



# AKKO®

Değiştirilebilir Uçlu Takımlar, Takım Tutucu Sistemler ve Kesici Uçlar  
Indexable Tools, Tool Holder Systems and Cutting Inserts  
Zerspanungswerkzeuge, Werkzeugaufnahmen und Zerspanungswerkzeuge



# AHB

**TOOLING & MACHINERY**

**COMPLETE METALWORKING SOLUTIONS**

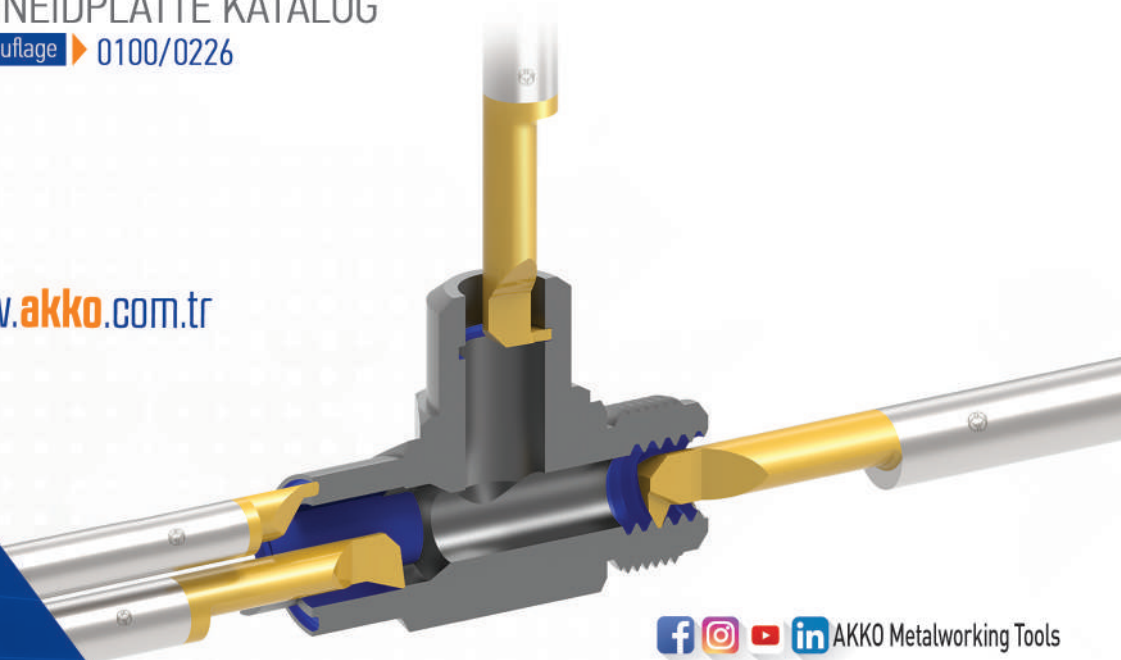
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ISO Certified

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customerservice@ahbinc.com

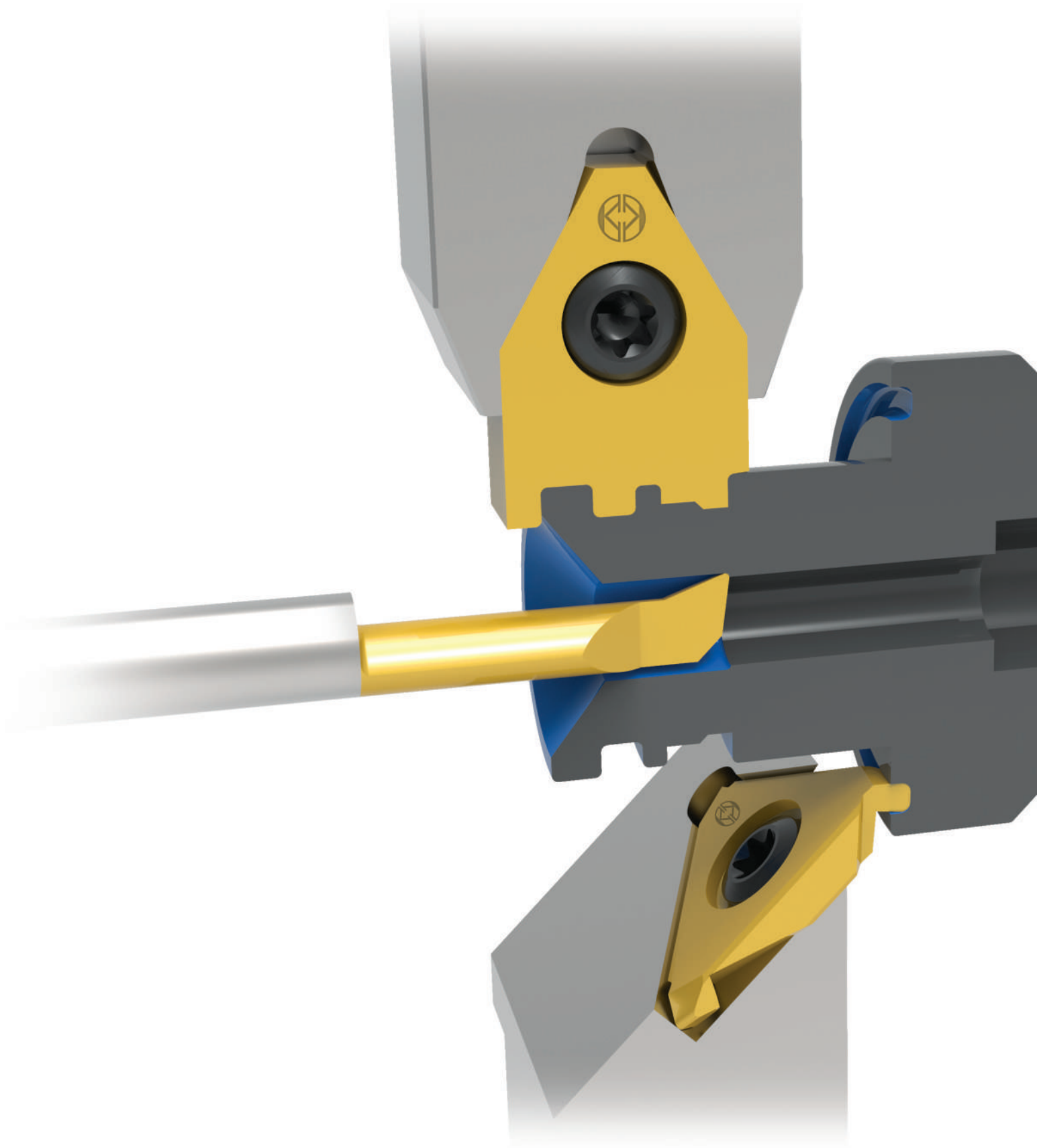
**KESİCİ UÇ KATALOĞU**  
**INSERT CATALOGUE**  
**WENDESCHNEIDPLATTE KATALOG**  
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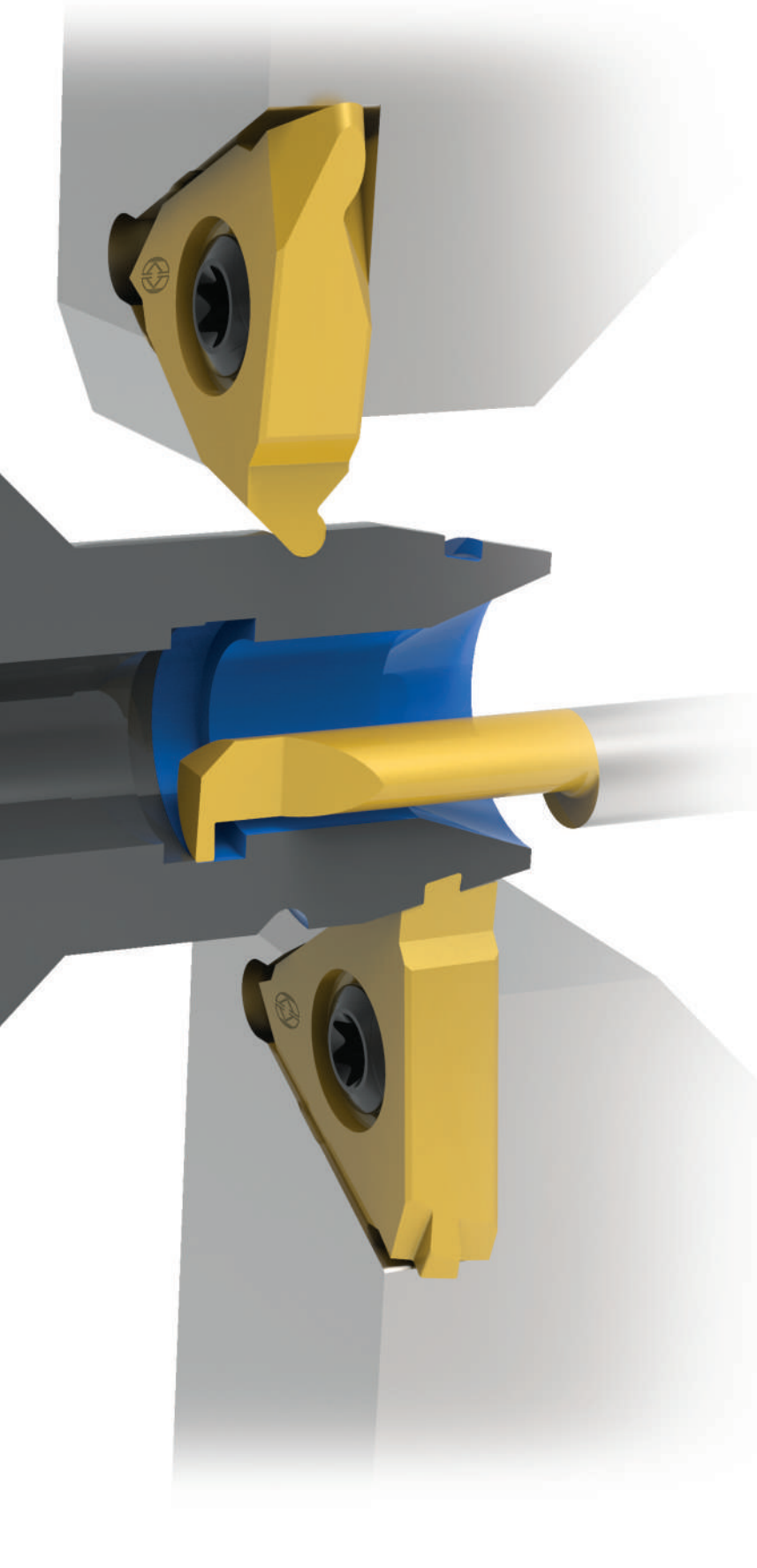


[www.akko.com.tr](http://www.akko.com.tr)



    AKKO Metalworking Tools





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 40.000m<sup>2</sup>'ye yakın bir alanda Türkiye, Japonya, Almanya, İsviçre gibi ülkelerin ürettikleri son teknoloji tezgah ve ekipmanlarıyla yıllık 750.000 adet üretim kapasitesiyle, standart 14.000 çeşit takım üretimi ve 400.000 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, ısıtma işlemi, üzerindeki kaplama ve her türlü üretim operasyonları bir entegre tesis olan AKKO'da yapılmaktadır.

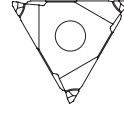
We as AKKO Makina Sanayi ve Ticaret A.Ş. which were founded by Abdullah KARAKUŞ in 1986, produce Turning Tool Holders, Threading and Grooving Tool Holders, U-Drills, Milling Tool Holders, Precision Tool Holders (OEM Tool Holders) on-demand, Monoblocks and Holders, and Profile Inserts. We produce a standard 14.000 kinds of tool holders with a production capacity of 750.000 pieces and 400.000 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 14.000 Standard Arten der Werkzeughalter mit einer Produktionskapazität von 750.000 Stücken und 400.000 Stück Spezialprofileinlagen per annum 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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ÇİFT KANALLI POLY-V UÇLARI VE TAKIMLARI  
ÇOK KANALLI POLY-V UÇLARI VE TAKIMLARI



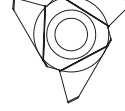
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#### KANAL AÇMA, YÜZEY KANAL AÇMA UÇLARI VE TAKIMLARI

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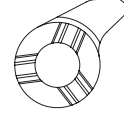


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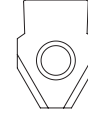
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#### WHIRLING UÇLARI VE TAKIMLARI

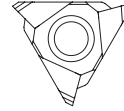
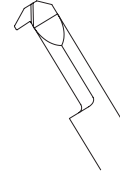
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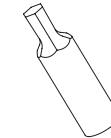
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DELİK İÇİ MİNİ CUT TAKIMLAR  
TERS TÖRNALAMA MİNİ CUT TAKIMLAR  
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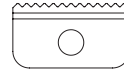
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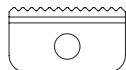
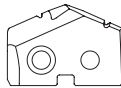
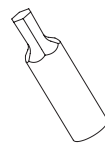
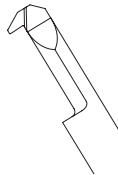
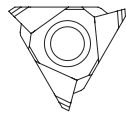
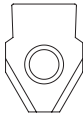
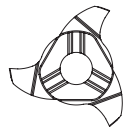
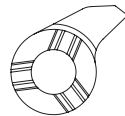
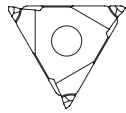
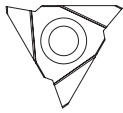
#### ISO UÇLAR

WCMX/SPMX UÇLAR  
KESME VE KANAL AÇMA UÇLARI  
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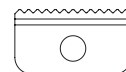
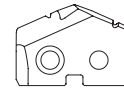
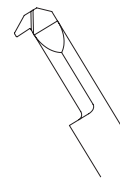
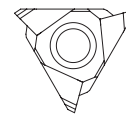
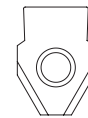
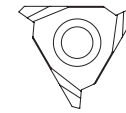
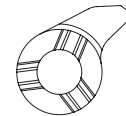
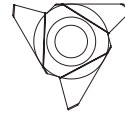
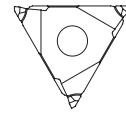
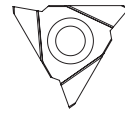
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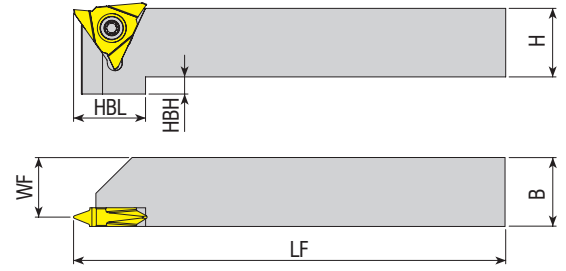


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**qualität über die man spricht...**

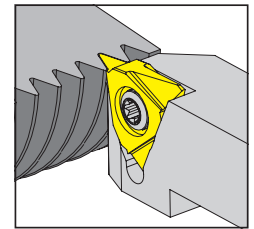
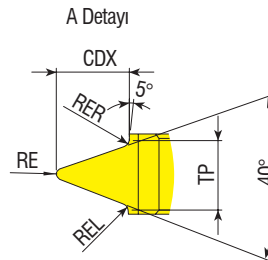
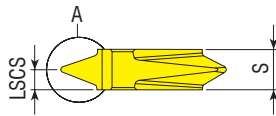
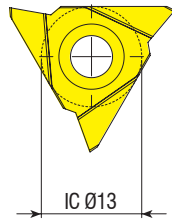
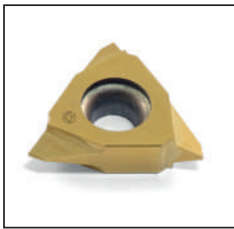
# POLY-V

**KAYIŞ KASNAK KANAL AÇMA UÇLARI VE TAKIMLARI**  
*POLY-V BELT PULLEY GROOVING INSERTS AND TOOLHOLDERS*  
*WENDESCHNEIDPLATTEN UND WERKZEUGE FÜR*  
*POLY-V RIEMENSCHLEIBEN*





Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschnidplatte	Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel	
	R	L	H	B	WF	LF	HBL	HBH			
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	-	-			



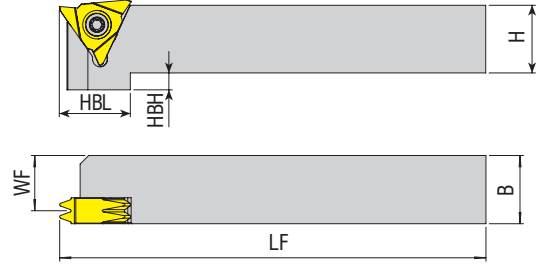
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager		Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							Kalite Grade Sorte
	R	L	DIN/ISO KODU	TP	S	RE	RER / REL	LSCS	CDX	
T12.10.0234.PJ.R/L	●	●	PJ	2.34	5.20	0.36	0.24	2.60	2.08	VK20F01
T12.10.0356.PK.R/L	●	●	PK	3.56	5.20	0.44	0.35	2.60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

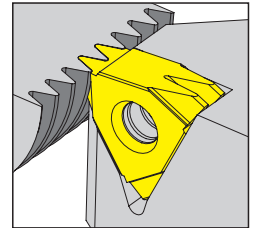
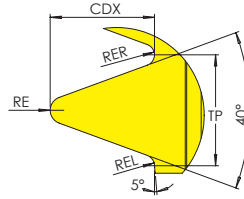
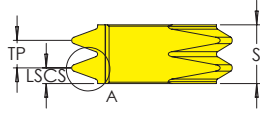
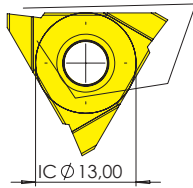
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage  
P.. Tipi katerler ile kullanınız. / Use with ADKT-T12P.. Type toolholder. / Einsatz mit ADKT-T12P...-Werkzeughalter  
İndekslediğinde boy  $\pm 0,02$ mm / Indexability length  $\pm 0,02$ mm / Wiederholgenauigkeit Länge  $\pm 0,02$  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.

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



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschnidplatte	Yedek Parçaları / Spare Parts / Ersatzteile		
	R	L	H	B	WF	LF	HBL		HBH	Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
ADKT-T12P-R-1616-2.34	●	●	16	16	12.2	125	20	5	T12...	1020xM5 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...	1020xM4.5 X14	80-T20
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	-	-			



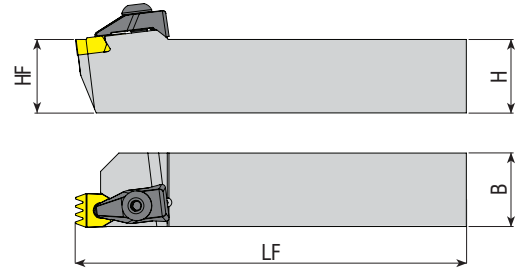
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							Kalite Grade Sorte
		DIN/ISO KODU	TP	S	RER/REL	RE	LSCS	CDX	
T12.07.0234.PJ.x2	●	PJ	2.34	5.20	0.24	0.36	1.48	2.08	VK20F01
T30.07.0356.PK.x2	●	PK	3.56	7.60	0.35	0.45	2.60	3.40	VK20F01

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

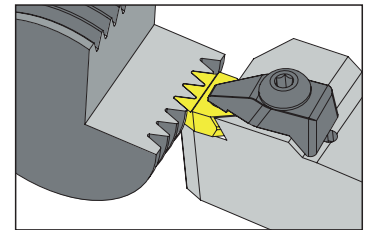
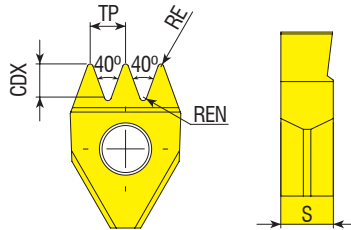
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück ADKT-T12P-R-1616-2.34



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



Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)						Kalite Grade Sorte
		DIN/ISO KODU	TP	S	RE	REN	CDX	
<b>NEW</b> 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**



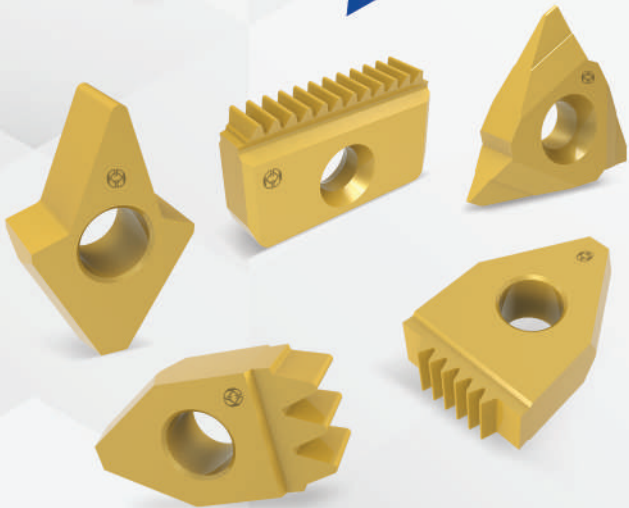
**AKKO®**  
**PM Kasnak Çözümleri**  
**PM Pulley Solutions** **PM Reimenscheiben Lösungen**

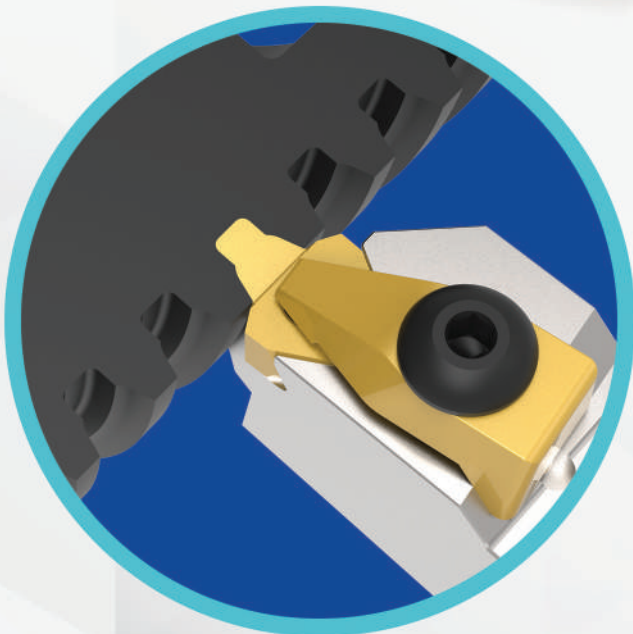
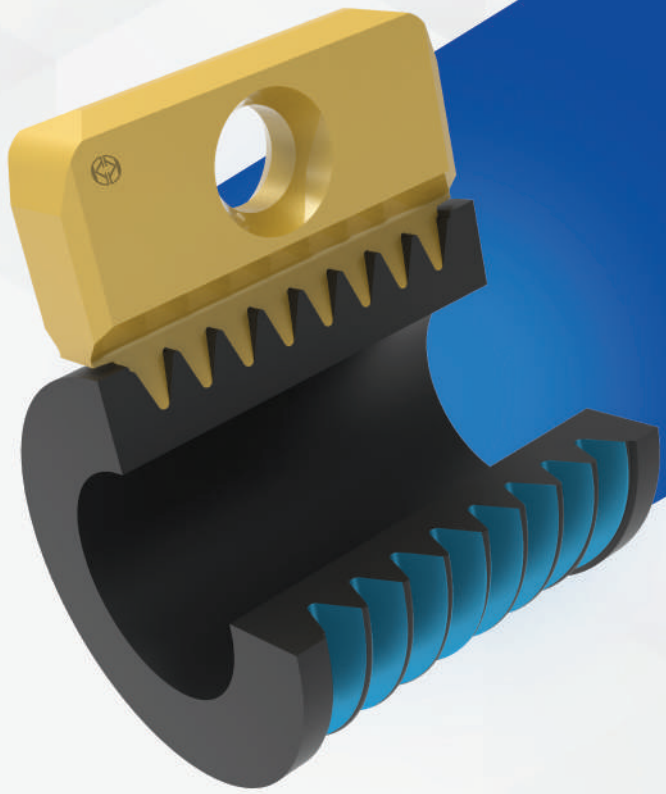
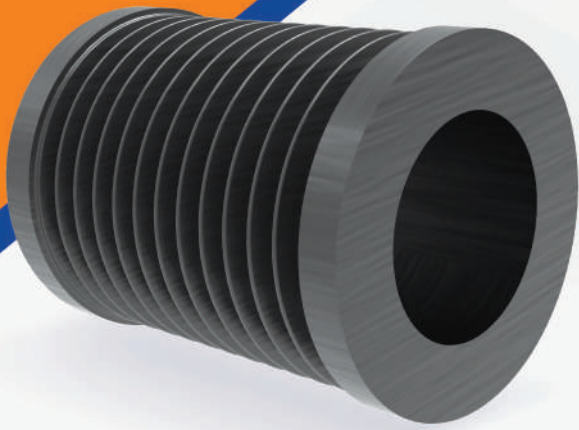


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**PH Kasnak Çözümleri**  
**PH Pulley Solutions** **PH Reimenscheiben Lösungen**



**AKKO®**  
**PK Kasnak Çözümleri**  
**PK Pulley Solutions** **PK Reimenscheiben Lösungen**





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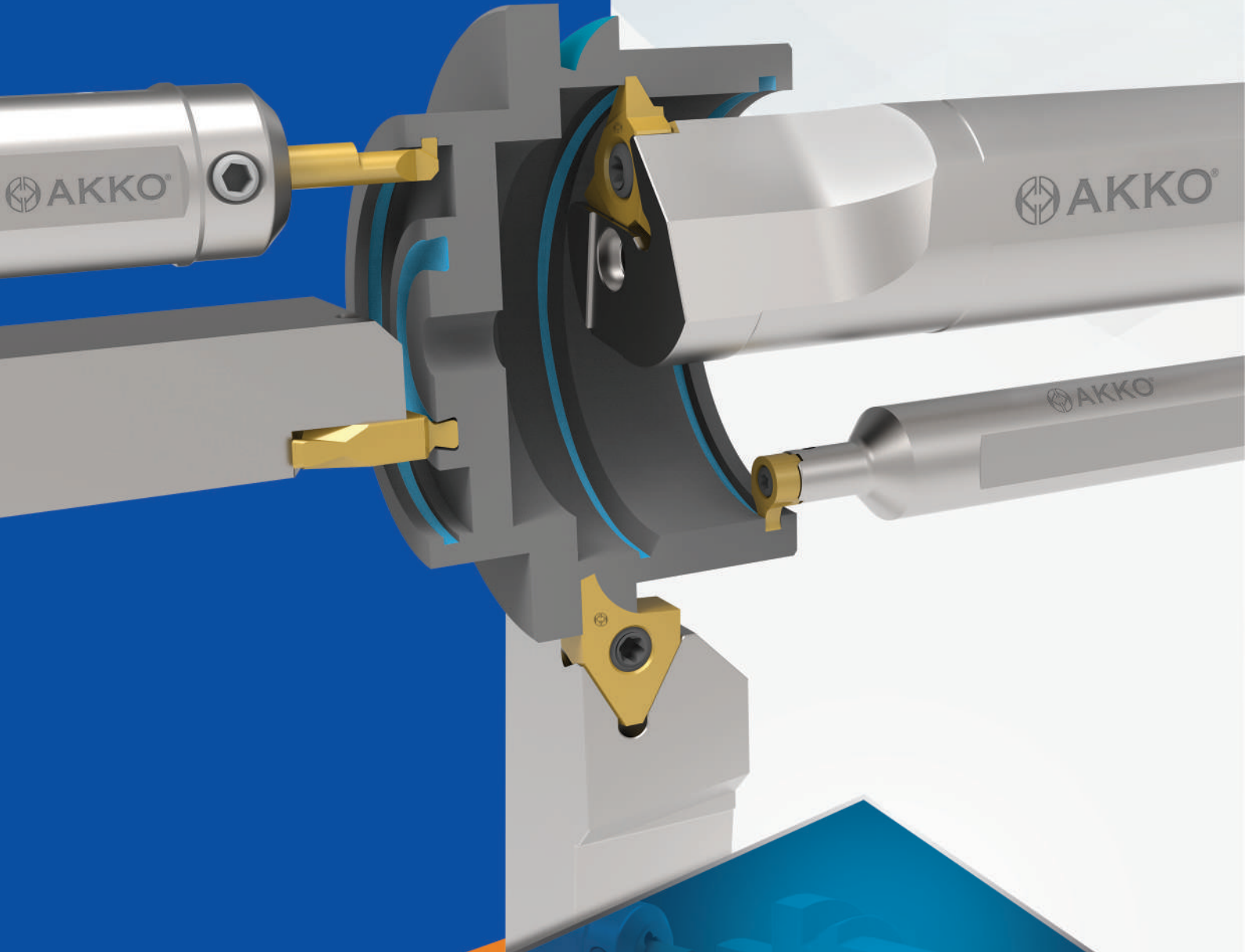
[www.akkо.com.tr](http://www.akkо.com.tr)

# KANAL AÇMA / GROOVING / STECHHALTER

KANAL AÇMA, KÖŞE BOŞALTMA UÇLARI ve TAKIMLARI

FOR GROOVING AND CORNER RELIEFS

WENDESCHNEIDPLATTEN UND WERKZEUGE FÜR AXIAL FREISTICHE

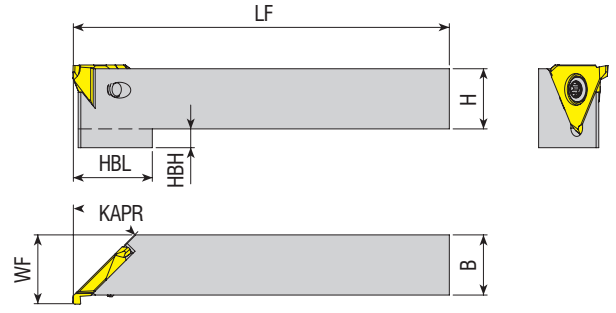


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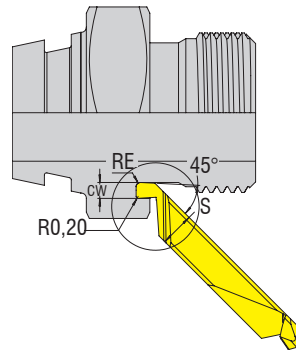
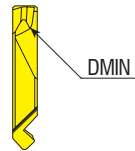
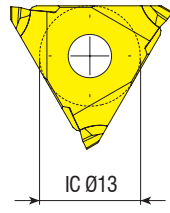
Yenilikler için bizi takip edin.

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Für Neuheiten bitte uns folgen.



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendescheidplatte	Yedek Parçaları / Spare Parts / Ersatzteile		
	R	L	H	B	WF	LF	HBL	HBH		KAPR	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°			

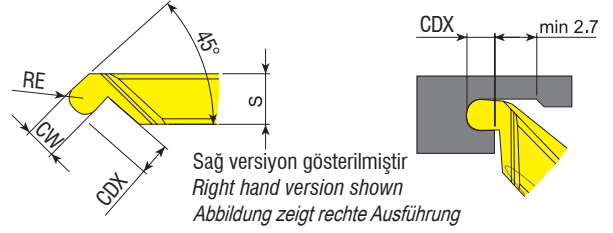
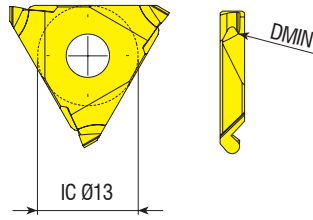
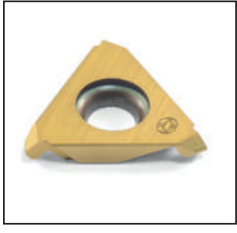


Sağ versiyon gösterilmiştir  
 Right hand version shown  
 Abbildung zeigt rechte Ausführung

Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager		Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)					Kalite Grade Sorte	Minimum Çap Ø Minimum Diameter Ø Kleinsten Durchmesser ø	Kanal Derinliği Depth of Groove Up to Stechtiefe bis zu	Kanal Genişliği Width of Groove Stechbreite
	R	L	CW	S	RE	CDX	DMIN				
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  
 İndekslenildiğinde 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



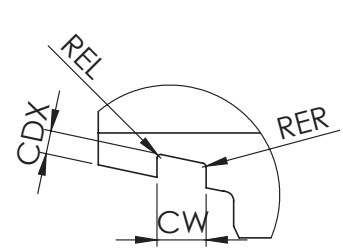
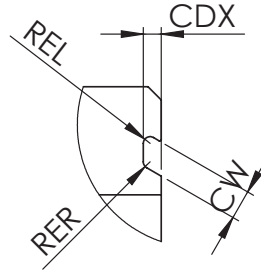
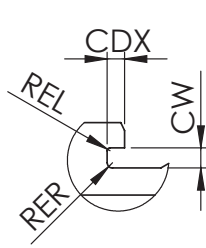
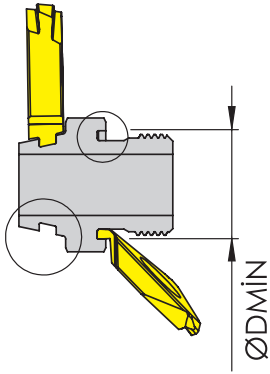
Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager		Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)					Kalite Grade Sorte	Minimum Çap Ø Minimum Diameter Ø Kleinstes Durchmesser ø	Kanal Derinliği Depth of Groove Up to Stechtiefe bis zu	Kanal Genişliği Width of Groove Stechbreite
	R	L	CW	S	RE	CDX	DMIN				
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  
 İndekslediğinde boy  $\pm 0.02\text{mm}$  / Indexability length  $\pm 0.02\text{mm}$  / Wiederholgenauigkeit Länge  $\pm 0,02\text{ mm}$

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



ÖZEL KANAL UCU BİLGİ ALMA FORMU  
 INFORMATION FORM FOR SPECIAL GROOVING INSERTS  
 INFORMATIONSFORM FÜR SONDER WENDESCHNEIDPLATTEN

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

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

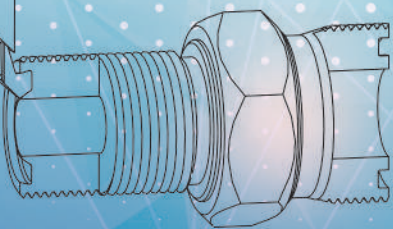
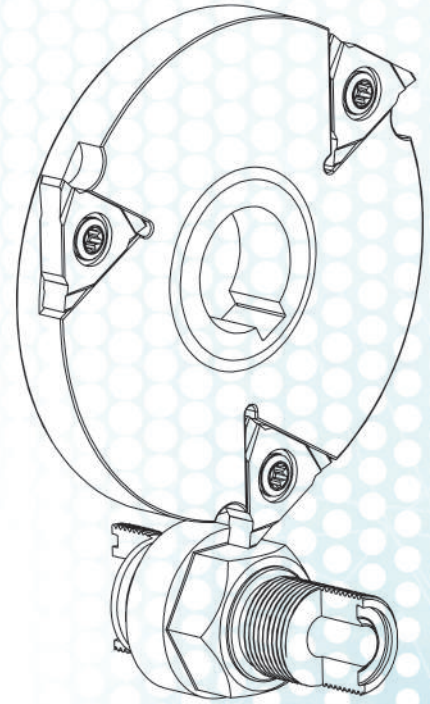
export@akko.com.tr adresine teknik resim göndermeniz halinde iş parçanıza özel tasarımlar yapılabilir. / If you send a technical drawing to vexport@akko.com.tr special designs can be made for your workpiece. / Bei Einreichung von der technischne Zeichnung an export@akko.com.tr können auch Werkzeug spezifische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

**POLYGON FREZELEME**

**POLYGON MILLING**

WERKZEUGE FÜR POLYGON

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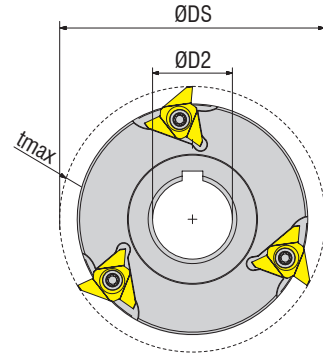
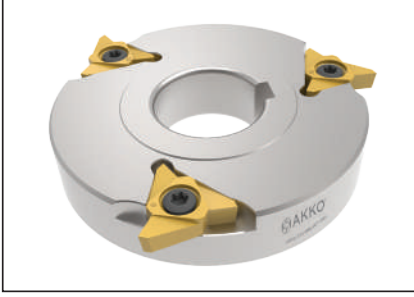


**KANAL AÇMA**

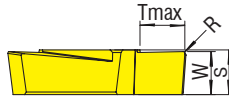
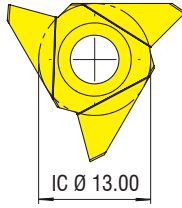
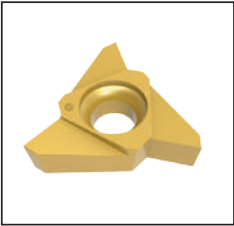
**GROOVING**

EINSTECHBOHRUNG

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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		
	R	L	ØDS	ØD2	ZEFP	H		Tmax	Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
APTR/L-T12-D90-D27-Z02	○	○	90	27	2	16.20	5			
APTR/L-T12-D90-D27-Z03	○	○	90	27	3	16.20	5	T12..	1020.M5X11	80-T20

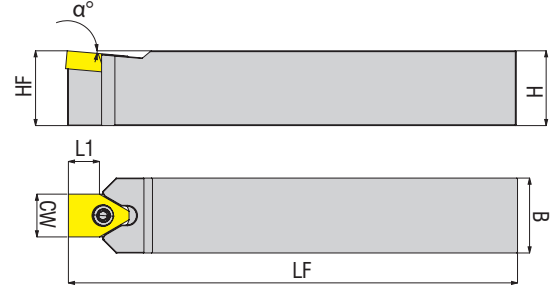
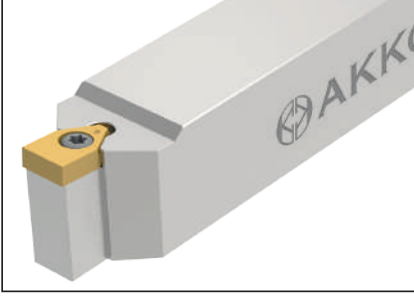


Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)						Kalite Grade Sorte
		W	Tmax	R	K	S	ZEFP	
T12.15.0500.05.020 R/L	○	5	5	0.2	5°	5.2	3	VK20F01

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



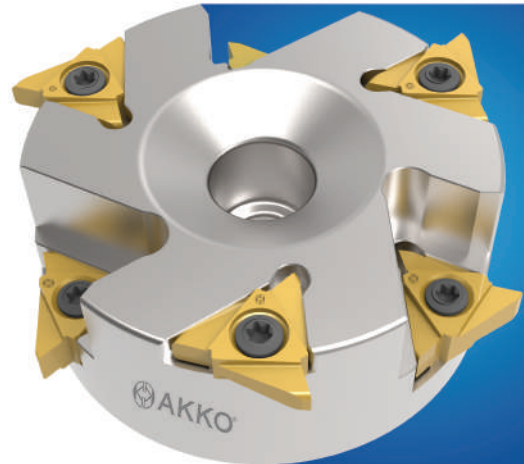
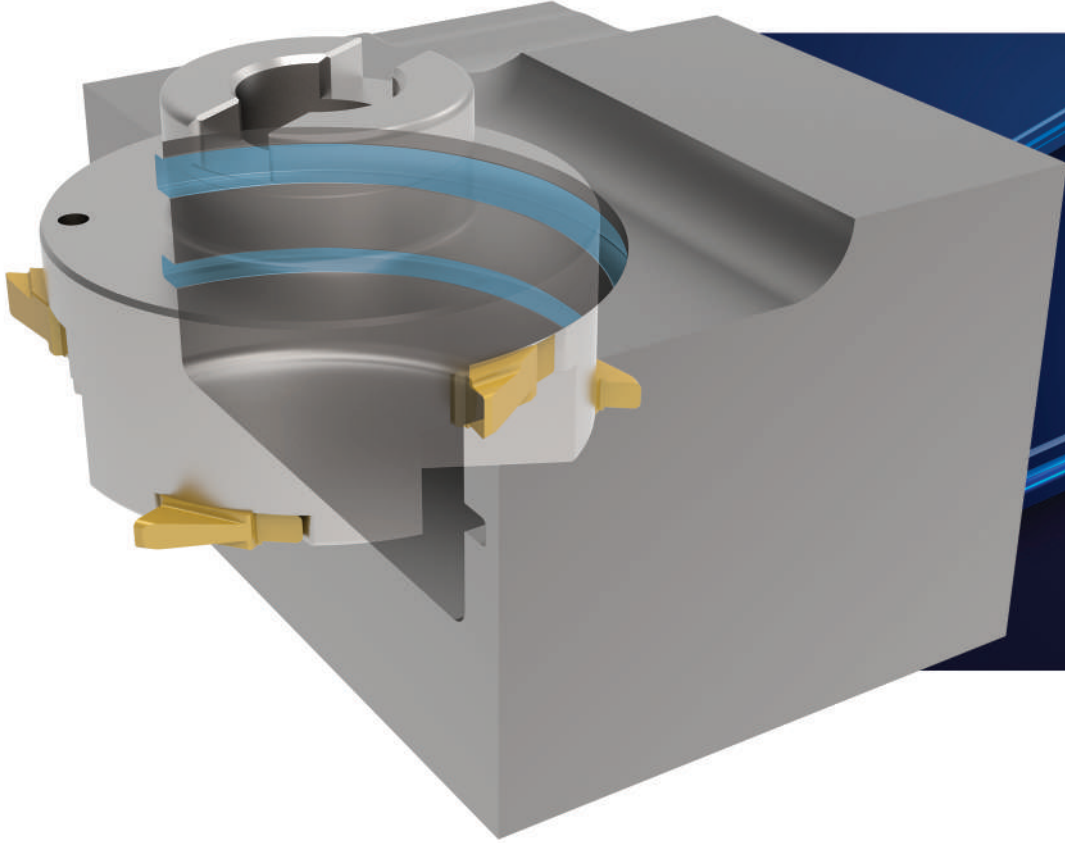
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)							Yedek Parçaları / Spare Parts / Ersatzteile	
		H	B	LF	HF	L1	$\alpha$	CW	Kesici Uç Insert Wendeschneidplatte	Sıkma Vidası Screw Schraube
ADKT-B41-1616-L125	○	16	16	125	16	8	5°	10	B41.00.0400	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

