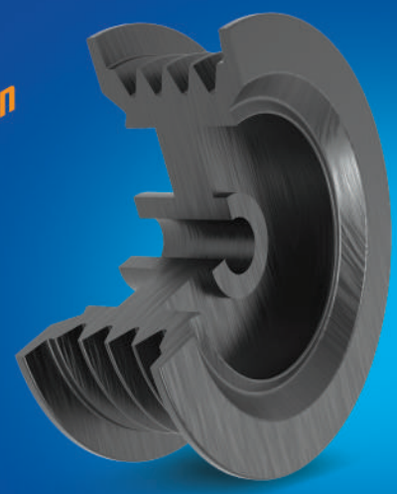
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* DIN/ISO KODU	TP	S	RE	REN	CDX	Kalite *Grade* *Sorte*
new B26.07.0160.PHx6	●	PH	1.60	7	0.15	0.30	1.53	VK10F01
B26.07.0234.PJx4	●	PJ	2.34	7	0.36	0.24	2.05	VK10F01
B26.07.0356.PKx3	●	PK	3.56	7	0.45	0.35	3.35	VK10F01
B26.07.0356.PKx4	●	PK	3.56	7	0.45	0.35	3.35	VK10F01
B26.07.0470.PLx3	●	PL	4.70	7	0.38	0.45	4.85	VK10F01

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATPVK 2020 K1.60X6

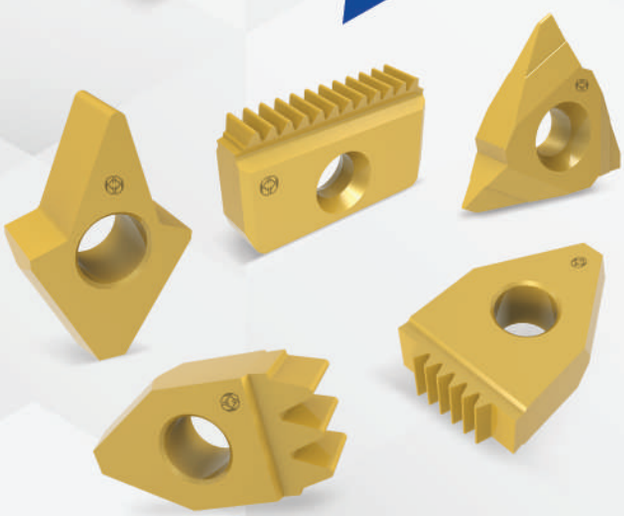
POLY-V ÖZEL ÇÖZÜMLER
POLY-V SPECIAL SOLUTIONS
POLY-V SPEZIELLE LÖSUNGEN

PM Kasnak Çözümleri
PM Pulley Solutions
PM Reimenscheiben Lösungen



PH Kasnak Çözümleri
PH Pulley Solutions
PH Reimenscheiben Lösungen

PK Kasnak Çözümleri
PK Pulley Solutions
PK Reimenscheiben Lösungen



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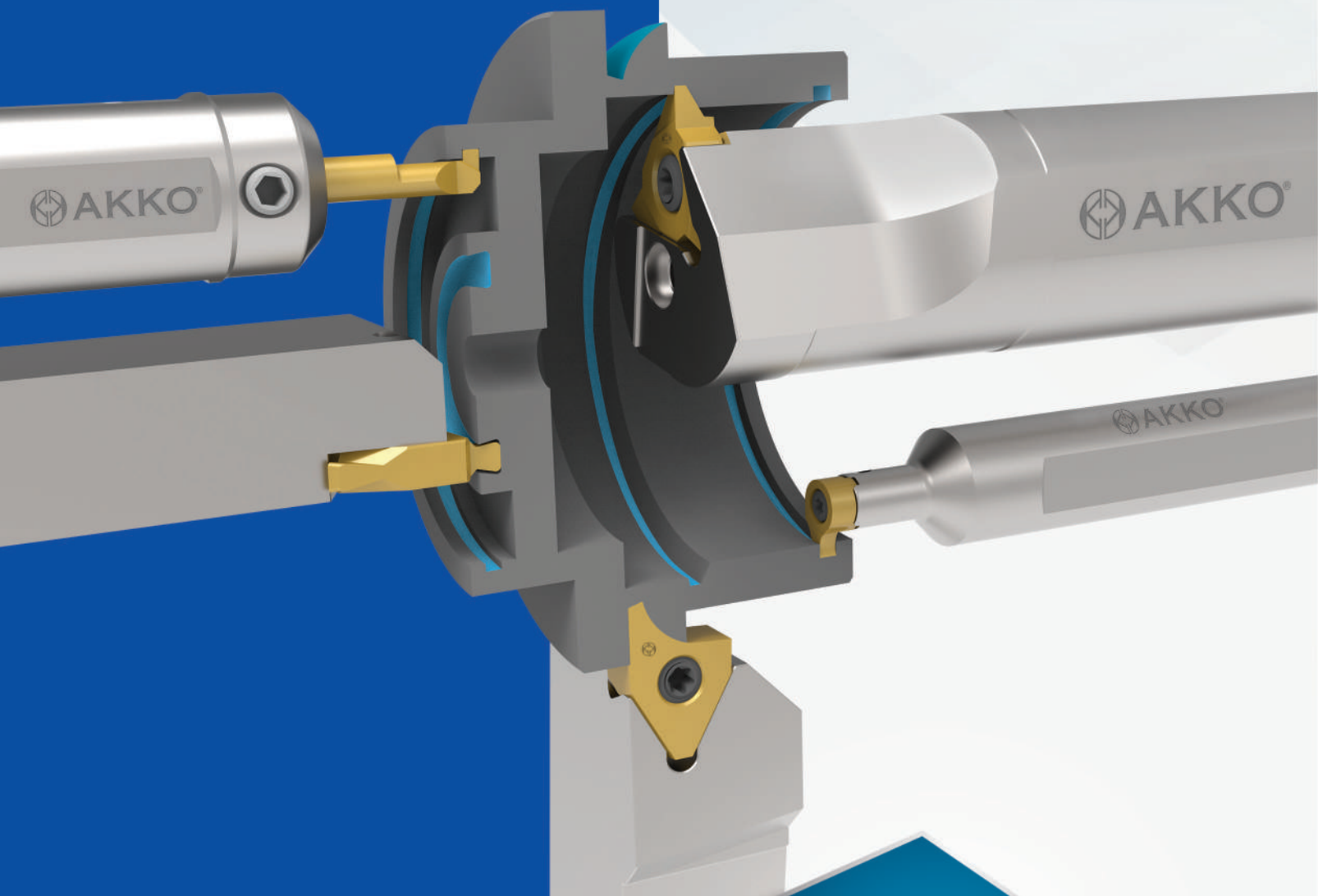

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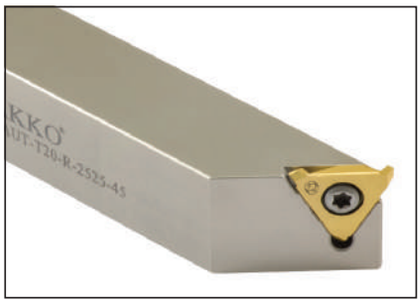
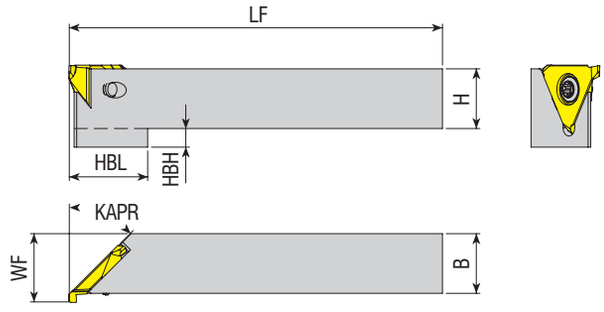
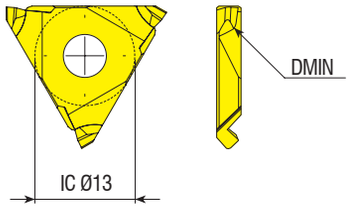
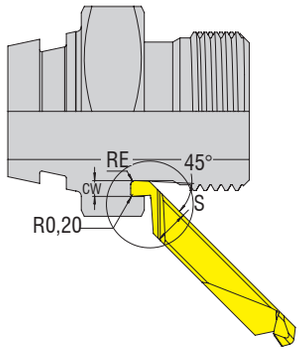




Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager* R	Stok *Stock* *Lager* L	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* H	B	WF	LF	HBL	HBH	KAPR	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
AAUT-T20-R/L-1616-45	●	●	16	16	18.3	125	21	5	45°	**T20…**	1020-M5x7.5	80-T20
AAUT-T20-R/L-2020-45	●	●	20	20	22.3	125	21	5	45°			
AAUT-T20-R/L-2525-45	●	●	25	25	27.3	150	-	-	45°			



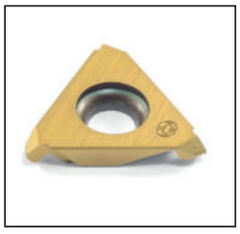


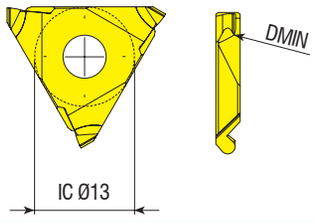
Sağ versiyon gösterilmiştir
Right hand version shown
Abbildung zeigt rechte Ausführung

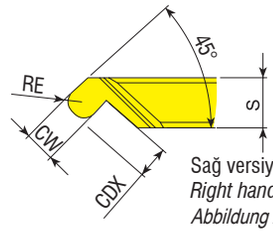
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	Stok *Stock* *Lager* L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* CW	S	RE	CDX	DMIN	Kalite *Grade* *Sorte*	Minimum Çap Ø *Minimum Diameter Ø* *Kleinster Durchmesser ø*	Kanal Derinliği *Depth of Groove Up to* *Stechtiefe bis zu*	*Kanal Genişliği* *Width of Groove* *Stechbreite*
T20.00.0815.45.04R/L	●	●	1.5	3.25	0.4	1.6	8	VK20F01	8	1.6	1.5
T20.00.1220.45.05R/L	●	●	2.0	3.25	0.5	1.8	12	VK20F01	12	1.8	2.0
T20.00.2024.45.06R/L	●	●	2.4	3.25	0.6	2.0	20	VK20F01	20	2.0	2.4

AAUT.. Tipi katerlerle kullanınız. / Use with AAUT type toolholder. / Einsatz mit AAUT-Werkzeughalter
Kullanım öncesinde dip boşluk işlenmiş olmalıdır. / The undercut must be placed before axial machining. / Der Freistich muss vor der Axialbearbeitung gefertigt werden
İndekslendiğinde boy ±0.02mm / Indexability length ±0.02mm / Wiederholgenauigkeit Länge ± 0,02 mm

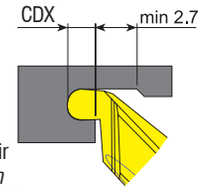
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück AAUT-T20-R/L-1616-45







Sağ versiyon gösterilmiştir
Right hand version shown
Abbildung zeigt rechte Ausführung

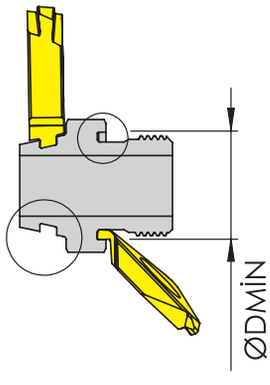


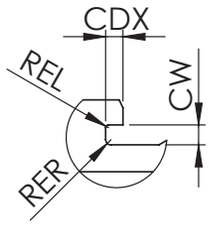
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* CW	S	RE	CDX	DMIN	Kalite *Grade* *Sorte*	Minimum Çap Ø *Minimum Diameter Ø* *Kleinster Durchmesser ø*	Kanal Derinliği *Depth of Groove Up to* *Stechtiefe bis zu*	*Kanal Genişliği* *Width of Groove* *Stechbreite*
T20.00.1220.45.10R/L	●	●	2.0	3.25	1.0	1.8	12	VK20F01	12	1.8	2

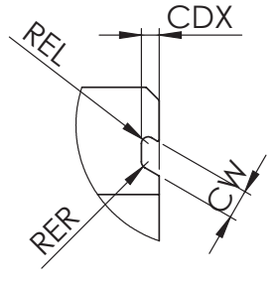
AAUT.. Tipi katerlerle kullanınız. / Use with AAUT type toolholder. / Einsatz mit AAUT-Werkzeughalter
Kullanım öncesinde dip boşluk işlenmiş olmalıdır. / The undercut must be placed before axial machining. / Der Freistich muss vor der Axialbearbeitung gefertigt werden
İndekslendiğinde boy ±0.02mm / Indexability length ±0.02mm / Wiederholgenauigkeit Länge ± 0,02 mm

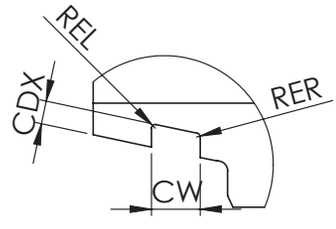
R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück T20.00.1220.45.10R/L









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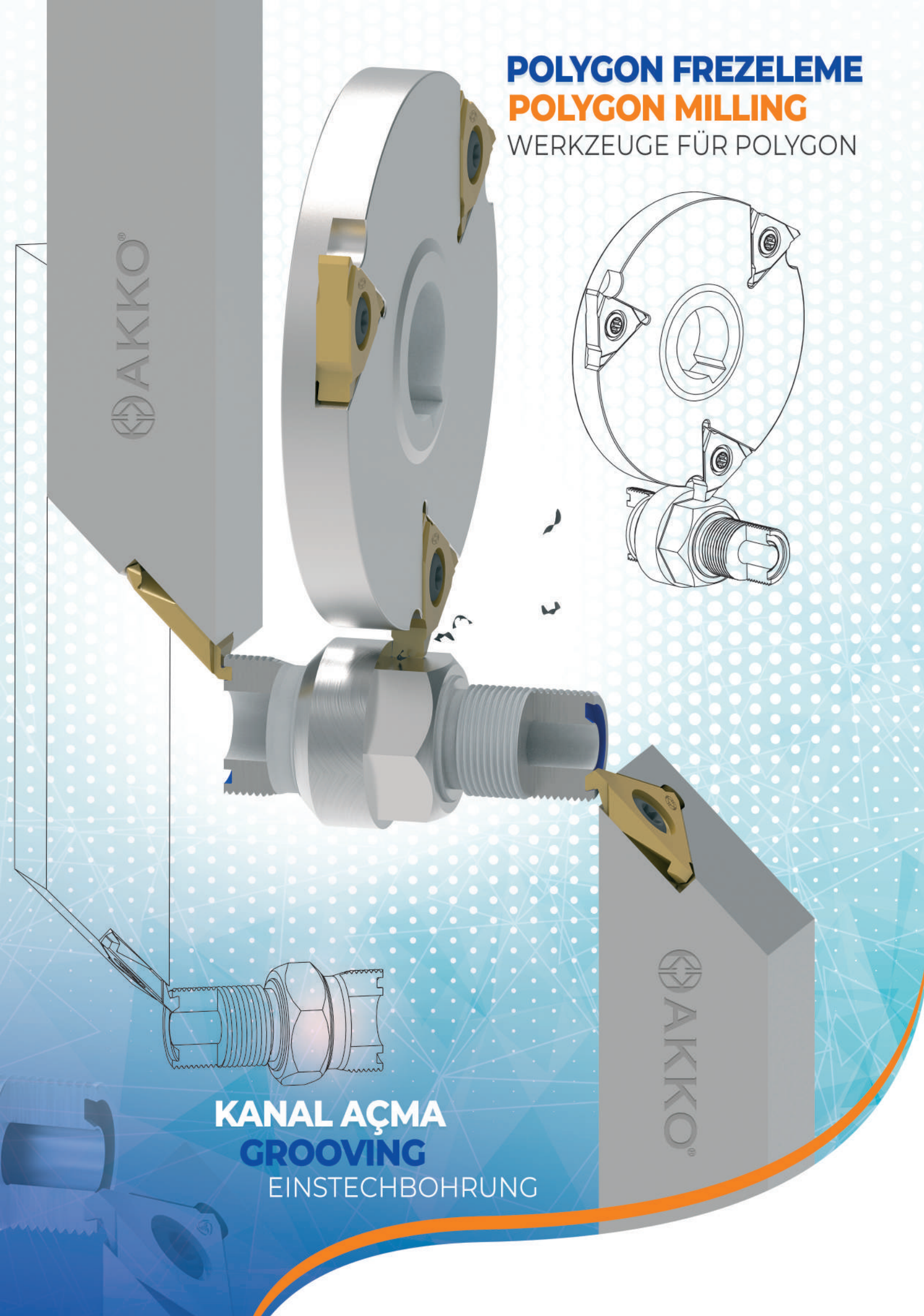
CW	CDX	RER	REL	DMİN	İŞPARÇASI MALZEMESİ / WORKPIECE MATERIAL/ WERKSTUCKMATERIAL

Farklı özel profilleri için lütfen irtibata geçiniz. / Please contact for different special profiles. / *Bitte kontaktieren Sie uns für Sonderwendeschneidplatten*

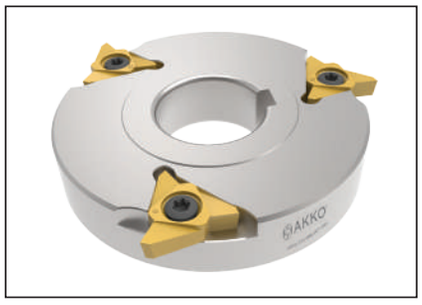
export@akko.com.tr adresine teknik resim göndermeniz halinde iş parçanıza özel tasarımlar yapılabilmektedir. / If you send a technical drawing to vexport@akko.com.tr special designs can be made for your workpiece. / Bei Einreichung von der technischne Zeichnung an export@akko.com.tr können auch Werkzeug spezifische Entwürfe hergestellt werden.

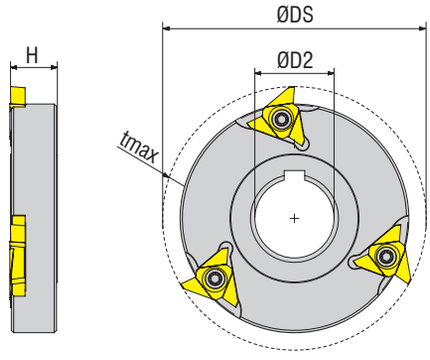
POLYGON FREZELEME
POLYGON MILLING
WERKZEUGE FÜR POLYGON



KANAL AÇMA
GROOVING
EINSTECHBOHRUNG

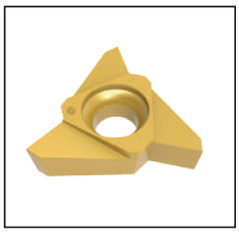
new

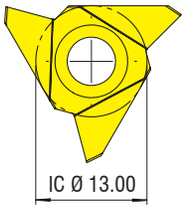


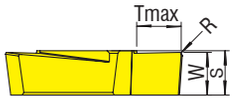


Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager* R	L	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* ØDS	ØD2	ZEFP	H	Tmax	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
APTR/L-T12-D90-D27-Z02	○	○	90	27	2	16.20	5	T12..	1020.M5X11	80-T20
APTR/L-T12-D90-D27-Z03	○	○	90	27	3	16.20	5			

new





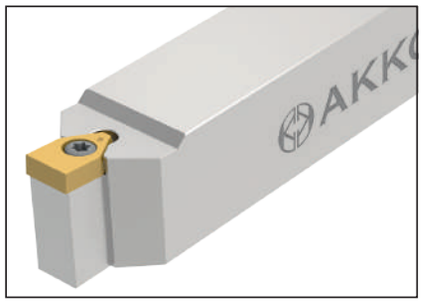


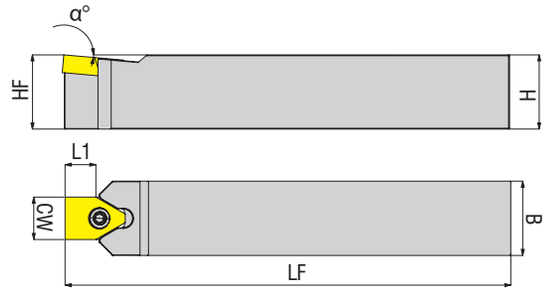
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* W	Tmax	R	K	S	ZEFP	Kalite *Grade* *Sorte*
T12.15.0500.05.020 R/L	○	5	5	0.2	5°	5.2	3	VK20F01

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APTR-T12-D90-D27-Z02

new

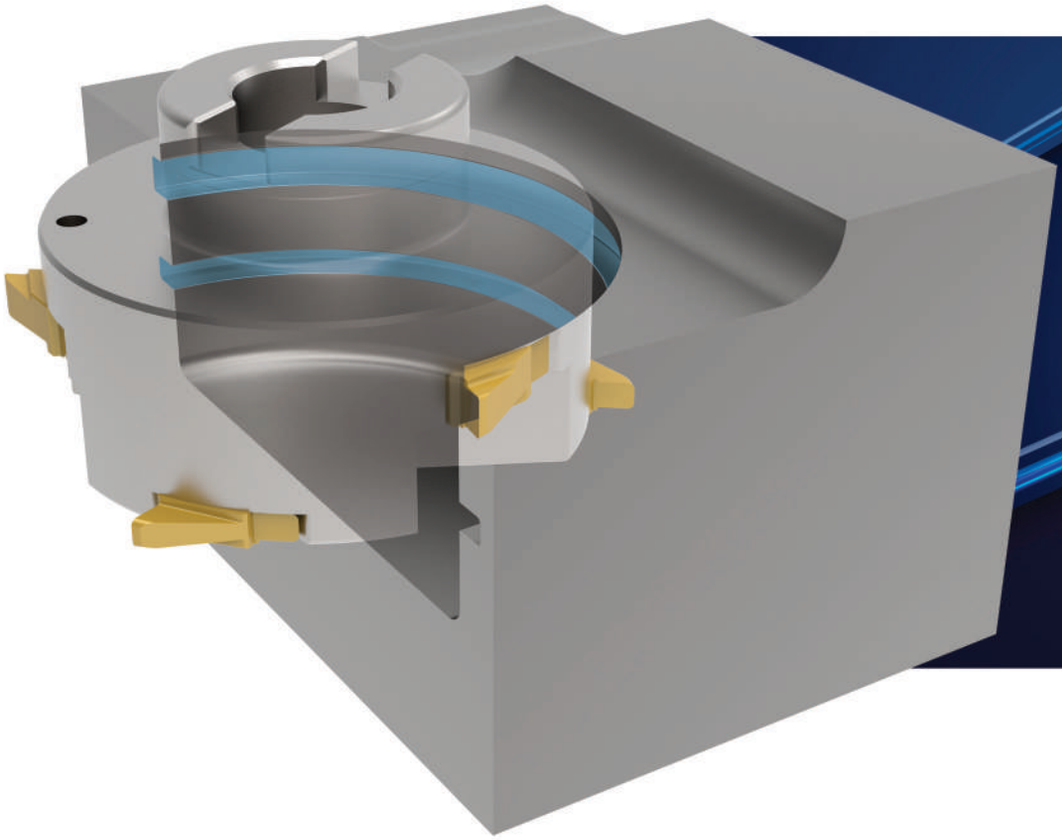


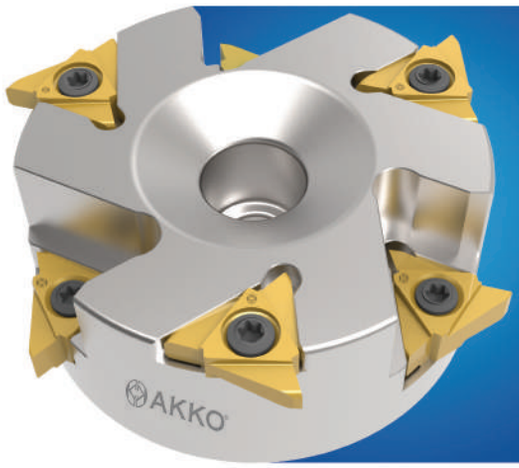


Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							Yedek Parçaları / *Spare Parts* / *Ersatzteile*	
		H	B	LF	HF	L1	α	CW	Kesici Uç *Insert* *Wendeschneidplatte*	Sıkma Vidası *Screw* *Schraube*
ADKT-B41-1616-L125	○	16	16	125	16	8	5°	10	**B41.00.0400**	4015-M4x11
ADKT-B41-2020-L125	○	20	20	125	20	8	5°	10		
ADKT-B41-2525-L150	○	25	25	150	25	8	5°	10		
ADKT-B42-1616-L125	○	16	16	125	16	10	5°	14.30	**B42.00.0600**	1020-M5x14
ADKT-B42-2020-L125	○	20	20	125	20	10	5°	14.30		
ADKT-B42-2525-L150	○	25	25	150	25	10	5°	14.30		

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ADKT-B41-1616-L125

KANAL AÇMA ÖZEL ÇÖZÜMLER
SPECIAL SOLUTIONS FOR GROOVING
NUTEN SPEZIELLE LÖSUNGEN





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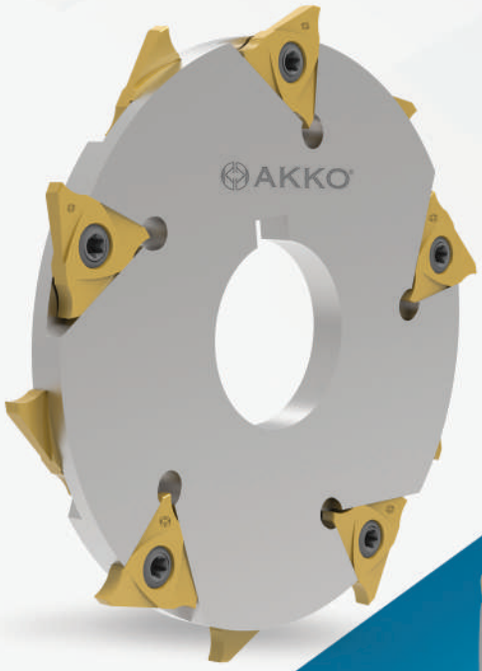

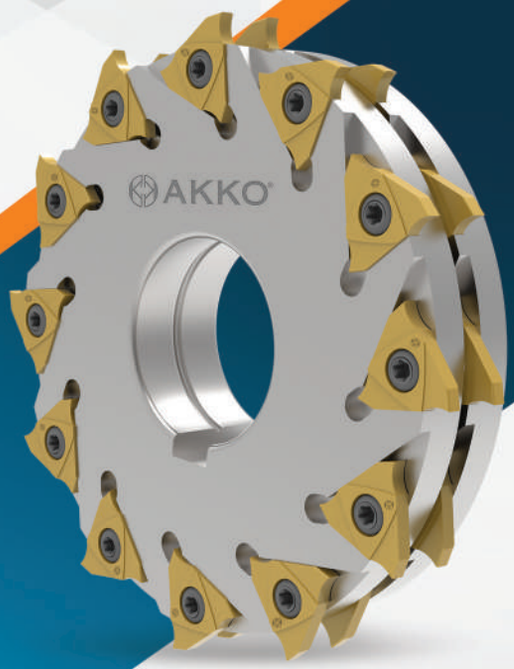

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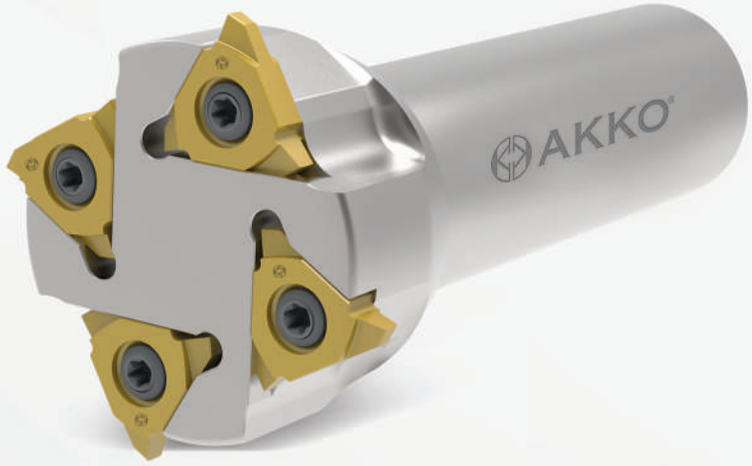
ÖZEL ÇÖZÜMLER
SPECIAL SOLUTIONS FOR GROOVING
NUTEN SPEZIELLE LÖSUNGEN



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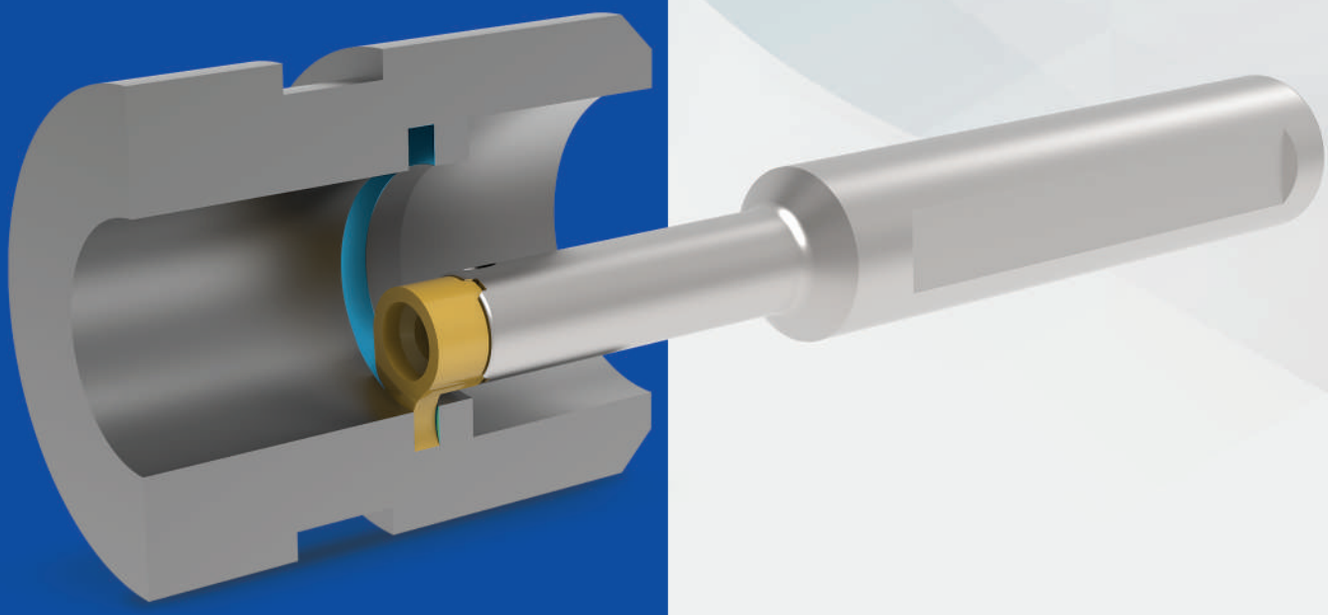
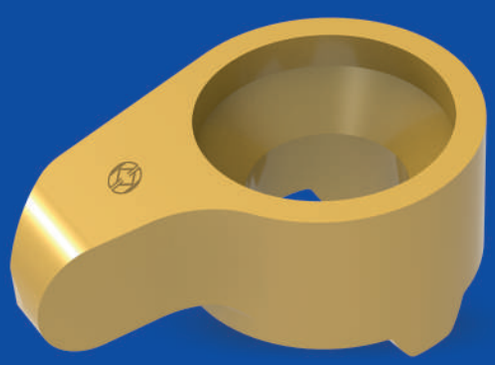
MİCO CUT UÇLARI ve TAKIMLAR

MICO CUT INSERTS and TOOLS
MICO CUT WENDESCHEIDPLATTEN WERKZEUGE





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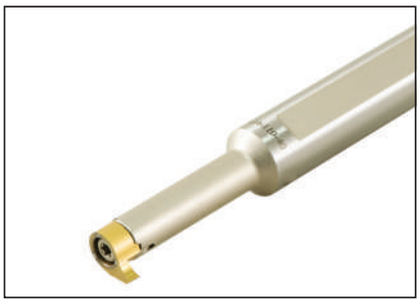
2025'te Stoklarda

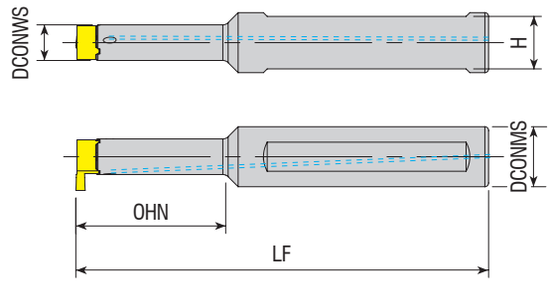
It will be available at our stocks in 2025

Es wird im Jahr 2025 im Lager verfügbar sein

ÇELİK ŞAFT
STEEL SHAFT
STAHLSCHÄFTE

new

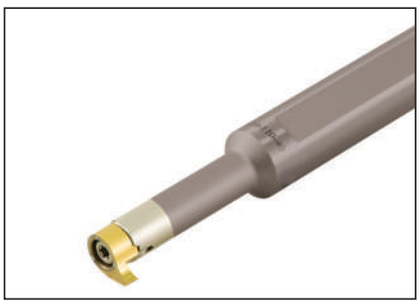


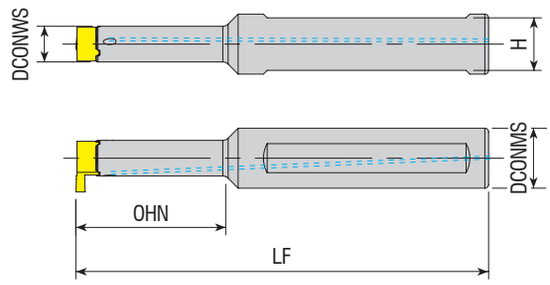


Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*					Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*	
								Sıkma Vidası *Screw* *Klemmschraube*	Tork Anahtar *Torx Key* *Torx Innensechskantschlüssel*
		DCONMS	DCONWS	LF	OHN	H			
A12G-MC08-015	○	12	8	90	15	11	MC08	4015xM4X11	80-T15
A12G-MC08-022	○	12	8	90	22	11			
A12G-MC11-019	○	12	11	90	19	15	MC11	1020-M5x14	80-T20
A16G-MC11-028	○	16	11	100	28	15			
A16J-MC11-040	○	16	11	110	40	15			

KARBÜR ŞAFT
CARBIDE SHAFT
HARTMETALLSCHAFT

new

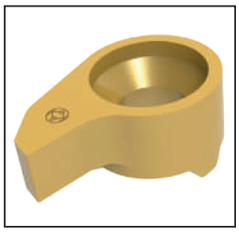


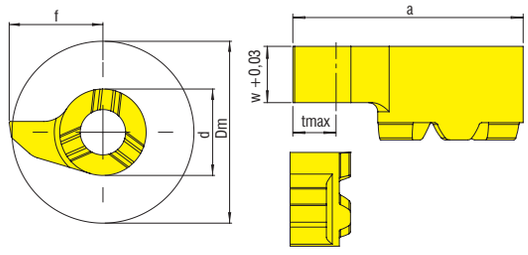


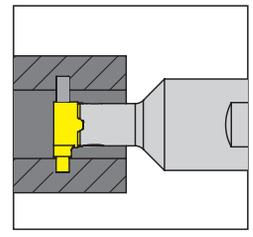
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*					Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*	
								Sıkma Vidası *Screw* *Klemmschraube*	Tork Anahtar *Torx Key* *Torx Innensechskantschlüssel*
		DCONMS	DCONWS	LF	OHN	H			
E12J-MC08-042	○	12	8	110	42	11	MC08	4015xM4X11	80-T15
E12K-MC08-056	○	12	8	120	56	11			
E12J-MC11-040	○	12	11	130	40	15	MC11	T20-M5X14	80-T20
E16K-MC11-056	○	16	11	130	56	15			
E16K-MC11-080	○	16	11	150	80	15			

● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück A12G-MC08-015

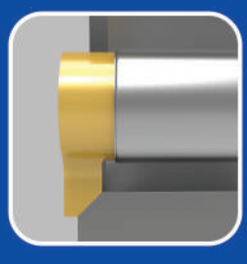


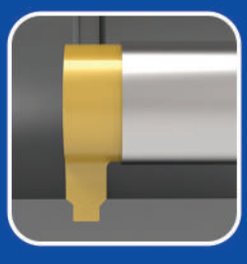


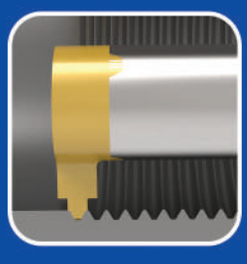


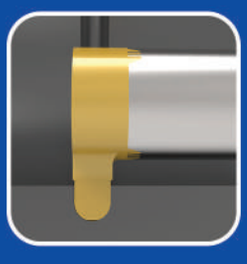
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*								Kalite *Grade* *Sorte*
		W	R	a	d	f	tmax	Dm	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG	
MC08.G.0100.010.01340	○	1.0	0.10	10.7	8.0	6.7	2.3	13.4	..-MC08-...	VP3001
MC08.G.0150.015.01340	○	1.5	0.15	10.7	8.0	6.7	2.3	13.4		VP3001
MC08.G.0200.020.01340	○	2.0	0.20	10.7	8.0	6.7	2.3	13.4		VP3001
MC08.G.0250.025.01340	○	2.5	0.25	10.7	8.0	6.7	2.3	13.4		VP3001
MC08.G.0300.030.01340	○	3.0	0.30	10.7	8.0	6.7	2.3	13.4		VP3001

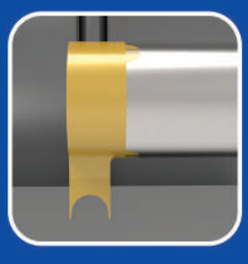
DİĞER PROFİL ÇEŞİTLERİ / *THE OTHER PROFILE TYPES* / ANDERE PROFIL-TYPEN


CHAMFER PROFILE

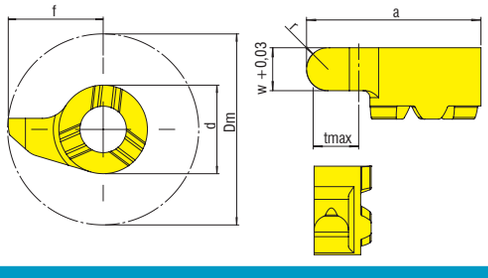

CIRCLIP PROFILE

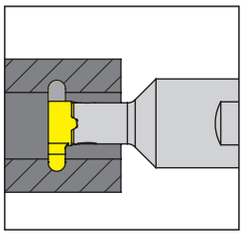

THREAD PROFILE


RADIUS GROVE PROFILE


SPECIAL PROFILE

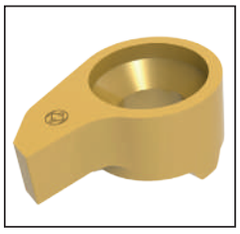
*Diğer profil uçlar özel taleplere göre üretilmektedir. / *Profiled inserts are manufactured according to customer special requirements. / Die Profil-Wendeschneidplatten werden nach Kundenwunsch gefertigt.*

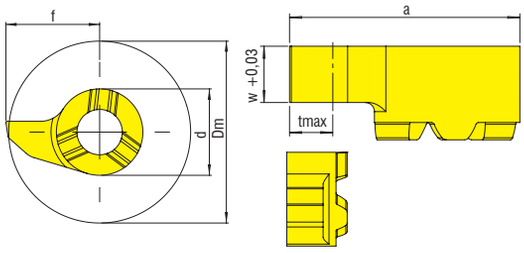


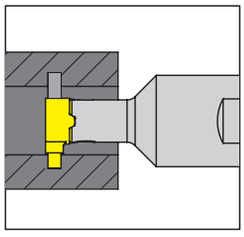


Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*								Kalite *Grade* *Sorte*
		W	R	a	d	f	tmax	Dm	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG	
MC08.GR.0080.040.01340	○	0.8	0.4	10.7	8	6.7	2.3	13.4	....-MC08-...	VP3001
MC08.GR.0120.060.01340	○	1.2	0.6	10.7	8	6.7	2.3	13.4		VP3001
MC08.GR.0180.090.01340	○	1.8	0.9	10.7	8	6.7	2.3	13.4		VP3001
MC08.GR.0200.100.01340	○	2.0	1.0	10.7	8	6.7	2.3	13.4		VP3001
MC08.GR.0300.150.01340	○	3.0	1.5	10.7	8	6.7	2.3	13.4		VP3001

● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

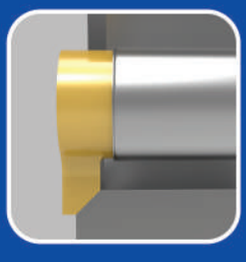


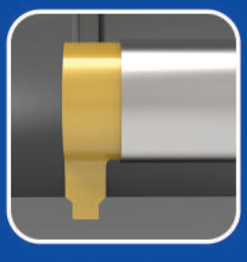




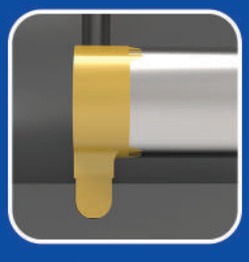
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*								Kalite *Grade* *Sorte*
		W	R	a	d	f	tmax	Dm	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG	
MC11.G.0100.010.02040	○	1.0	0.1	15.7	11	10.2	4.3	20.4	....-MC11-...	VP3001
MC11.G.0150.015.02040	○	1.5	0.15	15.7	11	10.2	4.3	20.4		VP3001
MC11.G.0200.020.02040	○	2.0	0.2	15.7	11	10.2	4.3	20.4		VP3001
MC11.G.0250.025.02040	○	2.5	0.25	15.7	11	10.2	4.3	20.4		VP3001
MC11.G.0300.030.02040	○	3.0	0.3	15.7	11	10.2	4.3	20.4		VP3001
MC11.G.0350.035.02040	○	3.5	0.35	15.7	11	10.2	4.3	20.4		VP3001
MC11.G.0400.040.02040	○	4.0	0.40	15.7	11	10.2	4.3	20.4		VP3001

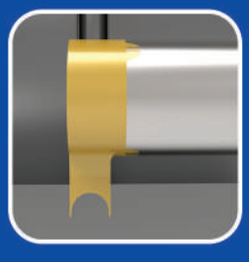
DİĞER PROFİL ÇEŞİTLERİ / *THE OTHER PROFILE TYPES* / ANDERE PROFIL-TYPEN


CHAMFER PROFILE

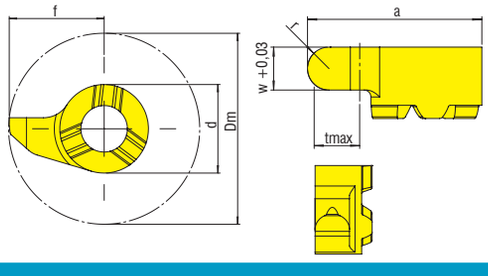

CIRCLIP PROFILE

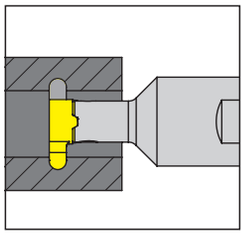
THREAD PROFILE


RADIUS GROVE PROFILE


SPECIAL PROFILE

*Diğer profil uçlar özel taleplere göre üretilmektedir. / *Profiled inserts are manufactured according to customer special requirements. / Die Profil-Wendeschneidplatten werden nach Kundenwunsch gefertigt.*





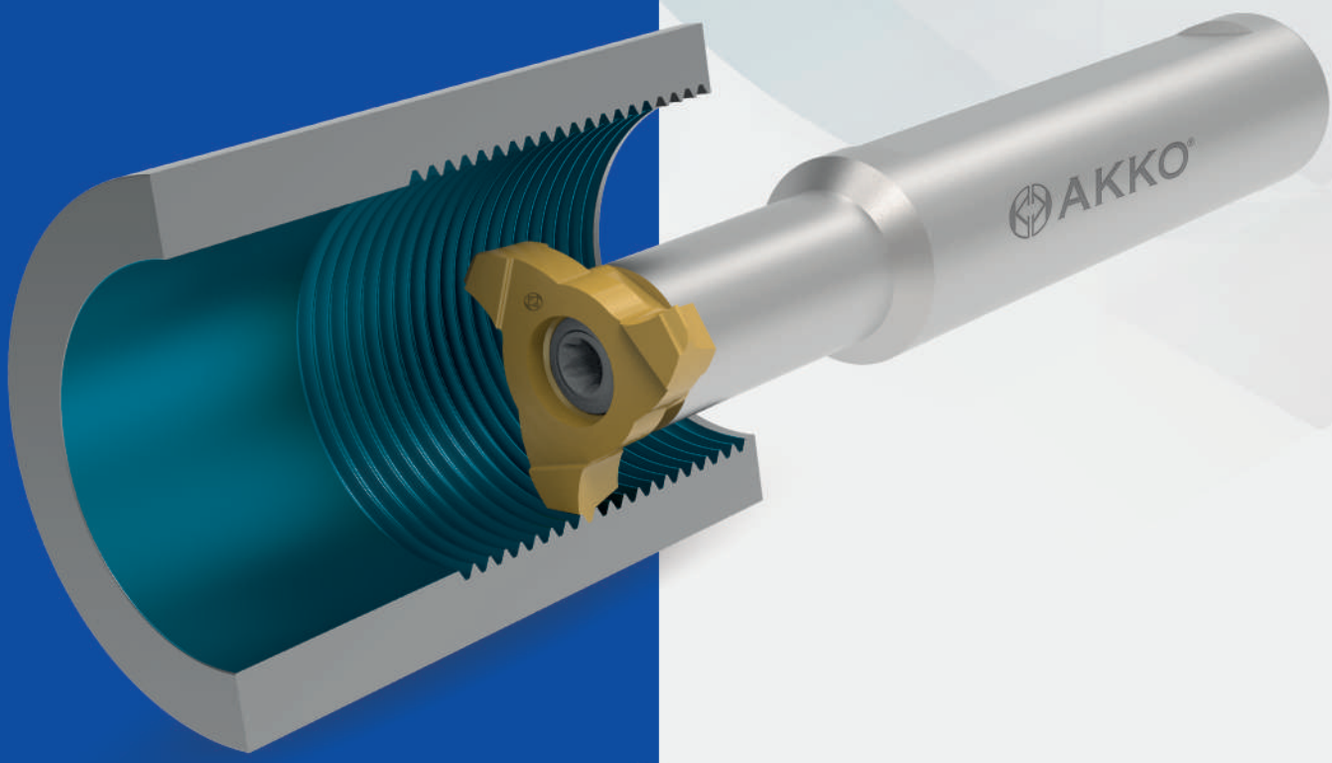
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*								Kalite *Grade* *Sorte*
		W	R	a	d	f	tmax	Dm	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG	
MC11.GR.0180.090.02040	○	1.8	0.9	15.7	11.0	10.2	4.3	20.4	....-MC11-...	VP3001
MC11.GR.0220.110.02040	○	2.2	1.1	15.7	11.0	10.2	4.3	20.4		VP3001
MC11.GR.0300.150.02040	○	3.0	1.5	15.7	11.0	10.2	4.3	20.4		VP3001
MC11.GR.0400.200.02040	○	4.0	2.0	15.7	11.0	10.2	4.3	20.4		VP3001

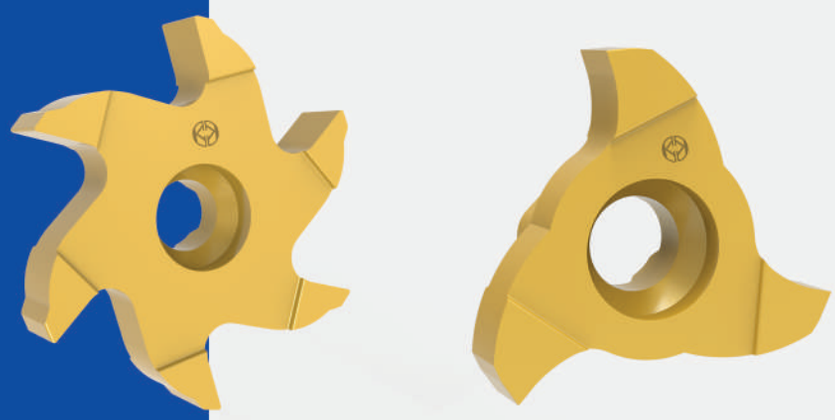
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück MC11.G.0100.010.02040

MİMİLL UÇLARI ve TAKIMLARI

MIMILL INSERTS and TOOLS
MIMILL WENDESCHEIDPLATTEN WERKZEUGE





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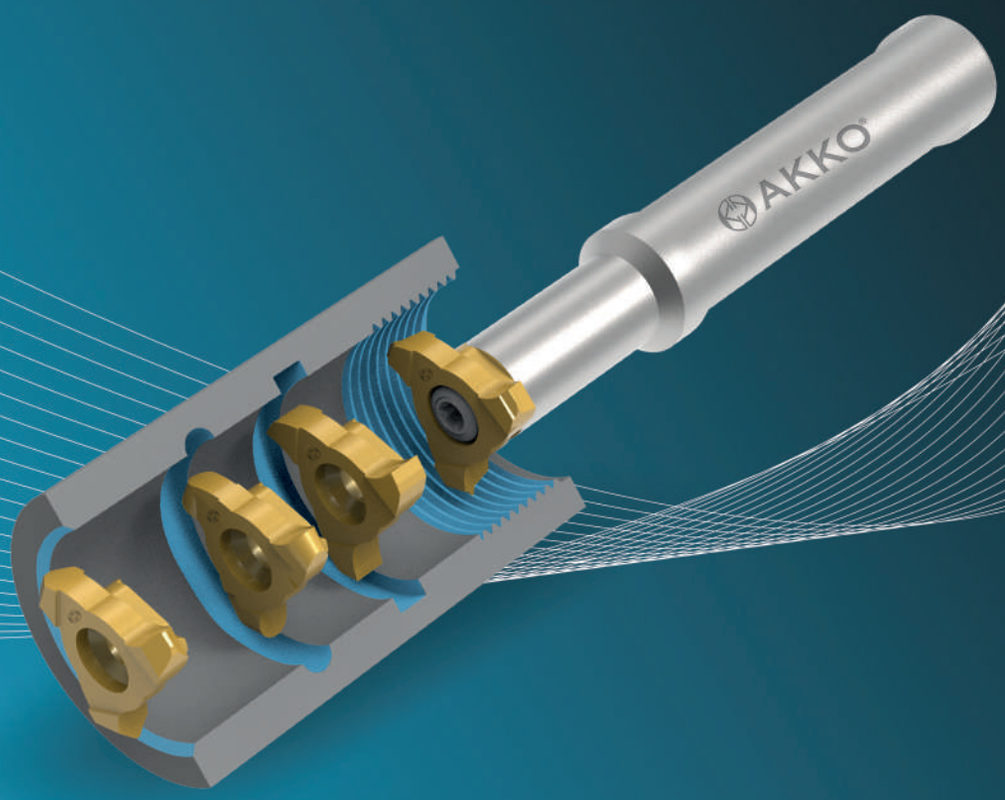
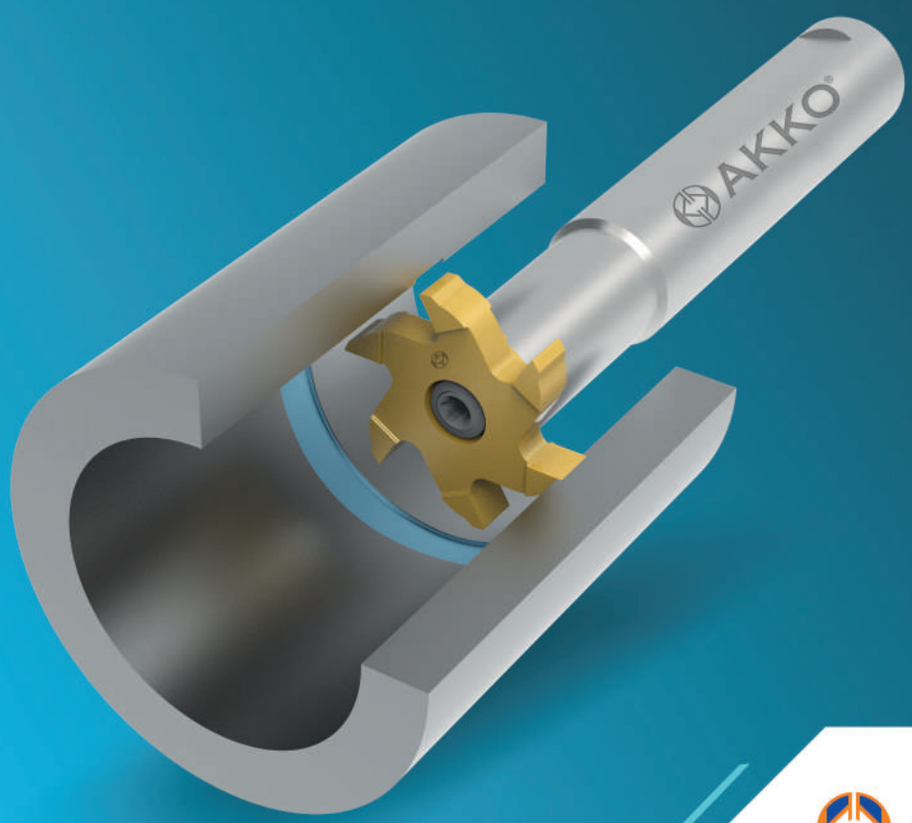
2025'te Stoklarda

It will be available at our stocks in 2025

Es wird im Jahr 2025 im Lager verfügbar sein

MİMİLL UÇLARI ve TAKIMLARI
MIMILL INSERTS and TOOLS
MIMILL WENDESCHEIDPLATTEN WERKZEUGE

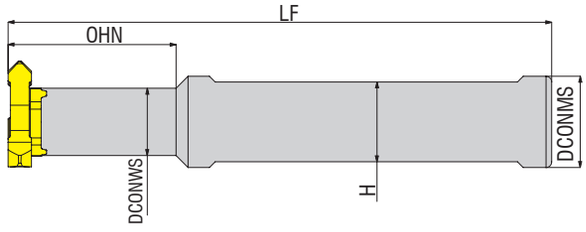


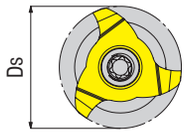


AKKO®

ø Ds 17.7

ÇELİK ŞAFT
STEEL SHAFT
STAHL SCHAFT

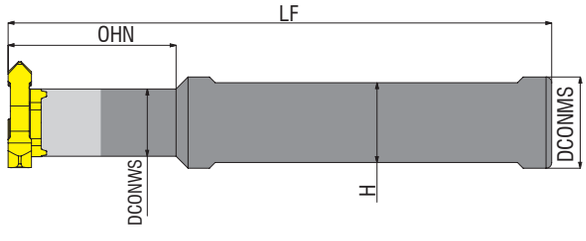


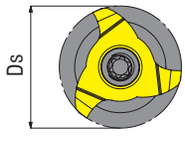


Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*					Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*	
								Sıkma Vidası *Screw* *Klemmschraube*	Tork Anahtar *Torx Key* *Torx Innensechskantschlüssel*
		DCONMS	DCONWS	LF	OHN	H			
AMM-MM1803-W12-L70-S	○	12	9	70	18	11	**MM1803...**	4015-M4x12	80-T15
AMM-MM1803-W16-L80-S	○	16	9	80	26	15			

ø Ds 17.7

KARBÜR ŞAFT
CARBIDE SHAFT
HARTMETALLSCHAFT



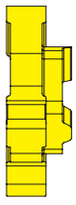


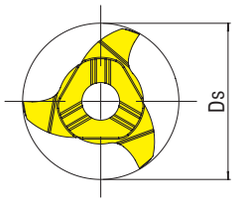
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*					Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*	
								Sıkma Vidası *Screw* *Klemmschraube*	Tork Anahtar *Torx Key* *Torx Innensechskantschlüssel*
		DCONMS	DCONWS	LF	OHN	H			
AMM-MM1803-W12-L100-C	○	12	9	100	45		**MM1803...**	4015-M4x12	80-T15
AMM-MM1803-W12-L110-C	○	12	9	110	64	-			
AMM-MM1803-W16-L100-C	○	16	9	100	32				
AMM-MM1803-W16-L110-C	○	16	9	110	45	-			
AMM-MM1803-W16-L125-C	○	16	9	125	64				

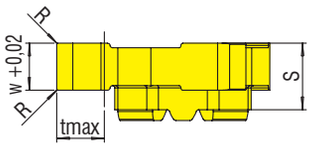
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

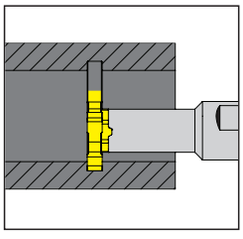
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück AMM-MM1803-W12-L70-S

ø Ds 17.7





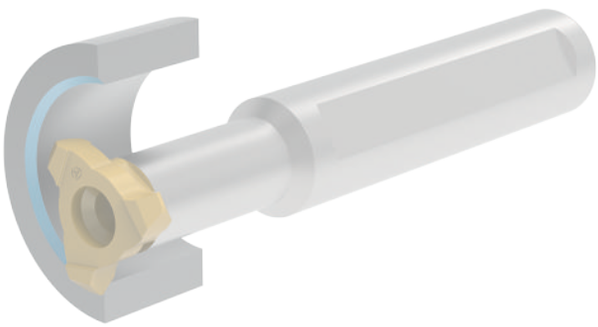


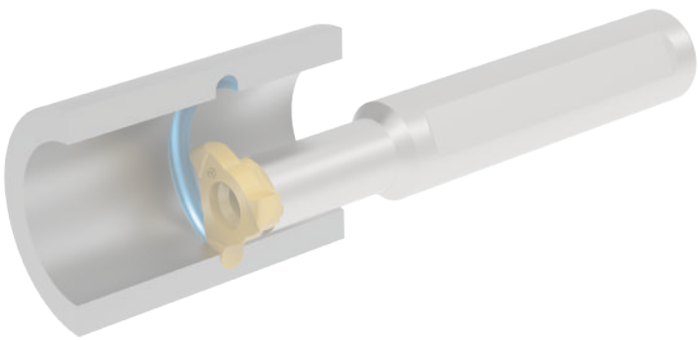


Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*							Kalite *Grade* *Sorte*
		Ds	W	R	tmax	S	Z	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG	
MM1803.G.0150.010.0177	○	17.7	1.5	0.1	3.5	5.7	3	....-MM1803-...	VP3001
MM1803.G.0200.020.0177	○	17.7	2.0	0.2	3.5	5.7	3		VP3001
MM1803.G.0250.020.0177	○	17.7	2.5	0.2	3.5	5.7	3		VP3001
MM1803.G.0300.010.0177	○	17.7	3	0.2	3.5	5.7	3		VP3001

● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./ MM1803.G.0150.010.0177

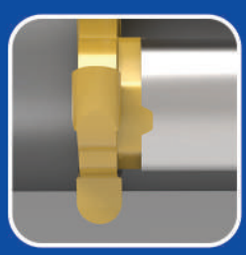




DİĞER PROFİL ÇEŞİTLERİ / *THE OTHER PROFILE TYPES* / ANDERE PROFIL-TYPEN

THREAD PROFILE

GEAR PROFILE



RADIUS GROVE PROFILE

CIRCLIP PROFILE

CHAMFER PROFILE

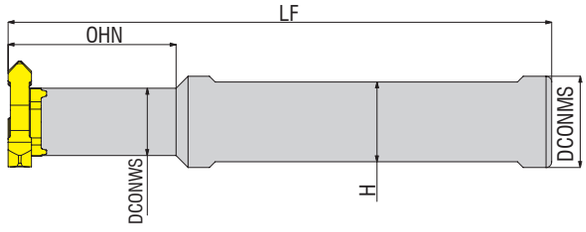
SPECIAL PROFILE

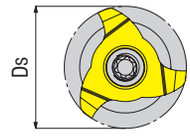
*Diğer profil uçlar özel taleplere göre üretilmektedir. / *Profiled inserts are manufactured according to customer special requirements. / Die Profil-Wendeschneidplatten werden nach Kundenwunsch gefertigt.*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück MM1803.G.0150.010.0177

ø Ds 21.7

ÇELİK ŞAFT
STEEL SHAFT
STAHL SCHAFT

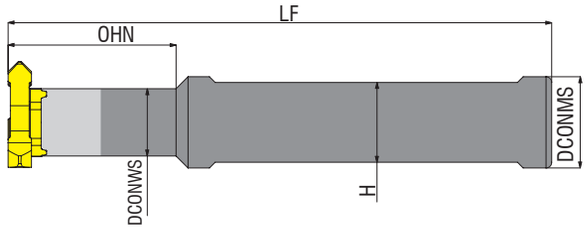


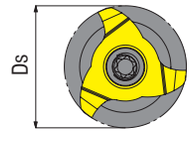


Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*					Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*	
								Sıkma Vidası *Screw* *Klemmschraube*	Tork Anahtar *Torx Key* *Torx Innensechskantschlüssel*
		DCONMS	DCONWS	LF	OHN	H			
AMM-MM2203-W12-L70-S	○	12	12	70	18	11	MM2203...	1020-M5x14	80-T20
AMM-MM2203-W16-L80-S	○	16	12	80	26	15			

ø Ds 21.7

KARBÜR ŞAFT
CARBIDE SHAFT
HARTMETALLSCHAFT



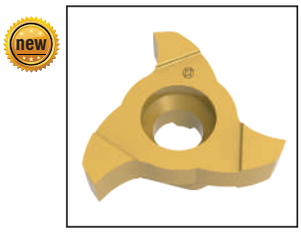


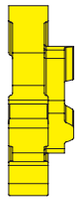
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*					Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*	
								Sıkma Vidası *Screw* *Klemmschraube*	Tork Anahtar *Torx Key* *Torx Innensechskantschlüssel*
		DCONMS	DCONWS	LF	OHN	H			
AMM-MM2203-W16-L100-C	○	16	12	100	42	-	MM2203...	1020-M5x14	80-T20
AMM-MM2203-W16-L125-C	○	16	12	125	60				
AMM-MM2203-W16-L160-C	○	16	12	160	85	-			

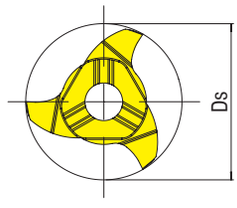
● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

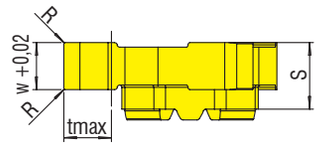
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück AMM-MM2203-W12-L70-S

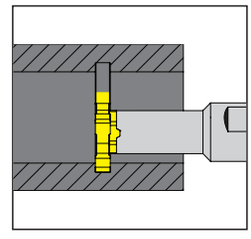
ø Ds 21.7







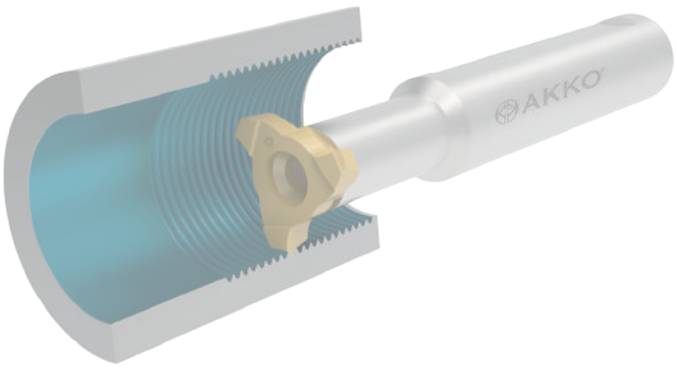


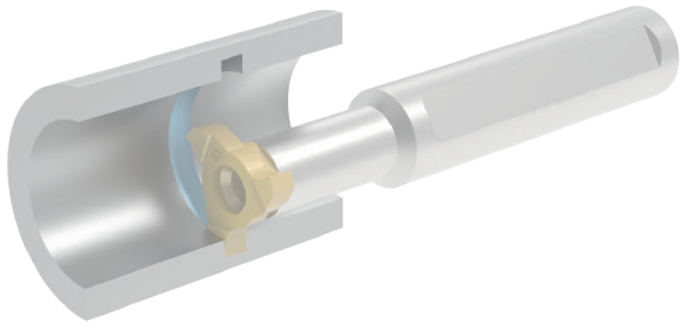


Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*							Kalite *Grade* *Sorte*
		Ds	W	R	tmax	S	Z	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG	
MM2203.G.0150.010.2177	○	21.7	1.5	0.1	4.5	5.7	3	....-MM2203-...	VP3001
MM2203.G.0200.020.2177	○	21.7	2.00	0.2	4.5	5.7	3		VP3001
MM2203.G.0250.020.2177	○	21.7	2.5	0.2	4.5	5.7	3		VP3001
MM2203.G.0300.020.2177	○	21.7	3	0.2	4.5	5.7	3		VP3001
MM2203.G.0350.020.2177	○	21.7	3.5	0.2	4.5	5.7	3		
MM2203.G.0400.020.2177	○	21.7	4	0.2	4.5	5.7	3		

● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück MM2203.G.0150.010.2177





DİĞER PROFİL ÇEŞİTLERİ / *THE OTHER PROFILE TYPES* / ANDERE PROFIL-TYPEN

THREAD PROFILE

GEAR PROFILE

RADIUS GROVE PROFILE

CIRCLIP PROFILE

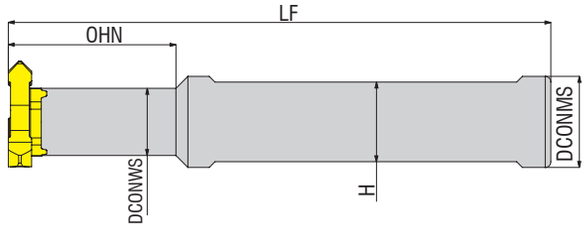
CHAMFER PROFILE

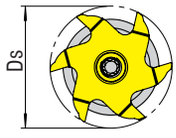
SPECIAL PROFILE

*Diğer profil uçlar özel taleplere göre üretilmektedir. / *Profiled inserts are manufactured according to customer special requirements. /*
Die Profil-Wendeschneidplatten werden nach Kundenwunsch gefertigt.

