



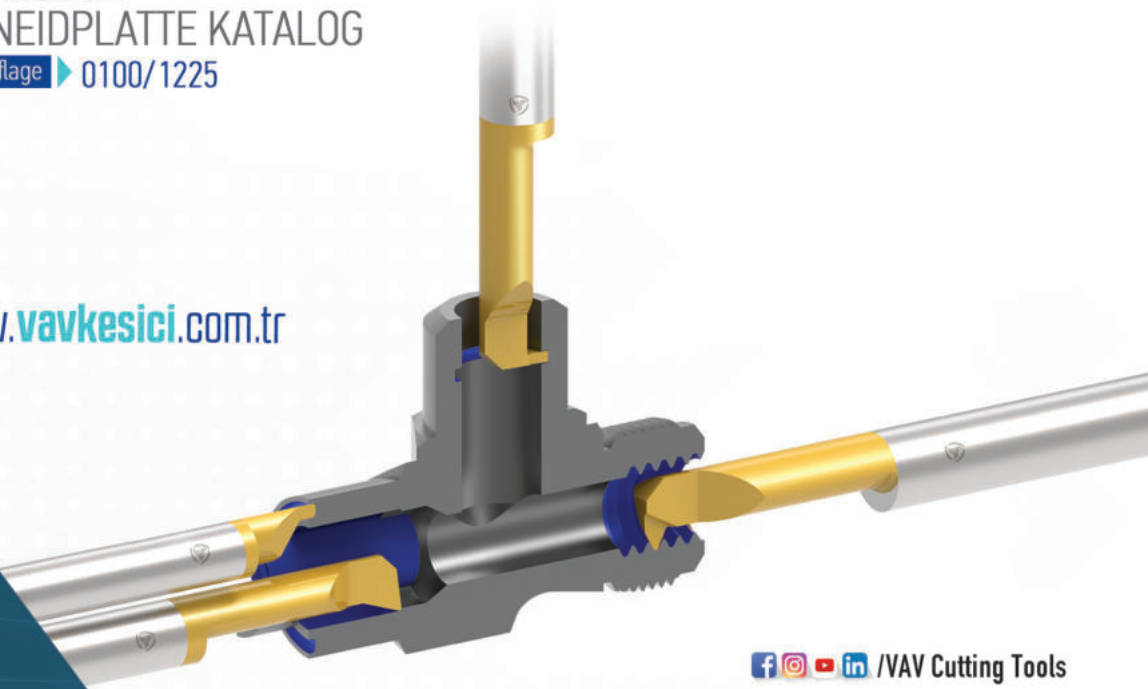
Kesici Uç ve Bağlama Sistemleri
Cutting Inserts and Connection Systems
Trägerwerkzeuge für Wendeschneidplatten

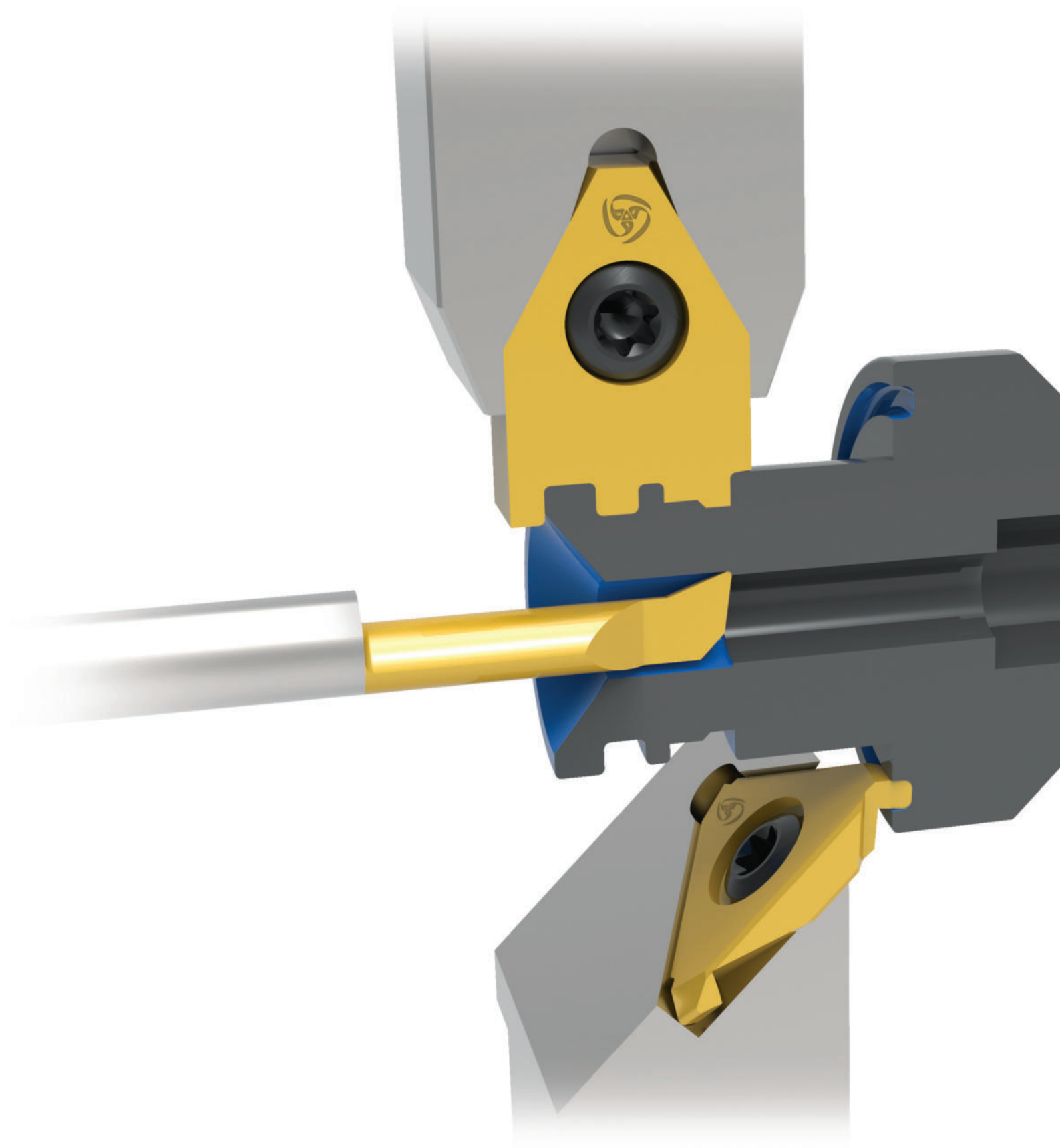


KESİCİ UÇ KATALOĞU
INSERT CATALOGUE
WENDESCHNEIDPLATTE KATALOG
versiyon • version • auflage ▶ 0100/1225



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Dünya her geçen gün değişiyor... Üretim biçimleri de değiştiğinden, sanayide yepyeni üretim ihtiyaçları doğuyor. Sanayi kuruluşları, rekabet gücünü artırmak için en kaliteli ürünü, en kısa sürede, kısacası "en ekonomik" şekilde üretmek zorunda! Ancak sanayi üretimi gibi ciddi bir işin içindeyseniz, yalnız değilsiniz...

VAV Kesici Takımlar, tasarım ve üretim kabiliyetini; metal işleme alanında stratejiniz olan özel profil kesici uçların üretiminde değerlendiren bir mühendislik firması... Bir AKKO kuruluşu olan VAV, kendi bünyesinde bulunan hassas taşlama tezgahları, son teknoloji kalite kontrol ekipmanları ve PVD kaplama tesisinin yanı sıra başarılı mühendis kadrosunun bilimsel yaklaşımıyla; "talaşlı imalat sanayisine katma değer odaklı dokunuş" şiarıyla 2017 yılında yola çıktı.

Kullanıcısına "kâr vadeden uygulamalar" ile yaklaşan VAV, uzman olduğu çözümler sayesinde; katma değer ve verimlilikle rekabet gücünü artırmak isteyen üreticilerin "Takım maliyetine ve üretim giderlerine pozitif katkı sağlama" misyonu, talaşlı imalat mühendislik hizmetlerini altın tepside sunmaya hazır...

The world is changing day by day... As production styles change, new production needs arise in the industry. In order to increase their competitiveness, industrial organizations have to produce the highest quality product in the shortest time, in short, "value-added"! But if you are in a serious business like industrial production, you are not alone...

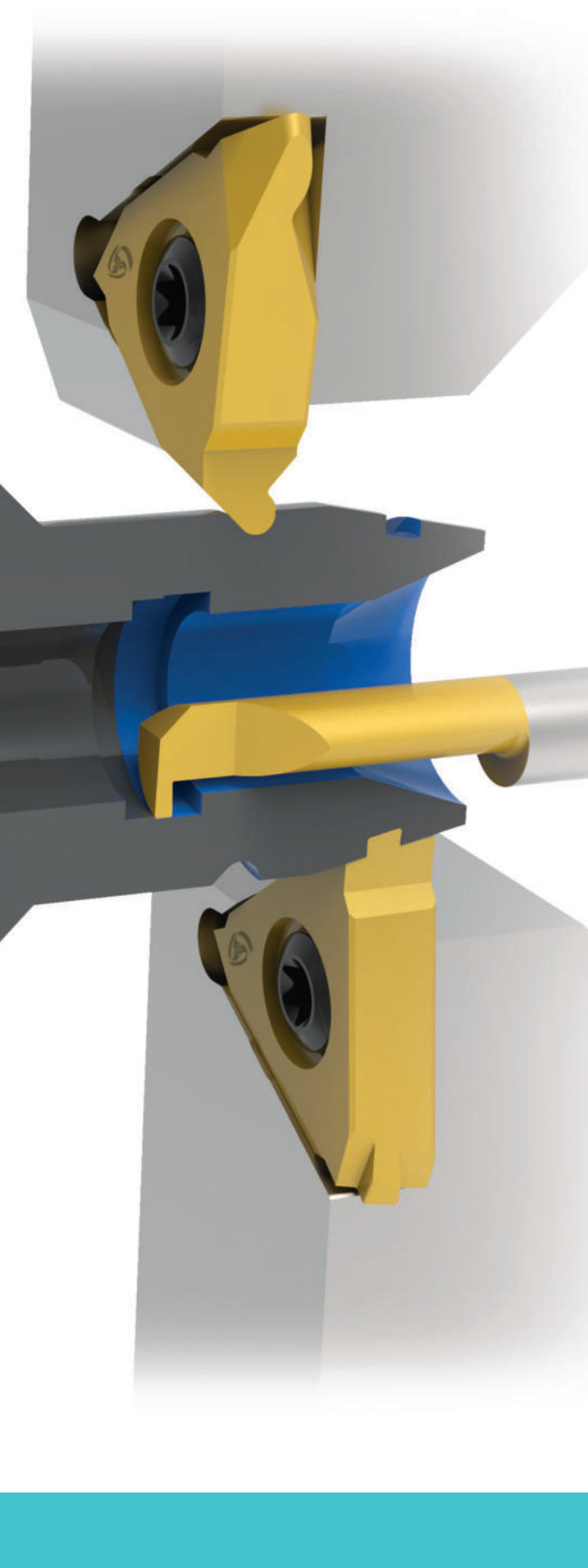
VAV Cutting Tools, design and production capability; An engineering company that evaluates your strategy in the field of metalworking in the production of special profile cutting inserts... As an AKKO enterprise, VAV, with its precision grinding machines, state-of-the-art quality control equipment, and PVD coating facility, as well as the scientific approach of its successful engineer staff; set out in 2017 with the motto of "a value-added touch to the machining industry".

Approaching its users with "profitable applications", VAV offers solutions that it is an expert in; It is ready to offer machining engineering services on a gold platter, with the mission of "Making a positive contribution to tool costs and production costs" for manufacturers who want to increase their competitiveness with added value and efficiency.

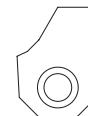
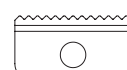
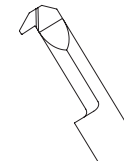
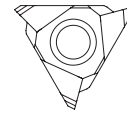
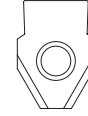
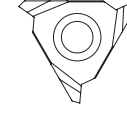
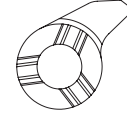
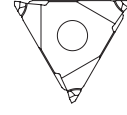
Die Welt verändert sich jeden Tag...Die Produktionsarten verändern sich, dadurch entsteht neuer Industriellerbedarf. Um ihre Wettbewerbsfähigkeit zu steigern, müssen Industrieunternehmen in kürzester Zeit das hochwertigste Produkt, kurz „ mit Wertschöpfung“ produzieren! Aber wenn Sie in einem ernsthaften Geschäft wie der industriellen Produktion tätig sind, sind Sie nicht allein ...

VAV Kesici Takımlar, ist eine Ingenieurfirma was Design und produktionsfähigkeit; für die Bearbeitung im Metalbereich erforderlichen Schneidewerkzeugen nach Ihrer Strategie herstellt... VAV, eine AKKO-Organisation, mit eigenen Präzisionsschleifmaschinen, modernster Qualitätskontrollausrüstung und PVD-Beschichtungsanlage sowie dem wissenschaftlichen Ansatz seiner erfolgreichen Ingenieure; Es startete 2017 unter dem Motto „bereit, seine Ingenieurleistungen für Metalbearbeitung auf einem goldenen Tablett zu präsentieren...“.

Dank seiner Expertenlösungen stellt VAV seinen Anwendern „gewinnbringende Anwenderanwendungen“ zur Verfügung; lieferbereit im Rahmen von Zerspanungstechnik-Dienstleistungen mit „Identitätsstiftung“, wo sie von Mehrwerten und Gewinnvorteilen profitieren können...