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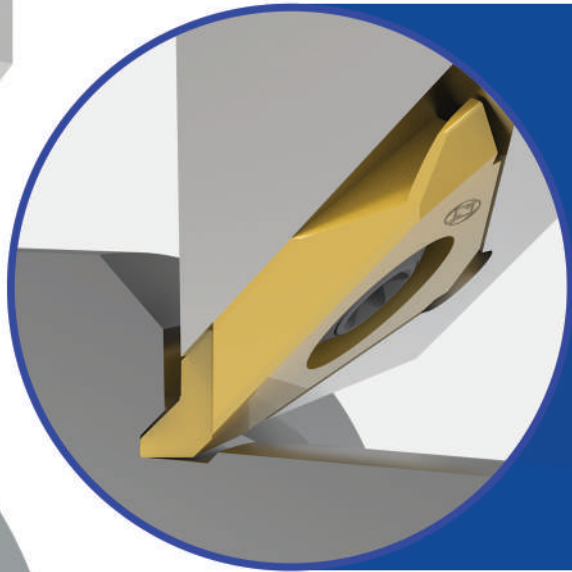


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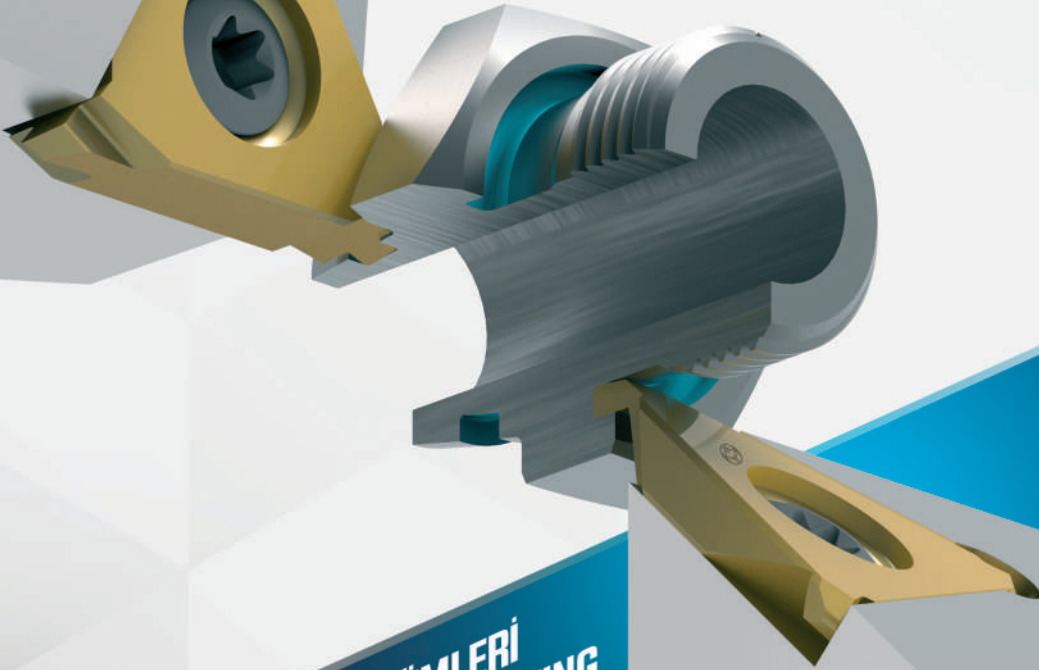
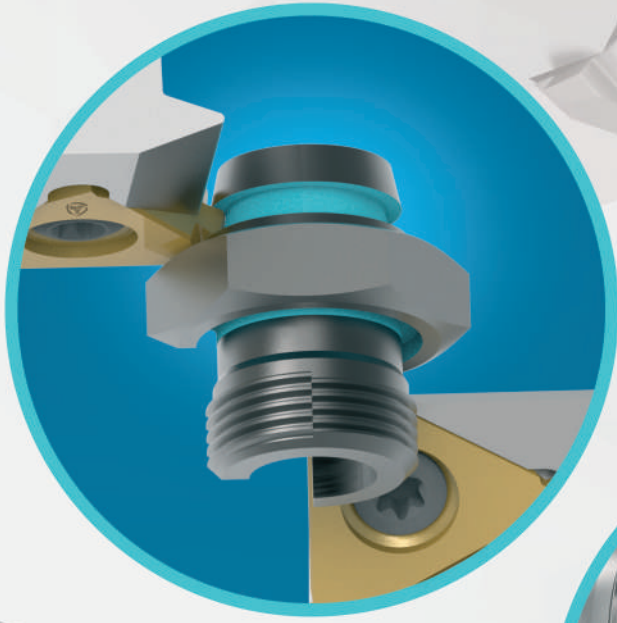


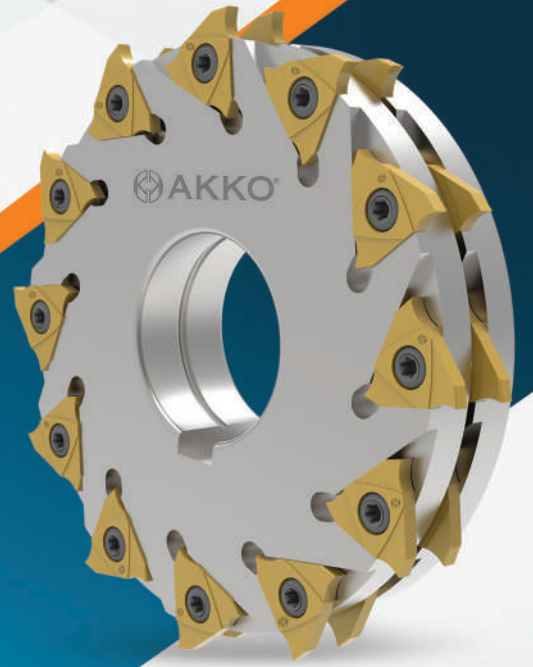
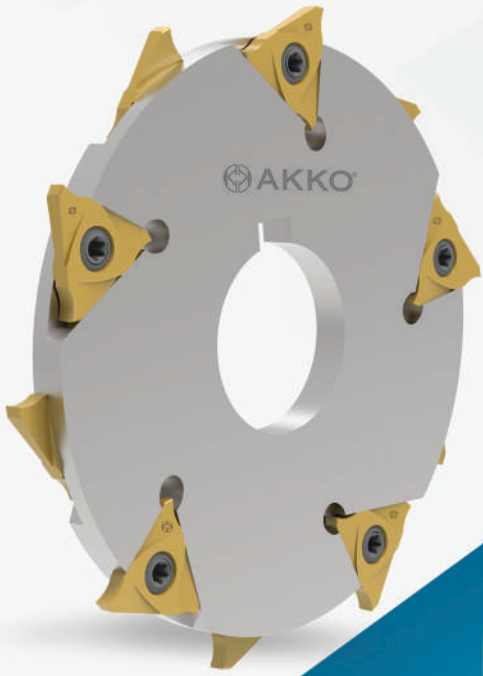
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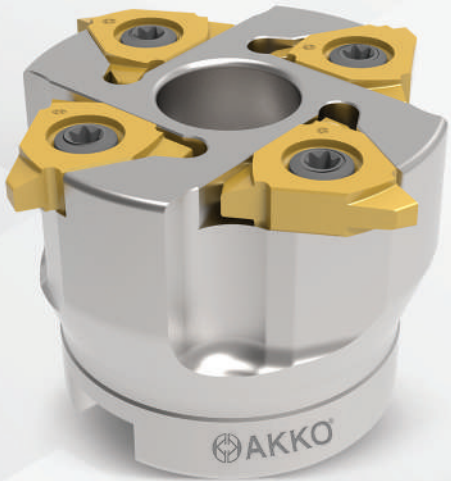
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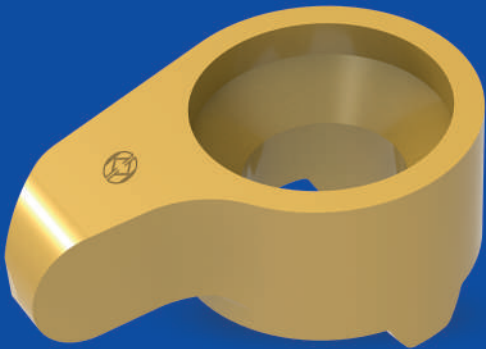
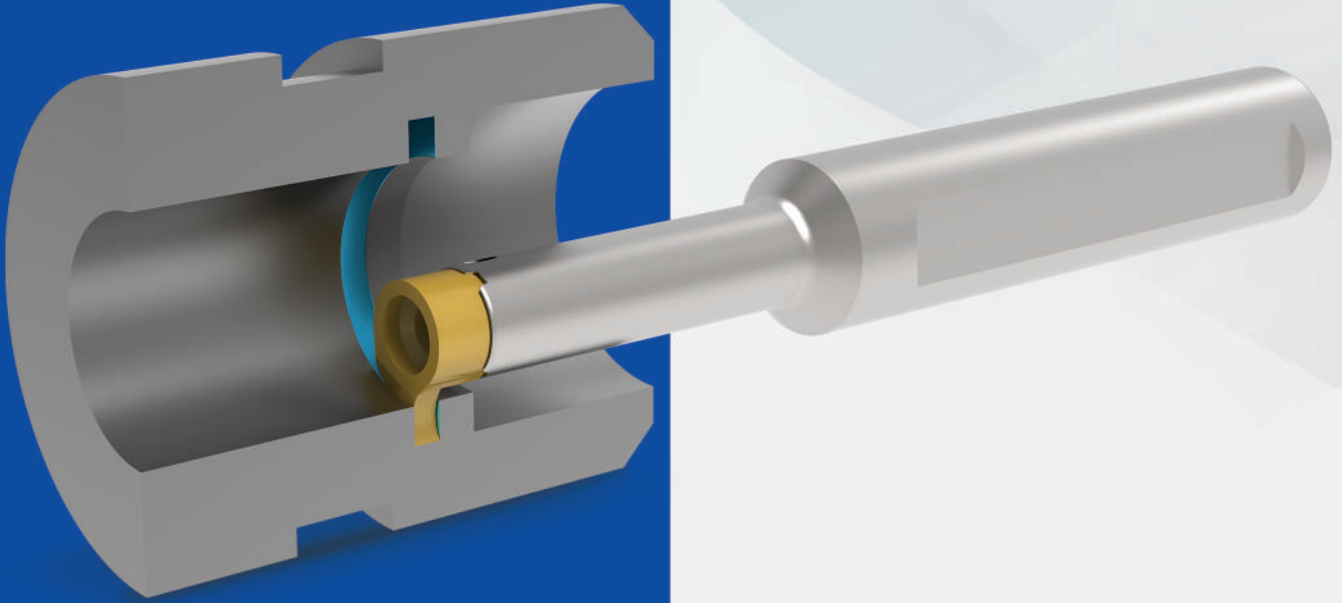


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NUTEN  
SPEZIELLE  
LÖSUNGEN



# MICO CUT UÇLARI ve TAKIMLAR

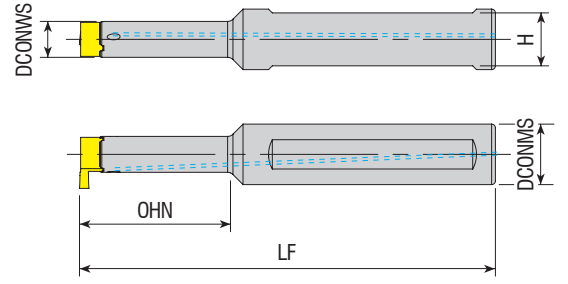
MICO CUT INSERTS and TOOLS  
MICO CUT WENDESCHIEDPLATTEN WERKZEUGE



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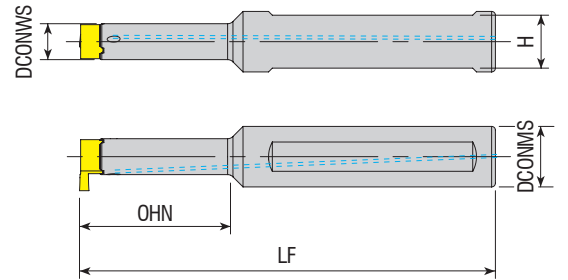
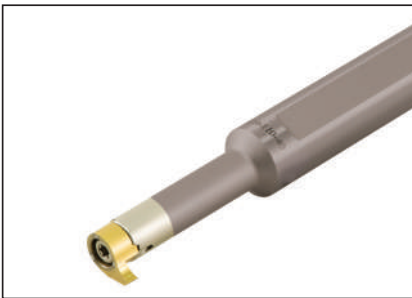
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ÇELİK ŞAFT  
STEEL SHAFT  
STAHSCHÄFTE



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		
		DCONMS	DCONWS	LF	OHN	H	Dm		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel	
A12G-MC08-015	○	12	8	90	15	11	13.4	MC08	4015xM4X11	80-T15	
A12G-MC08-022	○	12	8	90	22	11	13.4				
A12G-MC11-019	○	12	11	90	19	15	20.4	MC11	1020-M5X14	80-T20	
A16H-MC11-028	○	16	11	100	28	15	20.4				
A16J-MC11-040	○	16	11	110	40	15	20.4				

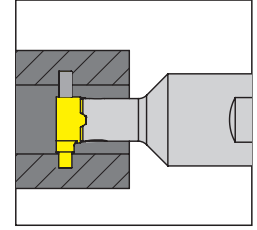
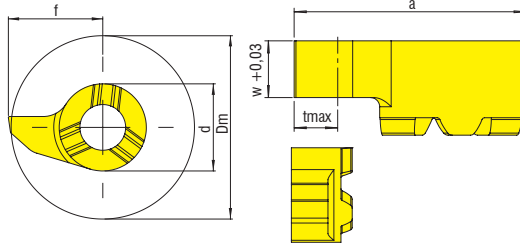
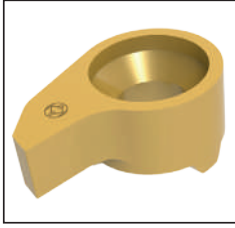
KARBÜR ŞAFT  
CARBIDE SHAFT  
HARTMETALLSCHAFT



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		
		DCONMS	DCONWS	LF	OHN	H	Dm		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel	
E12J-MC08-042	○	12	8	110	42	11	13.4	MC08	4015xM4X11	80-T15	
E12K-MC08-056	○	12	8	120	56	11	13.4				
E12J-MC11-040	○	12	11	130	40	15	20.4	MC11	1020-M5X14	80-T20	
E16K-MC11-056	○	16	11	130	56	15	20.4				
E16K-MC11-080	○	16	11	150	80	15	20.4				

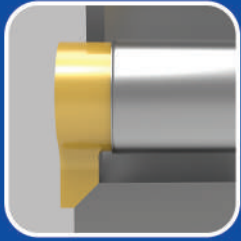
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

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

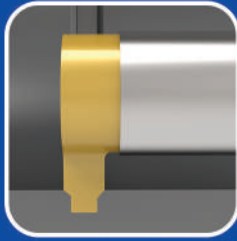


Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
		W	R	a	d	f	tmax	Dm		
MC08.G.0100.010.01340	○	1.0	0.10	10.7	8.0	6.7	2.3	13.4	...-MC08-...	VP3001
MC08.G.0150.015.01340	○	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

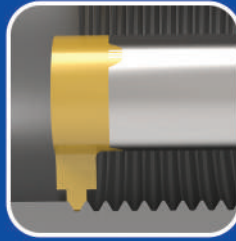
### DIĞER PROFİL ÇEŞİTLERİ / THE OTHER PROFILE TYPES / ANDERE PROFIL-TYPEN



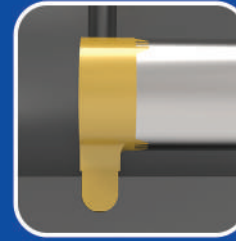
CHAMFER PROFILE



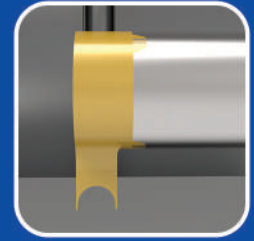
CIRCLIP PROFILE



THREAD PROFILE

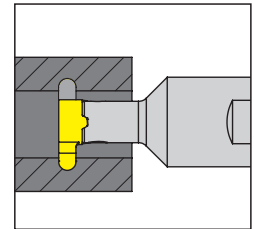
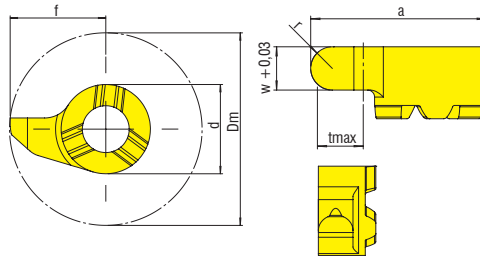
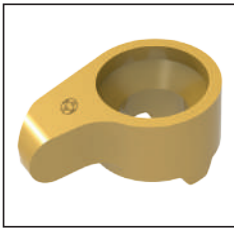


RADIUS GROVE PROFILE



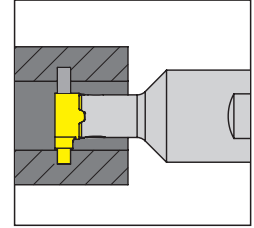
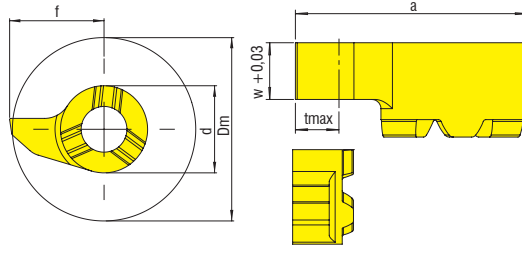
SPECIAL PROFILE

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



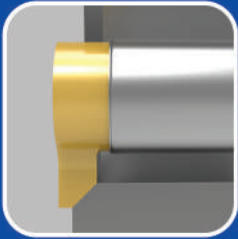
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
		W	R	a	d	f	tmax	Dm		
MC08.GR.0080.040.01340	○	0.8	0.4	10.7	8	6.7	2.3	13.4	....-MC08-...	VP3001
MC08.GR.0120.060.01340	○	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

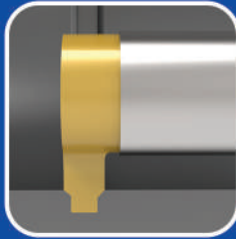


Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
		W	R	a	d	f	tmax	Dm		
MC11.G.0100.010.02040	○	1.0	0.1	15.7	11	10.2	4.3	20.4	...-MC11-...	VP3001
MC11.G.0150.015.02040	○	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

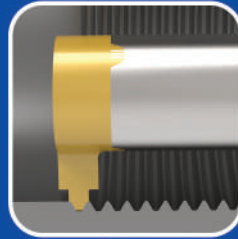
### DIĞER PROFİL ÇEŞİTLERİ / THE OTHER PROFILE TYPES / ANDERE PROFIL-TYPEN



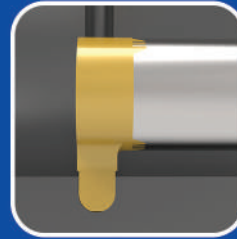
CHAMFER PROFILE



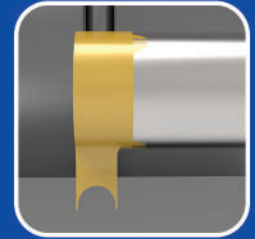
CIRCLIP PROFILE



THREAD PROFILE

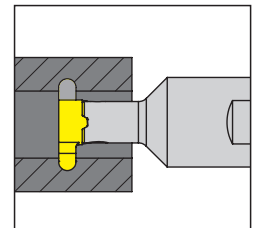
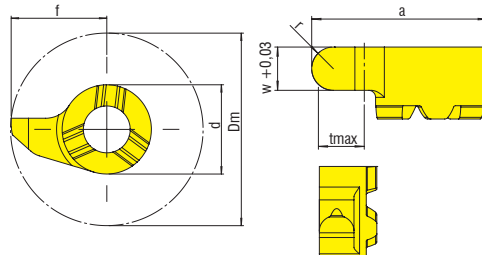


RADIUS GROVE PROFILE



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 Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
		W	R	a	d	f	tmax	Dm		
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

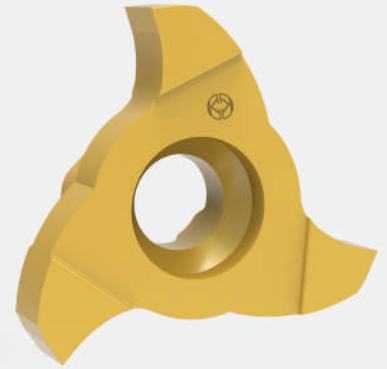
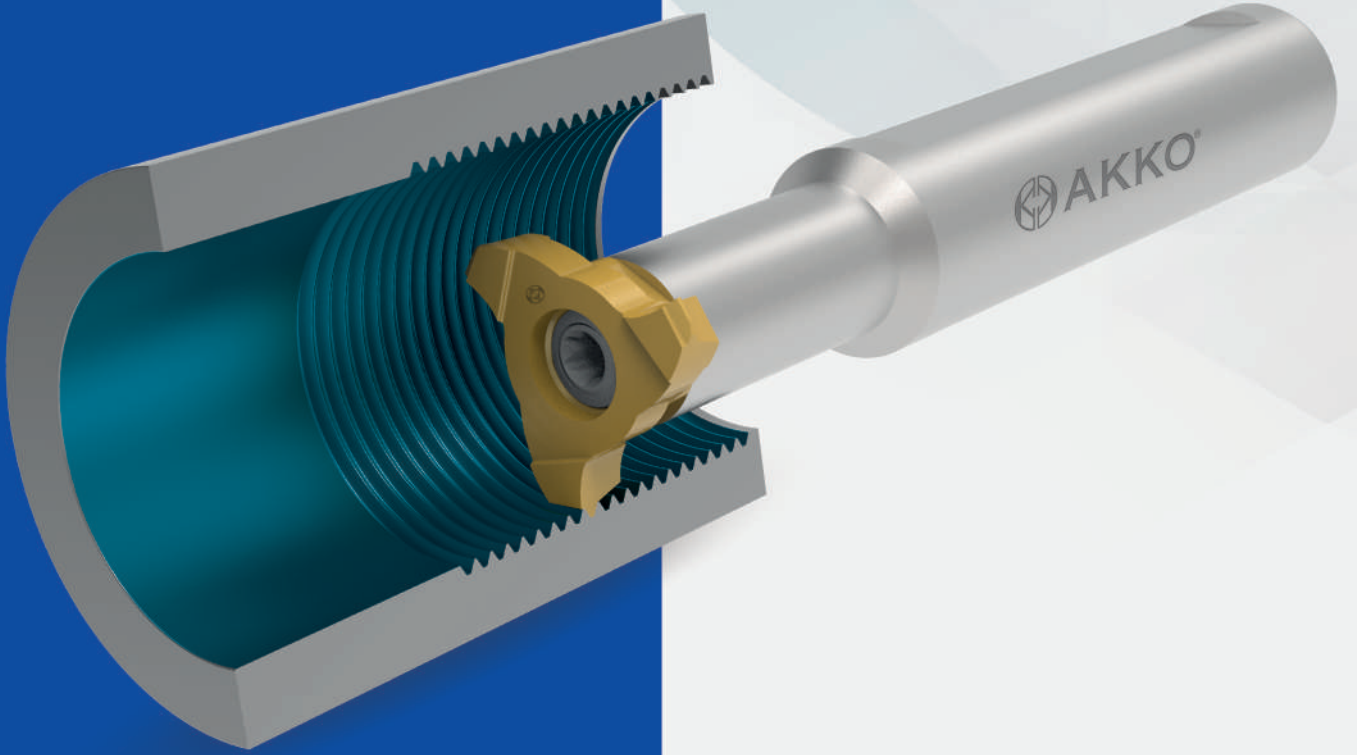
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

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

# MİMİLL UÇLARI ve TAKIMLARI

MİMİLL INSERTS and TOOLS

MİMİLL WENDESCHIEDPLATTEN WERKZEUGE



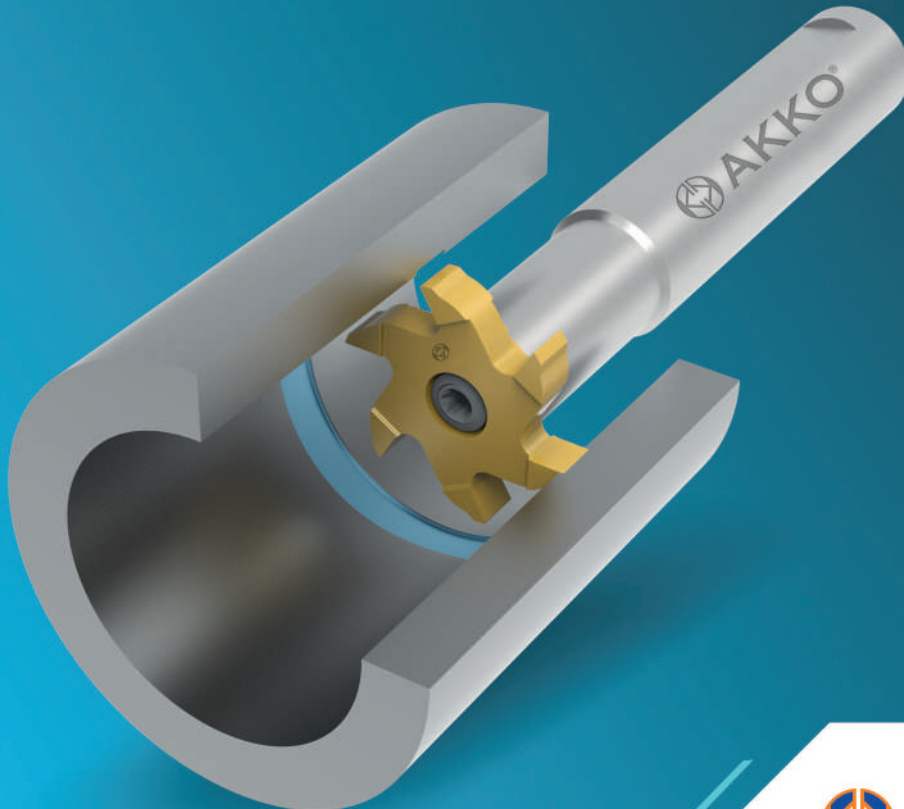
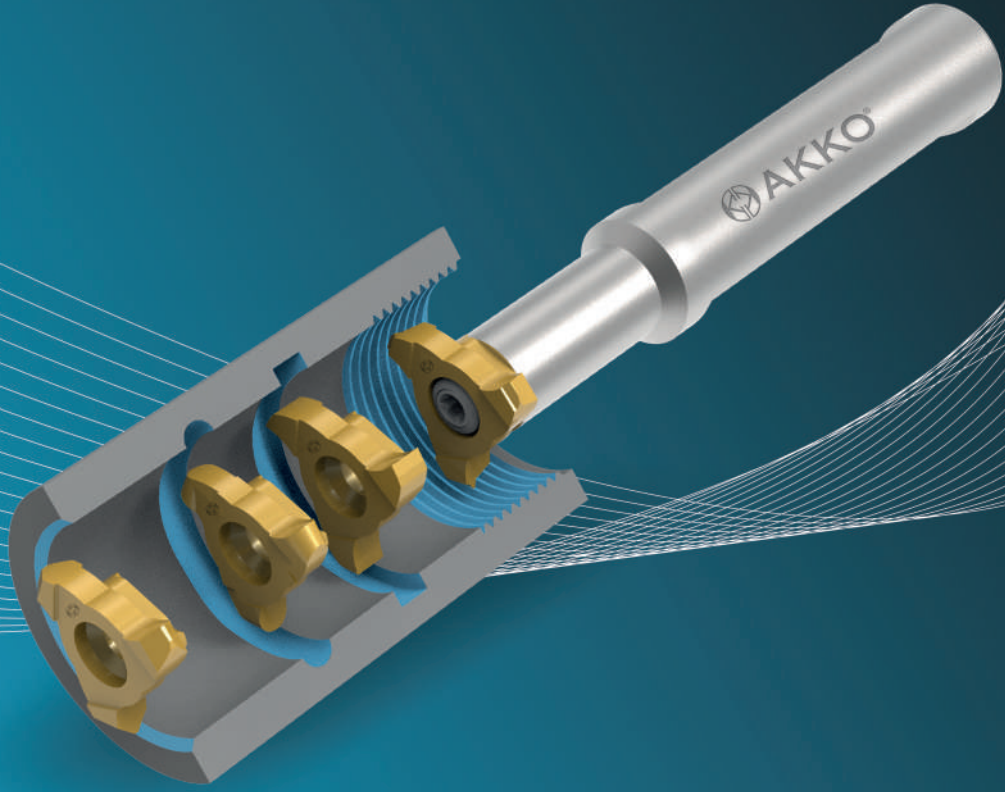
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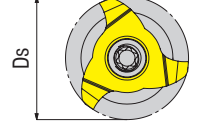
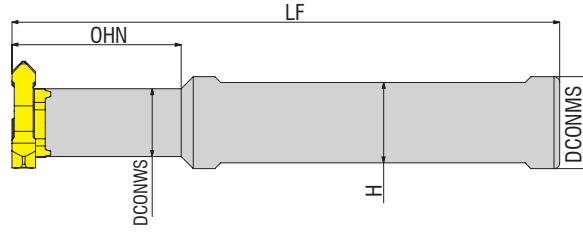
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**MİMİLL UÇLARI ve TAKIMLARI**  
**MIMILL INSERTS and TOOLS**  
**MIMILL WENDESCHIEDPLATTEN WERKZEUGE**



Ø Ds 17.7

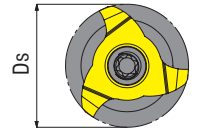
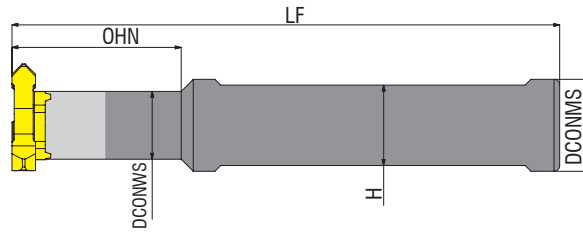
ÇELİK ŞAFT  
STEEL SHAFT  
STAHL SCHAFT



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		
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel	
AMM-MM1803-W12-L070-S	○	12	9	70	18	11	MM1803...	4015-M4x12	80-T15	
AMM-MM1803-W16-L080-S	○	16	9	80	26	15				

Ø Ds 17.7

KARBÜR ŞAFT  
CARBIDE SHAFT  
HARTMETALLSCHAFT

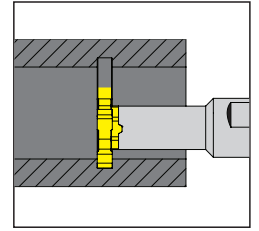
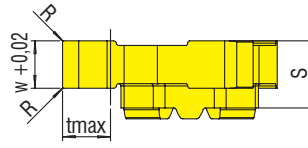
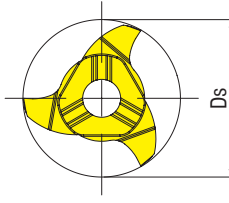
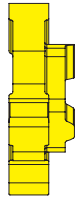
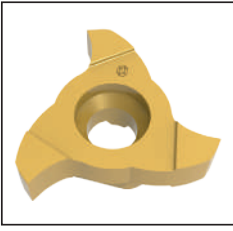


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile		
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel	
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

∅ Ds 17.7



Uç Kodu

Insert Code

Wendepplatten-Bezeichnung

Stok  
Stock  
Lager

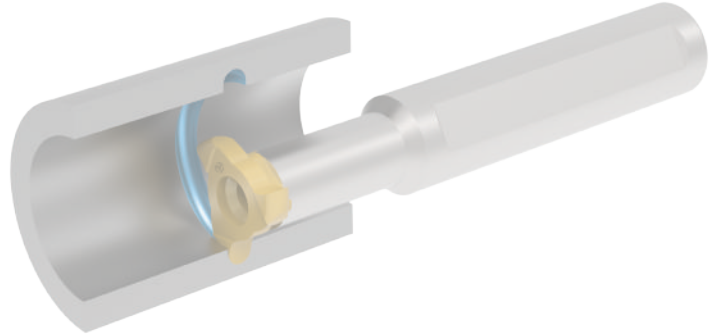
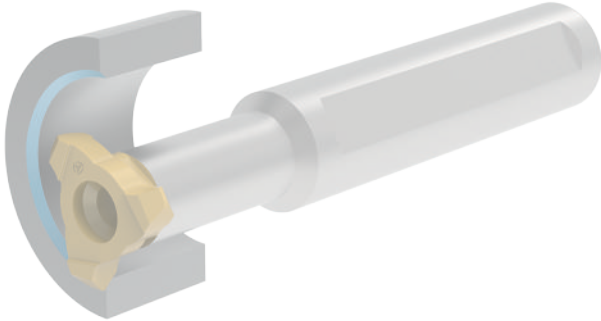
Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

Kalite  
Grade  
Sorte

Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Ds	W	R	tmax	S	Z	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
								....-MM1803-...	
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.0300.020.0177	○	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

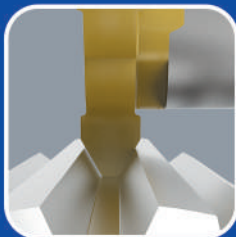
Sipariş Örneği/Ordering Example/Bestellbeispiel  
1 ad./pcs./ MM1803.G.0150.010.0177



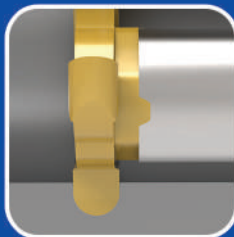
## DİĞER PROFİL ÇEŞİTLERİ / THE OTHER PROFILE TYPES / ANDERE PROFIL-TYPEN



THREAD PROFILE



GEAR PROFILE



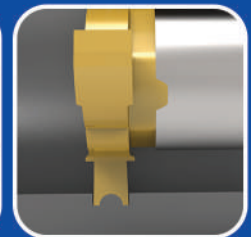
RADIUS GROVE PROFILE



CIRCLIP PROFILE



CHAMFER PROFILE



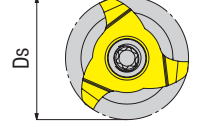
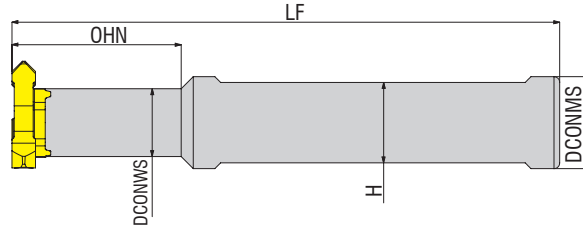
SPECIAL PROFILE

\*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

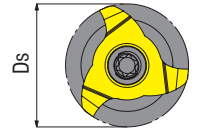
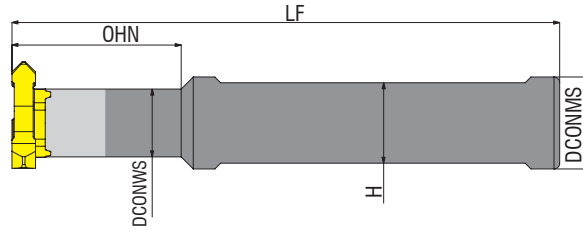
ÇELİK ŞAFT  
STEEL SHAFT  
STAHL SCHAFT



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		
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel	
AMM-MM2203-W12-L070-S	○	12	12	70	18	11	MM2203...	1020-M5x14	80-T20	
AMM-MM2203-W16-L080-S	○	16	12	80	26	15				

Ø Ds 21.7

KARBÜR ŞAFT  
CARBIDE SHAFT  
HARTMETALLSCHAFT

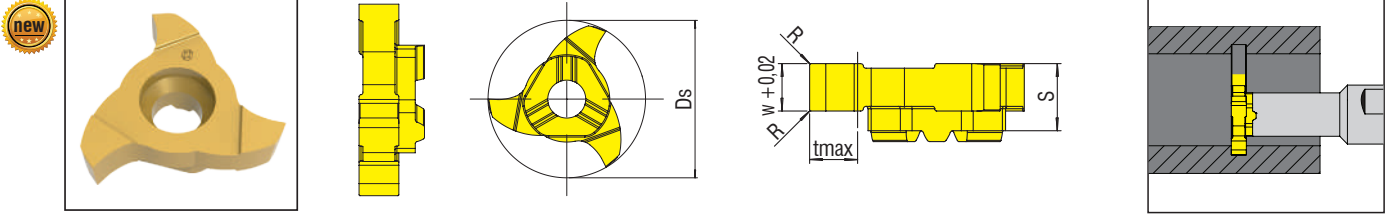


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile		
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel	
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

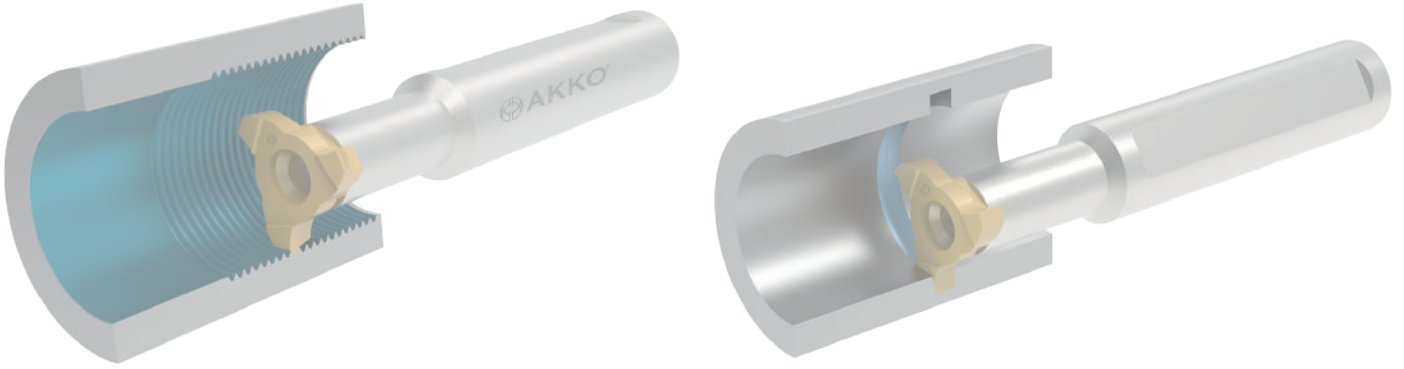
Ø Ds 21.7



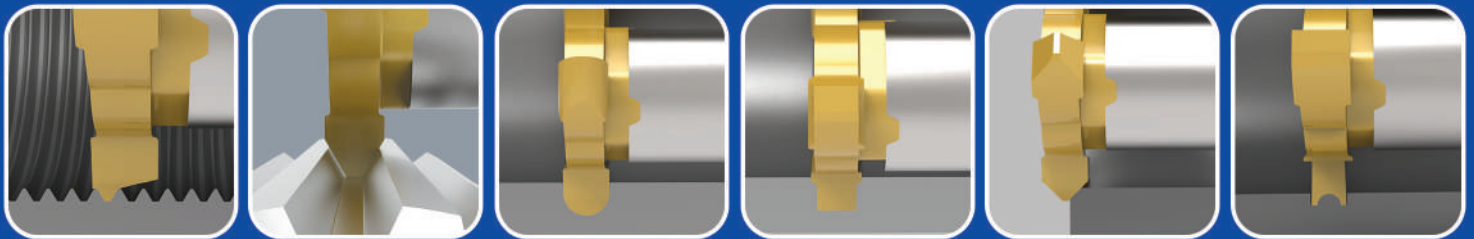
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)						UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
		Ds	W	R	tmax	S	Z		
MM2203.G.0150.010.2177	○	21.7	1.5	0.1	4.5	5.7	3	....-MM2203-....	VP3001
MM2203.G.0200.020.2177	○	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 GROOVE PROFILE

CIRCLIP PROFILE

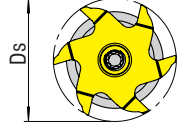
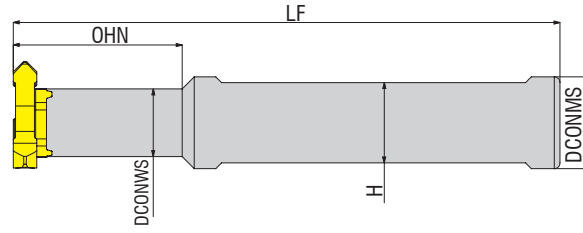
CHAMFER PROFILE

SPECIAL PROFILE

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

Ø Ds 27.7

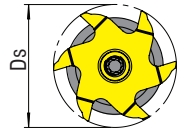
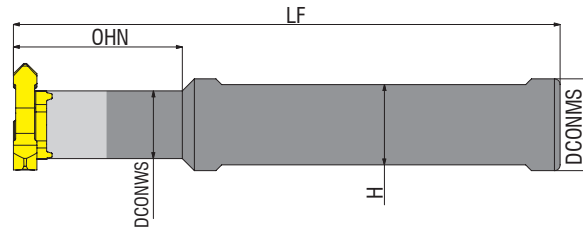
ÇELİK ŞAFT  
STEEL SHAFT  
STAHL SCHAFT



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		
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel	
AMM-MM2806-W12-L070-S	○	12	14.5	70	20	11	MM2806	1020-M5x14	80-T20	
AMM-MM2806-W16-L090-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



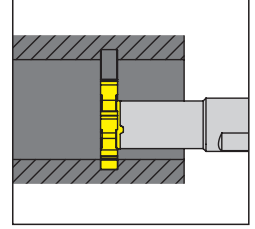
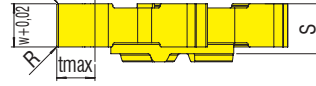
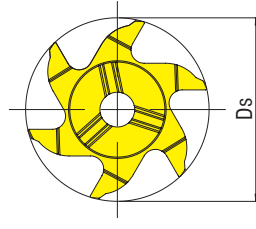
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile		
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel	
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

new



Uç Kodu  
Insert Code  
Wendepplatten-Bezeichnung

Stok  
Stock  
Lager

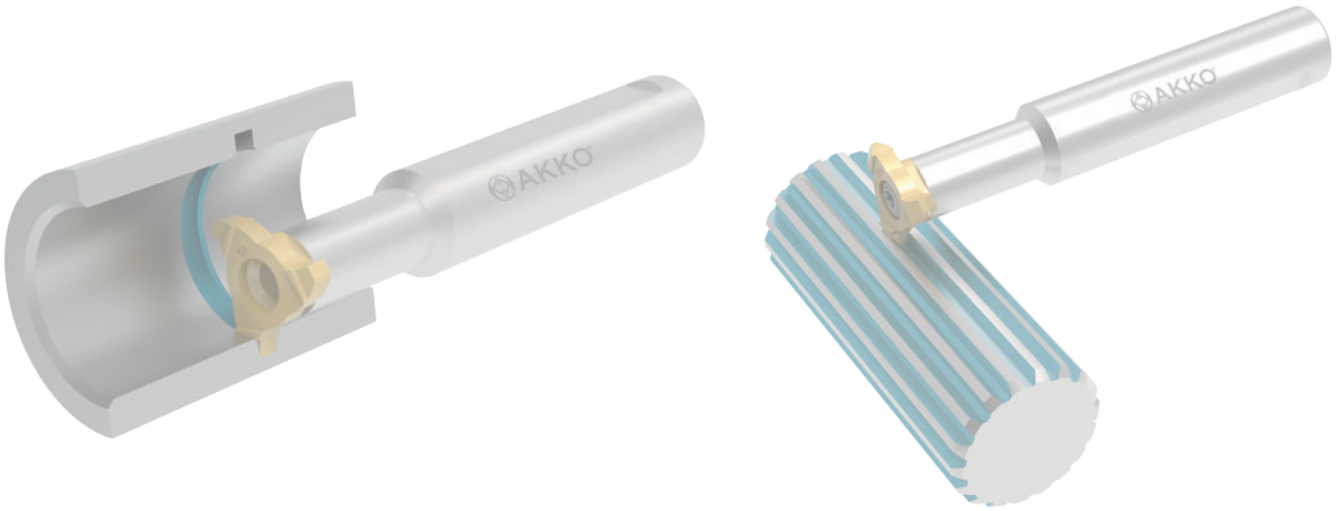
Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