ø Ds 27.7

ÇELİK ŞAFT
STEEL SHAFT
STAHL SCHAFT

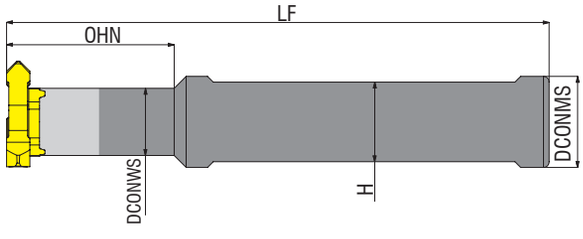


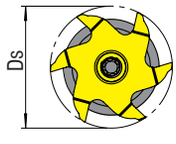


Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*					Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Klemmschraube*	Tork Anahtar *Torx Key* *Torx Innensechskantschlüssel*
		DCONMS	DCONWS	LF	OHN	H			
AMM-MM2806-W12-L70-S	○	12	14.5	70	20	11	**MM2806**	1020-M5x14	80-T20
AMM-MM2806-W16-L90-S	○	16	14.5	90	36	15			
AMM-MM2806-W20-L100-S	○	20	14.5	100	36	18			

ø Ds 27.7

KARBÜR ŞAFT
CARBIDE SHAFT
HARTMETALLSCHAFT



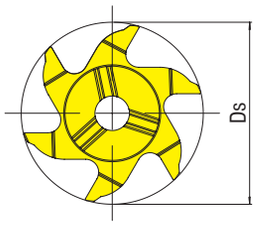


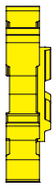
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*					Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Klemmschraube*	Tork Anahtar *Torx Key* *Torx Innensechskantschlüssel*
		DCONMS	DCONWS	LF	OHN	H			
AMM-MM2806-W16-L100-C	○	16	14.5	100	42	-	**MM2806...**	1020-M5x14	80-T20
AMM-MM2806-W16-L125-C	○	16	14.5	125	60				
AMM-MM2806-W20-L125-C	○	20	14.5	125	60	-			
AMM-MM2806-W20-L160-C	○	20	14.5	160	85				

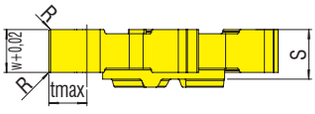
● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

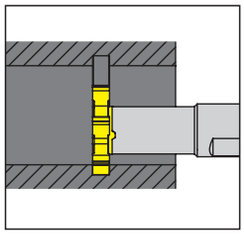
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück AMM-MM2806-W12-L70-S

ø Ds 27.7





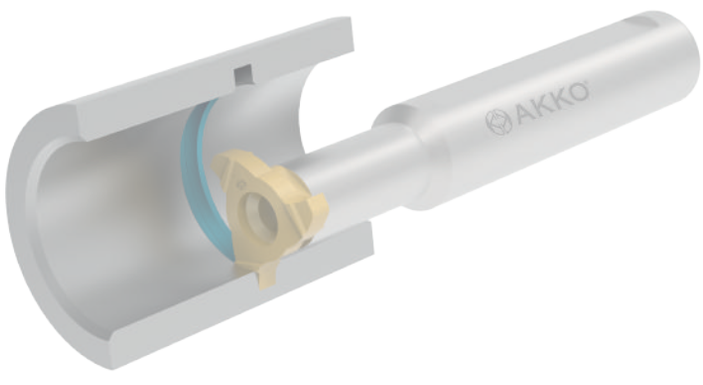


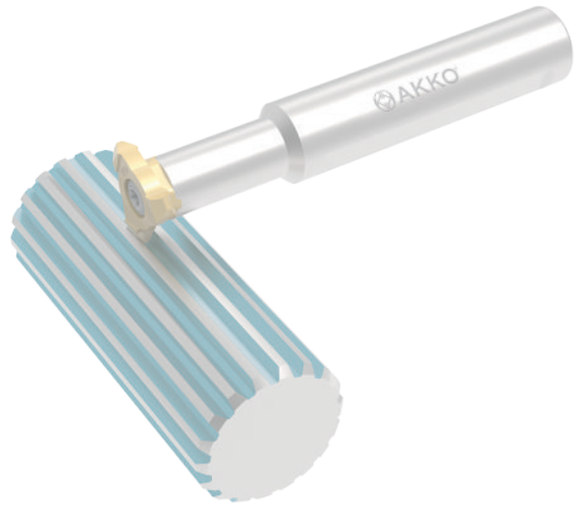


Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*							Kalite *Grade* *Sorte*
		Ds	W	R	tmax	S	Z	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG	
MM2806.G.0250.020.2770	○	27.7	2.5	0.2	6.5	5.9	6	....-MM2806-...	VP3001
MM2806.G.0300.020.2770	○	27.7	3.00	0.2	6.5	5.9	6		VP3001
MM2806.G.0350.020.2770	○	27.7	3.5	0.2	6.5	5.9	6		VP3001
MM2806.G.0400.020.2770	○	27.7	4.00	0.2	6.5	5.9	6		VP3001
MM2806.G.0450.020.2770	○	27.7	4.5	0.2	6.5	5.9	6		VP3001
MM2806.G.0500.020.2770	○	27.7	5.00	0.2	6.5	5.9	6		VP3001

● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück MM2806.G.0250.020.2770





DİĞER PROFİL ÇEŞİTLERİ / *THE OTHER PROFILE TYPES* / ANDERE PROFIL-TYPEN

THREAD PROFILE

GEAR PROFILE

RADIUS GROVE PROFILE

CIRCLIP PROFILE

CHAMFER PROFILE

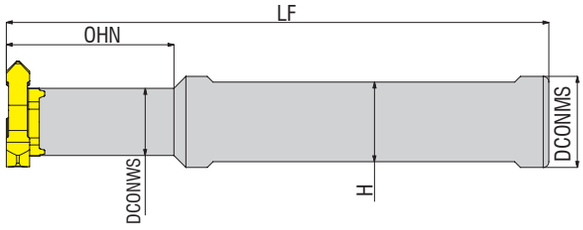
SPECIAL PROFILE

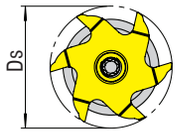
*Diğer profil uçlar özel taleplere göre üretilmektedir. / *Profiled inserts are manufactured according to customer special requirements. /*
Die Profil-Wendeschneidplatten werden nach Kundenwunsch gefertigt.

ø Ds 31.7

ÇELİK ŞAFT
STEEL SHAFT
STAHL SCHAFT

new



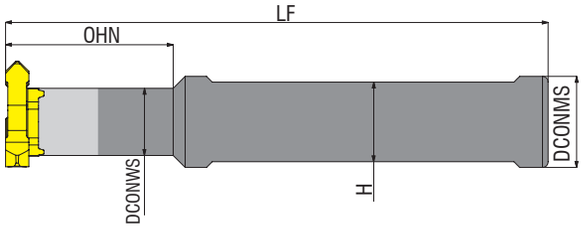


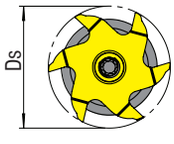
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*					Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*	
								Sıkma Vidası *Screw* *Klemmschraube*	Tork Anahtar *Torx Key* *Torx Innensechskantschlüssel*
		DCONMS	DCONWS	LF	OHN	H			
AMM-MM3306-W16-L90-S	○	16	14.5	90	36	15	**MM3306...**	1020-M5x14	80-T20
AMM-MM3306-W20-L100-S	○	20	14.5	100	36	18			

ø Ds 31.7

KARBÜR ŞAFT
CARBIDE SHAFT
HARTMETALLSCHAFT

new



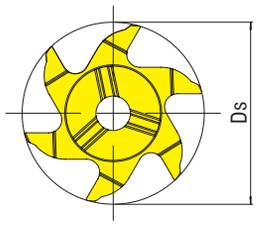


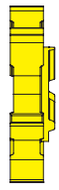
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*					Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*	
								Sıkma Vidası *Screw* *Klemmschraube*	Tork Anahtar *Torx Key* *Torx Innensechskantschlüssel*
		DCONMS	DCONWS	LF	OHN	H			
AMM-MM3306-W16-L100-C	○	16	14.5	100	42		**MM3306...**	1020-M5x14	80-T20
AMM-MM3306-W16-L125-C	○	16	14.5	125	60	-			
AMM-MM3306-W20-L100-C	○	20	14.5	100	42				
AMM-MM3306-W20-L125-C	○	20	14.5	125	60	-			
AMM-MM3306-W20-L160-C	○	20	14.5	160	85				

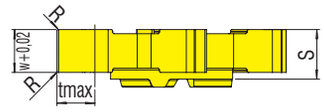
● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

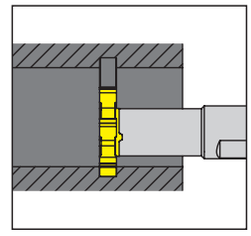
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück AMM-MM3306-W16-L90-S

ø Ds 31.7





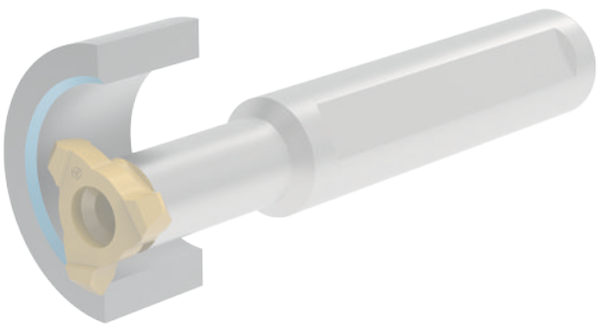


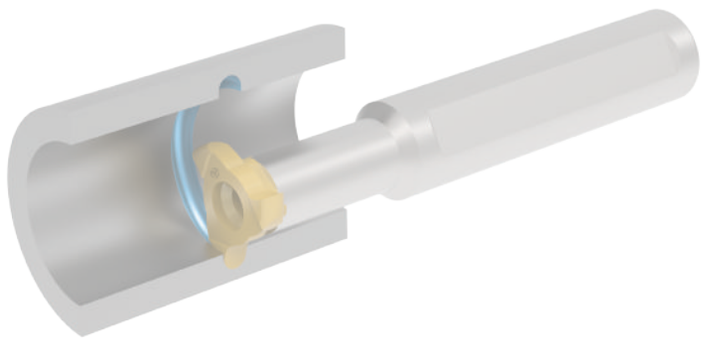


Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*							Kalite *Grade* *Sorte*
		Ds	W	R	tmax	S	Z	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG	
MM3306.G.0200.020.3170	○	31.7	2.0	0.2	8.3	5.9	6	....-MM3306-...	VP3001
MM3306.G.0250.020.3170	○	31.7	2.5	0.2	8.3	5.9	6		VP3001
MM3306.G.0300.020.3170	○	31.7	3.0	0.2	8.3	5.9	6		VP3001
MM3306.G.0400.020.3170	○	31.7	4.0	0.2	8.3	5.9	6		VP3001

● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück MM3306.G.0200.020.3170

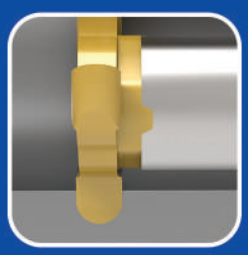




DİĞER PROFİL ÇEŞİTLERİ / *THE OTHER PROFILE TYPES* / ANDERE PROFIL-TYPEN

THREAD PROFILE

GEAR PROFILE



RADIUS GROVE PROFILE

CIRCLIP PROFILE

CHAMFER PROFILE

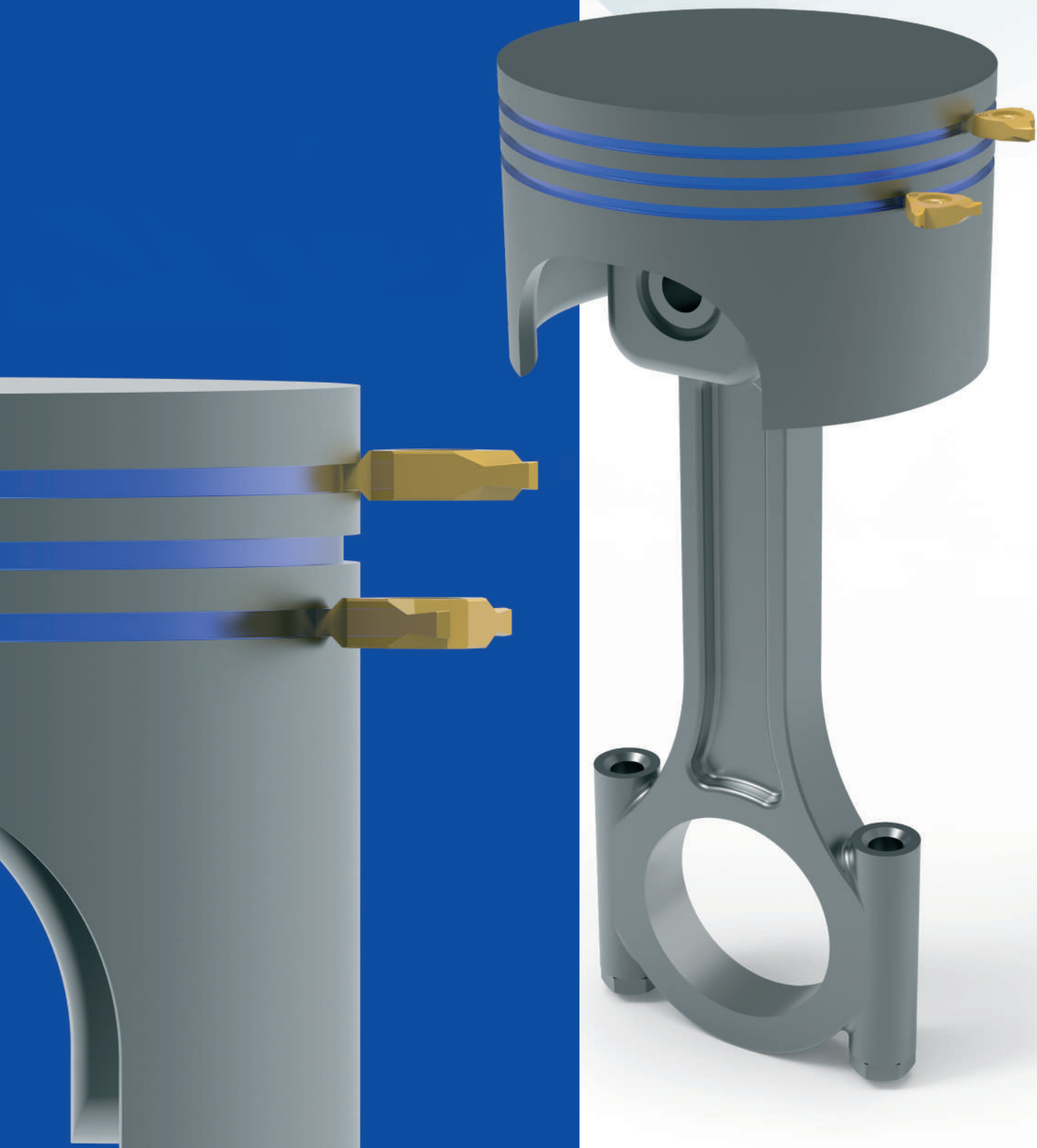
SPECIAL PROFILE

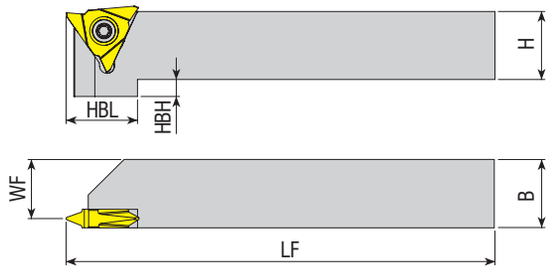
*Diğer profil uçlar özel taleplere göre üretilmektedir. / *Profiled inserts are manufactured according to customer special requirements. /*
Die Profil-Wendeschneidplatten werden nach Kundenwunsch gefertigt.

SEGMAN UÇLARI ve TAKIMLARI

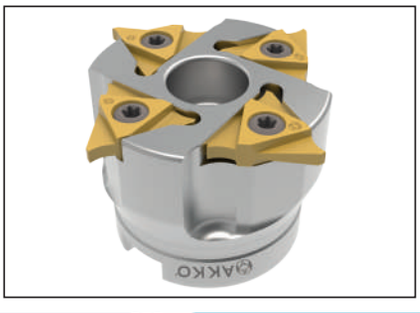
RING INSERTS and TOOLHOLDERS

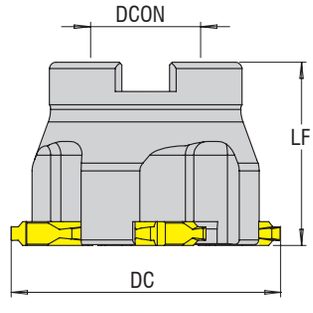
RINGEINSÄTZE und WERKZEUGHALTER





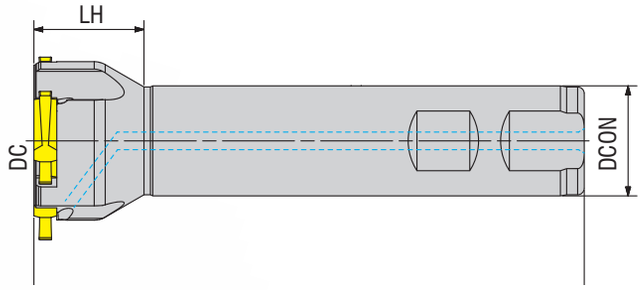
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager* R	L	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* H	B	WF	LF	HBL	HBH	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
ADKT-T12P-R/L-1616-T5	●	●	16	16	13.50	125	21	5	T12…	1020-M5x14	80-T20
ADKT-T12P-R/L-2020-T5	●	●	20	20	17.50	125	21	5			
ADKT-T12P-R/L-2525-T5	●	●	25	25	22.50	150	-	-			
ADKT-T12P-R/L-3232-T5	●	●	32	32	29.50	170	-	-			



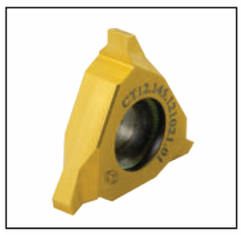


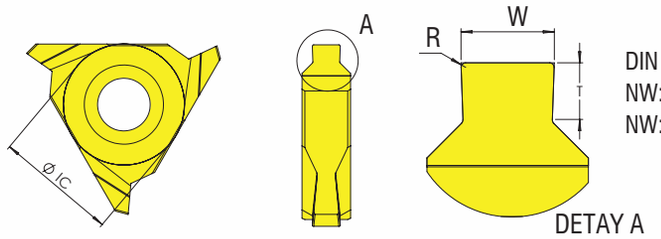
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* DC	ZEFP	DCON	LF	APMX	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
ASFM-T12-D60x5.2-A22-Z04	60	4	22	40	-	T12…	1020-M5x14	80-T20

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ADKT-T12P-R/L-1616-T5



Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*						Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
	DC	ZEFP	DCON	LF	LH	APMX			
ASEM-T12-D45-W25-L125-Z03-H	45	3	25	125	25	-	**T12...**	1020-M5x14	80-T20



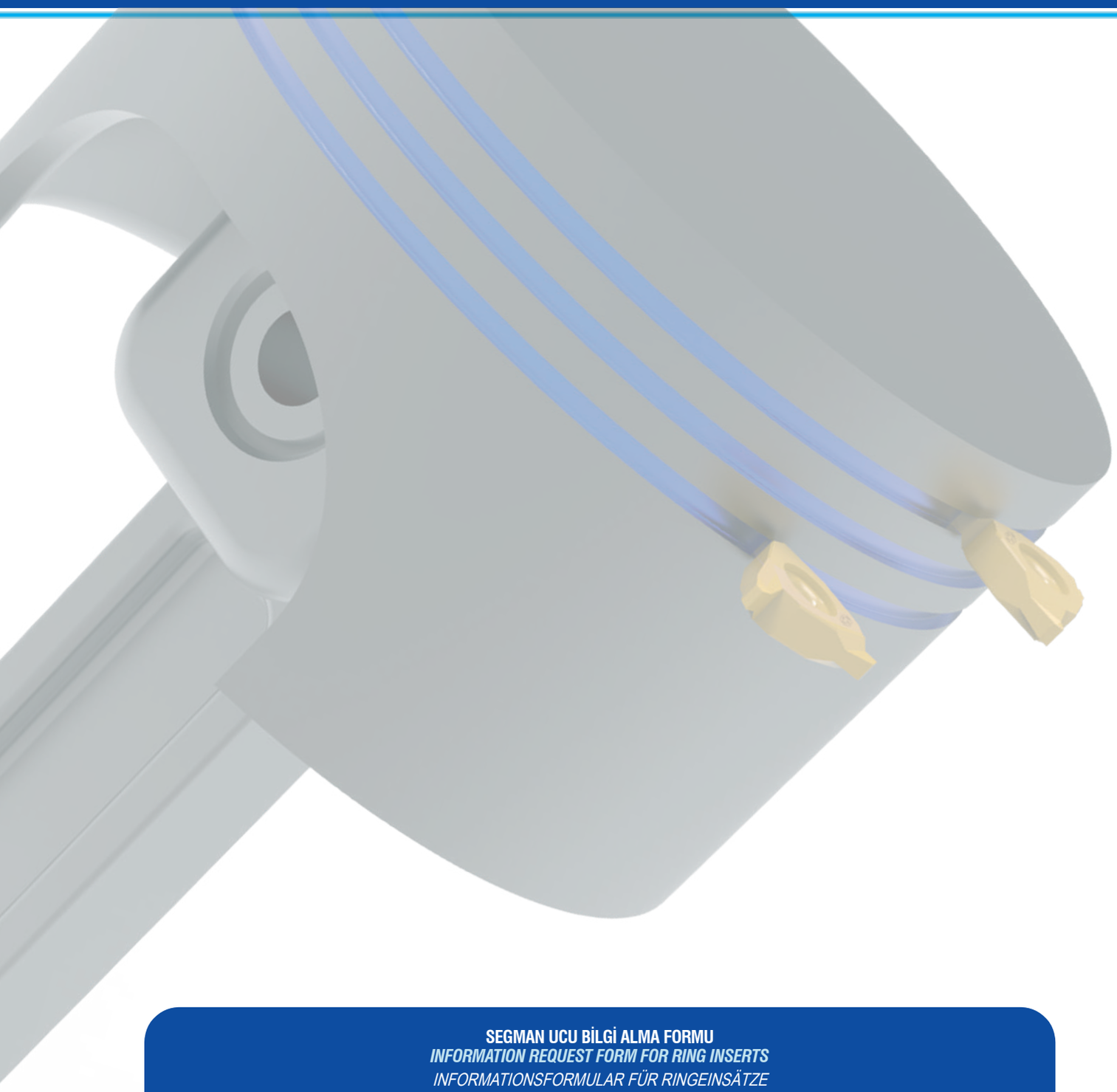


DIN 471/472_DIN 983/984
NW: NOMINAL SEGMAN KALINLIĞI
NW: NOMINAL CIRCLIP THICKNESS

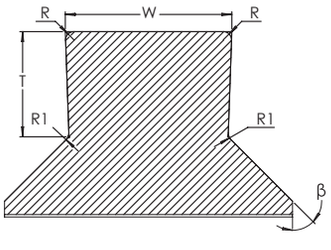
Ürün Kodu *Product Code* *Artikelnummer*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*				
		IC	Nw	W	R	T
ASK-125-13	●	13	1.10	1.25	0.2	1.3
ASK-135-13	●	13	1.20	1.35	0.2	1.3
ASK-145-13	●	13	1.30	1.45	0.2	1.3
ASK-150-13	●	13	1.35	1.5	0.2	1.3
ASK-165-18	●	13	1.50	1.65	0.2	1.8
ASK-175-18	●	13	1.60	1.75	0.2	1.8
ASK-185-23	●	13	1.70	1.85	0.2	2.3
ASK-200-23	●	13	1.85	2	0.2	2.3
ASK-220-33	●	13	2.05	2.2	0.2	3.3
ASK-230-33	●	13	2.15	2.3	0.2	3.3
ASK-250-33	●	13	2.35	2.5	0.3	3.3
ASK-265-33	●	13	2.50	2.65	0.3	3.3
ASK-270-33	●	13	2.55	2.7	0.3	3.3
ASK-280-33	●	13	2.65	2.8	0.3	3.3
ASK-300-33	●	13	2.85	3	0.3	3.3
ASK-320-33	●	13	3.05	3.2	0.3	3.3
ASK-330-33	●	13	3.15	3.3	0.3	3.3
ASK-350-38	●	13	3.35	3.5	0.3	3.8
ASK-370-38	●	13	3.55	3.7	0.3	3.8
ASK-390-38	●	13	3.75	3.9	0.3	3.8
ASK-400-38	●	13	3.85	4	0.3	3.8

● Stokta / In Stock /*Auf Lager* ○Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ASEM-T12-D45-W25-L125-Z03-H



SEGMAN UCU BİLGİ ALMA FORMU
INFORMATION REQUEST FORM FOR RING INSERTS
INFORMATIONSFORMULAR FÜR RINGEINSÄTZE

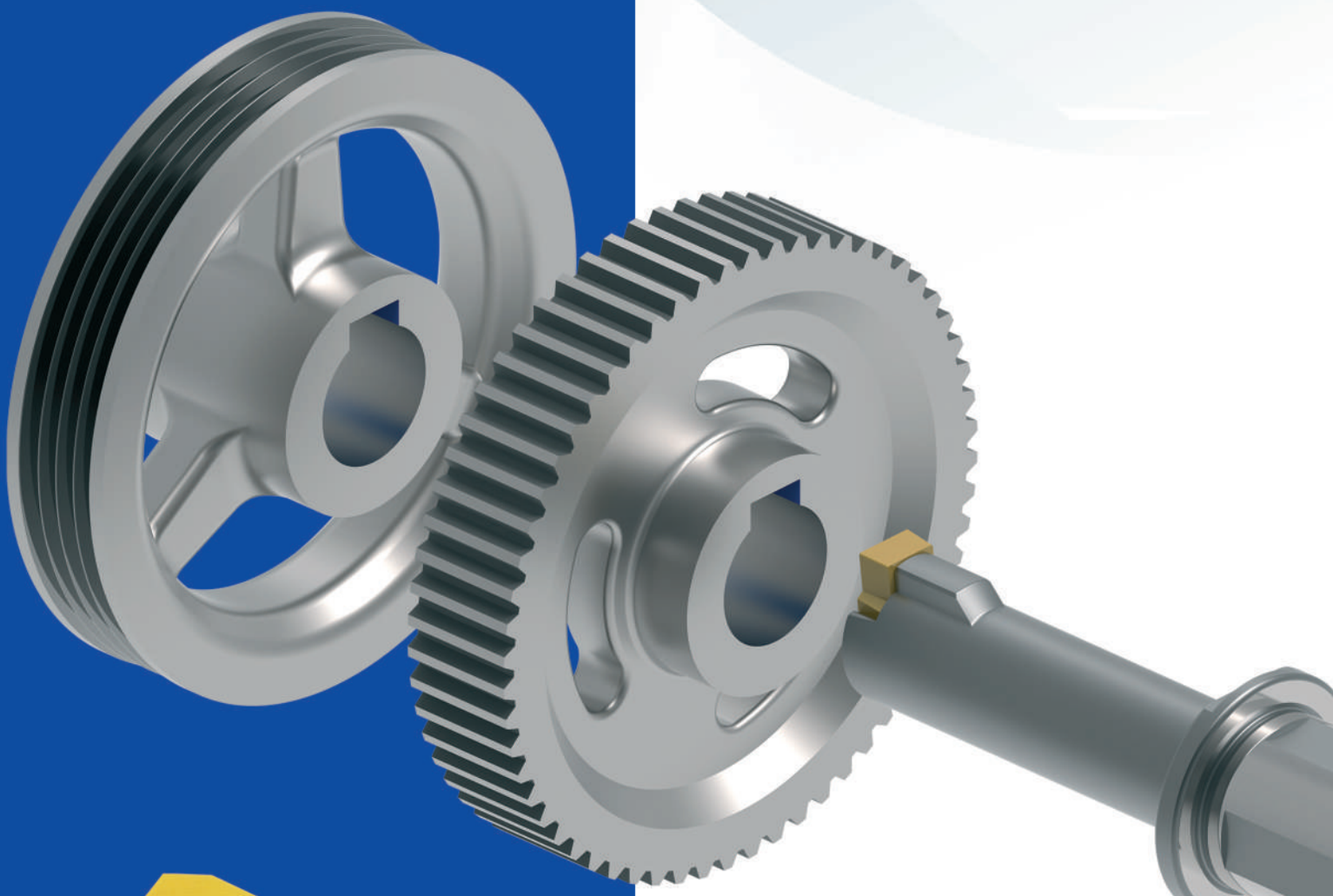
W :		
R :		
R1 :		
β :		

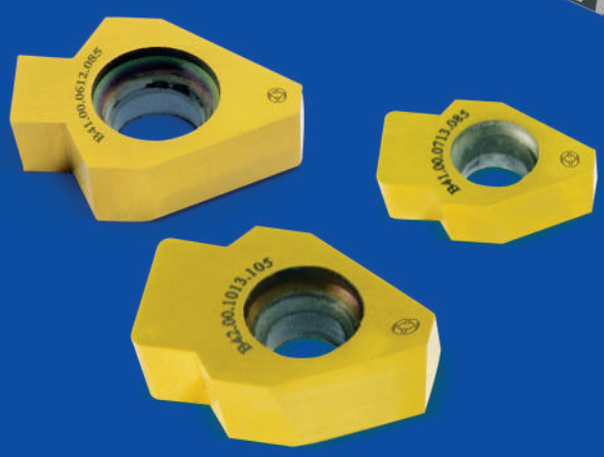
BROŞ

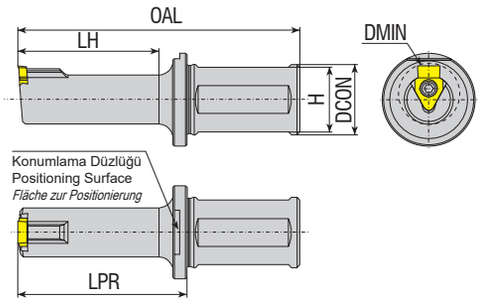
BROŞ ÇEKME UÇLARI ve TAKIMLARI

BROACHING INSERTS and TOOLHOLDERS

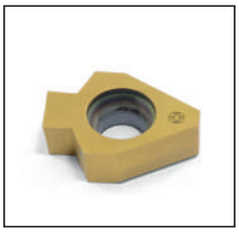
WENDESCHNEIDPLATTEN und WERKZEUGHALTER FÜR DIE NUTBEARBEITUNG



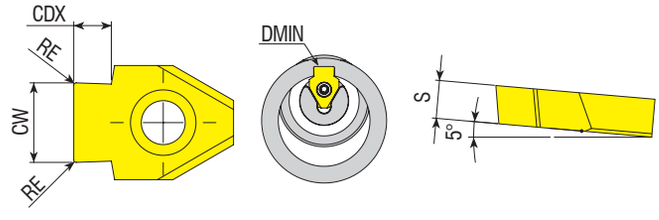




Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* DMIN	LH	DCON	OAL	LPR	H	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
new ABT-B41-D14-Y25-L90-I040	●	14	40	25	90	50	23	**B41…**	4015-M4x11	80-T15
ABT-B41-D17-Y25-L90-I040	●	17	40	25	90	50	23			
ABT-B41-D17-Y25-L105-I065	●	17	65	25	105	75	23			
ABT-B41-D22-Y25-L100-I050	●	22	50	25	100	60	23			
ABT-B41-D22-Y25-L125-I070	●	22	70	25	125	80	23			
ABT-B42-D30-Y32-L100-I050	●	30	50	32	100	60	30	**B42…**	1020-M5x14	80-T20
ABT-B42-D30-Y32-L125-I075	●	30	75	32	125	85	30			
ABT-B42-D30-Y32-L170-I110	●	30	110	32	170	120	30			
ABT-B42-D38-Y32-L100-I050	●	38	50	32	100	60	30			
ABT-B42-D38-Y32-L125-I075	●	38	75	32	125	85	30			
ABT-B42-D40-Y32-L100-I050	●	40	50	32	100	60	30			
ABT-B42-D40-Y32-L125-I075	●	40	75	32	125	85	30			



DIN138 (Tolerans C11) torna ve freze tezgahlarında broş çekme uçları.
DIN138 (Tolerance C11) inserts for keyway broaching on lathe and milling machines.
DIN 138 (Toleranz C11) Wendeplatten für Keilnutenfertigung auf Dreh- und Fräsmaschinen



Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* CW	RE	CDX	S	DMIN	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG
B41.00.0612.085.VP3001	●	6.12	0.85	2.6	4.0	22	ABT-B41-D22…
B41.00.0713.085.VP3001	●	7.13	0.85	3.3	4.0	22	
B41.00.0813.105.VP3001	●	8.13	1.05	3.4	4.0	22	
B42.00.1013.105.VP3001	●	10.13	1.05	4.2	6.0	30	ABT-B42-D30…
B42.00.1215.135.VP3001	●	12.15	1.35	5.1	6.0	38	ABT-B42-D38…
B42.00.1215.175.VP3001	●	12.15	1.75	6.6	6.0	38	
B42.00.1215.225.VP3001	●	12.15	2.25	8.5	6.0	38	

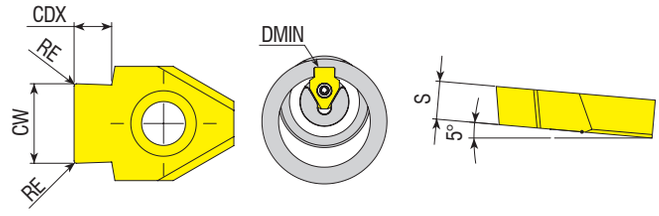
Tipik kesme şartları / *Typical cutting conditions Tipik kesme şartları / Typical cutting conditions / Standard-Schneidbedingungen: İlerleme (Vf): 3000-8000 mm/dak (min) / Paso (ap): 0.02-0.08 mm / Vorschub (Vf): 3000-8000 mm/min*

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*

● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stückABT-B41-D14-Y25-L90-I040

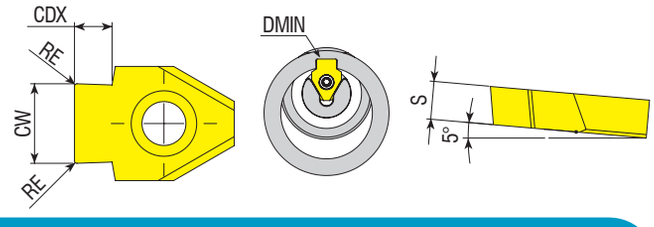
DIN138 (Tolerans D10) torna ve freze tezgahlarında broş çekme uçları.
DIN138 (Tolerance D10) inserts for keyway broaching on lathe and milling machines.
DIN 138 (Toleranz D10) Wendeplatten für Keilnutenfertigung auf Dreh- und Fräsmaschinen



Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*					
		CW	RE	CDX	S	DMIN	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG
B41.00.0407.012.VP3001	○	4.07	0.12	2.2	4.0	14	ABT-B41-D14…
B41.00.0507.020.VP3001	○	5.07	0.2	2.9	4.0	14	
B41.00.0607.020.VP3001	○	6.07	0.2	3.5	4.0	17	ABT-B41-D17…
B41.00.0808.020.VP3001	○	8.08	0.2	4.3	4.0	22	ABT-B41-D22…
B42.00.1008.030.VP3001	○	10.08	0.3	4.4	6.0	30	ABT-B42-D30…
B42.00.1210.030.VP3001	○	12.10	0.3	5.9	6.0	38	ABT-B42-D38…
B42.00.1410.030.VP3001	○	14.10	0.3	6.8	6.0	40	ABT-B42-D40…

Tipik kesme şartları / *Typical cutting conditions Tipik kesme şartları / Typical cutting conditions / Standard-Schneidbedingungen: İlerleme (Vf): 3000-8000 mm/dak (min) / Paso (ap): 0.02-0.08 mm / Vorschub (Vf): 3000-8000 mm/min*

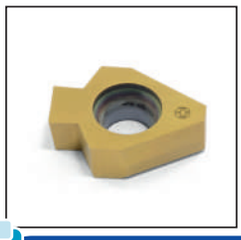
DIN6885 (Tolerans P9) torna ve freze tezgahlarında broş çekme uçları.
DIN6885 (Tolerance P9) inserts for keyway broaching on lathe and milling machines.
DIN6885 (Toleranz P9) Wendeplatten für Keilnutenfertigung auf Dreh- und Fräsmaschinen



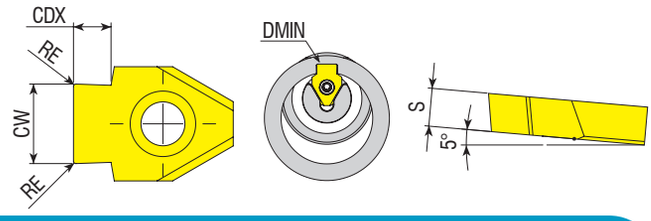
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnungeidplatte*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*					
		CW	RE	CDX	S	DMIN	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG
B41.00.0498.020.VP3001	●	4.98	0.20	2.7	4.0	17	ABT-B41-D17
B41.00.0598.020.VP3001	●	5.98	0.20	3.4	4.0	17	
B41.00.0798.020.VP3001	●	7.98	0.20	4.1	4.0	22	ABT-B41-D22
B42.00.0998.030.VP3001	●	9.98	0.30	4.2	6.0	30	ABT-B42-D30
B42.00.1197.030.VP3001	●	11.97	0.30	5.7	6.0	38	ABT-B42-D38
B42.00.1397.030.VP3001	●	13.97	0.30	6.8	6.0	40	ABT-B42-D40

Tipik kesme şartları / Typical cutting conditions / Standard-Schneidbedingungen: İlerleme (Vf): 3000-8000 mm/dak (min) / Paso (ap): 0.02-0.08 mm / Vorschub (Vf): 3000-8000 mm/min

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück B41.00.0407.012.VP3001



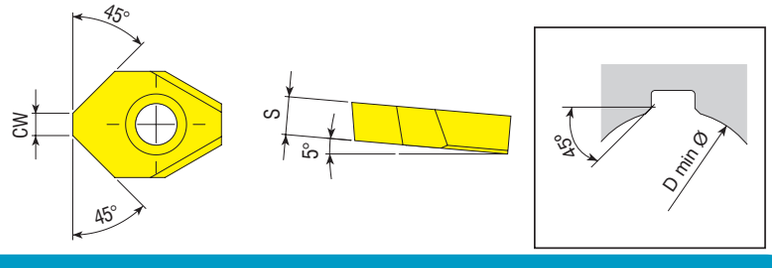
DIN6885 (Tolerans JS9) torna ve freze tezgahlarında broş çekme uçları.
DIN6885 (Tolerance JS9) inserts for keyway broaching on lathe and milling machines.
DIN6885 (Toleranz JS9) Wendeplatten für Keilnutenfertigung auf Dreh- und Fräsmaschinen



Uç Kodu *Insert Code* *Wendeplatten-Bezeichnungeidplatte*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*					
		CW	RE	CDX	S	DMIN	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG
B41.00.0301.020.VP3001	●	3.01	0.20	3.0	4.0	17	ABT-B41-3.01-D17-...
B41.00.0501.020.VP3001	●	5.01	0.20	2.7	4.0	17	ABT-B41-D17
B41.00.0601.020.VP3001	●	6.01	0.20	3.4	4.0	17	
B41.00.0801.020.VP3001	●	8.01	0.20	4.1	4.0	22	ABT-B41-D22
B42.00.1001.030.VP3001	●	10.01	0.30	4.2	6.0	30	ABT-B42-D30
B42.00.1200.050.VP3001	●	12.00	0.50	8.5	6.0	38	ABT-B42-D38
B42.00.1201.030.VP3001	●	12.01	0.30	5.7	6.0	38	
B42.00.1401.030.VP3001	●	14.01	0.30	6.8	6.0	40	ABT-B42-D40

Tipik kesme şartları / Typical cutting conditions / Standard-Schneidbedingungen: İlerleme (Vf): 3000-8000 mm/dak (min) / Paso (ap): 0.02-0.08 mm / Vorschub (Vf): 3000-8000 mm/min

Torna ve freze tezgahlarında kama kanalı pah kırma uçları.
Inserts for keyway chamfering on lathe and milling machines.
Wendeschneidplatten zum Anfasen von Keilnuten auf Dreh- und Fräsmaschinen



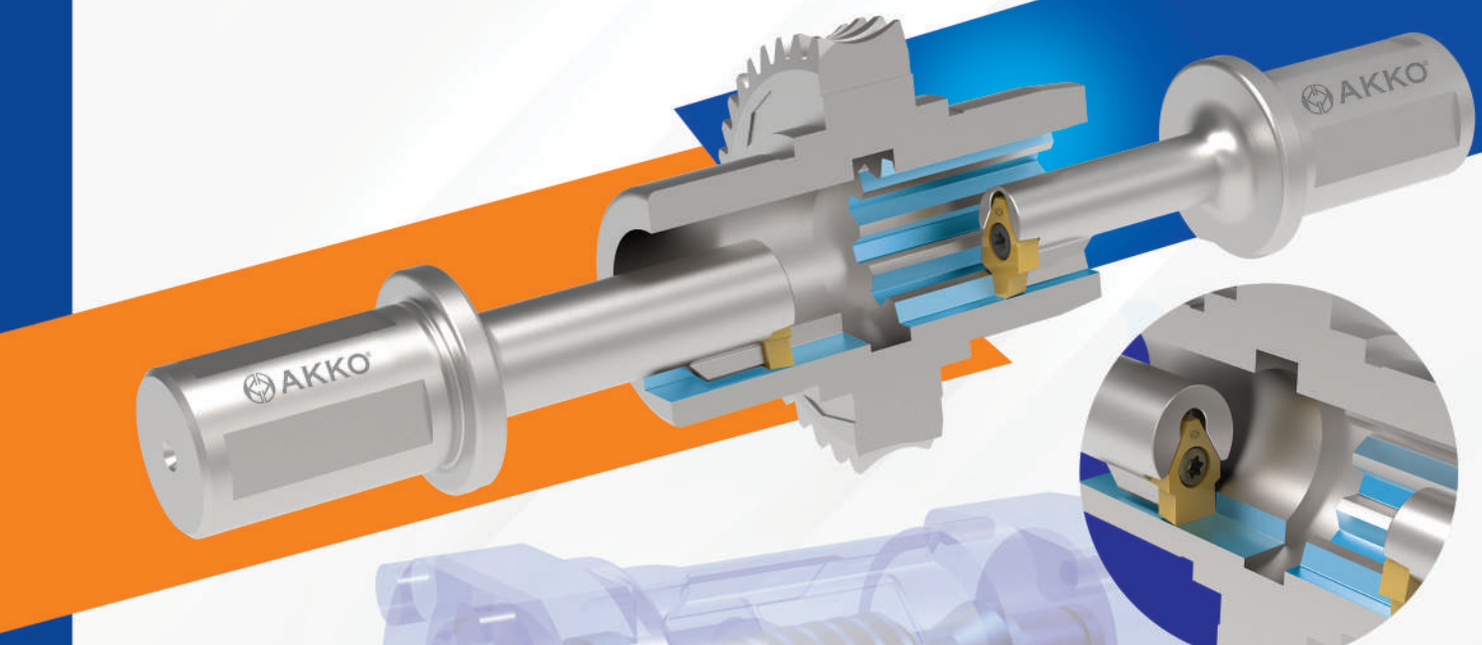
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnungeidplatte*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*			
		DMIN	CW	S	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG
B41.00.0150.CH.VP3001	●	17	1.5	4.0	ABT-B41-D17
B41.00.0300.CH.VP3001	●	22	3.0	4.0	ABT-B41-D22
B42.00.0600.CH.VP3001	●	30	6.0	6.0	ABT-B42-D30

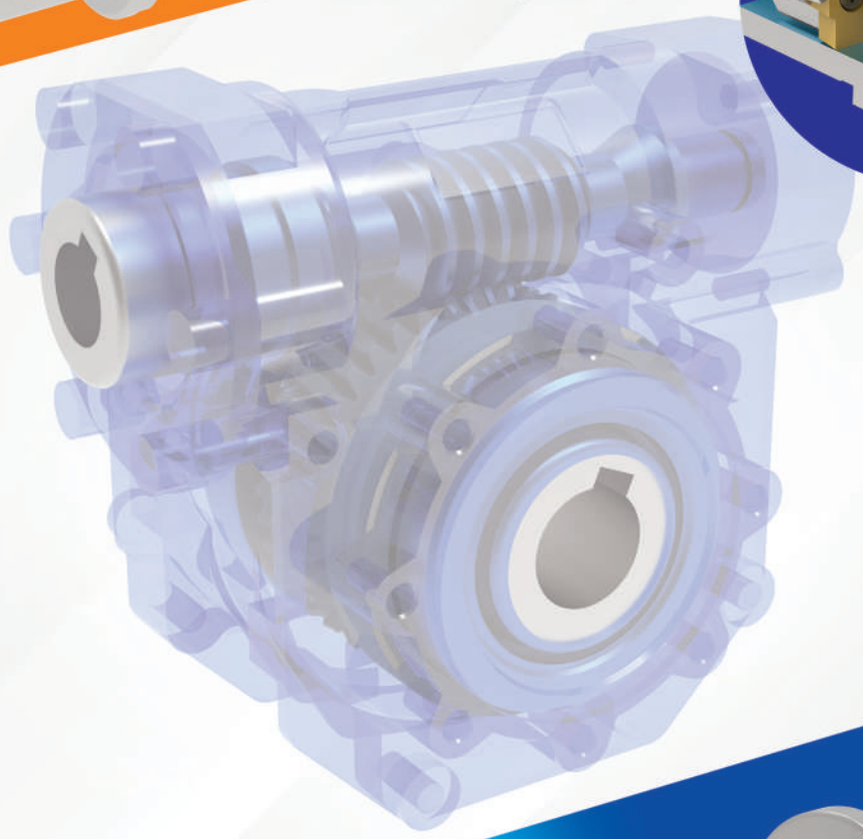
Tipik kesme şartları / Typical cutting conditions / Standard-Schneidbedingungen: İlerleme (Vf): 3000-8000 mm/dak (min) / Paso (ap): 0.02-0.08 mm / Vorschub (Vf): 3000-8000 mm/min

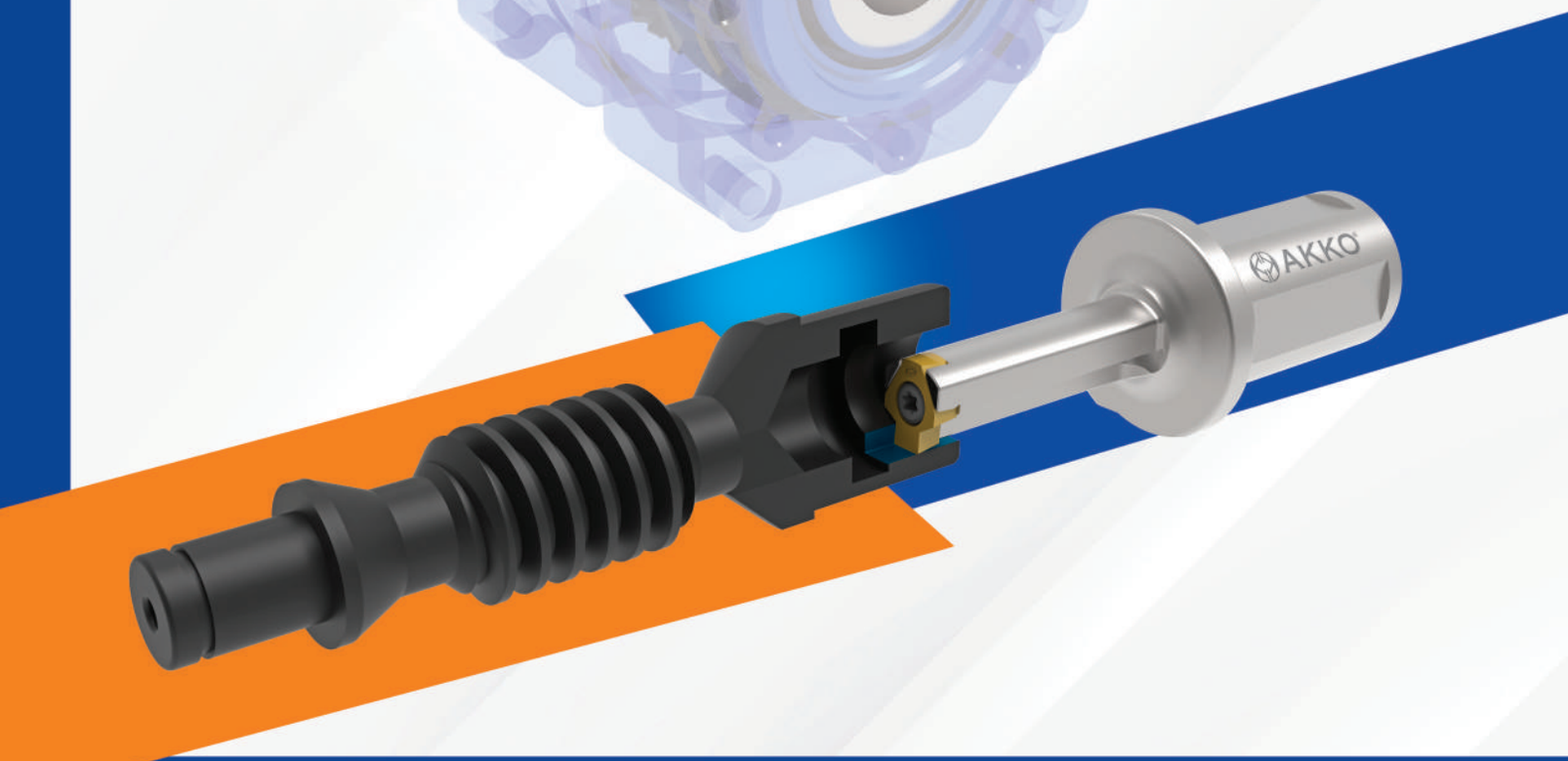
R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück B41.00.0501.020.VP3001

BROŞ ÖZEL ÇÖZÜMLER
SPECIAL SOLUTIONS FOR BROACHING
NUTBEARBEITUNG SPEZIELLE LÖSUNGEN







PROFİL VERİLMİŞ UÇLAR / PROFILED INSERTS / PROFIL-WENDESCHNEIDPLATTEN
ÖRNEK PROFİLLER / EXAMPLES OF PROFILES / *BEISPIELE FÜR PROFILE*

Profil uçlar müşterilerimizin özel taleplerine göre üretilmektedir.
Profiled inserts are manufactured according to customer special requirements.
Die Profil-Wendeschneidplatten werden nach Kundenwunsch gefertigt.

1. ***Üretmemizi istediğiniz Ucun teknik özelliklerini veya bir örneğini bize gönderin.***
Send us the technical specifications or a sample of the insert you want to produce.
Bitte lassen Sie uns ein exemplar sowie die technischen Einzelheiten der gewünschten Wendeschneidplatte zukommen.

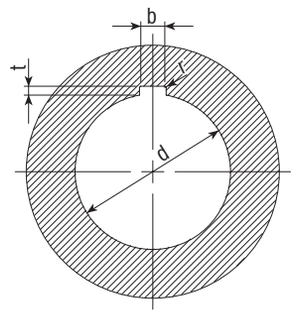
2. ***Sizin için bir teklif hazırlayalım.***
We prepare an offer for you.
Wir werden für Sie ein Angebot vorbereiten.