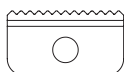
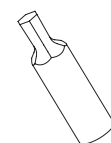
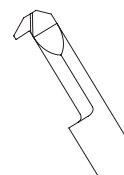
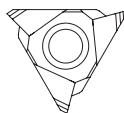
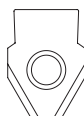
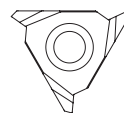
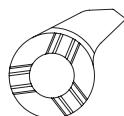
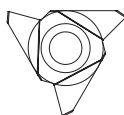
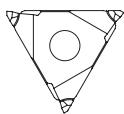
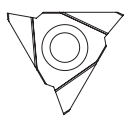


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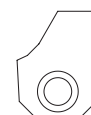
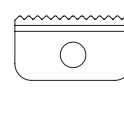
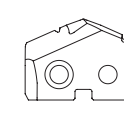
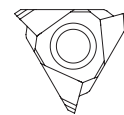
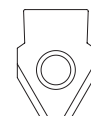
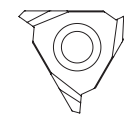
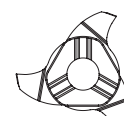
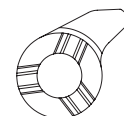
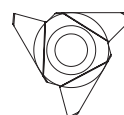
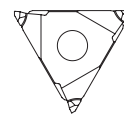
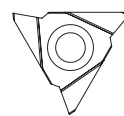
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yeni bir şeyler
 need to say söylemek lazım...
 something new...
 muss was neues
 gesagt werden

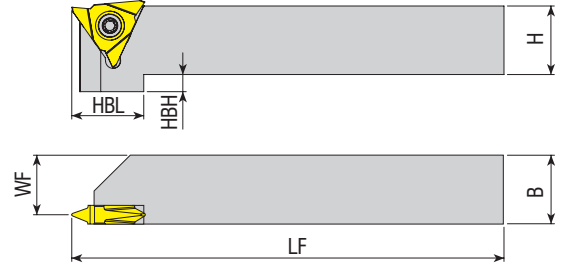
POLY-V

KAYIŞ KASNAK KANAL AÇMA UÇLARI VE TAKIMLARI

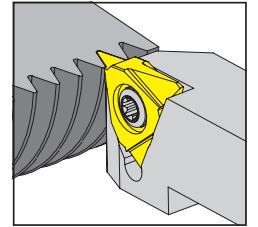
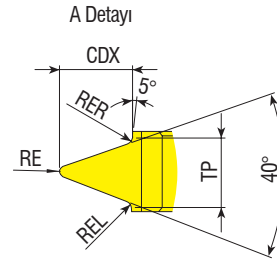
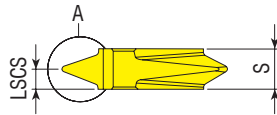
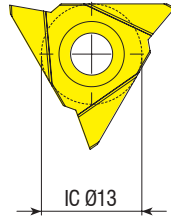
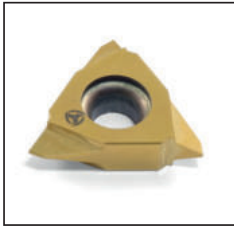
POLY-V BELT PULLEY GROOVING INSERTS AND TOOLHOLDERS

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			
new VDKT-T09P-R/L-1212-T3	●	○	12	12	9.5	100	16	4	T09...	4015-M4X9	80-T15
new VDKT-T09P-R/L-1616-T3	●	○	16	16	13.5	125	-	-			
new VDKT-T09P-R/L-2020-T3	●	●	20	20	17.5	125	-	-			
new VDKT-T09P-R/L-2525-T3	○	●	25	25	22.5	150	-	-			
VDKT-T12P-R/L-1616-T5	●	●	16	16	13.50	125	21	5	T12...	1020-M5x14	80-T20
VDKT-T12P-R/L-2020-T5	●	●	20	20	17.50	125	21	5			
VDKT-T12P-R/L-2525-T5	●	●	25	25	22.50	150	-	-			
VDKT-T12P-R/L-3232-T5	●	●	32	32	29.50	170	-	-			
new VDKT-T20P-R/L-1212-T5	○	○	12	12	9.5	100	16	4	T20...		
new VDKT-T20P-R/L-1616-T5	○	○	16	16	13.5	125	-	-			
new VDKT-T20P-R/L-2020-T5	●	●	20	20	17.5	125	-	-			
new VDKT-T20P-R/L-2525-T5	○	○	25	25	22.5	150	-	-			



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

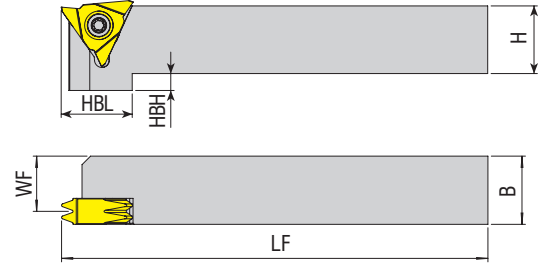
VDKT-T12P... Tipi katerler ile kullanınız. / Use with VDKT-T12P... Type toolholder. / Einsatz mit VDKT-T12P...-Werkzeughalter

İndekslediğinde boy $\pm 0,02\text{mm}$ / Indexability length $\pm 0,02\text{mm}$ / Wiederholgenauigkeit Länge $\pm 0,02\text{mm}$

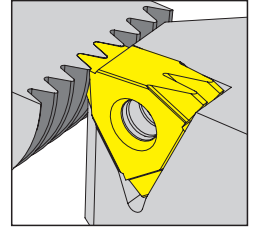
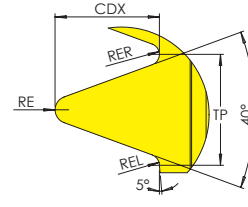
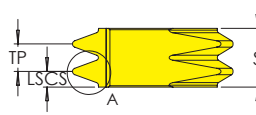
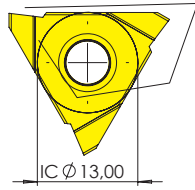
Diğer ölçü talepleriniz için müşteri temsilciniz ile irtibata geçiniz. / For other dimension request, contact with customer representative. / Für weitere Abmessungen kontaktieren Sie bitte den Vertrieb.

Sipariş Örneği/Ordering Example/ Bestellbeispiel

1 ad./pcs./stück VDKT-T12P-R-1616-T5



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		
													
VDKT-T12P-R-1616-2.34	●	●	16	16	12.2	125	20	5	T12...	1020x M5 X14	80-T20		
VDKT-T12P-R-2020-2.34	●	●	20	20	16.2	125	20	3					
VDKT-T12P-R-2525-2.34	●	●	25	25	21.2	150	-	-					
VDKT-T12P-R-3232-2.34	●	●	32	32	28.2	170	-	-					
VDKT-T30P-R-1616-3.56	●	●	16	16	12.2	125	20	5	T30...				
VDKT-T30P-R-2020-3.56	●	●	20	20	16.2	125	20	3					
VDKT-T30P-R-2525-3.56	●	●	25	25	21.2	150	-	-					
VDKT-T30P-R-3232-3.56	●	●	32	32	28.2	170	-	-					



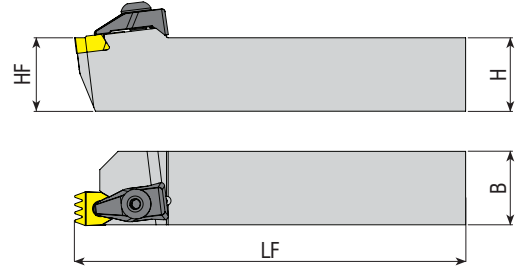
Uç Kodu Insert Code Wendeschneidplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							Kalite Grade Sorte
		DIN/ISO KODU	TP	S	RER/REL	RE	LSCS	CDX	
T12.07.0234.PJ.x2	●	PJ	2.34	5.20	0.24	0.36	1.48	2.08	VK20F01
T30.07.0356.PK.x2	●	PK	3.56	7.60	0.35	0.45	2.60	3.40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

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

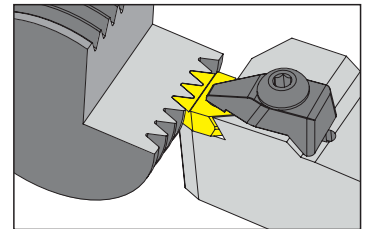
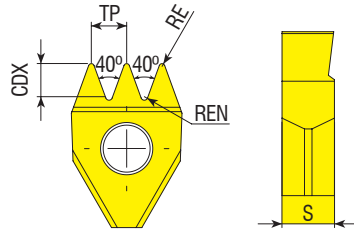
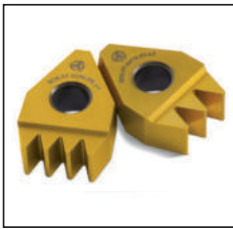
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VDKT-T30P-R-1616-3.56



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	
new	VTPVK 2020 K1.60X6	○	○	20	20	125	B26.07.0160.PH.x6	ATK-04	AKV-19-M7X25	AAL-05-4
new	VTPVK 2525 M1.60X6	○	○	25	25	150				
new	VTPVK 3232 P1.60X6	○	○	32	32	170				
	VTPVK 2020 K2.34X4	○	○	20	20	125	B26.07.0234.PJ.x4			
	VTPVK 2525 M2.34X4	○	○	25	25	150				
	VTPVK 3232 P2.34X4	●	○	32	32	170				
	VTPVK 2020 K3.56X4	○	○	20	20	125	B26.07.0356.PK.x4			
	VTPVK 2525 M3.56X4	○	○	25	25	150				
	VTPVK 3232 P3.56X4	●	○	32	32	170				
	VTPVK 2020 K3.56X3	○	○	20	20	125	B26.07.0356.PK.x3			
	VTPVK 2525 M3.56X3	○	○	25	25	150				
	VTPVK 3232 P3.56X3	○	○	32	32	170				
	VTPVK 2020 K4.7X3	○	○	20	20	125	B26.07.0470.PL.x3			
	VTPVK 2525 M4.7X3	○	○	25	25	150				
	VTPVK 3232 P4.7X3	●	○	32	32	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	RE	REN	CDX	
NEW B26.07.0160.PHx6	●	PH	1.60	7	0.15	0.30	1.53	VK10F01
B26.07.0234.PJx4	●	PJ	2.34	7	0.36	0.24	2.05	VK10F01
B26.07.0356.PKx3	●	PK	3.56	7	0.45	0.35	3.35	VK10F01
B26.07.0356.PKx4	●	PK	3.56	7	0.45	0.35	3.35	VK10F01
B26.07.0470.PLx3	●	PL	4.70	7	0.38	0.45	4.85	VK10F01

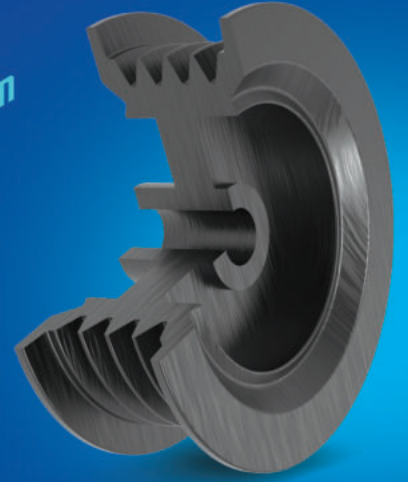
R: Sağ / Right / Rechts L: Sol / Left / Links

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

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VTPVK 2020 K1.60X6

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



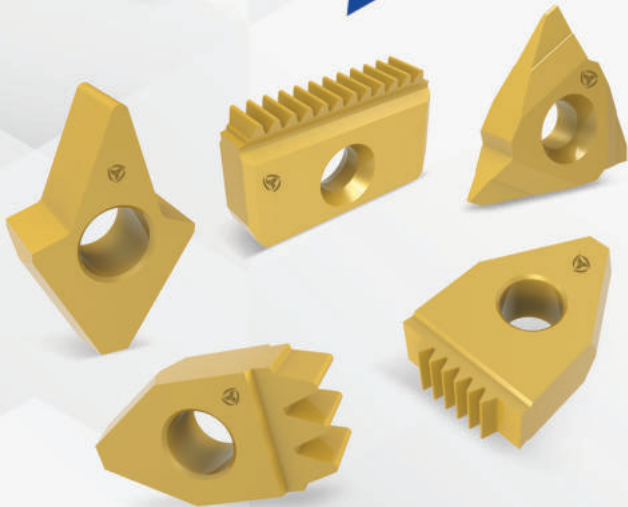
PM Kasnak Çözümleri
PM Pulley Solutions **PM Reimenscheiben Lösungen**

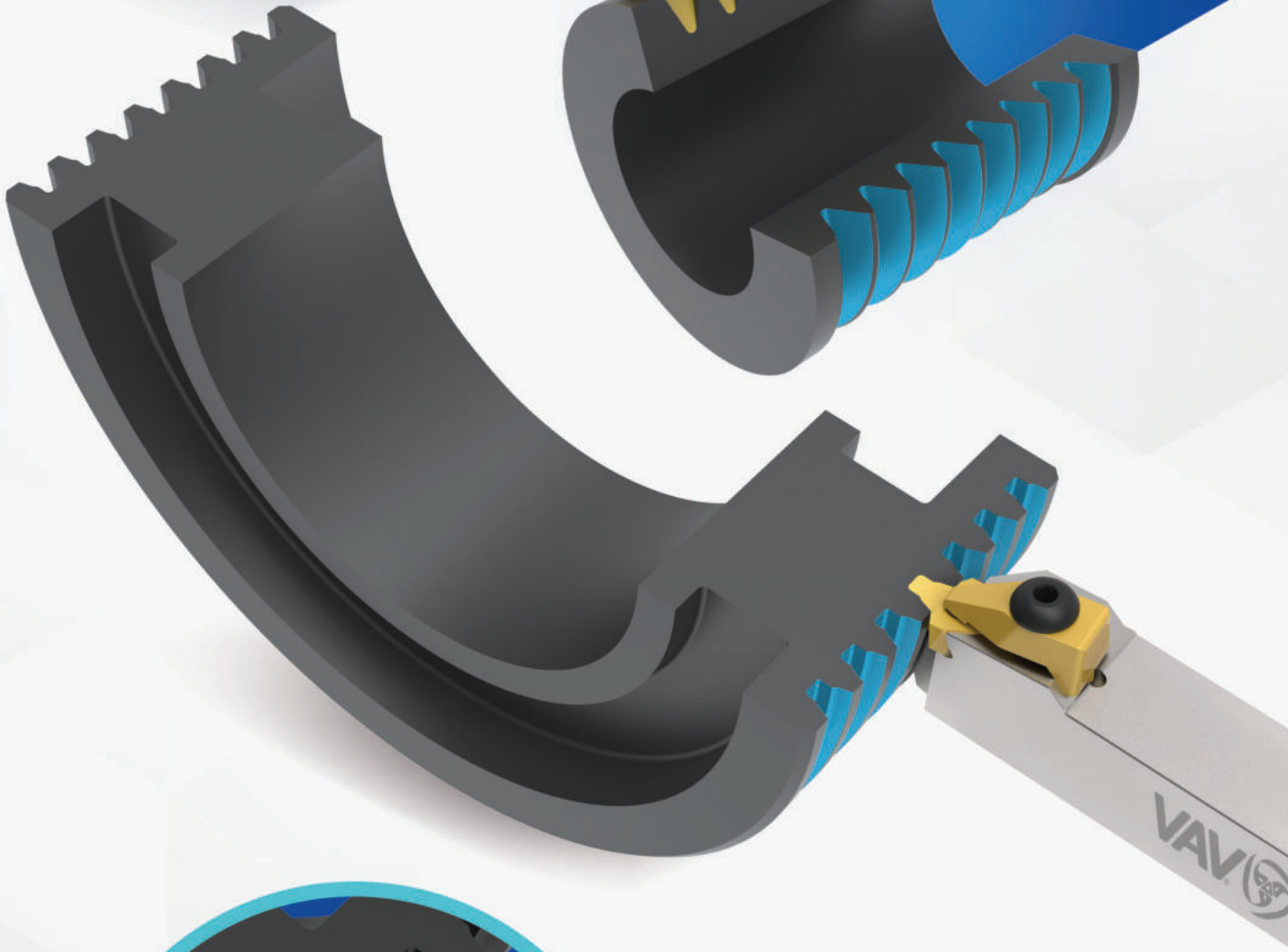
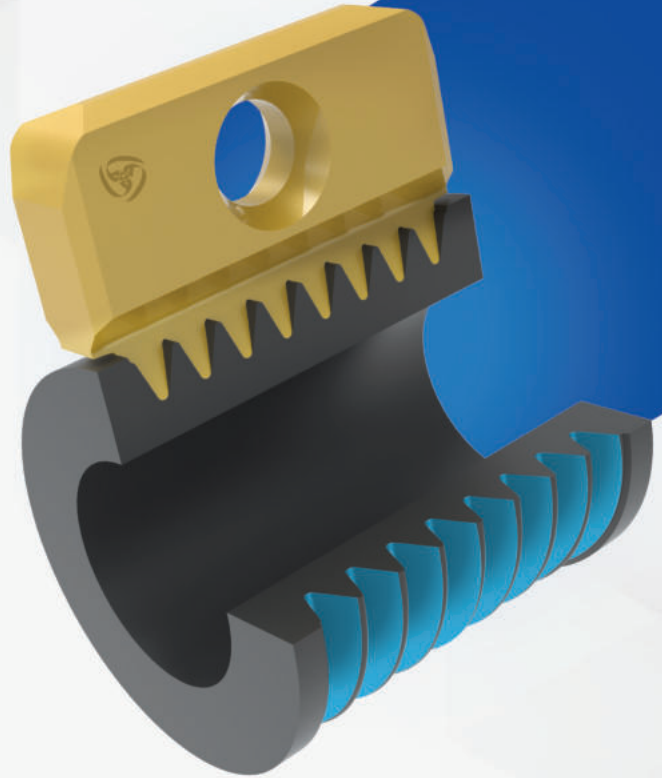
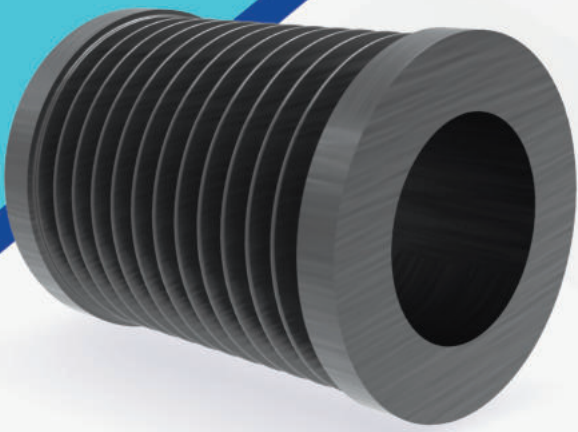