Kalite  
Grade  
Sorte

Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Ds	W	R	tmax	S	Z	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
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

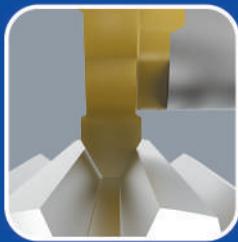
Sipariş Örneği/Ordering Example/Bestellbeispiel  
1 ad./pcs./stück MM2806.G.0250.020.2770



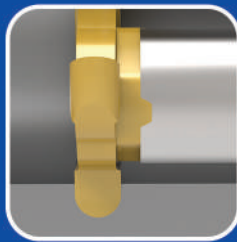
## DİĞER PROFİL ÇEŞİTLERİ / THE OTHER PROFILE TYPES / ANDERE PROFIL-TYPEN



THREAD PROFILE



GEAR PROFILE



RADIUS GROOVE PROFILE



CIRCLIP PROFILE



CHAMFER PROFILE

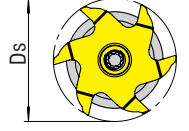
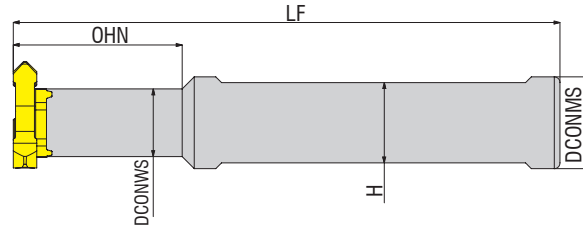


SPECIAL PROFILE

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

Ø Ds 31.7

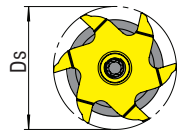
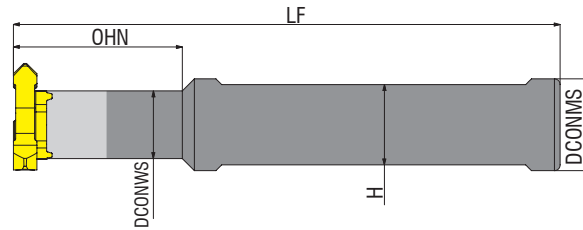
ÇELİK ŞAFT  
STEEL SHAFT  
STAHL SCHAFT



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		
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel	
AMM-MM3306-W16-L090-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



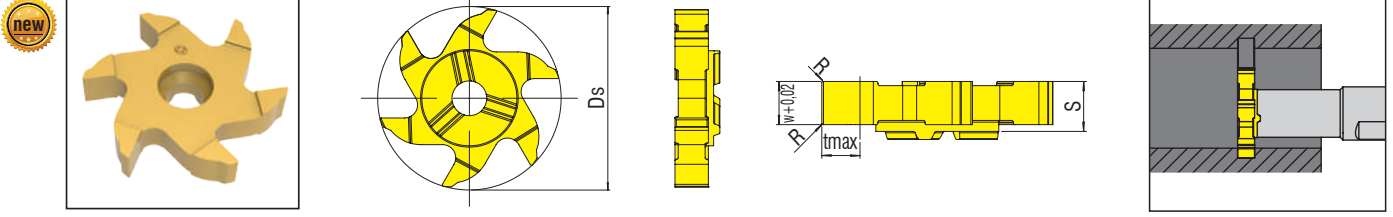
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile		
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel	
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



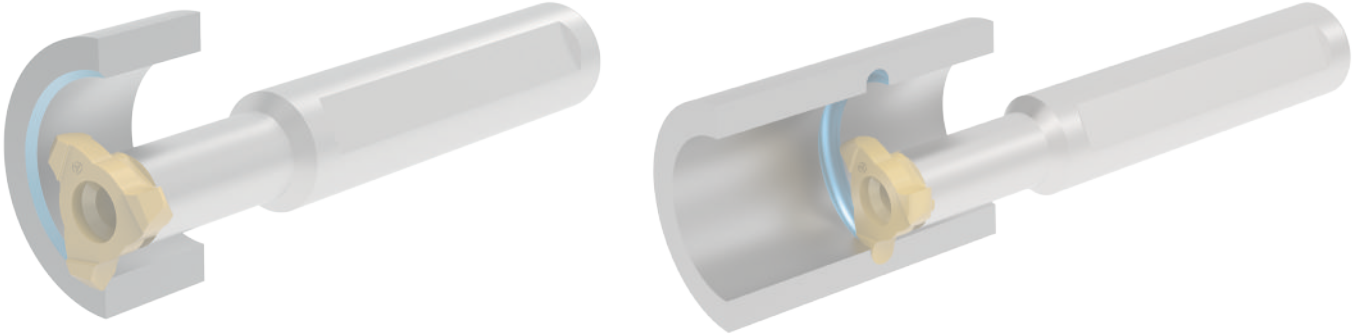
Ø Ds 31.7



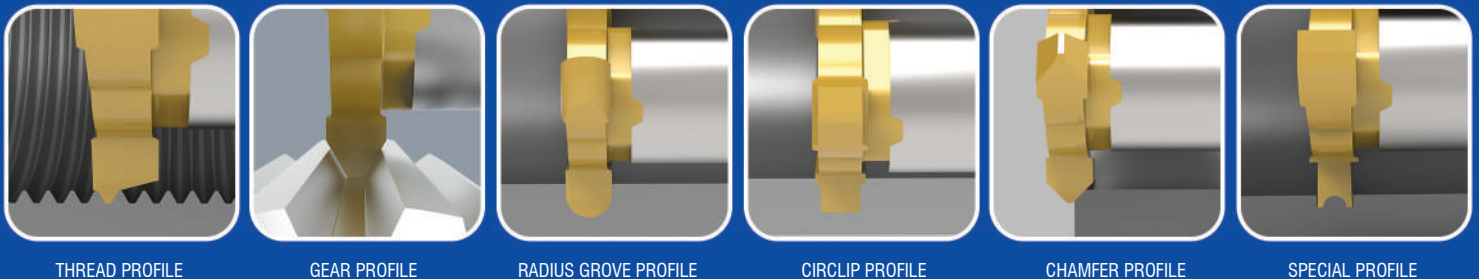
Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)						UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
		Ds	W	R	tmax	S	Z		
MM3306.G.0200.020.3170	○	31.7	2.0	0.2	8.3	5.9	6	....-MM3306-...	VP3001
MM3306.G.0250.020.3170	○	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 GROOVE PROFILE

CIRCLIP PROFILE

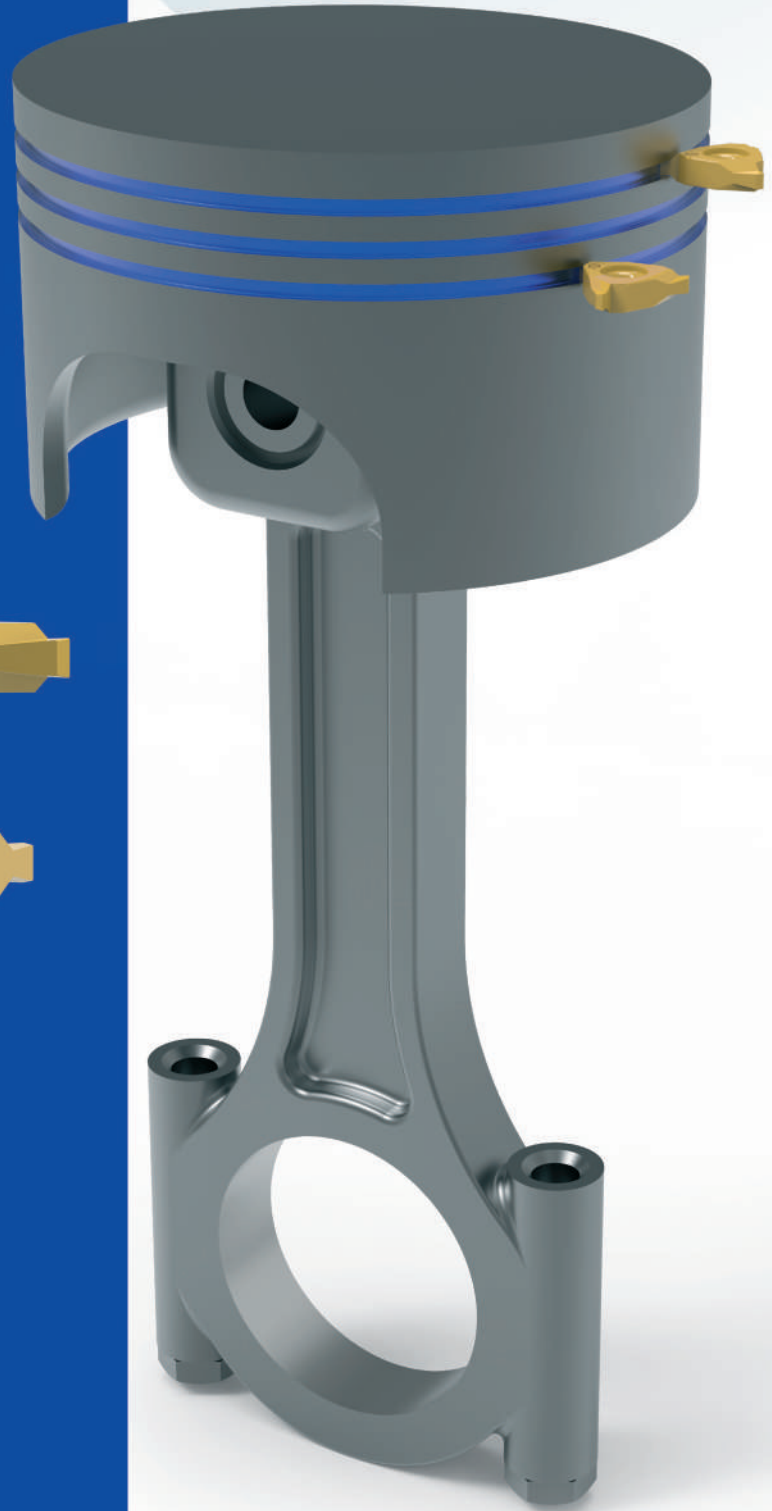
CHAMFER PROFILE

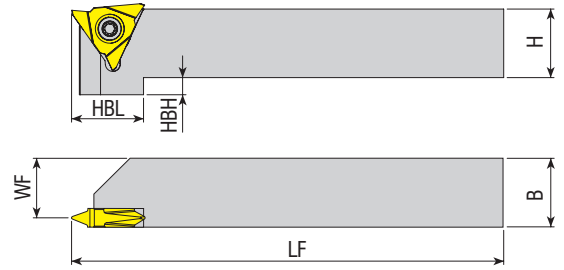
SPECIAL PROFILE

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

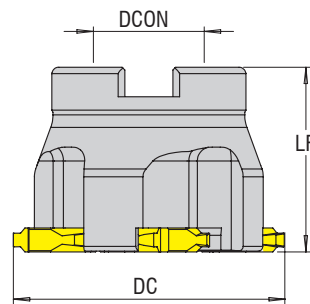
# SEGMAN UÇLARI ve TAKIMLARI

RING INSERTS and TOOLHOLDERS  
*RINGEINSÄTZE und WERKZEUGHALTER*



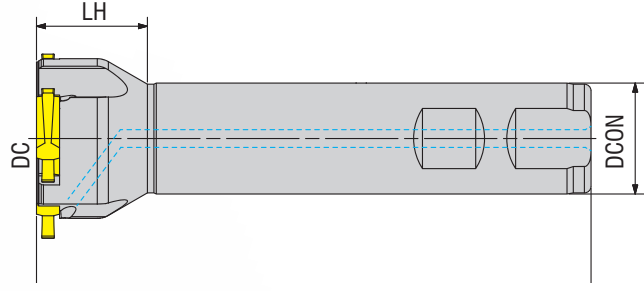





Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile		
	R	L	H	B	WF	LF	HBL		HBH	Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
<b>new</b> ADKT-T09P-R/L-1212-T3	●	○	12	12	9.5	100	16	4		4015-M4X9	
<b>new</b> ADKT-T09P-R/L-1616-T3	●	○	16	16	13.5	125	-	-			
<b>new</b> ADKT-T09P-R/L-2020-T3	●	●	20	20	17.5	125	-	-			
<b>new</b> ADKT-T09P-R/L-2525-T3	○	●	25	25	22.5	150	-	-		1020-M5x14	
ADKT-T12P-R/L-1616-T5	●	●	16	16	13.50	125	21	5			
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	-	-		1020-M5x14	
<b>new</b> ADKT-T20P-R/L-1212-T5	○	○	12	12	9.5	100	16	4			
<b>new</b> ADKT-T20P-R/L-1616-T5	○	○	16	16	13.5	125	-	-			
<b>new</b> ADKT-T20P-R/L-2020-T5	●	●	20	20	17.5	125	-	-			
<b>new</b> ADKT-T20P-R/L-2525-T5	○	○	25	25	22.5	150	-	-			

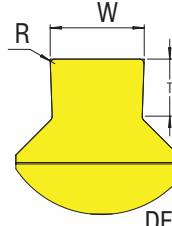
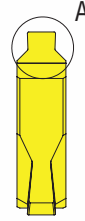
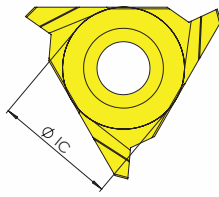


Takım Kodu Ordering Code Bestell-Bezeichnung	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile		
	DC	ZEP	DCON	LF	APMX		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel	
ASFM-T12-D60x5.2-A22-Z04	60	4	22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

Sipariş Örneği/Ordering Example/Bestellbeispiel  
1 ad./pcs./stück ADKT-T09P-R-1212-T3



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



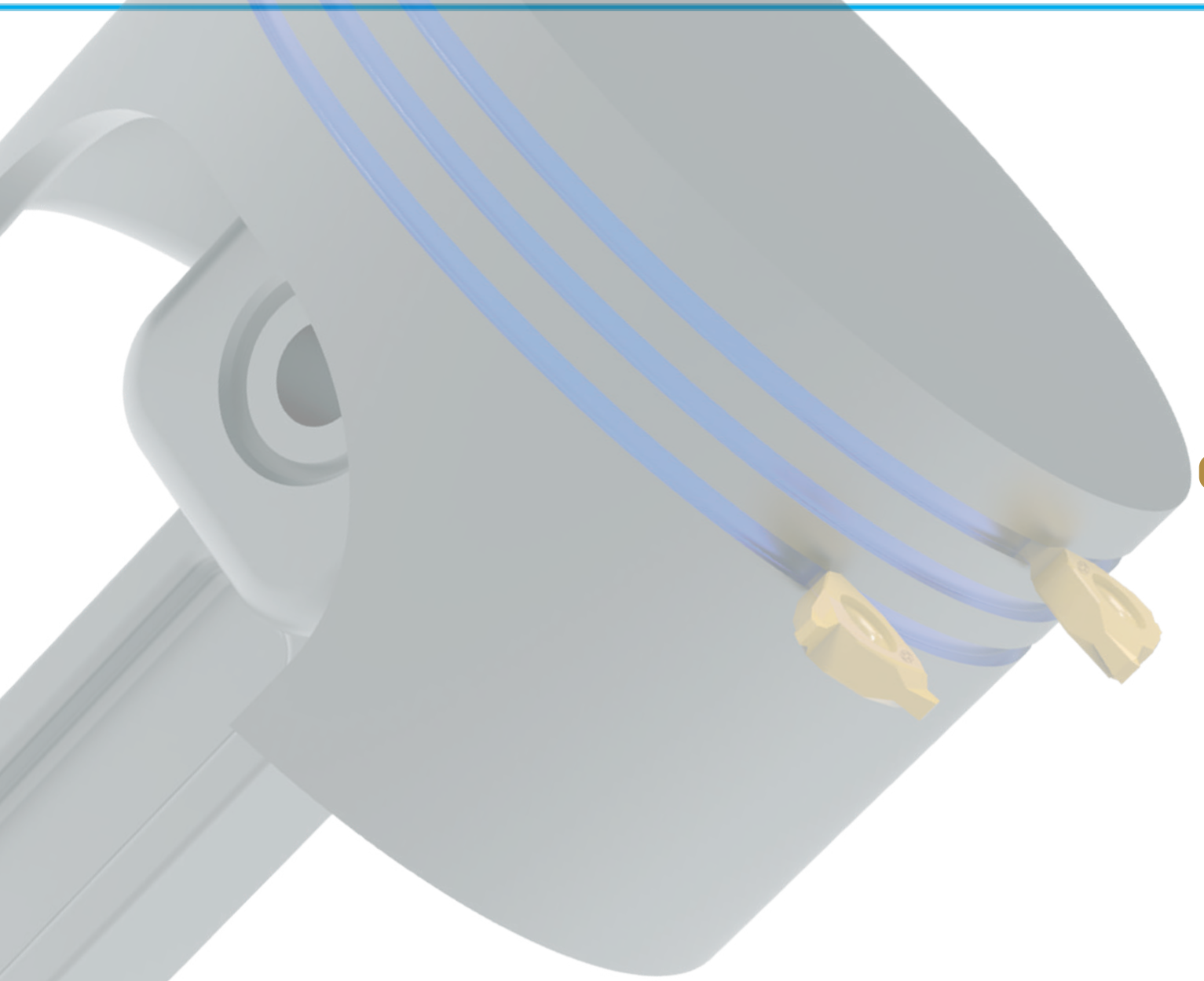
DIN 471/472\_DIN 983/984  
NW: NOMINAL SEGMAN KALINLIĞI  
NW: NOMINAL CIRCLIP THICKNESS

DETAY A

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

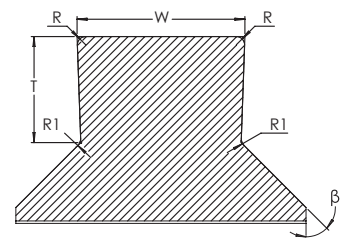
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

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



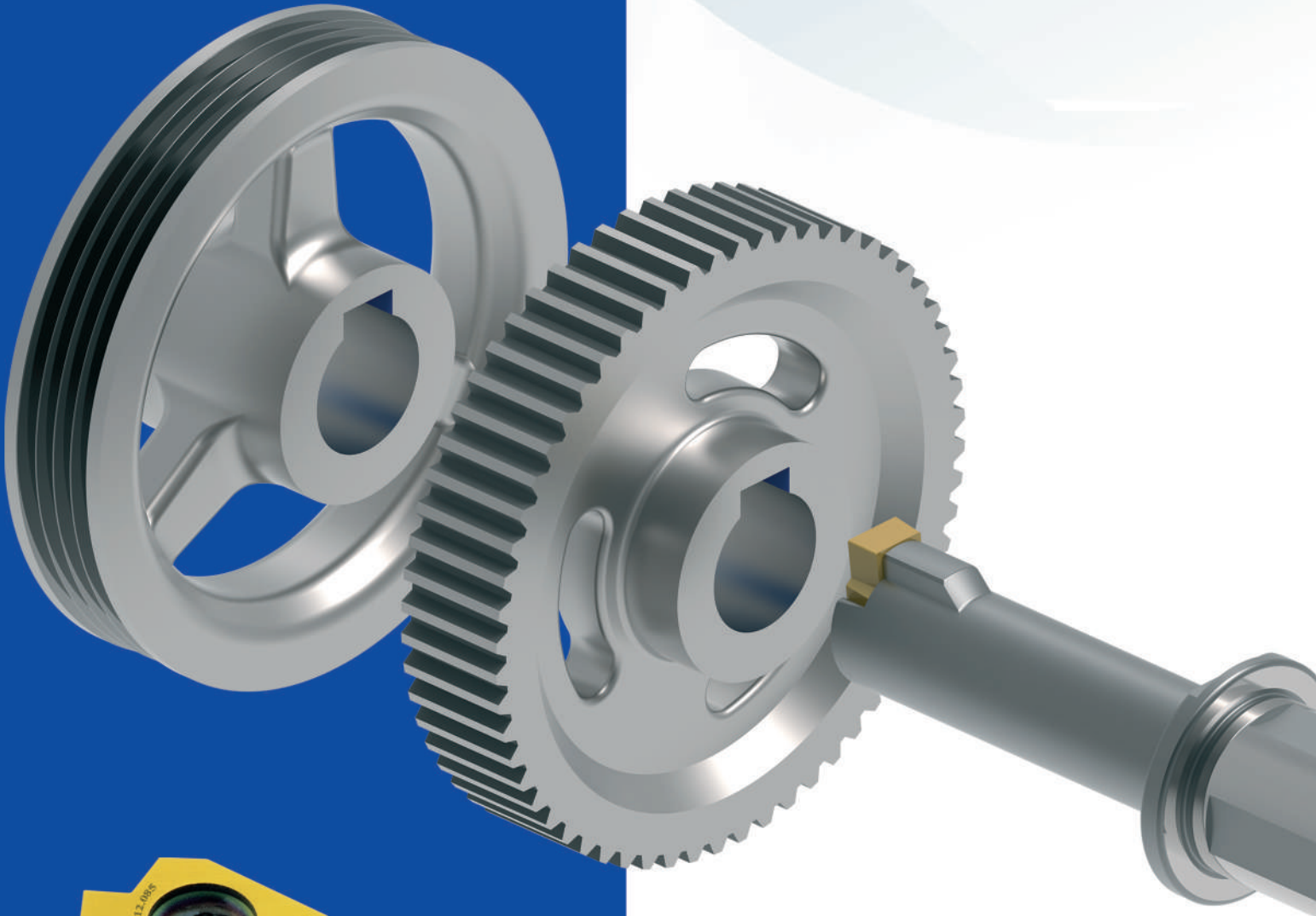
SEGMAN UCU BİLGİ ALMA FORMU  
INFORMATION REQUEST FORM FOR RING INSERTS  
INFORMATIONSFÖRMULAR FÜR RINGEINSÄTZE

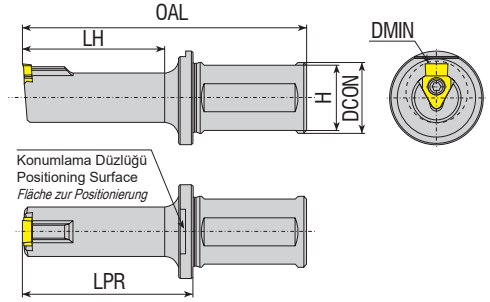
<b>W :</b>	
<b>R :</b>	
<b>R1 :</b>	
<b><math>\beta</math> :</b>	



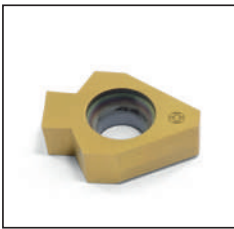
# BROŞ

**BROŞ ÇEKME UÇLARI ve TAKIMLARI**  
*BROACHING INSERTS and TOOLHOLDERS*  
*WENDESCHNEIDPLATTEN und WERKZEUGHALTER FÜR*  
*DIE NUTBEARBEITUNG*

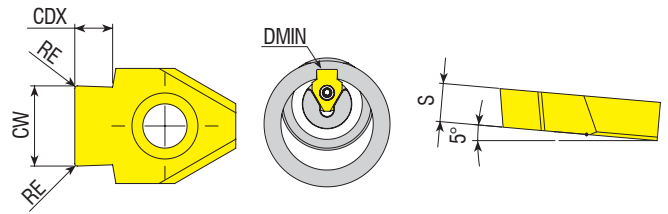




Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile		
		DMIN	LH	DCON	OAL	LPR	H		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel	
<b>new</b> ABT-B41-D14-Y25-L90-I040	●	14	40	25	90	50	23	<b>B41...</b>	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				
<b>new</b> ABT-B41-D30-Y32-L170-I110	●	30	110	32	170	60	30	<b>B42...</b>	1020-M5x14	80-T20	
ABT-B42-D30-Y32-L100-I050	●	30	50	32	100	60	30				
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)					UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
		CW	RE	CDX	S	DMIN	
<b>B41.00.0612.085.VP3001</b>	●	6.12	0.85	2.6	4.0	22	ABT-B41-D22...
<b>B41.00.0713.085.VP3001</b>	●	7.13	0.85	3.3	4.0	22	
<b>B41.00.0813.105.VP3001</b>	●	8.13	1.05	3.4	4.0	22	
<b>B42.00.1013.105.VP3001</b>	●	10.13	1.05	4.2	6.0	30	ABT-B42-D30...
<b>B42.00.1215.135.VP3001</b>	●	12.15	1.35	5.1	6.0	38	ABT-B42-D38...
<b>B42.00.1215.175.VP3001</b>	●	12.15	1.75	6.6	6.0	38	
<b>B42.00.1215.225.VP3001</b>	●	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

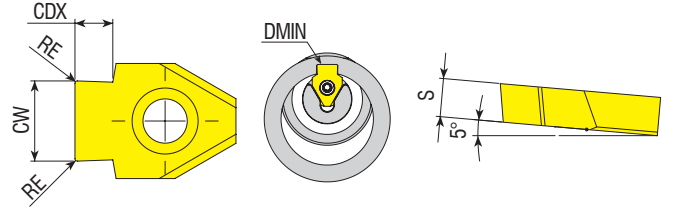
R: Sağ / Right / Rechts L: Sol / Left / Links

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

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

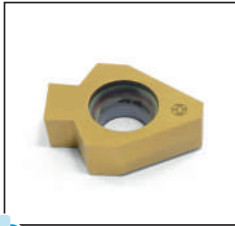


*DIN138 (Tolerans D10) torna ve freze tezgahlarında broş çekme uçları.  
 DIN138 (Tolerance D10) inserts for keyway broaching on lathe and milling machines.  
 DIN 138 (Toleranz D10) Wendeplatten für Keilnutenfertigung auf Dreh- und Fräsmaschinen*

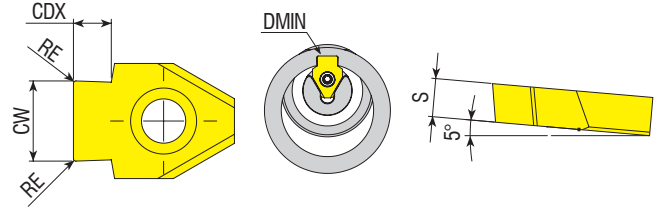


Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)					UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
		CW	RE	CDX	S	DMIN	
B41.00.0407.012.VP3001	○	4.07	0.12	2.2	4.0	14	ABT-B41-D14...
B41.00.0507.020.VP3001	○	5.07	0.2	2.9	4.0	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*



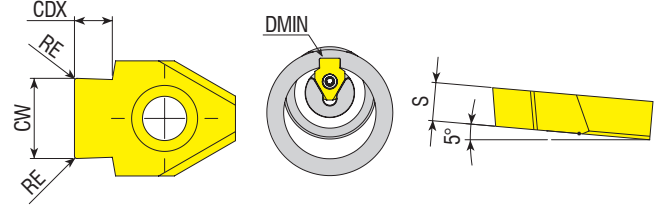
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)					UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
		CW	RE	CDX	S	DMIN	
B41.00.0498.020.VP3001	●	4.98	0.20	2.7	4.0	17	ABT-B41-D17
B41.00.0598.020.VP3001	●	5.98	0.20	3.4	4.0	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

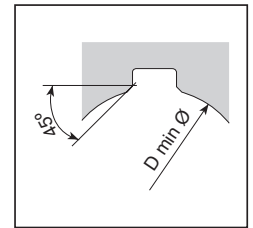
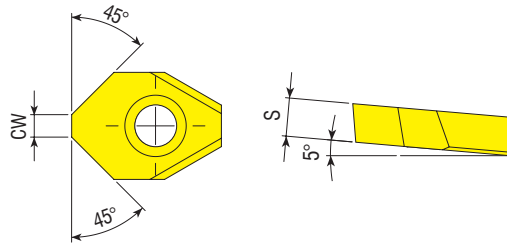


Uç Kodu Insert Code Wendeplatten-Bezeichnung/Geidplatte	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)					UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
		CW	RE	CDX	S	DMIN	
B41.00.0301.020.VP3001	●	3.01	0.20	3.0	4.0	17	ABT-B41-3.01-D17-...
B41.00.0501.020.VP3001	●	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.  
Wendeschnidplatten zum Anfasen von Keilnuten auf Dreh- und Fräsmaschinen



Uç Kodu Insert Code Wendeplatten-Bezeichnung/Geidplatte	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)			UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
		DMIN	CW	S	
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

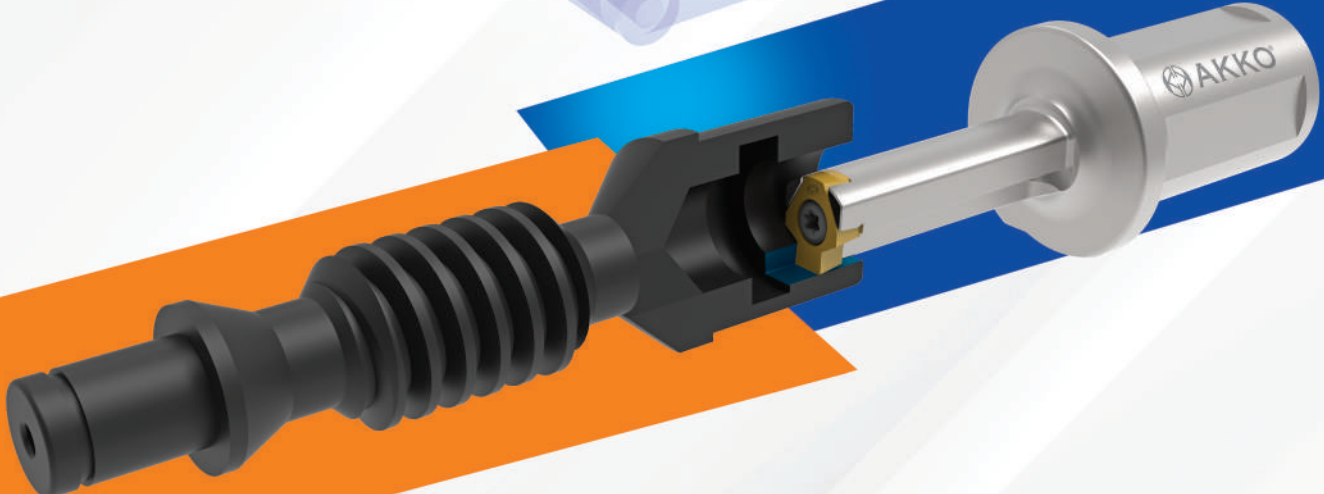
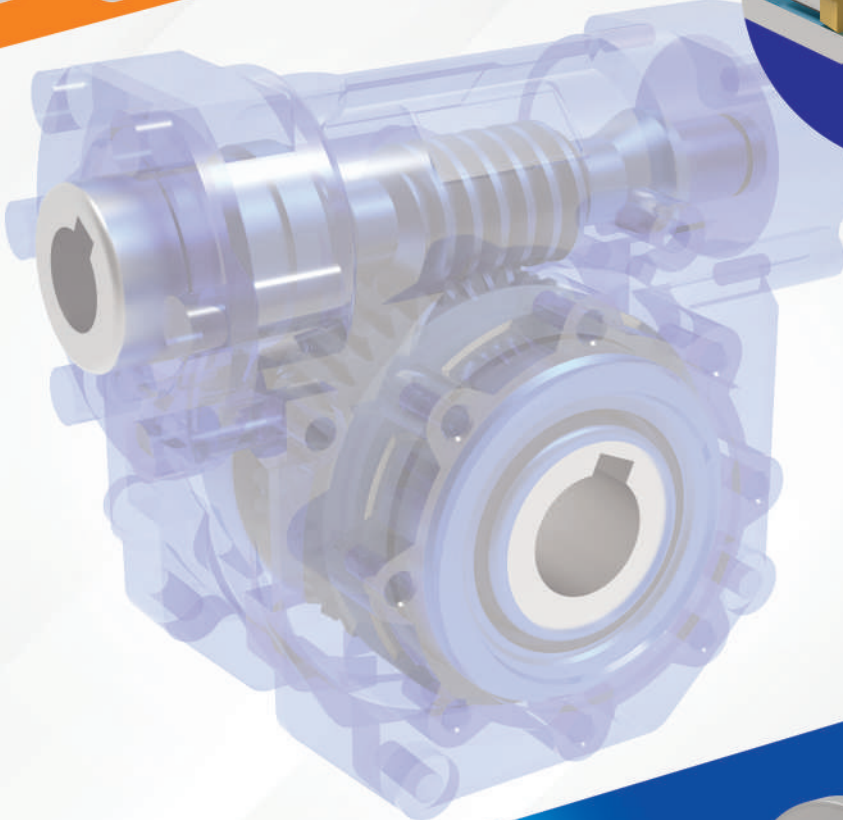
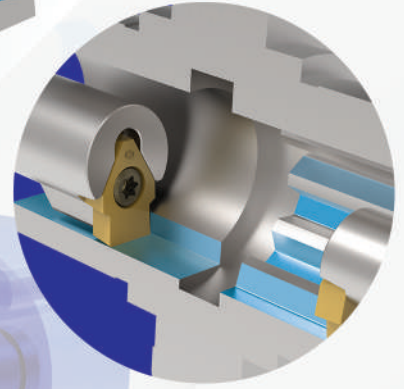
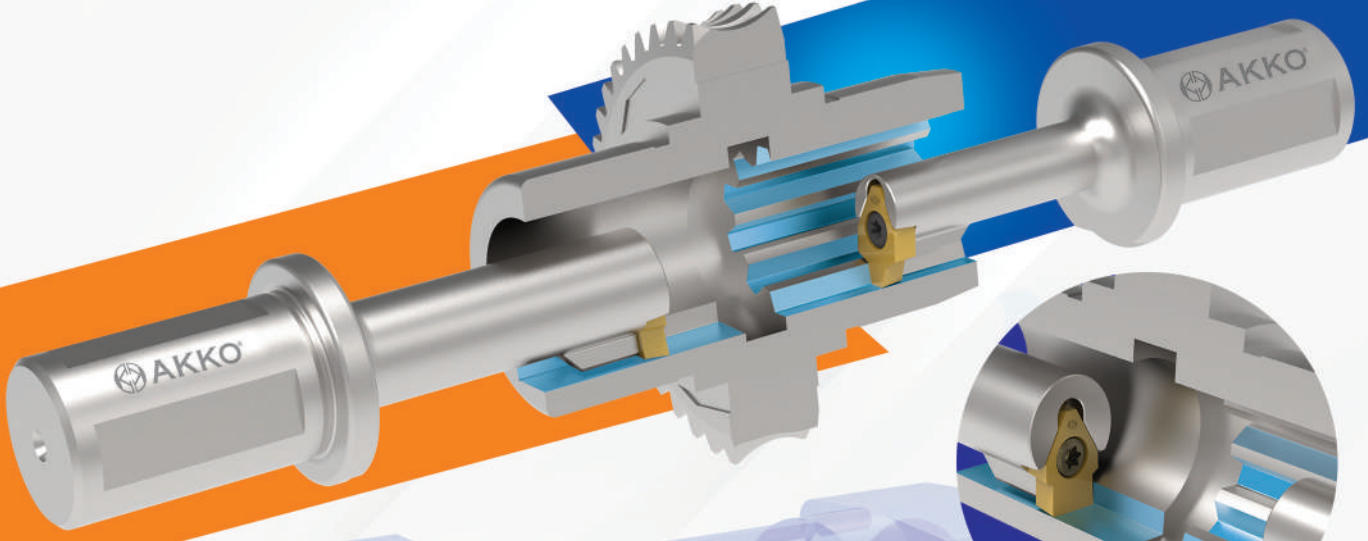
Sipariş Örneği/Ordering Example/Bestellbeispiel

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.



Üretmemizi istediğiniz Uçun 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.



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



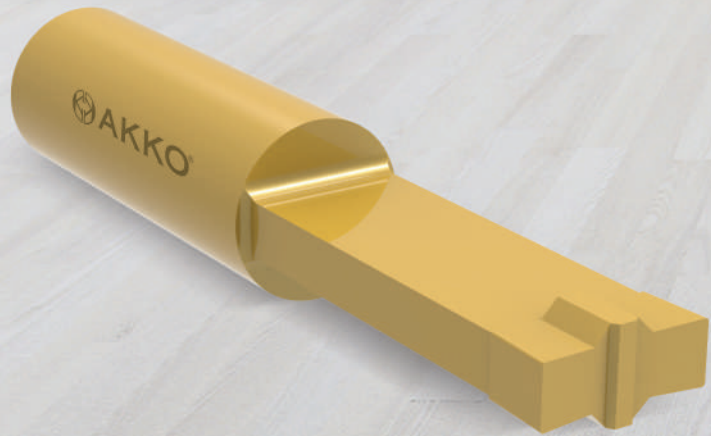
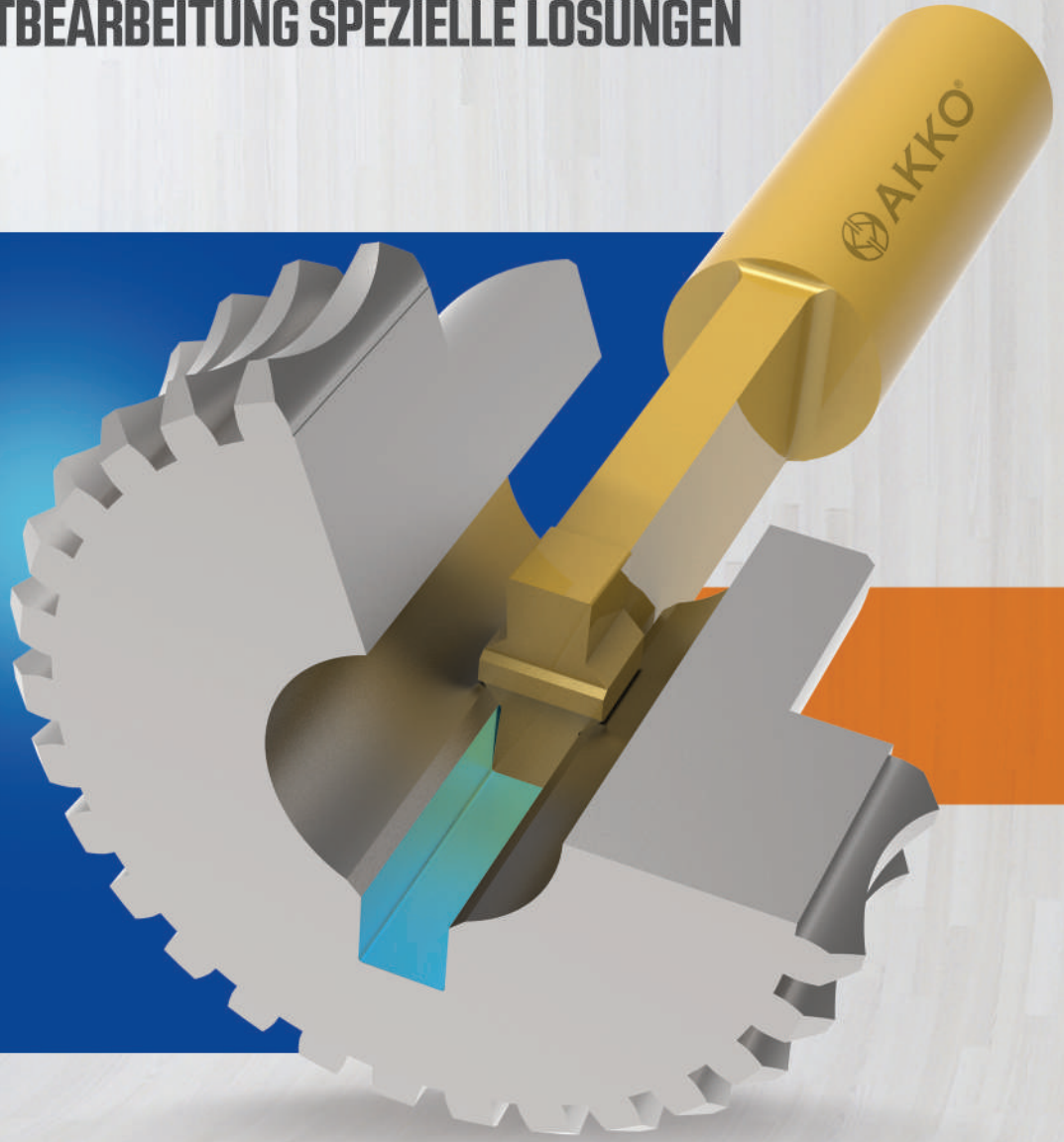
Üretimi yapıp size gönderebiliriz.  
We produce it and ship it to you.  
Wir werden es produzieren und Ihnen ausliefern.