3. ***Üretimi yapıp size gönderelim.***
We produce it and ship it to you.
Wir werden es produzieren und Ihnen ausliefern.

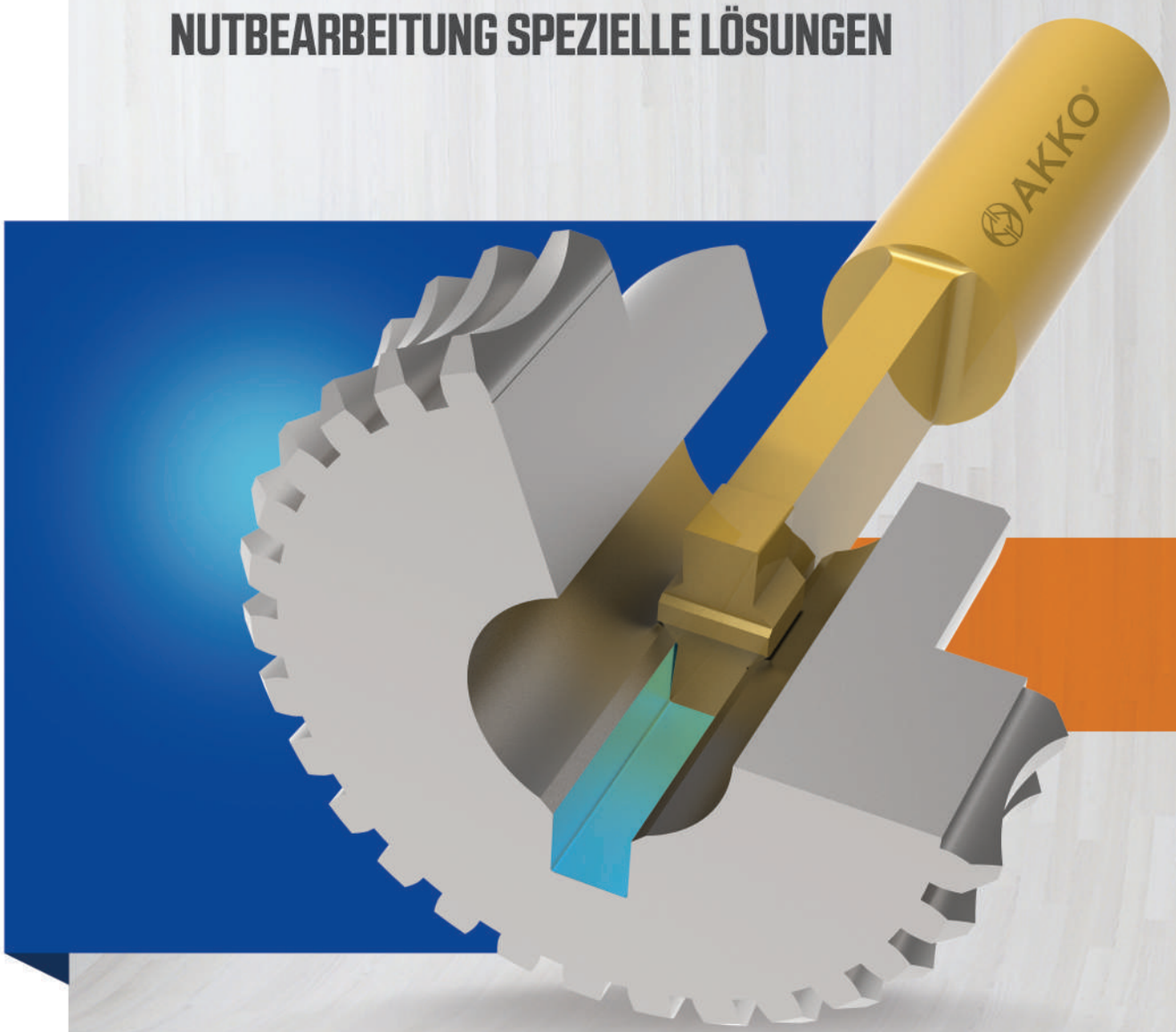
BROŞ UCU BİLGİ ALMA FORMU / *BROACHING INSERT INFORMATION FORM* / *INFORMATIONSBLATT FÜR DIE WENDESCHNEIDPLATTE DER NUTBEARBEIUNG*

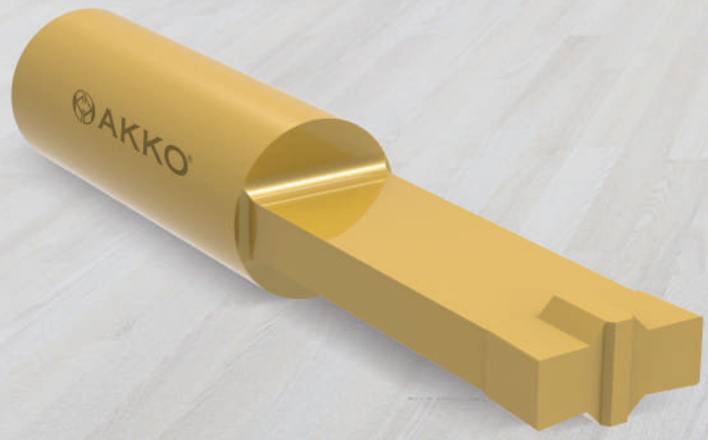
Broş ve Delik Ölçüleri / *Dimension of Bore* / *Maße von Bohrungsdurchmesser und Nuten*

b			
t			
r			
d/min*			
İş Parçası Malzemesi *Work Material* *Werkstückmaterial*			
Tolerans Grubu / *Tolerane Group* / *Toleranzgruppe*			
C11	**P9**	**JS9**	**CUSTOM**



BROŞ ÖZEL ÇÖZÜMLER
SPECIAL SOLUTIONS FOR BROACHING
NUTBEARBEITUNG SPEZIELLE LÖSUNGEN

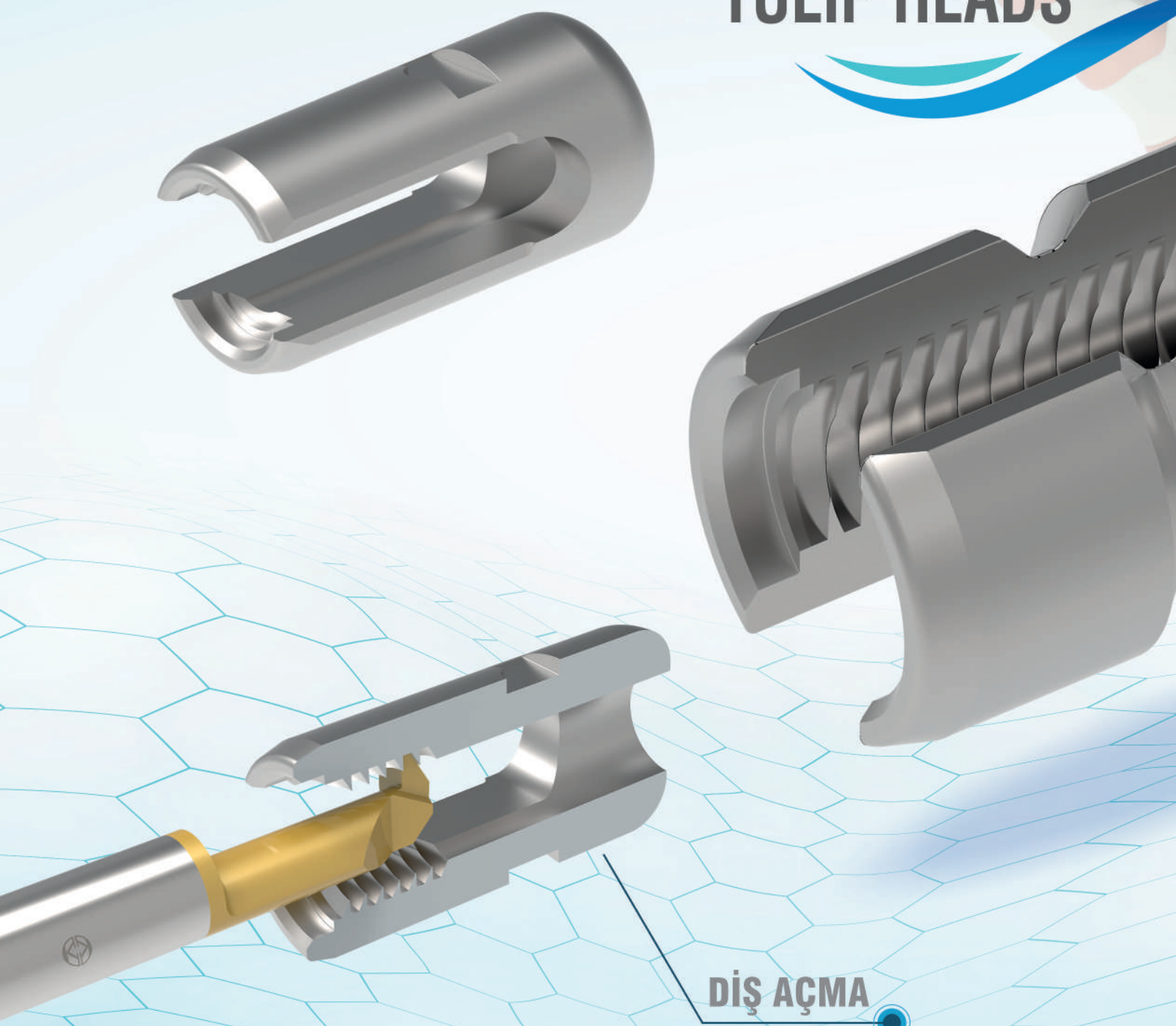




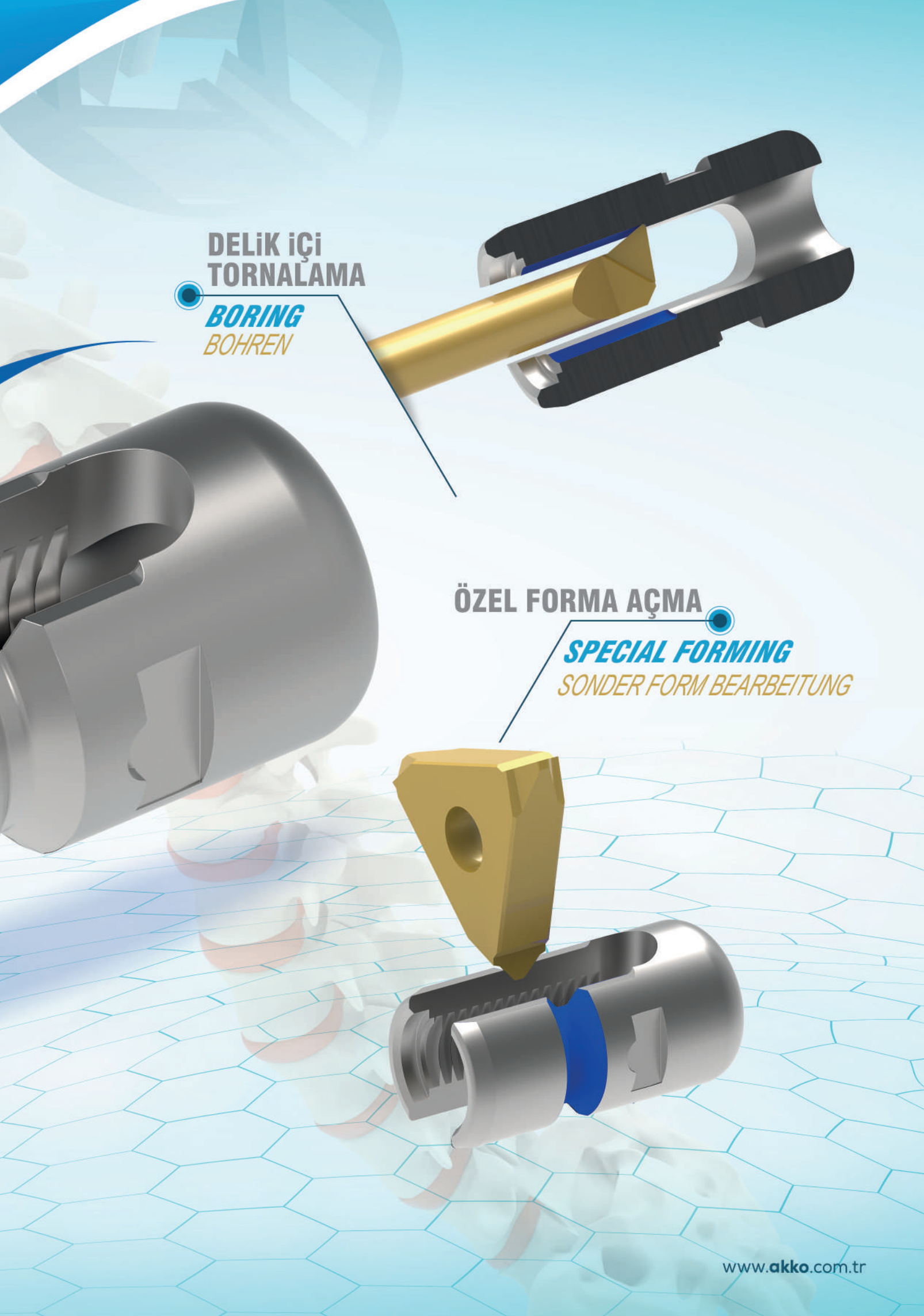
AKKO

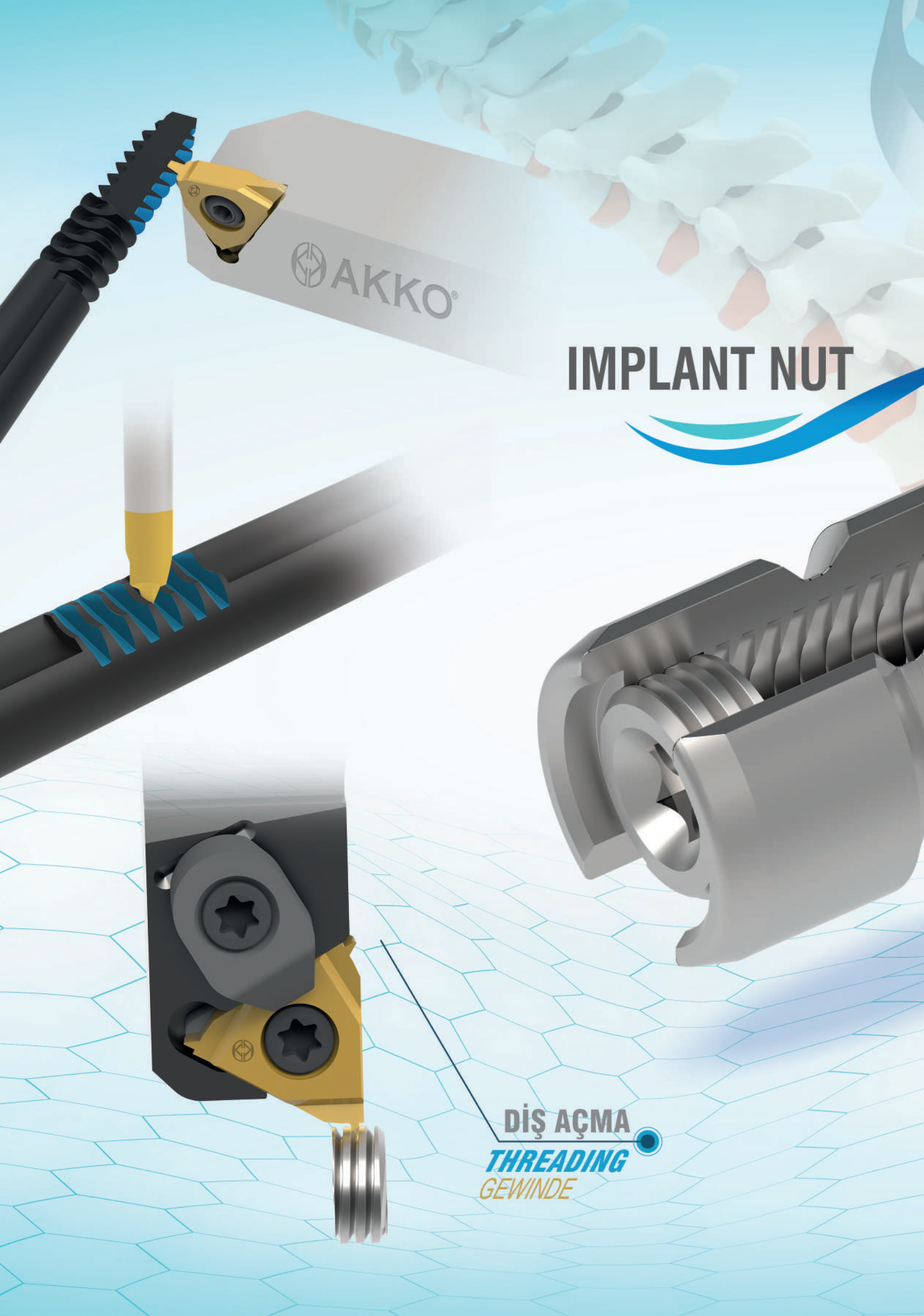
AKKO® Medikal MEDICAL Medizinisch

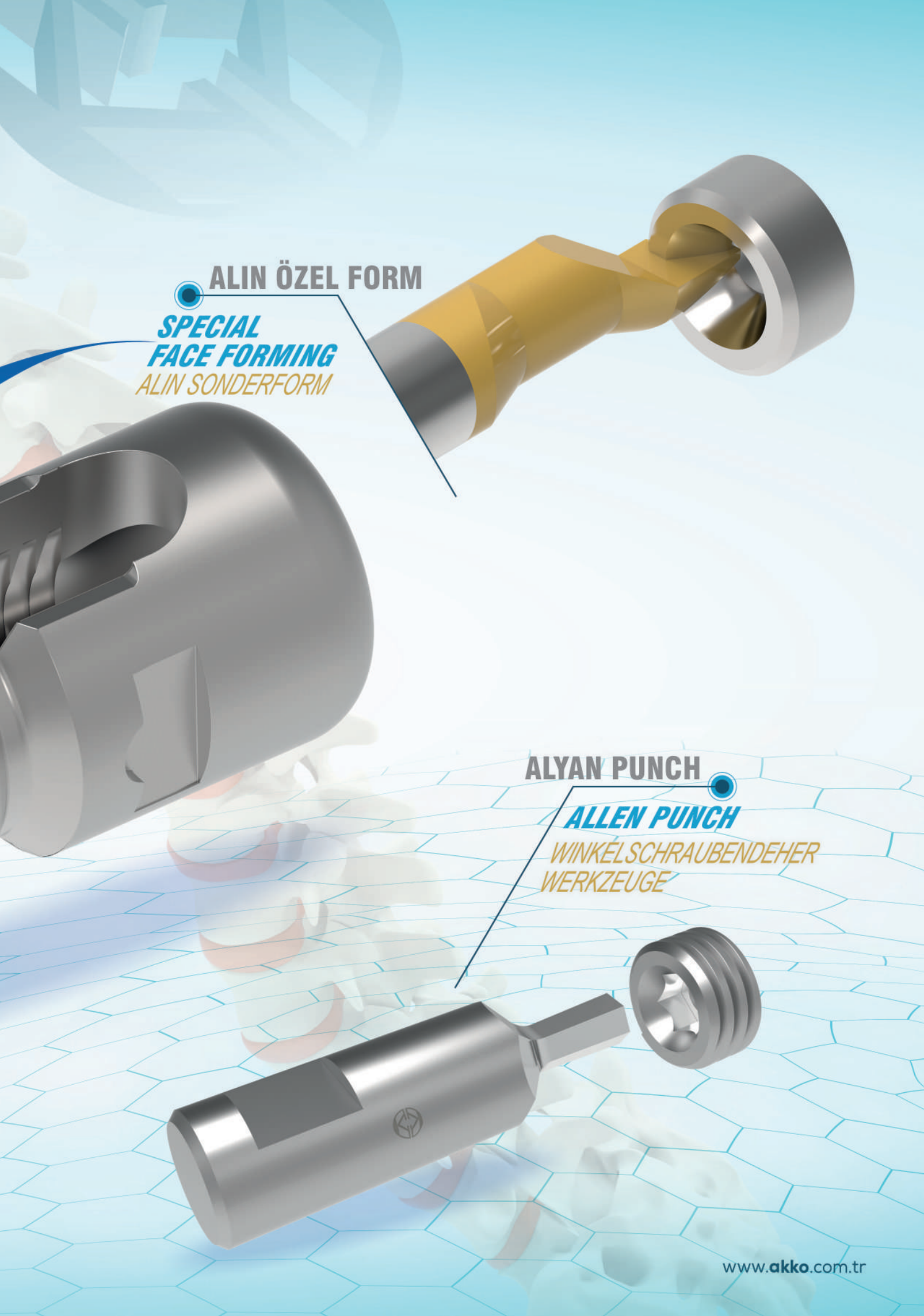
TULIP HEADS



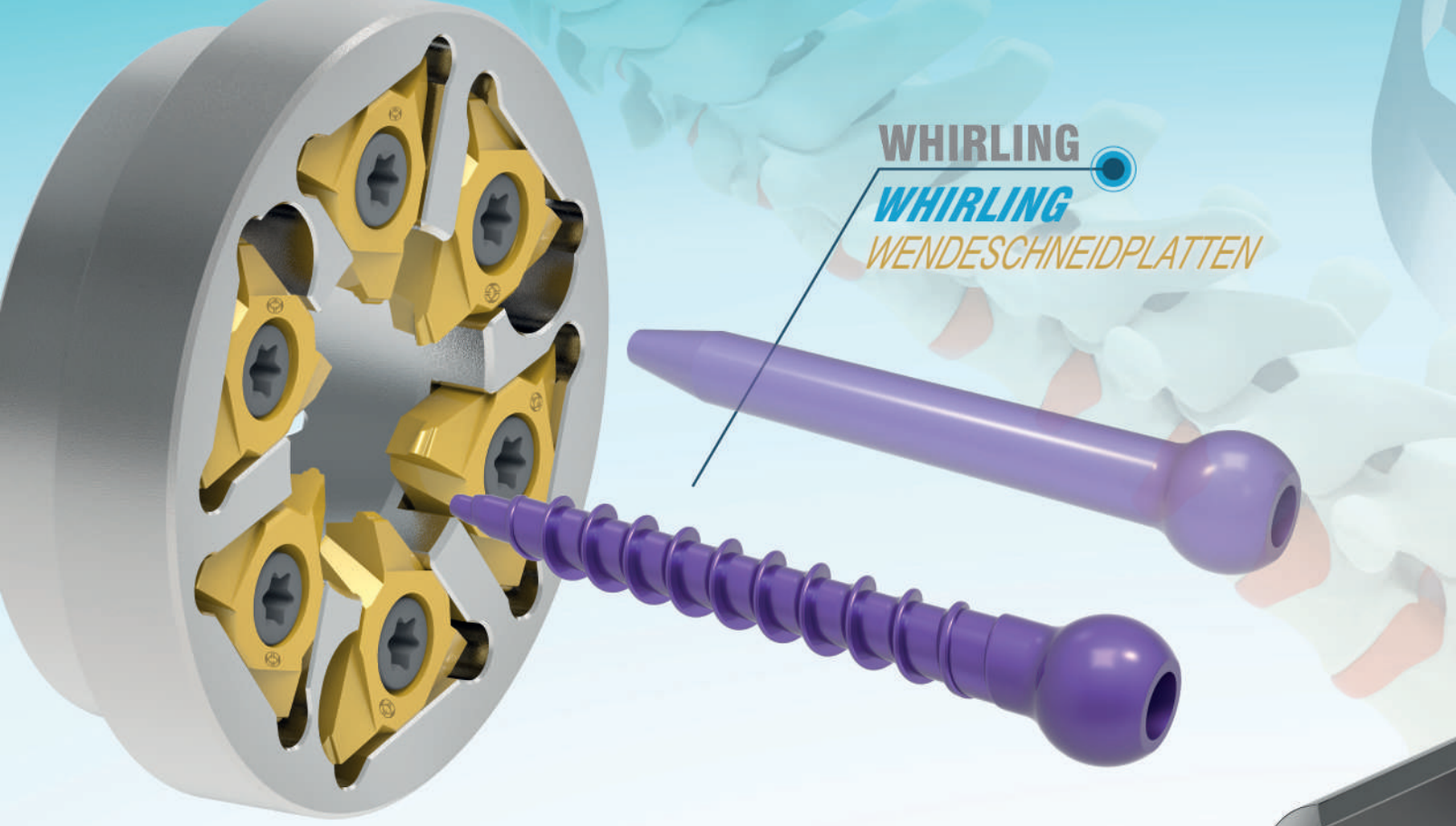
DİŞ AÇMA
THREADING
GEWINDE

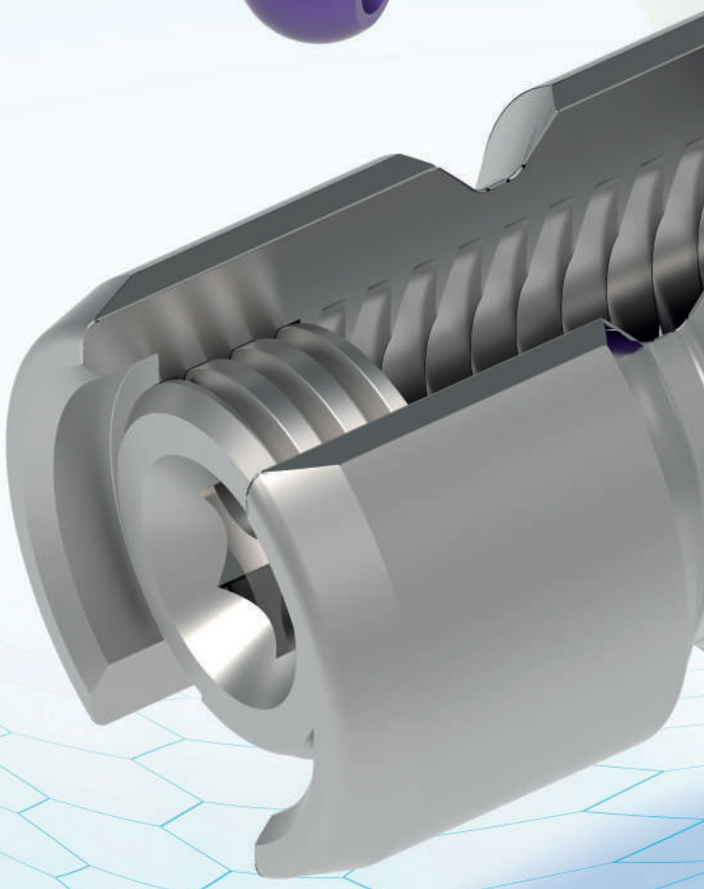

DELiK iÇi
TORNALAMA
BORING
BOHREN
ÖZEL FORMA AÇMA
SPECIAL FORMING
SONDER FORM BEARBEITUNG
www.akko.com.tr


AKKO
IMPLANT NUT
DİŞ AÇMA
THREADING
GEWINDE



www.akko.com.tr

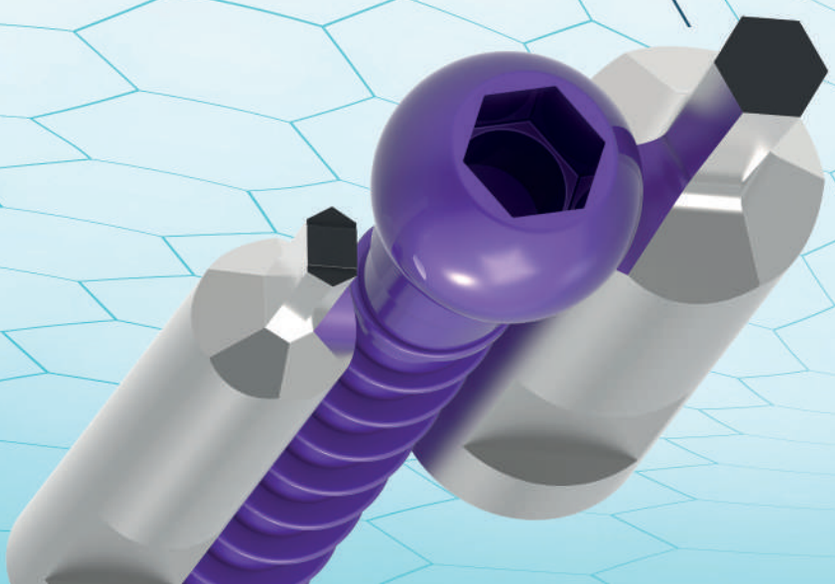




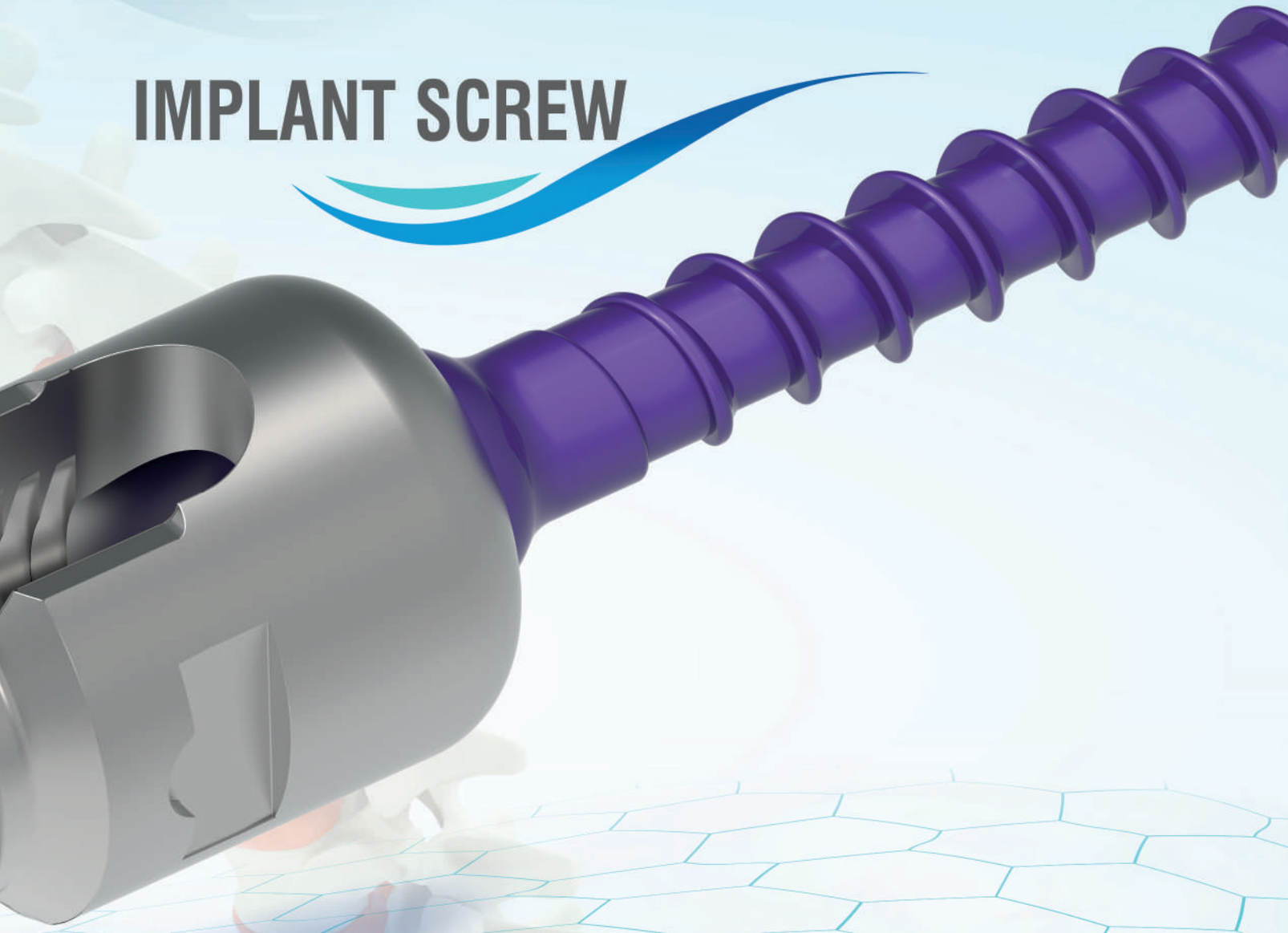
ALYAN / PUNCH - KAZIMA

ALLEN / PUNCH - BROACH

WINKELSCHRAUBENDEHER
WERKZEUGE



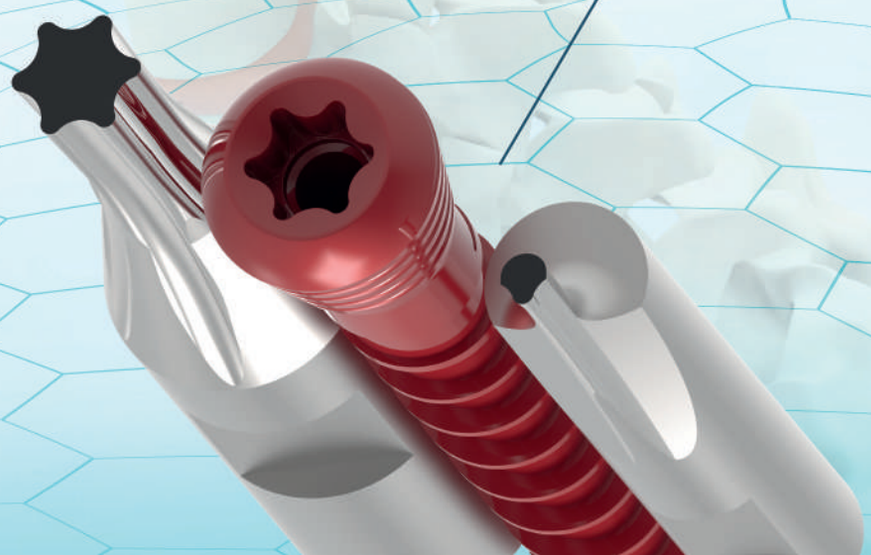
IMPLANT SCREW



TORX / PUNCH - KAZIMA

TORX / PUNCH - BROACH

WINKELSCHRAUBENDREHER - RING



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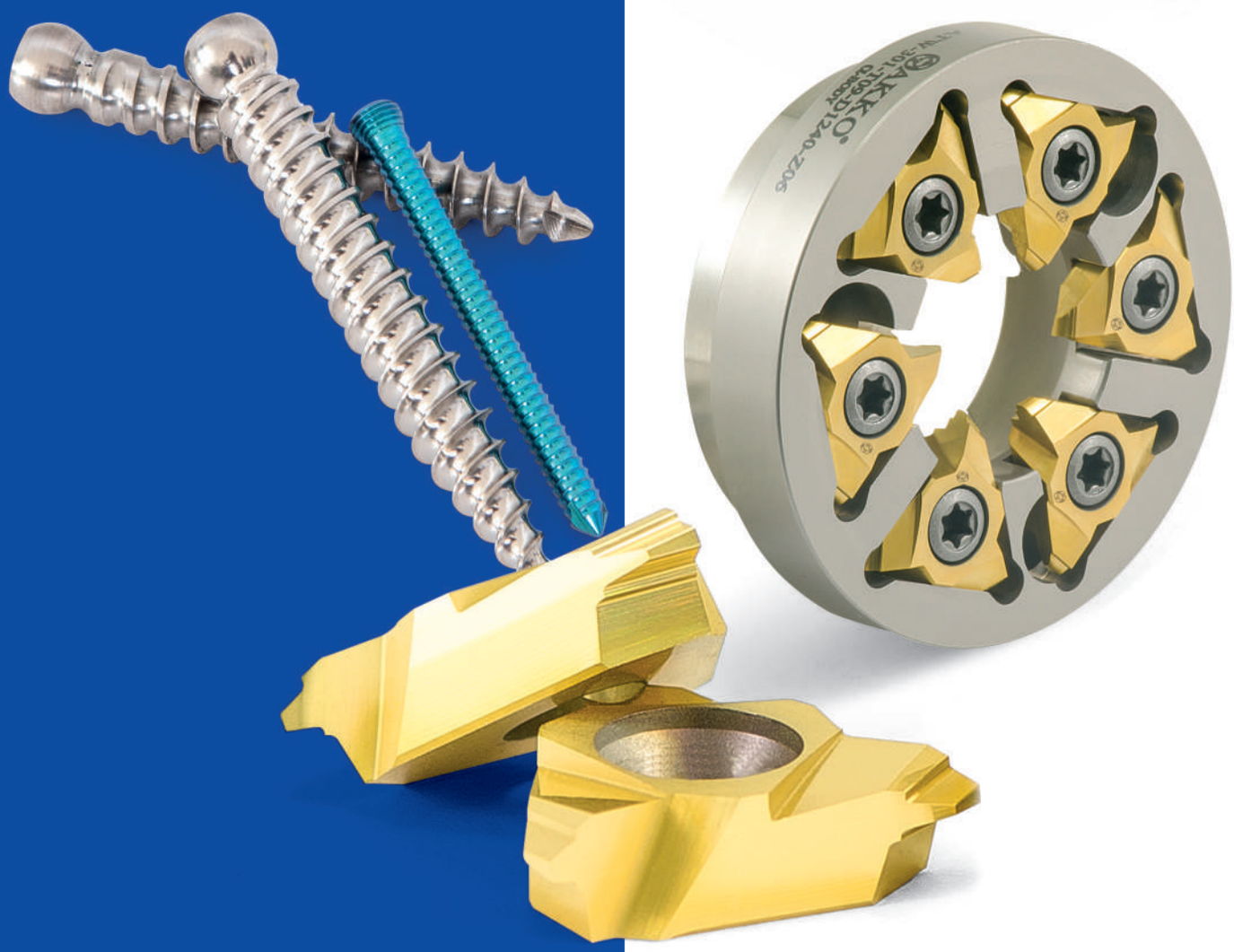
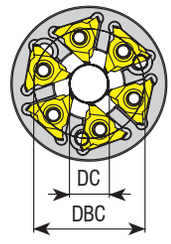
WHIRLING

WHIRLING UÇLARI ve TAKIMLARI

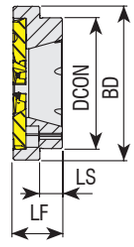
WHIRLING INSERTS and TOOLHOLDERS

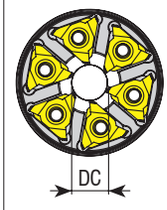
WENDESCHNEIDPLATTEN UND WERKZEUGHALTER ZUM GEWINDEWIRBELN





TYPE 1





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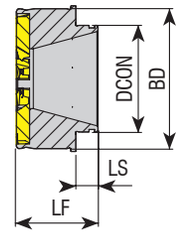

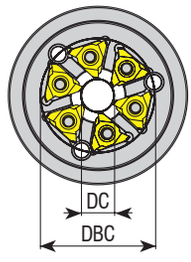

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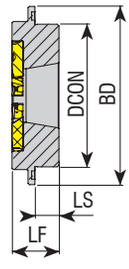

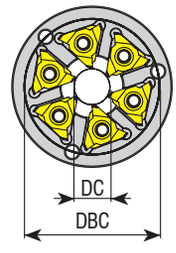

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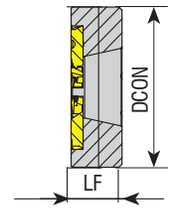
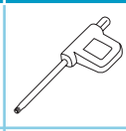
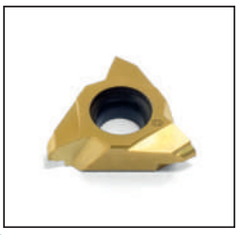
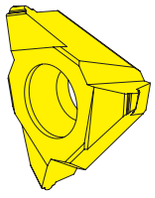
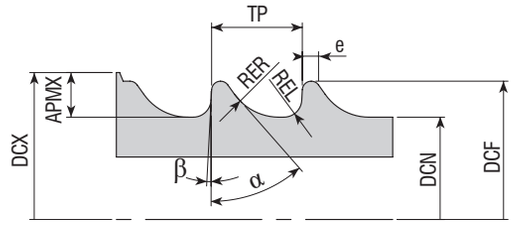


Makine *Machine* *Maschine*	Tahrikli WHIRLING Ünitesi *Aggregate WHIRLING Unit* *Wirbelspindel*	WHIRLING Ring Kodu *WHIRLING Ring Code* *Wirbelring*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*								Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
				ZEFP	DC	DCON	DBC	BD	LS	LF	TYPE			
STAR	5914 72 00/68172	ATW-301-T09-D1240-Z06	●	6	12	40	33	47	7	15	1	T09....	4015 M4x11	80-T15
CITIZEN	BTW1000	ATW-302-T09-D1233-Z06	○	6	12	33	40	47	4	18.5	-			
	GSW101	ATW-303-T09-D0620-Z06	○	6	6	20	26	35	3.2	15	1			
	MWS101/KSW101 LSW101/BSW215/ LSW215315	ATW-304-T09-D1240-Z06	○	6	12	40	32.5	46	2.5	15.5	1			
	LSW424	ATW-305-T09-D1245-Z06	○	6	12	45	30	46	9.5	18	1			
TORNOS	306101/307087	ATW-306-T09-D1240-Z06	●	6	12	40	31	57	3.5	15	-			
	417617	ATW-307-T09-D1250-Z06	○	6	12	50	40	67	3.5	15.4	-			
WTO	TN762004	ATW-308-T09-D1142-Z06	●	6	11	31.97	-	42	6.7	24.7	2			
	TN762006	ATW-309-T09-D2054-Z08	○	8	20	56.5	-	54	1.5	13.8	2			
TSUGAMI	3234 Y342	ATW-310-T09-D1252-Z06	●	6	12	52	42	65	8.7	17	3			
	3268 Y452	ATW-311-T09-D1252-Z06	○	6	12	52	44	52	10	10	3			
	3268 Y271	ATW-312-T09-D1252-Z06	○	6	12	52	38	54	6	19	3			
	3214 Y342	ATW-313-T09-D1650-Z06	○	6	16	50	40	62	8.5	20	3			
	3234 Y342	ATW-314-T09-D2052-Z06	○	6	20	52	42	65	8.7	17	3			
	3281-Y451	ATW-316-T09-D1252-Z06	●	6	12	52	44	52	-	17	4			
new HANWHA	MADAULA	ATW-315-T09-D0937-Z06	○	6	9.4	-	-	54.9	20.8	38.3	2			
		ATW-315-T09-D1245-Z06	●	6	12	45	-	56	8.5	15	1			
new MADAULA	P.035.00002	ATW-318-T09-D1245-Z06	○	6	12	45	31.5	52	7	15	1			

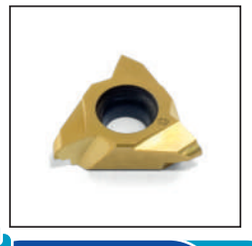
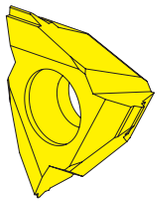
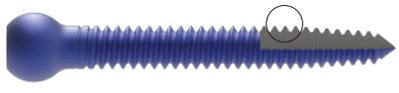
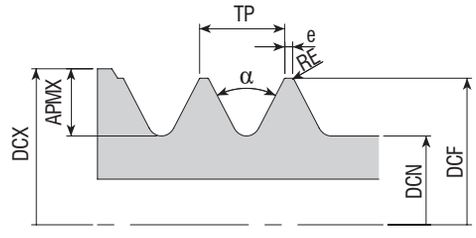
R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATW-301-T09-D1240-Z06

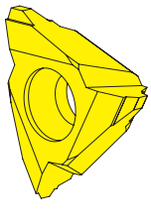



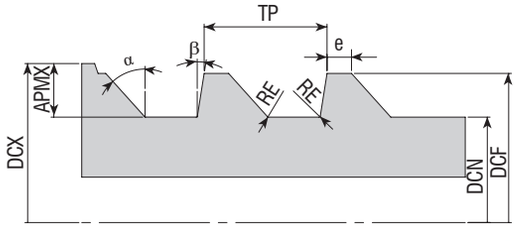


Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Kalite *Grade* *Sorte* VK15U	VK15U01	Standart *ISO5835*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* TP	e	DCF	DCN	RER	REL	α	β	APMX	DCX
T09.HA150.D12	●	●	HA1.5	0.5	0.1	1.35 to 1.5	1.0 to 1.1	0.30	0.1	35°	3°	4	9
T09.HA200.D12	●	●	HA2.0	0.6	0.1	1.85 to 2.0	1.2 to 1.3	0.40	0.1	35°	3°	4	9
T09.HA270.D12	●	●	HA2.7	1	0.1	2.55 to 2.7	1.75 to 1.9	0.60	0.2	35°	3°	4	9.5
T09.HA350.D12	●	●	HA3.5	1.25	0.1	3.35 to 3.5	2.25 to 2.4	0.80	0.2	35°	3°	4	10
T09.HA400.D12	●	●	HA4.0	1.5	0.1	3.85 to 4.0	2.75 to 2.9	0.80	0.2	35°	3°	4	10.5
T09.HA450.D12	●	●	HA4.5	1.75	0.1	4.35 to 4.5	2.85 to 3.0	1.00	0.3	35°	3°	4	11
T09.HA500.D12	●	●	HA5.0	1.75	0.1	4.85 to 5.0	3.35 to 3.5	1.00	0.3	35°	3°	4	11
T09.HB400.D12	●	●	HB4.0	1.75	0.1	3.85 to 4.0	1.75 to 1.9	0.80	0.3	25°	5°	4	9.5
T09.HB650.D12	●	●	HB6.5	2.75	0.2	6.35 to 6.5	2.85 to 3.0	1.20	0.8	25°	5°	4	11

Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Kalite *Grade* *Sorte* VK15U	VK15U01	Standart *ISO9268*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* TP	e	DCF	DCN	α	RE	APMX	DCX
T09.HC290.D12	○	○	HC2.9	1.06	0.1	2.79 to 2.90	2.03 to 2.18	60°	0.01	4	10.5
T09.HC350.D12	○	○	HC3.5	1.27	0.1	3.43 to 3.53	2.51 to 2.64	60°	0.01	4	11
T09.HC390.D12	○	○	HC3.9	1.27	0.1	3.78 to 3.91	2.77 to 2.92	60°	0.01	4	11.5
T09.HC420.D12	○	○	HC4.2	1.27	0.1	4.09 to 4.22	2.95 to 3.25	60°	0.01	4	12

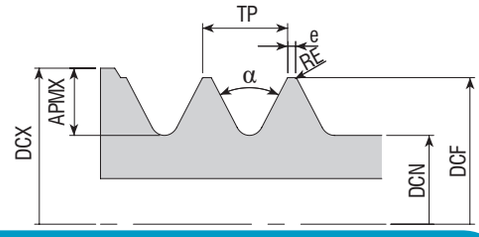




Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Kalite *Grade* *Sorte* VK15U	VK15U01	Standart *ISO9268*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* TP	e	DCF	DCN	RE	α	β	APMX	DCX
T09.HD400.D12	○	○	HD4.0	1.59	0.1	3.97 to 4.03	2.89 to 2.95	0.01	45°	10°	4	11.5
T09.HD450.D12	○	○	HD4.5	2.18	0.1	4.47 to 4.53	2.89 to 2.95	0.01	45°	10°	4	12

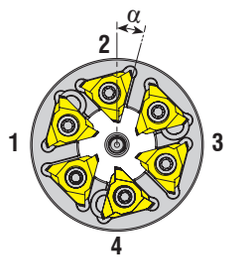
R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück T09.HA150.D12



Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Kalite *Grade* *Sorte* VK15U	VK15U01	Standart *DIN13*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* TP	DCF	DCN	α	RE	APMX	DCX
T09.M200.D12	●	●	M2	0.4	2	1.509	60°	0.048	4	9
T09.M250.D12	●	●	M2.5	0.45	2.5	1.928	60°	0.055	4	9.5
T09.M300.D12	●	●	M3	0.5	3	2.387	60°	0.062	4	10
T09.M350.D12	●	●	M3.5	0.6	3.5	2.744	60°	0.077	4	8.5
T09.M400.D12	●	●	M4.0	0.7	4	3.141	60°	0.091	4	11
T09.M500.D12	●	●	M5.0	0.8	5	4.019	60°	0.105	4	11.5
T09.M600.D12	●	●	M6.0	1	6	4.773	60°	0.134	4	12.5
T09.M700.D12	●	●	M7.0	1	7	5.753	60°	0.134	4	13.5
T09.M800.D12	●	●	M8.0	1.25	8	6.446	60°	0.17	4	14

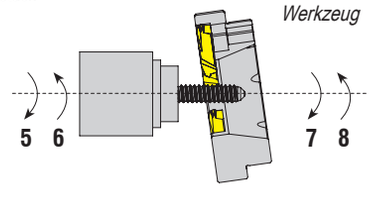
Kesme başlangıç pozisyonu
Cutting Start Position
Startposition Schneidvorgang



Y Ekseni
Y Axis
Y Ось

İş parçası dönüş yönü
Turning Direction of Workpiece
Drehrichtung Werkstück

WHIRLING ünitesi dönüş yönü
Turning Direction of WHIRLING unit
Drehrichtung Gewindewirbel Werkzeug

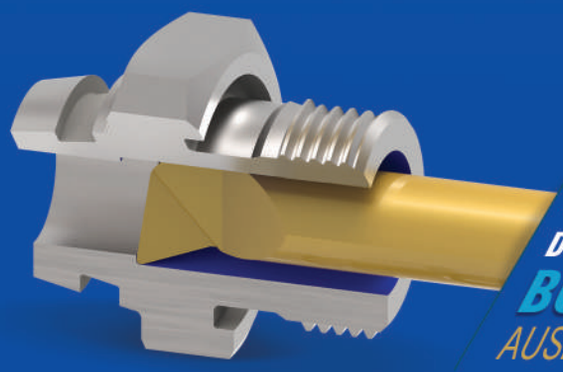


ÖZEL WHIRLING INSERT TALEP FORMU / *SPECIAL WHIRLING INSERT REQUEST FORM* / *ANFRAGEFORMULAR FÜR SPEZIELLE WIRBELEINSÄTZE*

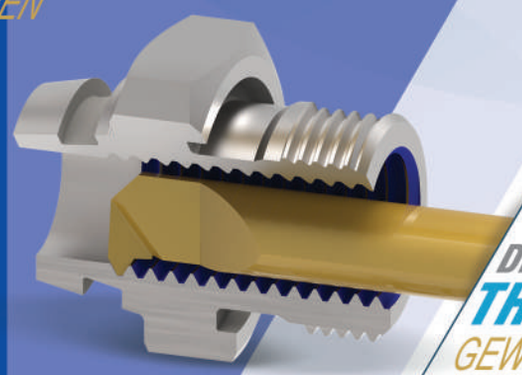
Makine Özellikleri / *Machine Specifications* / *Angaben zur Maschine*		Malzeme Özellikleri / *Material Specifications* / *Material Besonderheiten*
Makine Üreticisi *Machine Manufacturer* *Maschinenhersteller*		**Malzeme (DIN, AISI v.b.)** *Material (DIN, AISI etc.)* *Material DIN, AISI etc.*
Makine Modeli *Machine Model* *Maschinenbezeichnung*		**Ham Malzeme Çapı** *Raw Material Diameter* *Rohmaterial Durchmesser*
Tahrikli WHIRLING Ünitesi Üreticisi *Live Tool Manufacturer* *Hersteller angetriebene Werkzeuge*		**Diş Profili** *Thread Profile* *Gewindeprofil*
Tahrikli WHIRLING Ünitesi *Aggregate WHIRLING Unit* *Wirbelspindel*		**Profil Teknik Resmi** *Profile Technical Drawing* *Profilzeichnung*
Y - Eksen *Y - Axis* *Y - Achse*	**Var** *Exist* *Ja* ☐ **Yok** *None* *Nein* ☐	**Hatve** *Pitch* *Steigung*
Yüksek Basınçlı Soğutma *High Pressure Coolant* *Hochdruckkühlung*	**Var** *Exist* *Ja* ☐ **Yok** *None* *Nein* ☐	**Tek Ağız** *One Start* *Eingängig*
Kesme Başlangıç Pozisyonu *Cutting Start Position* *Startposition Schneidvorgang*	**1** ☐ **2** ☐ **3** ☐ **4** ☐	**İki Ağız** *Two Starts* *Zweigängig*
WHIRLING Ünitesi Dönüş Yönü *Turning Direction of WHIRLING Unit* *Drehrichtung Gewindewirbel-Werkzeug*	**5** ☐ **6** ☐	**Müşteri Adı** / *Customer Name* / *Kundenname:* **Yetkili** / *Responsible Person* / *Ansprechpartner :*
İş Parçası Dönüş Yönü *Turning Direction of Workpiece* *Drehrichtung Werkstück*	**7** ☐ **8** ☐	**Tel - E-mail** *:*
α **Açısı** *α Angle* *Winkel*	**Not: Bu açı ürün performansına etki ettiğinden bildirilmesi gerekmektedir. Aksi halinde ring tarafımıza gönderilmelidir.** *Note: This angle effcts the performance of inserts. If doesn't known, tool body should be send to AKKO.* *Hınweis: Dieser Winkel beeinflusst die Leistung der Wendeschneidplatte. Sollte dieser Winkel unbekannt sein, können Sie das Werkzeug zur Fa. AKKO schicken.*	
Not / *Note* / *Notizen :*		

MINI CUT

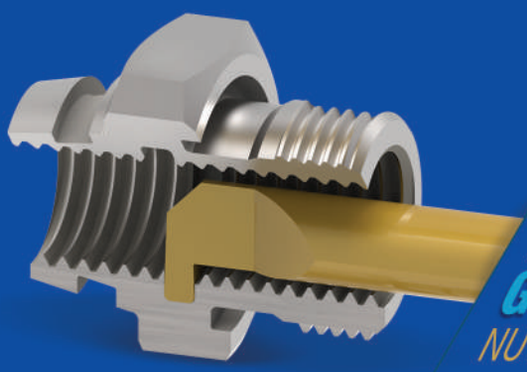
MİNİ CUT TUTUCU ve TAKIMLARI
MINI CUT HOLDERS and TOOLS
MINI CUT HALTER und WERKZEUGE



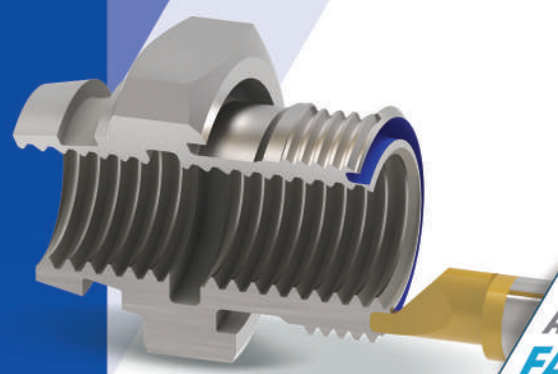
01
DELİK İÇİ TORNALAMA
BORING
AUSDREHEN



02
DİŞ AÇMA
THREADING
GEWINDEN

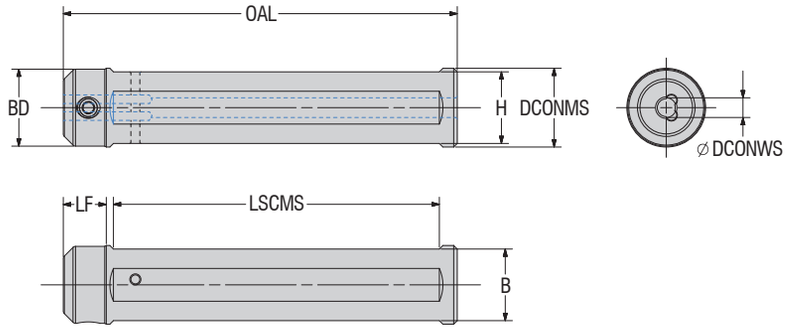


03
KANAL AÇMA
GROOVING
NUTENSTECHEN



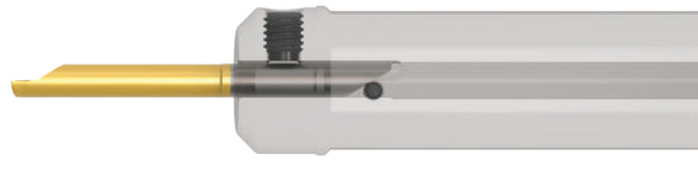
04
ALIN KANAL AÇMA
FACE GROOVING
AXIALSTECHEN

05
MİNİ CUT TUTUCU
MINI CUT HOLDER
MINI CUT HALTER



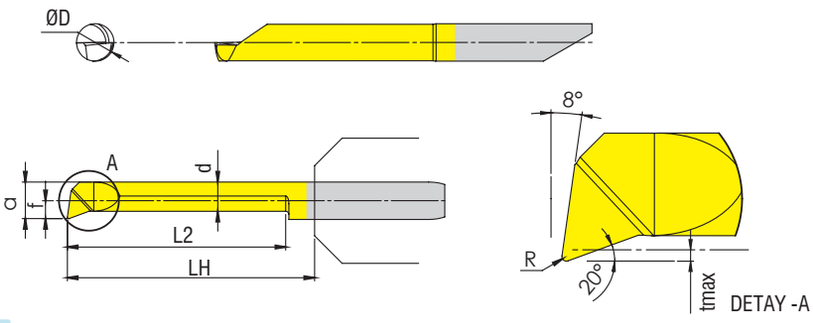
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							
		DCONWS	OAL	DCONMS	BD	LF	LSCMS	B	H
APCH-16-4-L110-H	○	4	110	16	-	-	92	14	14
APCH-16-5-L110-H	○	5	110	16	-	-	92	14	14
APCH-16-6-L110-H	○	6	110	16	21	13	91	14	14
APCH-16-7-L110-H	○	7	110	16	21	13	91	14	14
APCH-20-4-L110-H	●	4	110	20	19.50	11	91	18.80	18.80
APCH-20-5-L110-H	●	5	110	20	19.50	11	91	18.80	18.80
APCH-20-6-L110-H	●	6	110	20	19.50	11	91	18.80	18.80
APCH-20-7-L110-H	●	7	110	20	19.50	11	11	18.80	18.80
new APCH-20-8-L110-H	●	8	110	20	22.50	15	87	18.80	18.80
new APCH-20-10-L110-H	●	10	110	20	26	15	98	18.80	18.80
APCH-22-4-L110-H	●	4	110	22	21.50	12	91	20	20
APCH-22-5-L110-H	●	5	110	22	21.50	12	91	20	20
APCH-22-6-L110-H	●	6	110	22	21.50	12	91	20	20
APCH-22-7-L110-H	●	7	110	22	21.50	12	91	20	20
new APCH-22-8-L110-H	●	8	110	22	22.50	15	87	20	20
new APCH-22-10-L110-H	●	10	110	22	26	15	87	20	20
APCH-25-4-L110-H	●	4	110	25	24.50	12	91	23	23
APCH-25-5-L110-H	●	5	110	25	24.50	12	91	23	23
APCH-25-6-L110-H	●	6	110	25	24.50	12	91	23	23
APCH-25-7-L110-H	●	7	110	25	24.50	12	91	23	23
new APCH-25-8-L110-H	●	8	110	25	24.50	17	86	23	23
new APCH-25-10-L110-H	●	10	110	25	26	15	87	23	23