PH Kasnak Çözümleri
PH Pulley Solutions **PH Reimenscheiben Lösungen**



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



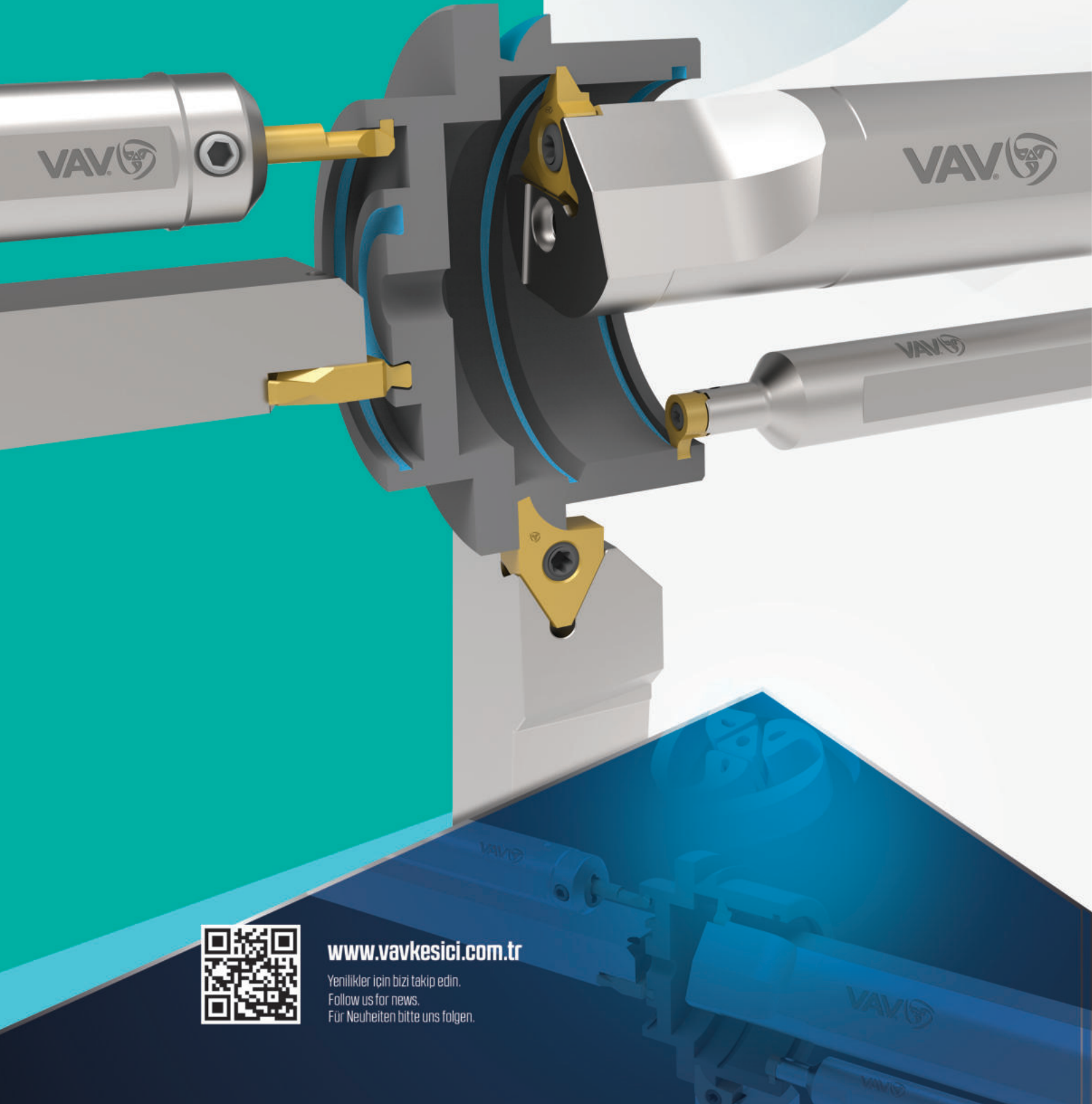


KANAL AÇMA / GROOVING / STECHHALTER

KANAL AÇMA, KÖŞE BOŞALTMA UÇLARI ve TAKIMLARI

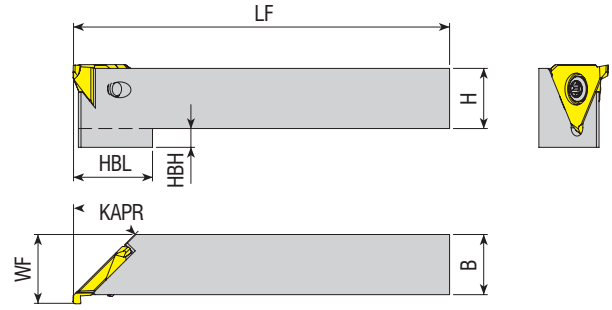
FOR GROOVING AND CORNER RELIEFS

WENDESCHNEIDPLATTEN UND WERKZEUGE FÜR AXIAL FREISTICHE

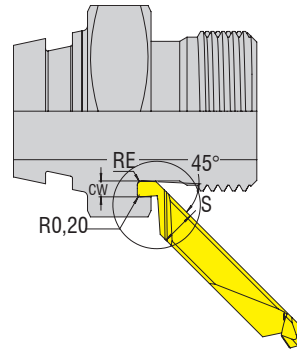
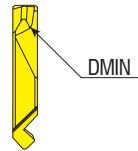
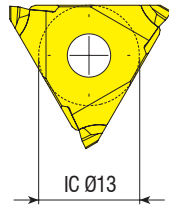
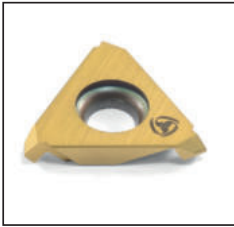


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Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)							Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
	R	L	H	B	WF	LF	HBL	HBH	KAPR		Sıkma Vidası Screw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



Sağ versiyon gösterilmiştir
Right hand version shown
Abbildung zeigt rechte Ausführung

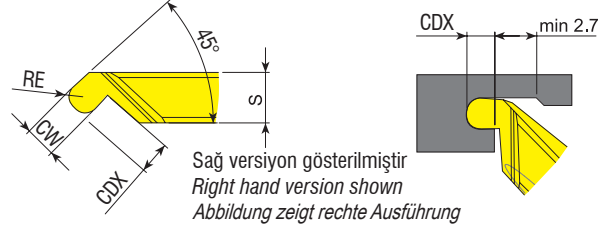
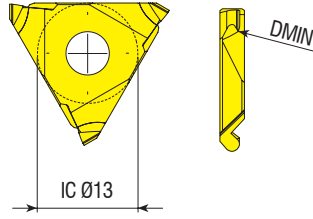
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager		Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)					Kalite Grade Sorte	Minimum Çap Ø Minimum Diameter Ø Kleinsten Durchmesser ø	Kanal Derinliği Depth of Groove Up to Stechtiefe bis zu	Kanal Genişliği Width of Groove Stechbreite
	R	L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

VAUT.. Tipi katerlerle kullanınız. / Use with VAUT type toolholder. / Einsatz mit VAUT-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 $\pm 0.02\text{mm}$ / Indexability length $\pm 0.02\text{mm}$ / Wiederholgenauigkeit Länge $\pm 0,02\text{ mm}$

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



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				
T20.00.1220.45.10R/L	●	●	2.0	3.25	1.0	1.8	12	VK20F01	12	1.8	2

VAUT. Tipi katerlerle kullanınız. / Use with VAUT type toolholder. / Einsatz mit VAUT-Werkzeughalter

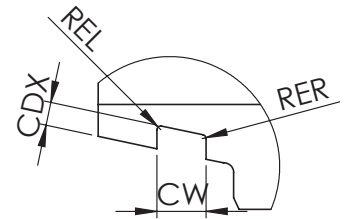
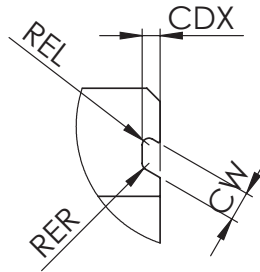
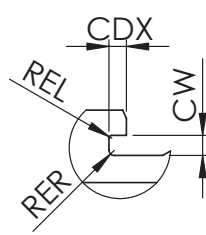
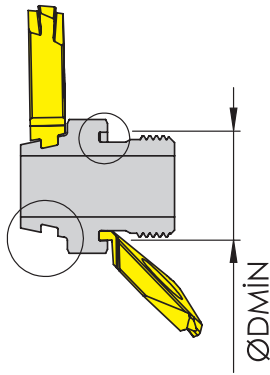
Kullanım öncesinde dip boşluk işlenmiş olmalıdır. / The undercut must be placed before axial machining. / Der Freistich muss vor der Axialbearbeitung gefertigt werden
 İndekslediğinde boy ± 0.02 mm / Indexability length ± 0.02 mm / Wiederholgenauigkeit Länge $\pm 0,02$ mm

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

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

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück T20.00.1220.45.10R/L



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

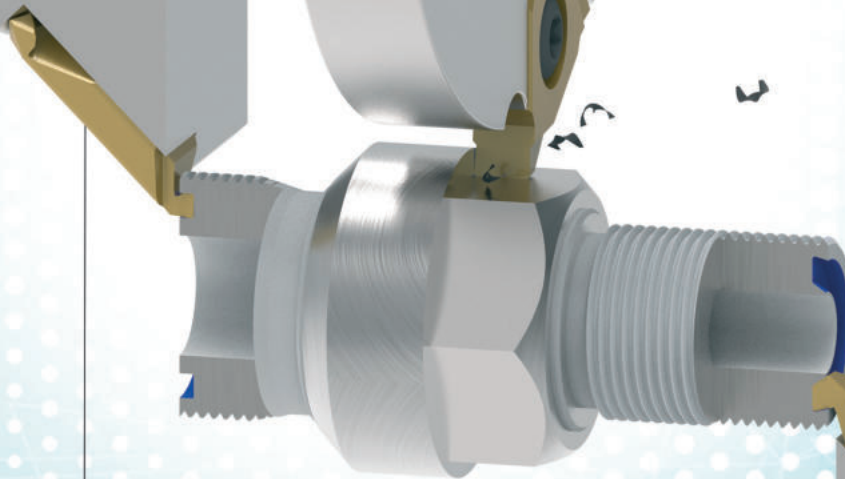
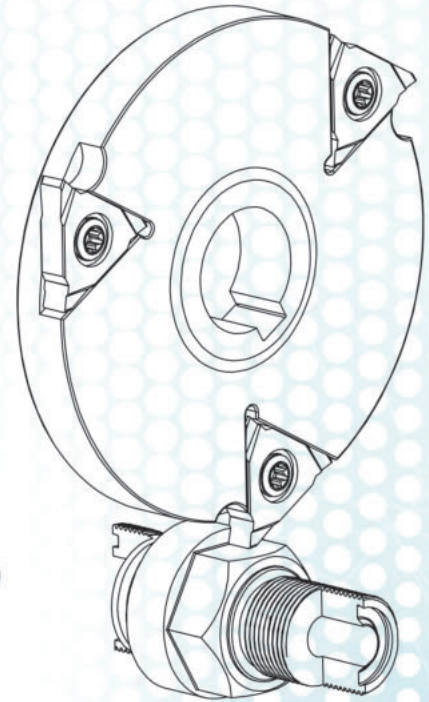
CW	CDX	RER	REL	DMIN	İŞPARÇASI MALZEMESİ / WORKPIECE MATERIAL/ WERKSTÜCKMATERIAL

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

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

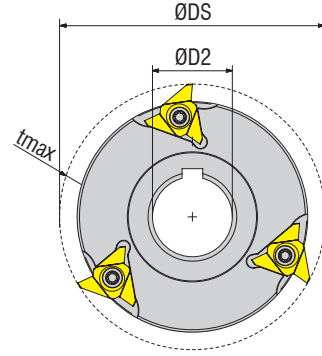
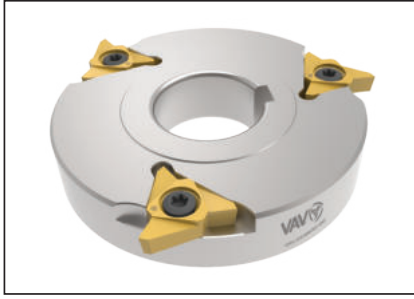
POLYGON FREZELEME
POLYGON MILLING
WERKZEUGE FÜR POLYGON

VAV

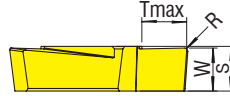
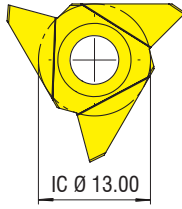
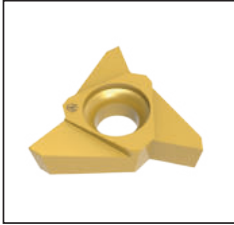


KANAL AÇMA
GROOVING
EINSTECHBOHRUNG

VAV



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
VPTR/L-T12-D90-D27-Z02	○	○	90	27	2	16.20	5	T12..	1020.M5X11	80-T20
VPTR/L-T12-D90-D27-Z03	○	○	90	27	3	16.20	5			



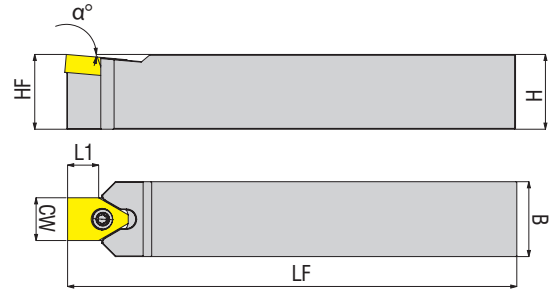
Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)						Kalite Grade Sorte
		W	Tmax	R	K	S	ZEFP	
T12.15.0500.05.020 R/L	○	5	5	0.2	5°	5.2	3	VK20F01