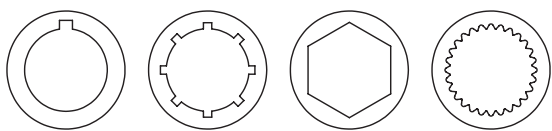
BROŞ UCU BİLGİ ALMA FORMU / BROACHING INSERT INFORMATION FORM / INFORMATIONSBLATT FÜR DIE WENDESCHNEIDPLATTE DER NUTBEARBEITUNG

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

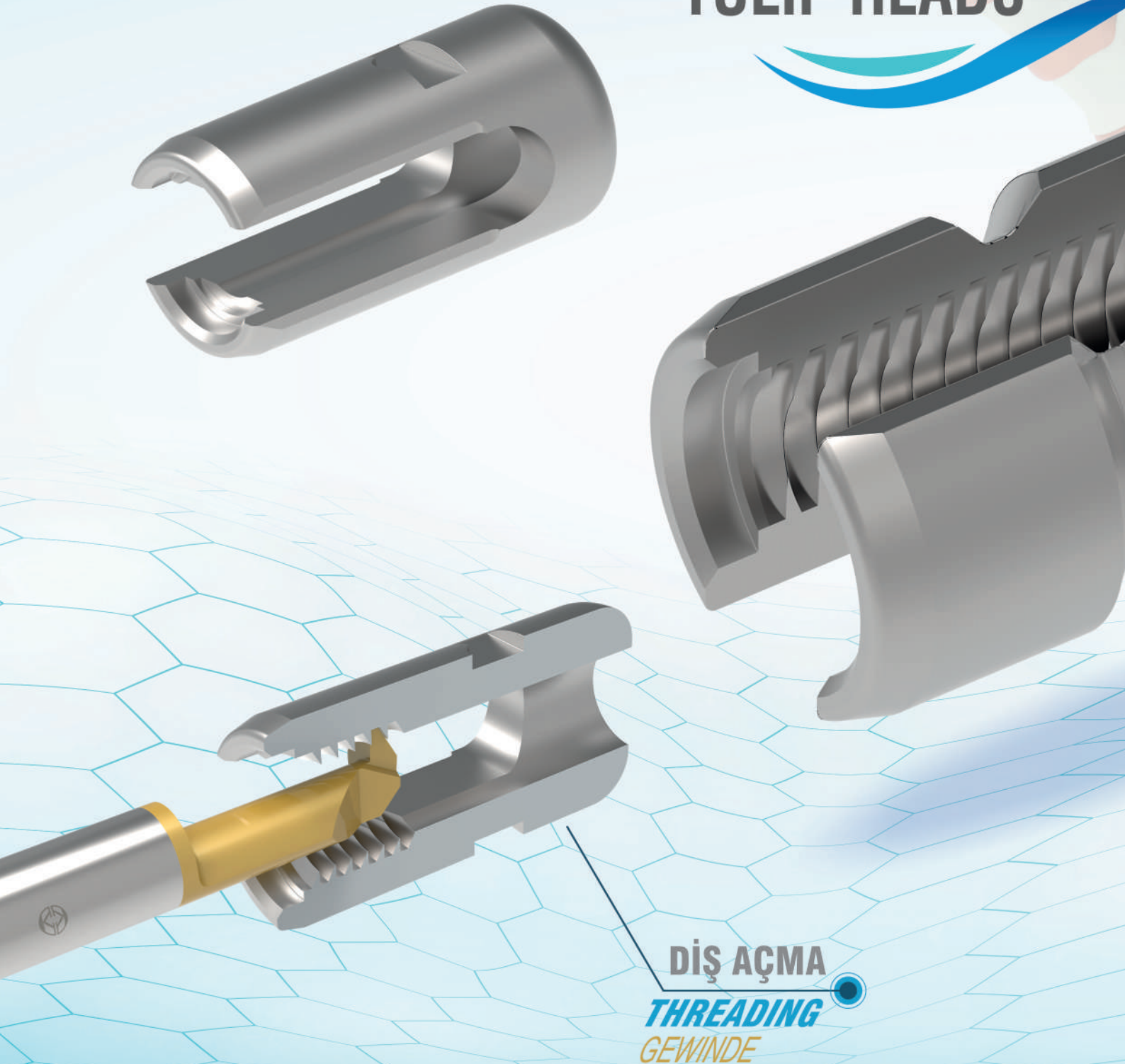
b				
t				
r				
d/min*				
İş Parçası Malzemesi Work Material Werkstückmaterial				
Tolerans Grubu / Tolerance Group / Toleranzgruppe				
C11	P9	JS9	CUSTOM	

**BROŞ ÖZEL ÇÖZÜMLER**  
**SPECIAL SOLUTIONS FOR BROACHING**  
**NUTBEARBEITUNG SPEZIELLE LÖSUNGEN**





# TULIP HEADS



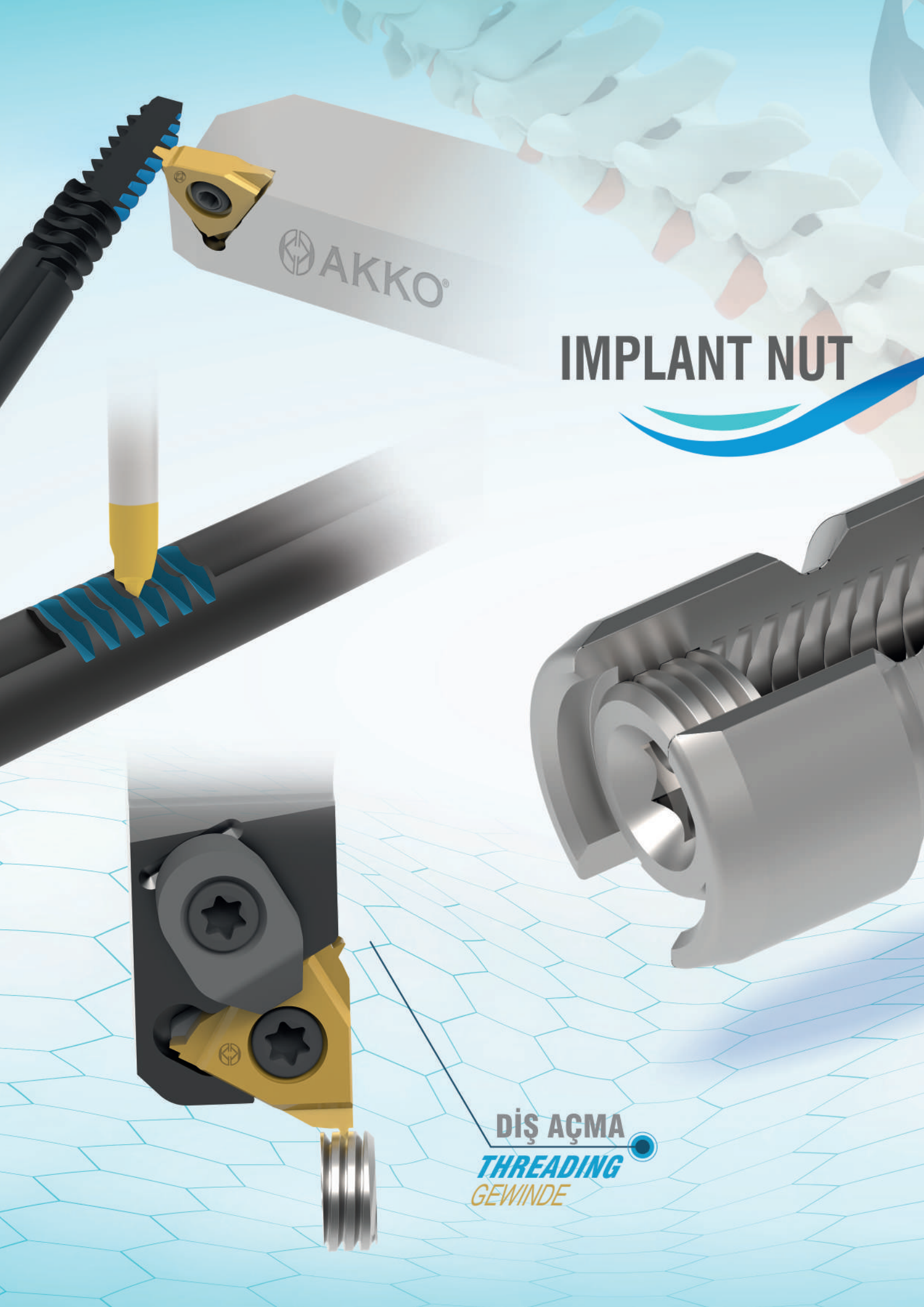
**DIŞ AÇMA**  
**THREADING**   
**GEWINDE**

DELİK İÇİ  
TORNALAMA

**BORING**  
*BOHREN*

ÖZEL FORMA AÇMA

**SPECIAL FORMING**  
*SONDER FORM BEARBEITUNG*



AKKO®

# IMPLANT NUT

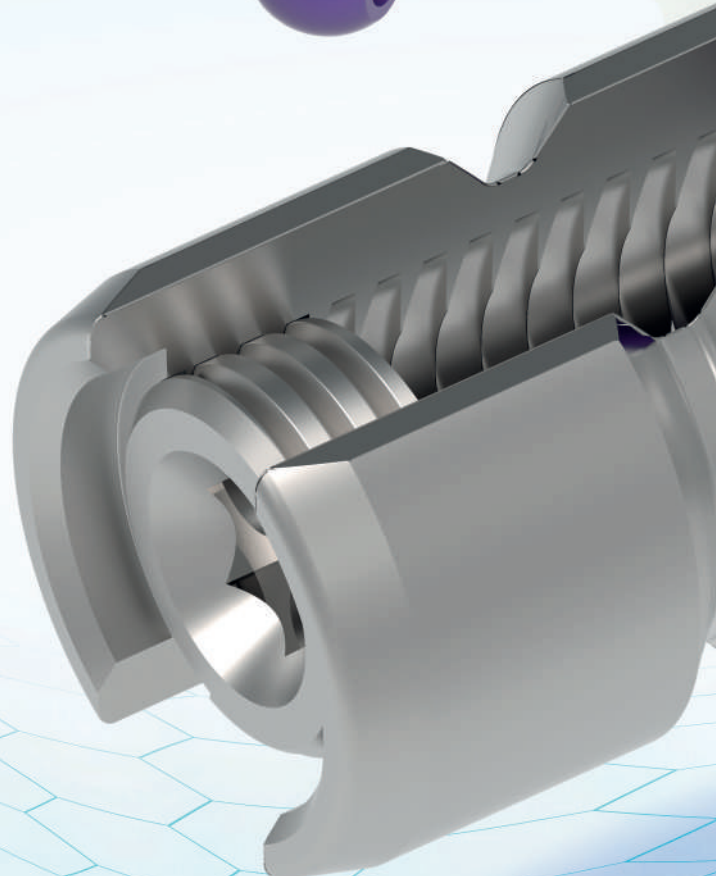
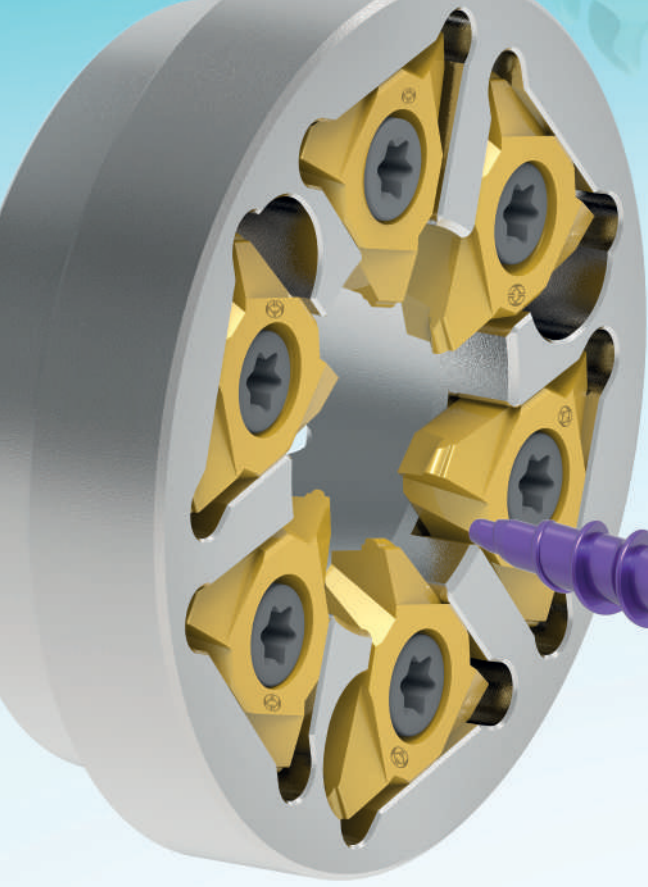
DIŞ AÇMA  
**THREADING**  
GEWINDE

**ALIN ÖZEL FORM**  
**SPECIAL  
FACE FORMING**  
*ALIN SONDERFORM*

**ALYAN PUNCH**

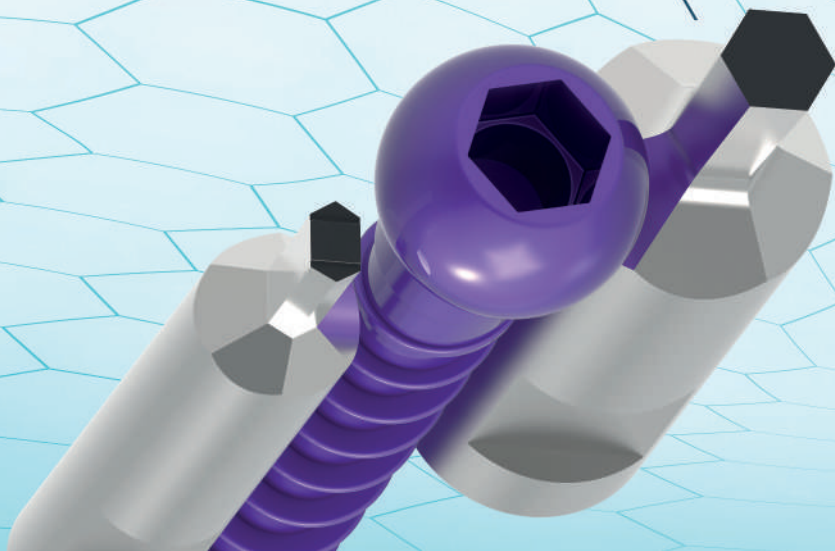
**ALLEN PUNCH**  
*WINKELSCHRAUBENDEHER  
WERKZEUGE*

**WHIRLING**  
**WHIRLING**  
*WENDESCHNEIDPLATTEN*

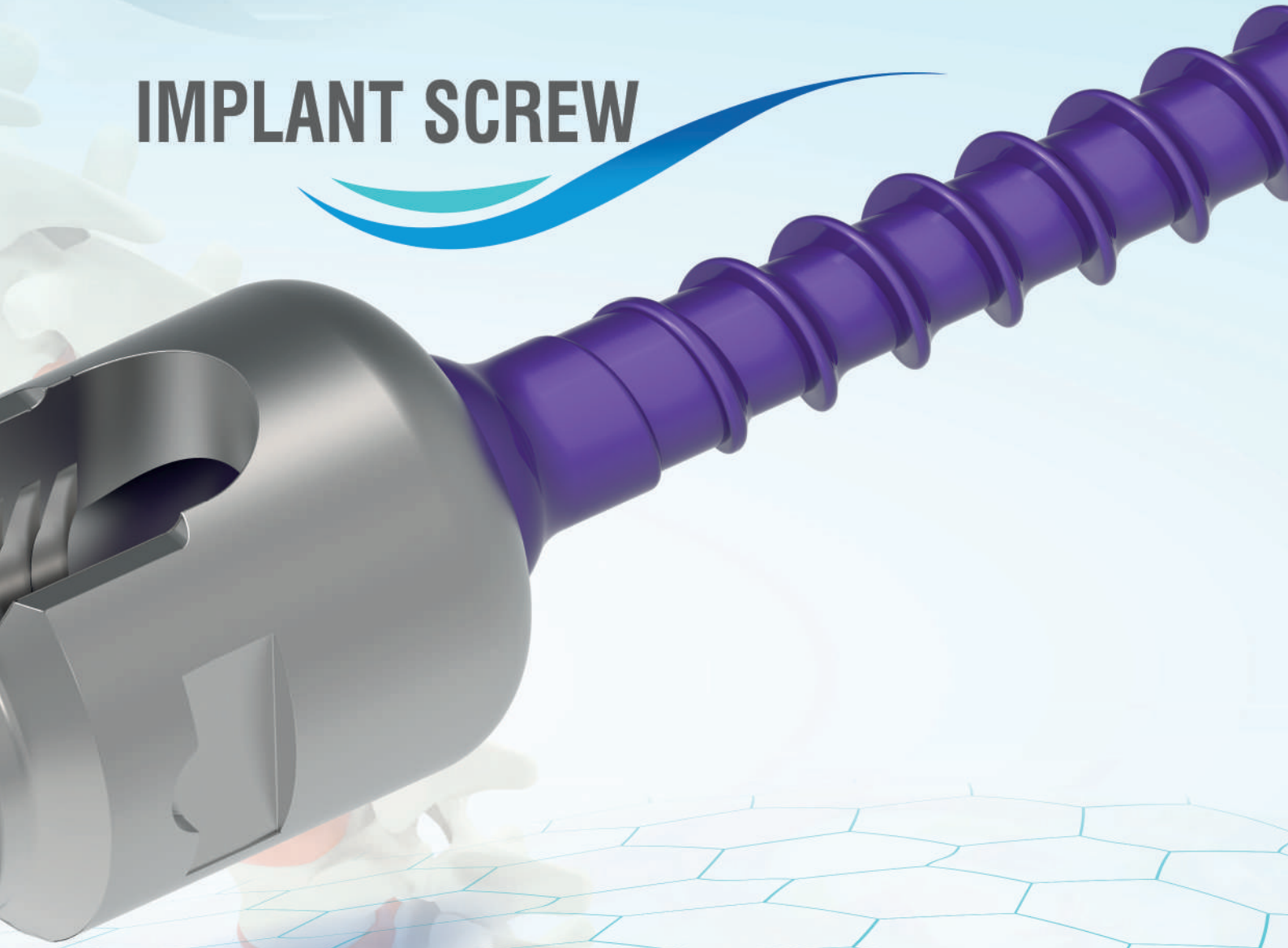


**ALYAN / PUNCH - KAZIMA**

**ALLEN / PUNCH - BROACH**  
*WINKELSCHRAUBENDEHER  
WERKZEUGE*



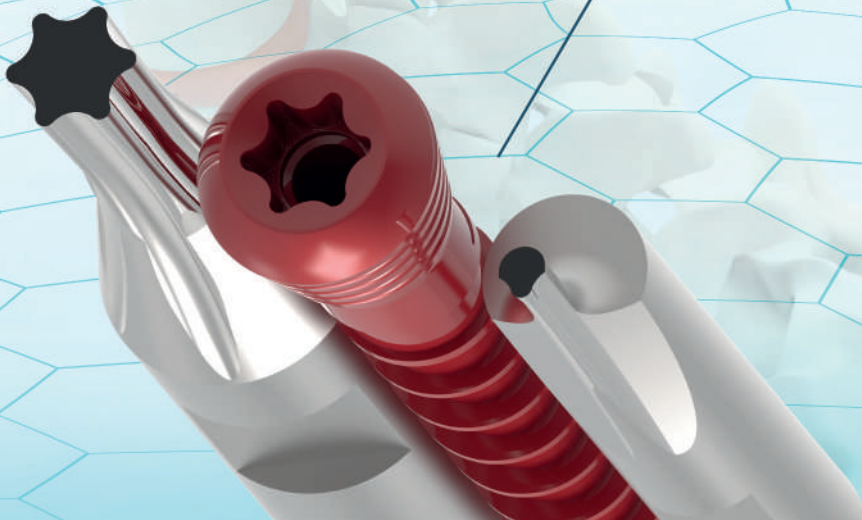
# IMPLANT SCREW



**TORX / PUNCH - KAZIMA**

***TORX / PUNCH - BROACH***

***WINKELSCHRAUBENDREHER - RING***

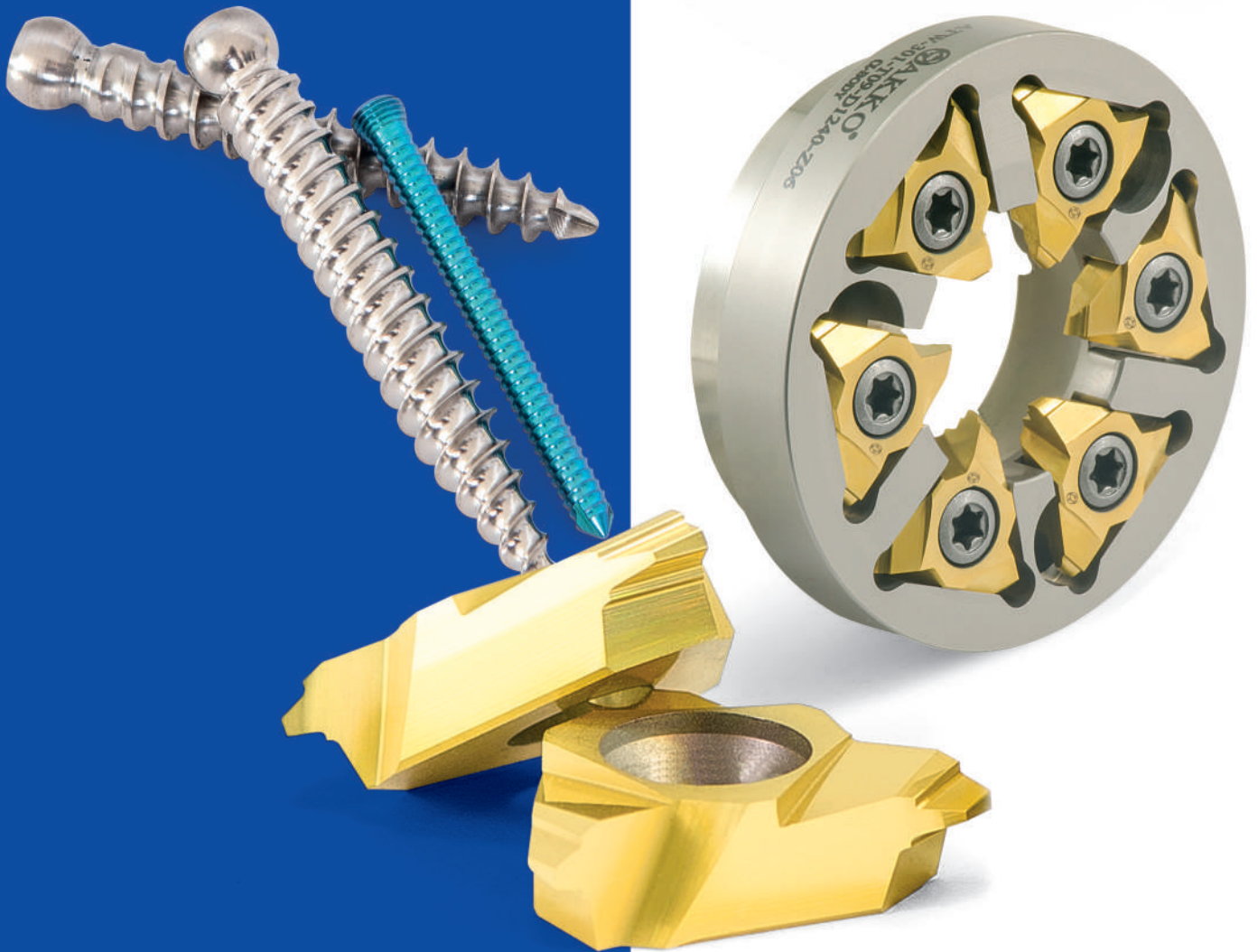


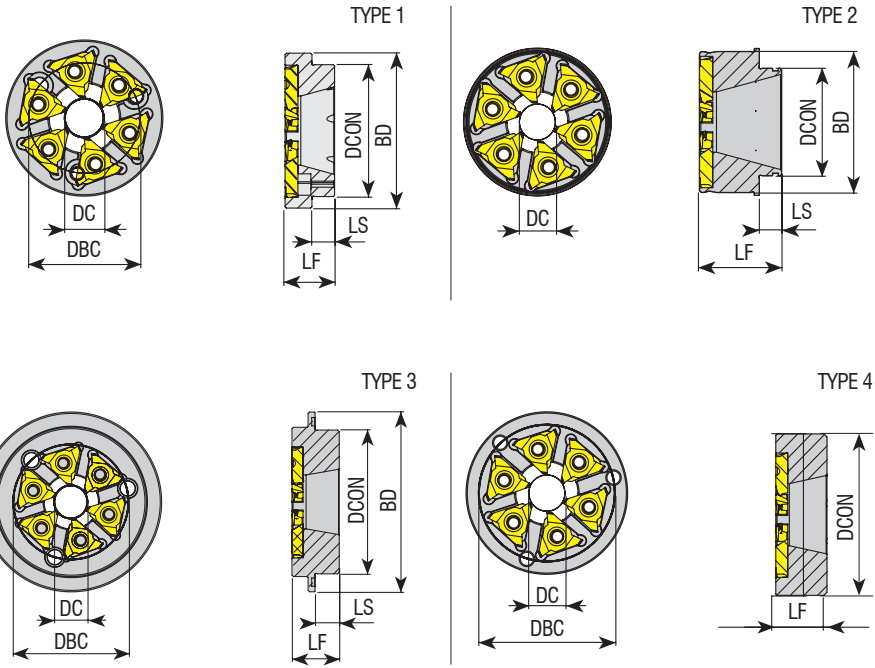
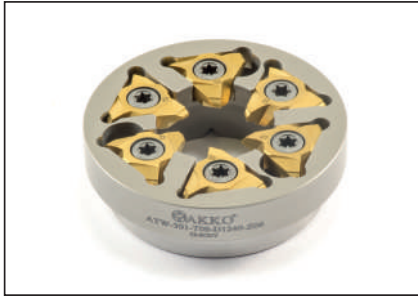
# WHIRLING

**WHIRLING UÇLARI ve TAKIMLARI**

*WHIRLING INSERTS and TOOLHOLDERS*

*WENDESCHNEIDPLATTEN UND WERKZEUGHALTER ZUM  
GEWINDEWIRBELN*





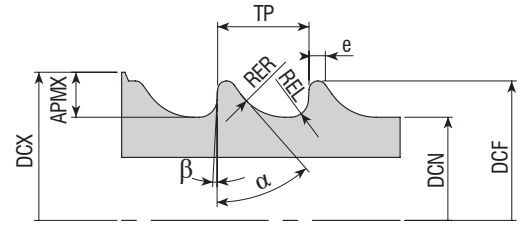
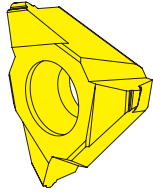
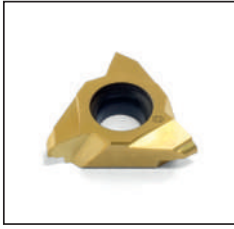
Makine Machine Maschine	Tahrikli WHIRLING Ünitesi Aggregate WHIRLING Unit Wirbelspindel	WHIRLING Ring Kodu WHIRLING Ring Code Wirbelring	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)								Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
				ZEPF	DC	DCON	DBC	BD	LS	LF	TYPE		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
STAR	5914 72 00/68172	ATW-301-T09-D1240-Z06	●	6	12	40	33	47	7	15	1			
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	ATW-304-T09-D1240-Z06	○	6	12	40	32.5	46	2.5	15.5	1			
	LSW101/BSW215/ LSW215315		○	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			
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			
<b>new</b> 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			
<b>new</b> MADAULA	P035.00002	ATW-318-T09-D1245-Z06	○	6	12	45	31.5	52	7	15	1			

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

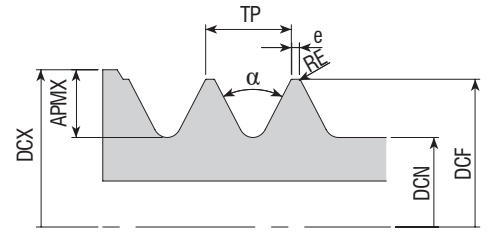
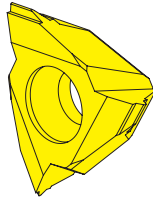
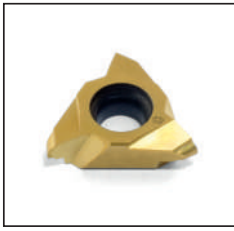
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

Sipariş Örneği/Ordering Example/Bestellbeispiel

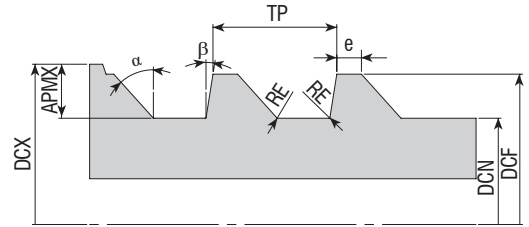
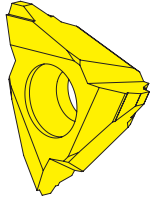
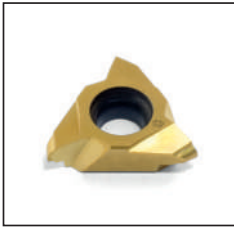
1 ad./pcs./stück ATW-301-T09-D1240-Z06



Uç Kodu Insert Code Wendepplatten-Bezeichnung	Kalite Grade Sorte		Standart ISO5835	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)									
	VK15U	VK15U01		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 Wendepplatten-Bezeichnung	Kalite Grade Sorte		Standart ISO9268	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							
	VK15U	VK15U01		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



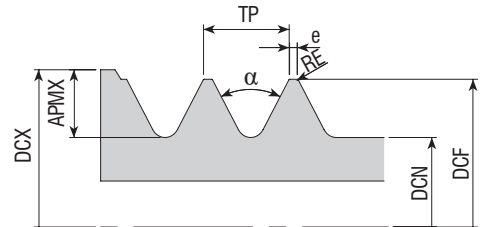
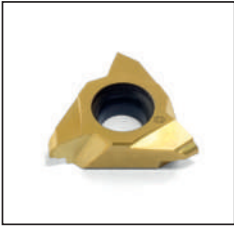
Uç Kodu Insert Code Wendepplatten-Bezeichnung	Kalite Grade Sorte		Standart ISO9268	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)								
	VK15U	VK15U01		TP	e	DCF	DCN	RE	α	β	APMX	DCX
T09.HD400.D12	○	○	HD4.0	1.59	0.1	3.97 to 4.03	2.89 to 2.95	0.01	45°	10°	4	11.5
T09.HD450.D12	○	○	HD4.5	2.18	0.1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

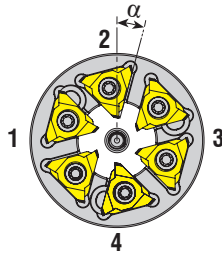
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück T09.HA150.D12



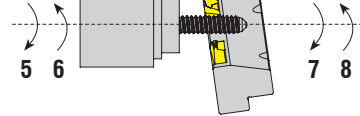
Uç Kodu Insert Code Wendepplatten-Bezeichnung	Kalite Grade Sorte		Standart DIN13	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)						
	VK15U	VK15U01		TP	DCF	DCN	$\alpha$	RE	APMX	DCX
T09.M200.D12	●	●	M2	0.4	2	1.509	60°	0.048	4	9
T09.M250.D12	●	●	M2.5	0.45	2.5	1.928	60°	0.055	4	9.5
T09.M300.D12	●	●	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 Eksen  
Y Axis  
Y Ocb

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

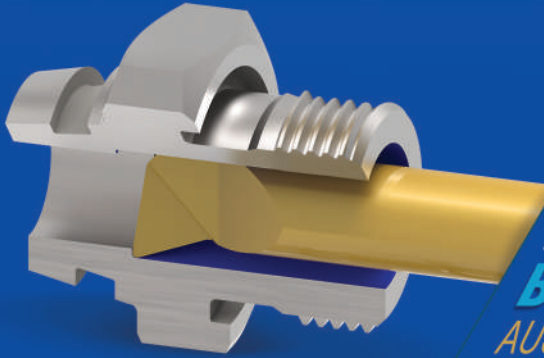
Makine Özellikleri / Machine Specifications / Angaben zur Maschine

Malzeme Özellikleri / Material Specifications / Material Besonderheiten

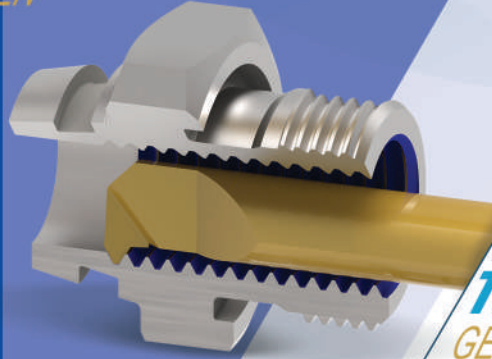
<b>Makine Üreticisi</b> Machine Manufacturer Maschinenhersteller	<b>Malzeme (DIN, AISI v.b.)</b> Material (DIN, AISI etc.) Material DIN, AISI etc.	
<b>Makine Modeli</b> Machine Model Maschinenbezeichnung	<b>Ham Malzeme Çapı</b> Raw Material Diameter Rohmaterial Durchmesser	
<b>Tahrikli WHIRLING Ünitesi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

# MINI CUT

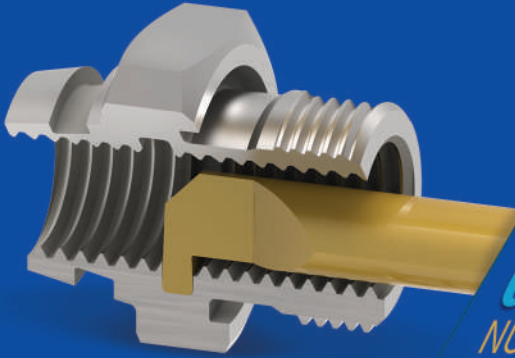
MINI CUT TUTUCU ve TAKIMLARI  
MINI CUT HOLDERS and TOOLS  
MINI CUT HALTER und WERKZEUGE



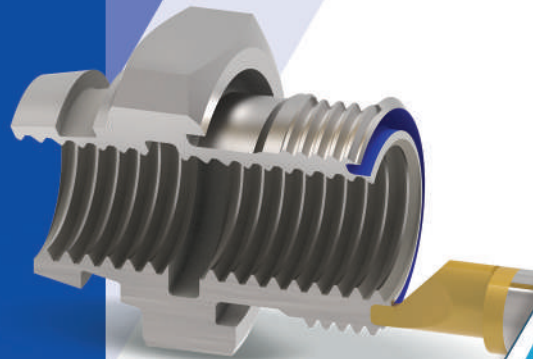
01  
DELİK İÇİ TORNALAMA  
**BORING**  
AUSDREHEN



02  
DIŞ AÇMA  
**THREADING**  
GEWINDEN



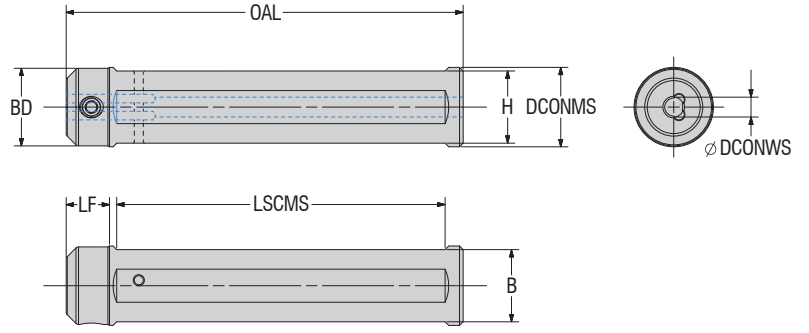
03  
KANAL AÇMA  
**GROOVING**  
NUTENSTECHEN



04  
ALIN KANAL AÇMA  
**FACE GROOVING**  
AXIALSTECHEN



05  
MINI CUT TUTUCU  
**MINI CUT HOLDER**  
MINI CUT HALTER

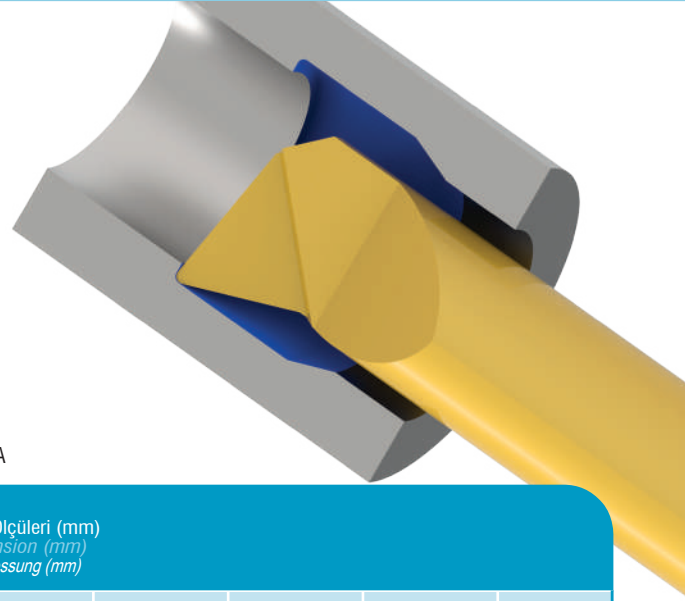
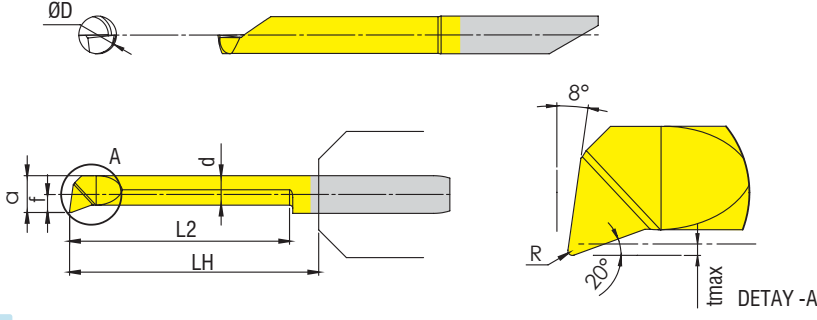


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)							
		DCONWS	OAL	DCONMS	BD	LF	LSCMS	B	H
APCH-16-4-L110-H	○	4	110	16	-	-	92	14	14
APCH-16-5-L110-H	○	5	110	16	-	-	92	14	14
APCH-16-6-L110-H	○	6	110	16	21	13	91	14	14
APCH-16-7-L110-H	○	7	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	91	18.80	18.80
<b>new</b> APCH-20-8-L110-H	●	8	110	20	22.50	15	87	18.80	18.80
<b>new</b> 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
<b>new</b> APCH-22-8-L110-H	●	8	110	22	22.50	15	87	20	20
<b>new</b> 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
<b>new</b> APCH-25-8-L110-H	●	8	110	25	24.50	17	86	23	23
<b>new</b> 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 MINI CUT TAKIMLAR  
MINI CUT BORING / MINI CUT AUSDREHEN



Ürün Kodu  
Product Code  
Artikelnummer

Takım Ölçüleri (mm)  
Dimension (mm)  
Abmessung (mm)

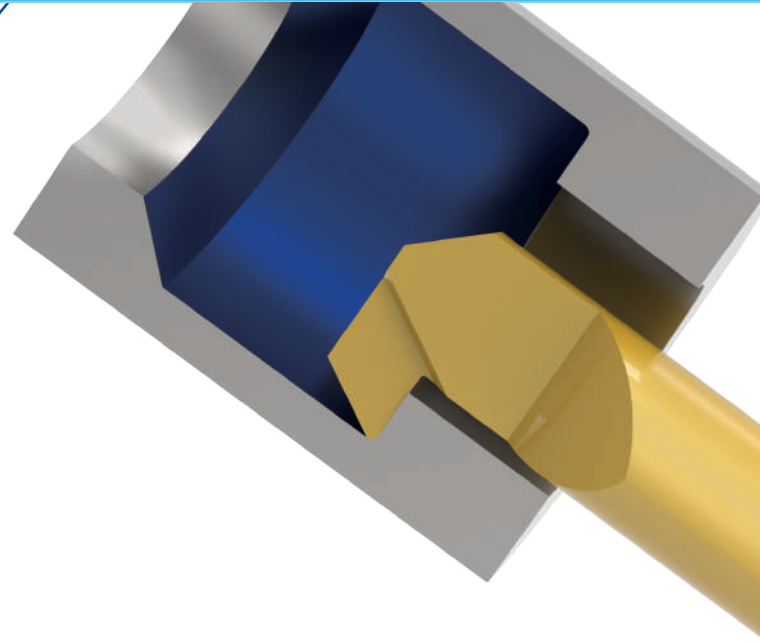
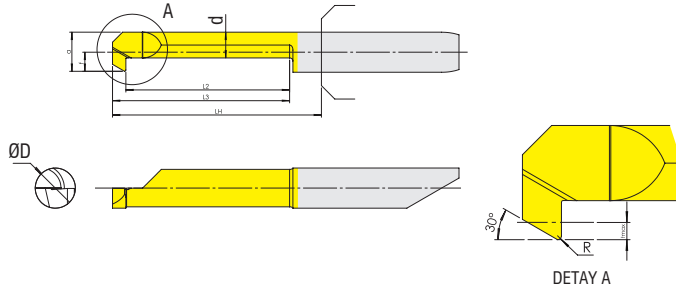
	L2	Ødmin	R	a	d	f	LH	tmax	ØD
<b>new</b> APB.04.102.015.32	10.20	3.2	0.15	2.95	2.55	1.45	13	0.2	4
<b>new</b> APB.04.152.015.32	15.20	3.2	0.15	2.95	2.55	1.45	18	0.2	4
<b>new</b> APB.04.203.015.32	20.30	3.2	0.15	2.95	2.55	1.45	23	0.2	4
<b>new</b> APB.04.254.015.32	25.40	3.2	0.15	2.95	2.55	1.45	28	0.2	4
<b>new</b> APB.04.305.015.32	30.50	3.2	0.15	2.95	2.55	1.45	33	0.2	4
<b>new</b> 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 MINI CUT TAKIMLAR

### MINI CUT BACK BORING / MINI CUT ZURÜCK BOHRUNGE



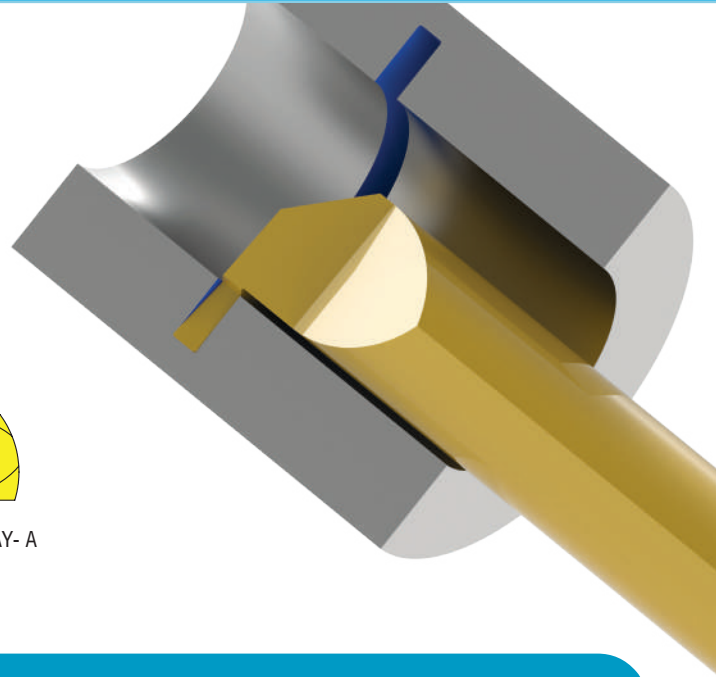
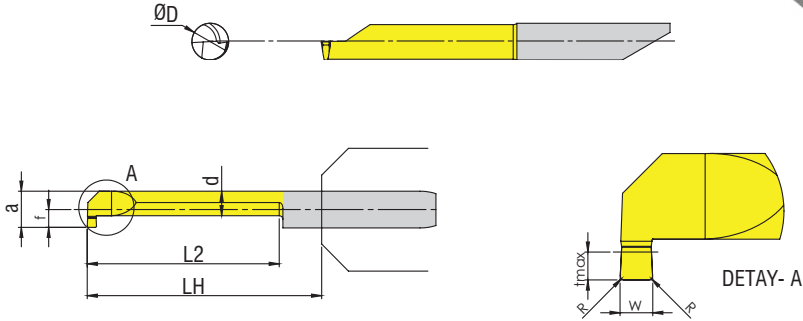
Ürün Kodu  
Product Code  
Artikelnummer