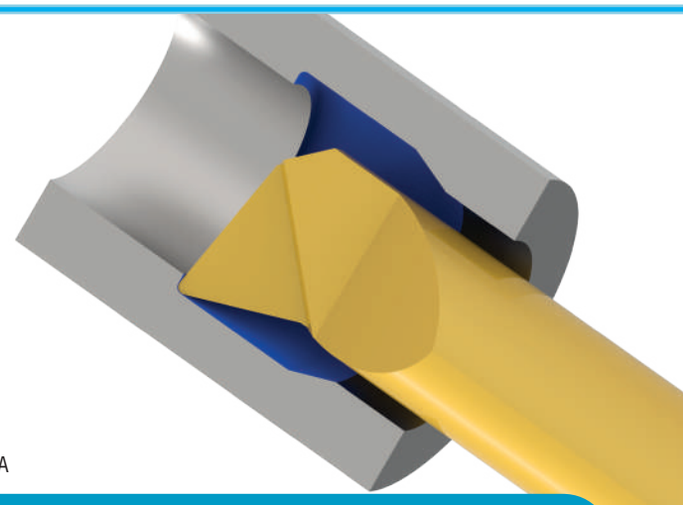
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APCH-16-4-L110-H



DELİK İÇİ MİNİ CUT TAKIMLAR

MINI CUT BORING / MINI CUT AUSDREHEN



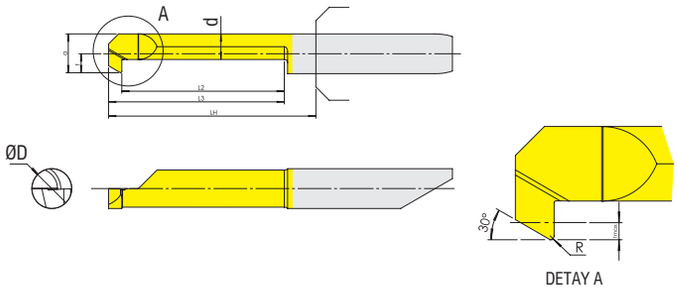


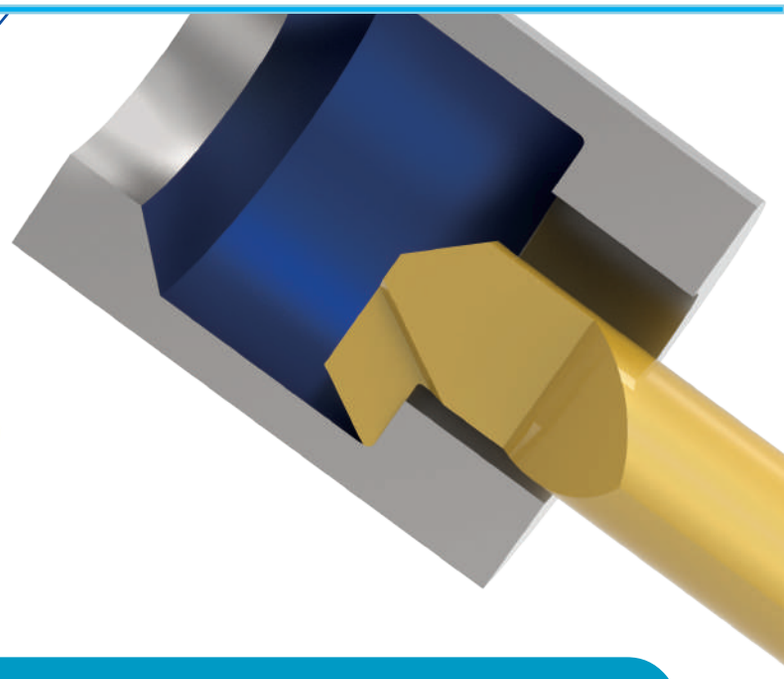
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*								
	L2	Ødmin	R	a	d	f	LH	tmax	ØD
new APB.04.102.015.32	10.20	3.2	0.15	2.95	2.55	1.45	13	0.2	4
new APB.04.152.015.32	15.20	3.2	0.15	2.95	2.55	1.45	18	0.2	4
new APB.04.203.015.32	20.30	3.2	0.15	2.95	2.55	1.45	23	0.2	4
new APB.04.254.015.32	25.40	3.2	0.15	2.95	2.55	1.45	28	0.2	4
new APB.04.305.015.32	30.50	3.2	0.15	2.95	2.55	1.45	33	0.2	4
new APB.04.356.015.32	35.60	3.2	0.15	2.95	2.55	1.45	38	0.2	4
APB.04.102.015	10.2	4.2	0.15	3.95	3.45	1.95	13	0.3	4
APB.04.152.015	15.20	4.2	0.15	3.95	3.45	1.95	18	0.3	4
APB.04.203.015	20.30	4.2	0.15	3.95	3.45	1.95	23	0.3	4
APB.04.254.015	25.40	4.2	0.15	3.95	3.45	1.95	28	0.3	4
APB.04.305.015	30.50	4.2	0.15	3.95	3.45	1.95	33	0.3	4
APB.04.356.015	35.60	4.2	0.15	3.95	3.45	1.95	38	0.3	4
APB.04.406.020	40.60	4.2	0.15	3.95	3.45	1.95	43	0.3	4
APB.05.102.020	10.2	5.2	0.2	4.95	4.25	2.45	13	0.5	5
APB.05.152.020	15.20	5.2	0.2	4.95	4.25	2.45	18	0.5	5
APB.05.203.020	20.30	5.2	0.2	4.95	4.25	2.45	23	0.5	5
APB.05.254.020	25.40	5.2	0.2	4.95	4.25	2.45	28	0.5	5
APB.05.305.020	30.50	5.2	0.2	4.95	4.25	2.45	33	0.5	5
APB.05.356.020	35.60	5.2	0.2	4.95	4.25	2.45	38	0.5	5
APB.05.406.020	40.60	5.2	0.2	4.95	4.25	2.45	43	0.5	5
APB.06.102.020	10.2	6.2	0.2	5.95	5.25	2.95	13	0.5	6
APB.06.152.020	15.20	6.2	0.2	5.95	5.25	2.95	18	0.5	6
APB.06.203.020	20.30	6.2	0.2	5.95	5.25	2.95	23	0.5	6
APB.06.254.020	25.40	6.2	0.2	5.95	5.25	2.95	28	0.5	6
APB.06.305.020	30.50	6.2	0.2	5.95	5.25	2.95	33	0.5	6
APB.06.356.020	35.60	6.2	0.2	5.95	5.25	2.95	38	0.5	6
APB.06.406.020	40.60	6.2	0.2	5.95	5.25	2.95	43	0.5	6
APB.06.508.020	50.80	6.2	0.2	5.95	5.25	2.95	53	0.5	6
APB.07.254.020	25.40	7.2	0.2	6.95	6.25	3.45	28	0.5	7
APB.07.305.020	30.50	7.2	0.2	6.95	6.25	3.45	33	0.5	7
APB.07.356.020	35.60	7.2	0.2	6.95	6.25	3.45	38	0.5	7
APB.07.406.020	40.60	7.2	0.2	6.95	6.25	3.45	43	0.5	7
APB.07.508.020	50.80	7.2	0.2	6.95	6.25	3.45	53	0.5	7
APB.07.608.020	60.80	7.2	0.2	6.95	6.25	3.45	63	0.5	7

Sipariş Örneği/Ordering Example/*Bestellbeispiel* 1 ad./pcs./stück APB.04.102.015.32

TERS TORNALAMA MİNİ CUT TAKIMLAR

MINI CUT BACK BORING / MINI CUT ZURÜCK BOHRUNGE



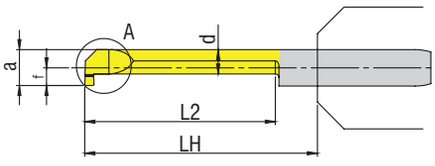


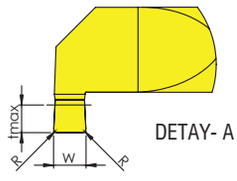
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*									
	L2	L3	Ødmin	R	a	d	f	LH	tmax	ØD
APB.B04.152.010.32	13.2	15.20	3.2	0.1	2.95	2.3	1.45	18	0.5	**4**
APB.B04.203.010.32	18.3	20.30	3.2	0.1	2.95	2.3	1.45	23	0.5	**4**
APB.B04.152.015.42	13.2	15.20	4.2	0.15	3.95	2.5	1.95	18	0.8	**4**
APB.B04.254.015.42	23.4	25.40	4.2	0.15	3.95	2.5	1.95	28	0.8	**4**
APB.B05.203.020.52	18.3	20.30	5.2	0.2	4.95	3.8	2.45	23	1	**5**
APB.B05.305.020.52	28.5	30.50	5.2	0.2	4.95	3.8	2.45	33	1	**5**
APB.B06.203.020.62	18.3	20.30	6.2	0.2	5.95	3.8	2.95	23	1.8	**6**
APB.B06.305.020.62	28.5	30.50	6.2	0.2	5.95	3.8	2.95	33	1.8	**6**
APB.B07.203.020.72	17.3	20.30	7.2	0.2	6.95	4.25	3.45	23	2.5	**7**
APB.B07.305.020.72	27.5	30.50	7.2	0.2	6.95	4.25	3.45	33	2.5	**7**

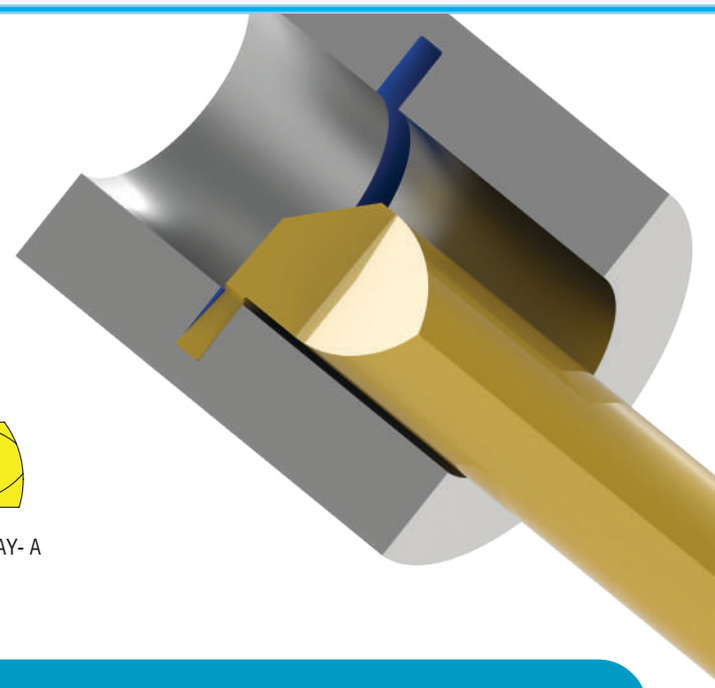
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APB.B04.152.010.32

KANAL AÇMA MİNİ CUT TAKIMLAR

MINI CUT GROOVING / MINI CUT NUTENSTECHEN





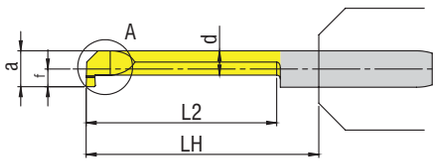


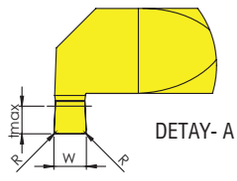
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
APG04.080.102	0.8	10.2	4.2	0.15	3.95	2.95	1.95	13	0.8	**4**
APG04.080.152	0.8	15.2	4.2	0.15	3.95	2.95	1.95	18	0.8	**4**
APG04.080.203	0.8	20.3	4.2	0.15	3.95	2.95	1.95	23	0.8	**4**
APG04.080.254	0.8	25.4	4.2	0.15	3.95	2.95	1.95	28	0.8	**4**
APG04.100.102	1.0	10.2	4.2	0.2	3.95	2.95	1.95	13	0.8	**4**
APG04.100.152	1.0	15.2	4.2	0.2	3.95	2.95	1.95	18	0.8	**4**
APG04.100.203	1.0	20.3	4.2	0.2	3.95	2.95	1.95	23	0.8	**4**
APG05.079.102	0.79	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	**5**
APG05.079.152	0.79	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	**5**
APG05.079.203	0.79	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	**5**
APG05.079.254	0.79	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	**5**
APG05.079.305	0.79	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	**5**
APG05.079.356	0.79	35.6	5.2	0.2	4.95	3.75	2.45	38	1.0	**5**
APG05.100.102	1.0	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	**5**
APG05.100.152	1.0	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	**5**
APG05.100.203	1.0	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	**5**
APG05.100.254	1.0	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	**5**
APG05.100.305	1.0	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	**5**
APG05.100.356	1.0	35.6	5.2	0.2	4.95	3.75	2.45	38	1.0	**5**

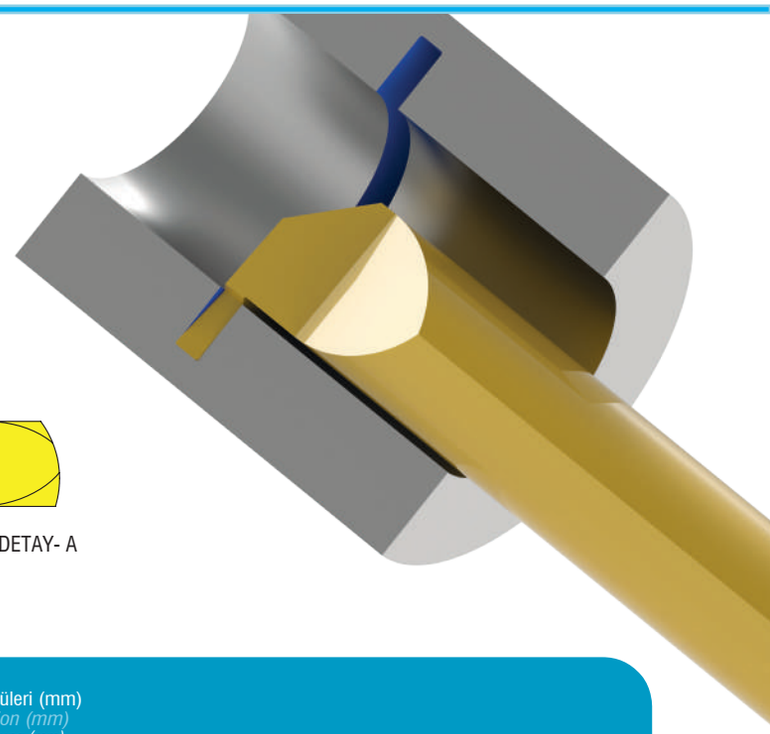
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APG04.080.102

KANAL AÇMA MİNİ CUT TAKIMLAR

MINI CUT GROOVING / MINI CUT NUTENSTECHEN





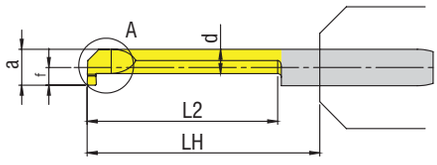


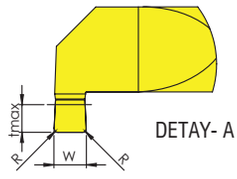
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
APG05.117.102	1.17	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	**5**
APG05.117.152	1.17	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	**5**
APG05.117.203	1.17	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	**5**
APG05.117.254	1.17	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	**5**
APG05.117.305	1.17	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	**5**
APG05.117.356	1.17	35.6	5.2	0.2	4.95	3.75	2.45	38	1.0	**5**
APG05.150.102	1.5	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	**5**
APG05.150.152	1.5	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	**5**
APG05.150.203	1.5	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	**5**
APG05.150.254	1.5	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	**5**
APG05.150.305	1.5	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	**5**
APG05.150.356	1.5	35.6	5.2	0.2	4.95	3.75	2.45	38	1.0	**5**
APG05.157.102	1.57	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	**5**
APG05.157.152	1.57	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	**5**
APG05.157.203	1.57	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	**5**
APG05.157.254	1.57	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	**5**
APG05.157.305	1.57	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	**5**

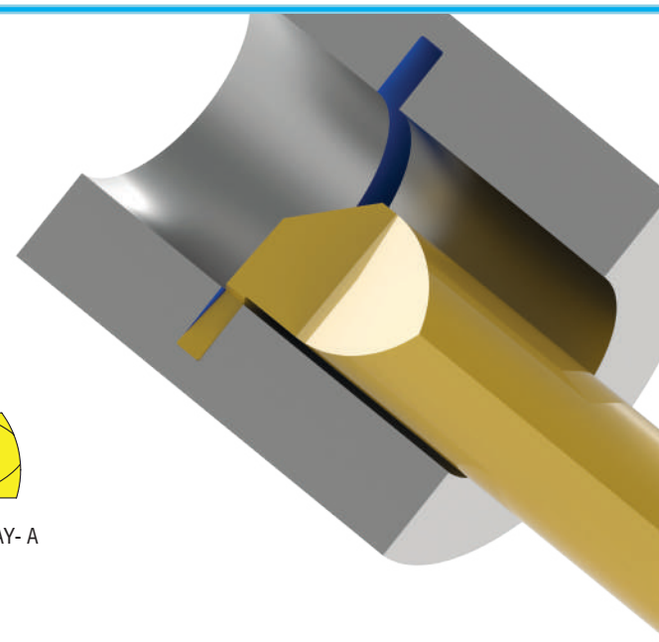
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APG05.117.102

KANAL AÇMA MİNİ CUT TAKIMLAR

MINI CUT GROOVING / MINI CUT NUTENSTECHEN





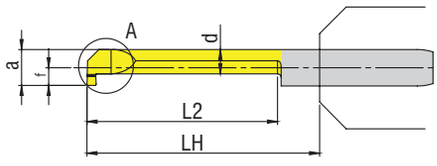


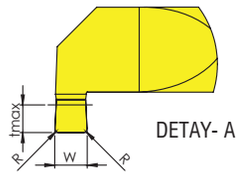
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
APG05.198.102	1.98	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	**5**
APG05.198.152	1.98	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	**5**
APG05.198.203	1.98	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	**5**
APG05.198.254	1.98	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	**5**
APG05.198.305	1.98	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	**5**
APG05.200.102	2.0	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	**5**
APG05.200.152	2.0	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	**5**
APG05.200.203	2.0	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	**5**
APG05.200.254	2.0	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	**5**
APG05.200.305	2.0	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	**5**
APG06.079.102	0.79	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	**6**
APG06.079.152	0.79	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	**6**
APG06.079.203	0.79	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	**6**
APG06.079.254	0.79	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	**6**
APG06.079.305	0.79	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	**6**
APG06.079.356	0.79	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	**6**

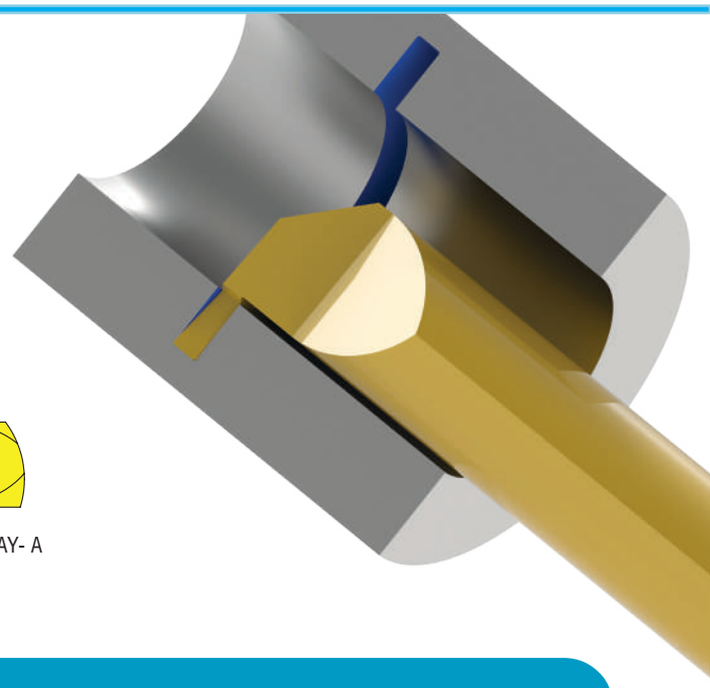
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APG05.198.102

KANAL AÇMA MİNİ CUT TAKIMLAR

MINI CUT GROOVING / MINI CUT NUTENSTECHEN





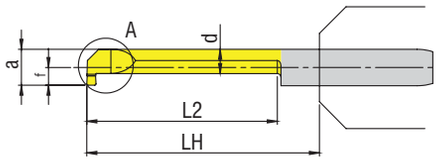


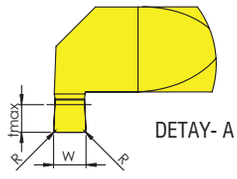
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
APG06.100.102	1.0	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	**6**
APG06.100.152	1.0	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	**6**
APG06.100.203	1.0	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	**6**
APG06.100.254	1.0	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	**6**
APG06.100.305	1.0	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	**6**
APG06.100.356	1.0	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	**6**
APG06.100.406	1.0	40.6	6.2	0.2	5.95	3.95	2.95	43	1.8	**6**
APG06.117.102	1.17	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	**6**
APG06.117.152	1.17	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	**6**
APG06.117.203	1.17	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	**6**
APG06.117.254	1.17	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	**6**
APG06.117.305	1.17	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	**6**
APG06.117.356	1.17	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	**6**
APG06.117.406	1.17	40.6	6.2	0.2	5.95	3.95	2.95	43	1.8	**6**
APG06.150.102	1.5	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	**6**
APG06.150.152	1.5	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	**6**
APG06.150.203	1.5	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	**6**
APG06.150.254	1.5	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	**6**
APG06.150.305	1.5	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	**6**
APG06.150.356	1.5	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	**6**

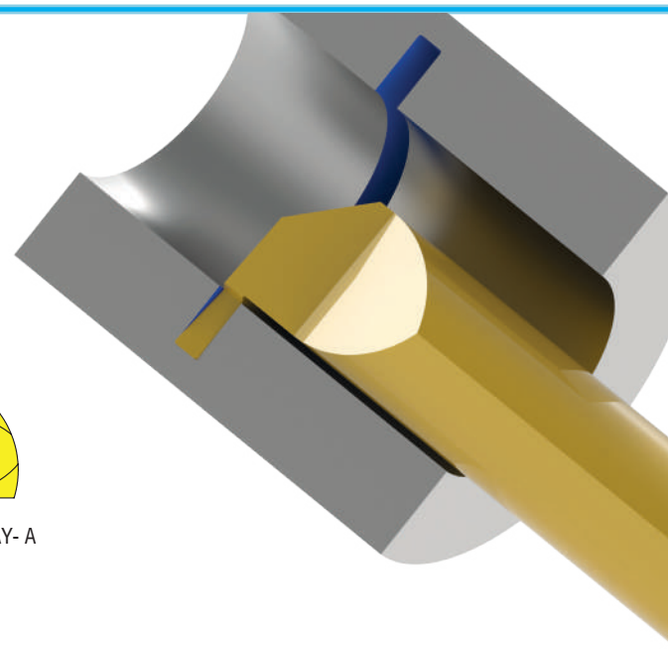
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APG06.100.102

KANAL AÇMA MİNİ CUT TAKIMLAR

MINI CUT GROOVING / MINI CUT NUTENSTECHEN





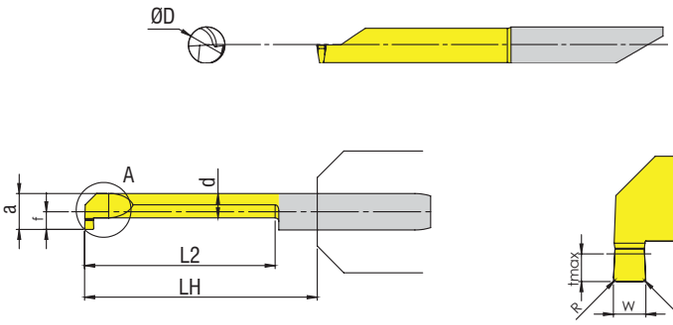


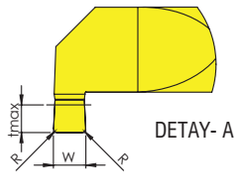
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
APG06.157.102	1.57	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	**6**
APG06.157.152	1.57	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	**6**
APG06.157.203	1.57	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	**6**
APG06.157.254	1.57	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	**6**
APG06.157.305	1.57	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	**6**
APG06.157.356	1.57	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	**6**
APG06.157.406	1.57	40.6	6.2	0.2	5.95	3.95	2.95	43	1.8	**6**
APG06.198.102	1.98	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	**6**
APG06.198.152	1.98	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	**6**
APG06.198.203	1.98	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	**6**
APG06.198.254	1.98	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	**6**
APG06.198.305	1.98	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	**6**
APG06.198.356	1.98	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	**6**
APG06.198.406	1.98	40.6	6.2	0.2	5.95	3.95	2.95	43	1.8	**6**
APG06.200.102	2.0	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	**6**
APG06.200.152	2.0	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	**6**
APG06.200.203	2.0	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	**6**
APG06.200.254	2.0	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	**6**
APG06.200.305	2.0	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	**6**
APG06.200.356	2.0	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	**6**

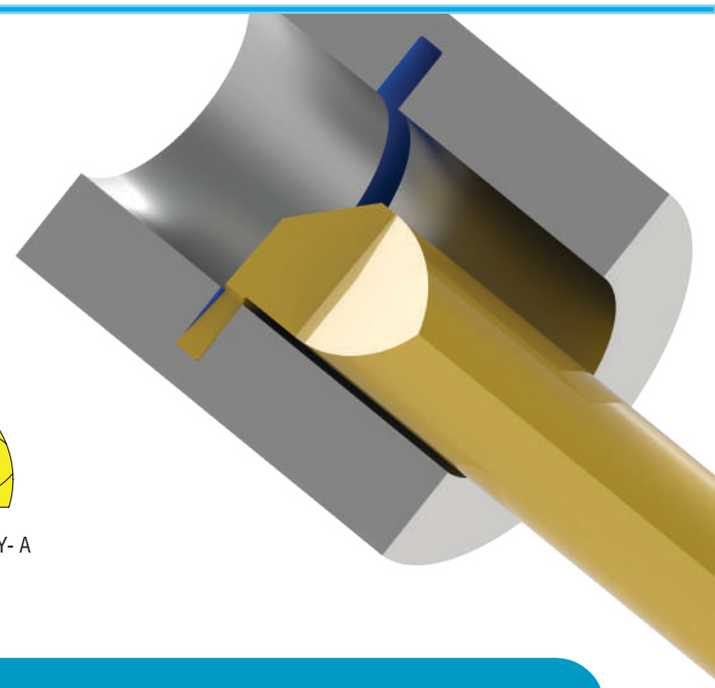
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APG06.157.102

KANAL AÇMA MİNİ CUT TAKIMLAR

MINI CUT GROOVING / MINI CUT NUTENSTECHEN





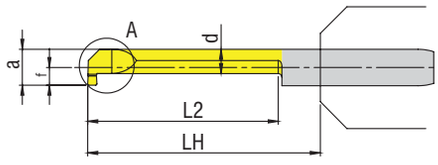


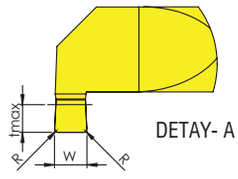
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
APG07.079.102	0.79	10.2	7.2	0.2	6.95	4.25	3.45	13	2.5	**7**
APG07.079.152	0.79	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	**7**
APG07.079.203	0.79	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	**7**
APG07.079.254	0.79	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	**7**
APG07.079.305	0.79	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	**7**
APG07.079.356	0.79	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	**7**
APG07.079.406	0.79	40.6	7.2	0.2	6.95	4.25	3.45	43	2.5	**7**
APG07.100.102	1.0	10.2	7.2	0.2	6.95	4.25	3.45	13	2.5	**7**
APG07.100.152	1.0	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	**7**
APG07.100.203	1.0	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	**7**
APG07.100.254	1.0	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	**7**
APG07.100.305	1.0	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	**7**
APG07.100.356	1.0	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	**7**
APG07.100.406	1.0	40.6	7.2	0.2	6.95	4.25	3.45	43	2.5	**7**
APG07.117.102	1.17	10.2	7.2	0.2	6.95	4.25	3.45	13	2.5	**7**
APG07.117.152	1.17	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	**7**
APG07.117.203	1.17	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	**7**
APG07.117.254	1.17	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	**7**
APG07.117.305	1.17	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	**7**
APG07.117.356	1.17	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	**7**
APG07.117.406	1.17	40.6	7.2	0.2	6.95	4.25	3.45	43	2.5	**7**

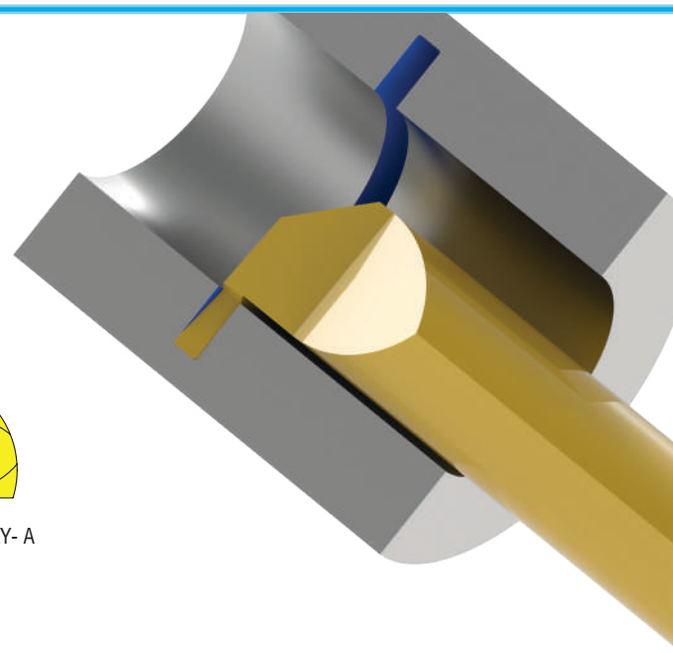
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APG07.079.102

KANAL AÇMA MİNİ CUT TAKIMLAR

MINI CUT GROOVING / MINI CUT NUTENSTECHEN





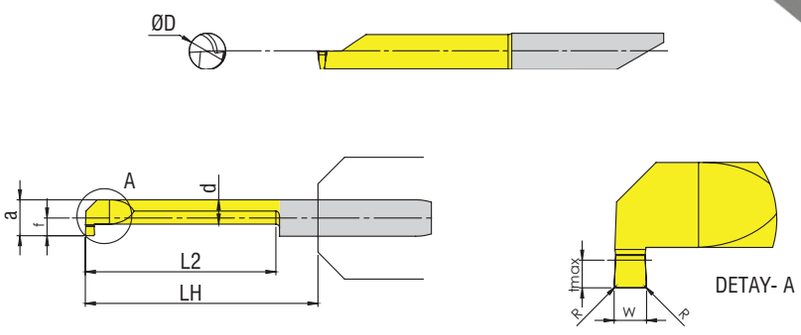


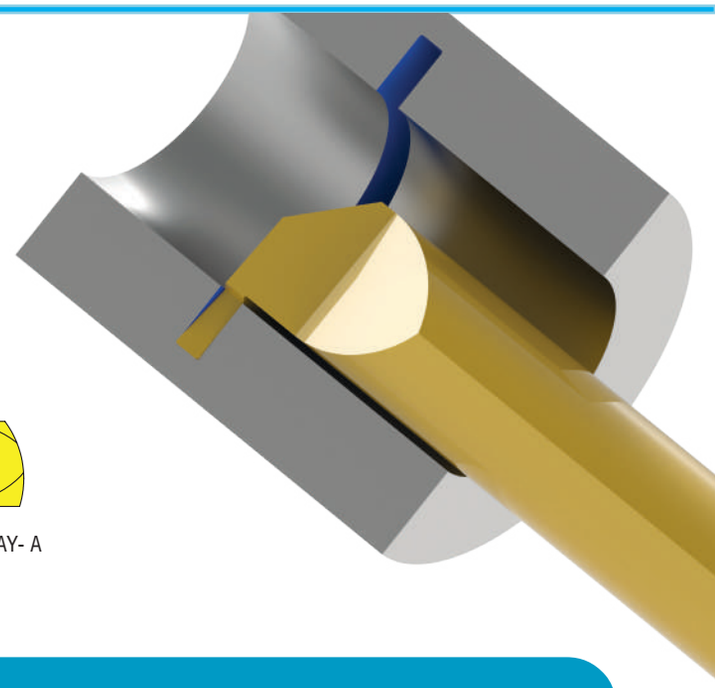
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
APG07.150.102	1.5	10,2	7.2	0.2	6.95	4.25	3.45	13	2.5	**7**
APG07.150.152	1.5	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	**7**
APG07.150.203	1.5	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	**7**
APG07.150.254	1.5	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	**7**
APG07.150.305	1.5	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	**7**
APG07.150.356	1.5	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	**7**
APG07.150.406	1.5	40,6	7.2	0.2	6.95	4.25	3.45	43	2.5	**7**
APG07.157.102	1.57	10,2	7.2	0.2	6.95	4.25	3.45	13	2.5	**7**
APG07.157.152	1.57	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	**7**
APG07.157.203	1.57	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	**7**
APG07.157.254	1.57	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	**7**
APG07.157.305	1.57	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	**7**
APG07.157.356	1.57	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	**7**
APG07.157.406	1.57	40,6	7.2	0.2	6.95	4.25	3.45	43	2.5	**7**
APG07.198.102	1.98	10,2	7.2	0.2	6.95	4.25	3.45	13	2.5	**7**
APG07.198.152	1.98	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	**7**
APG07.198.203	1.98	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	**7**
APG07.198.254	1.98	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	**7**
APG07.198.305	1.98	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	**7**
APG07.198.356	1.98	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	**7**

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APG07.150.102

KANAL AÇMA MİNİ CUT TAKIMLAR

MINI CUT GROOVING / MINI CUT NUTENSTECHEN



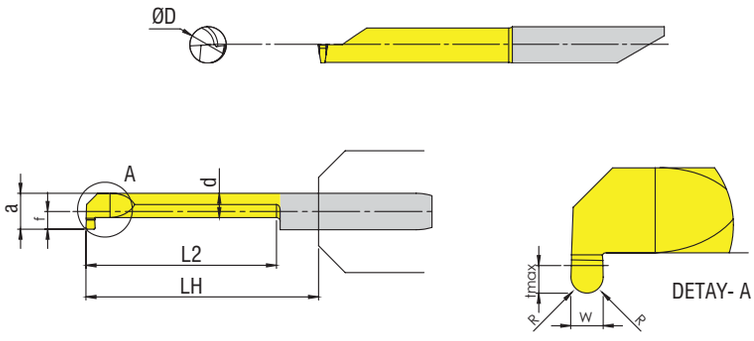


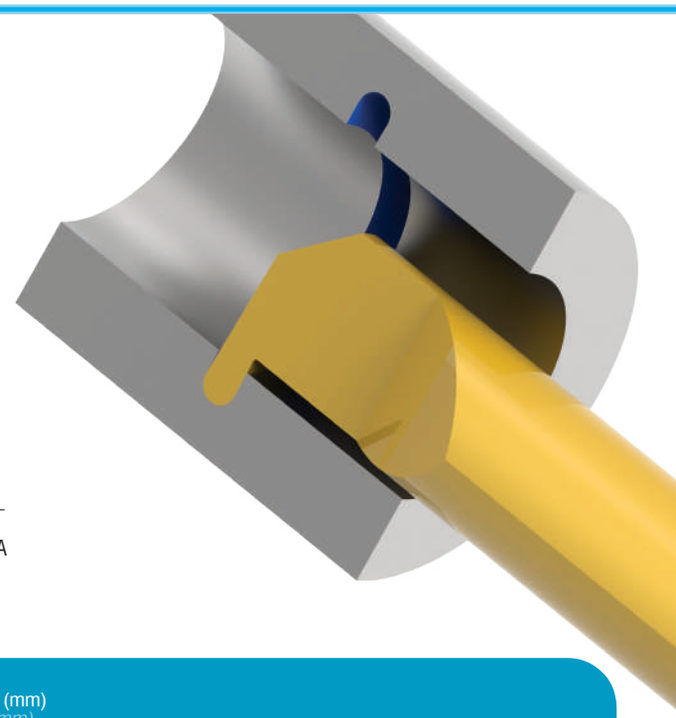
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
APG07.200.102	2.0	10.2	7.2	0.2	6.95	4.25	3.45	13	2.5	**7**
APG07.200.152	2.0	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	**7**
APG07.200.203	2.0	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	**7**
APG07.200.254	2.0	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	**7**
APG07.200.305	2.0	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	**7**
APG07.200.356	2.0	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	**7**
APG10.100.305	1.0	30.5	10.5	0.2	9.95	5.45	4.95	33.0	4.0	**10**
APG10.100.508	1.0	50.8	10.5	0.2	9.95	5.45	4.95	53.0	4.0	**10**
APG10.200.305	2.0	30.5	10.5	0.2	9.95	5.45	4.95	33.0	4.0	**10**
APG10.200.508	2.0	50.8	10.5	0.2	9.95	5.45	4.95	53.0	4.0	**10**
APG10.300.305	3.0	30.5	10.5	0.2	9.95	5.45	4.95	33.0	4.0	**10**
APG10.300.508	3.0	50.8	10.5	0.2	9.95	5.45	4.95	53.0	4.0	**10**

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APG07.200.102

KANAL AÇMA MİNİ CUT TAKIMLAR

MINI CUT GROOVING / MINI CUT NUTENSTECHEN



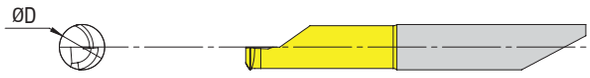


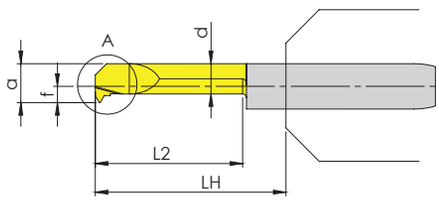
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
APG04.100.152.R050	1.0	15.2	4.2	0.5	3.95	2.95	1.95	18.0	0.8	4
APG04.117.152.R0585	1.17	15.2	4.2	0.585	3.95	2.95	1.95	18.0	0.8	4
APG05.100.203.R050	1.0	20.3	5.2	0.5	4.95	3.75	2.45	23.0	1.0	5
APG05.117.203.R0585	1.17	20.3	5.2	0.585	4.95	3.75	2.45	23.0	1.0	5
APG05.150.203.R075	1.5	20.3	5.2	0.75	4.95	3.75	2.45	23.0	1.0	5
APG05.1574.203.R0787	1.574	20.3	5.2	0.787	4.95	3.75	2.45	23.0	1.0	5
APG05.1626.203.R0813	1.626	20.3	5.2	0.813	4.95	3.75	2.45	23.0	1.0	5
APG05.198.203.R099	1.98	20.3	5.2	0.99	4.95	3.75	2.45	23.0	1.0	5
APG05.200.203.R100	2.0	20.3	5.2	1.0	4.95	3.75	2.45	23.0	1.0	5
APG06.100.254.R050	1.0	25.4	6.2	0.5	5.95	3.95	2.95	28.0	1.8	6
APG06.117.254.R0585	1.17	25.4	6.2	0.585	5.95	3.95	2.95	28.0	1.8	6
APG06.150.254.R075	1.5	25.4	6.2	0.75	5.95	3.95	2.95	28.0	1.8	6
APG06.1574.254.R0787	1.574	25.4	6.2	0.787	5.95	3.95	2.95	28.0	1.8	6
APG06.1626.254.R0813	1.626	25.4	6.2	0.813	5.95	3.95	2.95	28.0	1.8	6
APG06.198.254.R099	1.98	25.4	6.2	0.99	5.95	3.95	2.95	28.0	1.8	6
APG06.200.203.R100	2.0	20.3	6.2	1.0	5.95	3.95	2.95	23.0	1.8	6
APG06.200.254.R100	2.0	25.4	6.2	1.0	5.95	3.95	2.95	28.0	1.8	6
APG07.100.305.R050	1.0	30.5	7.2	0.5	6.95	4.25	3.45	33.0	2.5	7
APG07.117.305.R0585	1.17	30.5	7.2	0.585	6.95	4.25	3.45	33.0	2.5	7
APG07.150.305.R075	1.5	30.5	7.2	0.75	6.95	4.25	3.45	33.0	2.5	7
APG07.1574.305.R0787	1.574	30.5	7.2	0.787	6.95	4.25	3.45	33.0	2.5	7
APG07.1626.305.R0813	1.626	30.5	7.2	0.813	6.95	4.25	3.45	33.0	2.5	7
APG07.198.305.R099	1.98	30.5	7.2	0.99	6.95	4.25	3.45	33.0	2.5	7
APG07.200.305.R100	2.0	30.5	7.2	1.0	6.95	4.25	3.45	33.0	2.5	7

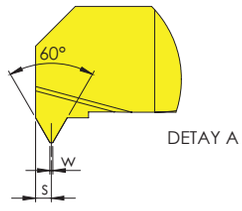
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APG04.100.152.R050

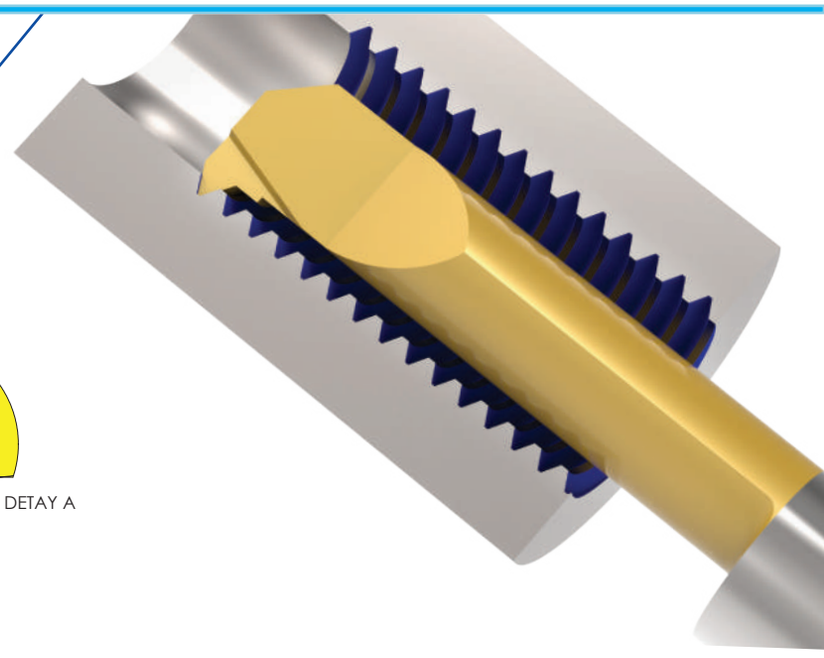
DİŞ ÇEKME MİNİ CUT TAKIMLAR

MINI CUT THREADING / MINI CUT GEWINDEN







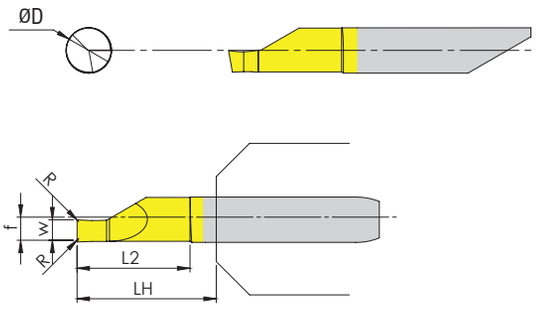


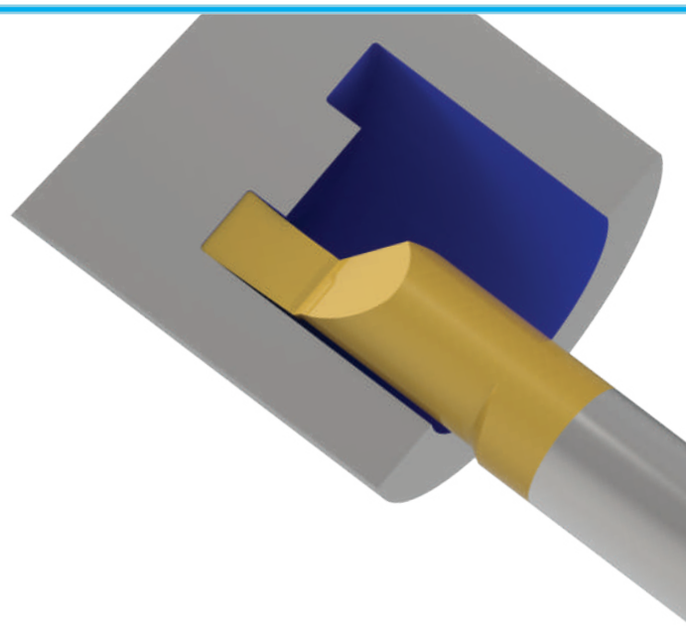
Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*											
	PiTCH		L2	ØDmin	a	d	f	LH	S	tmax	w	ØD
	min	max										
APT.04.152.080	0.8	1.0	15.2	4.2	3.65	2.7	1.95	18.0	0.45	0.46	0.1	**4**
APT.04.152.050	0.5	0.7	15.2	4.2	3.95	2.95	1.95	18.0	0.35	0.4	0.06	**4**
APT.05.152.100	1.0	1.25	15.2	4.8	4.55	3.55	2.25	18.0	0.55	0.7	0.12	**5**
APT.05.203.100	1.0	1.25	20.3	4.8	4.55	3.55	2.25	23.0	0.55	0.7	0.12	**5**
APT.05.254.100	1.0	1.25	25.4	4.8	4.55	3.55	2.25	28.0	0.55	0.7	0.12	**5**
APT.05.152.075	0.75	1.0	15.2	5.2	4.85	3.65	2.40	18.0	0.45	0.57	0.09	**5**
APT.05.152.050	0.5	0.75	15.2	5.2	4.95	3.75	2.45	18.0	0.35	0.43	0.06	**5**
APT.06.152.100	1.0	1.25	15.2	6.2	5.95	3.95	2.95	18.0	0.55	0.7	0.12	**6**
APT.06.152.125	1.25	1.5	15.2	6.2	5.95	3.95	2.95	18.0	0.75	0.84	0.16	**6**
APT.06.203.125	1.25	1.5	20.3	6.2	5.95	3.95	2.95	23.0	0.75	0.84	0.16	**6**
APT.06.254.125	1.25	1.5	25.4	6.2	5.95	3.95	2.95	28.0	0.75	0.84	0.16	**6**
APT.06.152.150	1.5	1.75	15.2	6.2	5.95	3.95	2.95	18.0	0.8	0.98	0.18	**6**
APT.06.203.150	1.5	1.75	20.3	6.2	5.95	3.95	2.95	23.0	0.8	0.98	0.18	**6**
APT.06.203.175	1.75	2.0	20.3	6.2	5.95	3.95	2.95	23.0	1.0	1.18	0.25	**6**

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APT.04.152.080

ALIN KANAL AÇMA MİNİ CUT TAKIMLAR

MINI CUT FACE GROOVING / MINI CUT AXIALSTECHEN

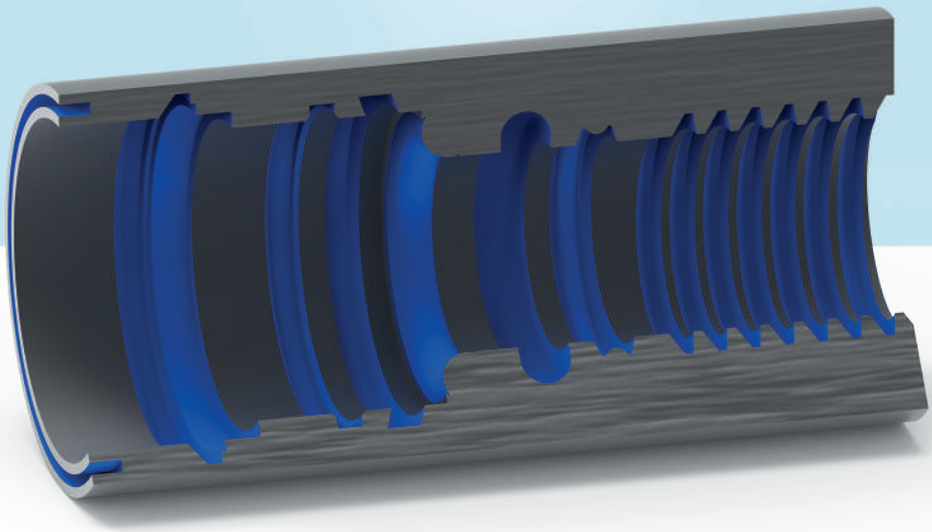




Ürün Kodu *Product Code* *Artikelnummer*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							
	W	L2	Ødmin	R	f	LH	tmax	ØD
APFG.06.152.0787.R005	0.787	15.2	6.2	0.05	2.95	18.0	1.8	**6**
APFG.06.152.1000.R005	1.0	15.2	6.2	0.05	2.95	18.0	2.0	**6**
APFG.06.152.1500.R005	1.5	15.2	6.2	0.05	2.95	18.0	3.0	**6**
APFG.06.152.1000.R015	1.0	15.2	6.2	0.15	2.95	18.0	2.0	**6**
APFG.06.152.1168.R015	1.168	15.2	6.2	0.15	2.95	18.0	2.34	**6**
APFG.06.152.1500.R015	1.5	15.2	6.2	0.15	2.95	18.0	3.0	**6**
APFG.06.152.1575.R015	1.575	15.2	6.2	0.15	2.95	18.0	3.15	**6**
APFG.06.152.1981.R015	1.981	15.2	6.2	0.15	2.95	18.0	3.95	**6**
APFG.06.152.2000.R015	2.0	15.2	6.2	0.15	2.95	18.0	4.0	**6**
APFG.06.152.2388.R015	2.388	15.2	6.2	0.15	2.95	18.0	5.0	**6**
APFG.06.152.2500.R015	2.5	15.2	6.2	0.15	2.95	18.0	5.0	**6**
APFG.06.152.3000.R015	3.0	15.2	6.2	0.15	2.95	18.0	6.0	**6**
APFG.06.152.3175.R015	3.175	15.2	6.2	0.15	2.95	18.0	6.0	**6**

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APFG.06.152.0787.R005

SPECIAL
MINI CUT TOOLS



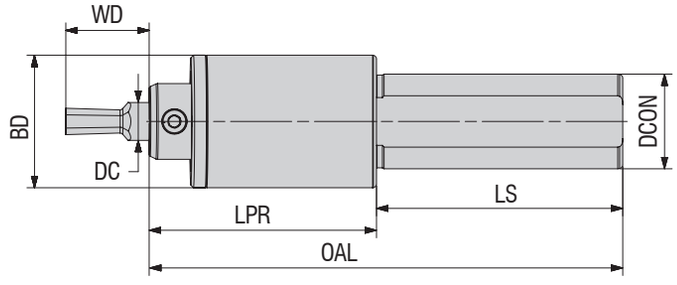
MINI CUT TAKIMLARI BİLGİ ALMA FORMU
INFORMATION REQUEST FORM FOR MINI CUT TOOLS
INFORMATIONSFORMULAR FÜR MINI CUT WERKZEUGE

TOOL TYPE	TOOL DIMENSIONS					
	ØD	ØDmin	L	RE	TMAX	
BORING ☐						
GROOVING ☐				RE - R1,R2	W	TMAX
FACE GROOVING ☐				RE - R1,R2	W	TMAX
THREADING ☐				CHOOSE THREADING TYPE		
				METRIC ☐	NPT ☐	UNF/UNC ☐
				TRAPEZOIDAL ☐	WHITWORTH ☐	ACME ☐

TORX - ALYAN / PUNCH - KAZIMA TAKIMLARI

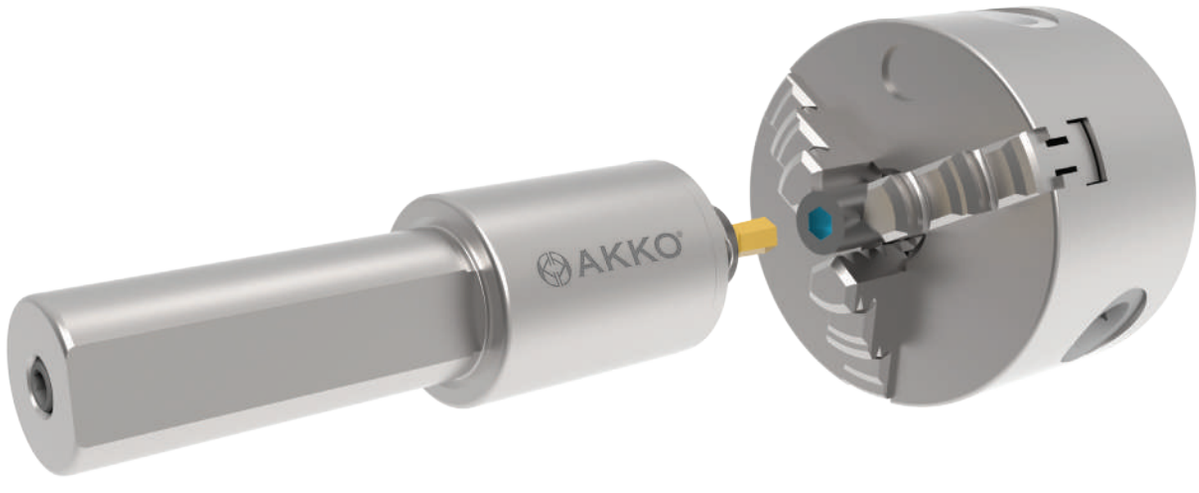
TORX-ALLEN / PUNCH - BROACH SET

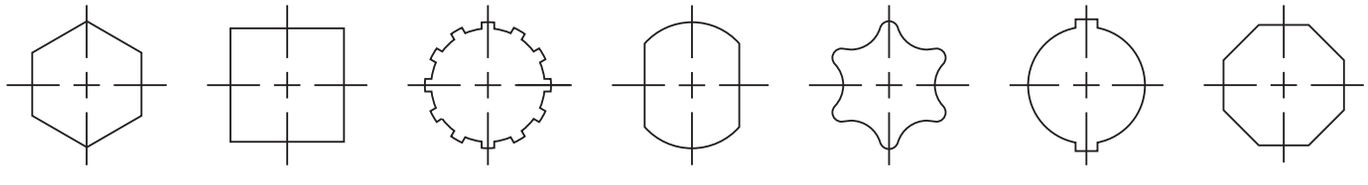
TORX WINKELSCHRAUBENDEHER WERKZEUGE

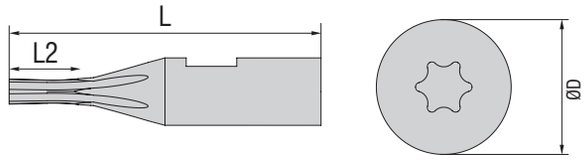


Ürün Kodu *Product Code* *Artikelnummer*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*						
	BD	DC	WD	LPR	LS	OAL	DCON
new ABTH-D08-W22-L125	Ø35.00	Ø08.00	15.00	60.00	65.00	125.00	Ø22.00
ABTH-D08-W25-L125	Ø35.00	Ø08.00	15.00	60.00	65.00	125.00	Ø25.00
new ABTH-D10-W20-L125	Ø35.00	Ø10.00	22.00	60.00	65.00	125.00	Ø20.00
new ABTH-D10-W22-L125	Ø35.00	Ø10.00	22.00	60.00	65.00	125.00	Ø22.00
new ABTH-D10-W25-L125	Ø35.00	Ø10.00	22.00	60.00	65.00	125.00	Ø25.00
new ABTH-D12-W25-L125	Ø53.00	Ø12.00	22.00	70.00	65.00	125.00	Ø25.00

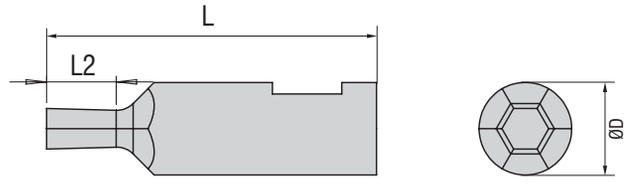
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ABTH-D08-W22-L125





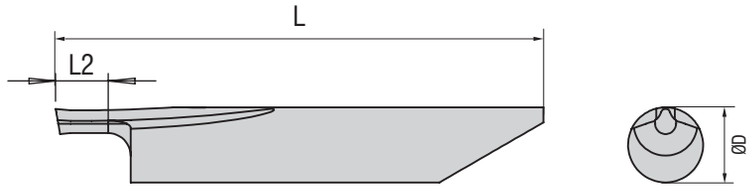


Ürün Kodu *Product Code* *Artikelnummer*	Soket Numarası *Socket Number* *Seriennummer*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*		
		ØD	L2	L
APTX-006	T6	8	3	30
APTX-008	T8	8	3.8	30
APTX-010	T10	8	4.6	30
APTX-015	T15	8	5.4	30
APTX-020	T20	8	6.2	30
APTX-025	T25	10	6.5	45
APTX-030	T30	10	7	45
APTX-040	T40	10	8	45
APTX-045	T45	10	9	45
APTX-050	T50	10	10	45



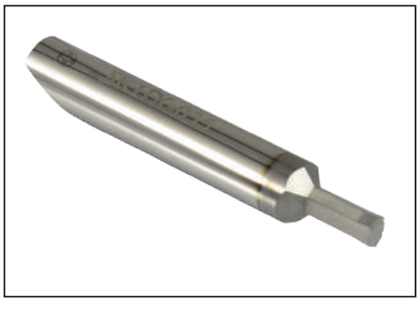
Ürün Kodu *Product Code* *Artikelnummer*	Soket Numarası *Socket Number* *Seriennummer*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*		
		ØD	L2	L
APHX-0015	A1.5	8	3	30
APHX-0020	A2.0	8	4	30
APHX-0025	A2.5	8	5	30
APHX-0030	A3.0	8	6	30
APHX-0035	A3.5	8	7	30
APHX-0040	A4.0	8	8	30
APHX-0045	A4.5	8	9	30
APHX-0050	A5.0	8	10	30
APHX-0060	A6.0	8	11	30
APHX-0080	A8.0	10	12	45
APHX-0100	A10	12	12	45

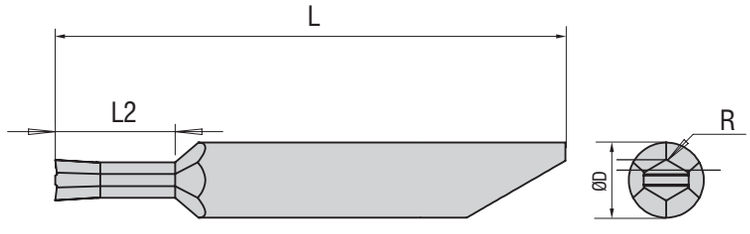
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück APTX-006