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 VPTR-T12-D90-D27-Z02

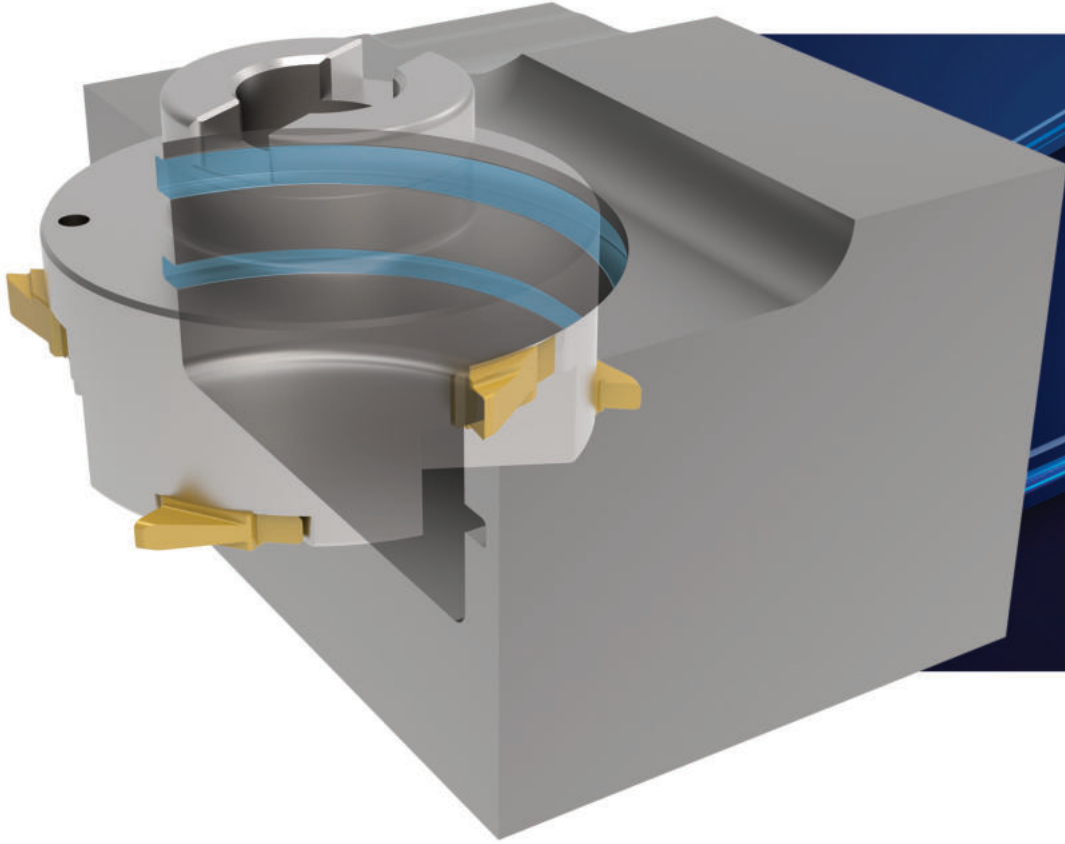


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)							Yedek Parçaları / Spare Parts / Ersatzteile	
		H	B	LF	HF	L1	α	CW	Kesici Uç Insert Wendeschneidplatte	Sıkma Vidası Screw Schraube
VDKT-B41-1616-L125	○	16	16	125	16	8	5°	10		
VDKT-B41-2020-L125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

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



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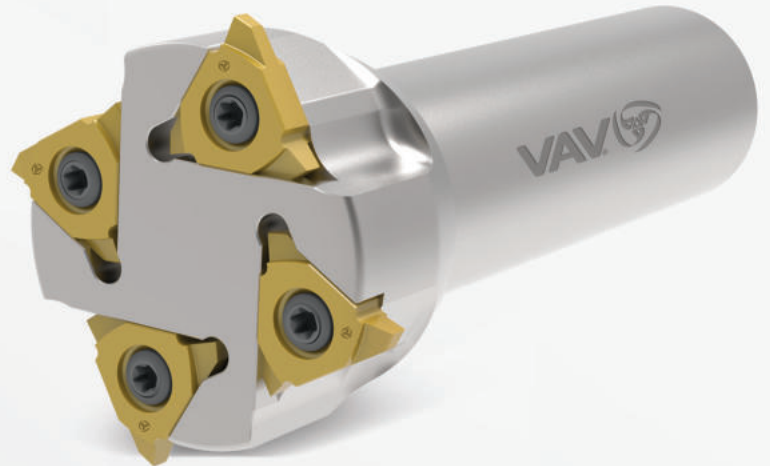


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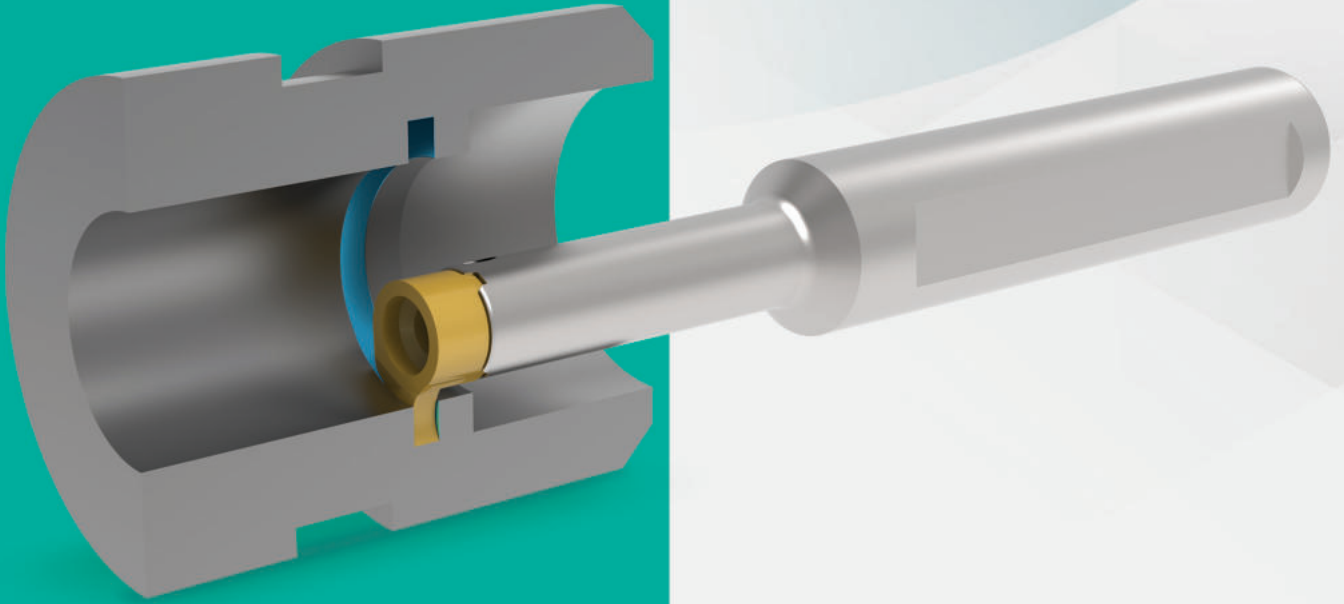
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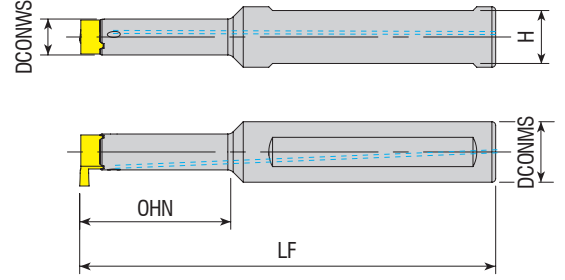
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2025'te Stoklarda

It will be available
at our stocks in 2025

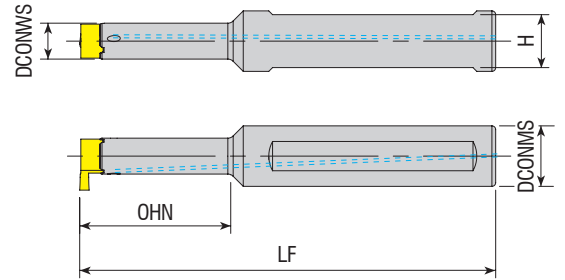
Es wird im Jahr 2025
im Lager verfügbar sein

ÇELİK ŞAFT
STEEL SHAFT
STAHLSCÄFTE

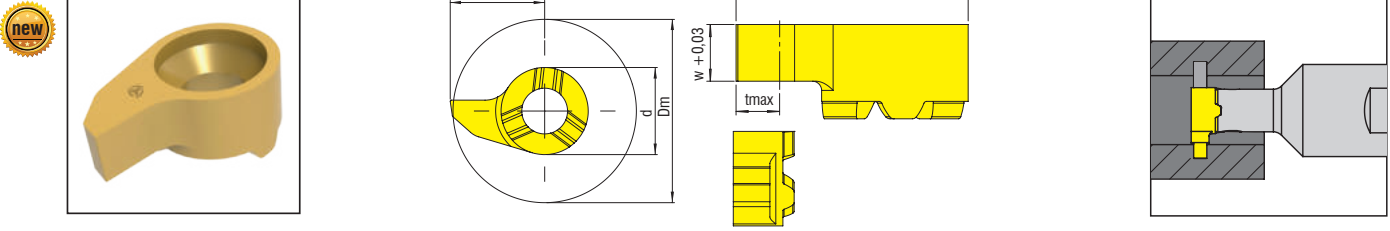


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DCONMS	DCONWS	LF	OHN	H	Dm		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel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

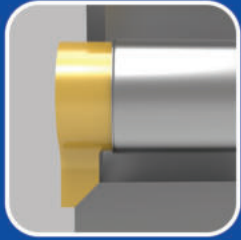


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DCONMS	DCONWS	LF	OHN	H	Dm		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel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

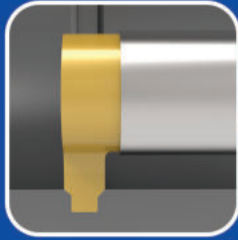


Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
		W	R	a	d	f	tmax	Dm		
MC08.G.0100.010.01340	○	1.0	0.10	10.7	8.0	6.7	2.3	13.4	-MC08-...	VP3001
MC08.G.0150.015.01340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



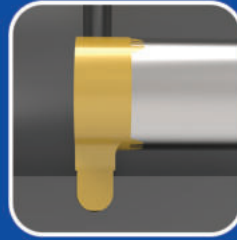
CHAMFER PROFILE



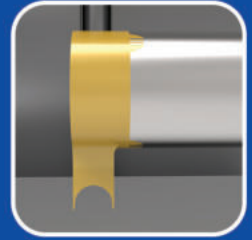
CIRCLIP PROFILE



THREAD PROFILE

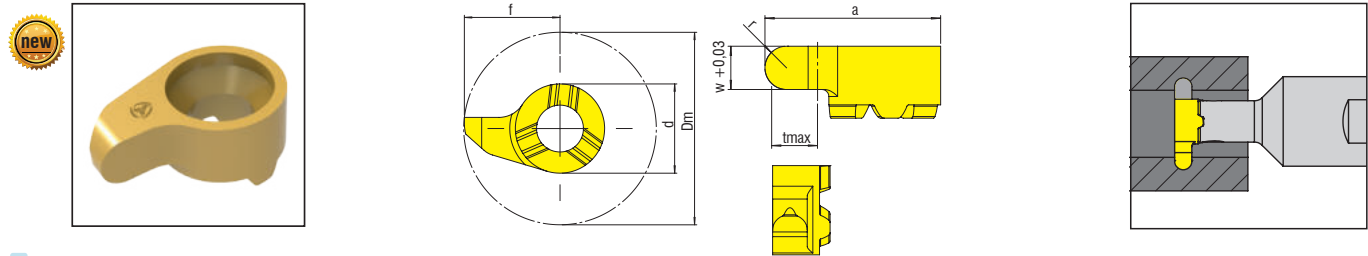


RADIUS GROVE PROFILE

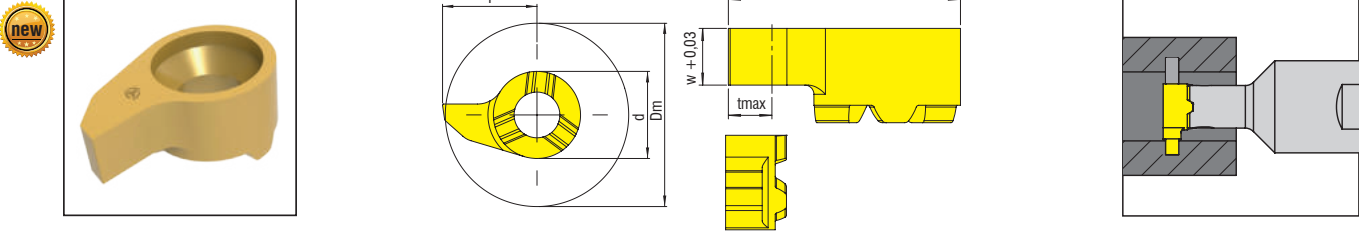


SPECIAL PROFILE

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

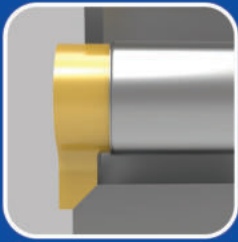


Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
		W	R	a	d	f	tmax	Dm		
MC08.GR.0080.040.01340	○	0.8	0.4	10.7	8	6.7	2.3	13.4	-MC08-...	VP3001
MC08.GR.0120.060.01340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

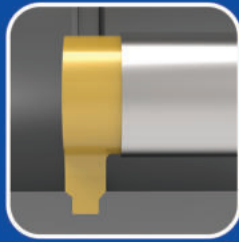


Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)								Kalite Grade Sorte
		W	R	a	d	f	tmax	Dm	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	
MC11.G.0100.010.02040	○	1.0	0.1	15.7	11	10.2	4.3	20.4	-MC11-...	VP3001
MC11.G.0150.015.02040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