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



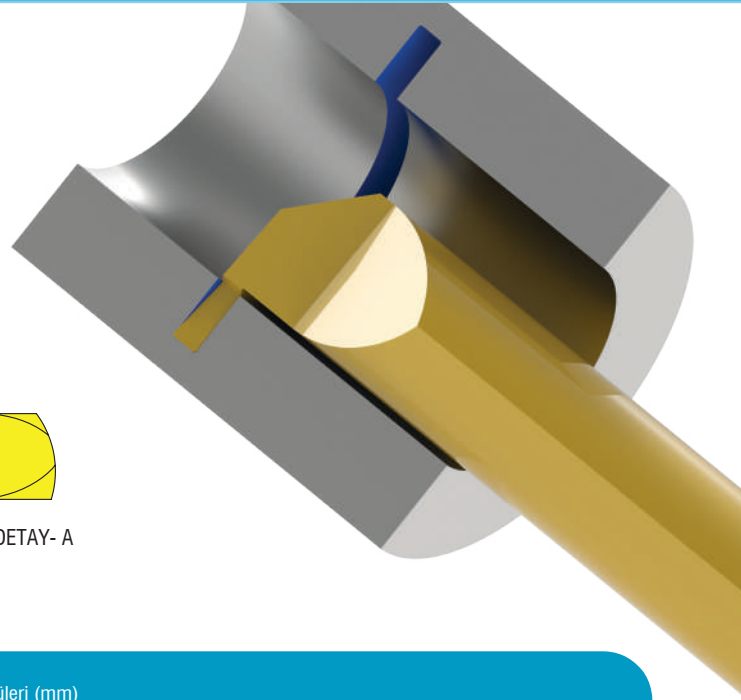
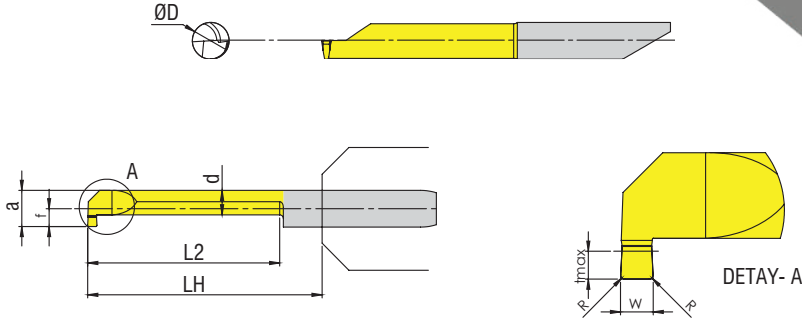
Ürün Kodu  
Product Code  
Artikelnummer

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 MINI CUT TAKIMLAR  
MINI CUT GROOVING / MINI CUT NUTENSTECHEN



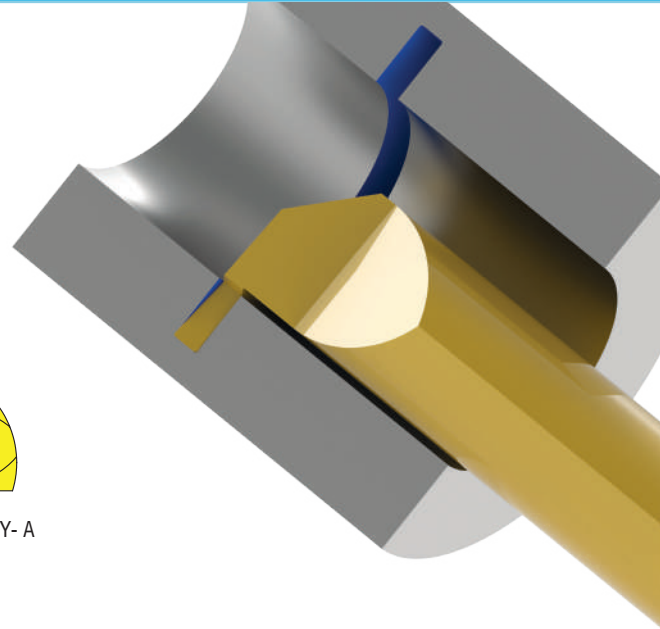
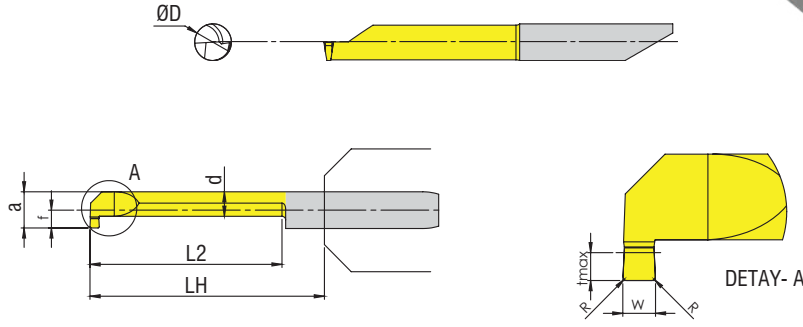
Ürün Kodu  
Product Code  
Artikelnummer

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 MINI CUT TAKIMLAR  
MINI CUT GROOVING / MINI CUT NUTENSTECHEN



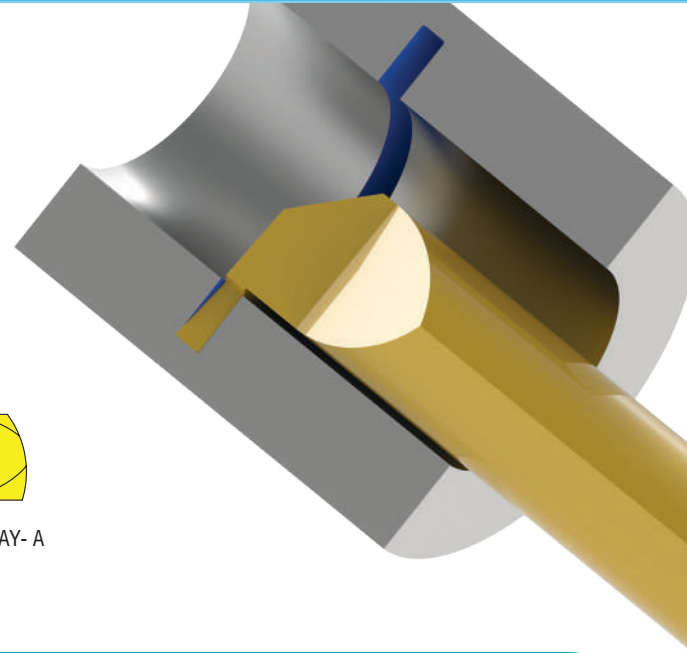
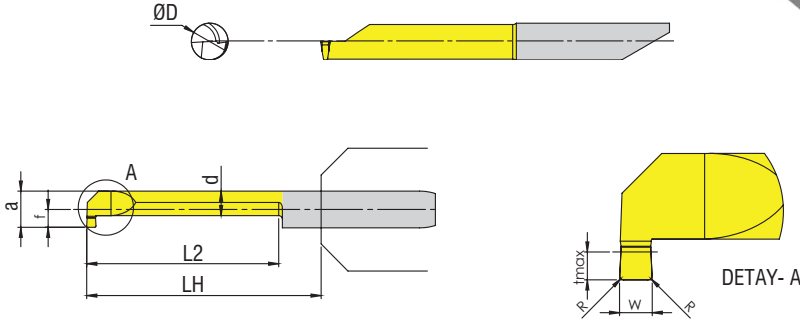
Ürün Kodu  
Product Code  
Artikelnummer

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 MINI CUT TAKIMLAR  
MINI CUT GROOVING / MINI CUT NUTENSTECHEN



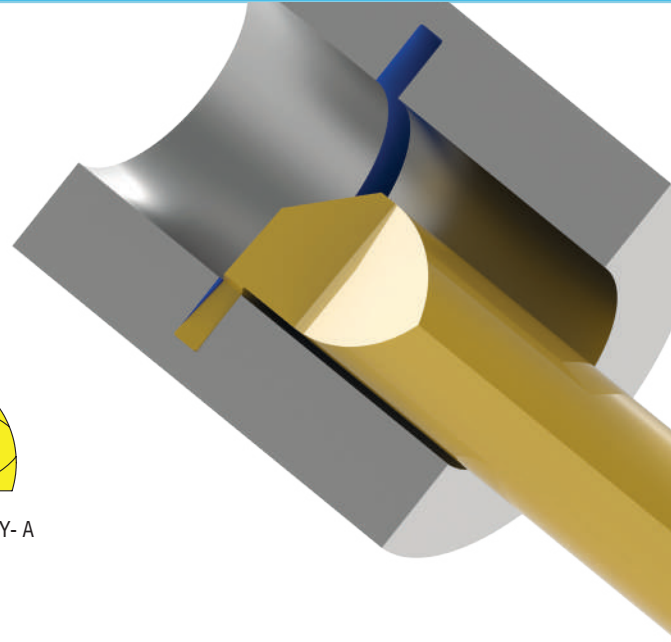
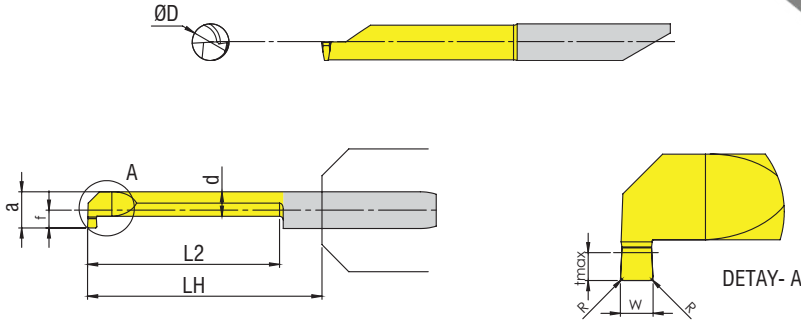
Ürün Kodu  
Product Code  
Artikelnummer

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 MINI CUT TAKIMLAR  
MINI CUT GROOVING / MINI CUT NUTENSTECHEIN



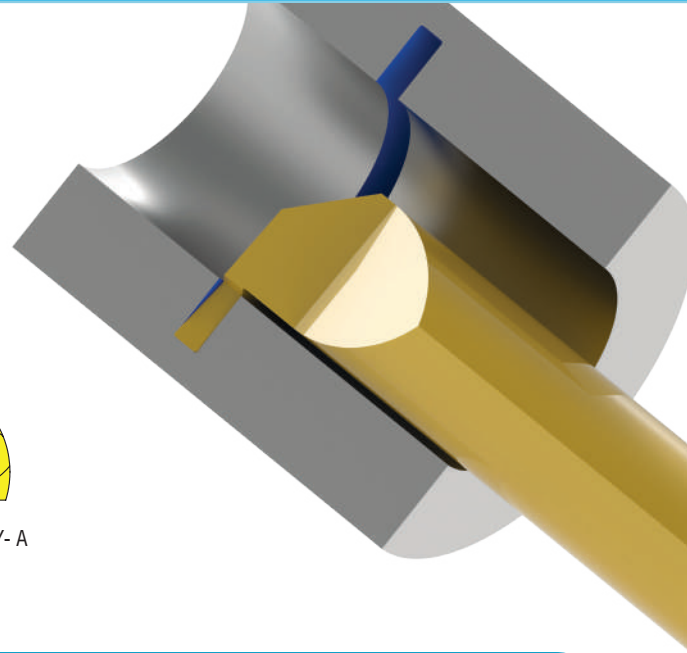
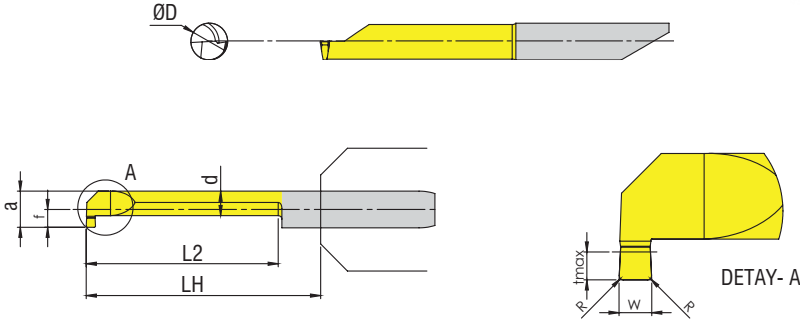
Ürün Kodu  
Product Code  
Artikelnummer

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 MINI CUT TAKIMLAR  
MINI CUT GROOVING / MINI CUT NUTENSTECHEN



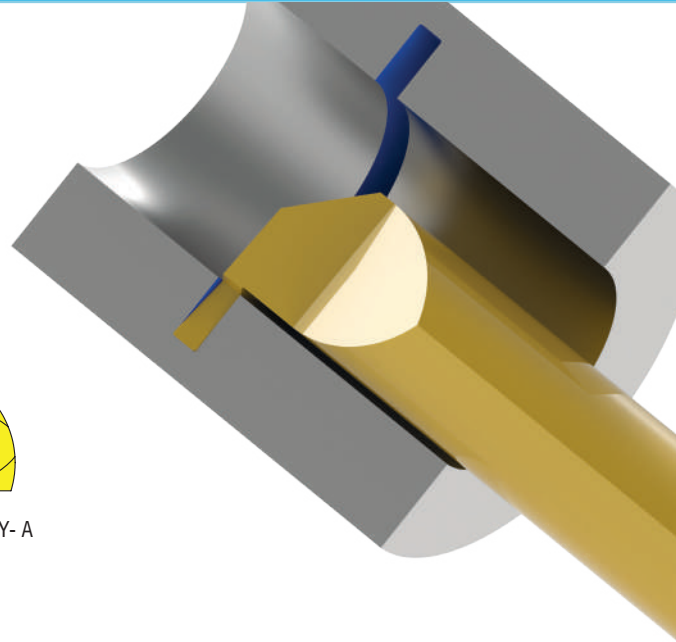
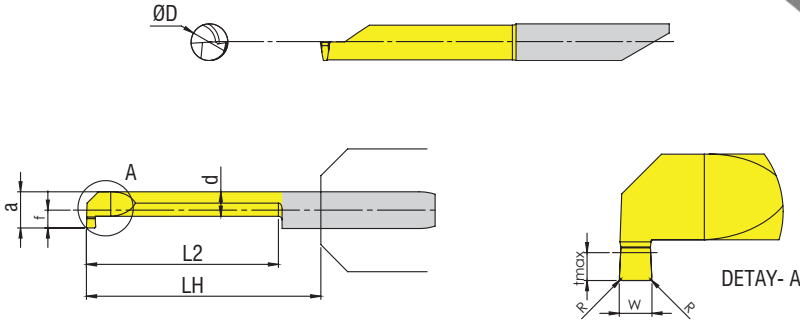
Ürün Kodu  
Product Code  
Artikelnummer

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

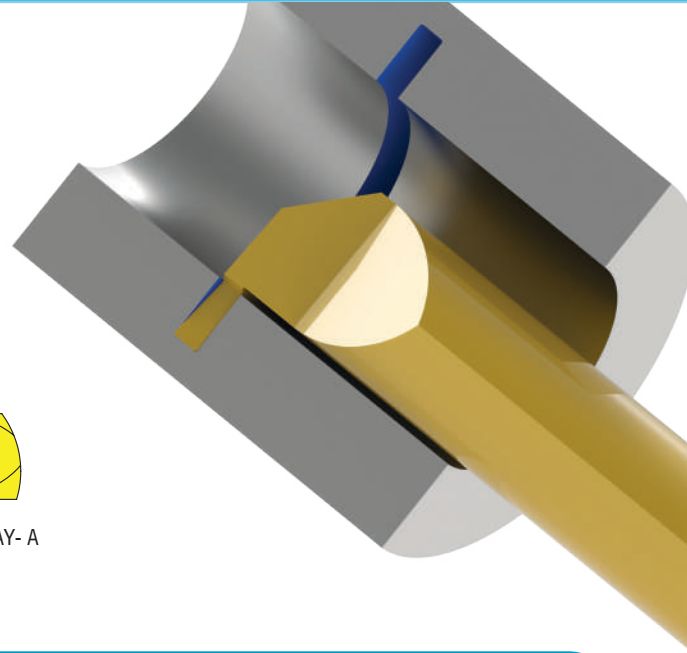
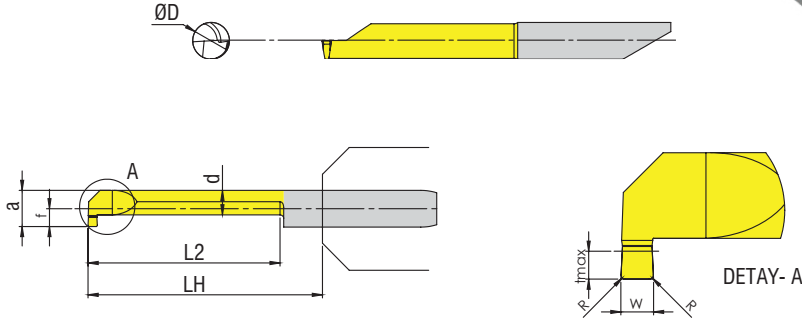
Takım Ölçüleri (mm)  
Dimension (mm)  
Abmessung (mm)

	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 MINI CUT TAKIMLAR  
MINI CUT GROOVING / MINI CUT NUTENSTECHEN



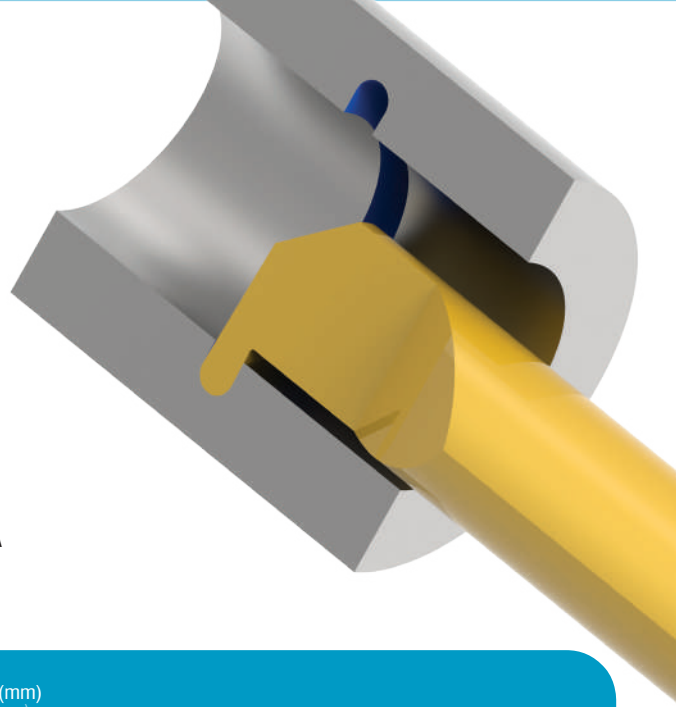
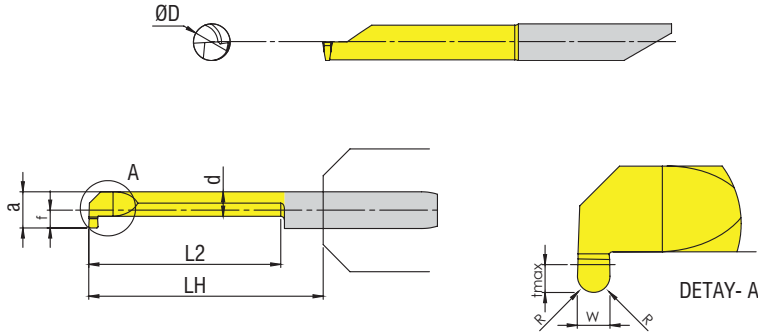
Ürün Kodu  
Product Code  
Artikelnummer

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 NUTENSTECHEIN



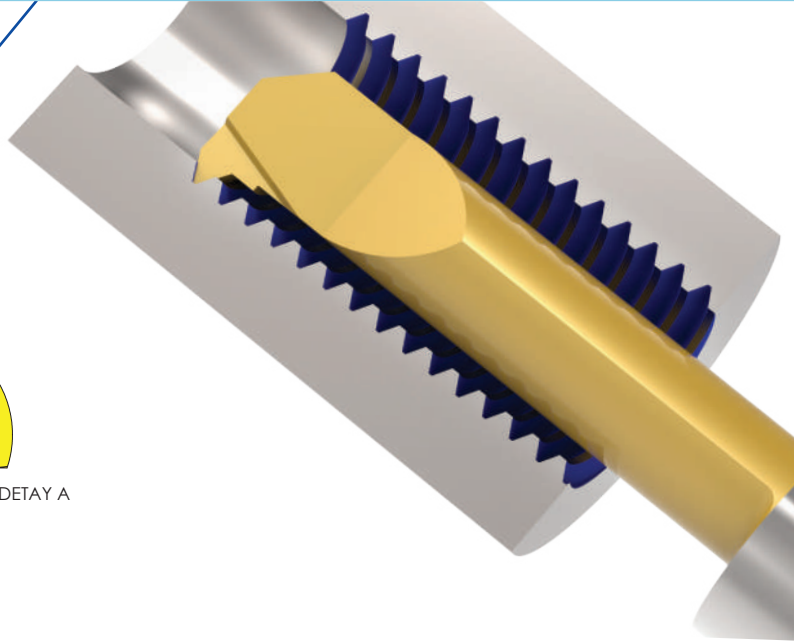
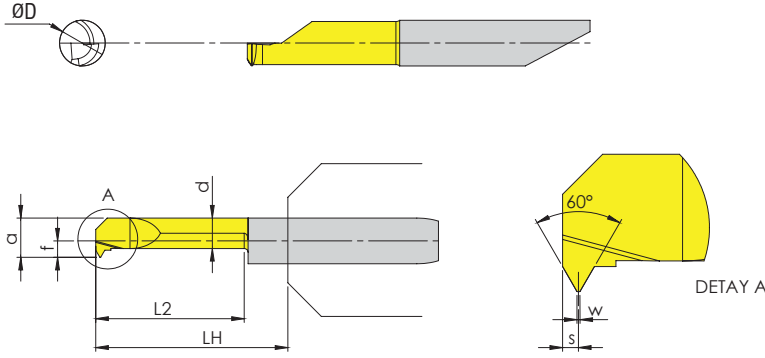
Ürün Kodu  
Product Code  
Artikelnummer

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

**DIŞ ÇEKME MINI CUT TAKIMLAR**  
**MINI CUT THREADING / MINI CUT GEWINDEN**



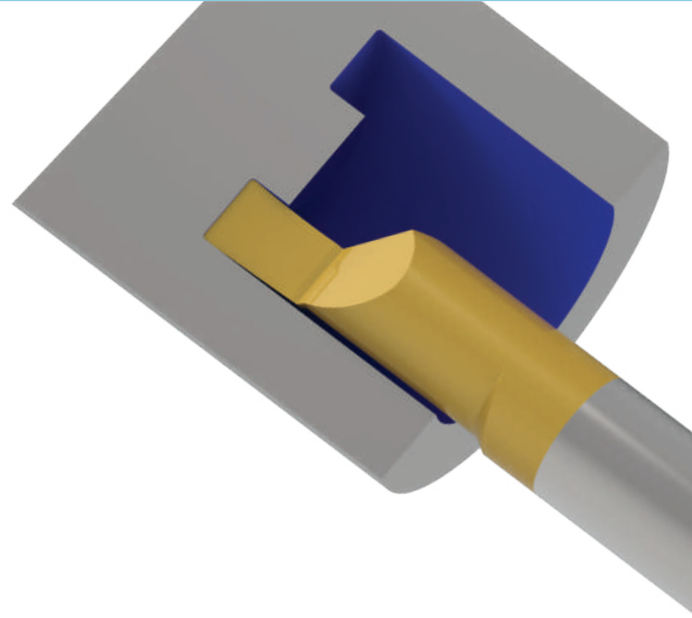
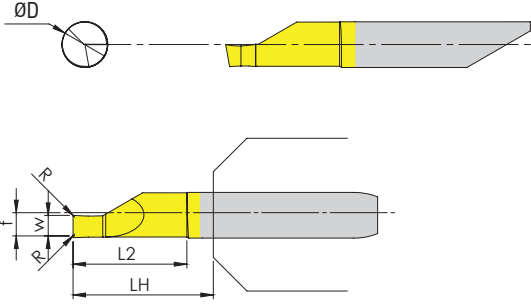
**Ürün Kodu**  
**Product Code**  
**Artikelnummer**

**Takım Ölçüleri (mm)**  
**Dimension (mm)**  
**Abmessung (mm)**

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

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



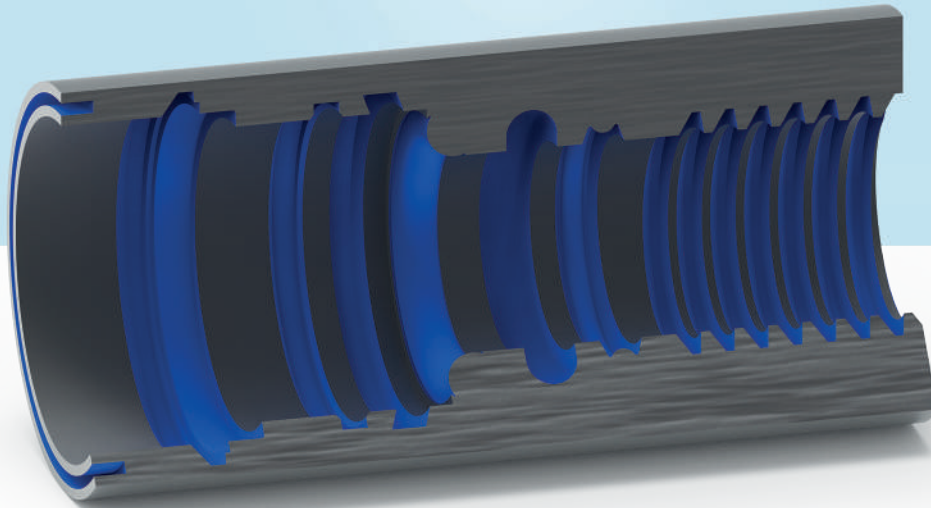
Ürün Kodu  
Product Code  
Artikelnummer

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



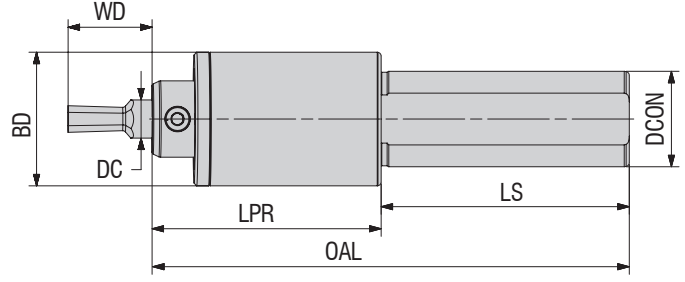
MINI CUT TAKIMLARI BİLGİ ALMA FORMU  
 INFORMATION REQUEST FORM FOR MINI CUT TOOLS  
 INFORMATIONSFORMULAR FÜR MINI CUT WERKZEUGE

TOOL TYPE	TOOL DIMENSIONS					
BORING <input type="checkbox"/>	ØD	ØDmin	L	RE	TMAX	
GROOVING <input type="checkbox"/>				RE - R1,R2	W	TMAX
FACE GROOVING <input type="checkbox"/>				RE - R1,R2	W	TMAX
THREADING <input type="checkbox"/>				CHOOSE THREADING TYPE		
				METRIC <input type="checkbox"/>	NPT <input type="checkbox"/>	UNF/UNC <input type="checkbox"/>
				TRAPEZOIDAL <input type="checkbox"/>	WHITWORTH <input type="checkbox"/>	ACME <input type="checkbox"/>

# TORX - ALYAN / PUNCH - KAZIMA TAKIMLARI

TORX-ALLEN / PUNCH - BROACH SET  
TORX WINKELSCHRAUBENDEHER WERKZEUGE



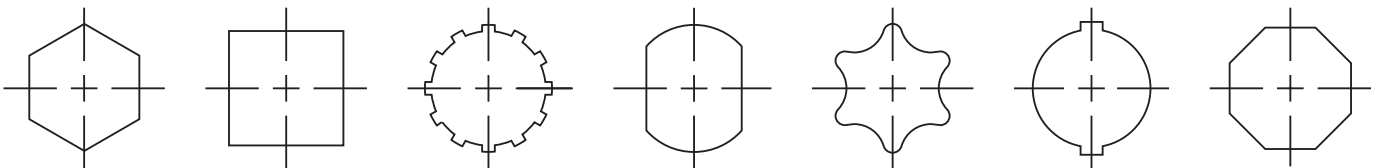
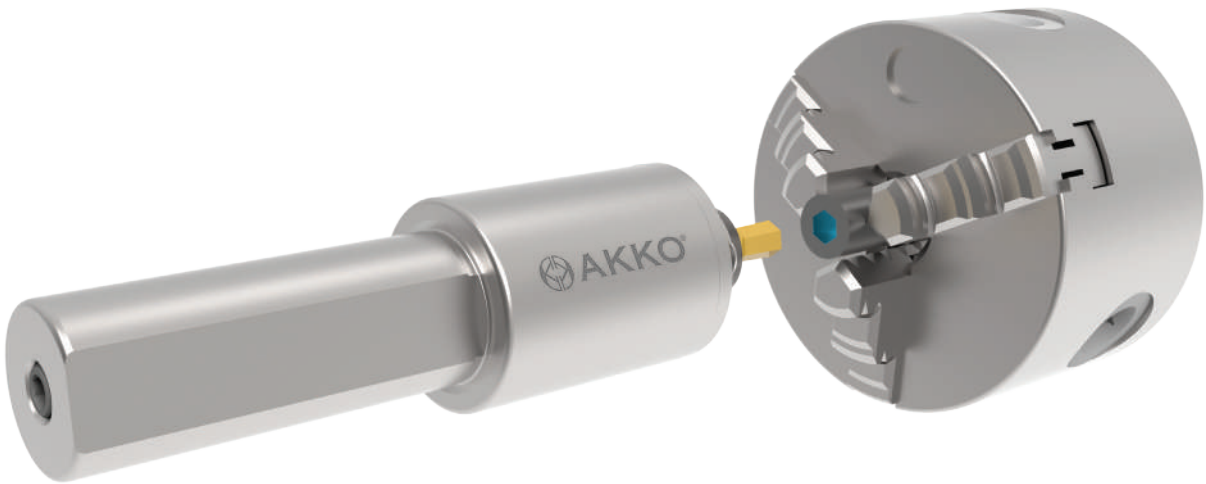


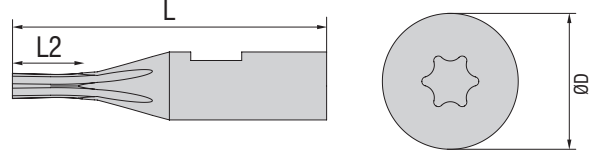
Ürün Kodu  
 Product Code  
 Artikelnummer

Uç Ölçüleri (mm)  
 Insert Dimension (mm)  
 Abmessung (mm)

	BD	DC	WD	LPR	LS	OAL	DCON
<b>new</b> 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
<b>new</b> ABTH-D10-W20-L125	Ø35.00	Ø10.00	22.00	60.00	65.00	125.00	Ø20.00
<b>new</b> ABTH-D10-W22-L125	Ø35.00	Ø10.00	22.00	60.00	65.00	125.00	Ø22.00
<b>new</b> ABTH-D10-W25-L125	Ø35.00	Ø10.00	22.00	60.00	65.00	125.00	Ø25.00
<b>new</b> ABTH-D12-W25-L135	Ø35.00	Ø12.00	22.00	70.00	65.00	135.00	Ø25.00

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



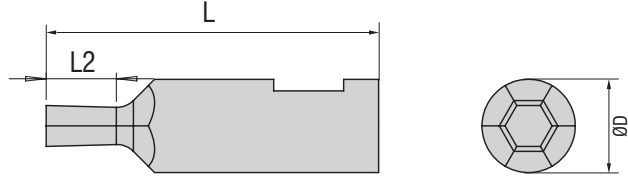


Ürün Kodu  
Product Code  
Artikelnummer

Soket Numarası  
Socket Number  
Seriennummer

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

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



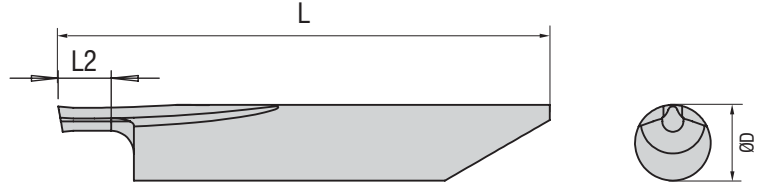
Ürün Kodu  
Product Code  
Artikelnummer

Soket Numarası  
Socket Number  
Seriennummer

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

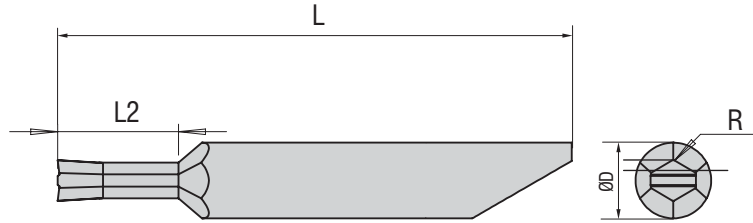
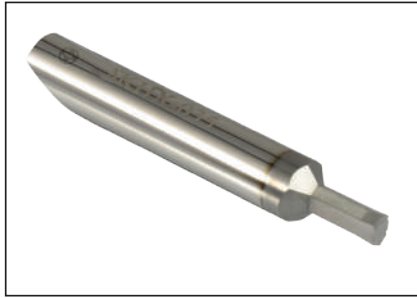
Ürün Kodu Product Code Artikelnummer	Soket Numarası Socket Number Seriennummer	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		
		ØD	L2	L
APHX-0015	A1.5	8	3	30
APHX-0020	A2.0	8	4	30
APHX-0025	A2.5	8	5	30
APHX-0030	A3.0	8	6	30
APHX-0035	A3.5	8	7	30
APHX-0040	A4.0	8	8	30
APHX-0045	A4.5	8	9	30
APHX-0050	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

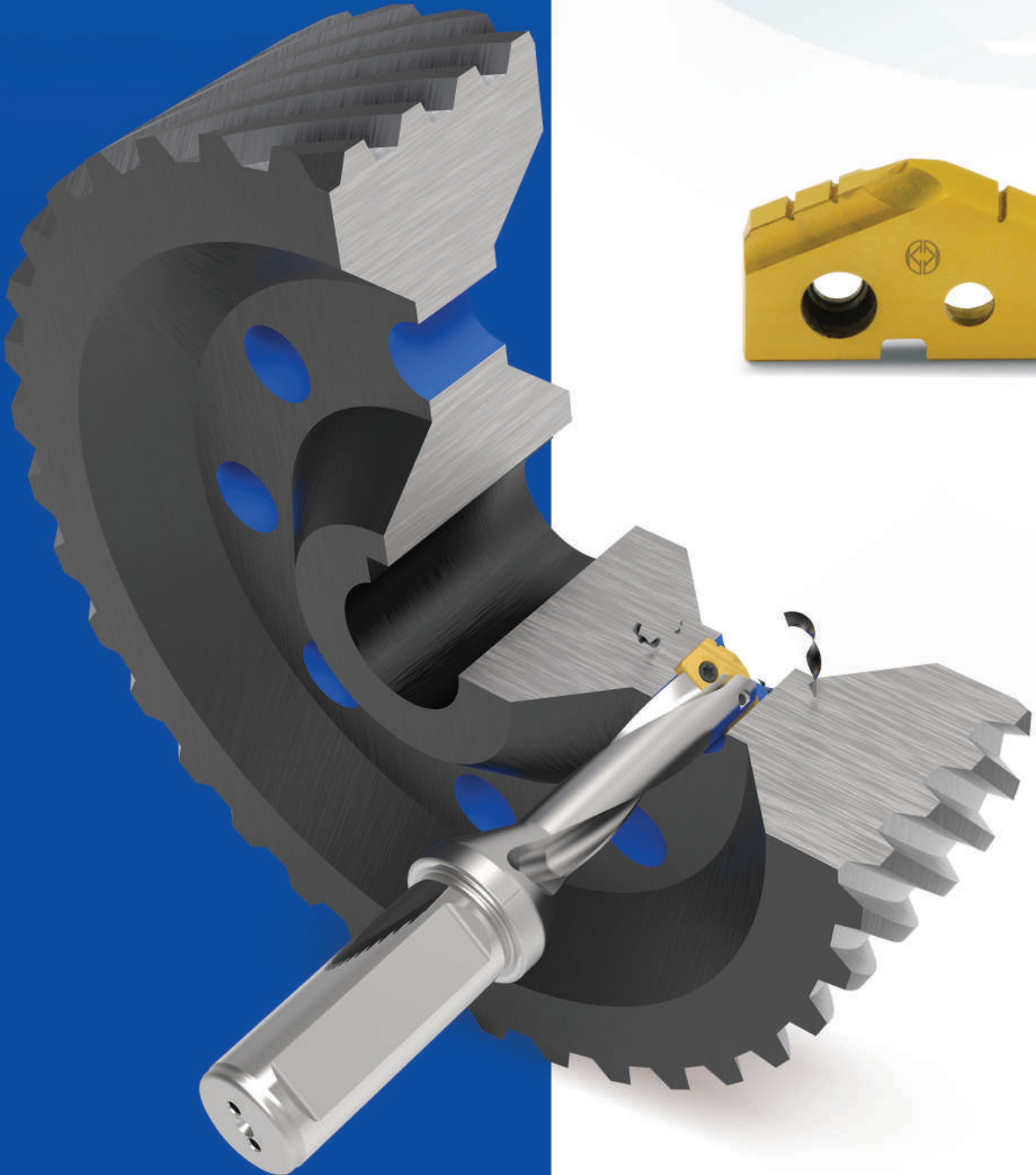


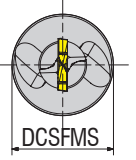
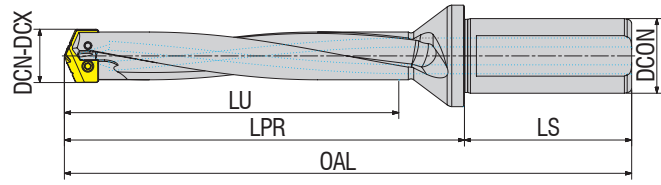
Ürün Kodu Product Code Artikelnummer	Soket Numarası Socket Number Seriennummer	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)			
		ØD	R	L2	L
AKHX-002-002	A2	6	0.05	3	38
<b>new</b> AKHX-025	A2.5	6	0.05	4.5	38
AKHX-003-003	A3	6	0.05	6	38
<b>new</b> AKHX-035	A3.5	6	0.05	7	38
AKHX-004-006	A4-6	6	0.10	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*



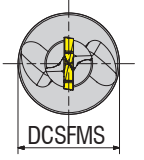
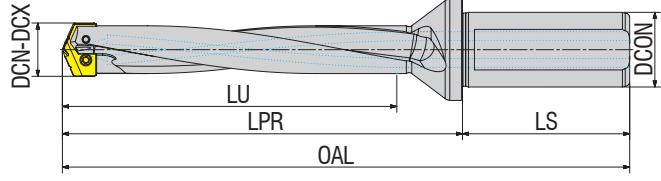


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)								Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DCN	DCX	DCON	DCSFMS	OAL	LU	LPR	LS		Sıkma Vidası Screw Schraube	
ASD-0110-0119-D5-FW20	○	11	11.9	20	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	4008-M3x8	82-T08
ASD-0180-0209-D5-FW25	○	18	20.9	25	34	168	95	112	56	S3 SERIES		
ASD-0210-0244-D5-FW25	○	21	24.4	25	34	183	110	127	56	S3 SERIES	4515-M4x8	80-T15
ASD-0245-0299-D5-FW25	○	24.5	29.9	25	34	198	125	142	56	S4 SERIES		
ASD-0300-0349-D5-FW32	○	30	34.9	32	44	237	155	177	60	S4 SERIES	1020-M5x14	80-T15
ASD-0350-0394-D5-FW32	○	35	39.4	32	44	262	180	202	60	S5 SERIES		
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		

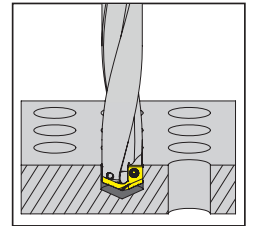
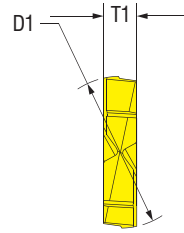
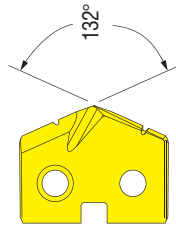
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