Ürün Kodu *Product Code* Artikelnummer	Soket Numarası *Socket Number* Seriennummer	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*		
		ØD	L2	L
AKTX-006	T6	6	3.0	38
AKTX-008	T8	6	4.0	38
AKTX-010	T10	6	4.5	38
AKTX-015	T15	6	4.5	38
AKTX-020	T20	6	5.0	38
AKTX-030	T30	6	6.0	38
AKTX-040	T40	6	6.5	38
AKTX-045	T45	6	7.0	38

Ürün Kodu *Product Code* Artikelnummer	Soket Numarası *Socket Number* Seriennummer	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*		
		ØD	L2	L
AKTX-050	T50	6	7.0	38
AKTX-055	T55	6	7.5	38
AKTX-060	T60	6	9.0	38
AKTX-070	T70	6	9.5	38
AKTX-080	T80	6	10.5	38
AKTX-090	T90	6	11.5	38
AKTX-0100	T100	6	12.0	38



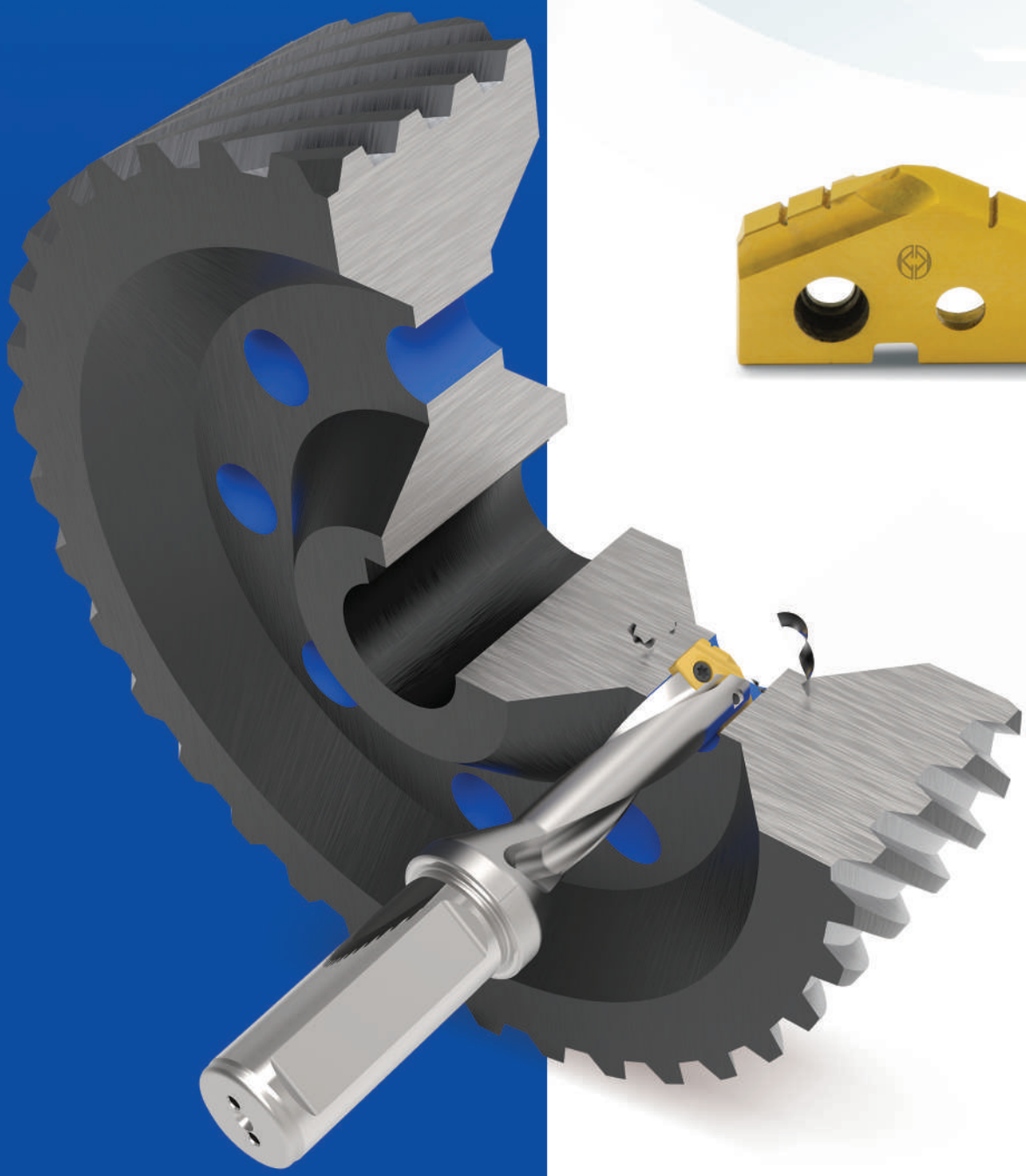


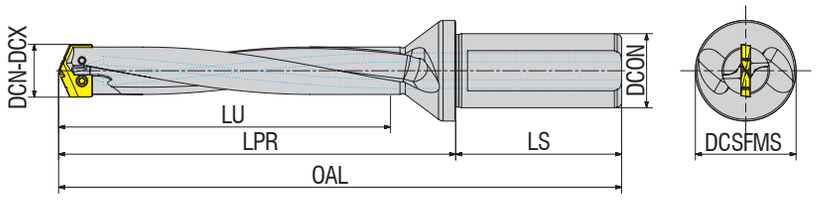
Ürün Kodu *Product Code* Artikelnummer	Soket Numarası *Socket Number* Seriennummer	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*			
		ØD	R	L2	L
AKHX-002-002	A2	6	0.05	3	38
AKHX-003-003	A3	6	0.05	6	38
AKHX-004-006	A4-6	6	0.10	8	38
AKHX-007-012	A7-12	8	0.15	12	38

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück AKTX-006

S-DRILL

S-DRILL UÇLARI ve TAKIMLARI
S-DRILL INSERTS and TOOLHOLDERS
WENDESCHNEIDPLATTEN und WERKZEUGE
FÜR SPATENBOHRER HALTER

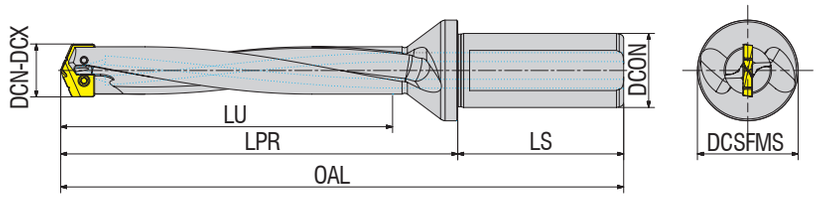




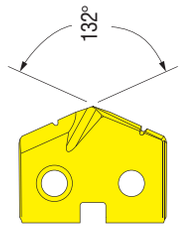
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* DCN	DCX	DCON	DCSFMS	OAL	LU	LPR	LS	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	
ASD-0110-0119-D5-FW20	○	11	11.9	20	25	127	60	77	50	**S1 SERIES**	3006-M2x4	82-T06
ASD-0120-0129-D5-FW20	○	12	12.9	20	25	132	65	82	50	**S1 SERIES**		
ASD-0130-0139-D5-FW20	○	13	13.9	20	25	137	70	87	50	**S2 SERIES**	3008-M2.5x6	82-T08
ASD-0140-0149-D5-FW20	○	14	14.9	20	25	142	75	92	50	**S2 SERIES**		
ASD-0150-0164-D5-FW20	○	15	16.4	20	25	147	80	97	50	**S2 SERIES**		
ASD-0165-0179-D5-FW25	○	16.5	17.9	25	34	158	85	102	56	**S2 SERIES**		
ASD-0180-0209-D5-FW25	○	18	20.9	25	34	168	95	112	56	**S3 SERIES**	4008-M3x8	
ASD-0210-0244-D5-FW25	○	21	24.4	25	34	183	110	127	56	**S3 SERIES**		
ASD-0245-0299-D5-FW25	○	24.5	29.9	25	34	198	125	142	56	**S4 SERIES**	4515-M4x8	80-T15
ASD-0300-0349-D5-FW32	○	30	34.9	32	44	237	155	177	60	**S4 SERIES**		
ASD-0350-0394-D5-FW32	○	35	39.4	32	44	262	180	202	60	**S5 SERIES**	1020-M5x14	
ASD-0395-0439-D5-FW40	○	39.5	43.9	40	54	297	200	227	70	**S5 SERIES**		
ASD-0440-0480-D5-FW40	○	44	48	40	54	322	225	252	70	**S5 SERIES**		

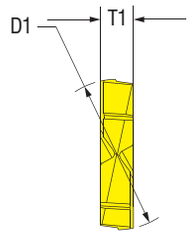
●Stokta / In Stock /*Auf Lager* ○Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

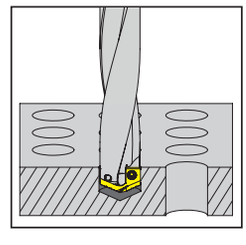
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ASD-0110-0119-D5-FW20



Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*								Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*	
		DCN	DCX	DCON	DCSFMS	OAL	LU	LPR	LS		Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
ASD-0110-0119-D7-FW20	○	11	11.9	20	25	149	82	99	50	**S1 SERIES**	3006-M2x4	82-T06
ASD-0120-0129-D7-FW20	○	12	12.9	20	25	156	89	106	50	**S1 SERIES**		
ASD-0130-0139-D7-FW20	○	13	13.9	20	25	163	96	113	50	**S2 SERIES**	3008-M2.5x6	82-T08
ASD-0140-0149-D7-FW20	○	14	14.9	20	25	170	103	120	50	**S2 SERIES**		
ASD-0150-0164-D7-FW20	○	15	16.4	20	25	177	110	127	50	**S2 SERIES**		
ASD-0165-0179-D7-FW25	○	16.5	17.9	25	34	190	117	134	56	**S2 SERIES**		
ASD-0180-0209-D7-FW25	○	18	20.9	25	34	204	131	148	56	**S3 SERIES**	4008-M3x8	
ASD-0210-0244-D7-FW25	○	21	24.4	25	34	225	152	169	56	**S3 SERIES**		
ASD-0245-0299-D7-FW25	○	24.5	29.9	25	34	246	173	190	56	**S4 SERIES**	4515-M4x8	80-T15
ASD-0300-0349-D7-FW32	○	30	34.9	32	44	297	215	237	60	**S4 SERIES**		
ASD-0350-0394-D7-FW32	○	35	39.4	32	44	332	250	272	60	**S5 SERIES**	1020-M5x14	
ASD-0395-0439-D7-FW40	○	39.5	43.9	40	54	375	278	305	70	**S5 SERIES**		
ASD-0440-0480-D7-FW40	○	44	48	40	54	410	313	340	70	**S5 SERIES**		







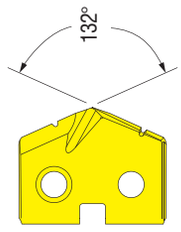
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*		Kaplamasız *Uncoated* *ohne Beschichtung*	Kaplama *Coating* *Beschichtung*		Uyumlu Takım *Compatible Toolholder* *Kompatibeles Werkzeug*
		D1	T1	Uncoated	Sigma	Epsilon	
ASI.M.1100.SG	○	11.00	2.38	AK20X00	AK20X01	AK20X02	ASD-0110-0119-D7-FW20
ASI.M.1150.SG	○	11.50	2.38	AK20X00	AK20X01	AK20X02	ASD-0110-0119-D7-FW20
ASI.M.1200.SG	○	12.00	2.38	AK20X00	AK20X01	AK20X02	ASD-0120-0129-D7-FW20
ASI.M.1250.SG	○	12.50	2.38	AK20X00	AK20X01	AK20X02	ASD-0120-0129-D7-FW20
ASI.M.1290.SG	○	12.90	2.38	AK20X00	AK20X01	AK20X02	ASD-0120-0129-D7-FW20

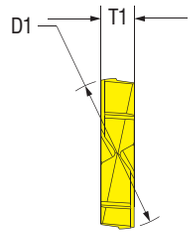
●Stokta / In Stock /*Auf Lager* ○Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

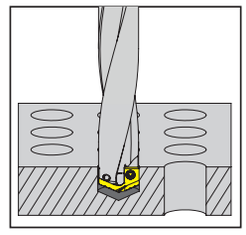
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ASD-0110-0119-D7-FW20

new

K for cast iron / döküm kalite



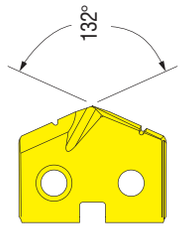


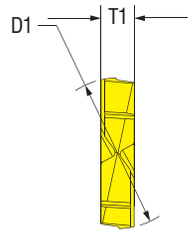


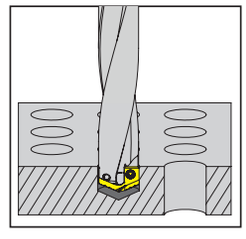
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*		Kaplamasız *Uncoated* *ohne Beschichtung*	Kaplama *Coating* *Beschichtung*		Uyumlu Takım *Compatible Toolholder* *Kompatibeles Werkzeug*
		D1	T1	Uncoated	Sigma	Epsilon	
ASI.M.1300.SG	○	13.00	3.18	AK20X00	AK20X01	AK20X02	ASD-0130-0139-D7-FW20
ASI.M.1350.SG	○	13.50	3.18	AK20X00	AK20X01	AK20X02	ASD-0130-0139-D7-FW20
ASI.M.1400.SG	○	14.00	3.18	AK20X00	AK20X01	AK20X02	ASD-0140-0149-D7-FW20
ASI.M.1450.SG	○	14.50	3.18	AK20X00	AK20X01	AK20X02	ASD-0140-0149-D7-FW20
ASI.M.1500.SG	○	15.00	3.18	AK20X00	AK20X01	AK20X02	ASD-0150-0164-D7-FW20
ASI.M.1550.SG	○	15.50	3.18	AK20X00	AK20X01	AK20X02	ASD-0150-0164-D7-FW20
ASI.M.1600.SG	○	16.00	3.18	AK20X00	AK20X01	AK20X02	ASD-0150-0164-D7-FW20
ASI.M.1650.SG	○	16.50	3.18	AK20X00	AK20X01	AK20X02	ASD-0165-0179-D7-FW25
ASI.M.1700.SG	○	17.00	3.18	AK20X00	AK20X01	AK20X02	ASD-0165-0179-D7-FW25
ASI.M.1750.SG	○	17.50	3.18	AK20X00	AK20X01	AK20X02	ASD-0165-0179-D7-FW25
ASI.M.1790.SG	○	17.90	3.18	AK20X00	AK20X01	AK20X02	ASD-0165-0179-D7-FW25

new

K for cast iron / döküm kalite







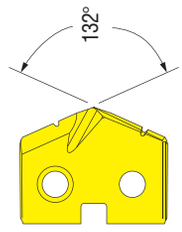
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*		Kaplamasız *Uncoated* *ohne Beschichtung*	Kaplama *Coating* *Beschichtung*		Uyumlu Takım *Compatible Toolholder* *Kompatibeles Werkzeug*
		D1	T1	Uncoated	Sigma	Epsilon	
ASI.M.1800.SG	○	18.00	3.97	AK20X00	AK20X01	AK20X02	ASD-0180-0209-D7-FW25
ASI.M.1850.SG	○	18.50	3.97	AK20X00	AK20X01	AK20X02	ASD-0180-0209-D7-FW25
ASI.M.1900.SG	○	19.00	3.97	AK20X00	AK20X01	AK20X02	ASD-0180-0209-D7-FW25
ASI.M.1950.SG	○	19.50	3.97	AK20X00	AK20X01	AK20X02	ASD-0180-0209-D7-FW25
ASI.M.2000.SG	○	20.00	3.97	AK20X00	AK20X01	AK20X02	ASD-0180-0209-D7-FW25
ASI.M.2050.SG	○	20.50	3.97	AK20X00	AK20X01	AK20X02	ASD-0180-0209-D7-FW25
ASI.M.2100.SG	○	21.00	3.97	AK20X00	AK20X01	AK20X02	ASD-0210-0244-D7-FW25
ASI.M.2150.SG	○	21.50	3.97	AK20X00	AK20X01	AK20X02	ASD-0210-0244-D7-FW25
ASI.M.2200.SG	○	22.00	3.97	AK20X00	AK20X01	AK20X02	ASD-0210-0244-D7-FW25
ASI.M.2250.SG	○	22.50	3.97	AK20X00	AK20X01	AK20X02	ASD-0210-0244-D7-FW25
ASI.M.2300.SG	○	23.00	3.97	AK20X00	AK20X01	AK20X02	ASD-0210-0244-D7-FW25
ASI.M.2350.SG	○	23.50	3.97	AK20X00	AK20X01	AK20X02	ASD-0210-0244-D7-FW25
ASI.M.2400.SG	○	24.00	3.97	AK20X00	AK20X01	AK20X02	ASD-0210-0244-D7-FW25
ASI.M.2440.SG	○	24.40	3.97	AK20X00	AK20X01	AK20X02	ASD-0210-0244-D7-FW25

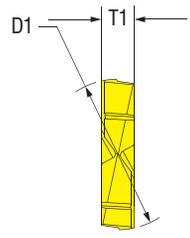
●Stokta / In Stock /*Auf Lager* ○Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

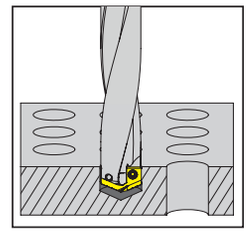
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ASI.M.1300.SG

new

K for cast iron / döküm kalite







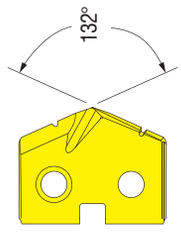
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*		Kaplamasız *Uncoated* *ohne Beschichtung*	Kaplama *Coating* *Beschichtung*		Uyumlu Takım *Compatible Toolholder* *Kompatibeles Werkzeug*
		D1	T1	Uncoated	Sigma	Epsilon	
ASI.M.2450.SG	○	24.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.2500.SG	○	25.00	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.2550.SG	○	25.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.2600.SG	○	26.00	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.2650.SG	○	26.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.2700.SG	○	27.00	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.2750.SG	○	27.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.2800.SG	○	28.00	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.2850.SG	○	28.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.2900.SG	○	29.00	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.2950.SG	○	29.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0245-0299-D7-FW25
ASI.M.3000.SG	○	30.00	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32
ASI.M.3050.SG	○	30.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32
ASI.M.3100.SG	○	31.00	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32
ASI.M.3150.SG	○	31.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32
ASI.M.3200.SG	○	32.00	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32
ASI.M.3250.SG	○	32.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32
ASI.M.3300.SG	○	33.00	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32
ASI.M.3350.SG	○	33.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32
ASI.M.3400.SG	○	34.00	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32
ASI.M.3450.SG	○	34.50	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32
ASI.M.3490.SG	○	34.90	4.76	AK20X00	AK20X01	AK20X02	ASD-0300-0349-D7-FW32

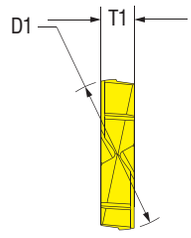
● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

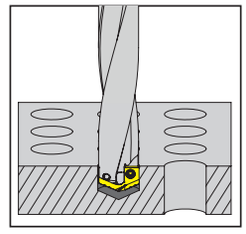
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ASI.M.2450.SG

new

K for cast iron / döküm kalite



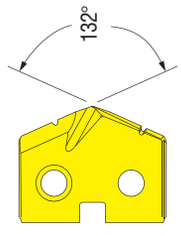


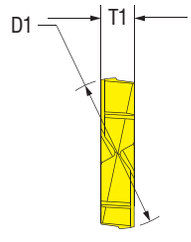


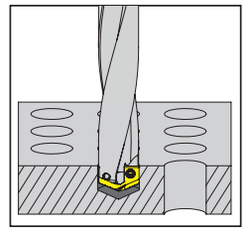
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*		Kaplamasız *Uncoated* *ohne Beschichtung*	Kaplama *Coating* *Beschichtung*		Uyumlu Takım *Compatible Toolholder* *Kompatibeles Werkzeug*
		D1	T1	Uncoated	Sigma	Epsilon	
ASI.M.3500.SG	○	35.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0350-0394-D5-FW32
ASI.M.3550.SG	○	35.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0350-0394-D5-FW32
ASI.M.3600.SG	○	36.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0350-0394-D5-FW32
ASI.M.3650.SG	○	36.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0350-0394-D5-FW32
ASI.M.3700.SG	○	37.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0350-0394-D5-FW32
ASI.M.3750.SG	○	37.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0350-0394-D5-FW32
ASI.M.3800.SG	○	38.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0350-0394-D5-FW32
ASI.M.3850.SG	○	38.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0350-0394-D5-FW32
ASI.M.3900.SG	○	39.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0350-0394-D5-FW32
ASI.M.3950.SG	○	39.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0395-0439-D5-FW40
ASI.M.4000.SG	○	40.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0395-0439-D5-FW40
ASI.M.4050.SG	○	40.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0395-0439-D5-FW40
ASI.M.4100.SG	○	41.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0395-0439-D5-FW40

new

K for cast iron / döküm kalite







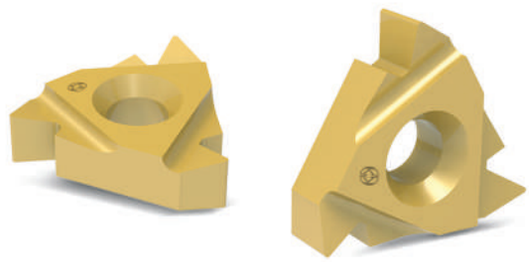
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*		Kaplamasız *Uncoated* *ohne Beschichtung*	Kaplama *Coating* *Beschichtung*		Uyumlu Takım *Compatible Toolholder* *Kompatibeles Werkzeug*
		D1	T1	Uncoated	Sigma	Epsilon	
ASI.M.4150.SG	○	41.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0395-0439-D5-FW40
ASI.M.4200.SG	○	42.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0395-0439-D5-FW40
ASI.M.4250.SG	○	42.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0395-0439-D5-FW40
ASI.M.4300.SG	○	43.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0395-0439-D5-FW40
ASI.M.4350.SG	○	43.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0395-0439-D5-FW40
ASI.M.4400.SG	○	44.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0440-0480-D5-FW40
ASI.M.4450.SG	○	44.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0440-0480-D5-FW40
ASI.M.4500.SG	○	45.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0440-0480-D5-FW40
ASI.M.4550.SG	○	45.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0440-0480-D5-FW40
ASI.M.4600.SG	○	46.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0440-0480-D5-FW40
ASI.M.4650.SG	○	46.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0440-0480-D5-FW40
ASI.M.4700.SG	○	47.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0440-0480-D5-FW40
ASI.M.4750.SG	○	47.50	6.35	AK20X00	AK20X01	AK20X02	ASD-0440-0480-D5-FW40
ASI.M.4800.SG	○	48.00	6.35	AK20X00	AK20X01	AK20X02	ASD-0440-0480-D5-FW40

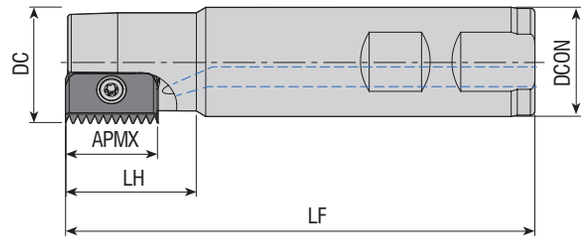
Sipariş Örneği/Ordering Example/*Bestellbeispiel* 1 ad./pcs./stück ASI.M.3500.SG ●Stokta / In Stock /*Auf Lager* ○Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

DİŞ AÇMA UÇLARI ve TAKIMLARI

THREADING INSERTS and TOOLS

GEWINDESCHNEIDPLATTEN und WERKZEUGE

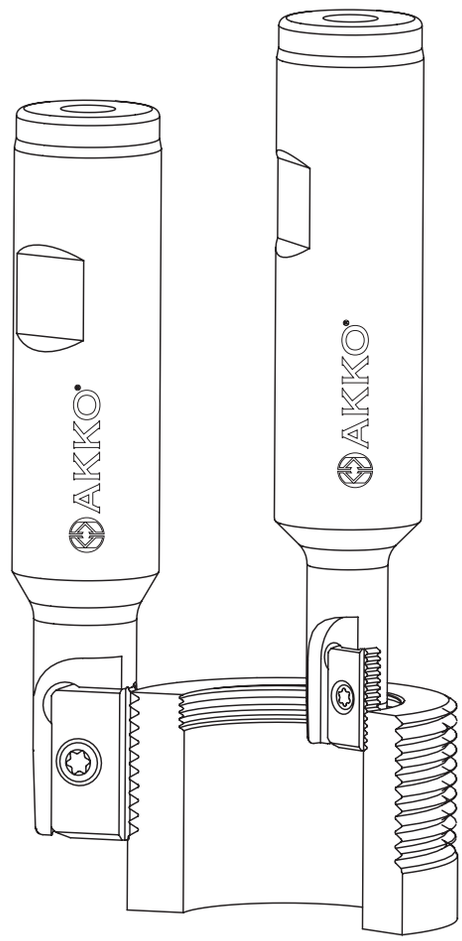


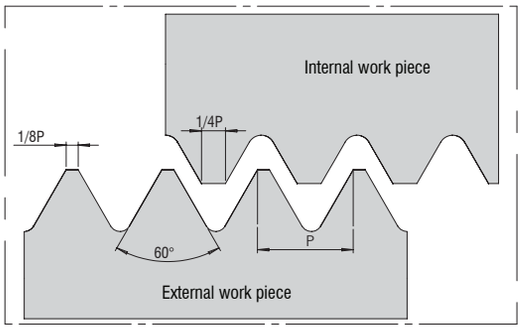


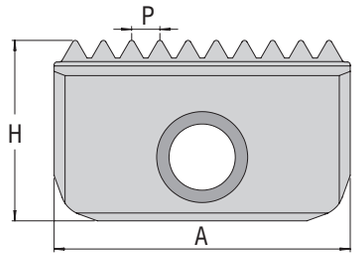
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*						Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
		DC	ZEFP	DCON	LF	LH	APMX			
ATM-C14-D14-W20-L100-Z01-H	●	14	1	20	100	25	14	**C14**	3008-M2.5x6	82-T08
ATM-C21-D18-W20-L100-Z01-H	●	18	1	20	100	30	21	**C21**	4015-M4x9	80-T15
ATM-C21-D21-W25-L125-Z01-H	●	21	1	25	125	40	21		4015-M4x11	
ATM-C21-D25-W20-L125-Z01-H	●	25	1	20	125	30	21			
ATM-C21-D28-W25-L90-Z01-H	●	28	1	25	90	30	21			
ATM-C21-D38-W32-L90-Z03-H	●	38	3	32	90	30	21			
ATM-C21-D38-W32-L120-Z03-H	●	38	3	32	120	30	21			
ATM-C21-D43-W32-L90-Z03-H	●	43	3	32	90	30	21			
ATM-C30-D29-W25-L150-Z01-H	●	29	1	25	150	50	30	**C30**	1020-M5x14	80-T20

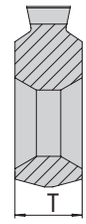
CPT Ucuna Uygundur. / Compatible with CPT Insert. / Kompatibel mit CPT Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATM-C14-D14-W20-L100-Z01-H





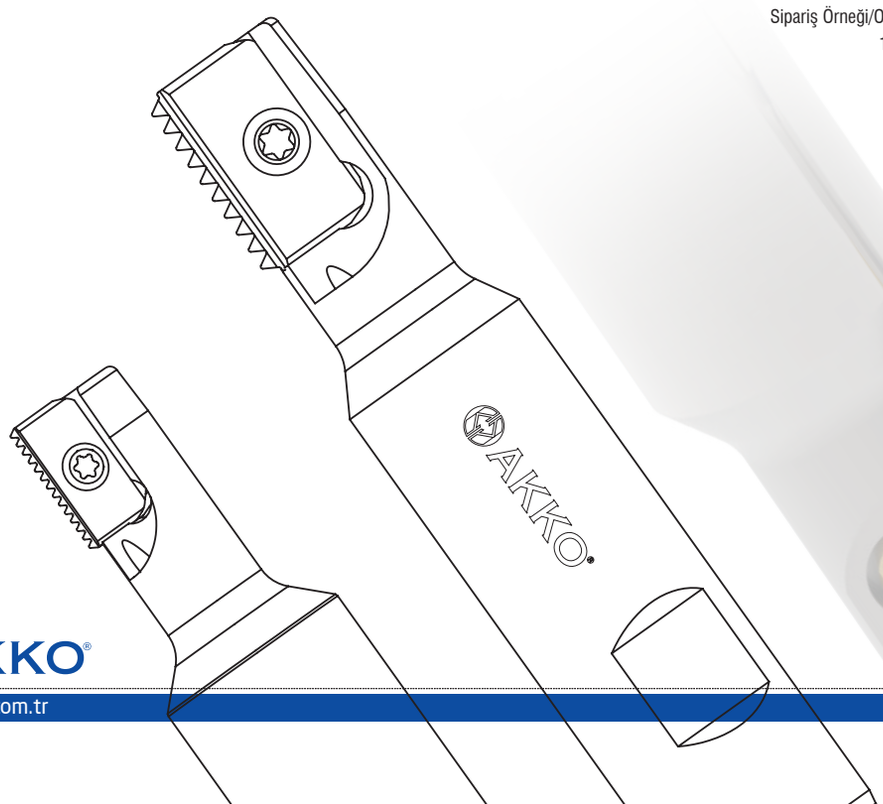




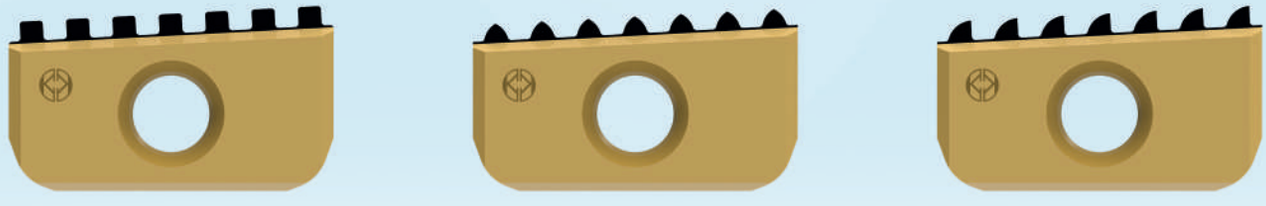
Ürün Kodu *Product Code* *Artikelnummer*	Insert Tipi *Insert Type* *Wendeplatten Typ* *A*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*		
		Adım *Pitch* *Wendeplatten Typ*	H	T
ADTI14.050.M	C14	0.5	7.5	3.1
ADTI14.075.M		0.75	7.5	3.1
ADTE14.075.M		0.75	7.5	3.1
ADTI14.100.M		1.00	7.5	3.1
ADTE14.100.M		1.00	7.5	3.1
ADTI14.125.M		1.25	7.5	3.1
ADTE14.125.M		1.25	7.5	3.1
ADTI14.150.M		1.50	7.5	3.1
ADTE14.150.M		1.50	7.5	3.1
ADTI14.175.M		1.75	7.5	3.1
ADTE14.175.M		1.75	7.5	3.1
ADTI14.200.M		2.00	7.5	3.1
ADTE14.200.M		2.00	7.5	3.1
ADTI14.250.M		2.50	7.5	3.1
ADTE14.250.M		2.50	7.5	3.1

Ürün Kodu *Product Code* *Artikelnummer*	Insert Tipi *Insert Type* *Wendeplatten Typ* *A*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*		
		Adım *Pitch* *Wendeplatten Typ* *(P)*	H	T
ADTI21.100.M	C21	1.00	12	4.7
ADTE21.100.M		1.00	12	4.7
ADTI21.150.M		1.50	12	4.7
ADTE21.150.M		1.50	12	4.7
ADTI21.175.M		1.75	12	4.7
ADTI21.200.M		2.00	12	4.7
ADTE21.200.M		2.00	12	4.7
ADTI21.250.M		2.50	12	4.7
ADTE21.250.M		2.50	12	4.7
ADTI21.300.M		3.00	12	4.7
ADTE21.300.M		3.00	12	4.7
ADTI21.350.M		3.5	12	4.7

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ADTI14.050.M



SPECIAL THREADING MILLING TOOLS

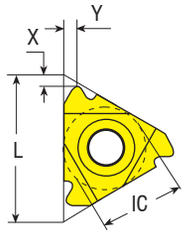


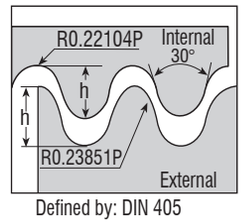
DİŞ TARAĞI BİLGİ ALMA FORMU
INFORMATION FORM FOR SPECIAL THREAD MILLING INSERTS
INFORMATIONSFORM FÜR SONDER GEWINDEFRÄSERWERKZEUGE

İnsert Type	Thread Type	Thread Pitch mm	Thread Profile
C 14	External ☐ Internal ☐ Nötr ☐		ISO ☐ UN ☐ WHIT ☐ NPT ☐ NPTF ☐ BSPT ☐ NPS ☐ NPSF ☐ PG ☐
C 21	External ☐ Internal ☐ Nötr ☐		ISO ☐ UN ☐ WHIT ☐ NPT ☐ NPTF ☐ BSPT ☐ NPS ☐ NPSF ☐ PG ☐

EX-RH
IN-LH

ROUND
Dış çap / External / Außen



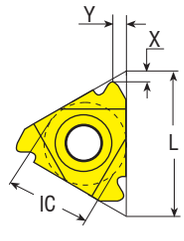


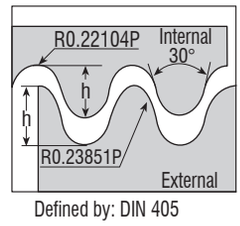
Defined by: DIN 405

Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* IC	L	Adım / *Pitch* / *Wendeplatten Typ* (TPI)	h	X	Y	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG
16ST ER/L 10RD	○	○	9.53	16	10	1.27	1.1	1.2	SER/L ….. .16C
16ST ER/L 8RD	○	○	9.53	16	8	1.59	1.4	1.3	
16ST ER/L 6RD	○	○	9.53	16	6	2.12	1.5	1.7	
22ST ER/L 6RD	○	○	13	22	6	2.12	1.5	1.7	SER/L ….. .22C
22ST ER/L 4RD	○	○	13	22	4	3.18	2.2	2.3	
27ST ER/L 4RD	○	○	15.88	27	4	3.18	2.2	2.3	TER/L ….. .27

IN-RH
EX-LH

ROUND
İç çap / Internal / Innen





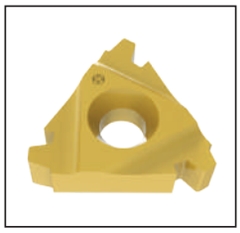
Defined by: DIN 405

Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* IC	L	Adım / *Pitch* / *Wendeplatten Typ* (TPI)	h	X	Y	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG
16ST IR/L 10RD	○	○	9.53	16	10	1.27	1.1	1.2	SIR/L ……. 16C
16ST IR/L 8RD	○	○	9.53	16	8	1.59	1.4	1.3	
16ST IR/L 6RD	○	○	9.53	16	6	2.12	1.5	1.7	
22ST IR/L 6RD	○	○	13	22	6	2.12	1.5	1.7	SIR/L S... 22C
22ST IR/L 4RD	○	○	13	22	4	3.18	2.2	2.3	
27ST IR/L 4RD	○	○	15.88	27	4	3.18	2.2	2.3	TIR/L S… 27

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

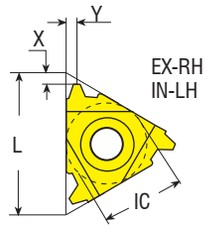
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück 16ST ER 10RD

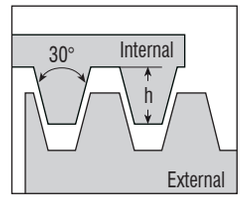
new



TRAPEZ

Dış çap / External / Außen

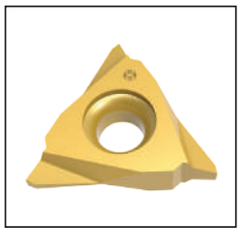




Defined by: DIN 103

Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* IC	L	Adım / *Pitch* / *Wendeplatten Typ*	h	X	Y	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG
16ST ER/L 1.5TR	○	○	9.53	16	1.5	0.90	1.0	1.1	SER/L 2525 M16C-T
16ST ER/L 2.0TR	○	○	9.53	16	2.0	1.25	1.1	1.3	
16ST ER/L 2.5TR	○	○	9.53	16	2.5	1.55	1.2	1.4	
16ST ER/L 3.0TR	○	○	9.53	16	3.0	1.75	1.3	1.5	
22ST ER/L 4.0TR	○	○	13	22	4.0	2.25	1.7	1.9	SER/L 2525 M22C-T
22ST ER/L 5.0TR	○	○	13	22	5.0	2.75	2.1	2.5	
22ST ER/L 6.0TR	○	○	13	22	6.0	3.50	2.3	2.7	
27ST ER/L 6.0TR	○	○	15.88	27	6.0	3.50	2.3	2.7	TER/L …. .27

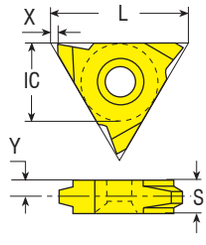
new

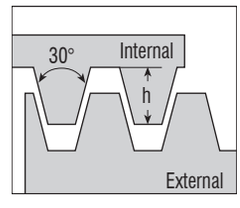


TRAPEZ

Dış çap / External / Außen

V Tip / V Type / V Typ

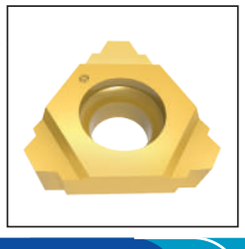




Defined by: DIN 103

Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* IC	L	Adım / *Pitch* / *Wendeplatten Typ*	h	X	Y	S
27VT ER/L 6.0TR	○	○	15.88	27	6.0	3.50	1.0	3.3	6.38
27VT ER/L 7.0TR	○	○	15.88	27	7.0	4.00	1.0	3.3	6.38
27VT ER/L 8.0TR	○	○	15.88	27	8.0	4.50	1.0	3.3	6.38

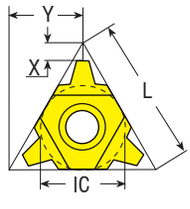
new

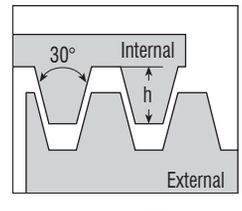


TRAPEZ

Dış çap / External / Außen

U Tip / U Type / U Typ

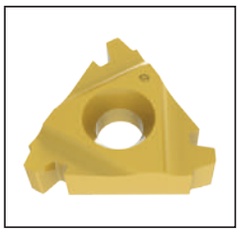




Defined by: DIN 103

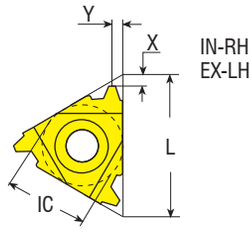
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* IC	L	Adım / *Pitch* / *Wendeplatten Typ*	h	X	Y
22UT E 6.0TR	○	13	22	6.0	3.50	2.0	11.0
22UT E 7.0TR	○	13	22	7.0	4.0	2.3	11.0
22UT E 8.0TR	○	13	22	8.0	4.50	2.6	11.0
27UT E 8.0TR	○	15.88	27	8.0	4.50	2.6	13.7
27UT E 9.0TR	○	15.88	27	9.0	5.00	3.0	13.7

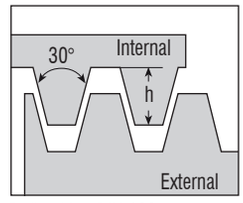
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück 16ST ER 1.5TR



TRAPEZ

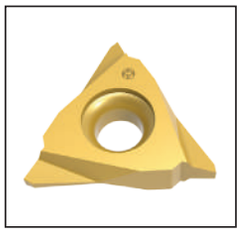
İç çap / Internal / Innen





Defined by: DIN 103

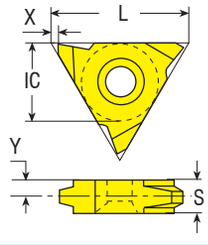
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* IC	L	Adım / *Pitch* / *Wendeplatten Typ*	h	X	Y	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBELES WERKZEUG
16ST IR/L 1.5TR	○	○	9.53	16	1.5	0.90	1.0	1.1	SIR/L S25R 16C-T
16ST IR/L 2.0TR	○	○	9.53	16	2.0	1.25	1.1	1.3	
16ST IR/L 2.5TR	○	○	9.53	16	2.5	1.53	1.2	1.4	
16ST IR/L 3.0TR	○	○	9.53	16	3.0	1.75	1.3	1.5	
22ST IR/L 4.0TR	○	○	13	22	4.0	2.25	1.7	1.9	SIR/L S25R 22C-T
22ST IR/L 5.0TR	○	○	13	22	5.0	2.75	2.1	2.5	
22ST IR/L 6.0TR	○	○	13	22	6.0	3.50	2.3	2.7	
27ST IR/L 6.0TR	○	○	15.88	27	6.0	3.50	2.3	2.7	TIR/L S... 27

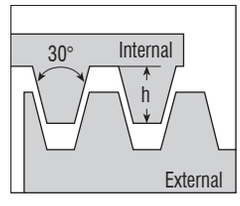


TRAPEZ

İç çap / Internal / Innen

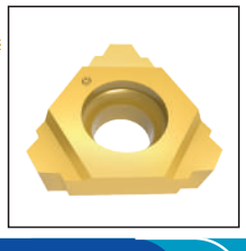
V Tip / V Type / V Typ





Defined by: DIN 103

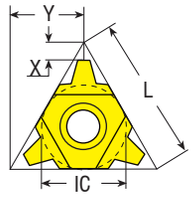
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* IC	L	Adım / *Pitch* / *Wendeplatten Typ*	h	X	Y	S
27VT IR/L 6.0TR	○	○	15.88	27	6.0	3.50	1.0	3.3	6.38
27VT IR/L 7.0TR	○	○	15.88	27	7.0	4.00	1.0	3.3	6.38
27VT IR/L 8.0TR	○	○	15.88	27	8.0	4.50	1.0	3.3	6.38

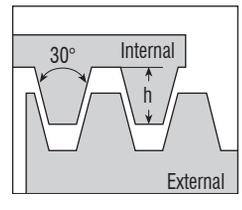


TRAPEZ

İç çap / Internal / Innen

U Tip / U Type / U Typ





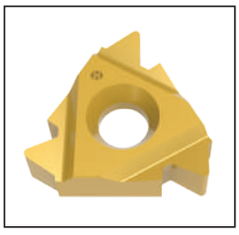
Defined by: DIN 103

Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* IC	L	Adım / *Pitch* / *Wendeplatten Typ*	h	X	Y
22UT I 6.0TR	○	13	22	6.0	3.50	2.0	11.0
22UT I 7.0TR	○	13	22	7.0	4.0	2.3	11.0
22UT I 8.0TR	○	13	22	8.0	4.50	2.6	11.0
27UT I 8.0TR	○	15.88	27	8.0	4.50	2.6	13.7
27UT I 9.0TR	○	15.88	27	9.0	5.00	3.0	13.7

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*

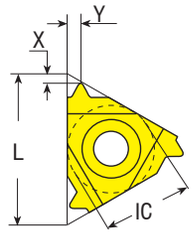
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

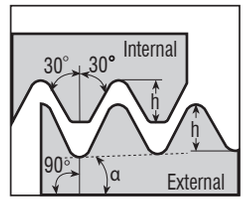
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück 216ST IR 1.5TR



OIL AND GAS INDUSTRY

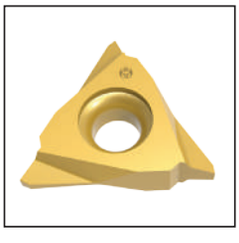
Dış çap / External / Außen





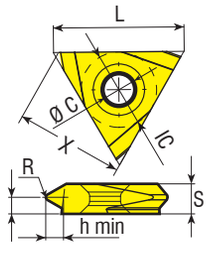
Defined by: API SPEC. 7:1990

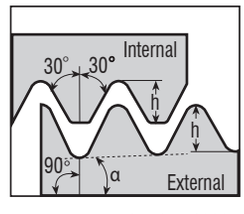
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* Diş / Thread / *Gewinde*	IC	Adım / Pitch / (TPI) *Wendeplatten Typ*	Koniklik / Taper / Konisch	hmin	X	Y	L	Bağlantı numarası veya boyutu / Connection no. or size
22ST ER 4APIV382	○	○	V-0.038R	13	4	2	3.09	2.1	2.8	22	NC23-NC50
22ST ER 4APIV383	○	○	V-0.038R	13	4	3	3.08	2.1	2.8	22	NC56-NC77
22ST ER 4APIV502	○	○	V-0.050	13	4	2	3.75	2.0	2.9	22	6 5/8” REG, 5 1/2”FH, 6 5/8” FH
22ST ER 4APIV503	○	○	V-0.050	13	4	3	3.74	2.0	2.9	22	5 1/2”, 7 5/8”, 8 5/8” REG
22ST ER 5APIV403	○	○	V-0.040	13	5	3	2.99	1.8	2.6	22	2 3/8”-4 1/2” REG
22ST ER 6APIV551	○	○	V-0.055	13	6	1.5	1.41	2.6	2.0	22	NC10-NC16
27ST ER 4APIV382	○	○	V-0.038R	15.88	4	2	3.09	2.1	2.8	27	NC23-NC50
27ST ER 4APIV383	○	○	V-0.038R	15.88	4	3	3.08	2.1	2.8	27	NC56-NC77
27ST ER 4APIV502	○	○	V-0.050	15.88	4	2	3.75	2.1	3.1	27	6 5/8” REG, 5 1/2”FH, 6 5/8” FH
27ST ER 4APIV503	○	○	V-0.050	15.88	4	3	3.74	2.1	3.1	27	5 1/2”, 7 5/8”, 8 5/8” REG
27ST ER 5APIV403	○	○	V-0.040	15.88	5	3	2.99	1.9	2.7	27	2 3/8”-4 1/2” REG
27ST ER 4APIV652	○	○	V-0.065	15.88	4	2	2.81	2.3	2.8	27	2 3/8”IF- 5 1/2IF



OIL AND GAS INDUSTRY

Dış çap / External / Außen
V Tip / V Type / V Typ



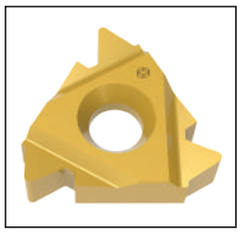


Defined by: API SPEC. 7:1990

Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* Diş / Thread / *Gewinde*	IC	Adım / Pitch / (TPI) *Wendeplatten Typ*	Koniklik / Taper / Konisch	R	hmin	S	C	X	Y	L	Bağlantı numarası veya boyutu / Connection no. or size
27VT ER 5API403	○	○	V-0.040	15.88	5	3	0.51	3.00	6.38	6.20	23.4	3.9	27	2 3/8”-4 1/2” REG

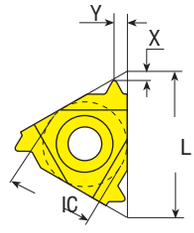
R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

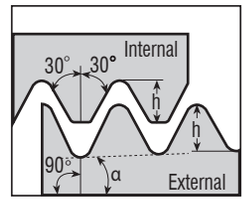
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück 22ST ER 4APIV382



OIL AND GAS INDUSTRY

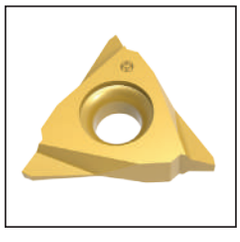
İç çap / Internal / Innen





Defined by: API SPEC. 7:1990

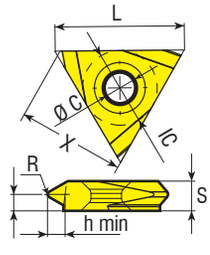
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* Diş / Thread / *Gewinde*	IC	Adım / Pitch / (TPI) *Wendeplatten Typ*	Koniklik / Taper / Konisch	hmin	X	Y	L	Bağlantı numarası veya boyutu / Connection no. or size
22ST IR 4APIV382	○	○	V-0.038R	13	4	2	3.09	2.1	2.8	22	NC23-NC50
22ST IR 4APIV383	○	○	V-0.038R	13	4	3	3.08	2.1	2.8	22	NC56-NC77
22ST IR 4APIV502	○	○	V-0.050	13	4	2	3.75	2.1	3.1	22	6 5/8” REG, 5 1/2”FH, 6 5/8” FH
22ST IR 4APIV503	○	○	V-0.050	13	4	3	3.74	2.0	2.9	22	5 1/2”, 7 5/8”, 8 5/8” REG
22ST IR 5APIV403	○	○	V-0.040	13	5	3	2.99	1.8	2.6	22	2 3/8”-4 1/2” REG
22ST IR 5APIV551	○	○	V-0.055	13	6	1.5	1.41	2.6	2.0	22	NC10-NC16
27ST IR 4APIV382	○	○	V-0.038R	15.88	4	2	3.09	2.1	2.8	27	NC23-NC50
27ST IR 4APIV383	○	○	V-0.038R	15.88	4	3	3.08	2.1	2.8	27	NC56-NC77
27ST IR 4APIV502	○	○	V-0.050	15.88	4	2	3.75	2.1	3.1	27	6 5/8” REG, 5 1/2”FH, 6 5/8” FH
27ST IR 4APIV503	○	○	V-0.050	15.88	4	3	3.74	2.1	3.1	27	5 1/2”, 7 5/8”, 8 5/8” REG
27ST IR 5APIV403	○	○	V-0.040	15.88	5	3	2.99	1.9	2.7	27	2 3/8”-4 1/2” REG
27ST IR 4APIV652	○	○	V-0.065	15.88	4	2	2.81	2.3	2.8	27	2 3/8”IF- 5 1/2IF

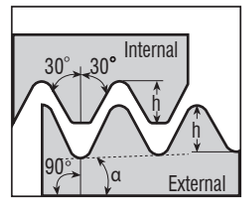


OIL AND GAS INDUSTRY

İç çap / Internal / Innen

V Tip / V Type / V Typ



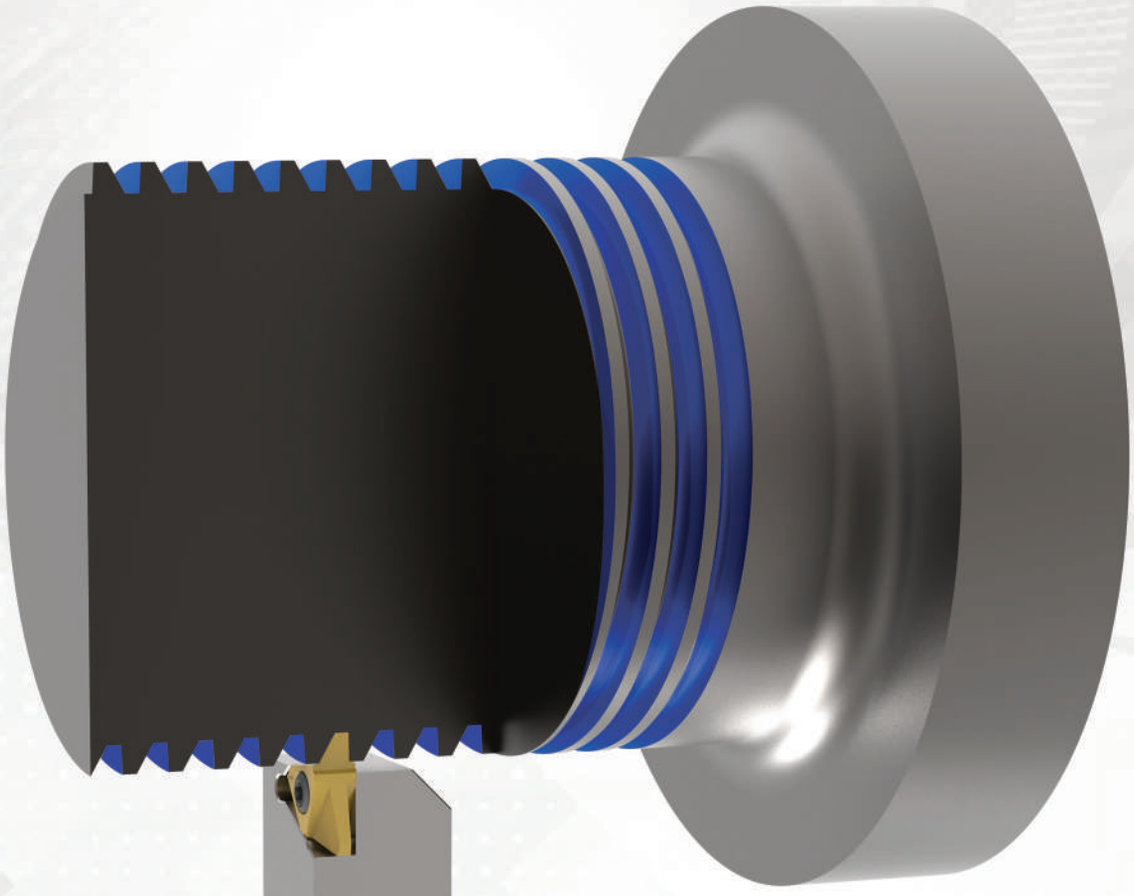


Defined by: API SPEC. 7:1990

Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager* R	L	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* Diş / Thread / *Gewinde*	IC	Adım / Pitch / (TPI) *Wendeplatten Typ*	Koniklik / Taper / Konisch	R	hmin	S	C	X	Y	L	Bağlantı numarası veya boyutu / Connection no. or size
27VT IR 5API403	○	○	V-0.040	15.88	5	3	0.51	3.00	6.38	6.20	23.4	3.9	27	2 3/8”-4 1/2” REG

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück 22ST IR 4APIV382



DİŞ AÇMA ÖZEL ÇÖZÜMLER

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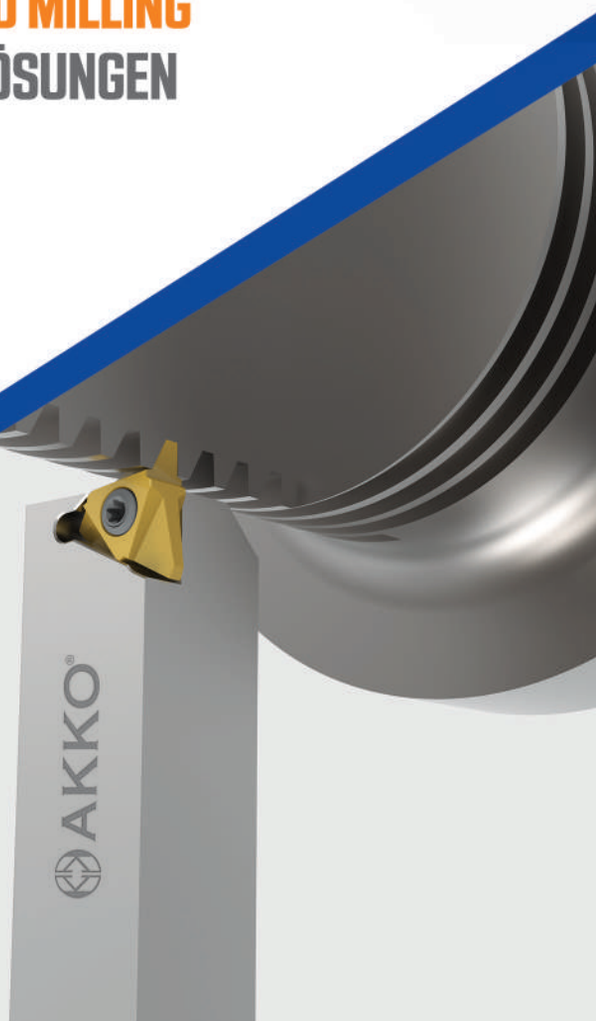

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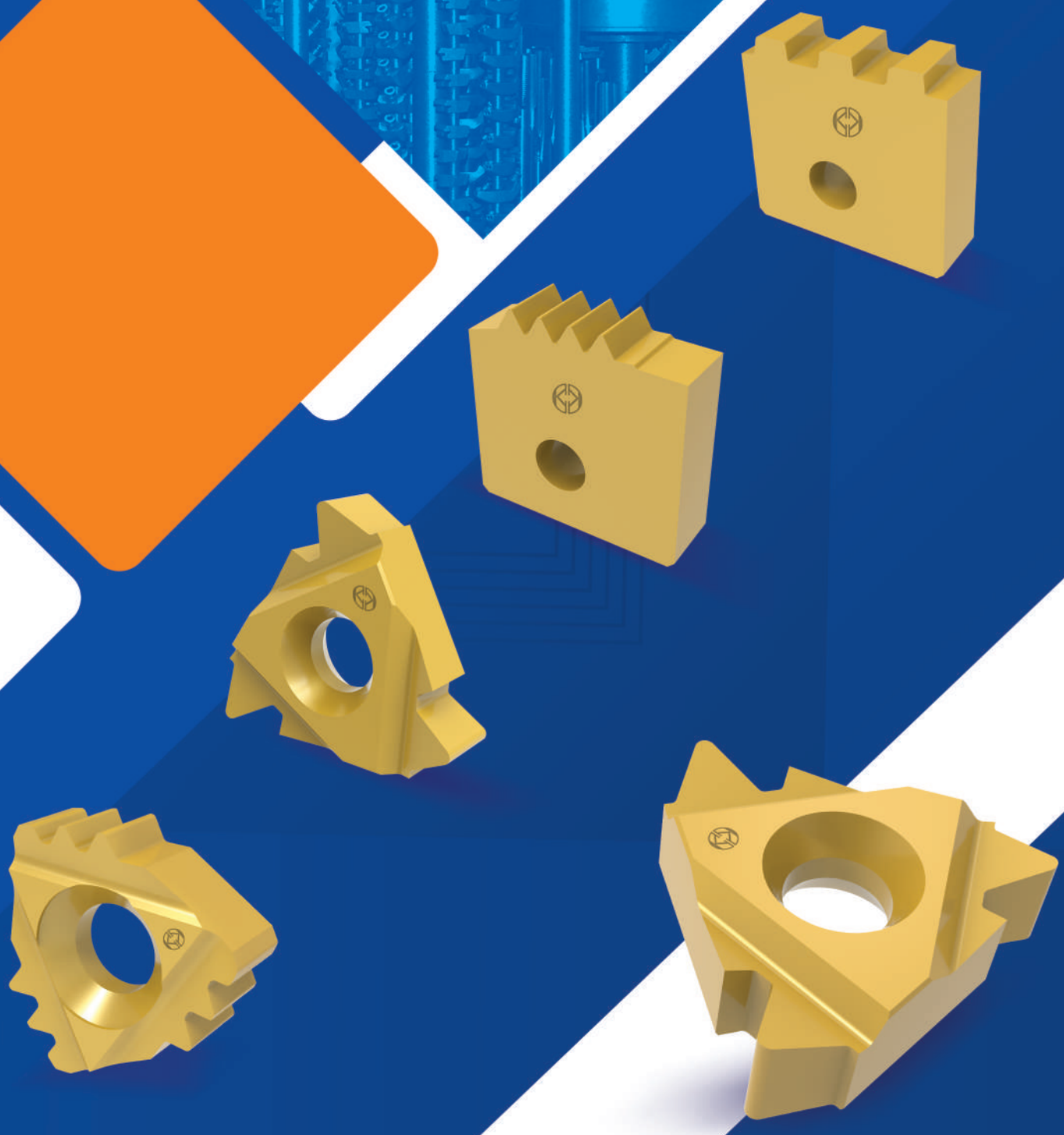