Diğer Profil Çeşitleri / THE OTHER PROFILE TYPES / ANDERE PROFIL-TYPEN



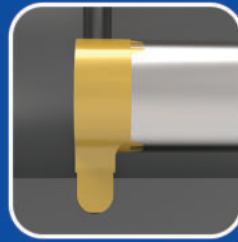
CHAMFER PROFILE



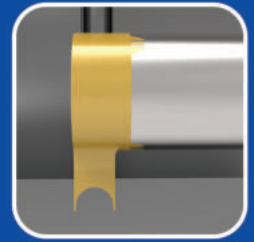
CIRCLIP PROFILE



THREAD PROFILE

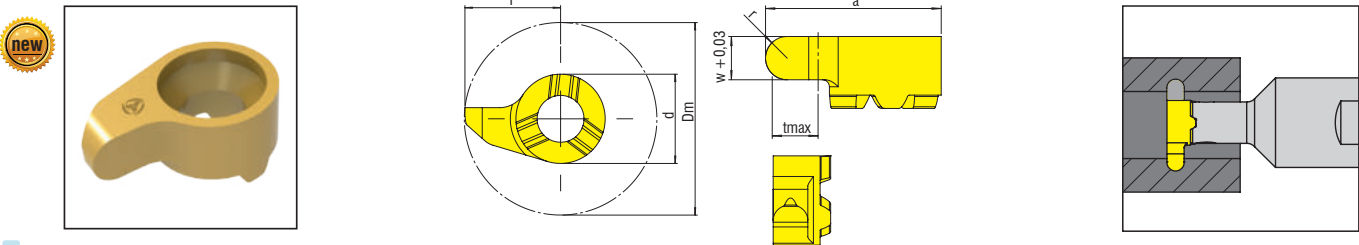


RADIUS GROVE PROFILE



SPECIAL PROFILE

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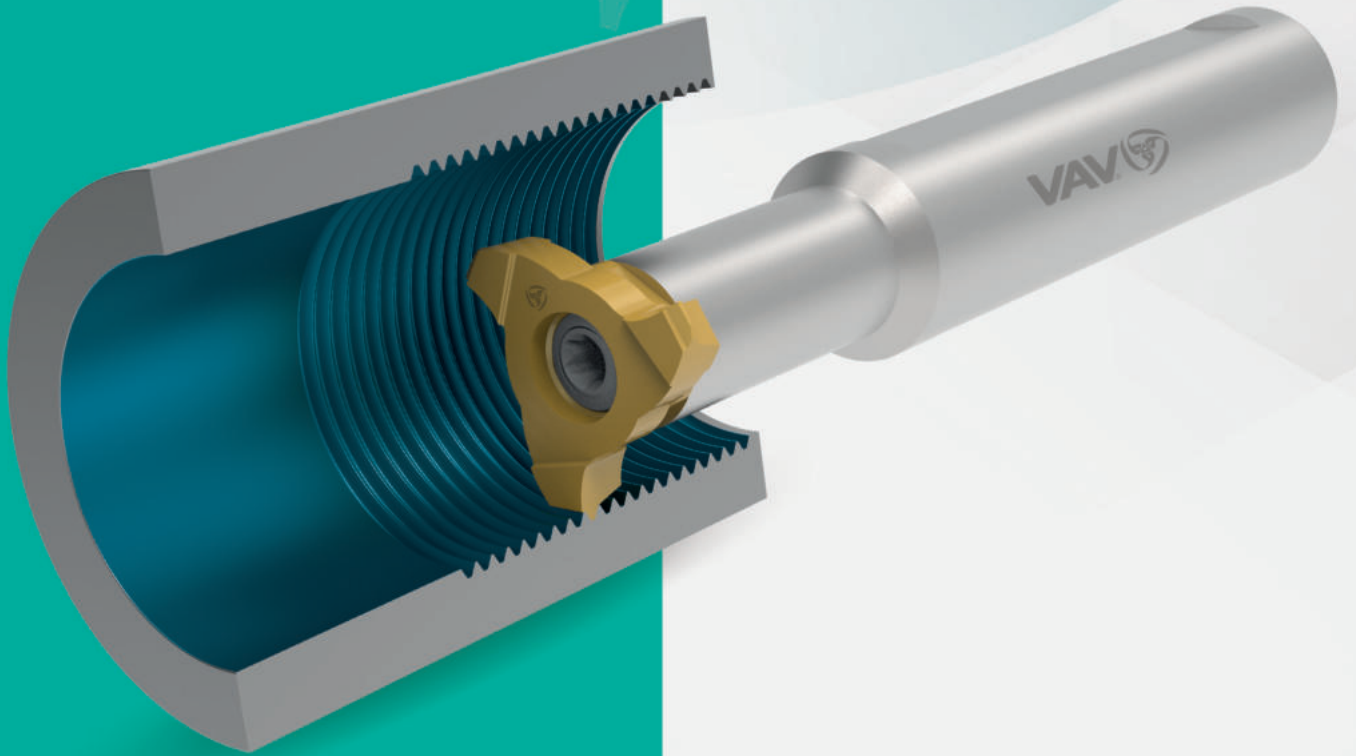


Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)								Kalite Grade Sorte
		W	R	a	d	f	tmax	Dm	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	
MC11.GR.0180.090.02040	○	1.8	0.9	15.7	11.0	10.2	4.3	20.4	-MC11-...	VP3001
MC11.GR.0220.110.02040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

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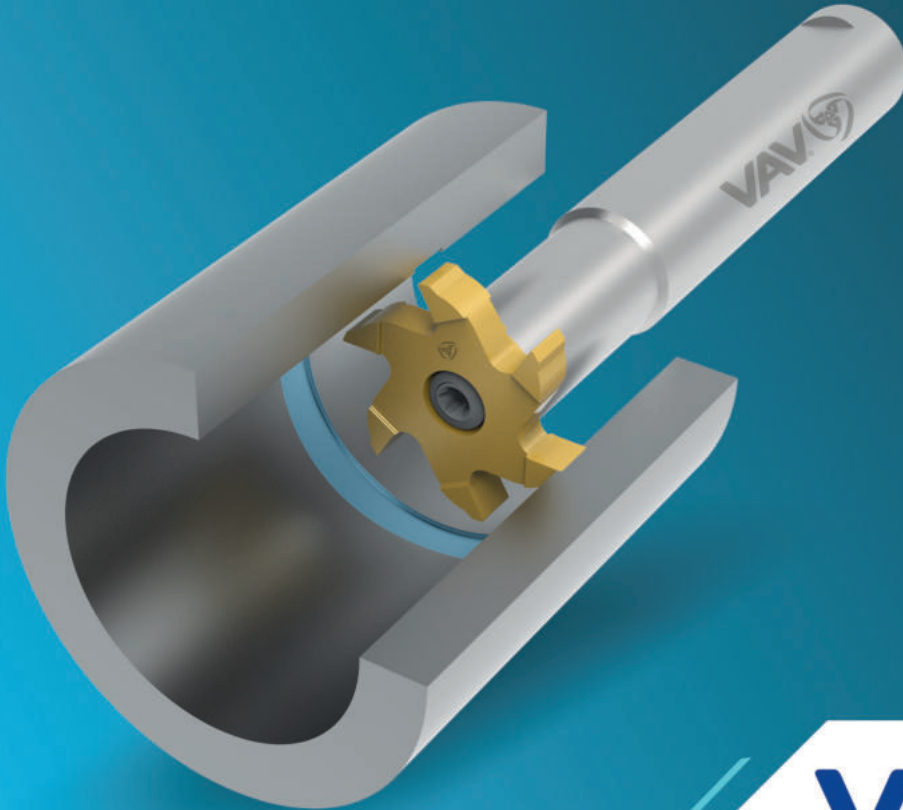
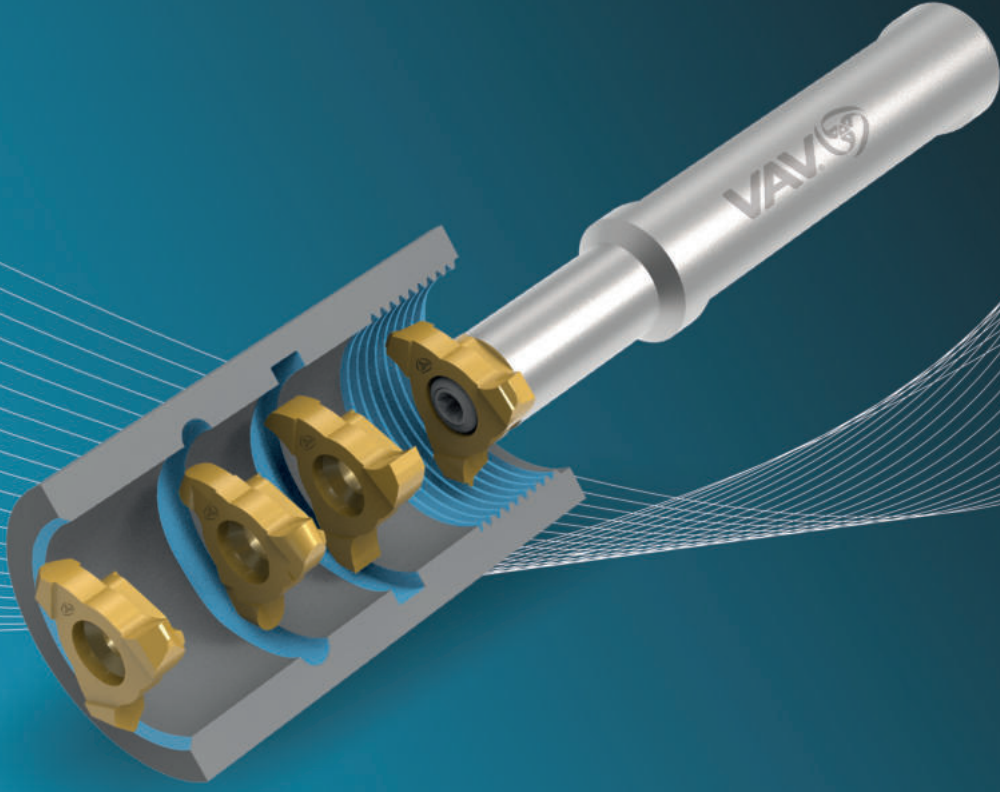
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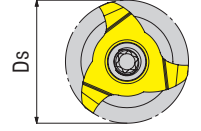
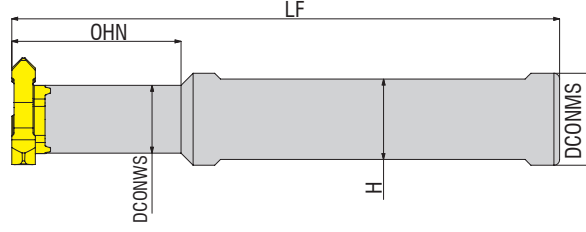
Es wird im Jahr 2025
im Lager verfügbar sein

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Ø Ds 17.7

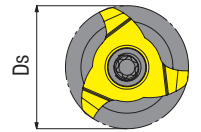
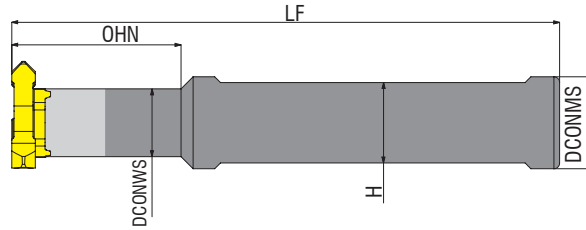
ÇELİK ŞAFT
STEEL SHAFT
STAHL SCHAFT



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
VMM-MM1803-W12-L70-S	○	12	9	70	18	11	MM1803...	4015-M4x12	80-T15
VMM-MM1803-W16-L80-S	○	16	9	80	26	15			

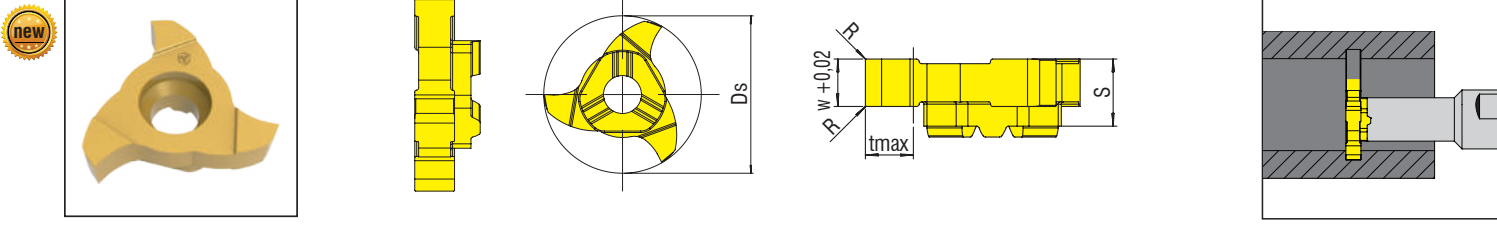
Ø Ds 17.7

KARBÜR ŞAFT
CARBIDE SHAFT
HARTMETALLSCHAFT

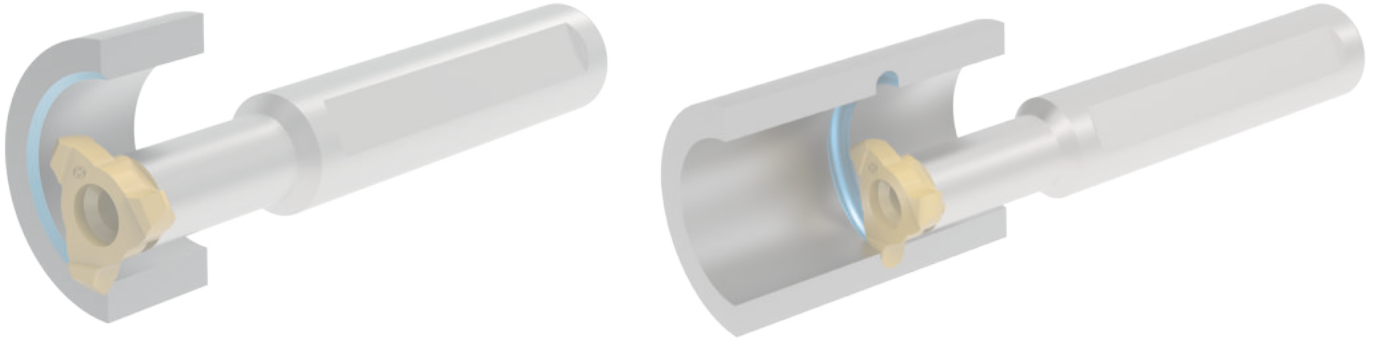


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel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

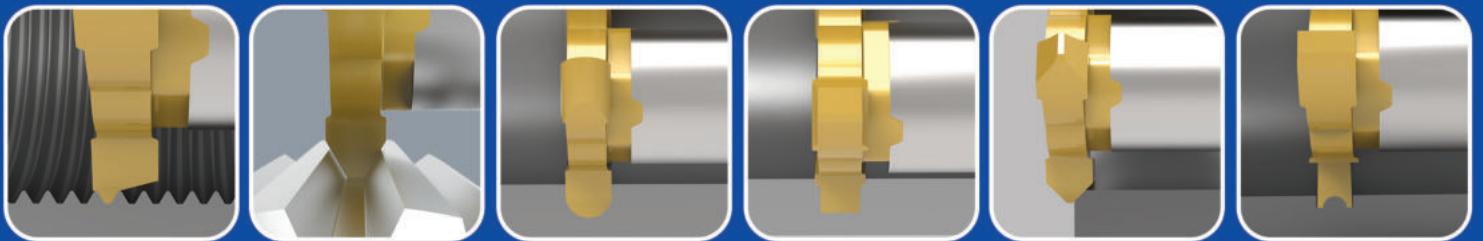
ø Ds 17.7



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



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



THREAD PROFILE

GEAR PROFILE

RADIUS GROOVE PROFILE

CIRCLIP PROFILE

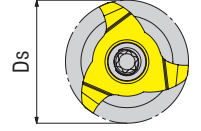
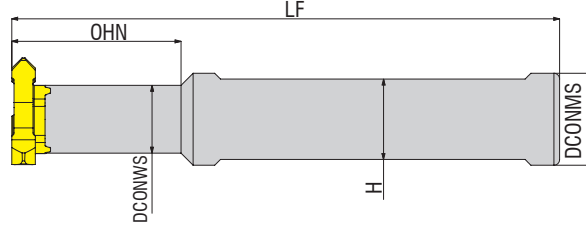
CHAMFER PROFILE