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	<b>S1 SERIES</b>	3006-M2x4	82-T06
ASD-0120-0129-D7-FW20	○	12	12.9	20	25	156	89	106	50	<b>S1 SERIES</b>		
ASD-0130-0139-D7-FW20	○	13	13.9	20	25	163	96	113	50	<b>S2 SERIES</b>	3008-M2.5x6	82-T08
ASD-0140-0149-D7-FW20	○	14	14.9	20	25	170	103	120	50	<b>S2 SERIES</b>		
ASD-0150-0164-D7-FW20	○	15	16.4	20	25	177	110	127	50	<b>S2 SERIES</b>		
ASD-0165-0179-D7-FW25	○	16.5	17.9	25	34	190	117	134	56	<b>S2 SERIES</b>	4008-M3x8	82-T08
ASD-0180-0209-D7-FW25	○	18	20.9	25	34	204	131	148	56	<b>S3 SERIES</b>		
ASD-0210-0244-D7-FW25	○	21	24.4	25	34	225	152	169	56	<b>S3 SERIES</b>	4515-M4x8	80-T15
ASD-0245-0299-D7-FW25	○	24.5	29.9	25	34	246	173	190	56	<b>S4 SERIES</b>		
ASD-0300-0349-D7-FW32	○	30	34.9	32	44	297	215	237	60	<b>S4 SERIES</b>	1020-M5x14	80-T15
ASD-0350-0394-D7-FW32	○	35	39.4	32	44	332	250	272	60	<b>S5 SERIES</b>		
ASD-0395-0439-D7-FW40	○	39.5	43.9	40	54	375	278	305	70	<b>S5 SERIES</b>	1020-M5x14	80-T15
ASD-0440-0480-D7-FW40	○	44	48	40	54	410	313	340	70	<b>S5 SERIES</b>		



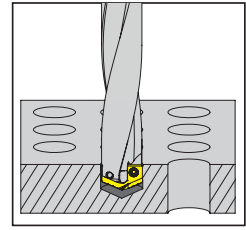
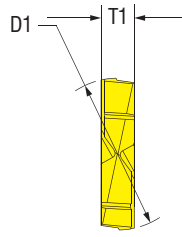
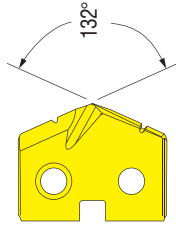
Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplamasız Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles Werkzeug
		D1	T1	Uncoated	Sigma	Epsilon	
ASI.M.1100.SG	○	11.00	2.38	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



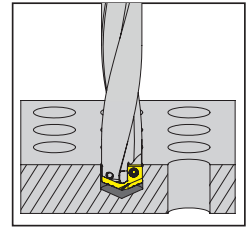
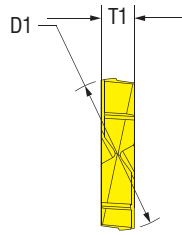
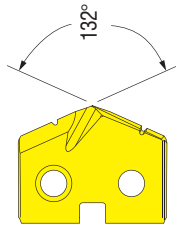
**K** for cast iron / döküm kalite



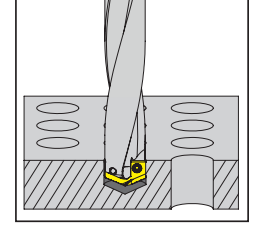
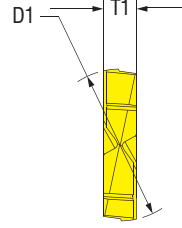
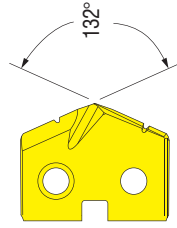
Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplamasız Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles Werkzeug
		D1	T1	Uncoated	Sigma	Epsilon	
ASI.M.1300.SG	○	13.00	3.18	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



**K** for cast iron / döküm kalite



Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplamasız Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles 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



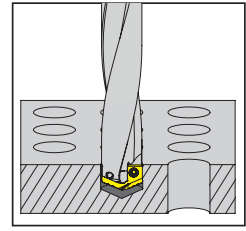
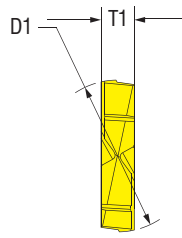
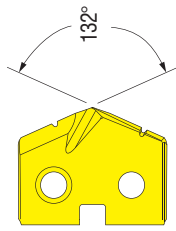
Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplamasız Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles Werkzeug
		D1	T1	Uncoated	Sigma	Epsilon	
ASI.M.2450.SG	○	24.50	4.76	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



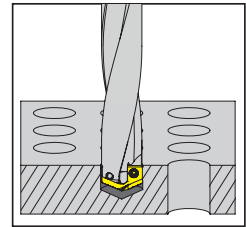
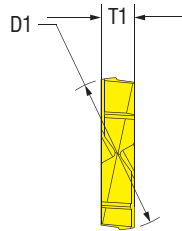
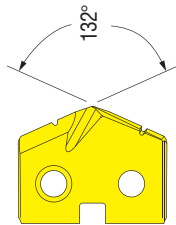
**K** for cast iron / döküm kalite



Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplamasız Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles 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



**K** for cast iron / döküm kalite

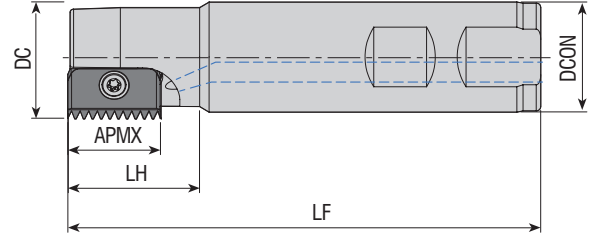


Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplamasız Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles Werkzeug
		D1	T1	Uncoated	Sigma	Epsilon	
ASI.M.4150.SG	○	41.50	6.35	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

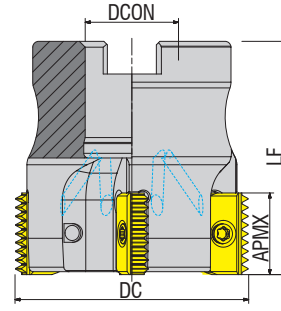
# DİŞ AÇMA UÇLARI ve TAKIMLARI

THREADING INSERTS and TOOLS  
GEWINDESCHNEIDPLATTEN und WERKZEUGE



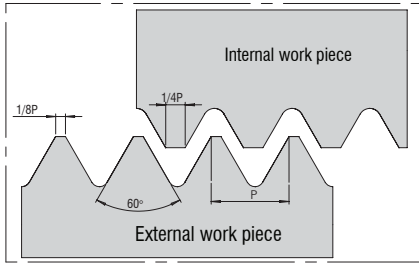


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile		
		DC	ZEFP	DCON	LF	LH	APMX		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel	
ATM-C14-D14-W20-L100-Z01-H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

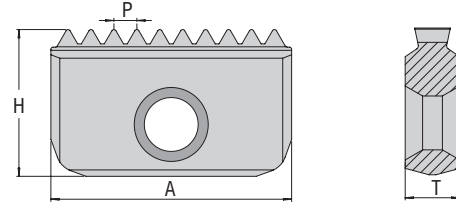


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile			
		DC	ZEFP	DCON	LF	APMX		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel	Montaj Vidası Mounting Screw Befestigungsschraube	
ATM-C14-D040-A16-Z04-H	●	40	4	16	40	14		3008-M2.5x6		82-T08	2506-M8x30
ATM-C21-D063-A22-Z04-H	●	63	4	22	40	21					

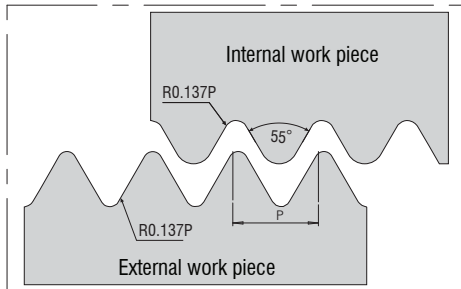
Sipariş Örneği/Ordering Example/Bestellbeispiel  
 1 ad./pcs./stück ATM-C14-D14-W20-L100-Z01-H



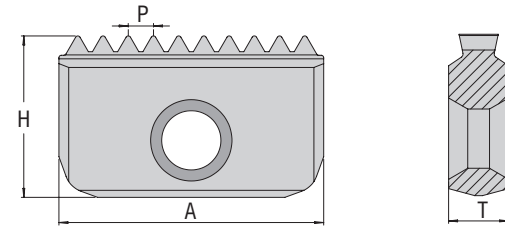
Ürün Kodu Product Code Artikelnummer	Insert Tipi Insert Type Wendepplatten Typ A	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)		
		Adım Pitch Wendepplatten Typ P	H	T
ADTI14.050.M	C14	0.5	7.5	3.1
ADTI14.075.M		0.75	7.5	3.1
ADTE14.075.M		0.75	7.5	3.1
ADTI14.100.M		1.00	7.5	3.1
ADTE14.100.M		1.00	7.5	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



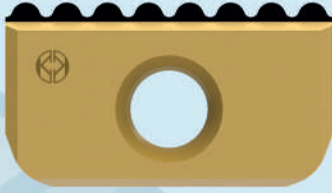
Ürün Kodu Product Code Artikelnummer	Insert Tipi Insert Type Wendepplatten Typ A	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)		
		Adım Pitch Wendepplatten Typ P	H	T
ADTI21.100.M	C21	1.00	12	4.7
ADTE21.100.M		1.00	12	4.7
ADTI21.150.M		1.50	12	4.7
ADTE21.150.M		1.50	12	4.7
ADTI21.175.M		1.75	12	4.7
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



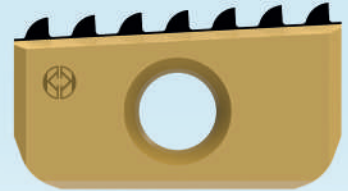
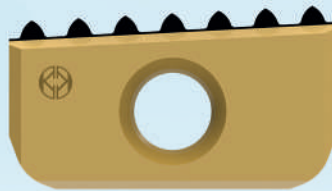
Ürün Kodu Product Code Artikelnummer	Insert Tipi Insert Type Wendepplatten Typ A	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)		
		Adım Pitch Wendepplatten Typ TPI	H	T
ADT14.24.W	C14	24	7.5	3.1
ADT14.20.W		20	7.5	3.1
ADT14.19.W		19	7.5	3.1
ADT14.18.W		18	7.5	3.1
ADT14.16.W		16	7.5	3.1
ADT14.14.W		14	7.5	3.1
ADT14.12.W		12	7.5	3.1
ADT14.11.W		11	7.5	3.1



Ürün Kodu Product Code Artikelnummer	Insert Tipi Insert Type Wendepplatten Typ A	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)		
		Adım Pitch Wendepplatten Typ TPI	H	T
ADT21.24.W	C21	24	12	4.7
ADT21.20.W		20	12	4.7
ADT21.19.W		19	12	4.7
ADT21.18.W		18	12	4.7
ADT21.16.W		16	12	4.7
ADT21.14.W		14	12	4.7
ADT21.12.W		12	12	4.7
ADT21.11.W		11	12	4.7
ADT21.10.W		10	12	4.7



# SPECIAL THREADING MILLING TOOLS



## DİŞ TARAĞI BİLGİ ALMA FORMU

INFORMATION FORM FOR SPECIAL THREAD MILLING INSERTS  
 INFORMATIONSFORM FÜR SONDER GEWINDEFÄRÄSERWERKZEUGE

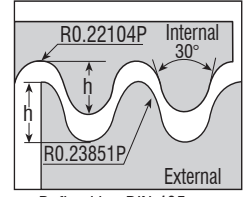
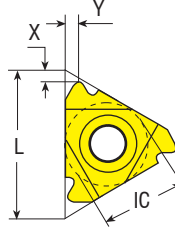
Insert Type	Thread Type	Thread Pitch mm	Thread Profile
C 14	External <input type="checkbox"/> Internal <input type="checkbox"/> Nötr <input type="checkbox"/>		ISO <input type="checkbox"/> UN <input type="checkbox"/> WHIT <input type="checkbox"/> NPT <input type="checkbox"/> NPTF <input type="checkbox"/> BSPT <input type="checkbox"/> NPS <input type="checkbox"/> NPSF <input type="checkbox"/> PG <input type="checkbox"/>
C 21	External <input type="checkbox"/> Internal <input type="checkbox"/> Nötr <input type="checkbox"/>		ISO <input type="checkbox"/> UN <input type="checkbox"/> WHIT <input type="checkbox"/> NPT <input type="checkbox"/> NPTF <input type="checkbox"/> BSPT <input type="checkbox"/> NPS <input type="checkbox"/> NPSF <input type="checkbox"/> PG <input type="checkbox"/>



## ROUND

Diş çap / External / Außen

EX-RH  
IN-LH



Defined by: DIN 405

### Uç Kodu Insert Code

Wendeplatten-Bezeichnung

Stok  
Stock  
Lager

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

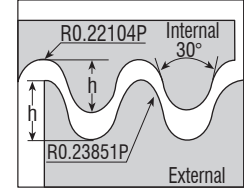
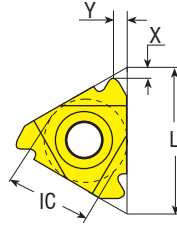
R	L	IC	L	Adım / Pitch / Wendeplatten Typ	(TPI)	h	X	Y	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
16ST ER/L 10RD	○ ○	9.53	16	10		1.27	1.1	1.2	SER/L .....16C
16ST ER/L 8RD	○ ○	9.53	16	8		1.59	1.4	1.3	
16ST ER/L 6RD	○ ○	9.53	16	6		2.12	1.5	1.7	
22ST ER/L 6RD	○ ○	13	22	6		2.12	1.5	1.7	SER/L .....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	



## ROUND

İç çap / Internal / Innen

IN-RH  
EX-LH



Defined by: DIN 405

### Uç Kodu Insert Code

Wendeplatten-Bezeichnung

Stok  
Stock  
Lager

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

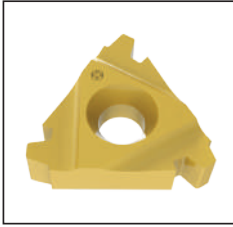
R	L	IC	L	Adım / Pitch / Wendeplatten Typ	(TPI)	h	X	Y	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
16ST IR/L 10RD	○ ○	9.53	16	10		1.27	1.1	1.2	SIR/L ..... 16C
16ST IR/L 8RD	○ ○	9.53	16	8		1.59	1.4	1.3	
16ST IR/L 6RD	○ ○	9.53	16	6		2.12	1.5	1.7	
22ST IR/L 6RD	○ ○	13	22	6		2.12	1.5	1.7	SIR/L 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	

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

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

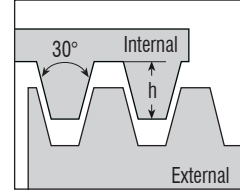
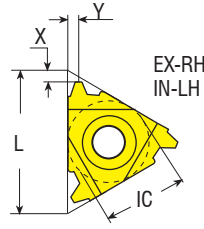
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück 16ST ER 10RD



## TRAPEZ

Diş çap / External / Außen



Defined by: DIN 103

### Uç Kodu

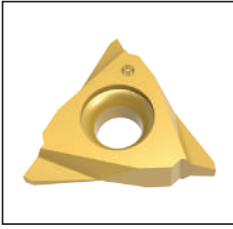
### Insert Code

Wendeplatten-Bezeichnung

Stok  
Stock  
Lager

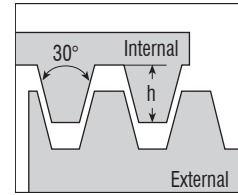
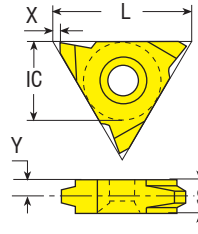
Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

R	L	IC	L	Adım / Pitch / Wendeplatten Typ	h	X	Y	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
○	○	9.53	16	1.5	0.90	1.0	1.1	SER/L 2525 M16C-T
○	○	9.53	16	2.0	1.25	1.1	1.3	
○	○	9.53	16	2.5	1.55	1.2	1.4	
○	○	9.53	16	3.0	1.75	1.3	1.5	
○	○	13	22	4.0	2.25	1.7	1.9	SER/L 2525 M22C-T
○	○	13	22	5.0	2.75	2.1	2.5	
○	○	13	22	6.0	3.50	2.3	2.7	
○	○	15.88	27	6.0	3.50	2.3	2.7	TER/L ....27



## TRAPEZ

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



Defined by: DIN 103

### Uç Kodu

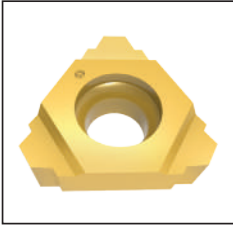
### Insert Code

Wendeplatten-Bezeichnung

Stok  
Stock  
Lager

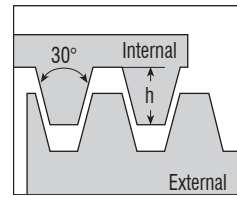
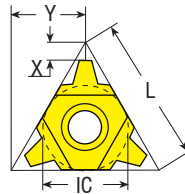
Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

R	L	IC	L	Adım / Pitch / Wendeplatten Typ	h	X	Y	S
○	○	15.88	27	6.0	3.50	1.0	3.3	6.38
○	○	15.88	27	7.0	4.00	1.0	3.3	6.38
○	○	15.88	27	8.0	4.50	1.0	3.3	6.38



## TRAPEZ

Diş çap / External / Außen  
U Tip / U Type / U Typ



Defined by: DIN 103

### Uç Kodu

### Insert Code

Wendeplatten-Bezeichnung

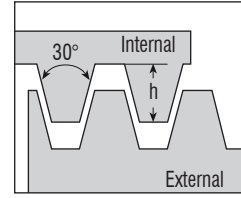
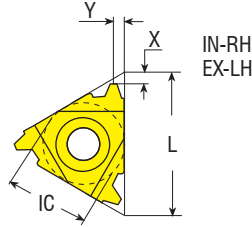
Stok  
Stock  
Lager

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

R	L	IC	L	Adım / Pitch / Wendeplatten Typ	h	X	Y
○	○	13	22	6.0	3.50	2.0	11.0
○	○	13	22	7.0	4.0	2.3	11.0
○	○	13	22	8.0	4.50	2.6	11.0
○	○	15.88	27	8.0	4.50	2.6	13.7
○	○	15.88	27	9.0	5.00	3.0	13.7



**TRAPEZ**  
İç çap / Internal / Innen



Defined by: DIN 103

**Uç Kodu**  
**Insert Code**  
Wendeplatten-Bezeichnung

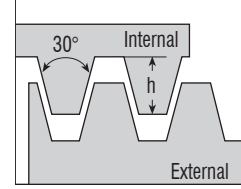
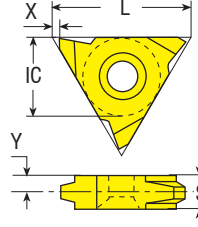
Stok  
Stock  
Lager

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

R	L	IC	L	Adım / Pitch / Wendeplatten Typ	h	X	Y	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
○	○	9.53	16	1.5	0.90	1.0	1.1	SIR/L S25R 16C-T
○	○	9.53	16	2.0	1.25	1.1	1.3	
○	○	9.53	16	2.5	1.53	1.2	1.4	
○	○	9.53	16	3.0	1.75	1.3	1.5	
○	○	13	22	4.0	2.25	1.7	1.9	SIR/L S25R 22C-T
○	○	13	22	5.0	2.75	2.1	2.5	
○	○	13	22	6.0	3.50	2.3	2.7	
○	○	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



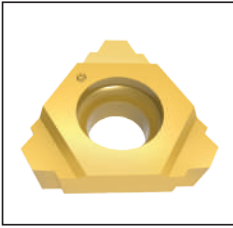
Defined by: DIN 103

**Uç Kodu**  
**Insert Code**  
Wendeplatten-Bezeichnung

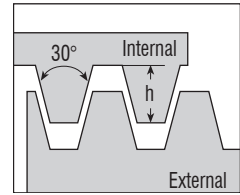
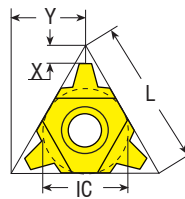
Stok  
Stock  
Lager

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

R	L	IC	L	Adım / Pitch / Wendeplatten Typ	h	X	Y	S
○	○	15.88	27	6.0	3.50	1.0	3.3	6.38
○	○	15.88	27	7.0	4.00	1.0	3.3	6.38
○	○	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)

R	L	IC	L	Adım / Pitch / Wendeplatten Typ	h	X	Y
○	○	13	22	6.0	3.50	2.0	11.0
○	○	13	22	7.0	4.0	2.3	11.0
○	○	13	22	8.0	4.50	2.6	11.0
○	○	15.88	27	8.0	4.50	2.6	13.7
○	○	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

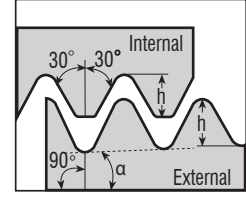
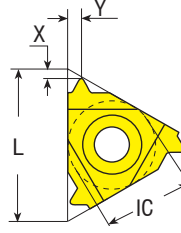
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück 216ST IR 1.5TR



### OIL AND GAS INDUSTRY

Diş çap / External / Außen



Defined by: API SPEC. 7:1990

#### Uç Kodu Insert Code

Wendeplatten-Bezeichnung

Stok  
Stock  
Lager

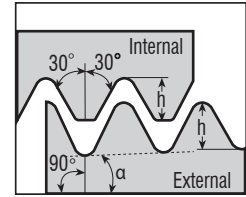
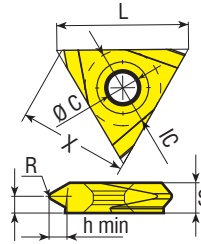
Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

R	L	Diş / Thread / Gewinde	IC	Adım / Pitch / (TPI) Wendeplatten Typ	Koniklik / Taper / Konisch	hmin	X	Y	L	Bağlantı numarası veya boyutu / Connection no. or size
○	○	V-0.038R	13	4	2	3.09	2.1	2.8	22	NC23-NC50
○	○	V-0.038R	13	4	3	3.08	2.1	2.8	22	NC56-NC77
○	○	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
○	○	V-0.050	13	4	3	3.74	2.0	2.9	22	5 1/2", 7 5/8", 8 5/8" REG
○	○	V-0.040	13	5	3	2.99	1.8	2.6	22	2 3/8"-4 1/2" REG
○	○	V-0.055	13	6	1.5	1.41	2.6	2.0	22	NC10-NC16
○	○	V-0.038R	15.88	4	2	3.09	2.1	2.8	27	NC23-NC50
○	○	V-0.038R	15.88	4	3	3.08	2.1	2.8	27	NC56-NC77
○	○	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
○	○	V-0.050	15.88	4	3	3.74	2.1	3.1	27	5 1/2", 7 5/8", 8 5/8" REG
○	○	V-0.040	15.88	5	3	2.99	1.9	2.7	27	2 3/8"-4 1/2" REG
○	○	V-0.065	15.88	4	2	2.81	2.3	2.8	27	2 3/8" IF- 5 1/2 IF



### OIL AND GAS INDUSTRY

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



Defined by: API SPEC. 7:1990

#### Uç Kodu Insert Code

Wendeplatten-Bezeichnung

Stok  
Stock  
Lager

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

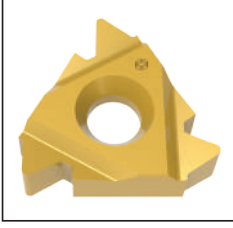
R	L	Diş / Thread / Gewinde	IC	Adım / Pitch / (TPI) Wendeplatten Typ	Koniklik / Taper / Konisch	R	hmin	S	C	X	Y	L	Bağlantı numarası veya boyutu / Connection no. or size
○	○	V-0.040	15.88	5	3	0.51	3.00	6.38	6.20	23.4	3.9	27	2 3/8"-4 1/2" REG

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

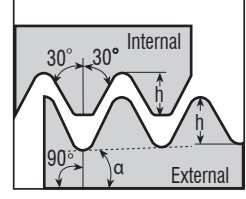
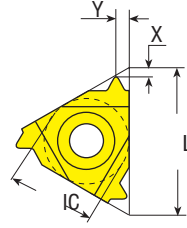
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

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

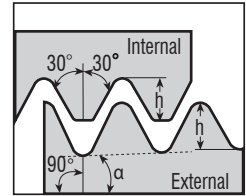
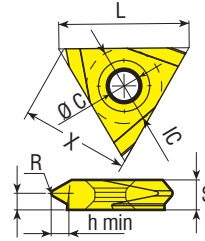
Stok  
Stock  
Lager

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

R	L	Diş / Thread / Gewinde	IC	Adım / Pitch / (TPI) Wendeplatten Typ	Koniklik / Taper / Konisch	hmin	X	Y	L	Bağlantı numarası veya boyutu / Connection no. or size
○	○	V-0.038R	13	4	2	3.09	2.1	2.8	22	NC23-NC50
○	○	V-0.038R	13	4	3	3.08	2.1	2.8	22	NC56-NC77
○	○	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
○	○	V-0.050	13	4	3	3.74	2.0	2.9	22	5 1/2", 7 5/8", 8 5/8" REG
○	○	V-0.040	13	5	3	2.99	1.8	2.6	22	2 3/8"-4 1/2" REG
○	○	V-0.055	13	6	1.5	1.41	2.6	2.0	22	NC10-NC16
○	○	V-0.038R	15.88	4	2	3.09	2.1	2.8	27	NC23-NC50
○	○	V-0.038R	15.88	4	3	3.08	2.1	2.8	27	NC56-NC77
○	○	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
○	○	V-0.050	15.88	4	3	3.74	2.1	3.1	27	5 1/2", 7 5/8", 8 5/8" REG
○	○	V-0.040	15.88	5	3	2.99	1.9	2.7	27	2 3/8"-4 1/2" REG
○	○	V-0.065	15.88	4	2	2.81	2.3	2.8	27	2 3/8" IF- 5 1/2 IF



**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

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

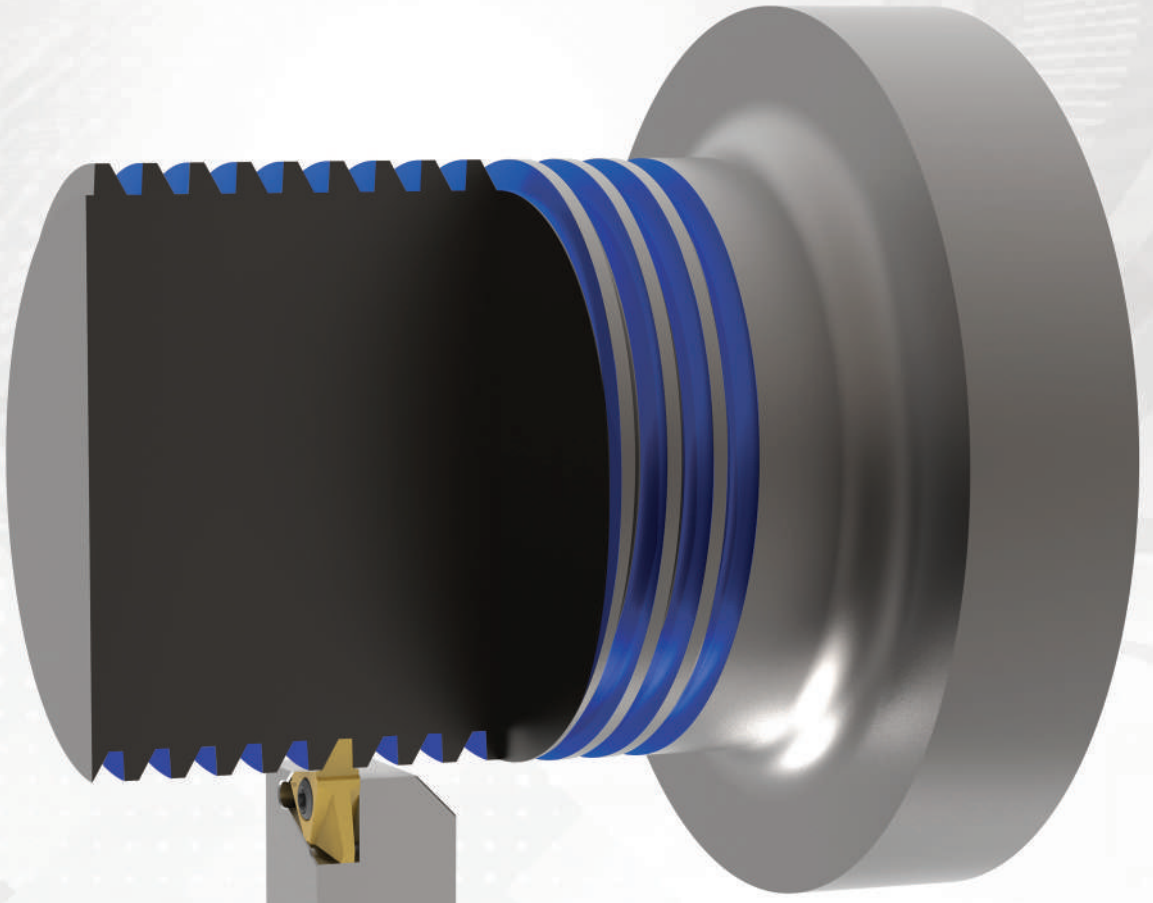
R	L	Diş / Thread / Gewinde	IC	Adım / Pitch / (TPI) Wendeplatten Typ	Koniklik / Taper / Konisch	R	hmin	S	C	X	Y	L	Bağlantı numarası veya boyutu / Connection no. or size
○	○	V-0.040	15.88	5	3	0.51	3.00	6.38	6.20	23.4	3.9	27	2 3/8"-4 1/2" REG

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



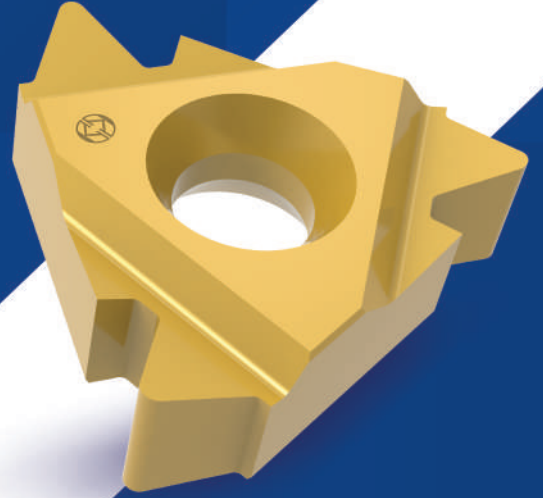
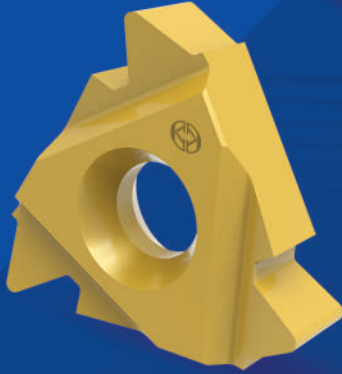
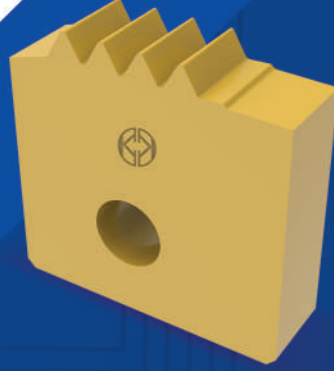
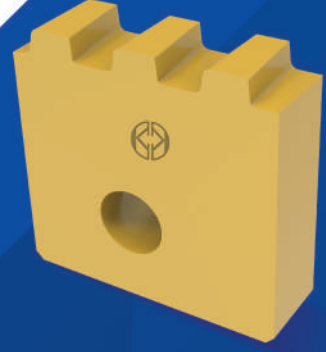
- **DİŞ AÇMA  
ÖZEL ÇÖZÜMLER**
- **SPECIAL SOLUTIONS  
FOR THREAD MILLING**
- **GEWINDE LÖSUNGEN**

[www.akko.com.tr](http://www.akko.com.tr)

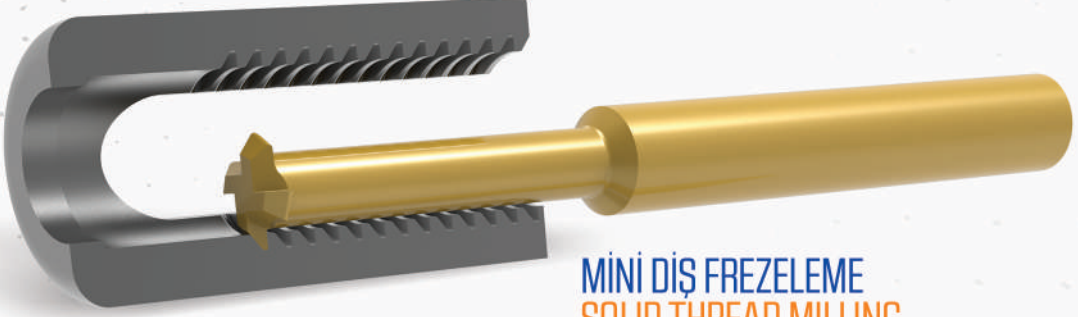


AKKO®

**DIŞ AÇMA ÇÖZÜMLERİ**  
**THREADING SOLUTIONS**  
**GEWINDE LÖSUNGEN**



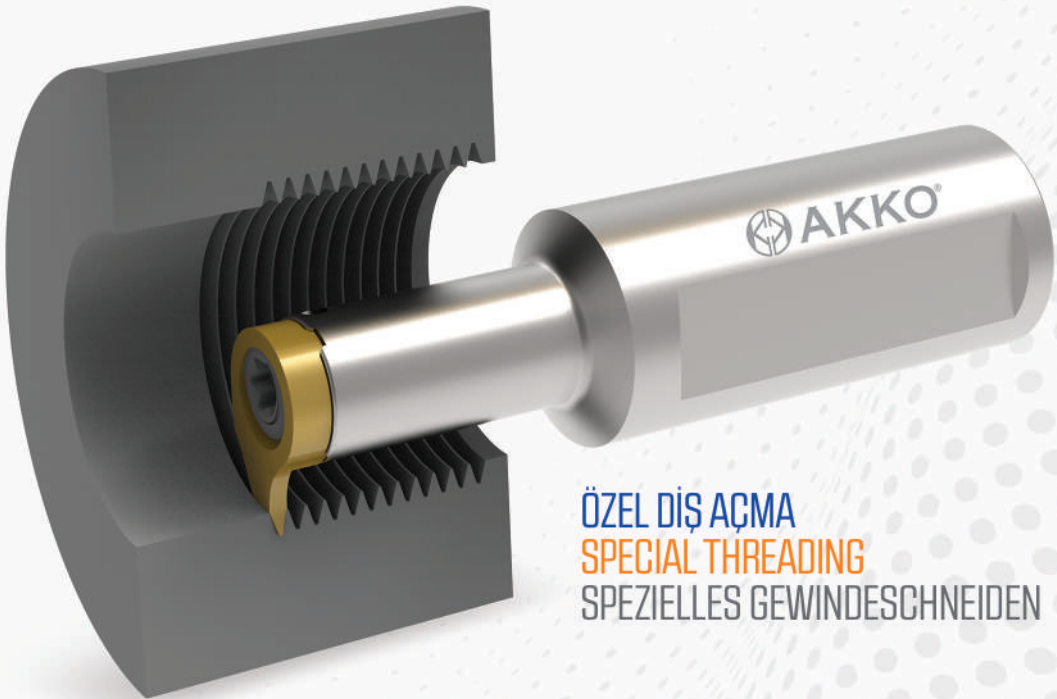
**DIŞ AÇMA ÇÖZÜMLERİ**  
**THREADING SOLUTIONS**  
**GEWINDE LÖSUNGEN**



**MINI DIŞ FREZELEME**  
**SOLID THREAD MILLING**  
**SOLIDE GEWINDEFRESEN**



**MINI CUT ÖZEL DIŞ AÇMA**  
**MINI CUT SPECIAL THREADING**  
**SPEZIELLES GEWINDESCHNEIDEN MINI CUT**



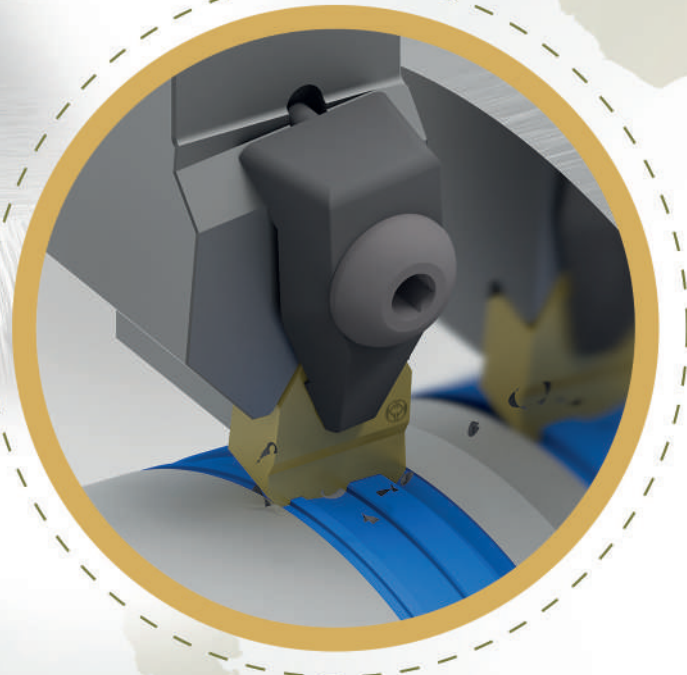
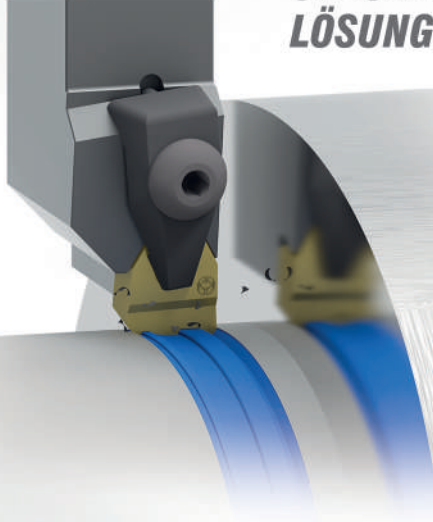
**ÖZEL DIŞ AÇMA**  
**SPECIAL THREADING**  
**SPEZIELLES GEWINDESCHNEIDEN**



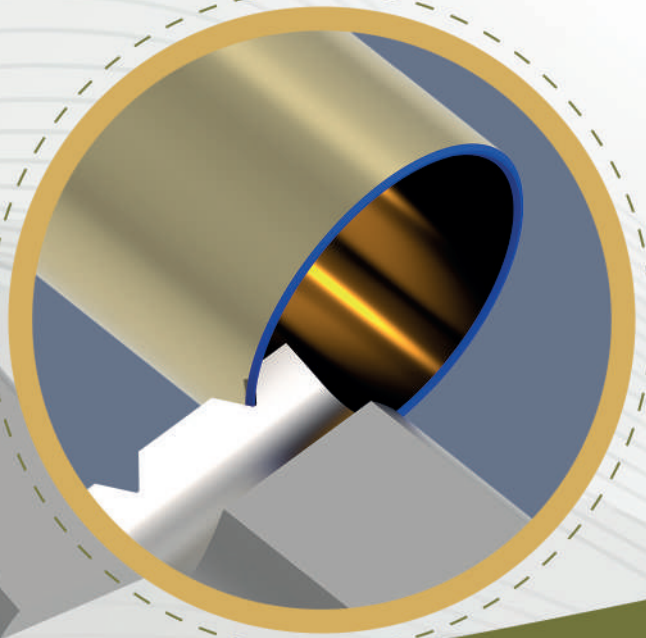
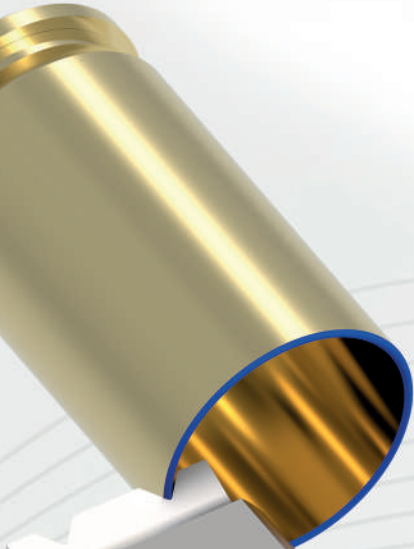
**AKKO**<sup>®</sup> SOLUTIONS  
Lösungen



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



**ÖZEL TALAŞLI İMALAT ÇÖZÜMLERİ**  
**SPECIAL MACHINING SOLUTIONS**  
**SONDERLÖSUNGEN FÜR MASCHINEN**

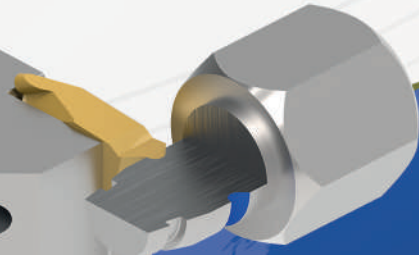
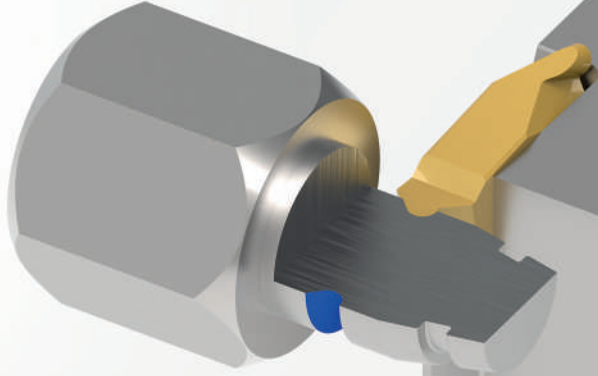
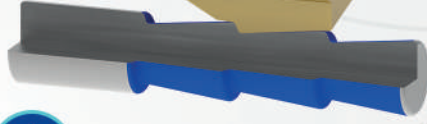