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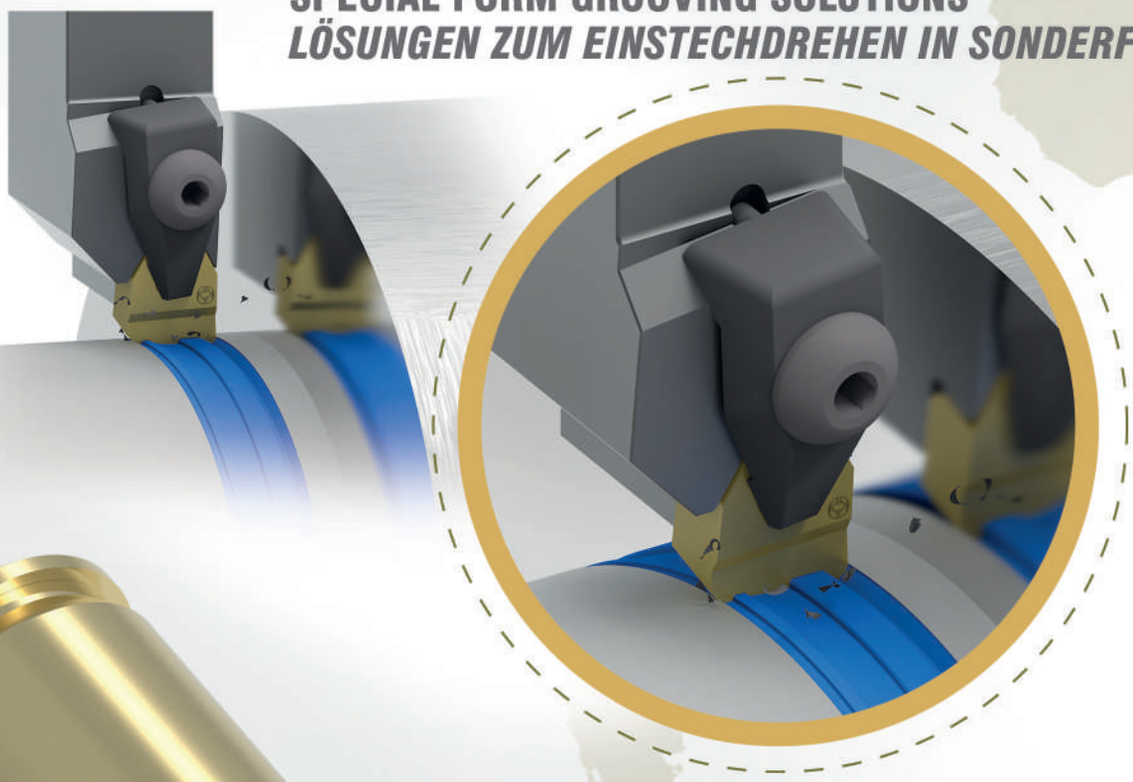
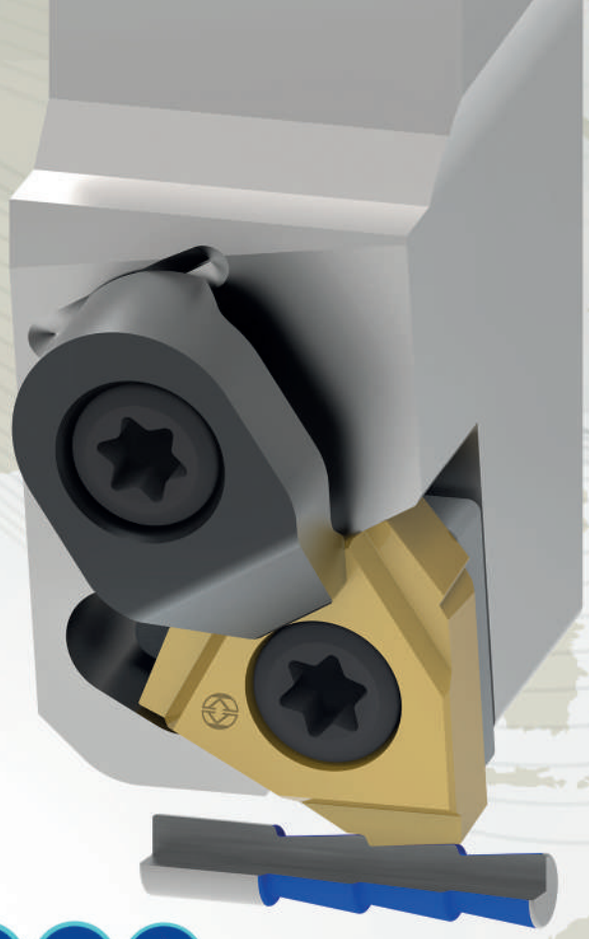
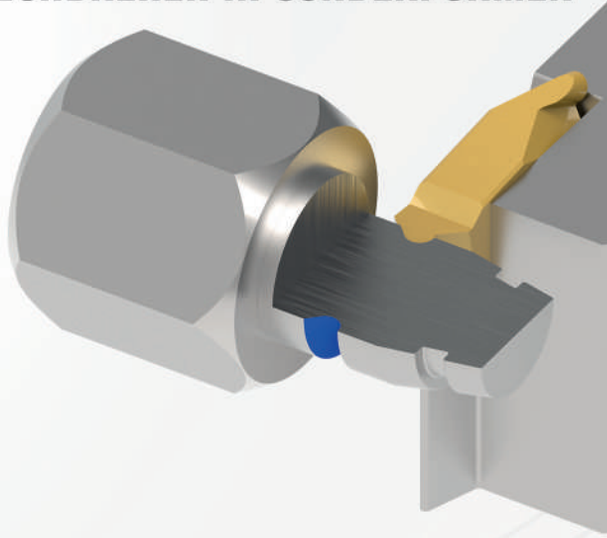
LÖSUNGEN ZUM EINSTECHDREHEN IN SONDERFORMEN

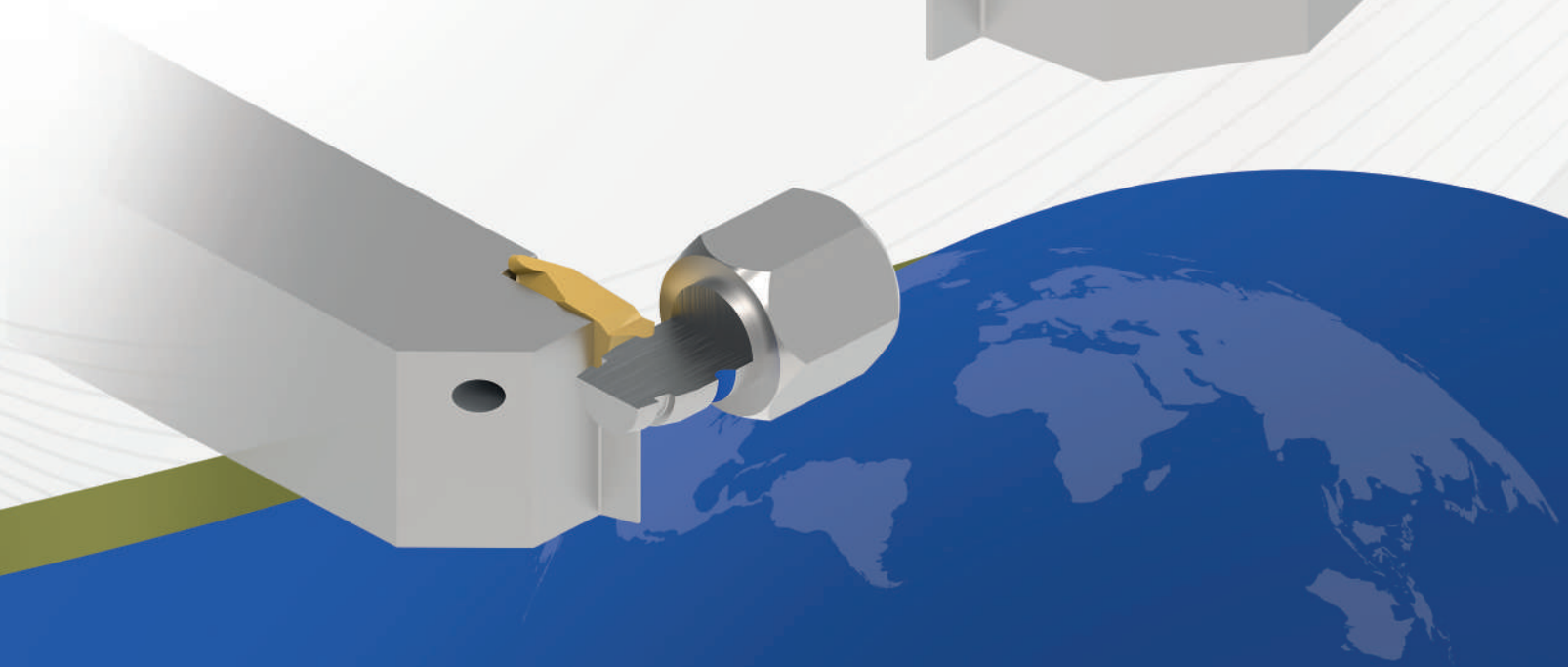


ÖZEL TALAŞLI İMALAT ÇÖZÜMLERİ
SPECIAL MACHINING SOLUTIONS
SONDERLÖSUNGEN FÜR MASCHINEN



ÖZEL FORM KANAL AÇMA ÇÖZÜMÜ
SPECIAL FORM GROOVING SOLUTIONS
LÖSUNGEN ZUM EINSTECHDREHEN IN SONDERFORMEN





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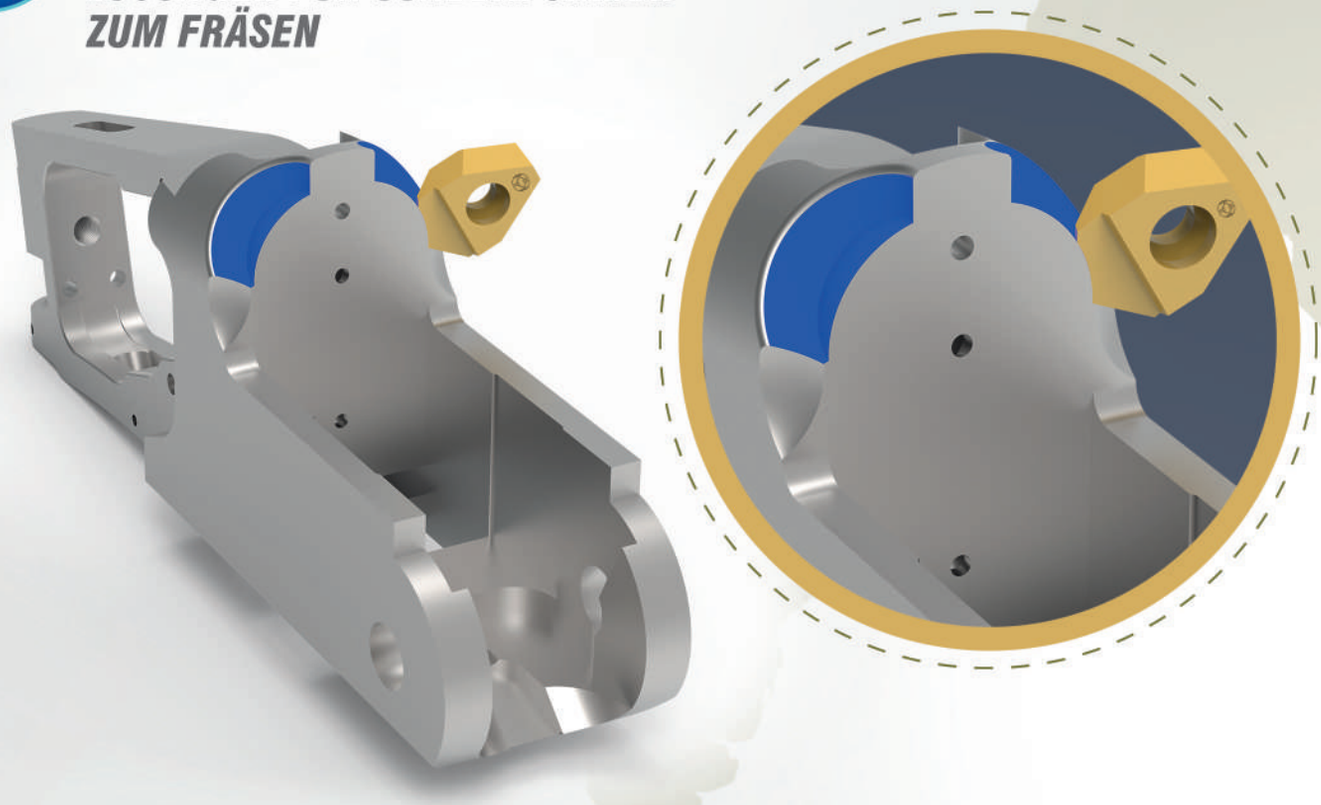
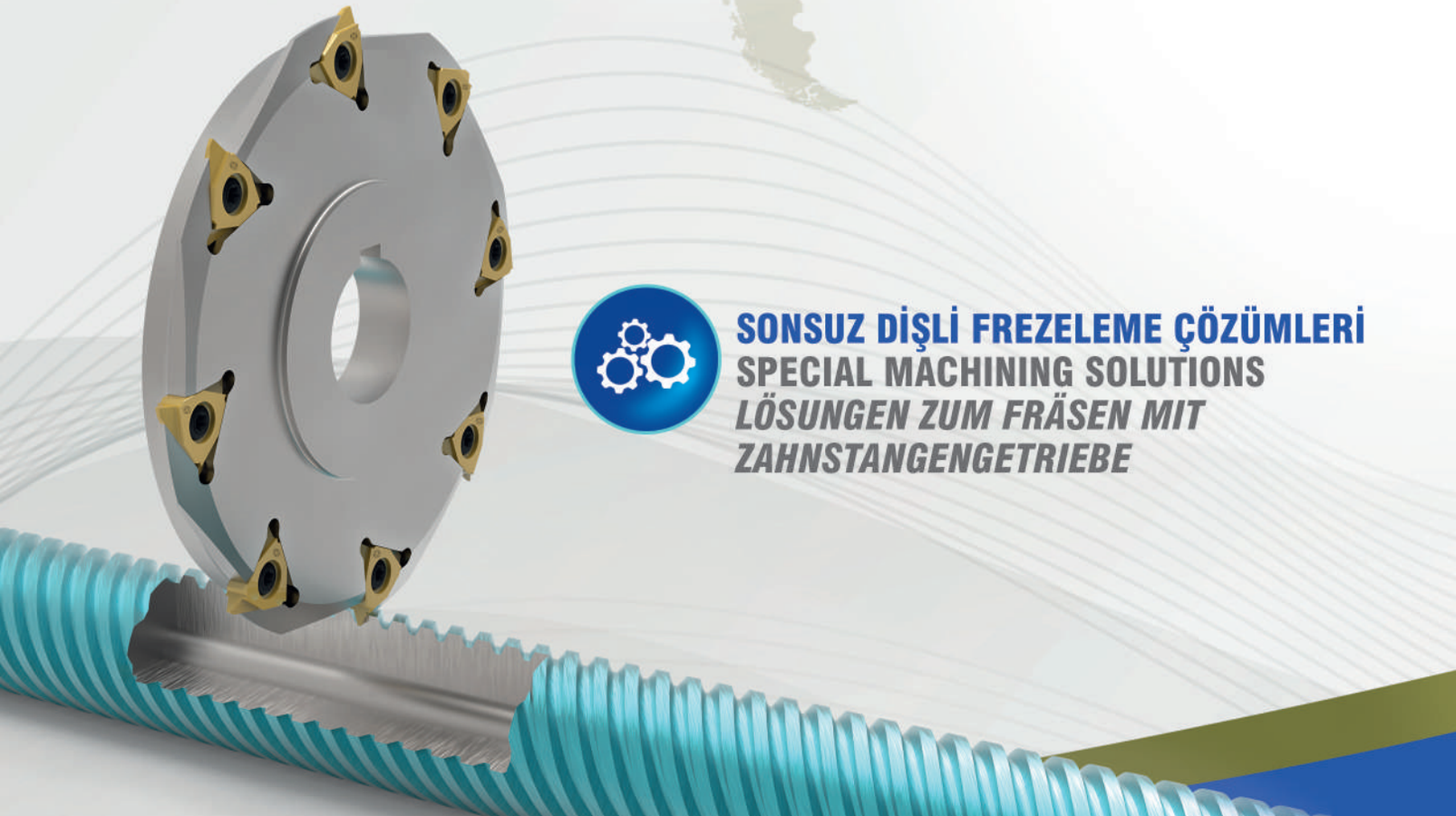
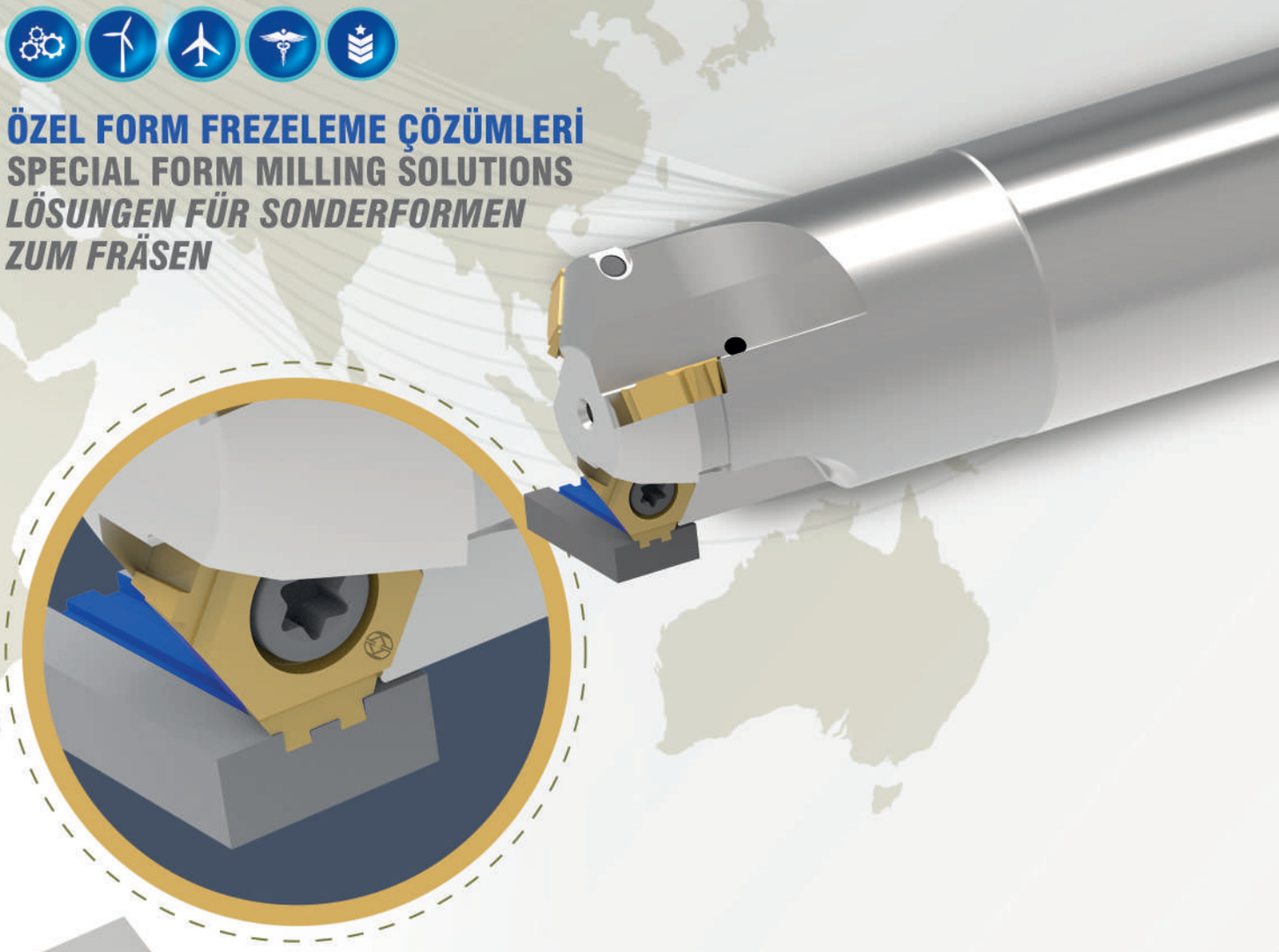
ÖZEL FORM FREZELEME ÇÖZÜMLERİ
SPECIAL FORM MILLING SOLUTIONS
LÖSUNGEN FÜR SONDERFORMEN ZUM FRÄSEN





SONSUZ DİŞLİ FREZELEME ÇÖZÜMLERİ
SPECIAL MACHINING SOLUTIONS
LÖSUNGEN ZUM FRÄSEN MIT ZAHNSTANGENGETRIEBE

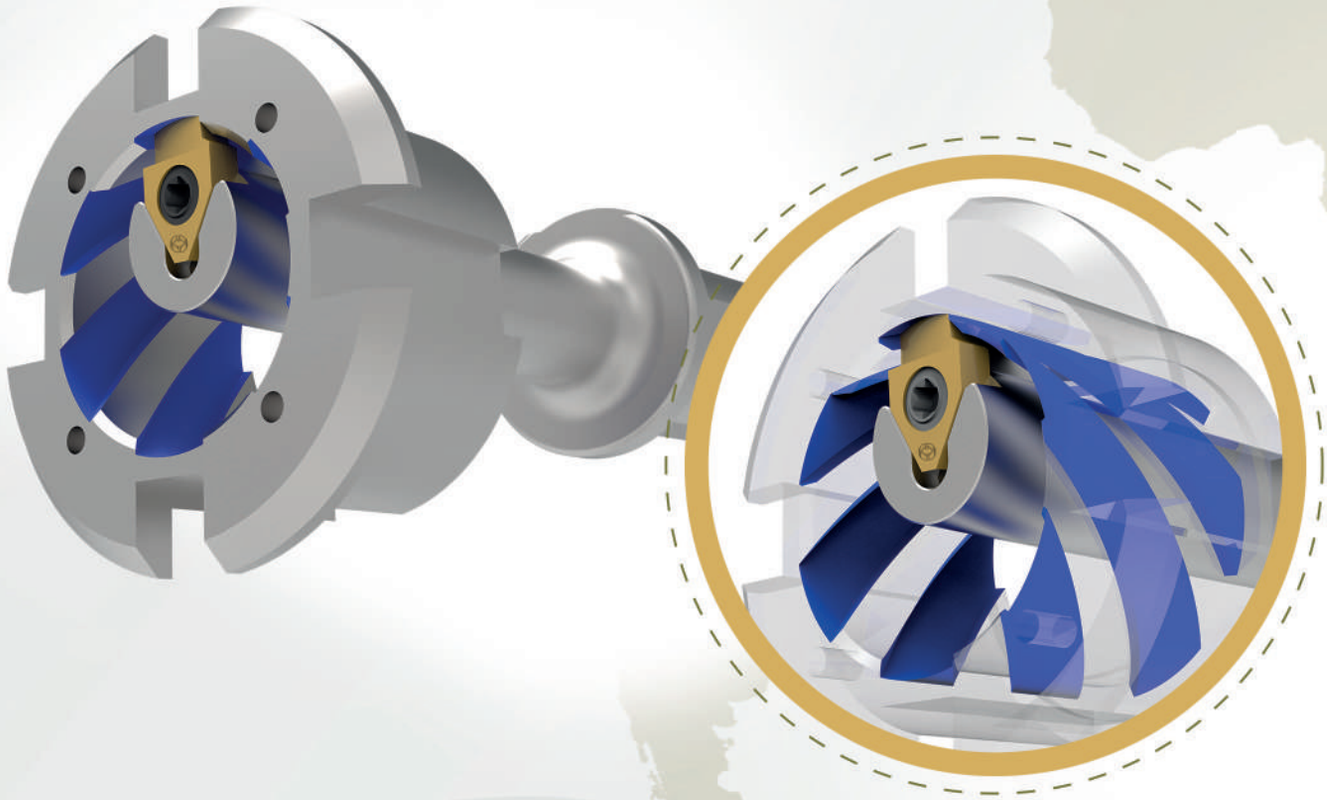
ÖZEL FORM FREZELEME ÇÖZÜMLERİ
SPECIAL FORM MILLING SOLUTIONS
LÖSUNGEN FÜR SONDERFORMEN ZUM FRÄSEN



ÖZEL SUPAP ÇÖZÜMLERİ
SPECIAL VALVE SOLUTIONS
SPEZIELLE VENTILLÖSUNGEN

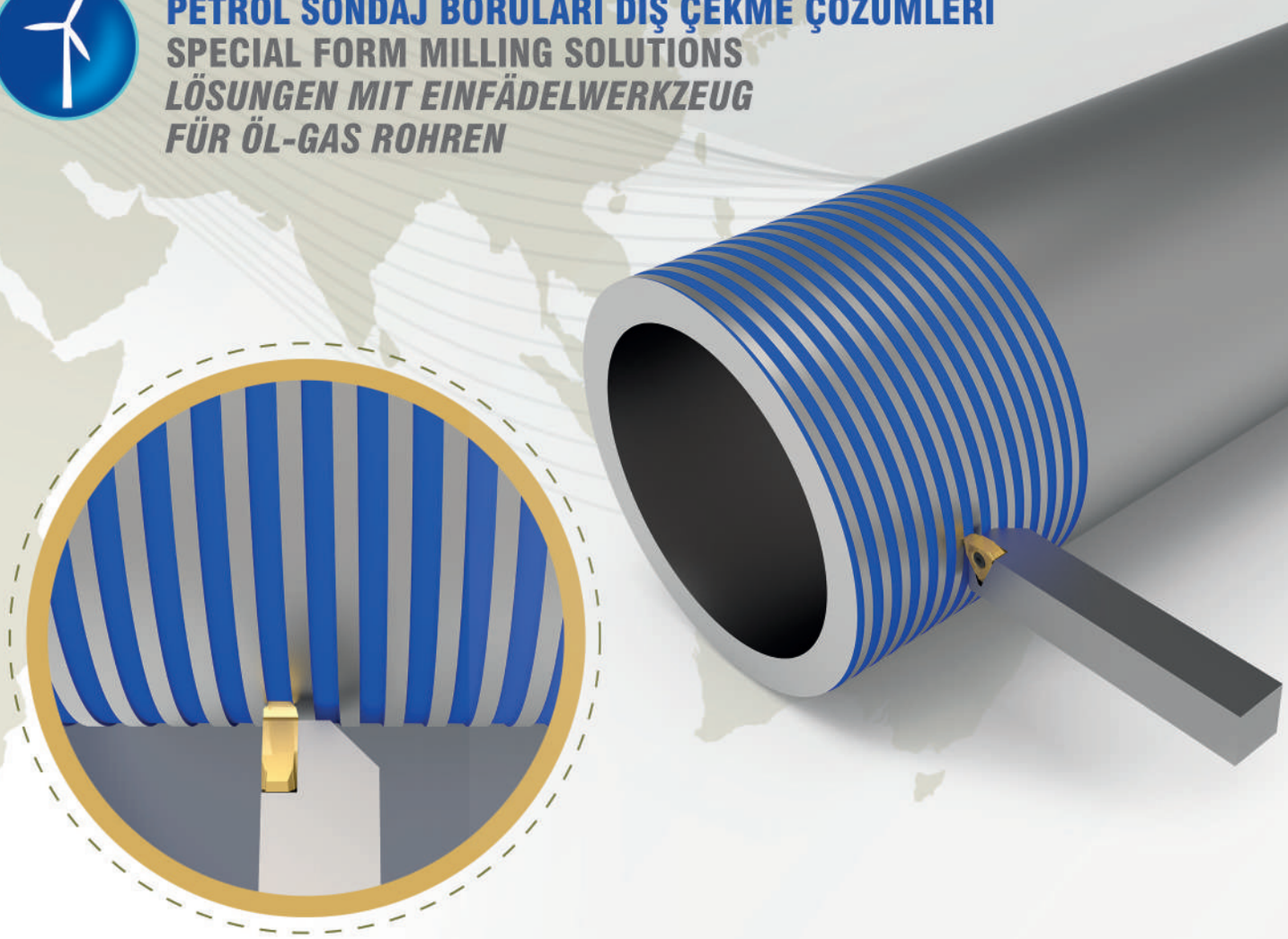
AKKO® Çözümleri SOLUTIONS Lösungen

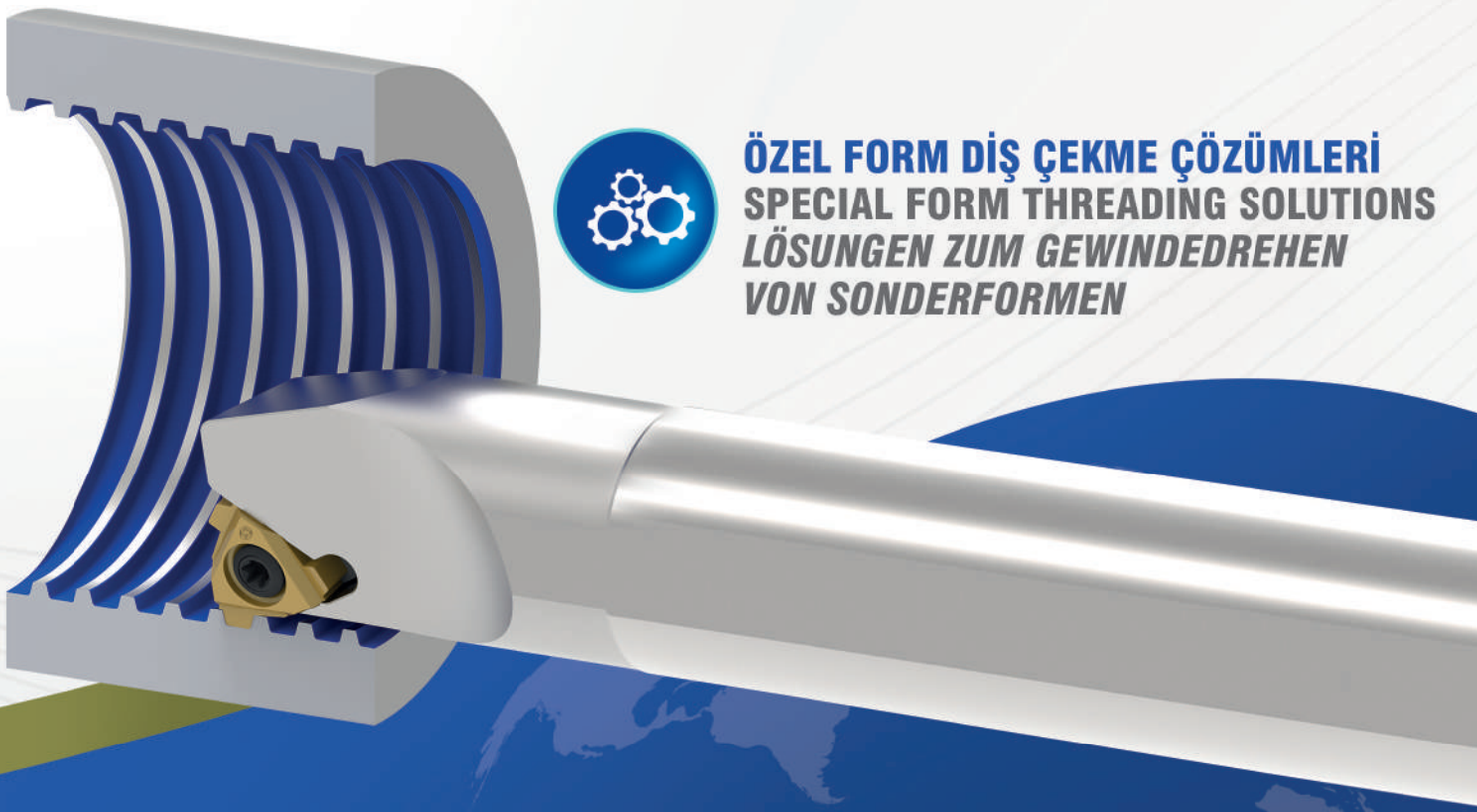
HELİSEL ÖZEL FORM AÇMA ÇÖZÜMLERİ
HELICAL SPECIAL FORMING SOLUTIONS
HELIX SONDERFORMEBEARBEITUNGSLÖSUNGEN



ÖZEL TAKIMLANDIRMA ÇÖZÜMLERİ
SPECIAL MACHINING SOLUTIONS
SONDERLÖSUNGEN FÜR WERKZEUGHALTER

PETROL SONDAJ BORULARI DİŞ ÇEKME ÇÖZÜMLERİ
SPECIAL FORM MILLING SOLUTIONS
LÖSUNGEN MIT EINFÄDELWERKZEUG FÜR ÖL-GAS ROHREN

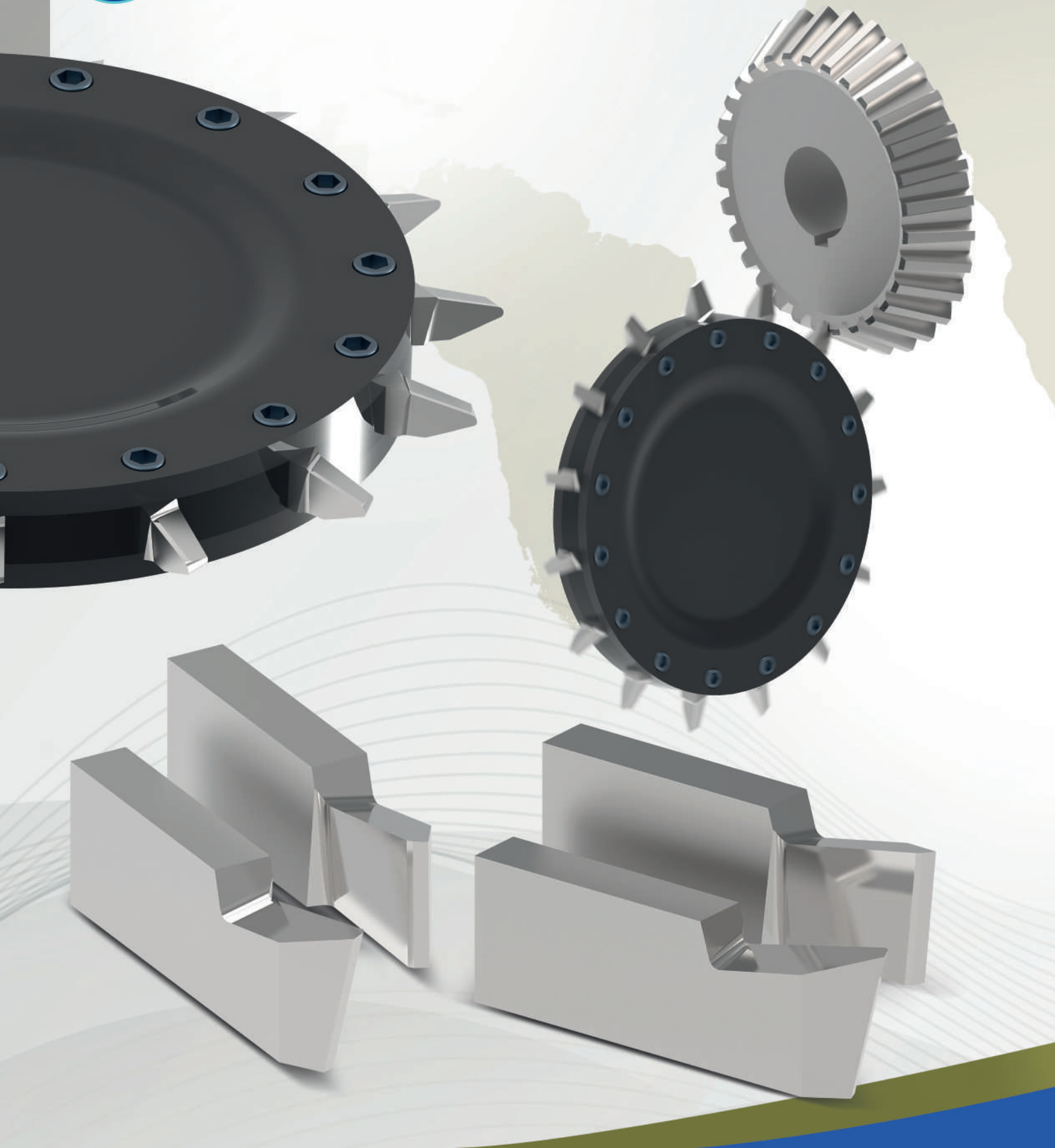




ÖZEL FORM DİŞ ÇEKME ÇÖZÜMLERİ
SPECIAL FORM THREADING SOLUTIONS
LÖSUNGEN ZUM GEWINDEDREHEN VON SONDERFORMEN

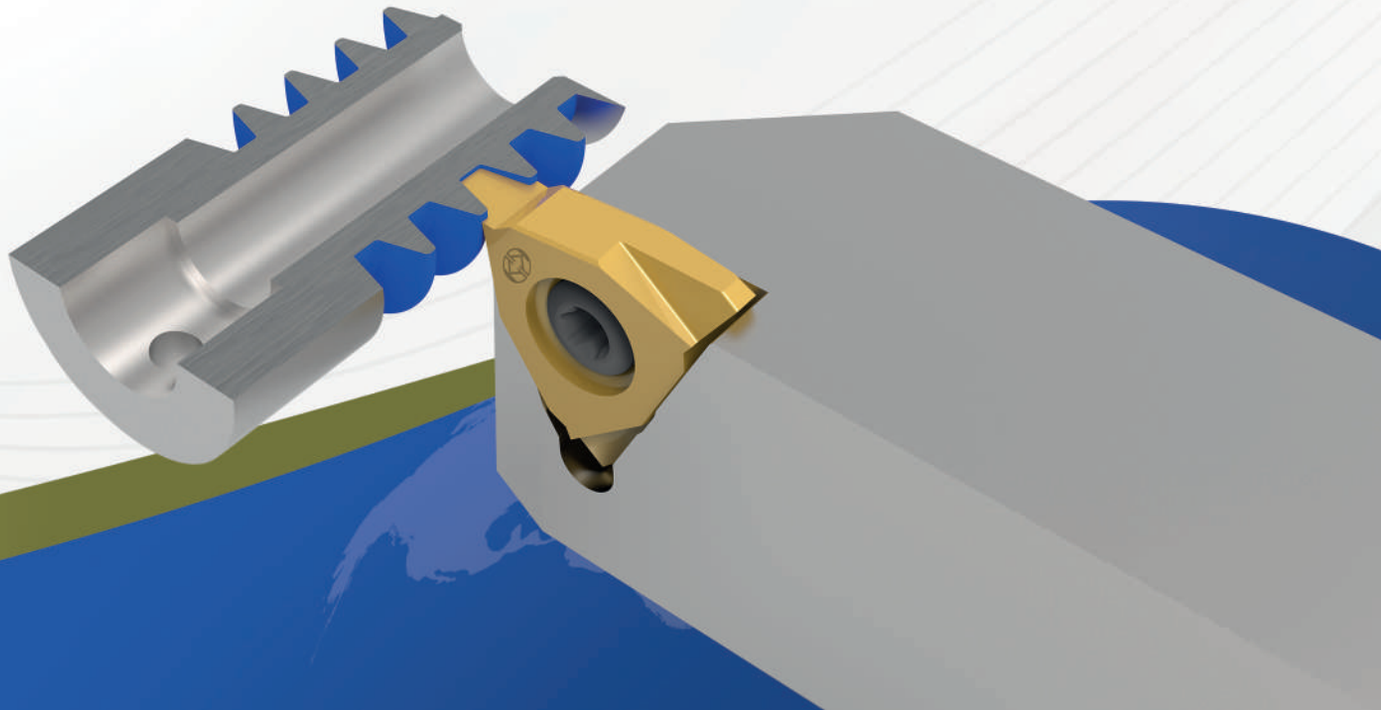
AKKO® Çözümleri SOLUTIONS Lösungen

STICK BLADE – KONVOID BLADE KONİK DİŞLİ AÇMA ÇÖZÜMLERİ
STICK BLADE – CONVAID BLADE BEVEL GEAR SOLUTIONS
LÖSUNGEN FÜR STICK BLADE- KONVOID BLADE MIT KEGELRADGETRIEBE



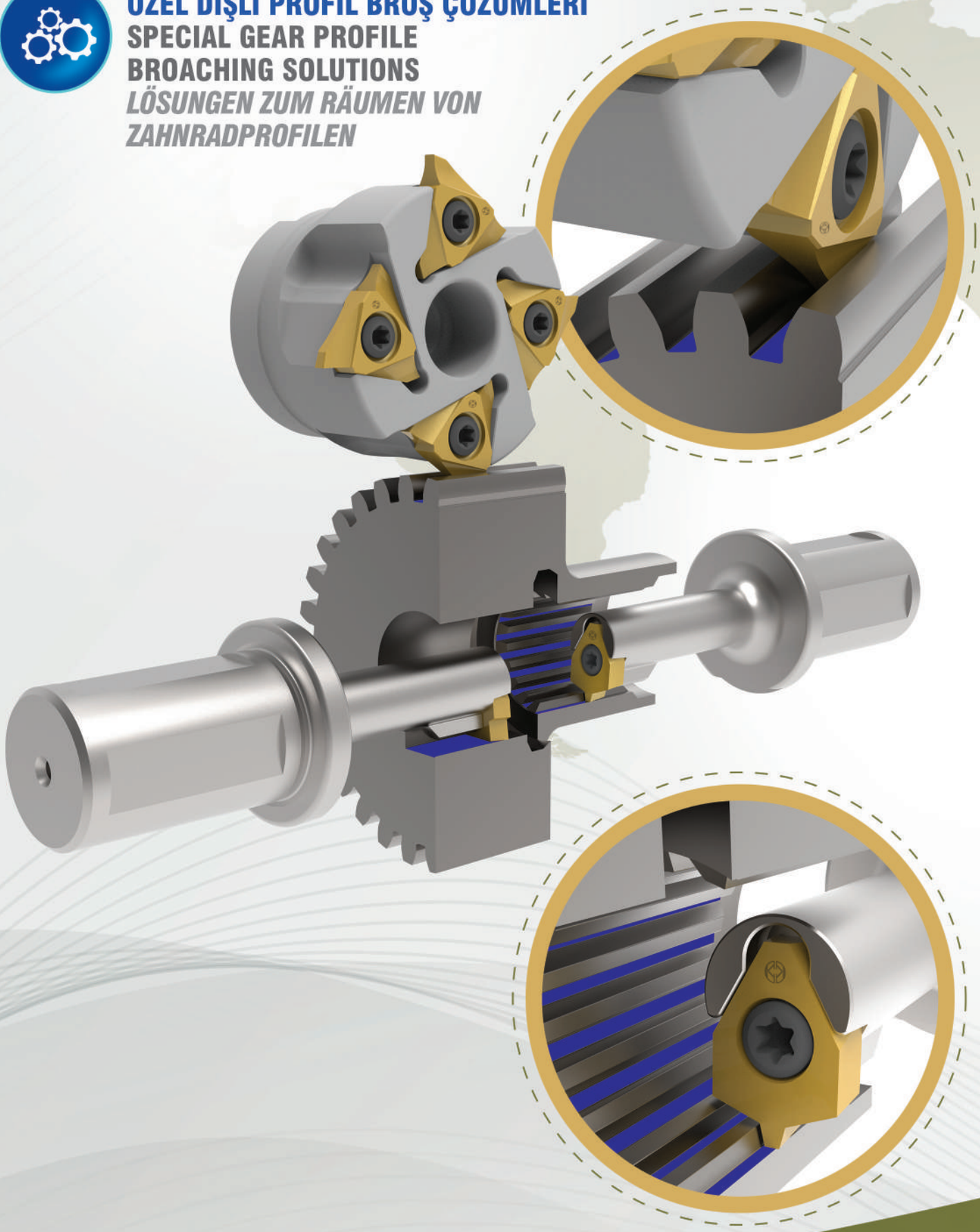
ZİNCİR DİŞLİ BROŞ ÇÖZÜMLERİ
CHAIN SPROCKETS BROACHING SOLUTIONS
LÖSUNGEN MIT KETTENFORM ZUR NUTUNGSBEARBEITUNGEN

SONSUZ DİŞLİ TORNALAMA ÇÖZÜMLERİ
WORM GEAR TURNING SOLUTIONS
DREHLÖSUNGEN MIT ZAHNSTANGENGETRIEBE



AKKO® Çözümleri SOLUTIONS Lösungen

ÖZEL DİŞLİ PROFİL BROŞ ÇÖZÜMLERİ
SPECIAL GEAR PROFILE BROACHING SOLUTIONS
LÖSUNGEN ZUM RÄUMEN VON ZAHNRADPROFILEN



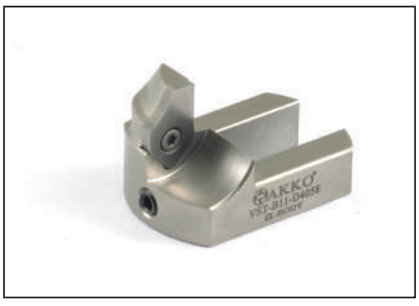
ÖZEL DİŞLİ PROFİL BROŞ ÇÖZÜMLERİ
SPECIAL GEAR PROFILE BROACHING SOLUTIONS
LÖSUNGEN ZUM RÄUMEN VON ZAHNRADPROFILEN

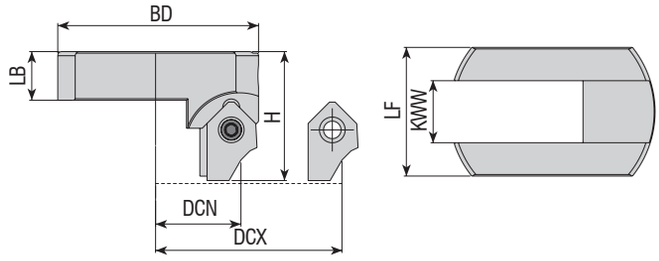
SUPAP

SUPAP YUVASI İŞLEME UÇLARI ve TAKIMLARI

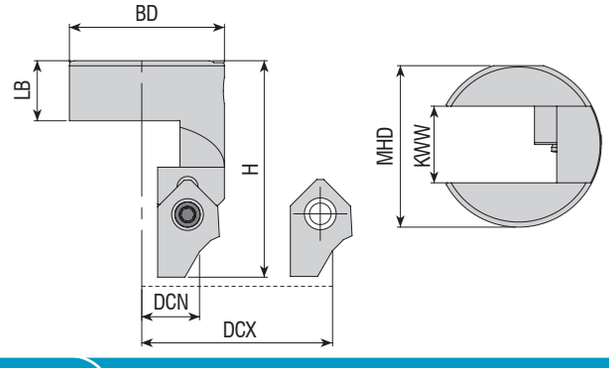
VALVE SEAT INSERTS and TOOLHOLDERS

WENDESCHNEIDPLATTEN und WERKZEUGE FÜR VENTILSITZBEARBEITUNG





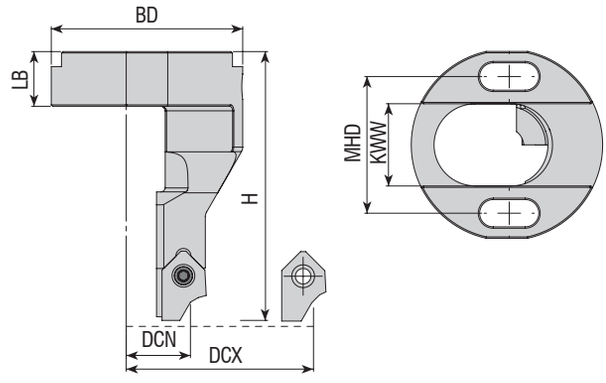
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* DCN DCX	BD	LB	H	KWW	LF	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*: Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*	Ayar Vidası *Adjustable* *Einstellschraube*	Anahtar *Allen Key* *Innensechskantschlüssel*
VST-B11-2842-A	●	28-42	29	9.5	28.5	12	25.0	**B11...**	3008-M3x8	80-T08	2725-M5x10	AAL-01-02
VST-B11-4058-A	●	40-58	39	9.5	25.0	12	25.0					



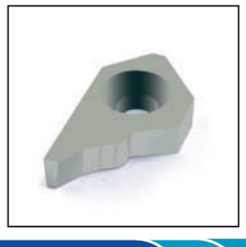
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* DCN DCX	BD	LB	H	KWW	MHD	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile*: Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*	Ayar Vidası *Adjustable* *Einstellschraube*	Anahtar *Allen Key* *Innensechskantschlüssel*
VST-B11-1830-A	●	18-30	24	9.5	34.0	12	25.3	**B11…**	3008-M3x8	80-T08	2702-M4x10	AAL-01-02

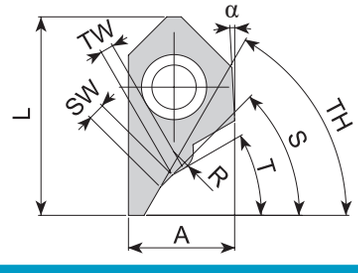
R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück VST-B11-2842



Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* DCN DCX	BD	LB	H	KWW	MHD	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*	Ayar Vidası *Adjustable* *Einstellschraube*	Anahtar *Allen Key* *Innensechskantschlüssel*
VST-B11-2032-A	●	20-32	42	12	59	18	30	**B11…**	3008-M3x8	80-T08	2702-M4x10	AAL-01-02
VST-B11-2434-A	●	24-34	26	14	40	11	18.1					
VST-B11-2956-A	●	26-56	49	11.7	43.7	18	40					

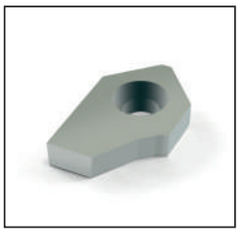


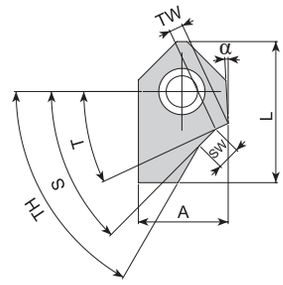


Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)* S°	SW	T°	TW	TH°	A	L	α	R
B11013	●	45°	1.3	30°	1	60°	8.15	15.10	3°	1.50

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

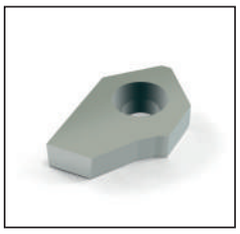
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück VST-B11-2032

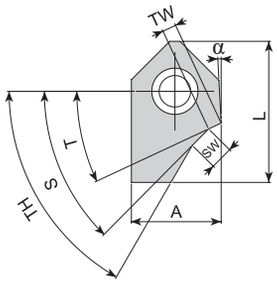




Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*							
		S°	SW	T°	TW	TH°	A	L	α
B11003	●	45°	1.3	25°	1.1	52°	9.7	15.25	3°
B11004	●	45°	1.6	25°	1.3	52°	9.7	15.25	3°
B11005	●	45°	2	25°	1.3	52°	9.7	15.25	3°
B11006	●	45°	2.5	25°	1.5	52°	9.7	15.25	3°
B11007	●	45°	1.5	30°	1.5	60°	9.7	15.25	3°
B11008	●	45°	1.3	25°	1.1	60°	9.7	15.25	3°
B11009	●	45°	1.6	25°	1.3	60°	9.7	15.25	3°
B11010	●	45°	2	25°	1.3	60°	9.7	15.25	3°
B11011	●	30°	2	15°	1.8	60°	9.7	15.25	3°
B11012	●	36°	2	15°	1.6	60°	9.7	15.25	3°
B11014	●	45°	2.5	25°	1.5	60°	9.7	15.25	3°
B11016	●	30°	1.5	15°	1.3	60°	9.7	15.25	3°
B11017	●	30°	2.5	15°	1.8	60°	9.7	15.25	3°
B11018	●	36°	2.5	15°	1.6	60°	9.7	15.25	3°
B11019	●	20°	2.5	10°	2	75°	9.7	15.25	3°
B11020	●	45°	1.3	25°	1.1	52°	7.7	15.25	3°
B11021	●	30°	3	15°	1.8	60°	9.7	15.25	3°
B11022	●	45°	3	30°	1.8	60°	9.7	15.25	3°
B11029	●	40°	2.5	25°	1.5	60°	9.7	15.25	3°
B11030	●	20°	2	10°	1.3	60°	9.7	15.25	3°
B11031	●	45°	1.8	30°	1.3	60°	9.7	15.25	3°
B11032	●	45°	1.5	30°	1	52°	9.7	15.25	3°
B11033	●	45°	2	30°	1.1	52°	9.7	15.25	3°
B11034	●	45°	2.5	30°	1.3	52°	9.7	15.25	3°
B11035	●	30°	1.5	15°	1	45°	9.7	15.25	3°
B11036	●	30°	2	15°	1.1	45°	9.7	15.25	3°
B11037	●	30°	2.5	15°	1.3	45°	9.7	15.25	3°
B11038	●	25°	2	15°	2	45°	9.7	15.25	3°
B11039	●	30°	2	15°	1.4	60°	9.7	15.25	3°
B11040	●	40°	2	15°	2	60°	9.7	15.25	3°
B11042	●	45°	1	30°	1.2	60°	9.7	15.25	3°
B11043	●	45°	1	35°	1.6	52°	9.7	15.25	3°
B11044	●	45°	1.3	30°	1	60°	9.7	15.25	3°
B11045	●	45°	1.5	30°	1	60°	9.7	15.25	3°
B11046	●	45°	1.8	30°	1	60°	9.7	15.25	3°
B11047	●	45°	1.8	30°	1.6	60°	9.7	15.25	3°
B11048	●	45°	1	25°	1.4	60°	9.7	15.25	3°
B11049	●	45°	1.50	25°	1.4	60°	9.7	15.25	3°
B11050	●	45°	2	25°	1.4	60°	9.7	15.25	3°

Sipariş Örneği/Ordering Example/*Bestellbeispiel* 1 ad./pcs./stück B11003

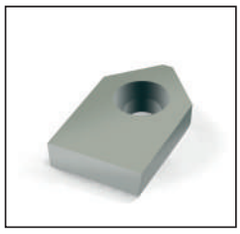


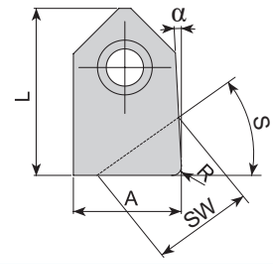


Uç Kodu *Insert Code* Wendeplatten-Bezeichnung	Stok *Stock* Lager	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*							
		S°	SW	T°	TW	TH°	A	L	α
B11051	●	45°	3	25°	1.4	60°	9.7	15.25	3°
B11052	●	30°	1.5	15°	1.4	60°	9.7	15.25	3°
B11053	●	30°	2.5	15°	1.8	60°	9.7	15.25	3°
B11054	●	45°	1	15°	1	60°	9.7	15.25	3°
B11055	●	45°	1.5	30°	1.8	60°	9.7	15.25	3°
B11056	●	45°	2	30°	1.2	60°	9.7	15.25	3°
B11058	●	35°	2	15°	1.6	60°	9.7	15.25	3°
B11061	●	45°	1	25°	1.0	60°	7.7	15.25	3°
B11062	●	30°	1.3	15°	1.0	52°	7.7	15.25	3°
B11063	●	38°	2.5	15°	1.60	60°	9.7	15.25	3°
B11064	●	30°	2	15°	1.40	60°	9.7	15.25	3°
B11065	●	45°	1	25°	0.8	52°	7.7	15.25	3°
B11066	●	20°	3	10°	2.0	75°	9.7	15.25	3°
B11069	●	30°	3	15°	1.8	45°	9.7	15.25	3°
B11070	●	45°	1.2	32°	1	60°	8.15	15.10	3°
B11071	●	45°	1	32°	1	60°	8.15	15.10	3°
B11074	●	45°	1.5	30°	1.4	60°	9.7	15.25	3°
B11075	●	45°	2	15°	1	60°	9.7	15.25	3°
B11076	●	30°	1.90	15°	1	45°	9.7	15.25	3°
B11077	●	30°	2.5	15°	1.4	60°	9.7	15.25	3°
B11078	●	45°	1.6	30°	1.4	60°	9.7	15.25	3°
B11079	●	30°	1.3	15°	2.0	45°	9.7	15.25	3°
B11080	●	30°	1.8	15°	2.0	45°	9.7	15.25	3°
B11081	●	30°	3.0	15°	2.0	45°	9.7	15.25	3°
B11082	●	45°	1.0	30°	2.0	60°	9.7	15.25	3°
B11083	●	45°	1.1	30°	2.0	60°	9.7	15.25	3°
B11084	●	45°	1.2	30°	2.0	60°	9.7	15.25	3°
B11085	●	45°	1.3	30°	2.0	60°	9.7	15.25	3°
B11086	●	45°	1.6	30°	2.0	60°	9.7	15.25	3°
B11087	●	45°	2.0	30°	2.0	60°	9.7	15.25	3°
B11088	●	45°	2.5	30°	2.0	60°	9.7	15.25	3°
B11089	●	35°	2.0	15°	1.5	70°	9.7	15.25	3°
B11090	●	35°	2.5	15°	2.5	70°	9.7	15.25	3°
B11091	●	25°	2.5	15°	2.0	45°	9.7	15.25	3°
new B11096	●	45°	1.0	25°	1.8	60°	9.7	15.25	3°
new B11095	●	45°	1.5	25°	1.1	52°	7.7	15.25	3°

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock /*Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück B11051