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 21.7

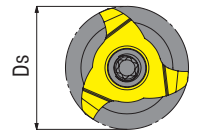
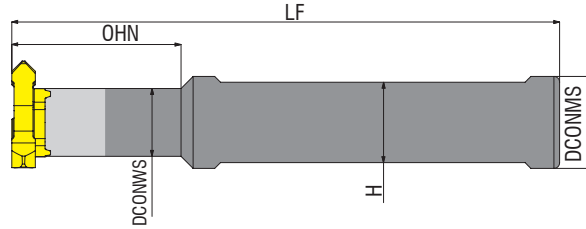
ÇELİK ŞAFT
STEEL SHAFT
STAHL SCHAFT



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
VMM-MM2203-W12-L070-S	○	12	12	70	18	11	MM2203...	1020-M5x14	80-T20
VMM-MM2203-W16-L080-S	○	16	12	80	26	15			

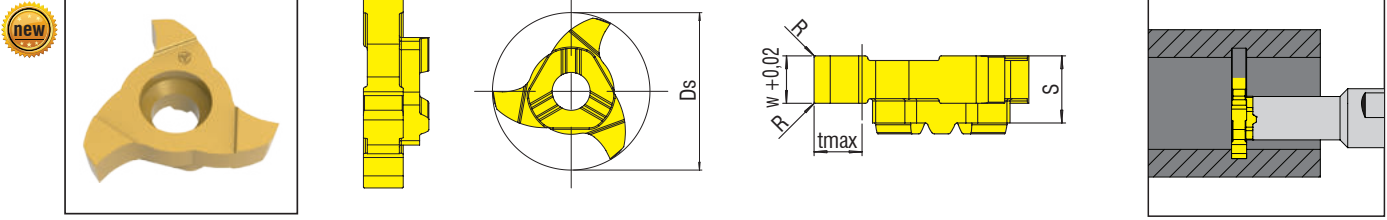
Ø Ds 21.7

KARBÜR ŞAFT
CARBIDE SHAFT
HARTMETALLSCHAFT

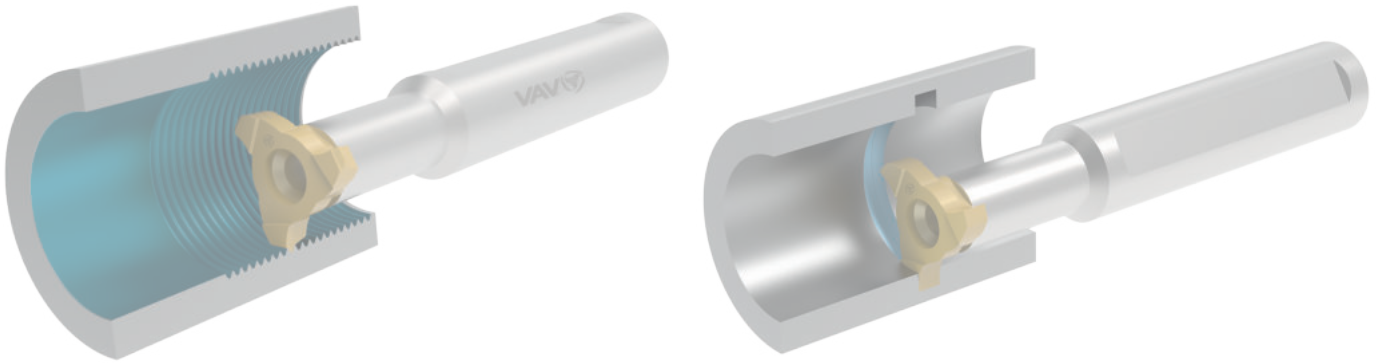


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel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

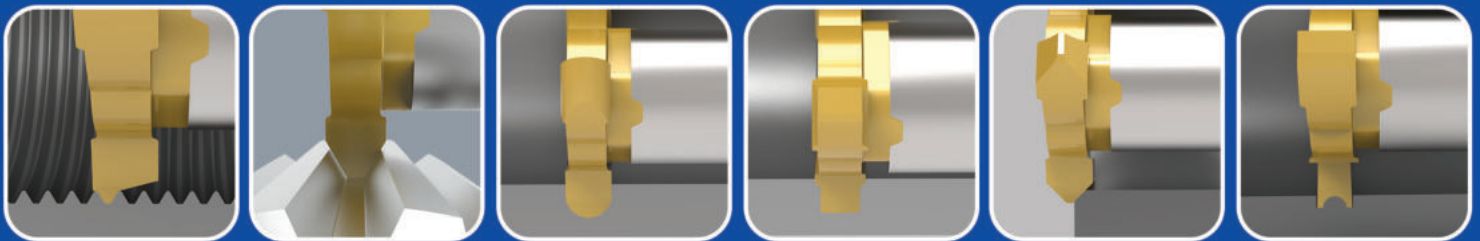
Ø Ds 21.7



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



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



THREAD PROFILE

GEAR PROFILE

RADIUS GROOVE PROFILE

CIRCLIP PROFILE

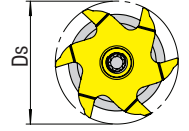
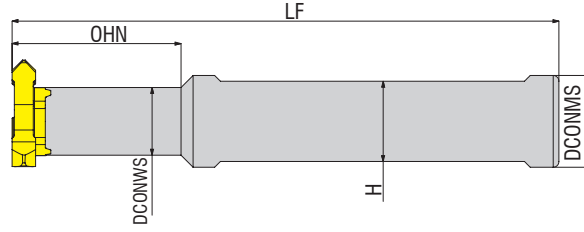
CHAMFER PROFILE

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.

Ø Ds 27.7

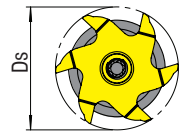
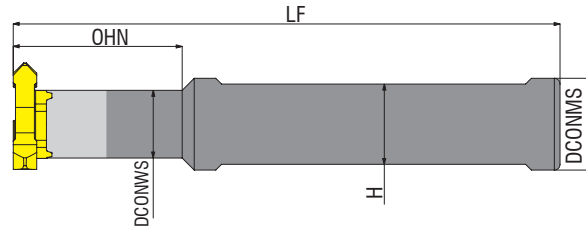
ÇELİK ŞAFT
STEEL SHAFT
STAHL SCHAFT



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
VMM-MM2806-W12-L070-S	○	12	14.5	70	20	11	MM2806...	1020-M5x14	80-T20
VMM-MM2806-W16-L090-S	○	16	14.5	90	36	15			
VMM-MM2806-W20-L100-S	○	20	14.5	100	36	18			

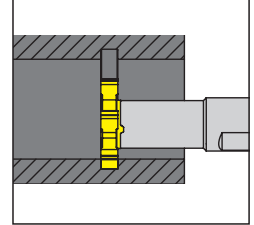
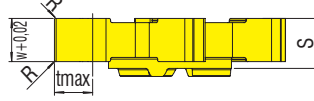
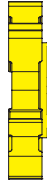
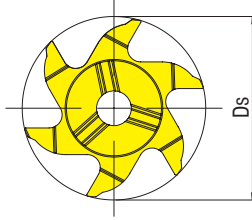
Ø Ds 27.7

KARBÜR ŞAFT
CARBIDE SHAFT
HARTMETALLSCHAFT

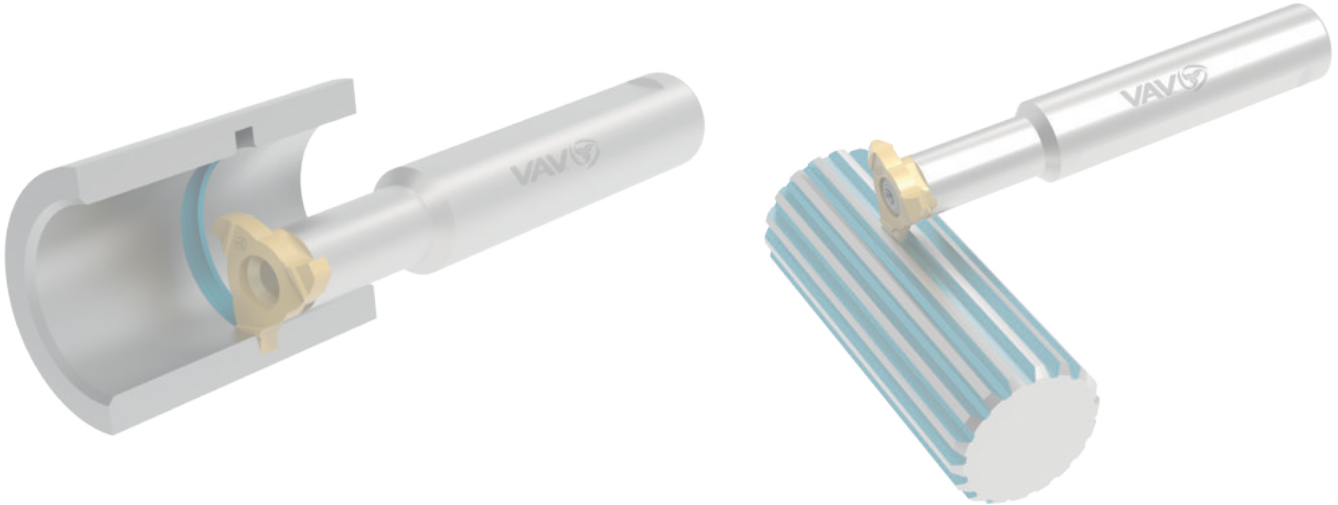


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel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

Ø Ds 27.7



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



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



THREAD PROFILE



GEAR PROFILE



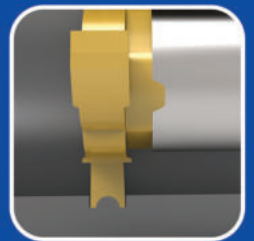
RADIUS GROVE PROFILE



CIRCLIP PROFILE



CHAMFER PROFILE

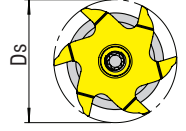
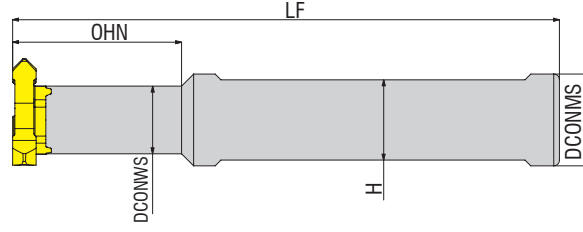


SPECIAL PROFILE

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

Ø Ds 31.7

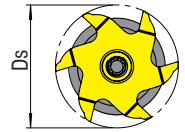
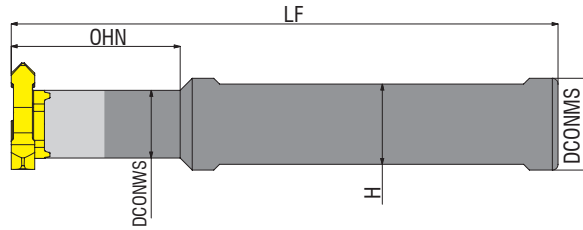
ÇELİK ŞAFT
STEEL SHAFT
STAHL SCHAFT



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
VMM-MM3306-W16-L90-S	○	16	14.5	90	36	15	MM3306...	1020-M5x14	80-T20
VMM-MM3306-W20-L100-S	○	20	14.5	100	36	18			

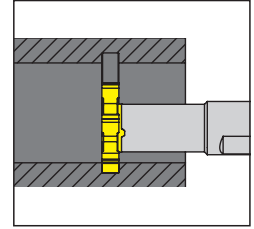
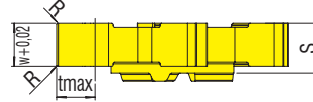
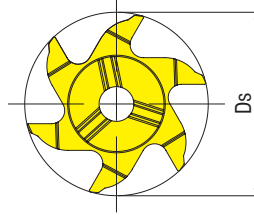
Ø Ds 31.7

KARBÜR ŞAFT
CARBIDE SHAFT
HARTMETALLSCHAFT

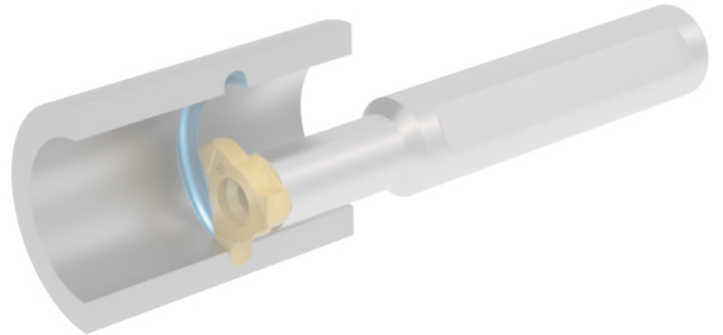
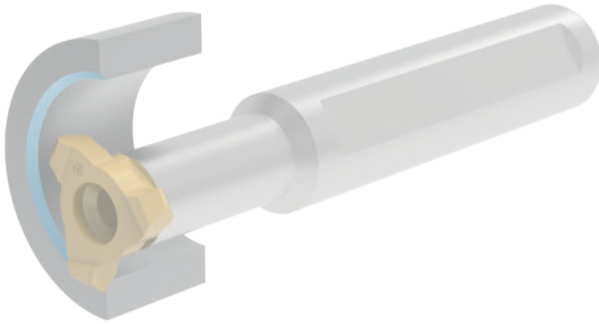


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DCONMS	DCONWS	LF	OHN	H		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx Innensechskantschlüssel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

Ø Ds 31.7



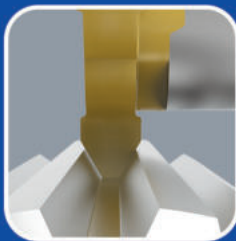
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)						UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG	Kalite Grade Sorte
		Ds	W	R	tmax	S	Z		
MM3306.G.0200.020.3170	○	31.7	2.0	0.2	8.3	5.9	6	-MM3306-...	VP3001
MM3306.G.0250.020.3170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



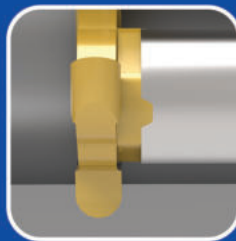
DİĞER PROFİL ÇEŞİTLERİ / THE OTHER PROFILE TYPES / ANDERE PROFIL-TYPEN



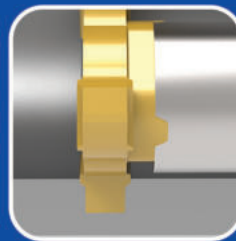
THREAD PROFILE



GEAR PROFILE



RADIUS GROVE PROFILE



CIRCLIP PROFILE



CHAMFER PROFILE



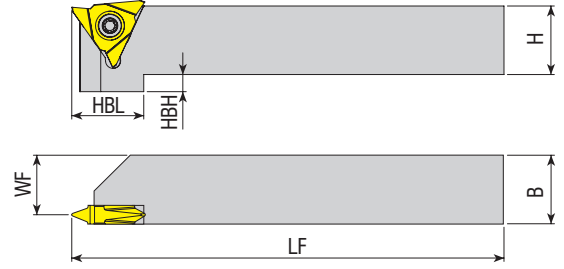
SPECIAL PROFILE

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

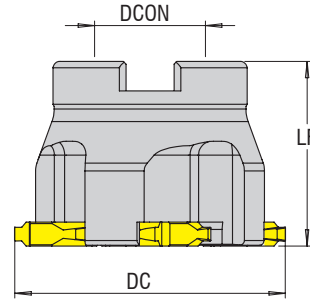
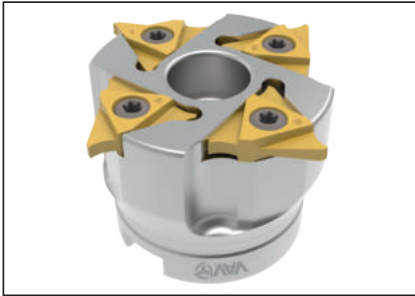
SEGMAN UÇLARI ve TAKIMLARI