**ÖZEL FORM KANAL AÇMA ÇÖZÜMÜ**

**SPECIAL FORM GROOVING SOLUTIONS**

**LÖSUNGEN ZUM EINSTECHDREHEN IN SONDERFORMEN**



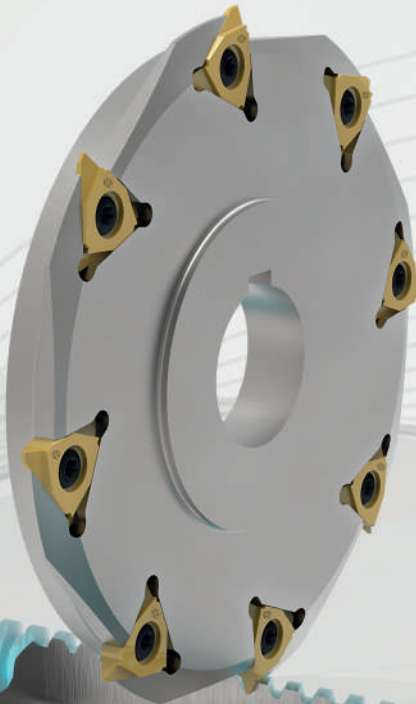
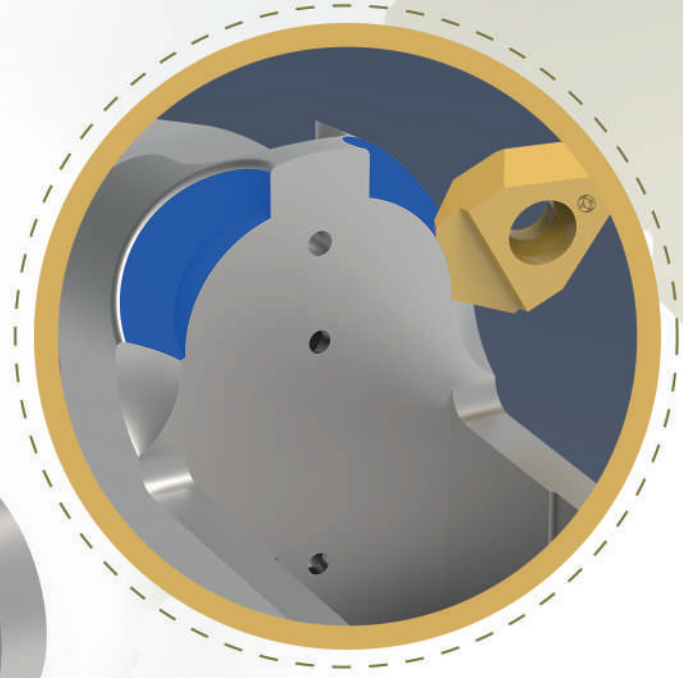
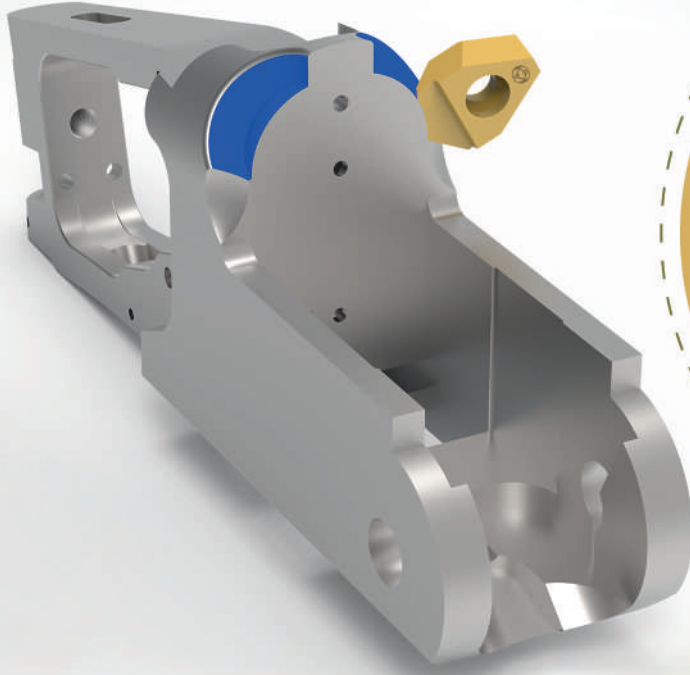


**AKKO**® SOLUTIONS  
Lösungen

*Cözümleri*



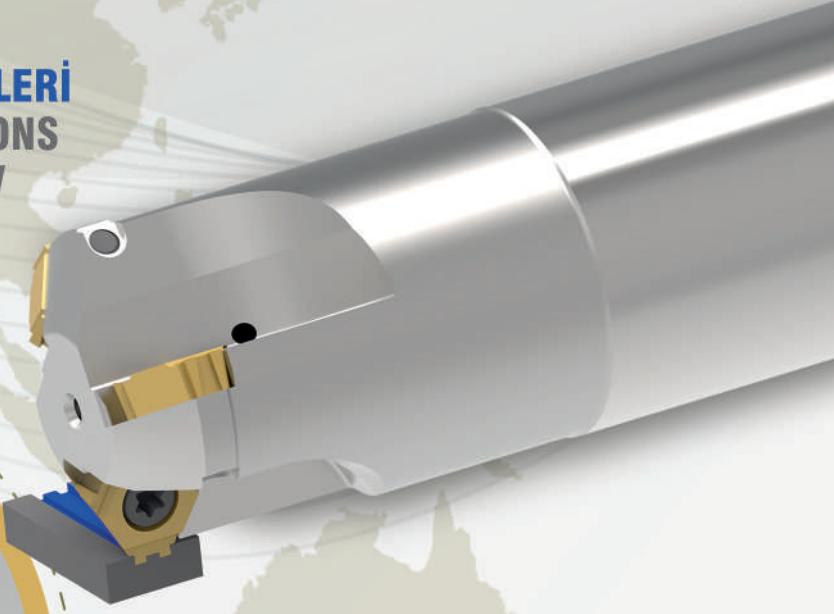
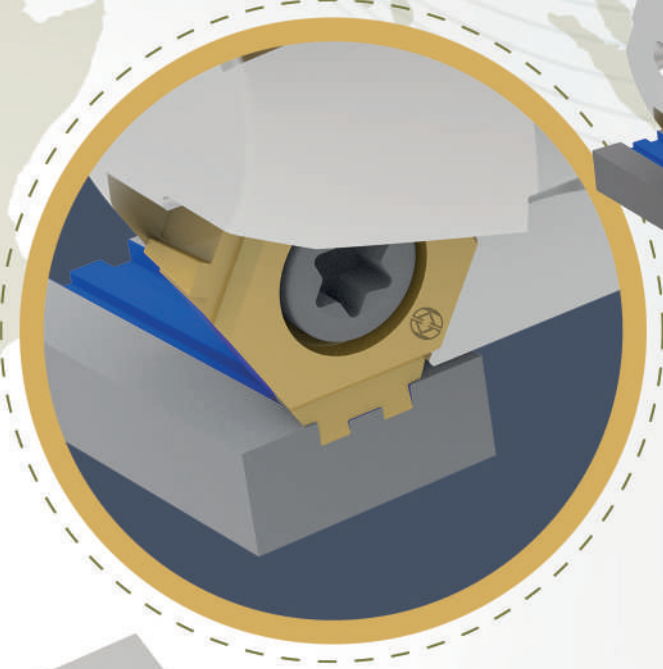
**ÖZEL FORM FREZELEME ÇÖZÜMLERİ**  
**SPECIAL FORM MILLING SOLUTIONS**  
**LÖSUNGEN FÜR SONDERFORMEN**  
**ZUM FRÄSEN**



**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**

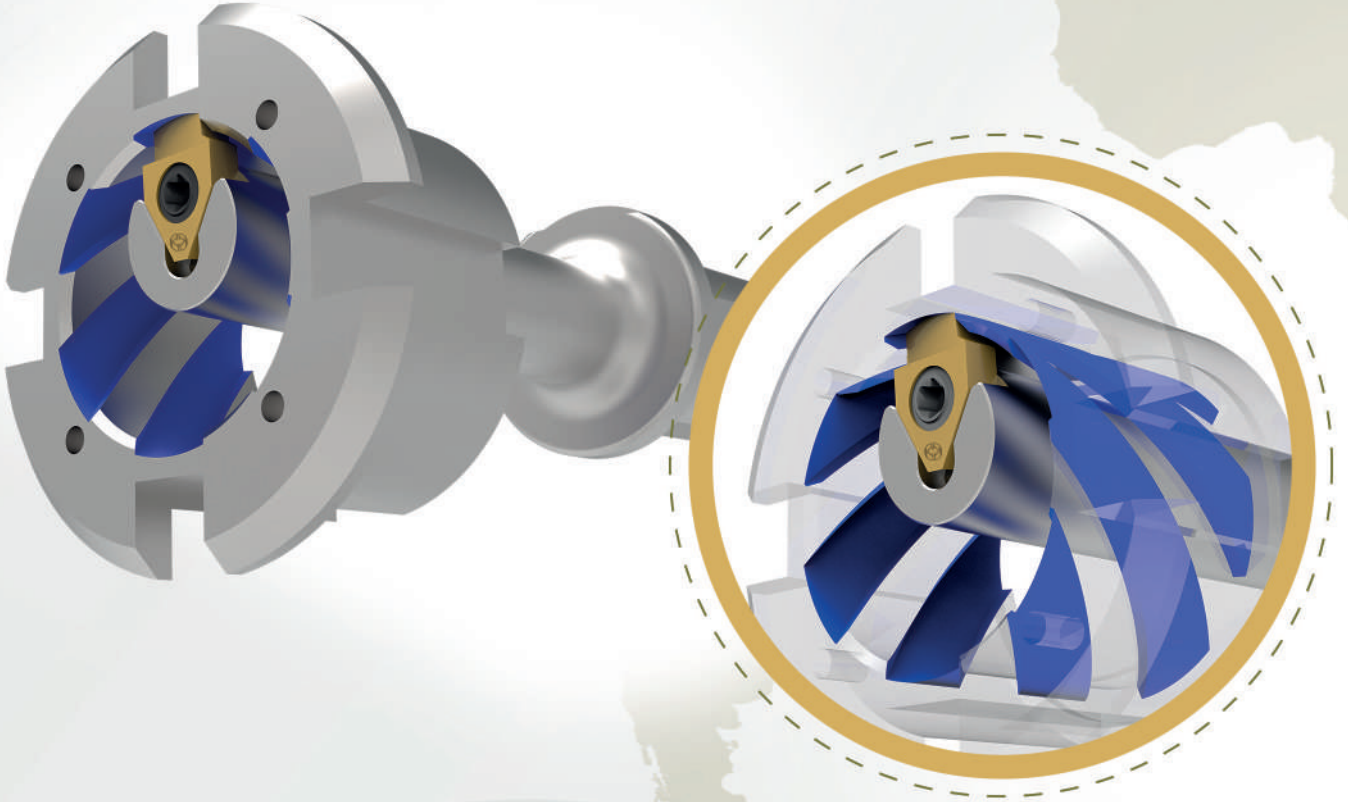


**ÖZEL SUPAP ÇÖZÜMLERİ**  
**SPECIAL VALVE SOLUTIONS**  
**SPEZIELLE VENTILLÖSUNGEN**





**HELİSEL ÖZEL FORM AÇMA ÇÖZÜMLERİ**  
**HELICAL SPECIAL FORMING SOLUTIONS**  
**HELIX SONDERFORMEBEARBEITUNGSLÖSUNGEN**

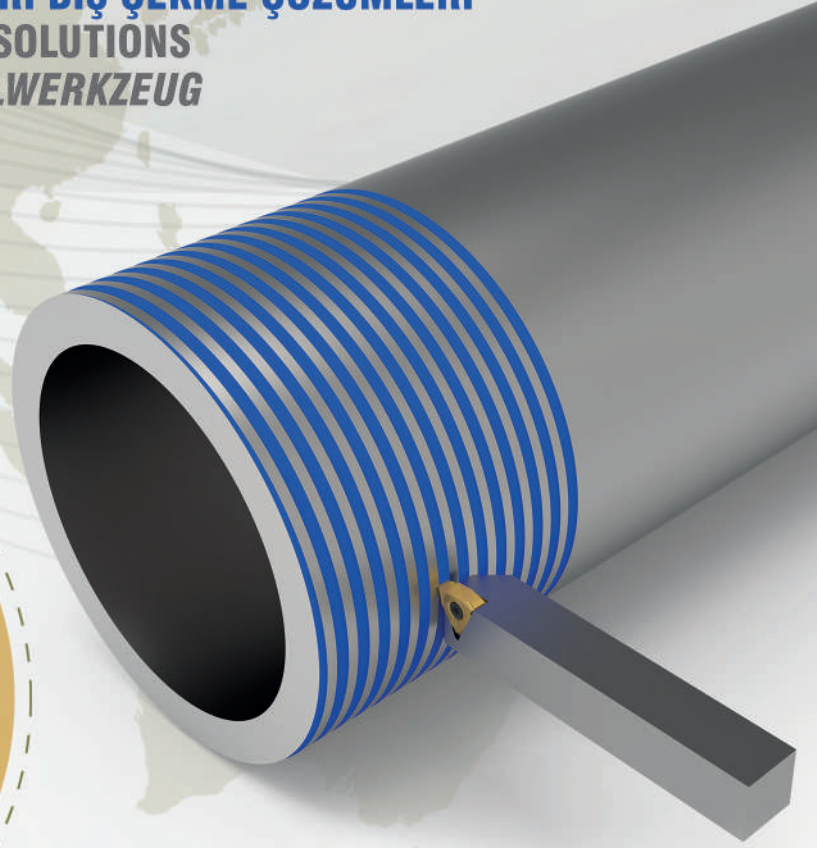


**ÖZEL TAKIMLANDIRMA ÇÖZÜMLERİ**  
**SPECIAL MACHINING SOLUTIONS**  
**SONDERLÖSUNGEN FÜR**  
**WERKZEUGHALTER**





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



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

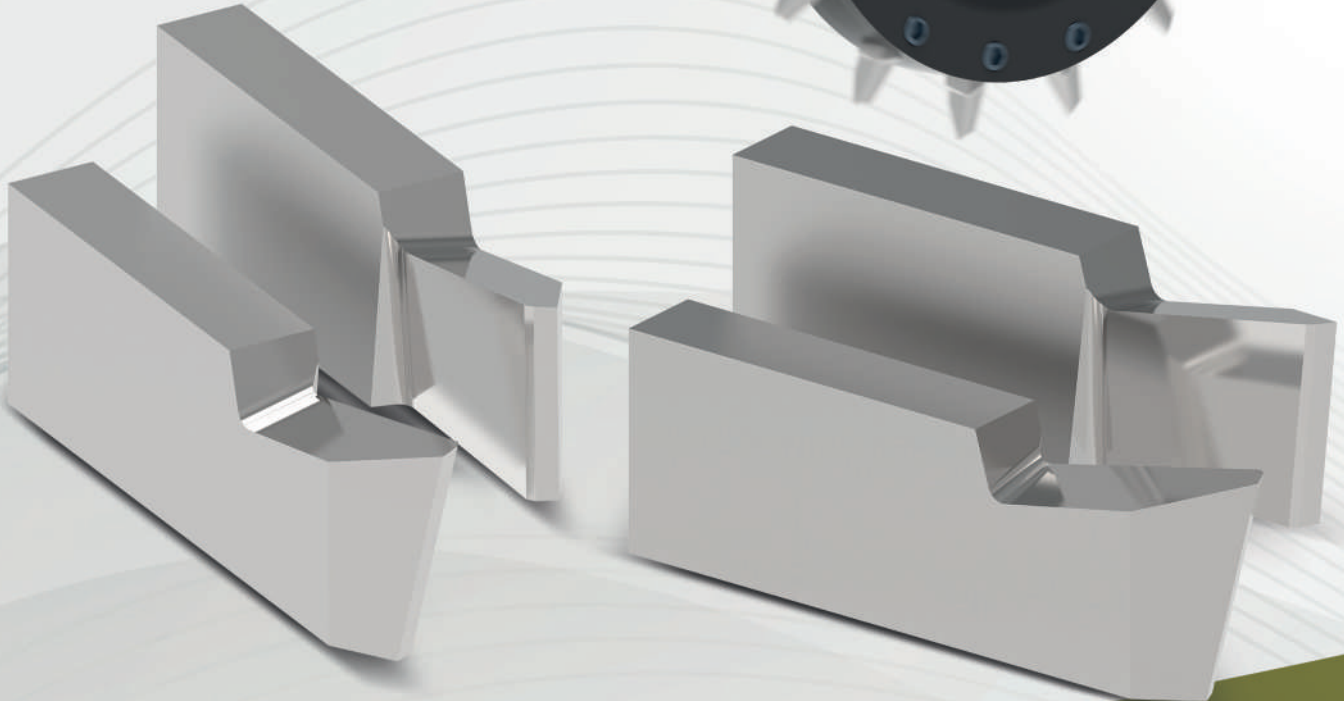
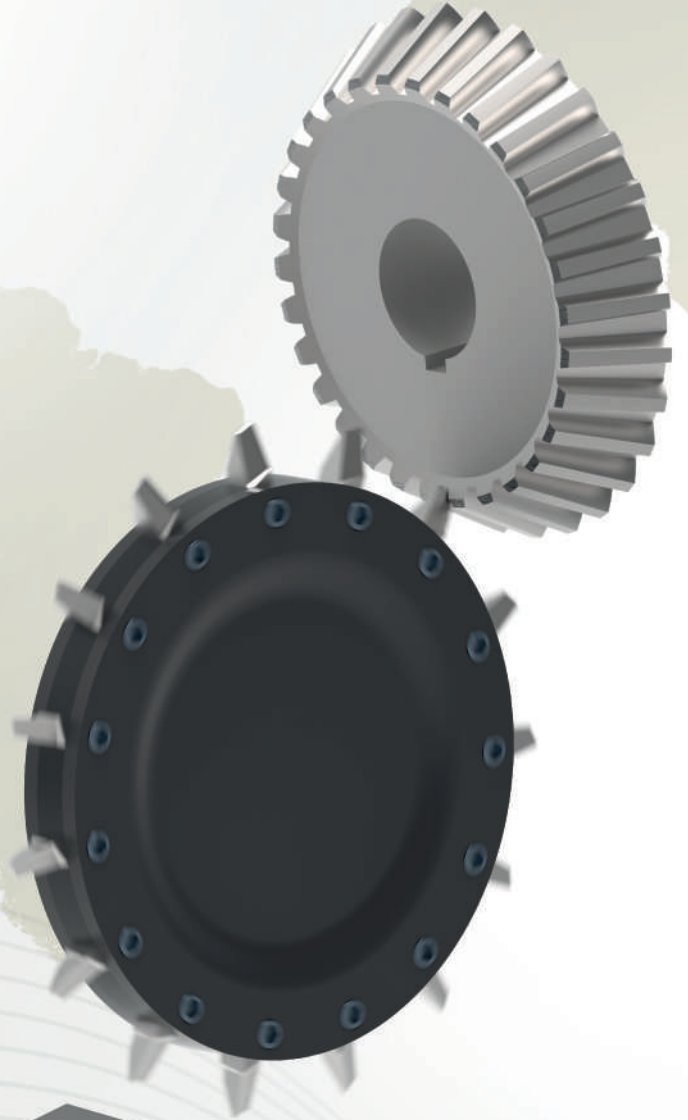
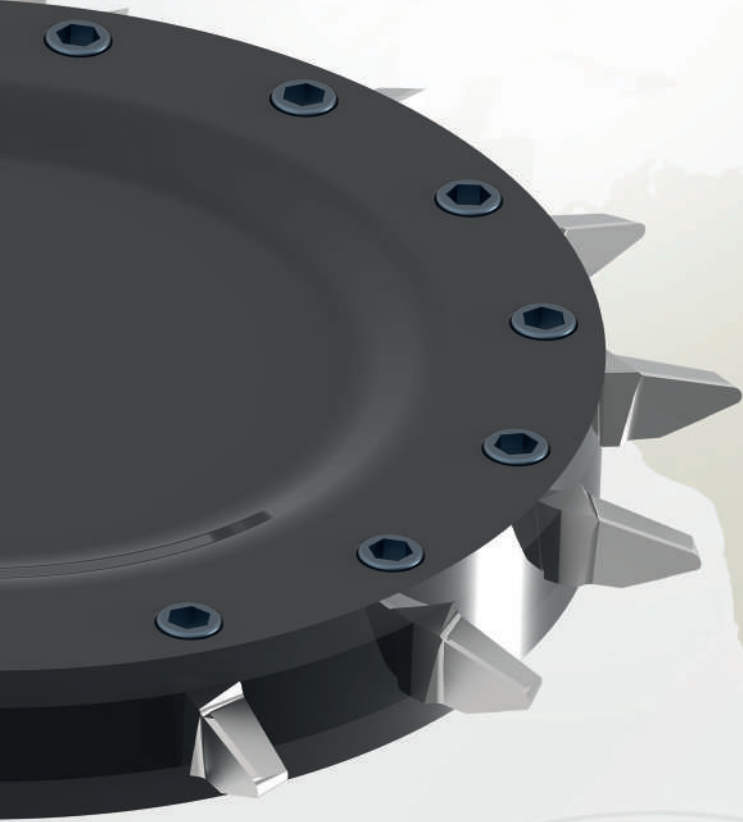


**AKKO**<sup>®</sup> SOLUTIONS  
Lösungen

*Cözümleri*



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

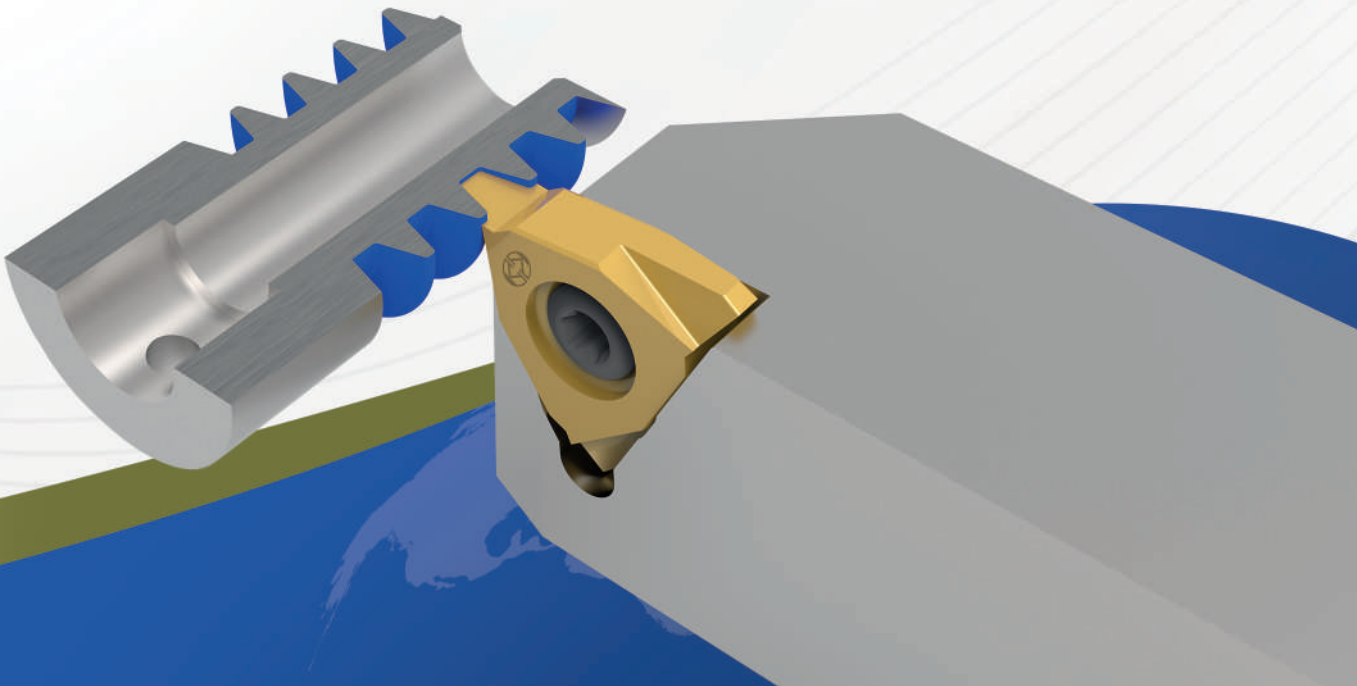




**ZİNCİR DİŞLİ BROŞ ÇÖZÜMLERİ**  
**CHAIN SPROCKETS BROACHING SOLUTIONS**  
**LÖSUNGEN MIT KETTENFORM**  
**ZUR NUTUNGSBEARBEITUNGEN**



**SONSUZ DİŞLİ TORNALAMA ÇÖZÜMLERİ**  
**WORM GEAR TURNING SOLUTIONS**  
**DREHLÖSUNGEN MIT ZAHNSTANGENGETRIEBE**

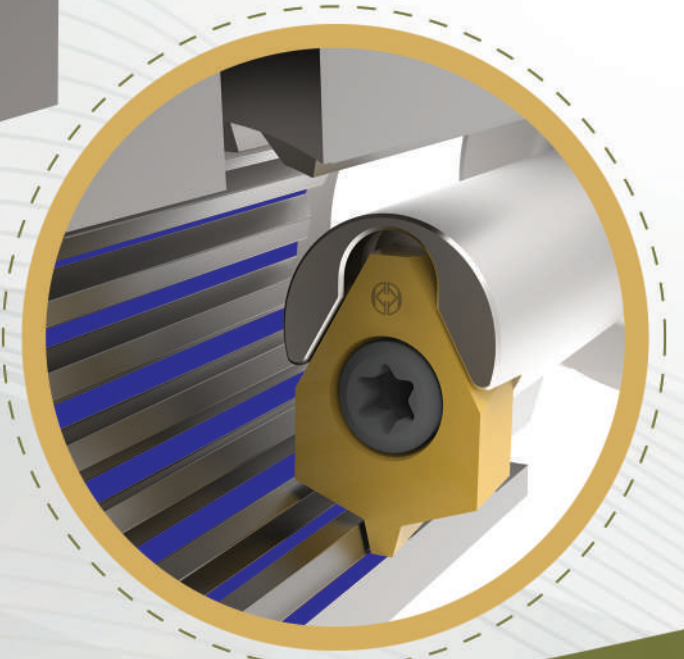
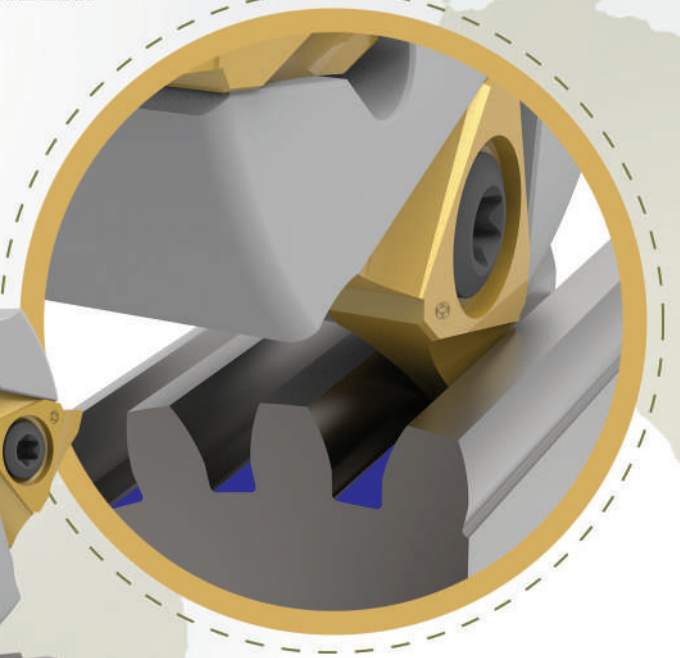
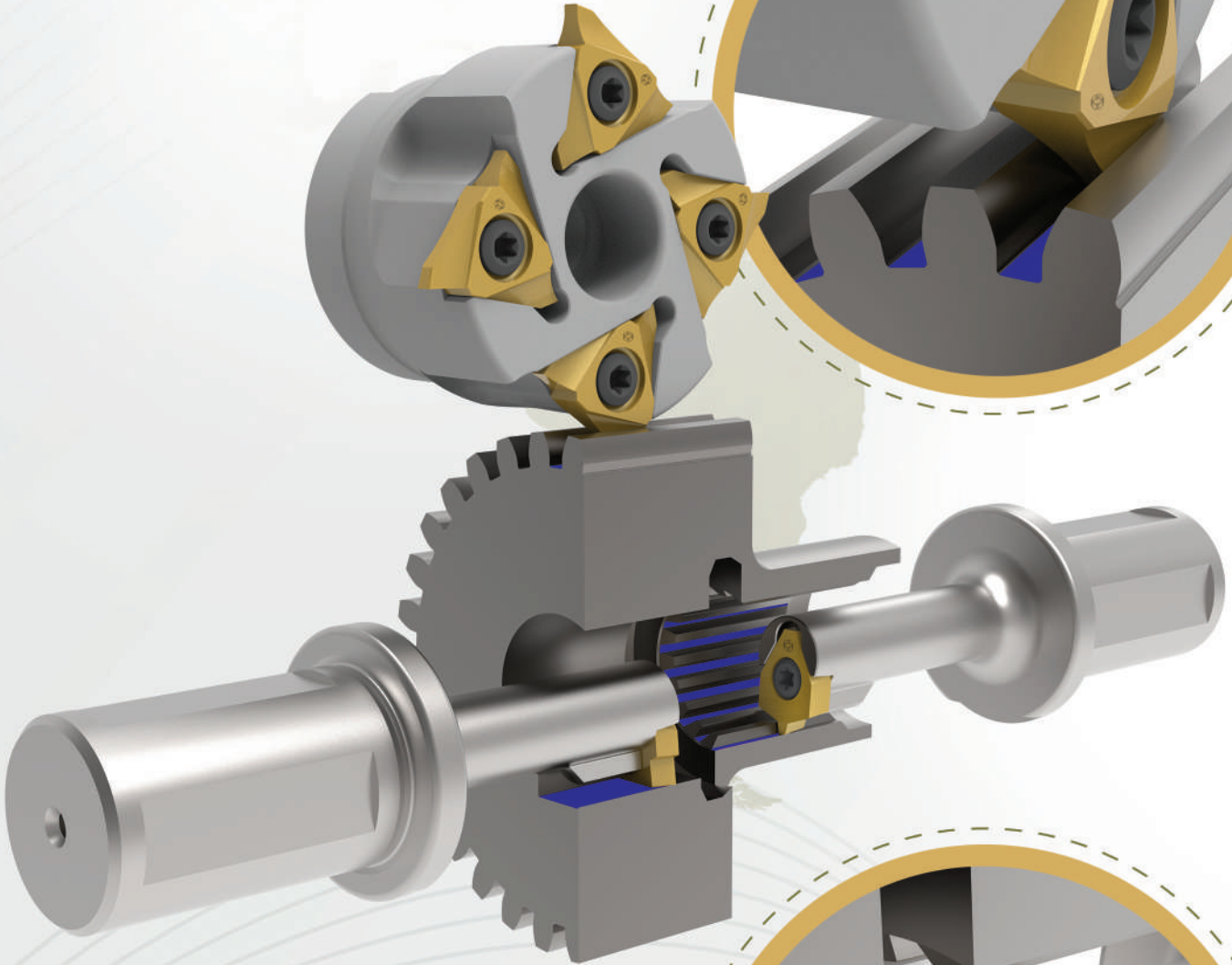




**AKKO**® *Cözümleri*  
**SOLUTIONS**  
**Lösungen**

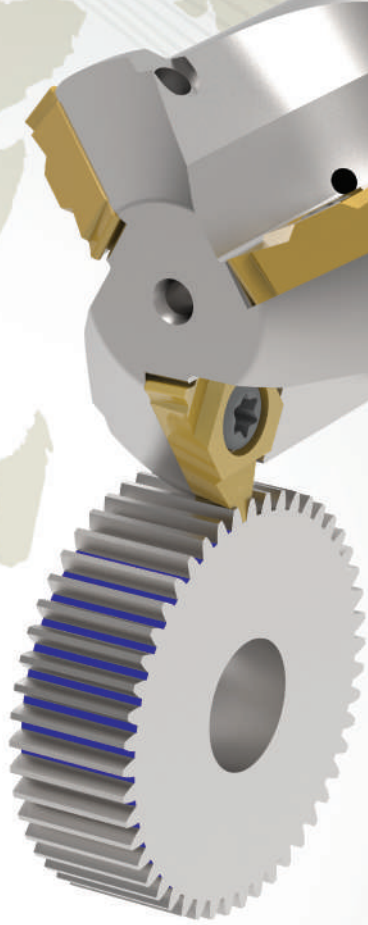


**ÖZEL DIŞLİ PROFİL BROŞ ÇÖZÜMLERİ**  
**SPECIAL GEAR PROFILE**  
**BROACHING SOLUTIONS**  
**LÖSUNGEN ZUM RÄUMEN VON**  
**ZAHNRADPROFILEN**



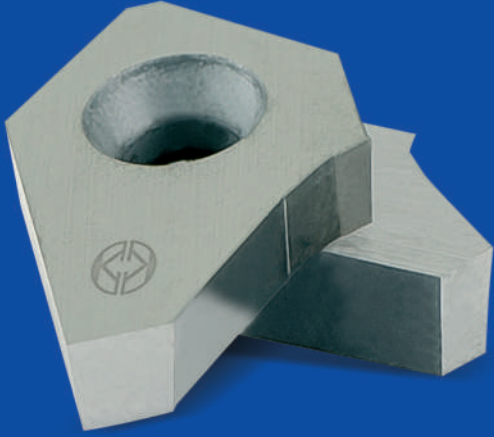


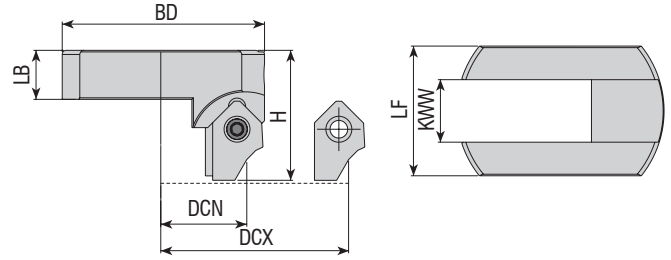
**ÖZEL DIŞLİ PROFİL BROŞ ÇÖZÜMLERİ**  
**SPECIAL GEAR PROFILE**  
**BROACHING SOLUTIONS**  
**LÖSUNGEN ZUM RÄUMEN VON**  
**ZAHNRADPROFILEN**



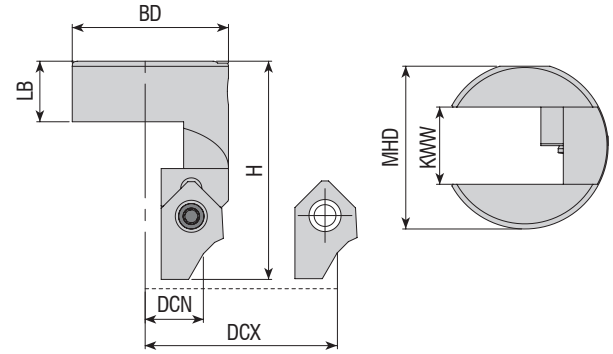
# SUPAP

**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)						Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile			
		DCN DCX	BD	LB	H	KWW	LF		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					
VST-B11-4058-A	●	40-58	39	9.5	25.0	12	25.0	<b>B11...</b>	3008-M3x8	80-T08	2725-M5x10	AAL-01-02



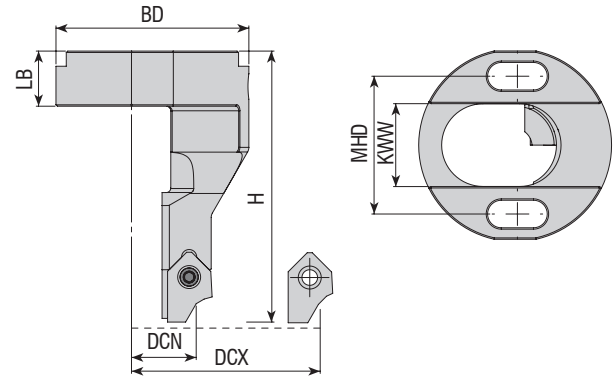
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile			
		DCN DCX	BD	LB	H	KWW	MHD		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel	Ayar Vidası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

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

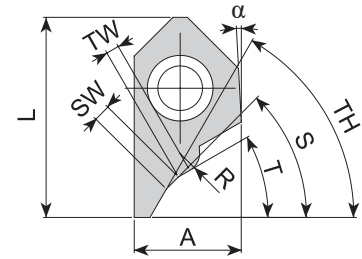
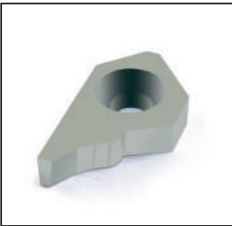
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

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)						Kesici Uç Insert Wendescheidplatte	Yedek Parçaları / Spare Parts / Ersatzteile							
		DCN DCX	BD	LB	H	KWW	MHD		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...								
VST-B11-2434-A	●	24-34	26	14	40	11	18.1						3008-M3x8	80-T08	2702-M4x10	AAL-01-02
VST-B11-2956-A	●	26-56	49	11.7	43.7	18	40									



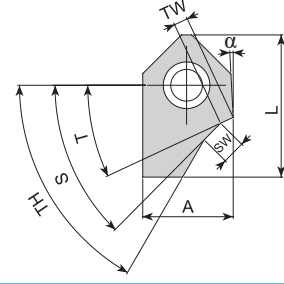
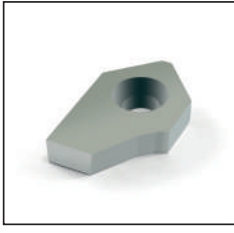
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)								
		S°	SW	T°	TW	TH°	A	L	α	R
B11013	●	45°	1.3	30°	1	60°	8.15	15.10	3°	1.50

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

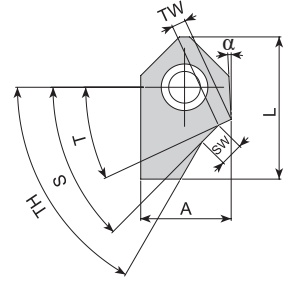
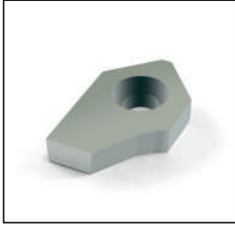


Uç Kodu  
Insert Code  
Wendepplatten-Bezeichnung

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°



Uç Kodu  
Insert Code  
Wendeplatten-Bezeichnung

Stok  
Stock  
Lager

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

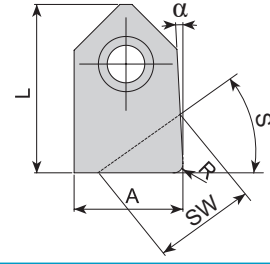
		S°	SW	T°	TW	TH°	A	L	α
B11051	●	45°	3	25°	1.4	60°	9.7	15.25	3°
B11052	●	30°	1.5	15°	1.4	60°	9.7	15.25	3°
B11053	●	30°	2.5	15°	1.8	60°	9.7	15.25	3°
B11054	●	45°	1	15°	1	60°	9.7	15.25	3°
B11055	●	45°	1.5	30°	1.8	60°	9.7	15.25	3°
B11056	●	45°	2	30°	1.2	60°	9.7	15.25	3°
B11058	●	35°	2	15°	1.6	60°	9.7	15.25	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°
<b>new</b> B11096	●	45°	1.0	25°	1.8	60°	9.7	15.25	3°
<b>new</b> 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°	-
<b>new</b> B11094	●	0°	9.6	9.6	12.0	4°	0.80

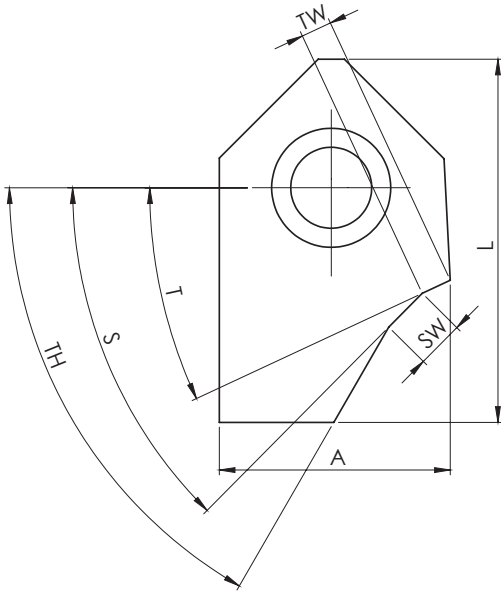
R: Sağ / Right / Rechts L: Sol / Left / Links

● 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  
INFORMATIONSFÖRMULAR FÜR VENTILSITZE



TW :

L :

SW :

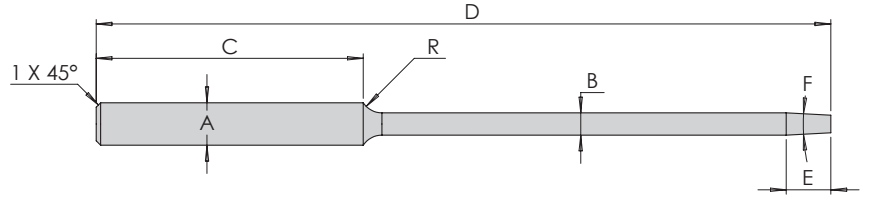
A :

T° :

S° :

TH° :

İLETİŞİM İÇİN:  
CONTACT:  
KONTAKT:



Uç Kodu  
Insert Code  
Wendepplatten-Bezeichnung

Stok  
Stock  
Lager

Uç Ölçüleri (mm)  
Insert Dimension (mm)  
Abmessung (mm)

Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	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°

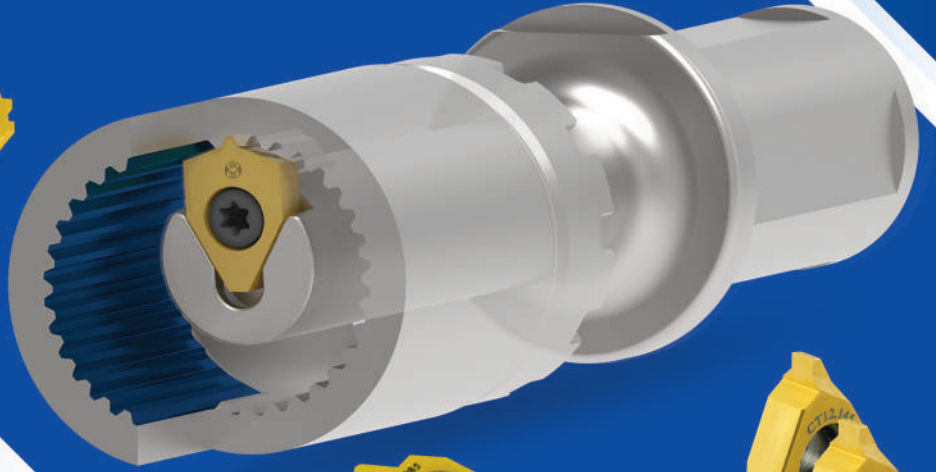
R: Sağ / Right / Rechts L: Sol / Left / Links