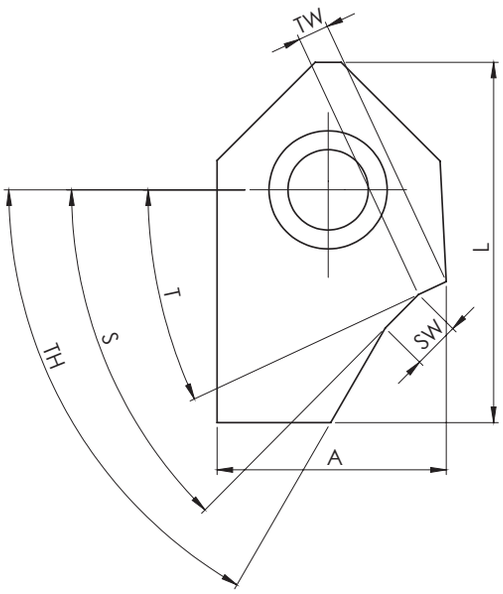




Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*					
		S°	SW	A	L	α	R
B11015	●	0°	9.85	9.85	15.10	3°	0.80
B11023	●	0°	7.7	7.7	15.10	3°	0.80
B11024	●	20°	8.2	9.75	15.10	3°	-
B11025	●	25°	10	9.65	15.10	3°	-
B11026	●	30°	9	9.65	15.10	3°	-
B11027	●	35°	10	9.6	15.10	3°	-
B11028	●	45°	8.9	9.55	15.10	3°	-
B11057	●	0°	9.6	9.7	14.8	1°	0.2
B11067	●	0°	9.9	9.7	15.10	3°	0.2
B11073	●	36°	10	9.7	15.10	3°	-
B11092	●	15°	8.2	9.5	15.10	3°	-
B11093	●	60°	8.4	9.5	15.10	3°	-
new **B11094**	●	0°	9.6	9.6	12.0	4°	0.80

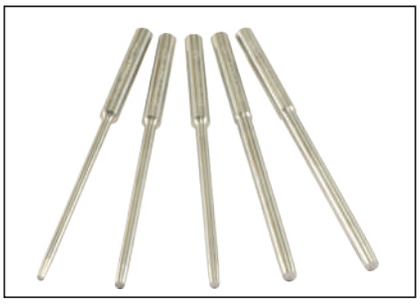
R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

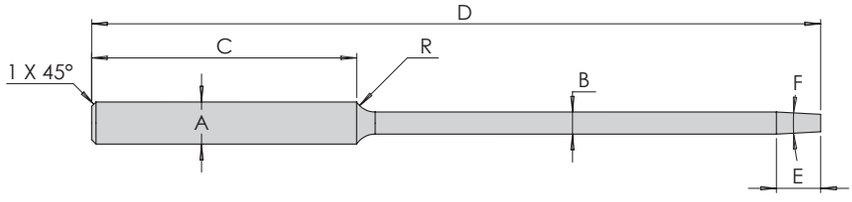
Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück B11015



SUPAP UCU BİLGİ ALMA FORMU
INFORMATION REQUEST FORM FOR VALVE SEAT INSERTS
INFORMATIONSFORMULAR FÜR VENTILSITZE

TW :	
L :	
SW :	
A :	
T° :	
S° :	
TH° :	
İLETİŞİM İÇİN: **CONTACT:** **KONTAKT:**	





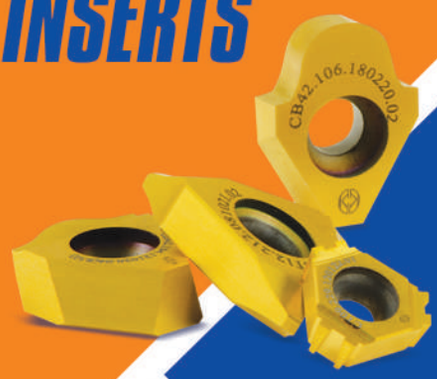
Uç Kodu *Insert Code* *Wendeplatten-Bezeichnung*	Stok *Stock* *Lager*	Uç Ölçüleri (mm) *Insert Dimension (mm)* *Abmessung (mm)*						
		Ø B (h7)	C	R	D	Ø A (h6)	E	F
ACPM-0497-165	●	4.97	60	5	165	9.525	10	6°
ACPM-0498-165	●	4.98	60	5	165	9.525	10	6°
ACPM-0499-165	●	4.99	60	5	165	9.525	10	6°
ACPM-0500-165	●	5.00	60	5	165	9.525	10	6°
ACPM-0549-165	●	5.49	60	5	165	9.525	10	6°
ACPM-0550-165	●	5.50	60	5	165	9.525	10	6°
ACPM-0597-165	●	5.97	60	5	165	9.525	10	6°
ACPM-0598-165	●	5.98	60	5	165	9.525	10	6°
ACPM-0599-165	●	5.99	60	5	165	9.525	10	6°
ACPM-0600-165	●	6.00	60	5	165	9.525	10	6°
ACPM-0605-165	●	6.05	60	5	165	9.525	10	6°
ACPM-0606-165	●	6.06	60	5	165	9.525	10	6°
ACPM-0659-165	●	6.59	60	5	165	9.525	10	6°
ACPM-0660-165	●	6.60	60	5	165	9.525	10	6°
ACPM-0697-165	●	6.97	60	5	165	9.525	10	6°
ACPM-0698-165	●	6.98	60	5	165	9.525	10	6°
ACPM-0699-165	●	6.99	60	5	165	9.525	10	6°
ACPM-0700-165	●	7.00	60	5	165	9.525	10	6°
ACPM-0797-165	●	7.97	60	5	165	9.525	10	6°
ACPM-0798-165	●	7.98	60	5	165	9.525	10	6°
ACPM-0799-165	●	7.99	60	5	165	9.525	10	6°
ACPM-0800-165	●	8.00	60	5	165	9.525	10	6°
ACPM-0801-165	●	8.01	60	5	165	9.525	10	6°
ACPM-0802-165	●	8.02	60	5	165	9.525	10	6°
ACPM-0803-165	●	8.03	60	5	165	9.525	10	6°
ACPM-0824-165	●	8.24	60	5	165	9.525	10	6°
ACPM-0825-165	●	8.25	60	5	165	9.525	10	6°
ACPM-0849-165	●	8.49	60	5	165	9.525	10	6°
ACPM-0850-165	●	8.50	60	5	165	9.525	10	6°
ACPM-0897-165	●	8.97	60	5	165	9.525	10	6°
ACPM-0898-165	●	8.98	60	5	165	9.525	10	6°
ACPM-0899-165	●	8.99	60	5	165	9.525	10	6°
ACPM-0900-165	●	9.00	60	5	165	9.525	10	6°

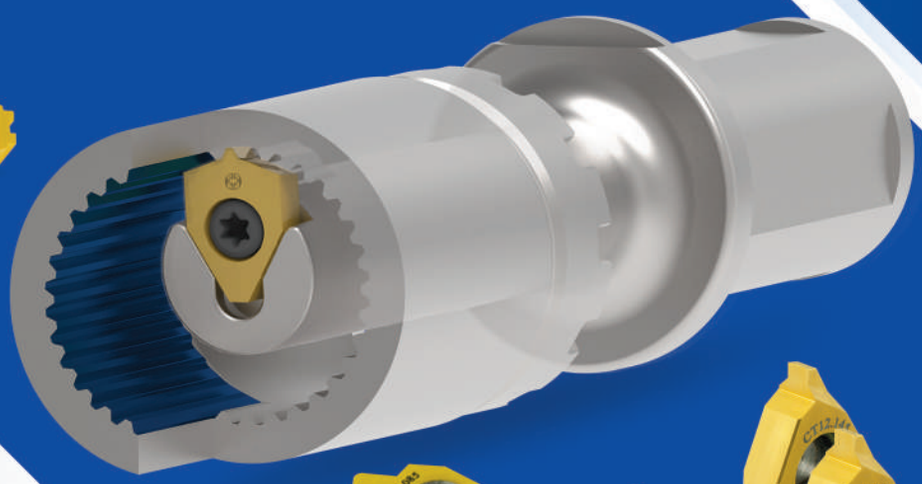
R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ACPM-0497-165

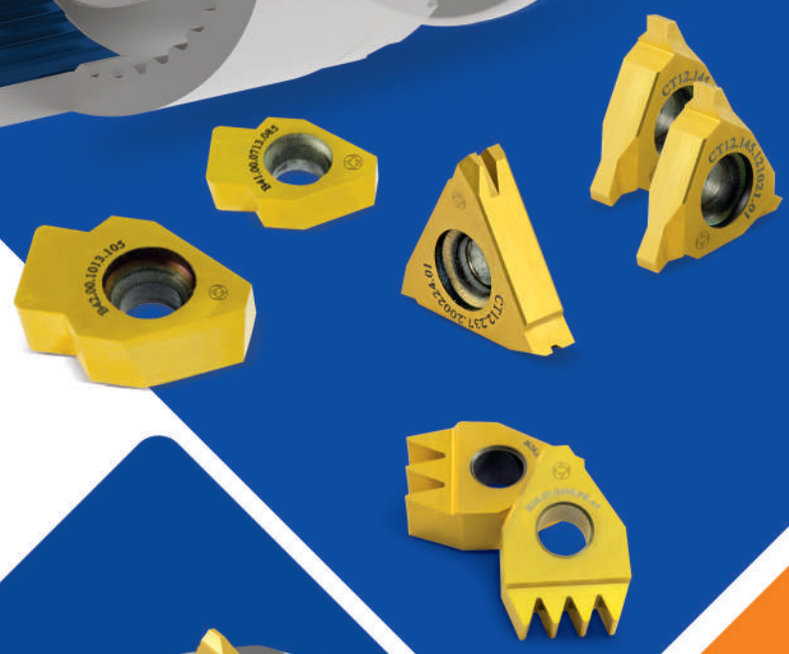
ÖZEL PROFİL KESİCİ UÇLAR

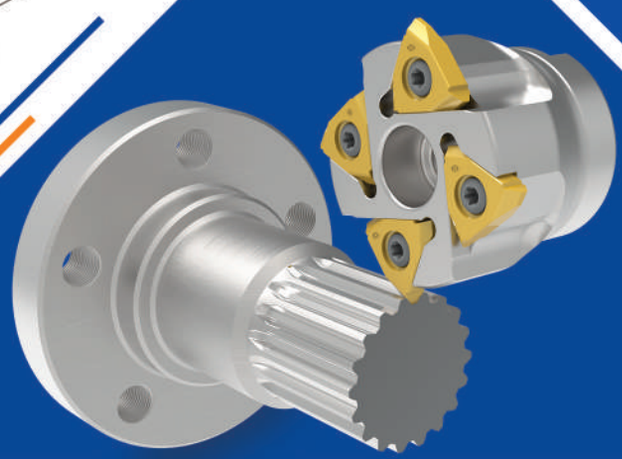
SPECIAL CUTTING INSERTS





konuşulan
the spoken kalite...
quality...





U-DRILL

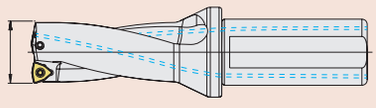
TAKMA UÇLU MATKAPLAR
U-DRILL SYSTEM
VOLLBOHRER

AKKO A	TUM	16	x	D3
1	2	3		4

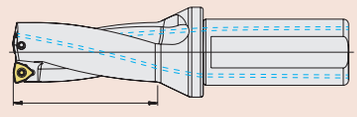
S	P	G	T	06	02	04
5	6	7	8	9	10	11

2 Kesici Stili / *Cutter Style* *Werkzeugtyp*

3 Takım Çapı / *Tool Diameter* / *Werkzeugdurchmesser*



4 Delme Derinliği / *Drilling Depth* / *Bohrtiefe*



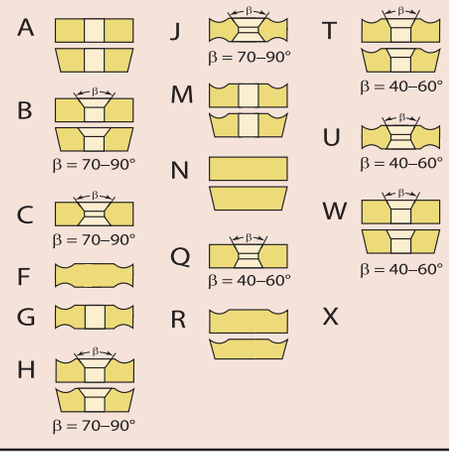
5 Uç Şekli / *Insert Form* *Plattenform*

W	S

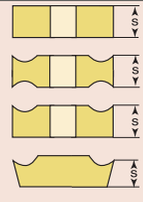
6 Serbest Uç Açısı / *Clearance angle of Insert* *Freiwinkel der Wendeschneidplatte*

C	P

8 Uç Tipi / *Insert Type* *Plattentyp*

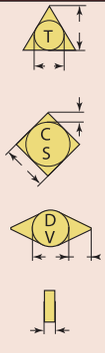


10 Kalınlık / *Thickness* *Dicke*



01	s = 1.59
T1	s = 1.98
02	s = 2.38
T2	s = 2.78
03	s = 3.18
T3	s = 3.97
04	s = 4.76
05	s = 5.56
06	s = 6.35
07	s = 7.94
09	s = 9.52

7 Toleranslar / *Tolerance Classes* / *Toleranzen*

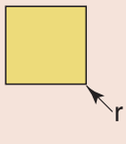


A	± 0.025	± 0.005	± 0.025
C	± 0.025	± 0.013	± 0.025
E	± 0.025	± 0.025	± 0.025
F	± 0.013	± 0.005	± 0.025
G	± 0.025	± 0.025	± 0.130
H	± 0.013	± 0.013	± 0.025
J	± 0.05–0.1 5	± 0.005	± 0.025
K	± 0.05–0.1 5	± 0.013	± 0.025
L	± 0.05–0.1 5	± 0.025	± 0.025
M	± 0.05–0.1 5	± 0.08–0.20	± 0.130
N	± 0.05–0.1 5	± 0.08–0.20	± 0.025
U	± 0.08–0.2 5	± 0.13 –0.38	± 0.130

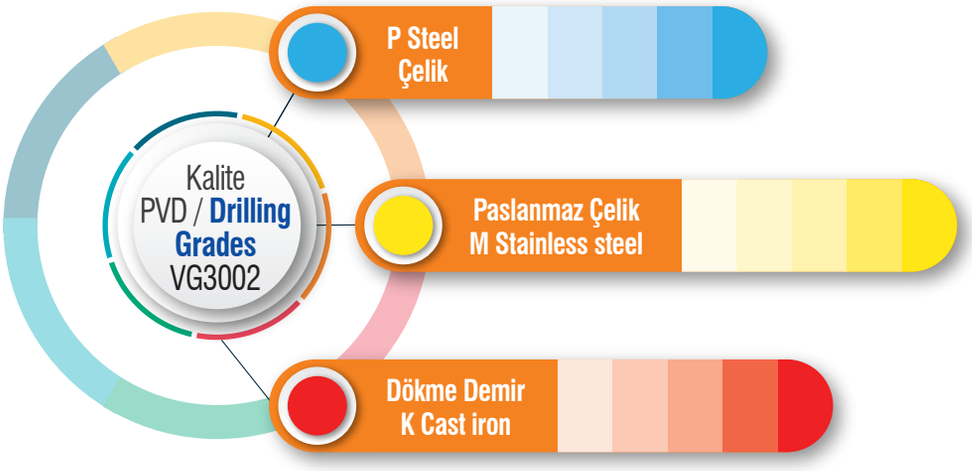
IC : Daire Ölçüsü / Inscribed Circle /*Kreisgröße*
M : Şekle Göre / Refer to Figure / *Siehe Abbildung*
S : Kalınlık / Thickness /Dicke

9 Kesme Kenar Uzunluğu / *Cutting Edge Length* *Schneidkantenlänge*

11 Köşe Konfigürasyonu / *Corner Radius* *Eckenradius*



01	r = 0. 1
02	r = 0. 2
04	r = 0. 4
08	r = 0. 8
12	r = 1. 2
16	r = 1. 6
24	r = 2. 4

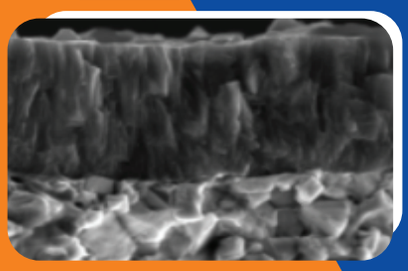


4 Köşeli / 4 Corner
SPMX Serileri / Series
00, 01, 02, 03, 04, 05

ISO 3 Köşeli / ISO 3 Corner
WCMX Serileri / Series
00, 01, 02, 03, 04, 05

Kalite Bilgileri / Grade Information

PVD - TiAlN



Genel delme uygulaması için evrensel kalite
- Optimum termal direnç ve güce sahip Ultra Yoğun PVD Kaplama
- Zorlu uygulama için tasarlanmış alt Mikron tabaka

Universal grade for general drilling application
- Ultra Dense PVD Coating with optimal thermal resistance & strength
- Sub-Micron substrate designed for demanding application

METRİK / METRIC			DELME / DRILLING	
			Vc (m/min) VG3002	
ISO	ALT GRUP / SUB GROUP		MIN	MAX
P	Alaşımsız Celik	Non Alloy Steel	180	280
	Düşük Alaşımlı Çelik	Low Alloy Steel	150	250
	Yüksek Alaşımlı Çelik	High Alloy Steel	70	140
M	Ferritik Ve Martenzitik	Ferritic & Martensitic	120	200
	Östenitik Paslanmaz Çelik	Austenitic Stainless Steel	130	250
K	Gri Dökme Demir	Grey Cast Iron	120	250
	Sferö Döküm Demir	Nodular Cast Iron	130	220
N	Alüminyum	Aluminum	-	-
S	Titanyum Ve Süper Alaşım	Titanium & Super Alloy	25	45
H	Sertleştirilmiş Malzeme	Hardened Material	-	-

P20 – P35

M20 – M40

K20 – K40

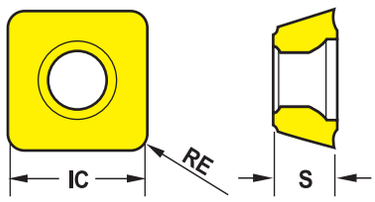
S15 – S25

Talaş Kırıcı Formlar / Drilling Chipbreakers

P M K M	–ST		• Keskin Geometri / **Sharp Geometry** • Yapışkan Malzeme, Paslanmaz Çelik / **Sticky Material, Stainless Steel**
P M K	Genel Uçlar **General Inserts**		• Genel Uygulama İçin İlk Tercih **First Choice for General Application**

İNÇ / INCH			DELME / DRILLING	
			Vc (m/min) VG3002	
ISO	ALT GRUP / SUB GROUP		MIN	MAX
P	Alaşımsız Celik	Non Alloy Steel	591	919
	Düşük Alaşımlı Çelik	Low Alloy Steel	492	820
	Yüksek Alaşımlı Çelik	High Alloy Steel	230	459
M	Ferritik Ve Martenzitik	Ferritic & Martensitic	394	656
	Östenitik Paslanmaz Çelik	Austenitic Stainless Steel	427	820
K	Gri Dökme Demir	Grey Cast Iron	394	820
	Sferö Döküm Demir	Nodular Cast Iron	427	711
N	Alüminyum	Aluminum	-	-
S	Titanyum Ve Süper Alaşım	Titanium & Super Alloy	82	148
H	Sertleştirilmiş Malzeme	Hardened Material	-	-

Delik Delme Ucu / Drilling Insert (SPMX)



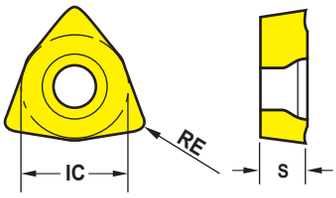
	IC	S
Metric	5	2.38
Inch	0.197	0.094
Metric	6	2.41
Inch	0.236	0.094
Metric	7.94	3.97
Inch	0.313	0.156
Metric	9.8	4.3
Inch	0.386	0.169
Metric	11.5	4.8
Inch	0.453	0.189
Metric	14.3	5.2
Inch	0.563	0.205

ISO 4 Corner
SPMX Series
00, 01, 02, 03, 04, 05

EDP	AÇIKLAMA / DESCRIPTION	İLERLEME / FEED RATE	
T.01.07.02.00	SPMX050204-VG3002	mm/rev.	0.07~0.14
		Inch/rev.	.003~.006
T.01.07.02.01	SPMX060204-VG3002	mm/rev.	0.08~0.14
		Inch/rev.	.003~.006
T.01.07.02.02	SPMX07T308-VG3002	mm/rev.	0.08~0.16
		Inch/rev.	.003~.006
T.01.07.02.03	SPMX090408-VG3002	mm/rev.	0.08~0.16
		Inch/rev.	.003~.006
T.01.07.02.04	SPMX110408-VG3002	mm/rev.	0.10~0.18
		Inch/rev.	.004~.007
T.01.07.02.05	SPMX140512-VG3002	mm/rev.	0.10~0.20
		Inch/rev.	.004~.008

Kesme Hızı / Cutting Speed				Vc (ft/min)	
ISO	VDI	Alt Grup / Sub Group		VG3002	
				Min	Max
P	1~5	Alaşımsız Çelik	Non-Alloyed Steel	460	1250
	6~9	Düşük Alaşımlı Çelik	Low-Alloyed Steel	390	980
	10~11	Yüksek Alaşımlı Çelik	High-Alloyed Steel	230	490
M	12~13	Ferritik Ve Martenzitik	Ferritic & Martensitic	390	660
	14	Östenitik Paslanmaz Çelik	Austenitic Stainless Steel	430	820
K	15~16	Gri Dökme Demir	Grey Cast Iron	390	820
	17~18	Sferö Döküm Demir	Nodular Cast Iron	430	720

Delik Delme Ucu / Drilling Insert (WCMX)

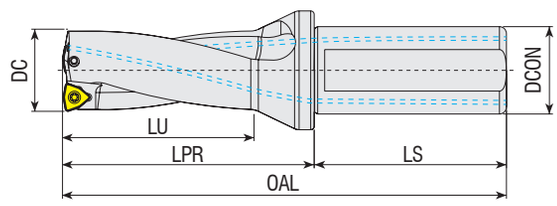


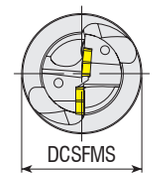
	IC	S
Metric	5.56	2.38
Inch	0.219	0.094
Metric	6.35	2.38
Inch	0.236	0.094
Metric	7.94	3.18
Inch	0.313	0.125
Metric	9.53	3.97
Inch	0.375	0.156
Metric	12.7	4.76
Inch	0.500	0.187

ISO 3 Corner
WCMX Series
01, 02, 03, 04, 05

EDP	AÇIKLAMA / DESCRIPTION	İLERLEME / FEED RATE	
T.01.07.01.01	WCMX030208-VG3002	mm/rev.	0.05~0.12
		Inch/rev.	.002~.005
T.01.07.01.02	WCMX040208-VG3002	mm/rev.	0.05~0.12
		Inch/rev.	.002~.005
T.01.07.01.03	WCMX050308-VG3002	mm/rev.	0.06~0.14
		Inch/rev.	.002~.006
T.01.07.01.04	WCMX06T308-VG3002	mm/rev.	0.08~0.14
		Inch/rev.	.003~.006
T.01.07.01.05	WCMX080412-VG3002	mm/rev.	0.08~0.14
		Inch/rev.	.003~.006

Kesme Hızı / Cutting Speed				Vc (ft/min)	
ISO	VDI	Alt Grup / Sub Group		VG3002	
				Min	Max
P	1~5	Alaşımsız Çelik	Non-Alloyed Steel	460	1250
	6~9	Düşük Alaşımlı Çelik	Low-Alloyed Steel	390	980
	10~11	Yüksek Alaşımlı Çelik	High-Alloyed Steel	230	490
M	12~13	Ferritik Ve Martenzitik	Ferritic & Martensitic	390	660
	14	Östenitik Paslanmaz Çelik	Austenitic Stainless Steel	430	820
K	15~16	Gri Dökme Demir	Grey Cast Iron	390	820
	17~18	Sferö Döküm Demir	Nodular Cast Iron	430	720



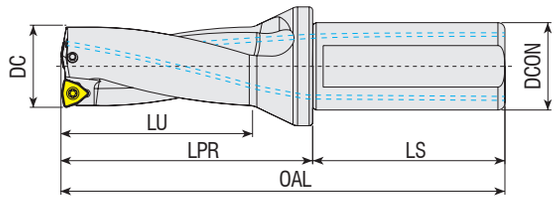


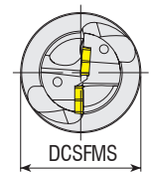
Delme Derinliği = 2x Çap
Drilling Depth = 2x Diameter
Bohrtiefe = 2x Durchmesser

Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)*		Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X_{max}[mm]	DC_{max}[mm]			
ATUM 16XD2 WCM. 030208	●	16	25	34	110	32	54	56	1.5	19			
ATUM 16.5XD2 WCM. 030208	●	16.5	25	34	110	32	54	56	1.5	19.5			
ATUM 17XD2 WCM. 030208	●	17	25	34	112	34	56	56	1.5	20			
ATUM 17.5XD2 WCM 030208	●	17.5	25	34	112	34	56	56	1.5	20.5			
ATUM 18XD2 WCM. 030208	●	18	25	34	114	36	58	56	1.4	20.8	WCM. 030208		
ATUM 18.5XD2 WCM. 030208	●	18.5	25	34	114	36	58	56	1.3	21.1			
ATUM 19XD2 WCM. 030208	●	19	25	34	116	38	60	56	1.2	21.4			
ATUM 19.5XD2 WCM. 030208	●	19.5	25	34	116	38	60	56	1.2	21.9		3008-M2.5x6	82-T08
ATUM 20XD2 WCM. 040208	●	20	25	34	118	40	62	56	1.5	23			
ATUM 20.5XD2 WCM. 040208	●	20.5	25	34	118	40	62	56	1.5	23.5			
ATUM 21XD2 WCM. 040208	●	21	25	34	120	42	64	56	1	23			
ATUM 21.5XD2 WCM. 040208	●	21.5	25	34	120	42	64	56	1	23.5	WCM. 040208		
ATUM 22XD2 WCM. 040208	●	22	25	34	122	44	66	56	1	24			
ATUM 22.5XD2 WCM. 040208	●	22.5	25	34	122	44	66	56	1	24.5			
ATUM 23XD2 WCM. 040208	●	23	25	34	124	46	68	56	1	25			
ATUM 23.5XD2 WCM. 040208	●	23.5	25	34	124	46	68	56	1	25.5			
ATUM 24XD2 WCM. 050308	●	24	25	34	126	48	70	56	1.4	26.8			
ATUM 24.5XD2 WCM. 050308	●	24.5	25	34	126	48	70	56	1.4	27.3			
ATUM 25XD2 WCM. 050308	●	25	25	34	128	50	72	56	1.45	27.9			
ATUM 25.5XD2 WCM. 050308	●	25.5	25	34	128	50	72	56	1.45	28.4			
ATUM 26XD2 WCM. 050308	●	26	25	34	130	52	74	56	1.45	28.9			
ATUM 26.5XD2 WCM. 050308	●	26.5	25	34	130	52	74	56	1.45	29.4			
ATUM 27XD2 WCM. 050308	●	27	25	34	132	54	76	56	1.45	29.9	WCM. 050308	3008-M3x8	
ATUM 27.5XD2 WCM. 050308	●	27.5	25	34	132	54	76	56	1.45	30.4			
ATUM 28XD2 WCM. 050308	●	28	25	34	134	56	78	56	1.6	31.2			
ATUM 28.5XD2 WCM. 050308	●	28.5	25	34	134	56	78	56	1.6	31.7			
ATUM 29XD2 WCM. 050308	●	29	25	34	136	58	80	56	1.65	32.3			
ATUM 29.5XD2 WCM. 050308	●	29.5	25	34	136	58	80	56	1.65	32.8			

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
ISO Ucuna Uygundur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 16XD2 WCM. 030208



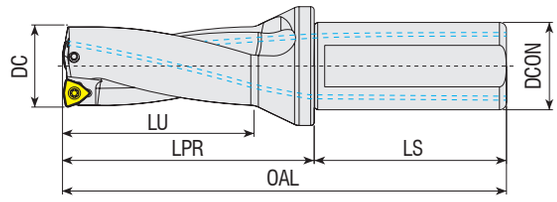


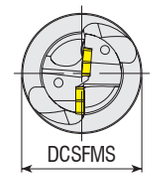
Delme Derinliği = 2x Çap
Drilling Depth = 2x Diameter
Bohrtiefe = 2x Durchmesser

Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)*		Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X_{max}[mm]	DC_{max}[mm]			
ATUM 30XD2 WCM. 06T308	●	30	32	44	147	60	87	60	2.4	34.8	WCM. 06T308	3010-M3.5x9	82-T10
ATUM 31XD2 WCM. 06T308	●	31	32	44	149	62	89	60	2.3	35.6			
ATUM 32XD2 WCM. 06T308	●	32	32	44	151	64	91	60	2.1	36.2			
ATUM 33XD2 WCM. 06T308	●	33	32	44	153	66	93	60	1.9	36.8			
ATUM 34XD2 WCM. 06T308	●	34	32	44	155	68	95	60	1.9	37.8			
ATUM 35XD2 WCM. 06T308	●	35	32	44	157	70	97	60	1.9	38.8			
ATUM 36XD2 WCM. 06T308	●	36	32	44	159	72	99	60	2	40			
ATUM 37XD2 WCM. 06T308	●	37	32	44	161	74	101	60	1.8	40.6			
ATUM 38XD2 WCM. 06T308	●	38	32	44	163	76	103	60	1.5	41			
ATUM 39XD2 WCM. 06T308	●	39	32	44	165	78	105	60	1.3	41.6			
ATUM 40XD2 WCM. 06T308	●	40	32	44	167	80	107	60	1	42			
ATUM 41XD2 WCM. 06T308	●	41	32	44	169	82	109	60	0.8	42.6			
ATUM 42XD2 WCM. 06T308	●	42	32	44	171	84	111	60	0.5	43			
ATUM 43XD2 WCM. 06T308	●	43	32	44	173	86	113	60	0.3	43.6			
ATUM 44XD2 WCM. 06T308	●	44	32	44	175	88	115	60	0	44			
ATUM 45XD2 WCM. 080412	●	45	40	54	192	90	122	70	3.3	51.6	WCM. 080412	4015-M4x11	80-T15
ATUM 46XD2 WCM. 080412	●	46	40	54	194	92	124	70	3	52			
ATUM 47XD2 WCM. 080412	●	47	40	54	196	94	126	70	2.8	52.6			
ATUM 48XD2 WCM. 080412	●	48	40	54	198	96	128	70	2.5	53			
ATUM 49XD2 WCM. 080412	●	49	40	54	200	98	130	70	2.2	53.4			
ATUM 50XD2 WCM. 080412	●	50	40	54	202	100	132	70	2	54			
ATUM 51XD2 WCM. 080412	●	51	40	54	204	102	134	70	1.8	54.6			
ATUM 52XD2 WCM. 080412	●	52	40	54	206	104	136	70	1.5	55			
ATUM 53XD2 WCM. 080412	●	53	40	54	208	106	138	70	1.3	55.6			
ATUM 54XD2 WCM. 080412	●	54	40	54	210	108	140	70	1	56			
ATUM 55XD2 WCM. 080412	●	55	40	54	212	110	142	70	0.8	56.6			
ATUM 56XD2 WCM. 080412	●	56	40	64	214	112	144	70	0.5	57			
ATUM 57XD2 WCM. 080412	●	57	40	64	216	114	146	70	0.3	57.6			
ATUM 58XD2 WCM. 080412	●	58	40	64	218	116	148	70	0	58			
ATUM 59XD2 WCM. 080412	●	59	40	64	220	118	150	70	0	59			
ATUM 60XD2 WCM. 080412	●	60	40	64	222	120	152	70	0	60			

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
ISO Ucuna Uygundur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 30XD2 WCM. 06T308



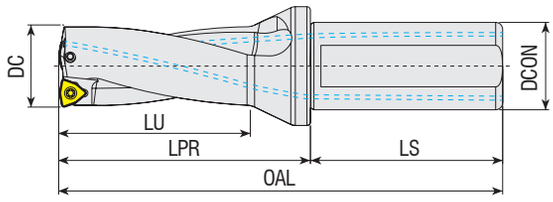


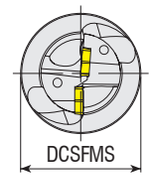
Delme Derinliği = 3x Çap
Drilling Depth = 3x Diameter
Bohrtiefe = 3x Durchmesser

Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)*		Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X_{max}[mm]	DC_{max}[mm]			
ATUM 16XD3 WCM. 030208	●	16	25	34	126	48	70	56	1.5	19	WCM. 030208	3008-M2.5x6	82-T08
ATUM 16.5XD3 WCM. 030208	●	16.5	25	34	126	48	70	56	1.5	19.5			
ATUM 17XD3 WCM. 030208	●	17	25	34	129	51	73	56	1.5	20			
ATUM 17.5XD3 WCM. 030208	●	17.5	25	34	129	51	73	56	1.5	20.5			
ATUM 18XD3 WCM. 030208	●	18	25	34	132	54	76	56	1.4	20.8			
ATUM 18.5XD3 WCM. 030208	●	18.5	25	34	132	54	76	56	1.3	21.1			
ATUM 19XD3 WCM. 030208	●	19	25	34	135	57	79	56	1.2	21.4			
ATUM 19.5XD3 WCM. 030208	●	19.5	25	34	135	57	79	56	1.2	21.9			
ATUM 20XD3 WCM. 040208	●	20	25	34	138	60	82	56	1.5	23	WCM. 040208		
ATUM 20.5XD3 WCM. 040208	●	20.5	25	34	138	60	82	56	1.5	23.5			
ATUM 21XD3 WCM. 040208	●	21	25	34	141	63	85	56	1	23			
ATUM 21.5XD3 WCM. 040208	●	21.5	25	34	141	63	85	56	1	23.5			
ATUM 22XD3 WCM. 040208	●	22	25	34	144	66	88	56	1	24			
ATUM 22.5XD3 WCM. 040208	●	22.5	25	34	144	66	88	56	1	24.5			
ATUM 23XD3 WCM. 040208	●	23	25	34	147	69	91	56	1	25			
ATUM 23.5XD3 WCM. 040208	●	23.5	25	34	147	69	91	56	1	25.5			
ATUM 24XD3 WCM. 050308	●	24	25	34	150	72	94	56	1.4	26.8	WCM. 050308	3008-M3x8	
ATUM 24.5XD3 WCM. 050308	●	24.5	25	34	150	72	94	56	1.4	27.3			
ATUM 25XD3 WCM. 050308	●	25	25	34	153	75	97	56	1.45	27.9			
ATUM 25.5XD3 WCM. 050308	●	25.5	25	34	153	75	97	56	1.45	28.4			
ATUM 26XD3 WCM. 050308	●	26	25	34	156	78	100	56	1.45	28.9			
ATUM 26.5XD3 WCM. 050308	●	26.5	25	34	156	78	100	56	1.45	29.4			
ATUM 27XD3 WCM. 050308	●	27	25	34	159	81	103	56	1.45	29.9			
ATUM 27.5XD3 WCM. 050308	●	27.5	25	34	159	81	103	56	1.45	30.4			
ATUM 28XD3 WCM. 050308	●	28	25	34	162	84	106	56	1.6	31.2			
ATUM 28.5XD3 WCM. 050308	●	28.5	25	34	162	84	106	56	1.6	31.7			
ATUM 29XD3 WCM. 050308	●	29	25	34	165	87	109	56	1.65	32.3			
ATUM 29.5XD3 WCM. 050308	●	29.5	25	34	165	87	109	56	1.65	32.8			
ATUM 30XD3 WCM. 06T308	●	30	32	44	177	90	117	60	2.4	34.8	WCM. 06T308	3010-M3.5x9	82-T10
ATUM 30.5XD3 WCM. 06T308	●	30.5	32	44	177	90	117	60	2.4	35.3			
ATUM 31XD3 WCM. 06T308	●	31	32	44	180	93	120	60	2.3	35.6			
ATUM 31.5XD3 WCM. 06T308	●	31.5	32	44	180	93	120	60	2.3	36.1			
ATUM 32XD3 WCM. 06T308	●	32	32	44	183	96	123	60	2.1	36.2			
ATUM 32.5XD3 WCM. 06T308	●	32.5	32	44	183	96	123	60	2.1	36.7			
ATUM 33XD3 WCM. 06T308	●	33	32	44	186	99	126	60	1.9	36.8			
ATUM 33.5XD3 WCM. 06T308	●	33.5	32	44	186	99	126	60	1.9	37.3			
ATUM 34XD3 WCM. 06T308	●	34	32	44	189	102	129	60	1.9	37.8			
ATUM 34.5XD3 WCM. 06T308	●	34.5	32	44	189	102	129	60	1.9	38.3			

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
ISO Ucuna Uygundur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 16XD3 WCM. 030208



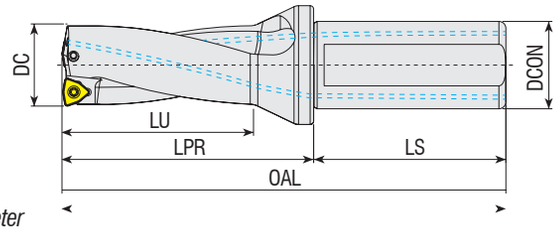


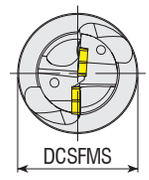
Delme Derinliği = 3x Çap
Drilling Depth = 3x Diameter
Bohrtiefe = 3x Durchmesser

Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)*		Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X_{max}[mm]	DC_{max}[mm]			
ATUM 35XD3 WCM. 06T308	●	35	32	44	192	105	132	60	1.9	38.8	WCM. 06T308	3010-M3.5x9	82-T10
ATUM 35.5XD3 WCM. 06T308	●	35.5	32	44	192	105	132	60	1.9	39.3			
ATUM 36XD3 WCM. 06T308	●	36	32	44	195	108	135	60	2	40			
ATUM 36.5XD3 WCM. 06T308	●	36.5	32	44	195	108	135	60	2	40.5			
ATUM 37XD3 WCM. 06T308	●	37	32	44	198	111	138	60	1.8	40.6			
ATUM 37.5XD3 WCM. 06T308	●	37.5	32	44	198	111	138	60	1.8	41.1			
ATUM 38XD3 WCM. 06T308	●	38	32	44	201	114	141	60	1.5	41			
ATUM 38.5XD3 WCM. 06T308	●	38.5	32	44	201	114	141	60	1.5	41.5			
ATUM 39XD3 WCM. 06T308	●	39	32	44	204	117	144	60	1.3	41.6			
ATUM 39.5XD3 WCM. 06T308	●	39.5	32	44	204	117	144	60	1.3	42.1			
ATUM 40XD3 WCM. 06T308	●	40	32	44	207	120	147	60	1	42			
ATUM 40.5XD3 WCM. 06T308	●	40.5	32	44	207	120	147	60	1	42.5			
ATUM 41XD3 WCM. 06T308	●	41	32	44	210	123	150	60	0.8	42.6			
ATUM 41.5XD3 WCM. 06T308	●	41.5	32	44	210	123	150	60	0.8	43.1			
ATUM 42XD3 WCM. 06T308	●	42	32	44	213	126	153	60	0.5	43			
ATUM 42.5XD3 WCM. 06T308	●	42.5	32	44	213	126	153	60	0.5	43.5			
ATUM 43XD3 WCM. 06T308	●	43	32	44	216	129	156	60	0.3	43.6			
ATUM 43.5XD3 WCM. 06T308	●	43.5	32	44	216	129	156	60	0.3	44.1			
ATUM 44XD3 WCM. 06T308	●	44	32	44	219	132	159	60	0	44			
ATUM 44.5XD3 WCM. 06T308	●	44.5	32	44	219	132	159	60	0	44.5			
ATUM 45XD3 WCM. 080412	●	45	40	54	237	135	167	70	3.3	51.6	WCM. 080412	4015-M4x11	80-T15
ATUM 45.5XD3 WCM. 080412	●	45.5	40	54	237	135	167	70	3.3	52.1			
ATUM 46XD3 WCM. 080412	●	46	40	54	240	138	170	70	3	52			
ATUM 47XD3 WCM. 080412	●	47	40	54	243	141	173	70	2.8	52.6			
ATUM 48XD3 WCM. 080412	●	48	40	54	246	144	176	70	2.5	53			
ATUM 49XD3 WCM. 080412	●	49	40	54	249	147	179	70	2.2	53.4			
ATUM 50XD3 WCM. 080412	●	50	40	54	252	150	182	70	2	54			
ATUM 51XD3 WCM. 080412	●	51	40	54	255	153	185	70	1.8	54.6			
ATUM 52XD3 WCM. 080412	●	52	40	54	258	156	188	70	1.5	55			
ATUM 53XD3 WCM. 080412	●	53	40	54	261	159	191	70	1.3	55.6			
ATUM 54XD3 WCM. 080412	●	54	40	54	264	162	194	70	1	56			
ATUM 55XD3 WCM. 080412	●	55	40	54	267	165	197	70	0.8	56.6			
ATUM 56XD3 WCM. 080412	●	56	40	64	270	168	200	70	0.5	57			
ATUM 57XD3 WCM. 080412	●	57	40	64	273	171	203	70	0.3	57.6			
ATUM 58XD3 WCM. 080412	●	58	40	64	276	174	206	70	0	58			
ATUM 59XD3 WCM. 080412	●	59	40	64	279	177	209	70	0	59			
ATUM 60XD3 WCM. 080412	●	60	40	64	282	180	212	70	0	60			

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
ISO Ucuna Uygundur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 35XD3 WCM. 06T308



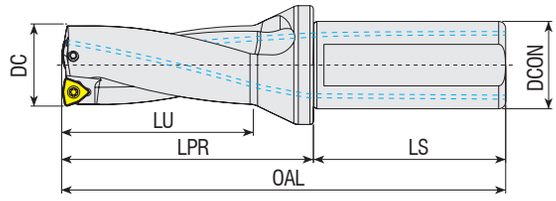


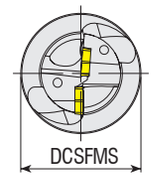
Delme Derinliği = 4x Çap
Drilling Depth = 4x Diameter
Bohrtiefe = 4x Durchmesser

Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)*		Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X_{max} [mm]	DC_{max} [mm]			
ATUM 16XD4 WCM. 030208	●	16	25	34	142	64	86	56	1.5	19	WCM. 030208	3008-M2.5x6	82-T08
ATUM 16.5XD4 WCM. 030208	○	16.5	25	34	142	64	86	56	1.5	19.5			
ATUM 17XD4 WCM. 030208	●	17	25	34	146	68	90	56	1.5	20			
ATUM 17.5XD4 WCM. 030208	●	17.5	25	34	146	68	90	56	1.5	20.5			
ATUM 18XD4 WCM. 030208	●	18	25	34	150	72	94	56	1.4	20.8			
ATUM 18.5XD4 WCM. 030208	○	18.5	25	34	150	72	94	56	1.3	21.1			
ATUM 19XD4 WCM. 030208	●	19	25	34	154	76	98	56	1.2	21.4			
ATUM 19.5XD4 WCM. 030208	○	19.5	25	34	154	76	98	56	1.2	21.9			
ATUM 20XD4 WCM. 040208	●	20	25	34	158	80	102	56	1.5	23	WCM. 040208		
ATUM 20.5XD4 WCM. 040208	○	20.5	25	34	158	80	102	56	1.5	23.5			
ATUM 21XD4 WCM. 040208	●	21	25	34	162	84	106	56	1	23			
ATUM 21.5XD4 WCM. 040208	○	21.5	25	34	162	84	106	56	1	23.5			
ATUM 22XD4 WCM. 040208	●	22	25	34	166	88	110	56	1	24			
ATUM 22.5XD4 WCM. 040208	●	22.5	25	34	166	88	110	56	1	24.5			
ATUM 23XD4 WCM. 040208	●	23	25	34	170	92	114	56	1	25			
ATUM 23.5XD4 WCM. 040208	○	23.5	25	34	170	92	114	56	1	25.5			
ATUM 24XD4 WCM. 050308	●	24	25	34	174	96	118	56	1.4	26.8	WCM. 050308	3008-M3x8	
ATUM 24.5XD4 WCM. 050308	○	24.5	25	34	174	96	118	56	1.4	27.3			
ATUM 25XD4 WCM. 050308	●	25	25	34	178	100	122	56	1.45	27.9			
ATUM 25.5XD4 WCM. 050308	○	25.5	25	34	178	100	122	56	1.45	28.4			
ATUM 26XD4 WCM. 050308	●	26	25	34	182	104	126	56	1.45	28.9			
ATUM 26.5XD4 WCM. 050308	●	26.5	25	34	182	104	126	56	1.45	29.4			
ATUM 27XD4 WCM. 050308	●	27	25	34	186	108	130	56	1.45	29.9			
ATUM 27.5XD4 WCM. 050308	○	27.5	25	34	186	108	130	56	1.45	30.4			
ATUM 28XD4 WCM. 050308	●	28	25	34	190	112	134	56	1.6	31.2			
ATUM 28.5XD4 WCM. 050308	●	28.5	25	34	190	112	134	56	1.6	31.7			
ATUM 29XD4 WCM. 050308	●	29	25	34	194	116	138	56	1.65	32.3			
ATUM 29.5XD4 WCM. 050308	○	29.5	25	34	194	116	138	56	1.65	32.8			

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
ISO Ucuna Uygundur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 16XD4 WCM. 030208



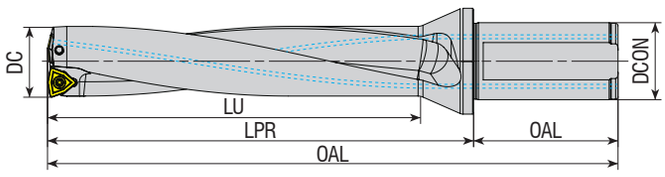


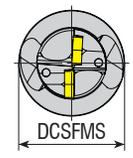
Delme Derinliği = 4x Çap
Drilling Depth = 4x Diameter
Bohrtiefe = 4x Durchmesser

Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)*		Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X_{max} [mm]	DC_{max} [mm]			
ATUM 30XD4 WCM. 06T308	●	30	32	44	207	120	147	60	2.4	34.8	WCM. 06T308	3010-M3.5x9	82-T10
ATUM 31XD4 WCM. 06T308	●	31	32	44	211	124	151	60	2.3	35.6			
ATUM 32XD4 WCM. 06T308	●	32	32	44	215	128	155	60	2.1	36.2			
ATUM 33XD4 WCM. 06T308	●	33	32	44	219	132	159	60	1.9	36.8			
ATUM 33.5XD4 WCM. 06T308	●	33.5	32	44	219	132	159	60	1.9	37.3			
ATUM 34XD4 WCM. 06T308	●	34	32	44	223	136	163	60	1.9	37.8			
ATUM 35XD4 WCM. 06T308	●	35	32	44	227	140	167	60	1.9	38.8			
ATUM 36XD4 WCM. 06T308	●	36	32	44	231	144	171	60	2	40			
ATUM 37XD4 WCM. 06T308	●	37	32	44	235	148	175	60	1.8	40.6			
ATUM 38XD4 WCM. 06T308	●	38	32	44	239	152	179	60	1.5	41			
ATUM 38.5XD4 WCM. 06T308	●	38.5	32	44	239	152	179	60	1.5	41.5			
ATUM 39XD4 WCM. 06T308	●	39	32	44	243	156	183	60	1.3	41.6			
ATUM 40XD4 WCM. 06T308	●	40	32	44	247	160	187	60	1	42			
ATUM 41XD4 WCM. 06T308	●	41	32	44	251	164	191	60	0.8	42.6			
ATUM 42XD4 WCM. 06T308	●	42	32	44	255	168	195	60	0.5	43			
ATUM 43XD4 WCM. 06T308	●	43	32	44	259	172	199	60	0.3	43.6			
ATUM 44XD4 WCM. 06T308	●	44	32	44	263	176	203	60	0	44			
ATUM 45XD4 WCM. 080412	●	45	40	54	282	180	212	70	3.3	51.6	WCM. 080412	4015-M4x11	80-T15
ATUM 46XD4 WCM. 080412	●	46	40	54	286	184	216	70	3	52			
ATUM 47XD4 WCM. 080412	●	47	40	54	290	188	220	70	2.8	52.6			
ATUM 48XD4 WCM. 080412	●	48	40	54	294	192	224	70	2.5	53			
ATUM 49XD4 WCM. 080412	●	49	40	54	298	196	228	70	2.2	53.4			
ATUM 50XD4 WCM. 080412	●	50	40	54	302	200	232	70	2	54			

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
ISO Ucuna Uygundur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 30XD4 WCM. 06T308





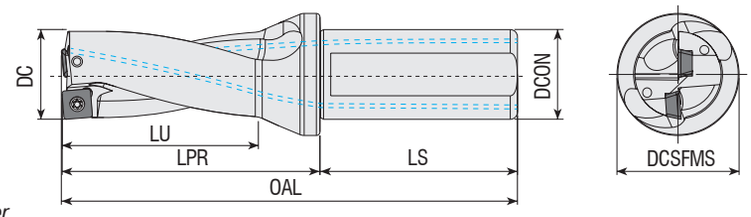
Delme Derinliği = 5x Çap
Drilling Depth = 5x Diameter
Bohrtiefe = 5x Durchmesser

Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*								Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)* X_{max}[mm]	DC_{max}[mm]			
ATUM 20XD5 WCM. 040208	●	20	25	34	178	100	122	56			**WCM. 040208**	3008-M2.5x6	82-T08
ATUM 21XD5 WCM. 040208	●	21	25	34	183	105	127	56					
ATUM 22XD5 WCM. 040208	●	22	25	34	188	110	132	56					
ATUM 23XD5 WCM. 040208	●	23	25	34	193	115	137	56					
ATUM 24XD5 WCM. 050308	●	24	25	34	198	120	142	56			**WCM. 050308**	3008-M3x8	
ATUM 25XD5 WCM. 050308	●	25	25	34	203	125	147	56					
ATUM 26XD5 WCM. 050308	●	26	25	34	208	130	152	56					
ATUM 27XD5 WCM. 050308	●	27	25	34	213	135	157	56					
ATUM 28XD5 WCM. 050308	●	28	25	34	218	140	162	56					
ATUM 29XD5 WCM. 050308	●	29	25	34	223	145	167	56					
ATUM 30XD5 WCM. 06T308	●	30	32	44	237	150	177	60			**WCM. 06T308**	3010-M3.5x9	82-T10
ATUM 31XD5 WCM. 06T308	●	31	32	44	242	155	182	60					
ATUM 32XD5 WCM. 06T308	●	32	32	44	247	160	187	60					
ATUM 33XD5 WCM. 06T308	●	33	32	44	252	165	192	60					
ATUM 34XD5 WCM. 06T308	●	34	32	44	257	170	197	60					
ATUM 35XD5 WCM. 06T308	●	35	32	44	262	175	202	60					
ATUM 37XD5 WCM. 06T308	●	37	32	44	272	185	212	60					
ATUM 38XD5 WCM. 06T308	●	38	32	44	277	190	217	60					
ATUM 46XD5 WCM. 080412	●	46	40	54	332	230	262	70			**WCM. 080412**	4015-M4x11	80-T15

R: Sağ / Right / *Rechts*/ L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
ISO Ucuna Uygundur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 20XD5 WCM. 040208

Delme Derinliği = 2x Çap
Drilling Depth = 2x Diameter
Bohrtiefe = 2x Durchmesser

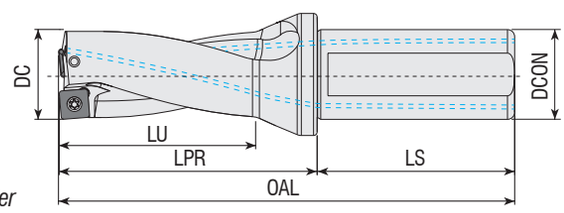


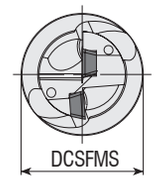
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* DC	DCON	DCSFMS	OAL	LU	LPR	LS	Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)* X_{max}[mm]	DC_{max}[mm]	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
ATUM 12.5XD2 SP.. 050204	●	12.5	20	25	96	24	46	50	0.75	14	SP.. 050204	3006-M2x4	82-T06
ATUM 13XD2 SP.. 050204	●	13	20	25	98	26	48	50	0.75	14.5			
ATUM 13.5XD2 SP.. 050204	●	13.5	20	25	98	26	48	50	0.75	15			
ATUM 14XD2 SP.. 050204	●	14	20	25	100	28	50	50	0.6	15.2			
ATUM 14.5XD2 SP.. 050204	●	14.5	20	25	100	28	50	50	0.6	15.7			
ATUM 15XD2 SP.. 050204	●	15	20	25	102	30	52	50	0.5	16			
ATUM 15.5XD2 SP.. 060204	●	15.5	20	25	102	30	52	50	0.9	17.3	SP.. 060204	3007-M2.2x4.6	82-T07
ATUM 16XD2 SP.. 060204	●	16	25	34	110	32	54	56	0.8	17.6			
ATUM 16.5XD2 SP.. 060204	●	16.5	25	34	110	32	54	56	0.8	18.1			
ATUM 17XD2 SP.. 060204	●	17	25	34	112	34	56	56	0.75	18.5			
ATUM 17.5XD2 SP.. 060204	●	17.5	25	34	112	34	56	56	0.75	19			
ATUM 18XD2 SP.. 060204	●	18	25	34	114	36	58	56	0.5	19			
ATUM 18.5XD2 SP.. 060204	●	18.5	25	34	114	36	58	56	0.5	19.5			
ATUM 19XD2 SP.. 060204	●	19	25	34	116	38	60	56	0.3	19.6			
ATUM 19.5XD2 SP.. 060204	●	19.5	25	34	116	38	60	56	0.3	20.1			
ATUM 20XD2 SP.. 060204	●	20	25	34	118	40	62	56	0	20			
ATUM 20.5XD2 SP.. 060204	●	20.5	25	34	118	40	62	56	0	20.5			
ATUM 21XD2 SP.. 060204	●	21	25	34	120	42	64	56	0	21			
ATUM 21.5XD2 SP.. 060204	●	21.5	25	34	120	42	64	56	0	21.5			
ATUM 22XD2 SP.. 07T308	●	22	25	34	122	44	66	56	1	24	SP.. 07T308	3008-M2.5x6	82-T08
ATUM 22XD2 SP.. 07T308-32	●	22	32	44	131	44	71	60	1	24			
ATUM 22.5XD2 SP.. 07T308	●	22.5	25	34	122	44	66	56	1	24.5			
ATUM 23XD2 SP.. 07T308	●	23	25	34	124	46	68	56	0.75	24.5			
ATUM 23XD2 SP.. 07T308-32	●	23	32	44	133	46	73	60	0.75	24.5			
ATUM 23.5XD2 SP.. 07T308	●	23.5	25	34	124	46	68	56	0.75	25			
ATUM 24XD2 SP.. 07T308	●	24	25	34	126	48	70	56	0.5	25			
ATUM 24XD2 SP.. 07T308-32	●	24	32	44	135	48	75	60	0.50	25			
ATUM 24.5XD2 SP.. 07T308	●	24.5	25	34	126	48	70	56	0.5	25.5			
ATUM 25XD2 SP.. 07T308	●	25	25	34	128	50	72	56	0.25	25.5			
ATUM 25XD2 SP.. 07T308-32	●	25	32	44	137	50	77	60	0.25	25.5			
ATUM 25.5XD2 SP.. 07T308	●	25.5	25	34	128	50	72	56	0.25	26			
ATUM 26XD2 SP.. 07T308	●	26	25	34	130	52	74	56	0	26			
ATUM 26XD2 SP.. 07T308-32	●	26	32	44	139	52	79	60	0	26			
ATUM 26.5XD2 SP.. 07T308	●	26.5	25	34	130	52	74	56	0	26.5			
ATUM 27XD2 SP.. 07T308	●	27	25	34	132	54	76	56	0	27			
ATUM 27XD2 SP.. 07T308-32	●	27	32	44	141	54	81	60	0	27			
ATUM 27.5XD2 SP.. 07T308	●	27.5	25	34	132	54	76	56	0	27.5			

R: Sağ / Right / *Rechts*/ L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
TGTC Ucuna Uygundur. / Compatible with TGTC Insert. / Kompatibel mit TGTC Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 12.5XD2 SP.. 050204

Delme Derinliği = 2x Çap
Drilling Depth = 2x Diameter
Bohrtiefe = 2x Durchmesser



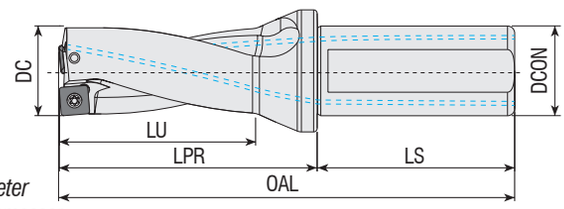


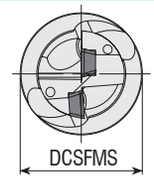
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)*		Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X_{max}[mm]	DC_{max}[mm]			
ATUM 28XD2 SP.. 090408	●	28	25	34	134	56	78	56	1	30			
ATUM 28XD2 SP.. 090408-32	●	28	32	44	143	56	83	60	1	29			
ATUM 28.5XD2 SP.. 090408	●	28.5	25	34	134	56	78	56	1	30.5			
ATUM 29XD2 SP.. 090408	●	29	25	34	136	58	80	56	0.75	30.5	**SP.. 090408**	4015-M3.5x9	80-T15
ATUM 29XD2 SP.. 090408-32	●	29	32	44	145	58	85	60	0.75	30.5			
ATUM 29.5XD2 SP.. 090408	●	29.5	25	34	136	58	80	56	0.75	31			
ATUM 30XD2 SP.. 090408	●	30	32	44	147	60	87	60	0.5	31			
ATUM 31XD2 SP.. 090408	●	31	32	44	149	62	89	60	0.25	31.5			
ATUM 32XD2 SP.. 090408	●	32	32	44	151	64	91	60	0	32			
ATUM 33XD2 SP.. 090408	●	33	32	44	153	66	93	60	0	33			
ATUM 34XD2 SP.. 110408	●	34	32	44	155	68	95	60	1	36			
ATUM 35XD2 SP.. 110408	●	35	32	44	157	70	97	60	0.75	36.5			
ATUM 36XD2 SP.. 110408	●	36	32	44	159	72	99	60	0.6	37.2			
ATUM 37XD2 SP.. 110408	●	37	32	44	161	74	101	60	0.5	38	**SP.. 110408**	4015-M4x11	80-T15
ATUM 38XD2 SP.. 110408	●	38	32	44	163	76	103	60	0.25	38.5			
ATUM 39XD2 SP.. 110408	●	39	32	44	165	78	105	60	0	39			
ATUM 40XD2 SP.. 110408	●	40	32	44	167	80	107	60	0	40			
ATUM 41XD2 SP.. 110408	●	41	32	44	169	82	109	60	0	41			
ATUM 42XD2 SP.. 140512	●	42	32	44	171	84	111	60	1.2	44.4			
ATUM 43XD2 SP.. 140512	●	43	32	44	173	86	113	60	1	45			
ATUM 44XD2 SP.. 140512	●	44	32	44	175	88	115	60	0.8	45.6			
ATUM 45XD2 SP.. 140512	●	45	40	54	192	90	122	70	0.6	46.2			
ATUM 46XD2 SP.. 140512	●	46	40	54	194	92	124	70	0.4	46.8	**SP.. 140512**	1020-M5x11	80-T20
ATUM 47XD2 SP.. 140512	●	47	40	54	196	94	126	70	0.2	47.4			
ATUM 48XD2 SP.. 140512	●	48	40	54	198	96	128	70	0	48			
ATUM 49XD2 SP.. 140512	●	49	40	54	200	98	130	70	0	49			
ATUM 50XD2 SP.. 140512	●	50	40	54	202	100	132	70	0	50			