RING INSERTS and TOOLHOLDERS
RINGEINSÄTZE und WERKZEUGHALTER



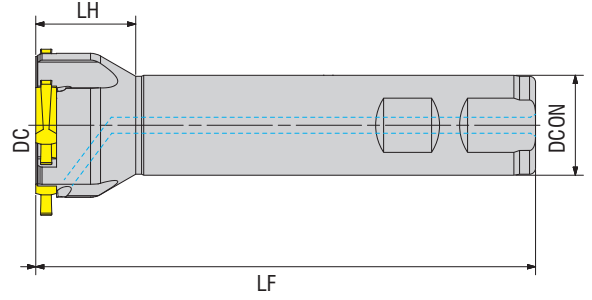


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
	R	L	H	B	WF	LF	HBL	HBH		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
											
VDKT-T12P-R/L-1616-T5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



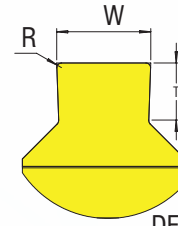
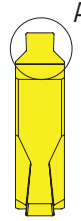
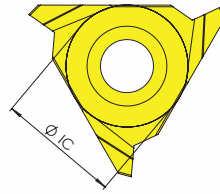
Takım Kodu Ordering Code Bestell-Bezeichnung	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
	DC	ZEFP	DCON	LF	APMX		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
VFSM-T12-D60x5.2-A22-Z04	60	4	22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

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



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

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



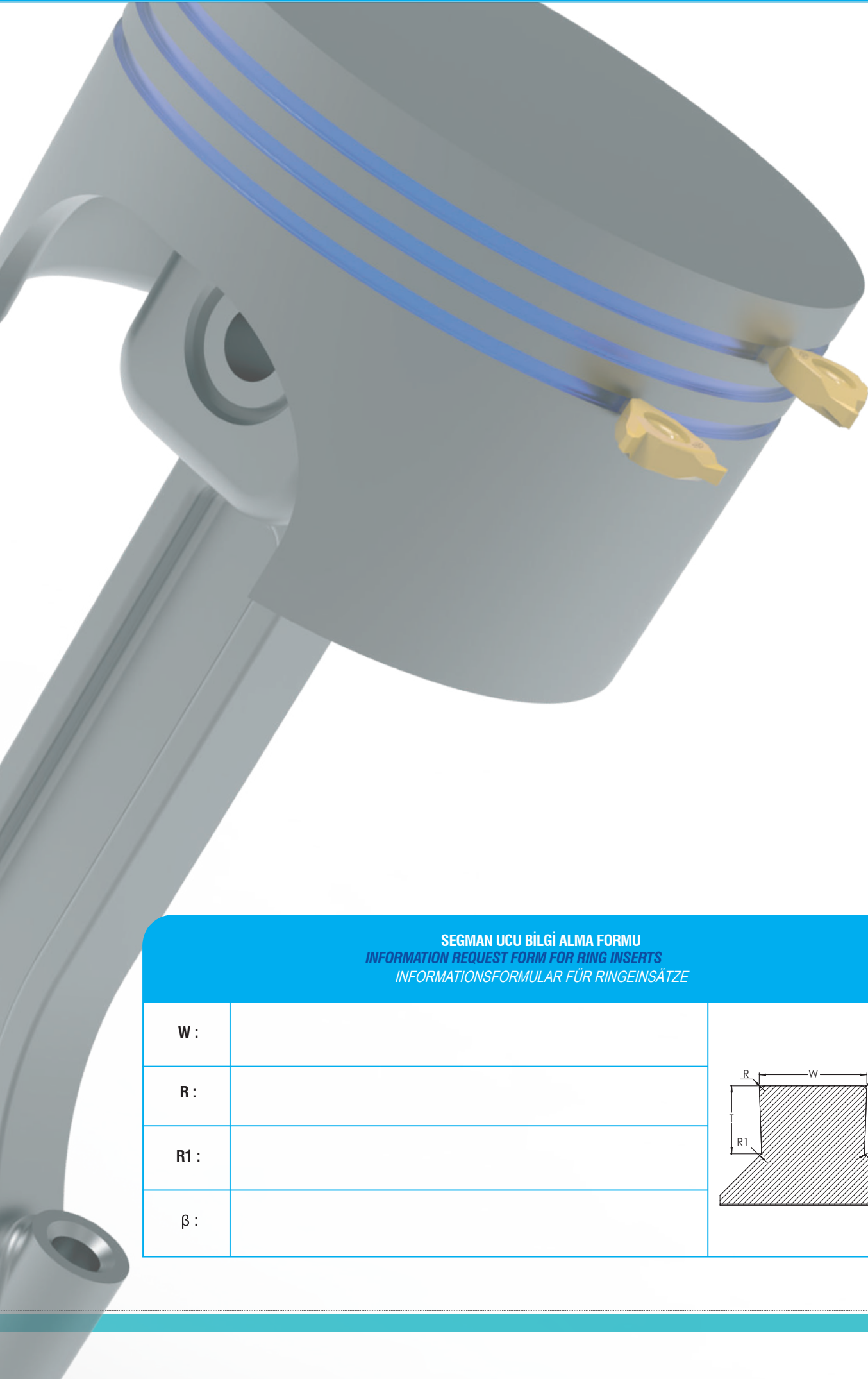
DIN471/472_DIN 983/984
NW: NOMINAL SEGMAN KALINLIĞI
NW: NOMINAL CIRCLIP THICKNESS

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





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

W :		
R :		
R1 :		
β :		

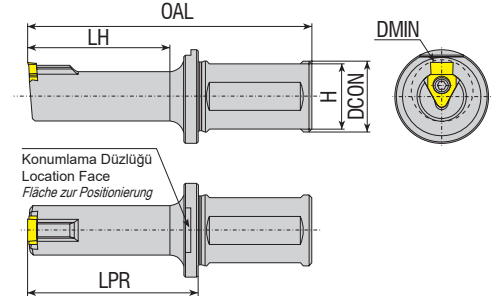
BROŞ

BROŞ ÇEKME UÇLARI ve TAKIMLARI

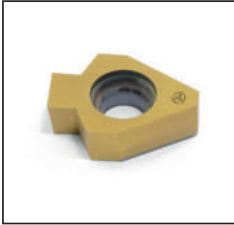
BROACHING INSERTS and TOOLHOLDERS

*WENDESCHNEIDPLATTEN und WERKZEUGHALTER FÜR
DIE NUTBEARBEITUNG*

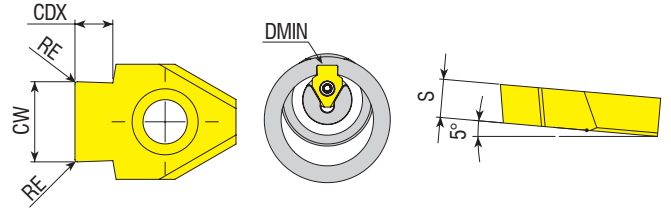




Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendescheidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DMIN	LH	DCON	OAL	LPR	H		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
new VBT-B41-D14-Y25-L90-I040	●	14	40	25	90	50	23	B41...	4015-M4x11	80-T15
VBT-B41-D17-Y25-L90-I040	●	17	40	25	90	50	23			
VBT-B41-D17-Y25-L105-I065	●	17	65	25	105	75	23			
VBT-B41-D22-Y25-L100-I050	●	22	50	25	100	60	23			
VBT-B41-D22-Y25-L125-I070	●	22	70	25	125	80	23			
VBT-B41-D30-Y32-L170-I110	●	30	110	32	170	60	30			
VBT-B42-D30-Y32-L100-I050	●	30	50	32	100	60	30	B42...	1020-M5x14	80-T20
VBT-B42-D30-Y32-L125-I075	●	30	75	32	125	85	30			
VBT-B42-D30-Y32-L170-I110	●	30	110	32	170	120	30			
VBT-B42-D38-Y32-L100-I050	●	38	50	32	100	60	30			
VBT-B42-D38-Y32-L125-I075	●	38	75	32	125	85	30			
VBT-B42-D40-Y32-L100-I050	●	40	50	32	100	60	30			
VBT-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	
B41.00.0612.085.VP3001	●	6.12	0.85	2.6	4.0	22	VBT-B41-D22...
B41.00.0713.085.VP3001	●	7.13	0.85	3.3	4.0	22	
B41.00.0813.105.VP3001	●	8.13	1.05	3.4	4.0	22	
B42.00.1013.105.VP3001	●	10.13	1.05	4.2	6.0	30	VBT-B42-D30...
B42.00.1215.135.VP3001	●	12.15	1.35	5.1	6.0	38	VBT-B42-D38...
B42.00.1215.175.VP3001	●	12.15	1.75	6.6	6.0	38	
B42.00.1215.225.VP3001	●	12.15	2.25	8.5	6.0	38	

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

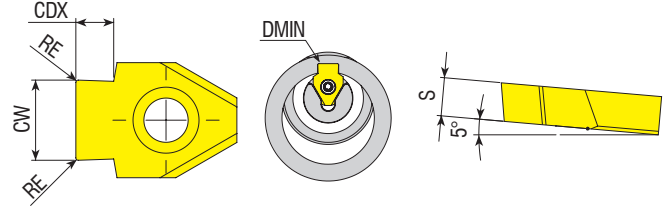
R: Sağ / Right / Rechts L: Sol / Left / Links

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

Sipariş Örneği/Ordering Example/Bestellbeispiel
1 ad./pcs./stück VBT-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) Wendepplatten für Keilnutenfertigung auf Dreh- und Fräsmaschinen

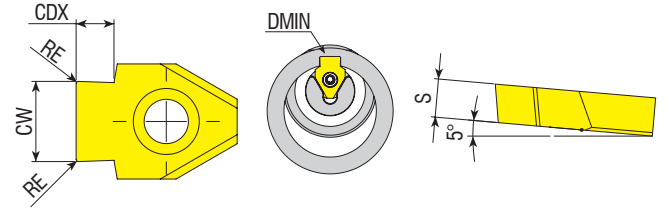


Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)					UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
		CW	RE	CDX	S	DMIN	
B41.00.0407.012.VP3001	○	4.07	0.12	2.2	4.0	14	VBT-B41-D14...
B41.00.0507.020.VP3001	○	5.07	0.2	2.9	4.0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



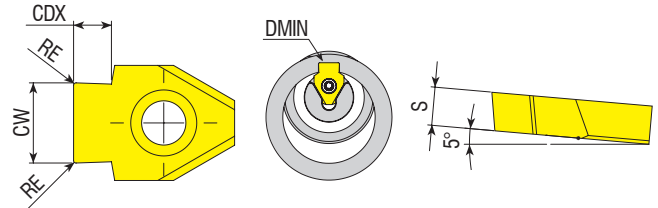
Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)					UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
		CW	RE	CDX	S	DMIN	
B41.00.0498.020.VP3001	●	4.98	0.20	2.7	4.0	17	VBT-B41-D17
B41.00.0598.020.VP3001	●	5.98	0.20	3.4	4.0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

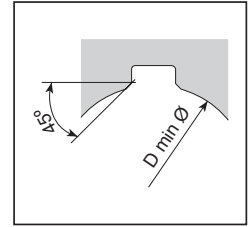
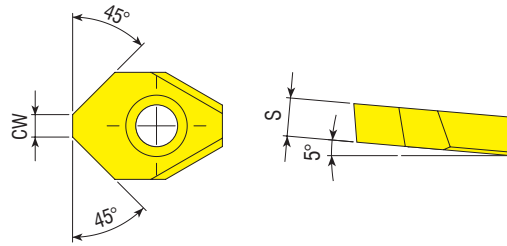


Uç Kodu Insert Code Wendeplatten-Bezeichnung/Idplatte	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)					UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
		CW	RE	CDX	S	DMIN	
B41.00.0301.020.VP3001	●	3.01	0.20	3.0	4.0	17	VB-T-B41.3.01-D17-.....
B41.00.0501.020.VP3001	●	5.01	0.20	2.7	4.0	17	VB-T-B41-D17
B41.00.0601.020.VP3001	●	6.01	0.20	3.4	4.0	17	VB-T-B41-D17
B41.00.0801.020.VP3001	●	8.01	0.20	4.1	4.0	22	VB-T-B41-D22
B42.00.1001.030.VP3001	●	10.01	0.30	4.2	6.0	30	VB-T-B42-D30
B42.00.1200.050.VP3001	●	12.00	0.50	8.5	6.0	38	VB-T-B42-D38
B42.00.1201.030.VP3001	●	12.01	0.30	5.7	6.0	38	VB-T-B42-D38
B42.00.1401.030.VP3001	●	14.01	0.30	6.8	6.0	40	VB-T-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/Idplatte	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	VB-T-B41-D17
B41.00.0300.CH.VP3001	●	22	3.0	4.0	VB-T-B41-D22
B42.00.0600.CH.VP3001	●	30	6.0	6.0	VB-T-B42-D30