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

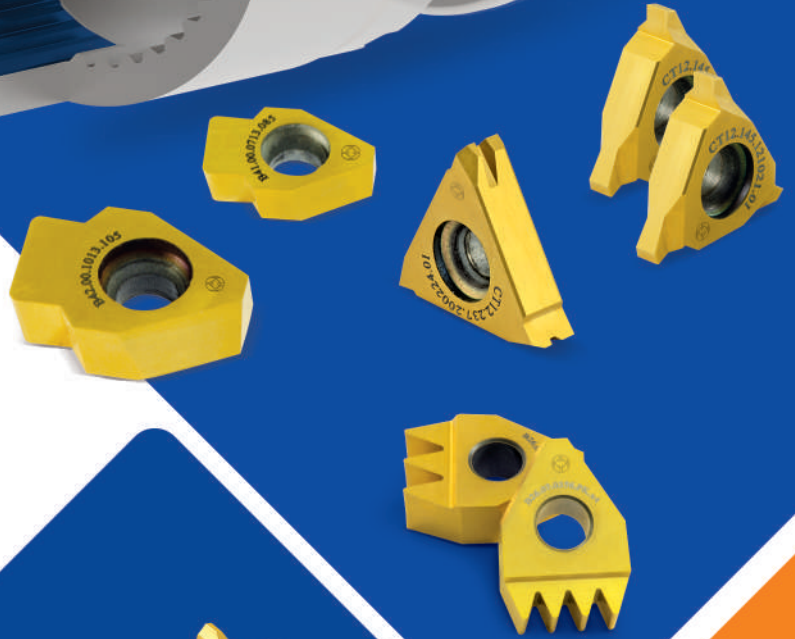
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück ACPM-0497-165

# ÖZEL PROFİL KESİCİ UÇLAR SPECIAL CUTTING INSERTS



**konusulan**  
**the spoken kalite...**  
**quality...**



# U-DRILL

TAKMA UÇLU MATKAPLAR  
U-DRILL SYSTEM  
VOLLBOHRER





**AKKO** **A** **TUM** **16** x **D3**

**S** **P** **G** **T** **06** **02** **04**

**2** Kesici Stili / Cutter Style  
Werkzeugtyp

TUM: Takma Uçlu Matkap  
U-Drill  
Volbohrer

**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

A J T   
 $\beta = 70-90^\circ$   $\beta = 70-90^\circ$   $\beta = 40-60^\circ$

B M U   
 $\beta = 70-90^\circ$   $\beta = 40-60^\circ$   $\beta = 40-60^\circ$

C N W   
 $\beta = 70-90^\circ$   $\beta = 40-60^\circ$   $\beta = 40-60^\circ$

F Q X   
 $\beta = 70-90^\circ$   $\beta = 40-60^\circ$

H

**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

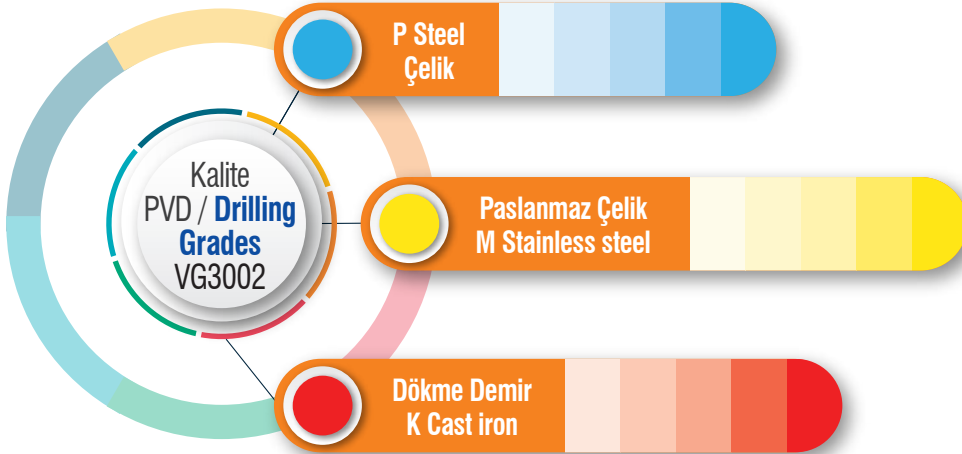
	A	± 0.025	± 0.005	± 0.025
	C	± 0.025	± 0.013	± 0.025
	E	± 0.025	± 0.025	± 0.025
	F	± 0.013	± 0.005	± 0.025
	G	± 0.025	± 0.025	± 0.130
	H	± 0.013	± 0.013	± 0.025
	J	± 0.05-0.15	± 0.005	± 0.025
	K	± 0.05-0.15	± 0.013	± 0.025
	L	± 0.05-0.15	± 0.025	± 0.025
	M	± 0.05-0.15	± 0.08-0.20	± 0.130
	N	± 0.05-0.15	± 0.08-0.20	± 0.025
	U	± 0.08-0.25	± 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

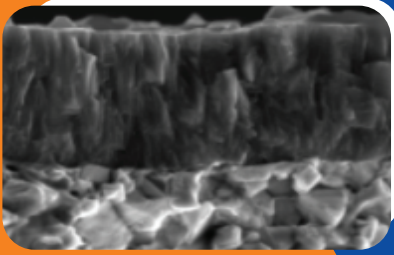


ISO 3 Köşeli / ISO 3 Corner

WCMX Serileri / Series  
00, 01, 02, 03, 04, 05

## Kalite Bilgileri / Grade Information

### PVD - TiAIN



#### 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	Alaşsız Çelik	180	280
	Düşük Alaşlı Çelik	150	250
	Yüksek Alaşlı Çelik	70	140
M	Ferritik Ve Martenzitik	120	200
	Östenitik Paslanmaz Çelik	130	250
K	Gri Dökme Demir	120	250
	Sferö Döküm Demir	130	220
N	Alüminyum	-	-
S	Titanyum Ve Süper Alaşım	25	45
H	Sertleştirilmiş Malzeme	-	-



P20 – P35

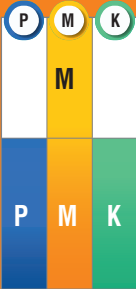
M20 – M40

K20 – K40

S15 – S25



## Talaş Kırıcı Formlar / Drilling Chipbreakers



-ST



- Keskin Geometri / Sharp Geometry
- Yapışkan Malzeme, Paslanmaz Çelik / Sticky Material, Stainless Steel

Genel Uçlar  
General Inserts



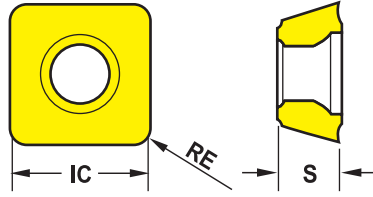
- Genel Uygulama İçin İlk Tercih  
First Choice for General Application

İNÇ / INCH

DELME / DRILLING

		Vc (m/min) VG3002	
ISO	ALT GRUP / SUB GROUP	MIN	MAX
P	Alaşımsız Çelik 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

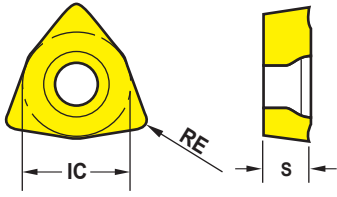


EDP	AÇIKLAMA / DESCRIPTION	İLERLEME / FEED RATE	
		mm/rev.	0.07~0.14
T.01.07.02.00	SPMX050204-VG3002	Inch/rev.	.003~.006
T.01.07.02.01	SPMX060204-VG3002	mm/rev.	0.08~0.14
T.01.07.02.02	SPMX07T308-VG3002	Inch/rev.	.003~.006
T.01.07.02.03	SPMX090408-VG3002	mm/rev.	0.08~0.16
T.01.07.02.04	SPMX110408-VG3002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



Delik Delme Ucu (WCMX) / Drilling Insert (WCMX)

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

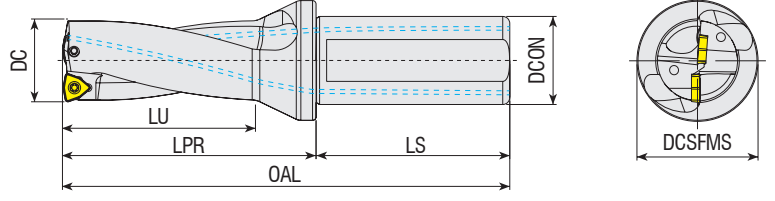


EDP	AÇIKLAMA / DESCRIPTION	İLERLEME / FEED RATE	
		mm/rev.	Inch/rev.
T.01.07.01.01	WCMX030208-VG3002	0.05~0.12	.002~.005
		mm/rev.	Inch/rev.
T.01.07.01.02	WCMX040208-VG3002	0.05~0.12	.002~.005
		mm/rev.	Inch/rev.
T.01.07.01.03	WCMX050308-VG3002	0.06~0.14	.002~.006
		mm/rev.	Inch/rev.
T.01.07.01.04	WCMX06T308-VG3002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

ISO	VDI	Kesme Hızı / Cutting Speed		Vc (ft/min)	
		Alt Grup / Sub Group		VG3002	
		Min	Max	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

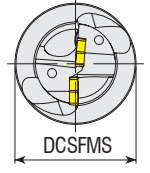
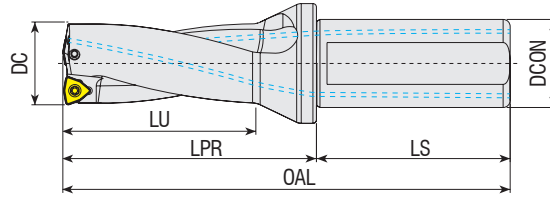


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)							Maks. Ofset (radyal) Max. Offset (radial) Max. Versatz (radial)		Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile				
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub> [mm]	DC <sub>max</sub> [mm]		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel			
ATUM 16XD2 WCM. 030208	●	16	25	34	110	32	54	56	1.5	19	WCM. 030208	3008-M2.5x6	82-T08			
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						
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						
ATUM 20XD2 WCM. 040208	●	20	25	34	118	40	62	56	1.5	23				WCM. 040208	3008-M2.5x6	82-T08
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						
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	WCM. 050308	3008-M3x8	82-T08			
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						
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 Uygun. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

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



Delme Derinliği  
Drilling Depth  
Bohrtiefe

= 2x Çap  
= 2x Diameter  
= 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	
	DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub>	DC <sub>max</sub>		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
●	30	32	44	147	60	87	60	2.4	34.8	WCM. 06T308	3010-M3.5x9	82-T10
●	31	32	44	149	62	89	60	2.3	35.6			
●	32	32	44	151	64	91	60	2.1	36.2			
●	33	32	44	153	66	93	60	1.9	36.8			
●	34	32	44	155	68	95	60	1.9	37.8			
●	35	32	44	157	70	97	60	1.9	38.8			
●	36	32	44	159	72	99	60	2	40			
●	37	32	44	161	74	101	60	1.8	40.6			
●	38	32	44	163	76	103	60	1.5	41			
●	39	32	44	165	78	105	60	1.3	41.6			
●	40	32	44	167	80	107	60	1	42			
●	41	32	44	169	82	109	60	0.8	42.6			
●	42	32	44	171	84	111	60	0.5	43			
●	43	32	44	173	86	113	60	0.3	43.6			
●	44	32	44	175	88	115	60	0	44			
●	45	40	54	192	90	122	70	3.3	51.6	WCM. 080412	4015-M4x11	80-T15
●	46	40	54	194	92	124	70	3	52			
●	47	40	54	196	94	126	70	2.8	52.6			
●	48	40	54	198	96	128	70	2.5	53			
●	49	40	54	200	98	130	70	2.2	53.4			
●	50	40	54	202	100	132	70	2	54			
●	51	40	54	204	102	134	70	1.8	54.6			
●	52	40	54	206	104	136	70	1.5	55			
●	53	40	54	208	106	138	70	1.3	55.6			
●	54	40	54	210	108	140	70	1	56			
●	55	40	54	212	110	142	70	0.8	56.6			
●	56	40	64	214	112	144	70	0.5	57			
●	57	40	64	216	114	146	70	0.3	57.6			
●	58	40	64	218	116	148	70	0	58			
●	59	40	64	220	118	150	70	0	59			
●	60	40	64	222	120	152	70	0	60			

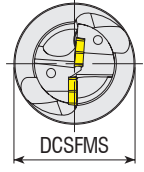
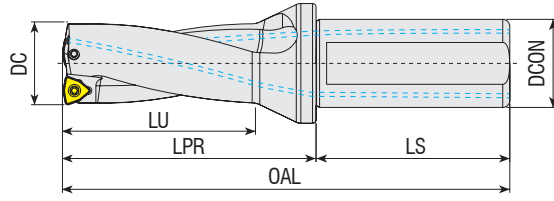
R: Sağ / Right / Rechts L: Sol / Left / Links

● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage  
ISO Ucuna Uygunudur. / 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  
Wendescheidplatte

Yedek Parçaları / Spare Parts / Ersatzteile

Sıkma Vidası  
Screw  
Schraube

Tork Anahtar  
Torx Key  
Torx-Schlüssel

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 Wendescheidplatte	Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub>	DC <sub>max</sub>			
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	3008-M2.5x6	82-T08
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	82-T08
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 Uçuna Uygunudur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

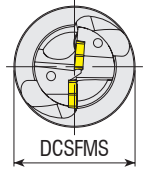
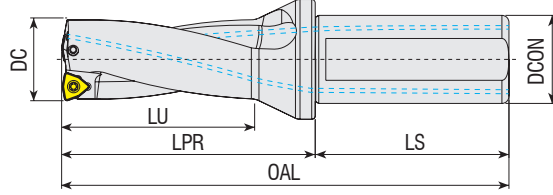
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück ATUM 16XD3 WCM. 030208



Delme Derinliği  
Drilling Depth  
Bohrtiefe

= 3x Çap  
= 3x Diameter  
= 3x Durchmesser



**Takım Kodu**  
**Ordering Code**  
**Bestell-Bezeichnung**

Stok  
Stock  
Lager

Takım Ölçüleri (mm)  
Dimension (mm)  
Abmessung (mm)

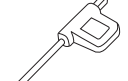
Maks. Ofset (radyal)  
Max. Offset (radial)  
Max. Versatz (radial)

Kesici Uç  
Insert  
Wendescheidplatte

Yedek Parçaları / Spare Parts / Ersatzteile

Sıkma Vidası  
Screw  
Schraube

Tork Anahtar  
Torx Key  
Torx-Schlüssel



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 Wendescheidplatte	Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub>	DC <sub>max</sub>			
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			

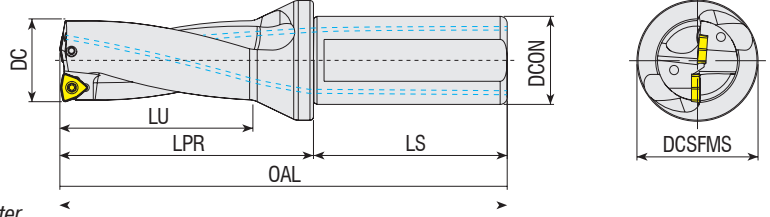
R: Sağ / Right / Rechts! L: Sol / Left / Links

● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage  
ISO Ucuna Uygunudur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

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



Delme Derinliği  
Drilling Depth  
Bohrtiefe  
= 4x Çap  
= 4x Diameter  
= 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 Wendeschnidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub>	DC <sub>max</sub> [mm]		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
ATUM 16XD4 WCM. 030208	●	16	25	34	142	64	86	56	1.5	19	WCM. 030208		
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	3008-M2.5x6	82-T08
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

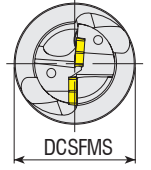
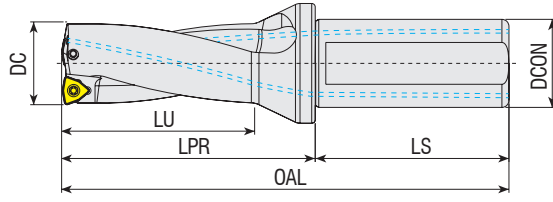
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage  
ISO Ucuna Uygun. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

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



Delme Derinliği  
Drilling Depth  
Bohrtiefe

= 4x Çap  
= 4x Diameter  
= 4x Durchmesser

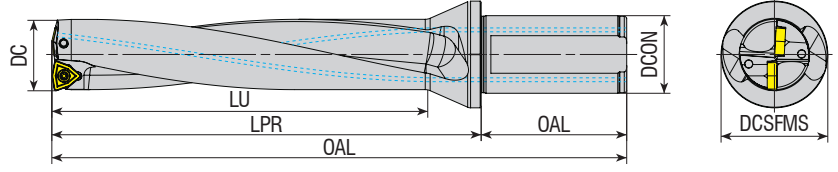


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)							Maks. Ofset (radyal) Max. Offset (radial) Max. Versatz (radial)		Kesici Uç Insert Wendescheidplatte	Yedek Parçaları / Spare Parts / Ersatzteile				
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub>	DC <sub>max</sub>		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel			
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						



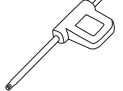
R: Sağ / Right / Rechts L: Sol / Left / Links  
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage  
ISO Ucuna Uygundur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

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 <sub>max</sub> [mm] DC <sub>max</sub> [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	82-T08
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

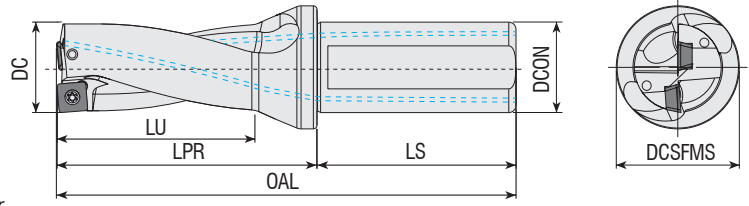
ISO Ucuna Uygundur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendeplatten.

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück ATUM 20XD5 WCM. 040208



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

Yedek Parçaları / Spare Parts / Ersatzteile

Sıkma Vidası  
Screw  
Schraube

Tork Anahtar  
Torx Key  
Torx-Schlüssel

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 Wendeschnidplatte	Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub>	DC <sub>max</sub>				
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.

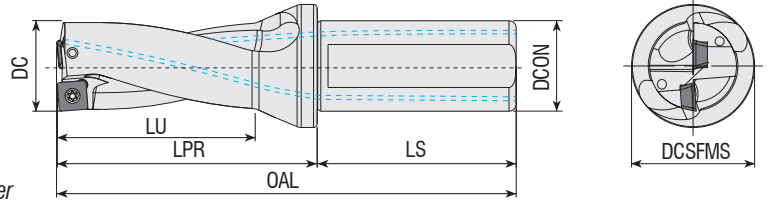
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück ATUM 12.5XD2 SP.. 050204



Delme Derinliği  
Drilling Depth  
Bohrtiefe

= 2x Çap  
= 2x Diameter  
= 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

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	
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub>	DC <sub>max</sub> [mm]		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
ATUM 28XD2 SP. 090408	●	28	25	34	134	56	78	56	1	30	SP. 090408	4015-M3.5x9	80-T15
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			
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	SP. 110408	4015-M4x11	80-T15
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			
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	SP. 140512	1020-M5x11	80-T20
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			
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 / Rechtsl L: Sol / Left / Links

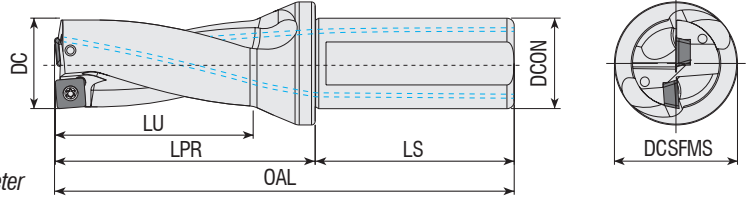
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage  
TGTC Ucuna Uygunudur. / Compatible with TGTC Insert. / Kompatibel mit TGTC Wendeplatten.

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



Delme Derinliği  
Drilling Depth  
Bohrtiefe

= 3x Çap  
= 3x Diameter  
= 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  
Wendescheidplatte

Yedek Parçaları / Spare Parts / Ersatzteile

Sıkma Vidası  
Screw  
Schraube

Tork Anahtar  
Torx Key  
Torx-Schlüssel

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 Wendescheidplatte	Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub> X <sub>max</sub> [mm]	DC <sub>max</sub> DC <sub>max</sub> [mm]			
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			
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			
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			
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

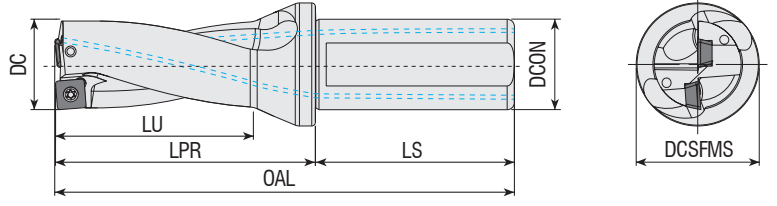
TGTC Ucuna Uygundur. / Compatible with TGTC Insert. / Kompatibel mit TGTC Wendeplatten.

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

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	Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub> [mm]	DC <sub>max</sub> [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 Uygunudur. / Compatible with TGTC Insert. / Kompatibel mit TGTC Wendeplatten.

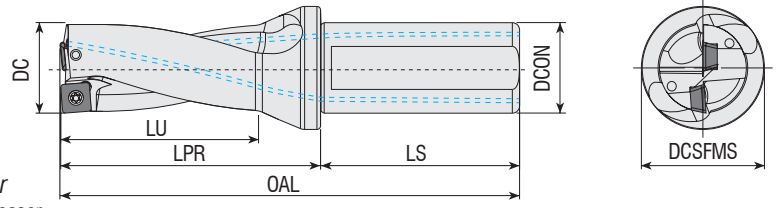
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück ATUM 34XD3 SP. 110408



Delme Derinliği  
Drilling Depth  
Bohrtiefe

= 4x Çap  
= 4x Diameter  
= 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  
Wendescheidplatte

Yedek Parçaları / Spare Parts / Ersatzteile

Sıkma Vidası  
Screw  
Schraube

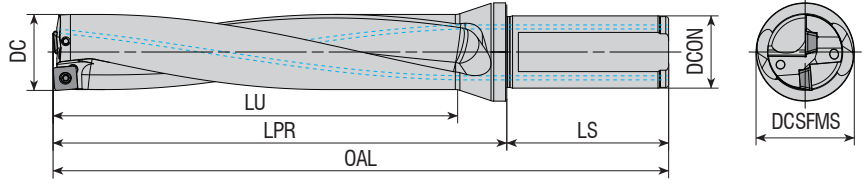
Tork Anahtar  
Torx Key  
Torx-Schlüssel

ATUM	Model	SP.	Part No.	Stok Durumu	DC	DCON	DCSFMS	OAL	LU	LPR	LS	Maks. Ofset (radyal)		Kesici Uç	Sıkma Vidası	Tork Anahtar
												$X_{max}$	$DC_{max}$			
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					
ATUM 15XD4	SP. 050204	●	15	20	25	132	60	82	50	0.5	16	SP. 060204	3006-M2.5x4	82-T07		
ATUM 16XD4	SP. 060204	●	16	25	34	142	64	86	56	0.8	17.6					
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	SP. 060204	3007-M2.2x4.6	82-T07		
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	SP. 07T308	3008-M2.5x6	82-T08		
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	SP. 090408	4015-M3.5x9	80-T15		
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	SP. 110408	4015-M4x11	80-T15		
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					
ATUM 29XD4	SP. 090408	●	29	25	34	194	116	138	56	0.75	30.5	SP. 110408	4015-M4x11	80-T15		
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	SP. 140512	1020-M5x11	80-T20		
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. 140512	1020-M5x11	80-T20		
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	SP. 140512	1020-M5x11	80-T20		
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	SP. 140512	1020-M5x11	80-T20		
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					
ATUM 43XD4	SP. 140512	●	43	32	44	259	172	199	60	1	45	SP. 140512	1020-M5x11	80-T20		
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  
Drilling Depth  
Bohrtiefe  
= 5x Çap  
= 5x Diameter  
= 5x 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		
		DC	DCON	DCSFMS	OAL	LU	LPR	LS	X <sub>max</sub>	DC <sub>max</sub>		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 3006-M2x4 3006-M2.5x4	82-T06	
ATUM 14XD5 SP. 050204	●	14	20	25	142	70	92	50	0.6	15.2				
ATUM 14.5XD5 SP. 050204	●	14.5	20	25	142	70	92	50	0.60	15.7				
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 3007-M2.2x5	82-T07	
ATUM 17XD5 SP. 060204	●	17	25	34	163	85	107	56	0.75	18.5				
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	SP. 07T308	3008-M2.5x6	82-T08	
ATUM 22XD5 SP. 07T308	●	22	25	34	188	110	132	56	1	24				
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	SP. 090408	4015-M3.5x9	80-T15	
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				
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 Ucuına Uygundur. / Compatible with TGTC Insert. / Kompatibel mit TGTC Wendepalten.

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

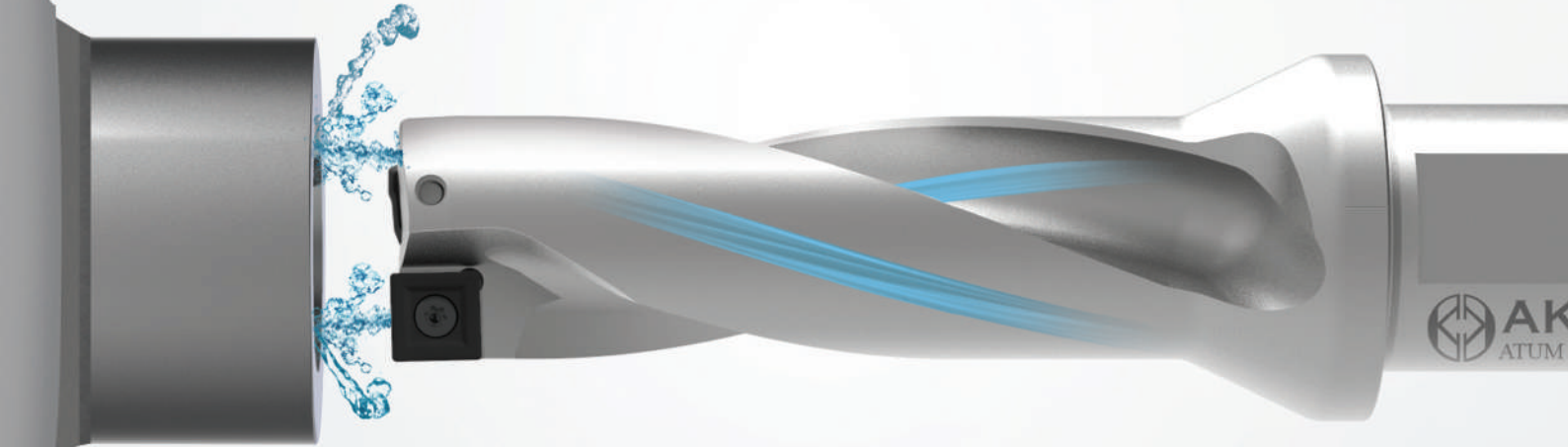
### INDIZIERBARE VOLLBOHRER MIT HELIX KÜHLUNGSHÖHLEN

Farklı çaplarda ve ALFA KAPLAMA teknolojisini ile siparişe hazır.

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

*Die Vollbohrer sind in unterschiedlichen Dimensionen und mit ALFABESCHICHTUNGSTECHNOLOGIE 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



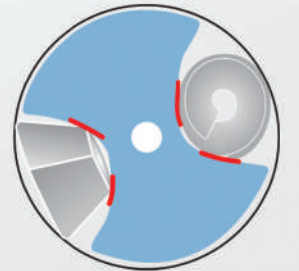
AKKO HELİSEL KANAL TEKNOLOJİSİ  
**AKKO HELICAL CHANNEL TECHNOLOGY**  
AKKO HELIX KANAL TECHNOLOGIE

RAKİPLER  
**COMPETITORS**  
KONKURRENZ

\* STOK DURUMU / STOCK STATUS / STOCK STATUS

**D2 / D3 / D4 / D5**

\* Helisel İçten Su Verme Kanallı  
**Twisted Coolant Hole**  
Spiralförmige Kühlungshöhlen



# KESME & KANAL AÇMA UÇ ve TAKIMLARI

GROOVING & PARTING INSERT and TOOLS  
EINSTECH- und ABSTECHWENDESCHLEIPLATTEN  
UND WERKZEUGE


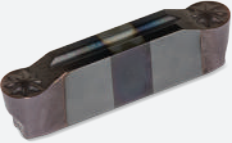
AGD-MT / AGD-MR Uç Serisi / Insert Series / Insert Serie



## Kesme ve Kanal Açma Uçlarına Genel Bakış

### Overview of Parting and Grooving Inserts

Überblick über Wendeschneidplatten zum Abstechen und Einstechen

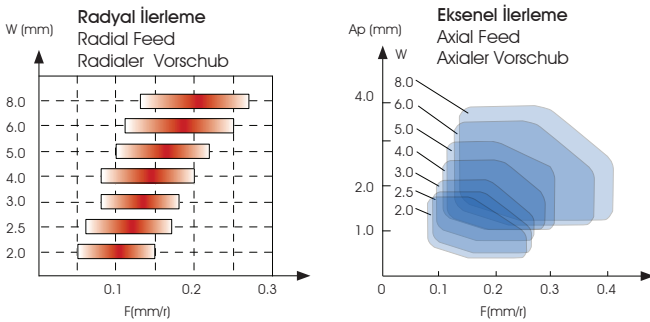
Form Shape	Geometri Geometry	Ugulama Application	Genişlik Width
	AGD-MT	Medium Turning	2.0-8.0 (mm)
	AGD-MR	Medium Profiling	2.0-8.0 (mm)

## Önerilen Kesme Değerleri

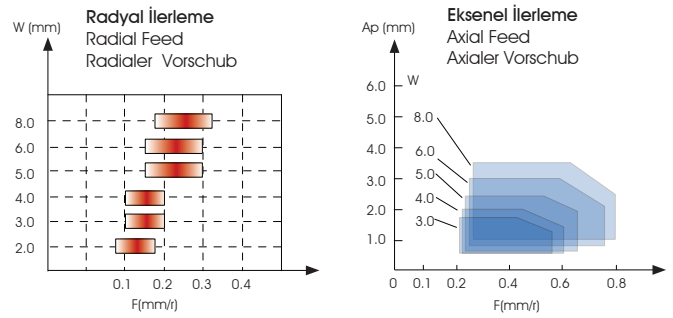
### Recommended Cutting Datas

Empfohlene Schnittdaten

#### AGD-MT

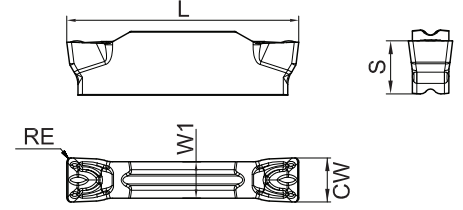


#### AGD-MR



ISO	İs Parçası Malzemesi Workpiece Material	Sertlik Hardness (HB)	Kesme Hızı / Cutting Speed Vc m/min / Schneidgeschwindigkeit						
			AP1105	AP1225	AK1115	AS3115	AS3125	AA4230	AS9125
P	Düşük Karbonlu 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 Alaşımli Çelik Low-alloy Steel	140– 260	110 (60-180)	110 (60-180)		70 (50-100)	70 (50-100)	(40-150)	
	Yüksek Alaşımli 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	Feritik / 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 Dayanımlı 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
AKKO	GROOVING KANAL AÇMA	D DOUBLE SIDE ÇİFT TARAFLI S SINGLE SIDE TEK TARAFLI	WIDTH GENİŞLİK CORNER RADIUS KÖŞE YARIÇAPI	CHIP BREAKER TALAŞ KIRICI FORM MT: MEDIUM TURNING MT: ORTA TORNALAMA MR: MEDIUM PROFILING MR: ORTA PROFİLLEME	AKKO	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 METATERIALS DEMİR OLMAYAN METALLER H: HARDENED STEEL / SERT METAL	GRADE / SERTLİK



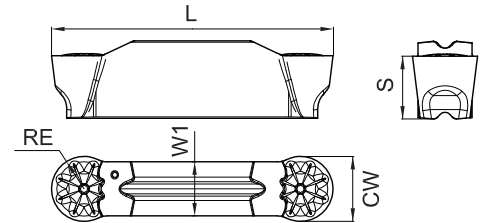
## AGD-MT

AKKO Çift Taraflı 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



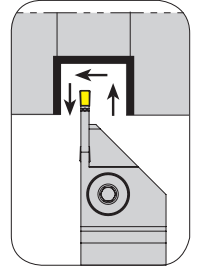
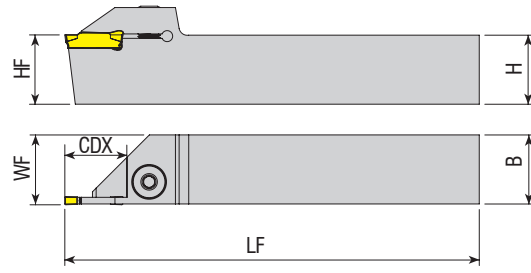
## AGD-MR

AKKO Çift Taraflı 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	●	●	●	●

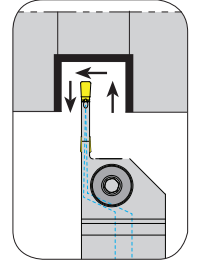
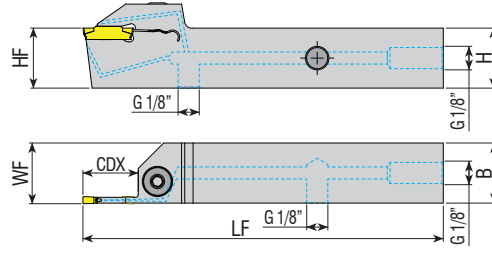
● Stok Stock ○ Talep Edilmesi Halinde Üretilecek Available upon order



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock		Takım Ölçüleri (mm) Dimension (mm)				Kesici Uç Insert	Yedek Parçaları / Spare Parts			
	R	L	HF=H	B	LF	WF		CDX	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				
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				
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				
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				
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				
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	2004-M8x1x20	-	AAL-05-4

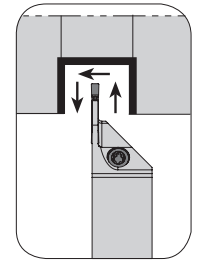
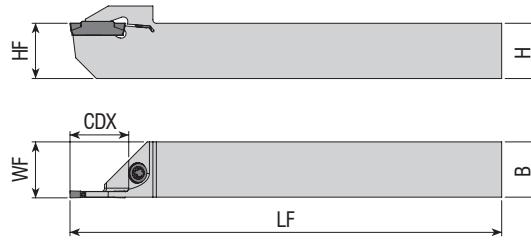
R: Sağ / Right L: Sol / Left  
● Stokta / In Stock ○ Stokta Yok / Non Stock Item

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



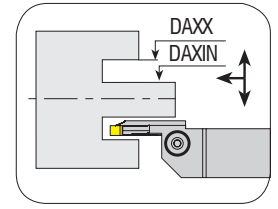
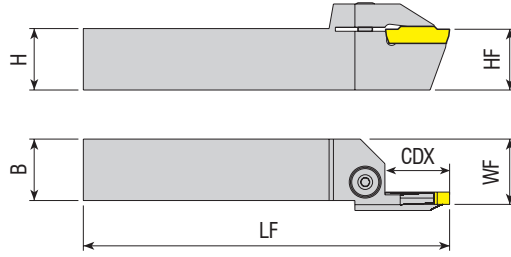
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock		Takım Ölçüleri (mm) Dimension (mm)				Kesici Uç Insert	Yedek Parçaları / Spare Parts			
	R	L	HF=H	B	LF	WF		CDX	Sıkma Vidası Screw	Pul Stamp	Anahtar Allen Key
ADKT-K-R/L-2020-3-T20-H	●	●	20	20	125	20.4	20	AGD. - 3 MGM. - 3	2004-M8x1x20	-	AAL-05-4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

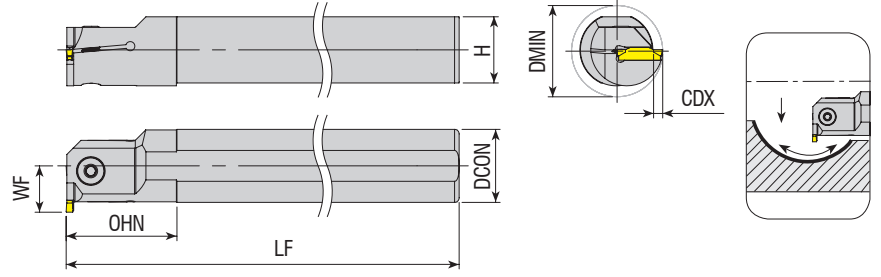
Sipariş Örneği/Ordering Example/Bestellbeispiel  
1 ad./pcs./stück ADKT-K-R/L-2020-3-T20-H



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock		Takım Ölçüleri (mm) Dimension (mm)							Kesici Uç Insert	Yedek Parçaları / Spare Parts		
	R	L	HF=H	B	LF	WF	CDX	DAXIN	DAXX		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	2004-M8x1x20	-	AAL-05-4
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	2004-M8x1x20	-	AAL-05-4
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	AGD. - 6 MGM. - 6	2004-M8x1x20	-	AAL-05-4
AAKT-K-R/L-2525-60-100-6-T25	●	●	25	25	150	26.5	25	60	100				
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	AGD. - 8 MGM. - 8	2004-M8x1x20	-	AAL-05-4
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	2004-M8x1x20	-	AAL-05-4
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

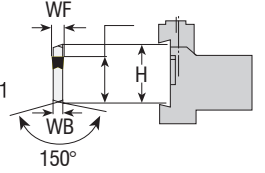
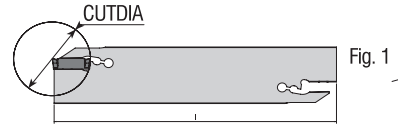
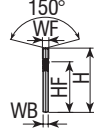
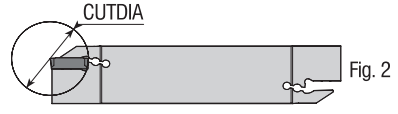
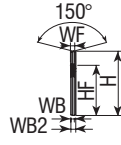
Sipariş Örneği/Ordering Example/Bestellbeispiel  
1 ad./pcs./stück AAKT-K-R-2525-34-45-3-T17



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

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

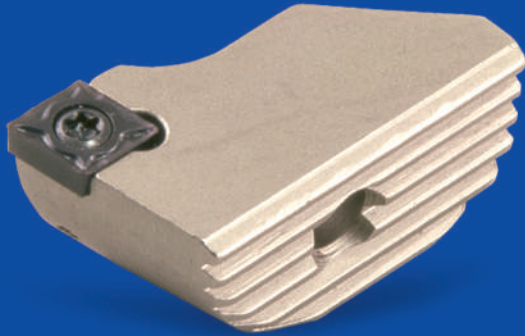


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock	Takım Ölçüleri (mm) Dimension (mm)							Kesici Uç Insert	Yedek Parçaları / Spare Parts	
		H	WF	WB2	WB	I	HF	CUTDIA		Anahtar Allen Key	
AKL-K-32-2	●	32	2	2.4	1.6	150	25	32	AGD. - 2 / MGM. - 2	ALA-02	
AKL-K-32-3	●	32	3	2.4	-	150	25	42	AGD. - 3 / MGM.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

**W16** - **L90** - **CC06**

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

BH : Delik İşleme / Boring Head  
Spindelkopf

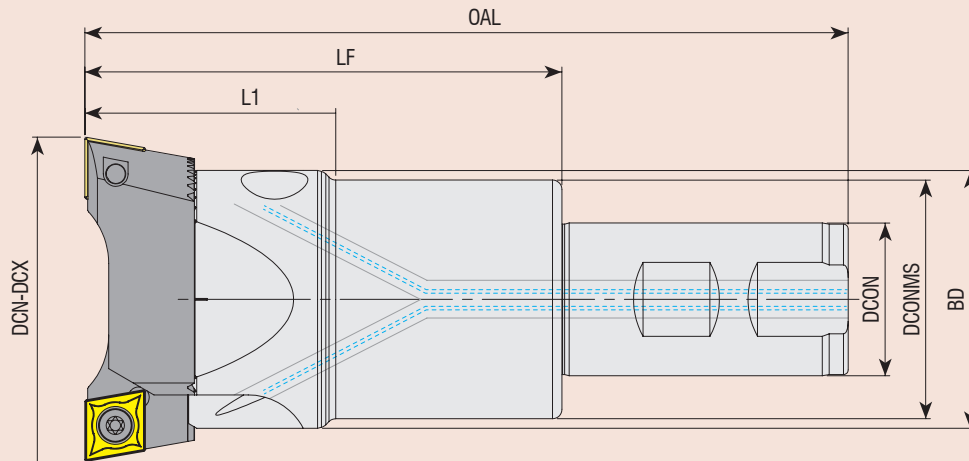
**3** İşlem Tipi / Cutter Type / Einsatzgebiet

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

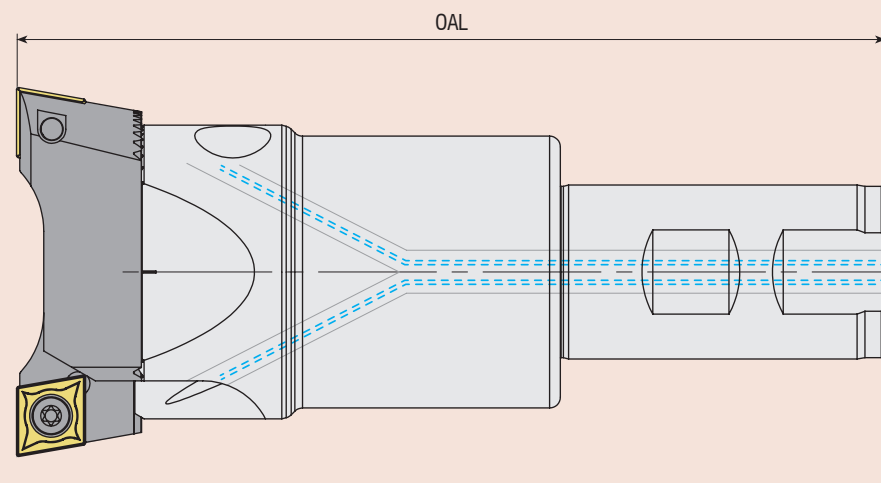
**5** Montaj Formu / Assembly Form / Schafform

W : Weldon

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

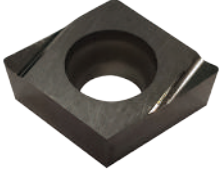


**6** Takım Boyu / Tool Length / Werkzeuglänge



**7** Kesici Uç / Insert / Wendschneidplatte

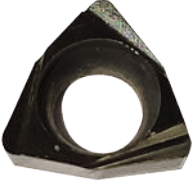
CC06 : CC.. 0602..  
CC09 : CC.. 09T3..  
CC12 : CC.. 1204..



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	TPGX 09T0202L-AC1020	100-200	0.15~0.3
T.01.08.03.02	TPGX 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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