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
TGTC Ucuna Uygundur. / Compatible with TGTC Insert. / Kompatibel mit TGTC Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 28XD2 SP.. 090408

Delme Derinliği = 3x Çap
Drilling Depth = 3x Diameter
Bohrtiefe = 3x Durchmesser

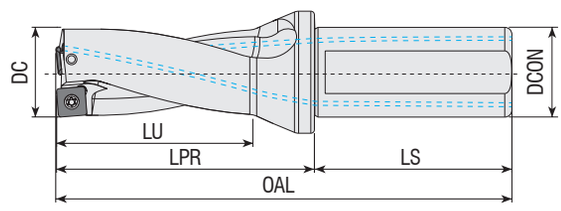


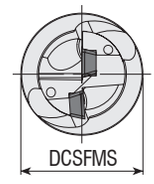


Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* DC	DCON	DCSFMS	OAL	LU	LPR	LS	Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)* X_{max}[mm]	DC_{max}[mm]	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
ATUM 12.5XD3 SP.. 050204	●	12.5	20	25	108	36	58	50	0.75	14	SP.. 050204	3006-M2x4	82-T06
ATUM 13XD3 SP.. 050204	●	13	20	25	111	39	61	50	0.75	14.5			
ATUM 13.5XD3 SP.. 050204	●	13.5	20	25	111	39	61	50	0.75	15			
ATUM 14XD3 SP.. 050204	●	14	20	25	114	42	64	50	0.6	15.2			
ATUM 14.5XD3 SP.. 050204	●	14.5	20	25	114	42	64	50	0.6	15.7			
ATUM 15XD3 SP.. 050204	●	15	20	25	117	45	67	50	0.5	16			
ATUM 15.5XD3 SP.. 060204	●	15.5	20	25	117	45	67	50	0.9	17.3	SP.. 060204	3007-M2.2x4.6	82-T07
ATUM 16XD3 SP.. 060204	●	16	25	34	126	48	70	56	0.8	17.6			
ATUM 16.5XD3 SP.. 060204	●	16.5	25	34	126	48	70	56	0.8	18.1			
ATUM 17XD3 SP.. 060204	●	17	25	34	129	51	73	56	0.75	18.5			
ATUM 17.5XD3 SP.. 060204	●	17.5	25	34	129	51	73	56	0.75	19			
ATUM 18XD3 SP.. 060204	●	18	25	34	132	54	76	56	0.5	19			
ATUM 18.5XD3 SP.. 060204	●	18.5	25	34	132	54	76	56	0.5	19.5			
ATUM 19XD3 SP.. 060204	●	19	25	34	135	57	79	56	0.3	19.6			
ATUM 19.5XD3 SP.. 060204	●	19.5	25	34	135	57	79	56	0.3	20.1			
ATUM 20XD3 SP.. 060204	●	20	25	34	138	60	82	56	0	20			
ATUM 20.5XD3 SP.. 060204	●	20.5	25	34	138	60	82	56	0	20.5			
ATUM 21XD3 SP.. 060204	●	21	25	34	141	63	85	56	0	21			
ATUM 21.5XD3 SP.. 060204	●	21.5	25	34	141	63	85	56	0	21.5			
ATUM 22XD3 SP.. 07T308	●	22	25	34	144	66	88	56	1	24	SP.. 07T308	3008-M2.5x6	82-T08
ATUM 22XD3 SP.. 07T308-32	●	22	32	44	153	66	93	60	1	23			
ATUM 22.5XD3 SP.. 07T308	●	22.5	25	34	144	66	88	56	1	24.5			
ATUM 23XD3 SP.. 07T308	●	23	25	34	147	69	91	56	0.75	24.5			
ATUM 23XD3 SP.. 07T308-32	●	23	32	44	156	69	96	60	0.75	24.5			
ATUM 23.5XD3 SP.. 07T308	●	23.5	25	34	147	69	91	56	0.75	25			
ATUM 24XD3 SP.. 07T308	●	24	25	34	150	72	94	56	0.5	25			
ATUM 24XD3 SP.. 07T308-32	●	24	32	44	159	72	99	60	0.50	25			
ATUM 24.5XD3 SP.. 07T308	●	24.5	25	34	150	72	94	56	0.5	25.5			
ATUM 25XD3 SP.. 07T308	●	25	25	34	153	75	97	56	0.25	25.5			
ATUM 25XD3 SP.. 07T308-32	●	25	32	44	162	75	102	60	0.25	25.5			
ATUM 25.5XD3 SP.. 07T308	●	25.5	25	34	153	75	97	56	0.25	26			
ATUM 26XD3 SP.. 07T308	●	26	25	34	156	78	100	56	0	26			
ATUM 26XD3 SP.. 07T308-32	●	26	32	44	165	78	105	60	0	26			
ATUM 26.5XD3 SP.. 07T308	●	26.5	25	34	156	78	100	56	0	26.5			
ATUM 27XD3 SP.. 07T308	●	27	25	34	159	81	103	56	0	27			
ATUM 27XD3 SP.. 07T308-32	●	27	32	44	168	81	108	60	0	27			
ATUM 27.5XD3 SP.. 07T308	●	27.5	25	34	159	81	103	56	0	27.5			
ATUM 28XD3 SP.. 090408	●	28	25	34	162	84	106	56	1	30	SP.. 090408	4015-M3.5x9	80-T15
ATUM 28XD3 SP.. 090408-32	●	28	32	44	171	84	111	60	1	29			
ATUM 28.5XD3 SP.. 090408	●	28.5	25	34	162	84	106	56	1	30.5			
ATUM 29XD3 SP.. 090408	●	29	25	34	165	87	109	56	0.75	30.5			
ATUM 29XD3 SP.. 090408-32	●	29	32	44	174	87	114	6	0.75	30.5			
ATUM 29.5XD3 SP.. 090408	●	29.5	25	34	165	87	109	56	0.75	31			
ATUM 30XD3 SP.. 090408	●	30	32	44	177	90	117	60	0.5	31			
ATUM 30.5XD3 SP.. 090408	●	30.5	32	44	177	90	117	60	0.5	31.5			
ATUM 31XD3 SP.. 090408	●	31	32	44	180	93	120	60	0.25	31.5			
ATUM 31.5XD3 SP.. 090408	●	31.5	32	44	180	93	120	60	0.25	32			
ATUM 32XD3 SP.. 090408	●	32	32	44	183	96	123	60	0	32			
ATUM 32.5XD3 SP.. 090408	●	32.5	32	44	183	96	123	60	0	32.5			
ATUM 33XD3 SP.. 090408	●	33	32	44	186	99	126	60	0	33			
ATUM 33.5XD3 SP.. 090408	●	33.5	32	44	186	99	126	60	0	33.5			

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
TGTC Ucuna Uygundur. / Compatible with TGTC Insert. / Kompatibel mit TGTC Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 12.5XD3 SP.. 050204





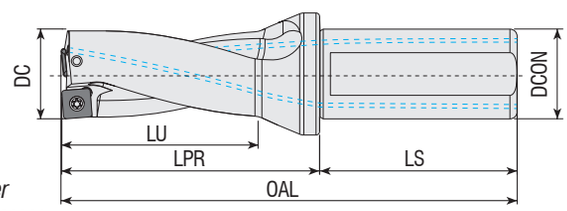
Delme Derinliği = 3x Çap
Drilling Depth = 3x Diameter
Bohrtiefe = 3x Durchmesser

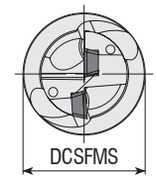
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)*							Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)*		Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X_{max}[mm]	DC_{max}[mm]			
ATUM 34XD3 SP.. 110408	●	34	32	44	189	102	129	60	1	36	SP.. 110408	4015-M4x11	80-T15
ATUM 34.5XD3 SP.. 110408	●	34.5	32	44	189	102	129	60	1	36.5			
ATUM 35XD3 SP.. 110408	●	35	32	44	192	105	132	60	0.75	36.5			
ATUM 35.5XD3 SP.. 110408	●	35.5	32	44	192	105	132	60	0.75	37			
ATUM 36XD3 SP.. 110408	●	36	32	44	195	108	135	60	0.6	37.2			
ATUM 36.5XD3 SP.. 110408	●	36.5	32	44	195	108	135	60	0.6	37.7			
ATUM 37XD3 SP.. 110408	●	37	32	44	198	111	138	60	0.5	38			
ATUM 37.5XD3 SP.. 110408	●	37.5	32	44	198	111	138	60	0.5	38.5			
ATUM 38XD3 SP.. 110408	●	38	32	44	201	114	141	60	0.25	38.5			
ATUM 38.5XD3 SP.. 110408	●	38.5	32	44	201	114	141	60	0.25	39			
ATUM 39XD3 SP.. 110408	●	39	32	44	204	117	144	60	0	39			
ATUM 39.5XD3 SP.. 110408	●	39.5	32	44	204	117	144	60	0	39.5			
ATUM 40XD3 SP.. 110408	●	40	32	44	207	120	147	60	0	40			
ATUM 40.5XD3 SP.. 110408	●	40.5	32	44	207	120	147	60	0	40.5			
ATUM 41XD3 SP.. 110408	●	41	32	44	210	123	150	60	0	41			
ATUM 41.5XD3 SP.. 110408	●	41.5	32	44	210	123	150	60	0	41.5			
ATUM 42XD3 SP.. 140512	●	42	32	44	213	126	153	60	1.2	44.4	SP.. 140512	1020-M5x11	80-T20
ATUM 42.5XD3 SP.. 140512	●	42.5	32	44	213	126	153	60	1.2	44.9			
ATUM 43XD3 SP.. 140512	●	43	32	44	216	129	156	60	1	45			
ATUM 43.5XD3 SP.. 140512	●	43.5	32	44	216	129	156	60	1	45.5			
ATUM 44XD3 SP.. 140512	●	44	32	44	219	132	159	60	0.8	45.6			
ATUM 44.5XD3 SP.. 140512	●	44.5	32	44	219	132	159	60	0.8	46.1			
ATUM 45XD3 SP.. 140512	●	45	40	54	237	135	167	70	0.6	46.2			
ATUM 45.5XD3 SP.. 140512	●	45.5	40	54	237	135	167	70	0.6	46.7			
ATUM 46XD3 SP.. 140512	●	46	40	54	240	138	170	70	0.4	46.8			
ATUM 47XD3 SP.. 140512	●	47	40	54	243	141	173	70	0.2	47.4			
ATUM 48XD3 SP.. 140512	●	48	40	54	246	144	176	70	0	48			
ATUM 49XD3 SP.. 140512	●	49	40	54	249	147	179	70	0	49			
ATUM 50XD3 SP.. 140512	●	50	40	54	252	150	182	70	0	50			
ATUM 51XD3 SP.. 140512	●	51	40	54	255	153	185	70	0	51			
ATUM 52XD3 SP.. 140512	●	52	40	54	258	156	188	70	0	52			

R: Sağ / Right / *Rechts*/ L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
TGTC Ucuna Uygundur. / Compatible with TGTC Insert. / Kompatibel mit TGTC Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 34XD3 SP.. 110408

Delme Derinliği = 4x Çap
Drilling Depth = 4x Diameter
Bohrtiefe = 4x Durchmesser

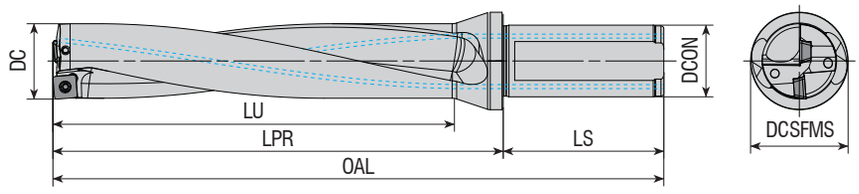




Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* DC	DCON	DCSFMS	OAL	LU	LPR	LS	Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)* X_{max}[mm]	DC_{max}[mm]	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
ATUM 13XD4 SP.. 050204	●	13	20	25	124	52	74	50	0.75	14.5	SP.. 050204	3006-M2x4	82-T06
ATUM 14XD4 SP.. 050204	●	14	20	25	128	56	78	50	0.6	15.2			
ATUM 14.5XD4 SP.. 050204	●	14.5	20	25	128	56	78	50	0.60	15.7		3006-M2.5X4	
ATUM 15XD4 SP.. 050204	●	15	20	25	132	60	82	50	0.5	16			
ATUM 16XD4 SP.. 060204	●	16	25	34	142	64	86	56	0.8	17.6	SP.. 060204	3007-M2.2x4.6	82-T07
ATUM 17XD4 SP.. 060204	●	17	25	34	146	68	90	56	0.75	18.5			
ATUM 17.5XD4 SP.. 060204	●	17.5	25	34	146	68	90	56	0.75	19			
ATUM 18XD4 SP.. 060204	●	18	25	34	150	72	94	56	0.5	19			
ATUM 19XD4 SP.. 060204	●	19	25	34	154	76	98	56	0.3	19.6			
ATUM 19.5XD4 SP.. 060204	●	19.5	25	34	154	76	98	56	0.3	20.1			
ATUM 20XD4 SP.. 060204	●	20	25	34	158	80	102	56	0	20			
ATUM 21XD4 SP.. 060204	●	21	25	34	162	84	106	56	0	21			
ATUM 22XD4 SP.. 07T308	●	22	25	34	166	88	110	56	1	24	SP.. 07T308	3008-M2.5x6	82-T08
ATUM 23XD4 SP.. 07T308	●	23	25	34	170	92	114	56	0.75	24.5			
ATUM 23.5XD4 SP.. 07T308	●	23.5	25	34	170	92	114	56	0.75	25			
ATUM 24XD4 SP.. 07T308	●	24	25	34	174	96	118	56	0.5	25			
ATUM 25XD4 SP.. 07T308	●	25	25	34	178	100	122	56	0.25	25.5			
ATUM 26XD4 SP.. 07T308	●	26	25	34	182	104	126	56	0	26			
ATUM 27XD4 SP.. 07T308	●	27	25	34	186	108	130	56	0	27			
ATUM 27.5XD4 SP.. 07T308	●	27.5	25	34	186	108	130	56	0	27.5			
ATUM 28XD4 SP.. 090408	●	28	25	34	190	112	134	56	1	30	SP.. 090408	4015-M3.5x9	80-T15
ATUM 29XD4 SP.. 090408	●	29	25	34	194	116	138	56	0.75	30.5			
ATUM 30XD4 SP.. 090408	●	30	32	44	207	120	147	60	0.5	31			
ATUM 31XD4 SP.. 090408	●	31	32	44	211	124	151	60	0.25	31.5			
ATUM 32XD4 SP.. 090408	●	32	32	44	215	128	155	60	0	32			
ATUM 33XD4 SP.. 090408	●	33	32	44	219	132	159	60	0	33			
ATUM 33.5XD4 SP.. 090408	●	33.5	32	44	219	132	159	60	0	33.5			
ATUM 34XD4 SP.. 110408	●	34	32	44	223	136	163	60	1	36	SP.. 110408	4015-M4x11	80-T15
ATUM 35XD4 SP.. 110408	●	35	32	44	227	140	167	60	0.75	36.5			
ATUM 36XD4 SP.. 110408	●	36	32	44	231	144	171	60	0.6	37.2			
ATUM 37XD4 SP.. 110408	●	37	32	44	235	148	175	60	0.5	38			
ATUM 38XD4 SP.. 110408	●	38	32	44	239	152	179	60	0.25	38.5			
ATUM 39XD4 SP.. 110408	●	39	32	44	243	156	183	60	0	39			
ATUM 40XD4 SP.. 110408	●	40	32	44	247	160	187	60	0	40			
ATUM 41XD4 SP.. 110408	●	41	32	44	251	164	191	60	0	41			
ATUM 42XD4 SP.. 140512	●	42	32	44	255	168	195	60	1.2	44.4	SP.. 140512	1020-M5x11	80-T20
ATUM 43XD4 SP.. 140512	●	43	32	44	259	172	199	60	1	45			
ATUM 44XD4 SP.. 140512	●	44	32	44	263	176	203	60	0.8	45.6			
ATUM 46XD4 SP.. 140512	●	46	40	54	286	184	216	70	0.40	46.8			

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
TGTC Ucuna Uygundur. / Compatible with TGTC Insert. / Kompatibel mit TGTC Wendeplatten.

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 13XD4 SP.. 050204



Delme Derinliği = 5x Çap
Drilling Depth = 5x Diameter
Bohrtiefe = 5x Durchmesser

Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* *Lager*	Takım Ölçüleri (mm) *Dimension (mm)* *Abmessung (mm)* DC	DCON	DCSFMS	OAL	LU	LPR	LS	Maks. Ofset (radyal) *Max. Offset (radial)* *Max. Versatz (radial)* X_{max}[mm]	DC_{max}[mm]	Kesici Uç *Insert* *Wendeschneidplatte*	Yedek Parçaları / *Spare Parts* / *Ersatzteile* Sıkma Vidası *Screw* *Schraube*	Tork Anahtar *Torx Key* *Torx-Schlüssel*
ATUM 13XD5 SP.. 050204	●	13	20	25	137	65	87	50	0.75	14.5	SP.. 050204	3006-M2.5x4	82-T06
ATUM 14XD5 SP.. 050204	●	14	20	25	142	70	92	50	0.6	15.2		3006-M2x4	
ATUM 14.5XD5 SP.. 050204	●	14.5	20	25	142	70	92	50	0.60	15.7		3006-M2.5x4	
ATUM 15XD5 SP.. 050204	●	15	20	25	147	75	97	50	0.50	16			
ATUM 16XD5 SP.. 060204	●	16	25	34	158	80	102	56	0.8	17.6	SP.. 060204	3007-M2.2x4.6	82-T07
ATUM 17XD5 SP.. 060204	●	17	25	34	163	85	107	56	0.75	18.5		3007-M2.2x5	
ATUM 17XD5 SP.. 060204-32	●	17	32	34	163	85	107	56	0.75	18.5			
ATUM 18XD5 SP.. 060204	●	18	25	34	168	90	112	56	0.5	19			
ATUM 19XD5 SP.. 060204	●	19	25	34	173	95	117	56	0.3	19.6			
ATUM 20XD5 SP.. 060204	●	20	25	34	178	100	122	56	0	20			
ATUM 21XD5 SP.. 060204	●	21	25	34	183	105	127	56	0	21			
ATUM 22XD5 SP.. 07T308	●	22	25	34	188	110	132	56	1	24	SP.. 07T308	3008-M2.5x6	82-T08
ATUM 22XD5 SP.. 07T308-32	●	22	32	44	197	110	137	60	1	24			
ATUM 23XD5 SP.. 07T308	●	23	25	34	193	115	137	56	0.75	24.5			
ATUM 23XD5 SP.. 07T308-32	●	23	32	44	202	115	142	60	0.75	24.5			
ATUM 24XD5 SP.. 07T308-32	●	24	32	44	207	120	147	60	0.5	25			
ATUM 25XD5 SP.. 07T308	●	25	25	34	203	125	147	56	0.25	25.5			
ATUM 25XD5 SP.. 07T308-32	●	25	32	44	212	125	152	60	0.25	25.5			
ATUM 26XD5 SP.. 07T308	●	26	25	34	208	130	152	56	0	26			
ATUM 26XD5 SP.. 07T308-32	●	26	32	44	217	130	157	60	0	26			
ATUM 27XD5 SP.. 07T308	●	27	25	34	213	135	157	56	0	27			
ATUM 27XD5 SP.. 07T308-32	●	27	32	44	222	135	162	60	0	27			
ATUM 28XD5 SP.. 090408-32	●	28	32	44	227	140	167	60	1	30	SP.. 090408	4015-M3.5x9	80-T15
ATUM 29XD5 SP.. 090408-32	●	29	32	44	232	145	172	60	0.75	30.5			
ATUM 30XD5 SP.. 090408	●	30	32	44	237	150	177	60	0.5	31			
ATUM 31XD5 SP.. 090408	●	31	32	44	242	155	182	60	0.25	31.5			
ATUM 32XD5 SP.. 090408	●	32	32	44	247	160	187	60	0	32			
ATUM 33XD5 SP.. 090408	●	33	32	44	252	165	192	60	0	33			

R: Sağ / Right / *Rechts* L: Sol / Left / *Links*
● Stokta / In Stock / *Auf Lager* ○ Stokta Yok / Non Stock Item / *Kein Lagerartikel, Lieferzeit auf Anfrage*
TGTC Ucuna Uygundur. / Compatible with TGTC Insert. / *Kompatibel mit TGTC Wendeplatten.*

Sipariş Örneği/Ordering Example/*Bestellbeispiel*
1 ad./pcs./stück ATUM 13XD5 SP.. 050204

HELİSEL İÇTEN SU VERME KANALLI MATKAPLAR
INDEXABLE DRILLS WITH HELICAL COOLANT HOLE
INDIZIERBARE VOLLBOHRER MIT HELIX KÜHLUNGSHÖHLEN

Farklı çaplarda ve ALFA KAPLAMA teknolojisi ile siparişe hazır.

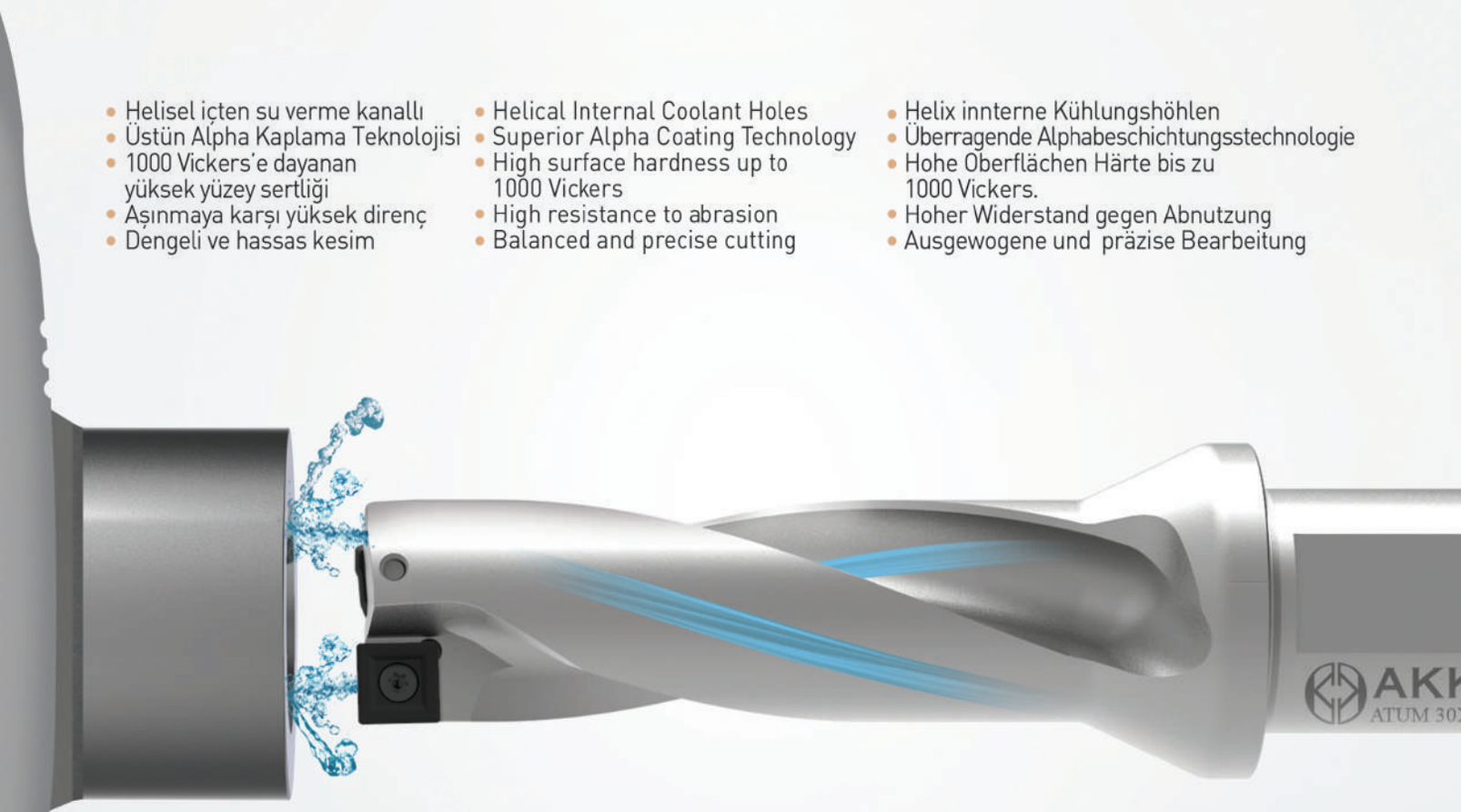
They are ready to order in different diameters and with ALPHA COATING technology.

Die Vollbohrer sind in unterschiedlichen Dimensionen und mit ALFABESCHICHTUNGSTECHNOLOGY bereit für die Bestellungen.

- Helisel içten su verme kanallı
- Üstün Alpha Kaplama Teknolojisi
- 1000 Vickers'e dayanan yüksek yüzey sertliği
- Aşınmaya karşı yüksek direnç
- Dengeli ve hassas kesim

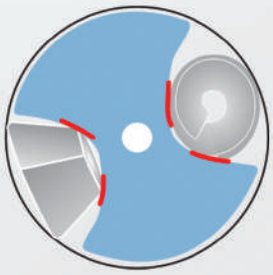
- Helical Internal Coolant Holes
- Superior Alpha Coating Technology
- High surface hardness up to 1000 Vickers
- High resistance to abrasion
- Balanced and precise cutting

- Helix innterne Kühlungshöhlen
- Überragende Alphabeschichtungsstechnologie
- Hohe Oberflächen Härte bis zu 1000 Vickers.
- Hoher Widerstand gegen Abnutzung
- Ausgewogene und präzise Bearbeitung



AKKO HELİSEL KANAL TEKNOLOJİSİ
AKKO HELICAL CHANNEL TECHNOLOGY
AKKO HELIX KANAL TECHNOLOGIE

RAKİPLER
COMPETITORS
KONKURRENZ



✱ *STOK DURUMU / **STOCK STATUS** / STOCK STATUS*

D2 / D3 / D4 / D5

✱ *Helisel İçten Su Verme Kanalı*
Twisted Coolant Hole
Spiralförmige Kühlungshöhlen

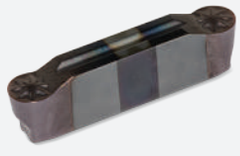
KESME & KANAL AÇMA UÇ ve TAKIMLARI

GROOVING & PARTING INSERT and TOOLS

EINSTECH- und ABSTECHWENDESCHEIPLATTEN UND WERKZEUGE

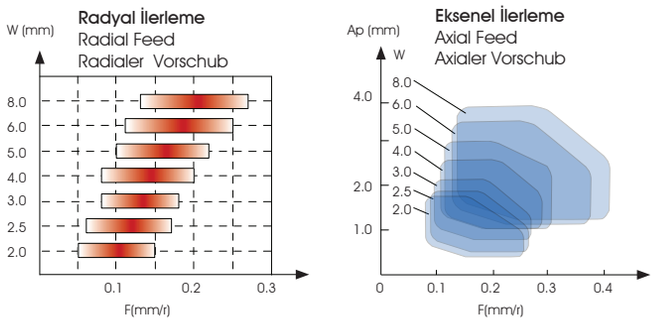
AGD-MT / AGD-MR Uç Serisi / Insert Series / Insert Serie

Kesme ve Kanal Açma Uçlarına Genel Bakış
Overview of Parting and Grooving Inserts
Überblick über Wendeschneidplatten zum Abstechen und Einstechen

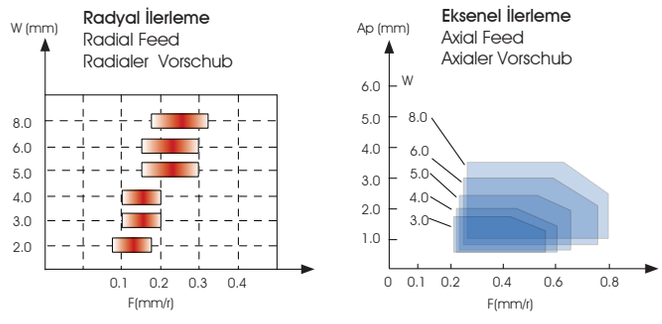
Form Shape	Geometri Geometry	Ugulama Application	Genişlik Width
	AGD-MT	Medium Turning	2.0-8.0 (mm)
	AGD-MR	Medium Profiling	2.0-8.0 (mm)

Önerilen Kesme Değerleri
Recommended Cutting Datas
Empfolene Schnittdaten

AGD-MT



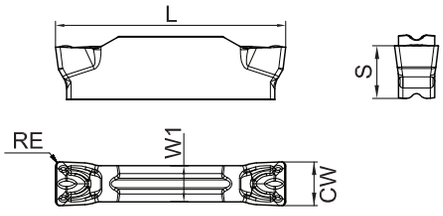
AGD-MR



ISO	İs Parçasi Malzemesi Workpiece Material	Sertlik Hardness (HB)	Kesme Hızı / Cutting Speed Vc m/min / *Schneidgeschwindigkeit*						
			AP1105	AP1225	AK1115	AS3115	AS3125	AA4230	AS9125
P	**Düşük Karbonlıu Çelik** Low Carbon Steel	80 – 170	120 (80-220)	120 (80-220)		70 (50-100)	70 (50-100)	110 (70-180)	
	Yüksek Karbonlu Çelik High Carbon Steel	170 –250	120 (80-220)	120 (80-220)				110 (70-150)	
	Düşük Alaşımlı Çelik Low-alloy Steel	140– 260	110 (60-180)	110 (60-180)		70 (50-100)	70 (50-100)	(40-150)	
	Yüksek Alaşımlı Çelik High-alloy Steel	180– 300	110 (60-180)	110 (60-180)				110 (40-150)	
	Dökme Çelik Cast Steel	180– 300	110 (60-180)	110 (60-180)				110 (40-150)	
M	**Ferritik / Martenzitik** Ferritic/ Martensitic	150– 270				90 (50-150)	90 (30-180)	110 (40-180)	
	Östenitik Austenitic	150– 270				90 (50-150)	90 (30-180)	(40-180)	
K	**Dövülebilir Dökme Demir** Malleable Cast Iron	150– 230			130 (50-200)			(50-180)	
	Gri Dökme Demir Gray Cast Iron	150– 230			130 (50-200)			110 (50-180)	
	Sferö Döküm Demir Nodular Cast Iron	160– 260			100 (50-150)			100 (50-150)	
S	**Isıya Dayanıklı Alaşımlar** Heat-resistant Alloy	130– 400				35 (15-60)	35 (15-70)		
	Titanyum Alaşımlar Titanium Alloys	130– 400				35 (15-60)	35 (15-70)		35 (15-60)

1	2	3	4-5	6-7	8	9	10
A	G	D	30--04	MT	A	A	4230

- **1: AKKO**
- **2: GROOVING** KANAL AÇMA
- **3:** D **DOUBLE SIDE** ÇİFT TARAFLI; S **SINGLE SIDE** TEK TARAFLI
- **4-5: WIDTH** GENİŞLİK; **CORNER RADIUS** KÖŞE YARIÇAPI
- **6-7: CHIP BREAKER** TALAŞ KIRICI FORM; **MT: MEDIUM TURNING** MT: ORTA TORNALAMA; **MR:MEDIUM PROFILING** MR:ORTA PROFİLLEME
- **8: AKKO**
- **9:** A: **GENERAL** / GENEL; P: **STEEL** / ÇELİK; K: **CAST IRON** / DÖKÜM; M: **STAINLESS STEEL** / PASLANMAZ; S: **HEAT RESISTANT ALLOYS / TITANIUM** ISIYA DAYANIKLI ALAŞIMLAR / TİTANYUM; N: **NON-FERROUS METARIALS** DEMİR OLMAYAN METALLER; H: **HARDENED STEEL** / SERT METAL
- **10: GRADE** / SERTLİK

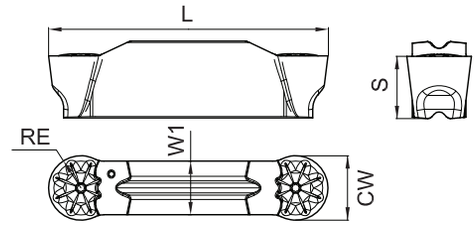


AGD-MT

AKKO Çift Tarafli Kesme Uçları
AKKO Grooving Double Side
AKKO Nuten beidseitig

Sipariş Kodu Ordering Code *Bestellungsnummer*	Ölçü / Dimension (mm) / *Dimension*					Kalite / Grade / Qualität		
	CW±0.05	RE±0.05	L	W1	S	AP1225	AK1115	AA4230
AGD2002-MT	2.0	0.2	16.0	1.2	3.5	●	●	●
AGD2502-MT	2.5	0.2	18.5	2.0	3.85	●	●	●
AGD3004-MT	3.0	0.4	21.2	2.35	4.8	●	●	●
AGD4004-MT	4.0	0.4	21.0	3.3	4.8	●	●	●
AGD5004-MT	5.0	0.4	26.0	4.1	5.8	●	●	●
AGD5008-MT	5.0	0.8	26.0	4.1	5.8	●	●	●
AGD6004-MT	6.0	0.4	26.0	5.0	5.8	●	●	●
AGD6008-MT	6.0	0.8	26.0	5.0	5.8	●	●	●
AGD8008-MT	8.0	0.8	31.0	6.0	6.5	●	●	●

● **Stok** Stock ○ **Talep Edilmesi Halinde Üretilecek** Available upon order

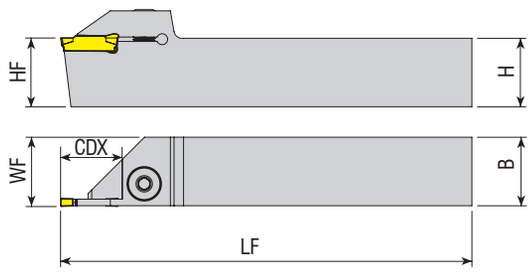


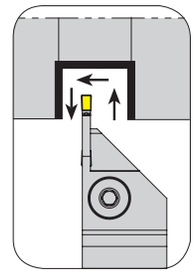
AGD-MR

AKKO Çift Tarafli Kesme Uçları
AKKO Grooving Double Side
AKKO Nuten beidseitig

Sipariş Kodu Ordering Code *Bestellungsnummer*	Ölçü / Dimension (mm) / *Dimension*					Kalite / Grade / Qualität			
	CW±0.05	RE±0.05	L	W1	S	AP1105	AP1225	AK1115	AA4230
AGD2010-MR	2.0	1.0	16.0	1.2	3.5	●	●	●	●
AGD3015-MR	3.0	1.5	21.2	2.35	4.8	●	●	●	●
AGD4020-MR	4.0	2.0	21.0	3.3	4.8	●	●	●	●
AGD5025-MR	5.0	2.5	26.0	4.1	5.8	●	●	●	●
AGD6030-MR	6.0	3.0	26.0	5.0	5.8	●	●	●	●
AGD8040-MR	8.0	4.0	31.0	6.0	6.5	●	●	●	●

● **Stok** Stock ○ **Talep Edilmesi Halinde Üretilecek** Available upon order

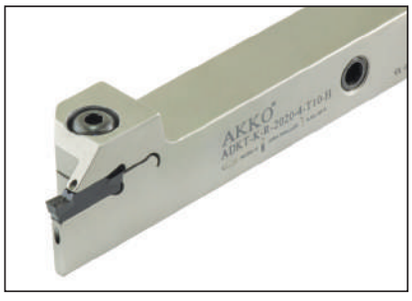


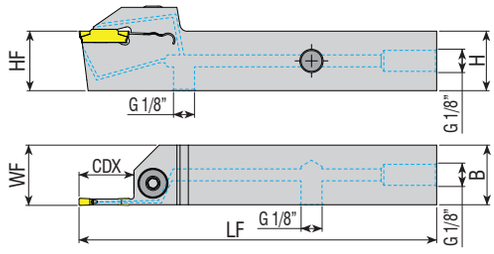


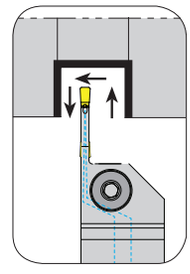
Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* R	Stok *Stock* L	Takım Ölçüleri (mm) *Dimension (mm)* HF=H	B	LF	WF	CDX	Kesici Uç *Insert*	Yedek Parçaları / *Spare Parts* Sıkma Vidası *Screw*	Pul *Stamp*	Anahtar *Allen Key*
ADKT-K-R/L-1212-1.5-T15	●	●	12	12	100	12.2	15	MGM. - 1.5	AKV-02-M6x22	ABPL-01	AAL-03-3
ADKT-K-R/L-2020-1.5-T15	●	●	20	20	125	20.2	15				
ADKT-K-R/L-1212-2-T15	●	●	12	12	100	16.3	15	AGD. - 2 MGM. - 2			
ADKT-K-R/L-1616-2-T10	●	●	16	16	125	16.3	10				
ADKT-K-R/L-1616-2-T15	●	●	16	16	125	16.3	15				
ADKT-K-R/L-2020-2-T15	●	●	20	20	150	20.3	15				
ADKT-K-R/L-2525-2-T15	●	●	25	25	150	25.3	15				
ADKT-K-R/L-3232-2-T15	●	●	32	32	170	32.3	15				
ADKT-K-R/L-1212-3-T15	●	●	12	12	100	12.3	15	AGD. - 3 MGM. - 3	2004-M8x1x20	-	AAL-05-4
ADKT-K-R/L-1616-3-T15	●	●	16	16	125	16.3	15				
ADKT-K-R/L-2020-3-T10	●	●	20	20	125	20.3	10				
ADKT-K-R/L-2020-3-T20	●	●	20	20	125	20.3	20				
ADKT-K-R/L-2020-3-R28	●	●	20	20	125	20.3	28				
ADKT-K-R/L-2525-3-T10	●	●	25	25	150	25.3	10				
ADKT-K-R/L-2525-3-R15	●	●	25	25	150	25.3	15				
ADKT-K-R/L-2525-3-T22	●	●	25	25	150	25.3	22				
ADKT-K-R/L-3232-3-T10	●	●	32	32	170	32.3	10				
ADKT-K-R/L-3232-3-T22	●	●	32	32	170	32.3	22				
ADKT-K-R/L-2020-4-T10	●	●	20	20	125	20.4	10	AGD. - 4 MGM. - 4			
ADKT-K-R/L-2020-4-T20	●	●	20	20	125	20.4	20				
ADKT-K-R/L-2020-4-R25	●	○	20	20	125	20.4	25				
ADKT-K-R/L-2525-4-T10	●	●	25	25	150	25.4	10				
ADKT-K-R/L-2525-4-T18	●	●	25	25	150	25.4	18				
ADKT-K-R/L-2525-4-T22	●	●	25	25	150	25.4	22				
ADKT-K-R/L-3232-4-T10	●	●	32	32	170	32.4	10				
ADKT-K-R/L-3232-4-T22	●	●	32	32	170	32.4	22				
ADKT-K-R/L-2020-5-T20	●	●	20	20	125	20.5	20	AGD. - 5 MGM. - 5			
ADKT-K-R/L-2525-5-T15	●	●	25	25	150	25.5	15				
ADKT-K-R/L-2525-5-T18	●	●	25	25	150	25.5	18				
ADKT-K-R/L-2525-5-T25	●	●	25	25	150	25.5	25				
ADKT-K-R/L-3232-5-T15	●	●	32	32	170	32.5	15				
ADKT-K-R/L-3232-5-T25	●	●	32	32	170	32.5	25				
ADKT-K-R/L-2525-6-T15	●	●	25	25	150	25.6	15	AGD. - 6 MGM. - 6			
ADKT-K-R/L-2525-6-T25	●	●	25	25	150	25.6	25				
ADKT-K-R/L-3232-6-T25	●	●	32	32	170	32.6	25				
ADKT-K-R/L-3232-8-T32	●	●	32	32	170	32.8	32	AGD. - 8 / MGM. - 8			

R: Sağ / Right L: Sol / Left
● Stokta / In Stock ○ Stokta Yok / Non Stock Item

Sipariş Örneği/Ordering Example/Bestellbeispiel
1 ad./pcs. /stück ADKT-K-R-1212-1.5-T15

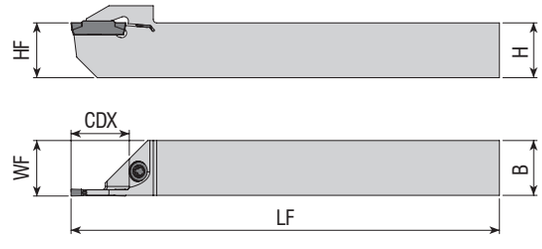


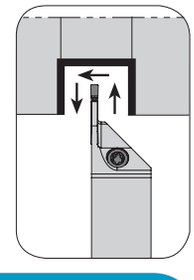




Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* R	Stok *Stock* L	Takım Ölçüleri (mm) *Dimension (mm)* HF=H	B	LF	WF	CDX	Kesici Uç *Insert*	Yedek Parçaları / *Spare Parts* Sıkma Vidası *Screw*	Pul *Stamp*	Anahtar *Allen Key*
ADKT-K-R/L-2020-3-T20-H	●	●	20	20	125	20.4	20	AGD. - 3 MGM. - 3	2004-M8x1x20	-	AAL-05-4
ADKT-K-R/L-2525-3-T22-H	●	●	25	25	150	25.4	22				
ADKT-K-R/L-2020-4-T20-H	●	●	20	20	125	20.4	20	AGD. - 4 MGM. - 4			
ADKT-K-R/L-2525-4-T22-H	●	●	25	25	150	25.4	22				
ADKT-K-R/L-2525-5-T25-H	●	●	25	25	150	25.5	25	AGD. - 5 / MGM. - 5			

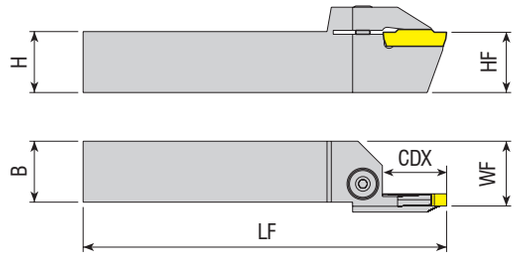
DIŞ ÇAP KANAL AÇMA İSVİÇRE TİPİ KAYAR OTOMAT MAKİNA TAKIMLARI
EXTERNAL GROOVING TOOLHOLDERS FOR SWISS TYPE SLIDING AUTOMATIC LATHES
WERKZEUGE ZUR STECHBEARBEITUNG AUF LANGDREHAUTOMATEN

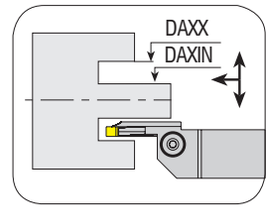




Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* R	Stok *Stock* L	Takım Ölçüleri (mm) *Dimension (mm)* HF=H	B	LF	WF	CDX	Kesici Uç *Insert*	Yedek Parçaları / *Spare Parts* Sıkma Vidası *Screw*	Pul *Stamp*	Anahtar *Allen Key*
ADKT-K-R/L-1212-2-R12-K-S	●	●	12	12	125	12.20	12	AGD. - 2 MGM. - 2	4015-M4x11	-	80-T15
ADKT-K-R/L-1616-2-R16-K-S	●	●	16	16	125	16.20	16				
ADKT-K-R/L-1212-3-R12-K-S	●	●	12	12	125	12.30	12	AGD. - 3 MGM. - 3			
ADKT-K-R/L-1616-3-R16-K-S	●	●	16	16	125	16.30	16				

Sipariş Örneği/Ordering Example/Bestellbeispiel
1 ad./pcs./stück ADKT-K-R/L-2020-3-T20-H

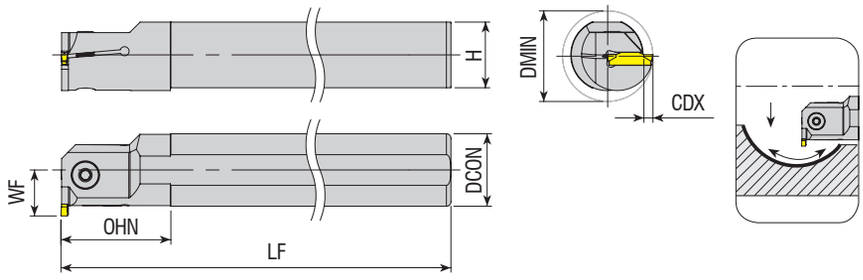




Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* R	Stok *Stock* L	Takım Ölçüleri (mm) *Dimension (mm)* HF=H	B	LF	WF	CDX	DAXIN	DAXX	Kesici Uç *Insert*	Yedek Parçaları / *Spare Parts* Sıkma Vidası *Screw*	Pul *Stamp*	Anahtar *Allen Key*
AAKT-K-R/L-2525-34-45-3-T17	●	●	25	25	150	26.5	17	34	45	AGD. - 3 MGM. - 3	2004-M8x1x20	-	AAL-05-4
AAKT-K-R/L-2525-39-55-3-T17	●	●	25	25	150	26.5	17	39	55				
AAKT-K-R/L-2525-49-80-3-T17	●	●	25	25	150	26.5	17	49	80				
AAKT-K-R/L-2525-70-110-3-T17	●	●	25	25	150	26.5	17	70	110				
AAKT-K-R/L-2525-100-150-3-T17	●	●	25	25	150	26.5	17	100	150				
AAKT-K-R/L-2525-80-180-3-T32	●	●	25	25	150	26.5	32	80	180				
AAKT-K-R/L-2525-175-215-3-T22	●	●	25	25	150	26.5	22	175	215				
AAKT-K-R/L-2525-700-800-3-T17	●	●	25	25	150	26.5	17	700	800				
AAKT-K-R/L-2525-50-85-4-T22	●	●	25	25	150	26.5	22	50	85	AGD. - 4 MGM. - 4			
AAKT-K-R/L-2525-70-110-4-T22	●	●	25	25	150	26.5	22	70	110				
AAKT-K-R/L-2525-100-150-4-T22	●	●	25	25	150	26.5	22	100	150				
AAKT-K-R/L-2525-80-180-4-T32	●	●	25	25	150	26.5	32	80	180				
AAKT-K-R/L-2525-180-800-4-T32	●	●	25	25	150	26.5	32	180	800				
AAKT-K-R/L-2525-70-110-5-T25	●	●	25	25	150	26.5	25	70	110	AGD. - 5 MGM. - 5			
AAKT-K-R/L-2525-100-150-5-T25	●	●	25	25	150	26.5	25	100	150				
AAKT-K-R/L-2525-80-180-5-T32	●	●	25	25	150	26.5	32	80	180				
AAKT-K-R/L-2525-140-200-5-T25	●	●	25	25	150	26.5	25	140	200				
AAKT-K-R/L-2525-180-800-5-T32	●	●	25	25	150	26.5	32	180	800				
AAKT-K-R/L-2525-60-100-6-T25	●	●	25	25	150	26.5	25	60	100	AGD. - 6 MGM. - 6			
AAKT-K-R/L-2525-60-100-6-T35	●	○	25	25	150	26.5	35	60	100				
AAKT-K-R/L-2525-100-200-6-T25	●	○	25	25	150	26.5	25	100	200				
AAKT-K-R/L-2525-100-200-6-T35	●	○	25	25	150	26.5	35	100	200				
AAKT-K-R/L-2525-100-200-6-T45	●	○	25	25	150	26.5	45	100	200				
AAKT-K-R/L-2525-140-300-6-T35	●	●	25	25	150	26.5	35	140	300				
AAKT-K-R/L-2525-140-300-8-T35	●	○	25	25	150	26.5	35	140	300	AGD. - 8 MGM. - 8			
AAKT-K-R/L-3232-140-350-8-T35	●	○	32	32	150	33.5	35	140	350				

R: Sağ / Right L: Sol / Left
● Stokta / In Stock ○ Stokta Yok / Non Stock Item

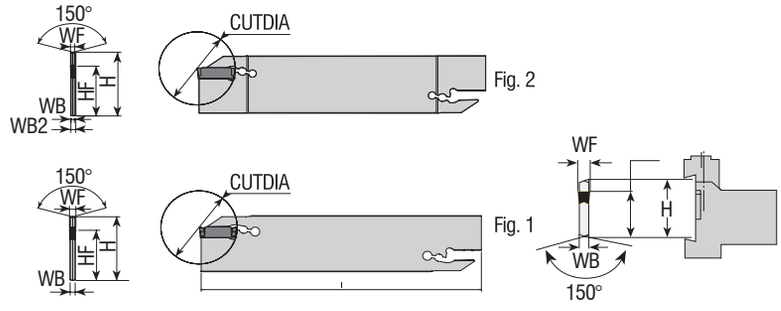
Sipariş Örneği/Ordering Example/Bestellbeispiel
1 ad./pcs./stück AAKT-K-R-2525-34-45-3-T17



Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock* R	Stok *Stock* L	Takım Ölçüleri (mm) *Dimension (mm)* DCON	DMIN	LF	OHN	CDX	H	WF	Kesici Uç *Insert*	Yedek Parçaları / *Spare Parts* Sıkma Vidası *Screw*	Anahtar *Allen Key*
AIKT-K-R/L-16-2-T4	●	●	16	21	150	28	4	14.8	12	AGD. - 2 MGM. - 2	2503-M4x10	AAL-03-3
AIKT-K-R/L-20-2-T4	●	●	20	25	170	30	4	18.3	14		2503-M4x12	
AIKT-K-R/L-25-2-T6	●	●	25	32	200	40	6	23	18.5		2504-M5x12	AAL-05-4
AIKT-K-R/L-20-3-T6	●	●	20	27	170	30	6	18.3	16	AGD. - 3 MGM. - 3	2504-M5x12	
AIKT-K-R/L-20-3-T7	●	●	20	25	170	38	7	18.3	13			
AIKT-K-R/L-25-3-T6	●	●	25	32	200	40	6	23	18.5		2504-M5x16	
AIKT-K-R/L-25-3-T10	●	●	25	32	200	48	10	23	17			
AIKT-K-R/L-32-3-T6	●	●	32	39	250	50	6	30	22		2004-M8x1x20	
AIKT-K-R/L-32-3-T12	●	●	32	39	250	53	12	30	22			
AIKT-K-R/L-40-3-T6	●	●	40	47	300	55	6	37.5	26			
AIKT-K-R/L-40-3-T12	●	○	40	48	300	63	12	37.5	27			
AIKT-K-R/L-20-4-T6	●	●	20	27	170	30	6	18.3	16	AGD. - 4 MGM. - 4	2504-M5x12	
AIKT-K-R/L-20-4-T7	●	○	20	25	170	38	7	18.3	13			
AIKT-K-R/L-25-4-T6	●	●	25	32	200	40	6	23	18.5		2504-M5x16	
AIKT-K-R/L-25-4-T10	●	●	25	32	200	49	10	23	17			
AIKT-K-R/L-32-4-T6	●	●	32	39	250	50	6	30	22		2004-M8x1x20	
AIKT-K-R/L-32-4-T12	●	●	32	39	250	53	12	30	22			
AIKT-K-R/L-40-4-T6	●	●	40	47	300	55	6	37.5	26			
AIKT-K-R/L-40-4-T12	●	●	40	48	300	63	12	37.5	27			
AIKT-K-R/L-25-5-T7	●	●	25	33	200	40	7	23	19.5	AGD. - 5 MGM. - 5	2504-M5x16	
AIKT-K-R/L-32-5-T7	●	●	32	40	250	50	7	30	23		2004-M8x1x20	
AIKT-K-R/L-40-5-T7	●	●	40	48	300	55	7	37.5	27			
AIKT-K-R/L-40-5-T12	●	○	40	48	300	63	12	37.5	27			

R: Sağ / Right L: Sol / Left
● Stokta / In Stock ○ Stokta Yok / Non Stock Item

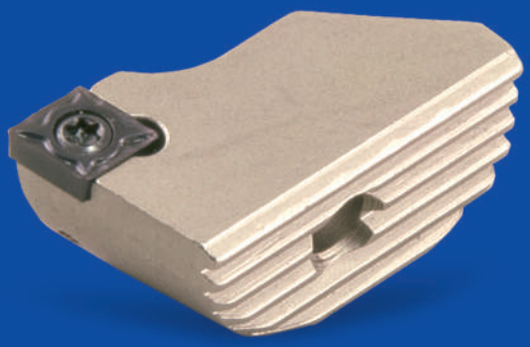
Sipariş Örneği/Ordering Example/Bestellbeispiel
1 ad./pcs./stück. AIKT-K-R-16-2-T4



Takım Kodu *Ordering Code* *Bestell-Bezeichnung*	Stok *Stock*	Takım Ölçüleri (mm) *Dimension (mm)*							Kesici Uç *Insert*	Yedek Parçaları / *Spare Parts* Anahtar *Allen Key*
		H	WF	WB2	WB	I	HF	CUTDIA		
AKL-K-32-2	●	32	2	2.4	1.6	150	25	32	**AGD. - 2 / MGM. - 2**	ALA-02
AKL-K-32-3	●	32	3	2.4	-	150	25	42	**AGD. - 3 / MGM. - 3**	
AKL-K-32-4	●	32	4	3.2	-	150	25	42	**AGD. - 4 / MGM. - 4**	

BARALAR

AYARLI DELİK İŞLEME BARALARI
ADJUSTABLE BORING HEADS
EINSTELLBARE SPINDELKÖPFE



AKKO						
A	BH	R	-	D18x22		
1	2	3		4		
W16	-	L90	-	CC06		
5		6		7		

2 Kesiş Stili / *Cutter Style* / *Werkzeugtyp*

BH : Delik İşleme / *Boring Head*
Spindelkopf

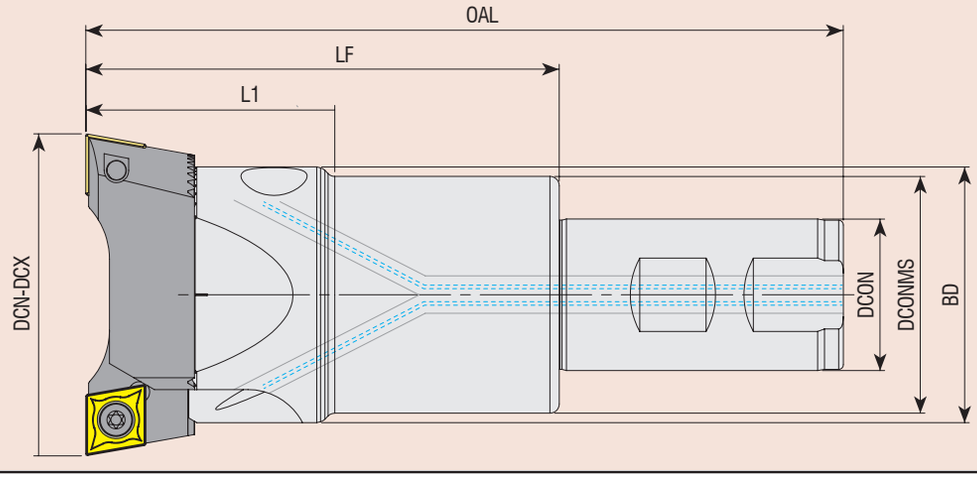
3 İşlem Tipi / *Cutter Type* / *Einsatzgebiet*

R : Kaba Baralama / *Rough Boring*
Schruppbearbeitung
F : Hassas Baralama / *Fine Boring*
Schlichtbearbeitung

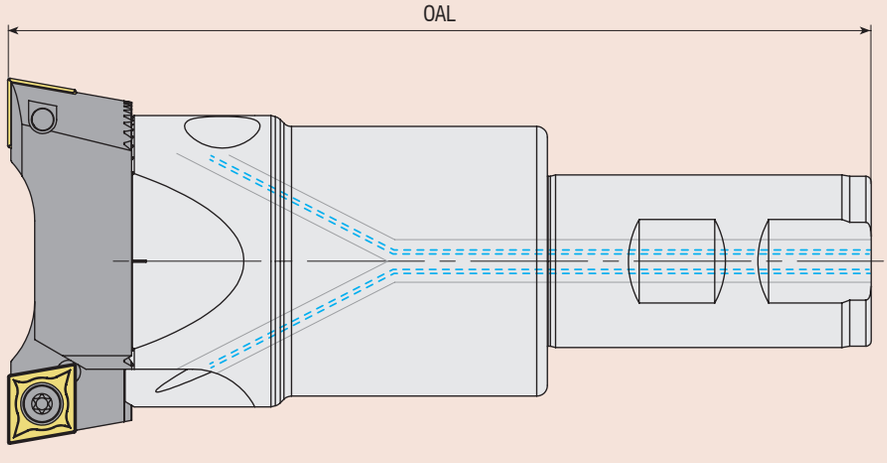
5 Montaj Formu / *Asembly Form* / *Schaftform*

W : Weldon

4 Ölçü Aralığı / *Boring Range* / *Bohrbereich*

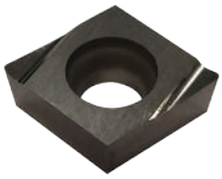


6 Takım Boyu / *Tool Length* / *Werkzeuglänge*



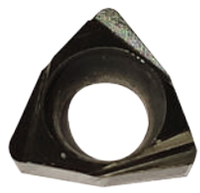
7 Kesici Uç / *Insert* / *Wendeschneidplatte*

CC06 : CC.. 0602..
CC09 : CC.. 09T3..
CC12 : CC.. 1204..



EDP	AÇIKLAMA / DESCRIPTION	KESME HIZI / CUTTING SPEED Vc=m/min	İLERLEME / FEED fn=mm/rev
T.01.08.03.01	CCGT 09T302L-AC1020	100-200	0.15~0.3
T.01.08.03.02	CCGT 09T304L-AC1020	100-200	0.2~0.4

EDP	AÇIKLAMA / DESCRIPTION	KESME HIZI / CUTTING SPEED Vc=m/min	İLERLEME / FEED fn=mm/rev
T.01.08.03.01	TPGH 09T0202L-AC1020	100-200	0.15~0.3
T.01.08.03.02	TPGH 09T0204L-AC1020	100-200	0.2~0.4



EDP	AÇIKLAMA / DESCRIPTION	KESME HIZI / CUTTING SPEED Vc=m/min	İLERLEME / FEED fn=mm/rev
T.01.08.03.01	WCGT 020102L-AC1020	100-200	0.05~0.2
T.01.08.03.02	WCGT 020104L-AC1020	100-200	0.08~0.3

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