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

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

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

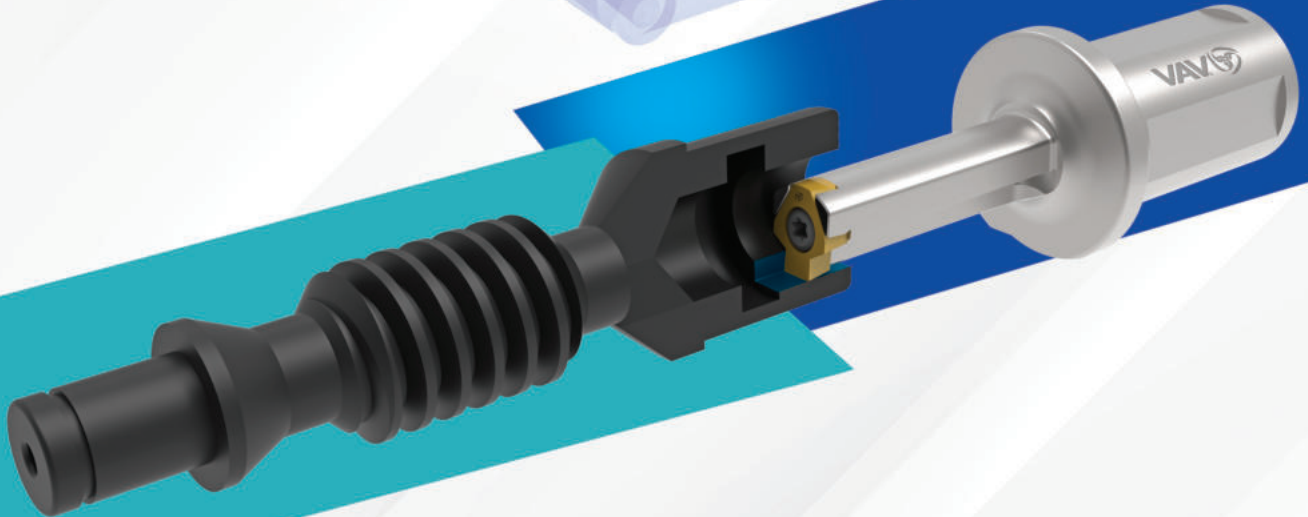
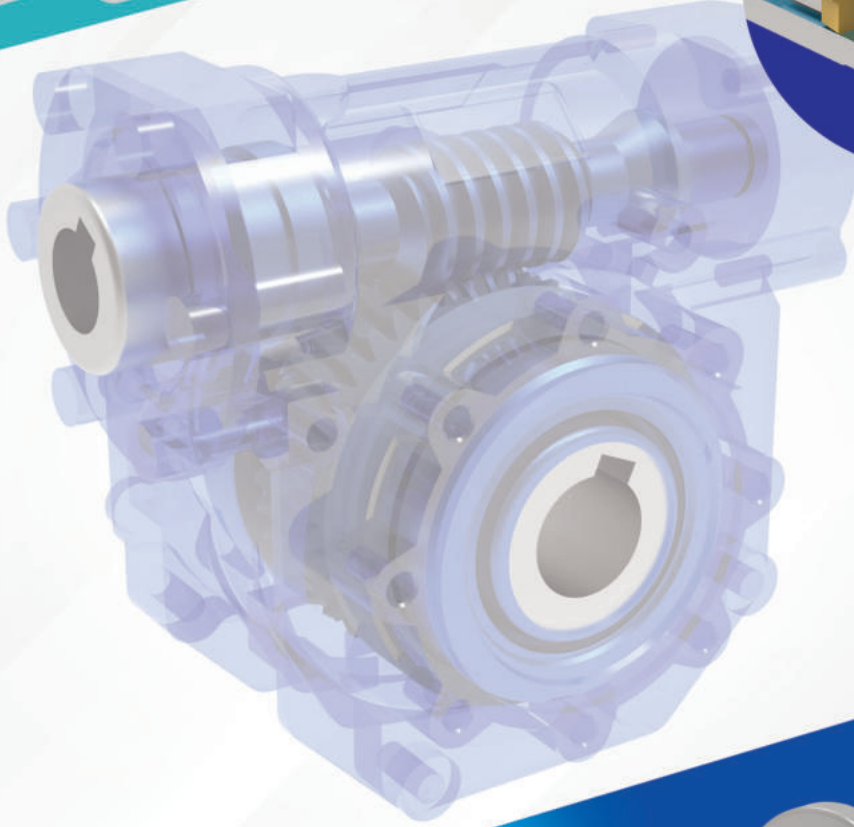
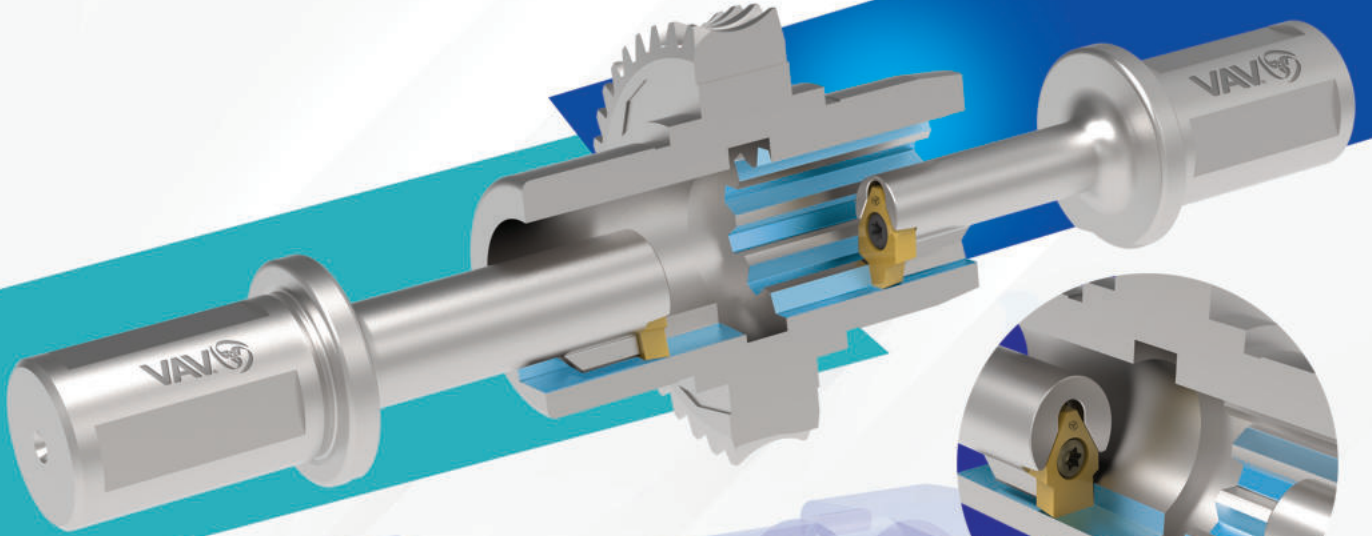
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück B41.00.0501.020.VP3001

BROŞ ÖZEL ÇÖZÜMLER

SPECIAL SOLUTIONS FOR BROACHING

NUTBEARBEITUNG SPEZIELLE LÖSUNGEN



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



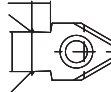
Profil uçlar müşterilerimizin özel taleplerine göre üretilmektedir.
Profiled inserts are manufactured according to customer special requirements.
Die Profil-Wendeschneidplatten werden nach Kundenwunsch gefertigt.

1



Üretmemizi istediğiniz 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.

2



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

3



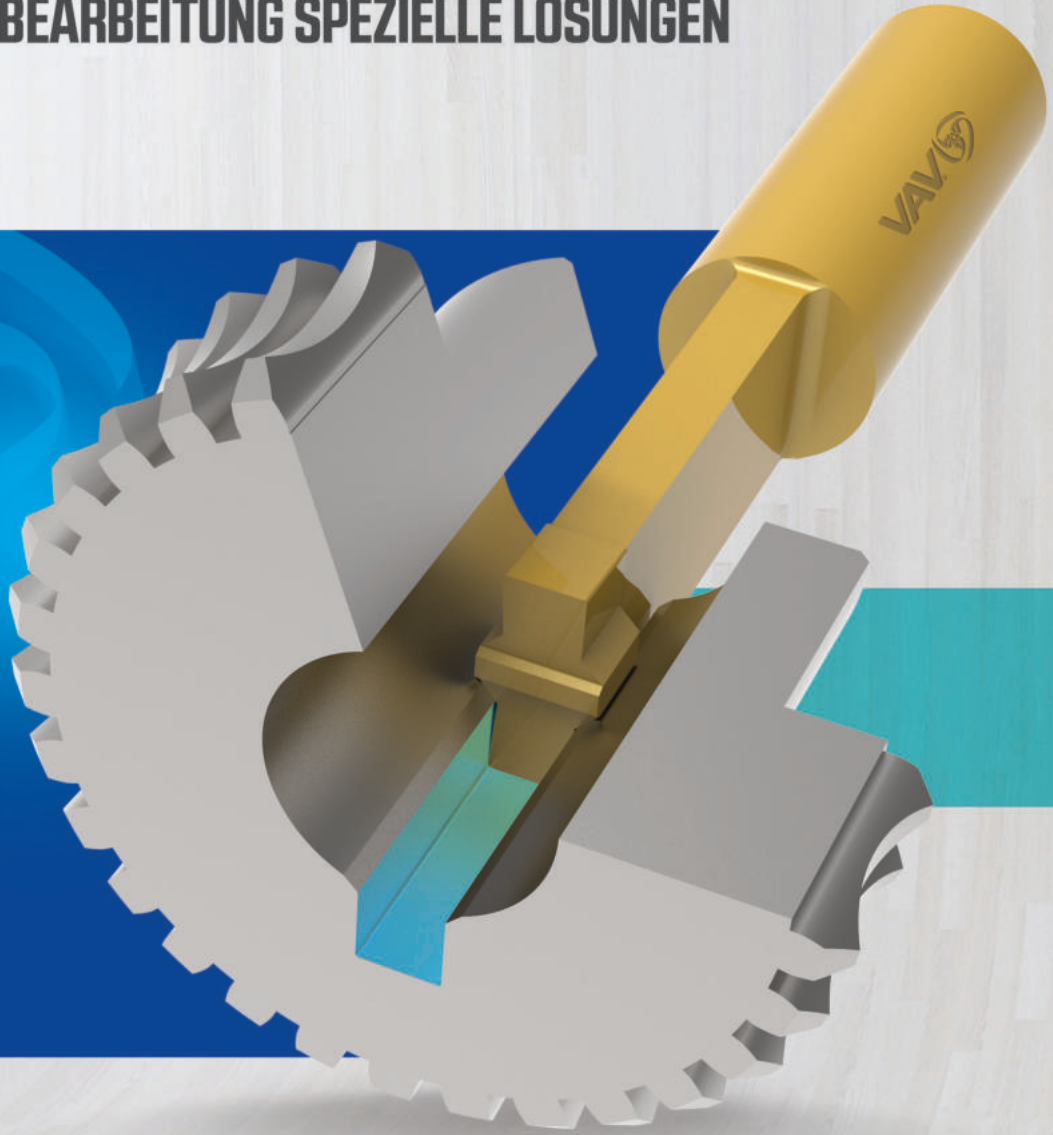
Üretimi yapıp size gönderelim.
We produce it and ship it to you.
Wir werden es produzieren und Ihnen ausliefern.

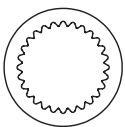
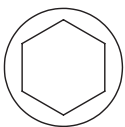
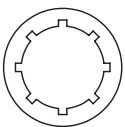
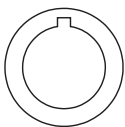
BROŞ UCU BİLGİ ALMA FORMU / BROACHING INSERT INFORMATION FORM / INFORMATIONSBLATT FÜR DIE WENDESCHNEIDPLATTE DER NUTBEARBEITUNG

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



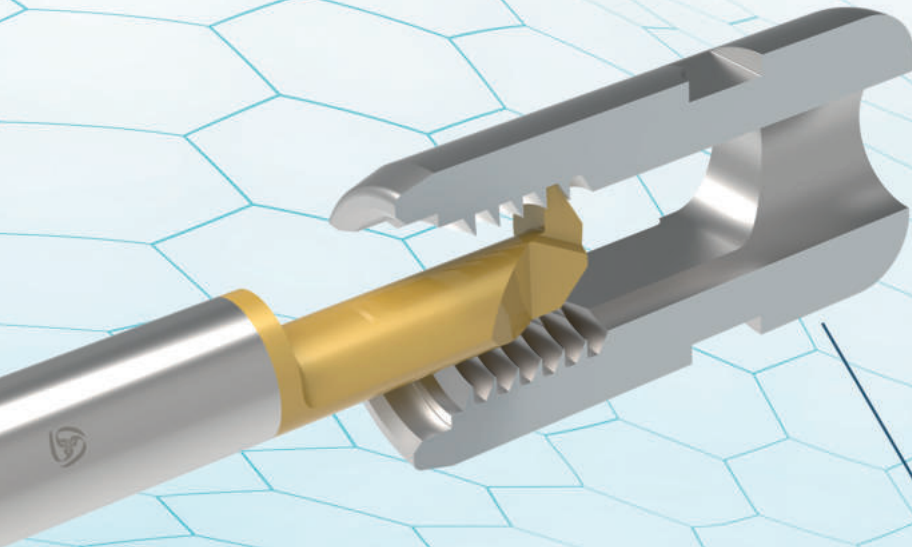
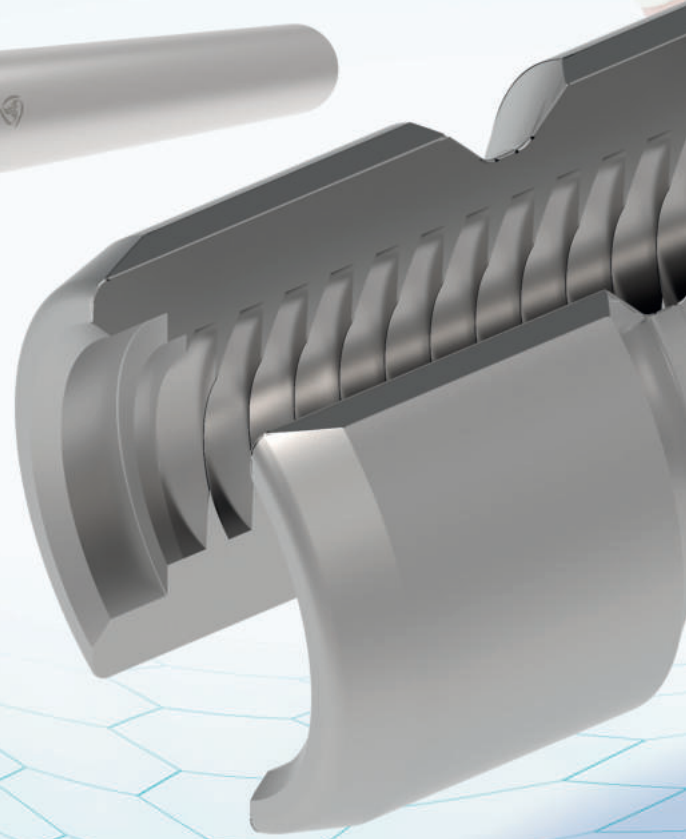
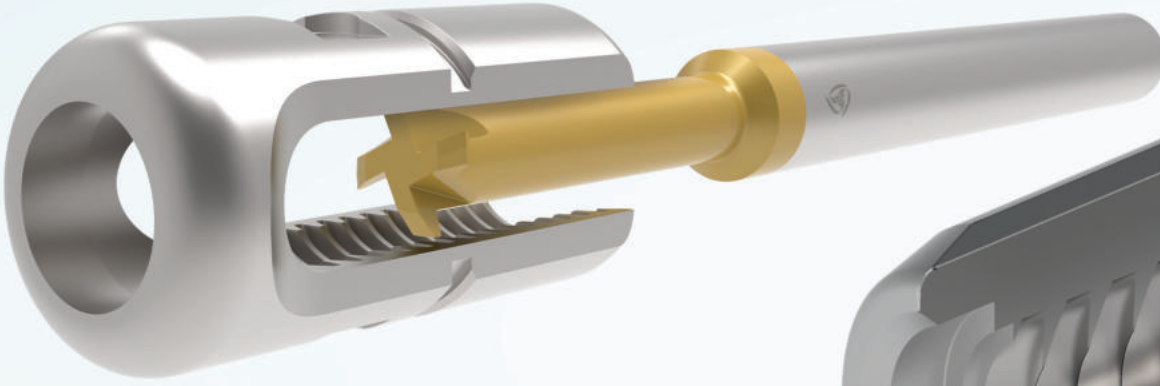




Medikal Cözümleri
MEDICAL SOLUTIONS
Medizinisch Lösungen

TULIP HEADS

DİŞ FREZESİ
THREAD MILLING
GEWINDEFRASEN



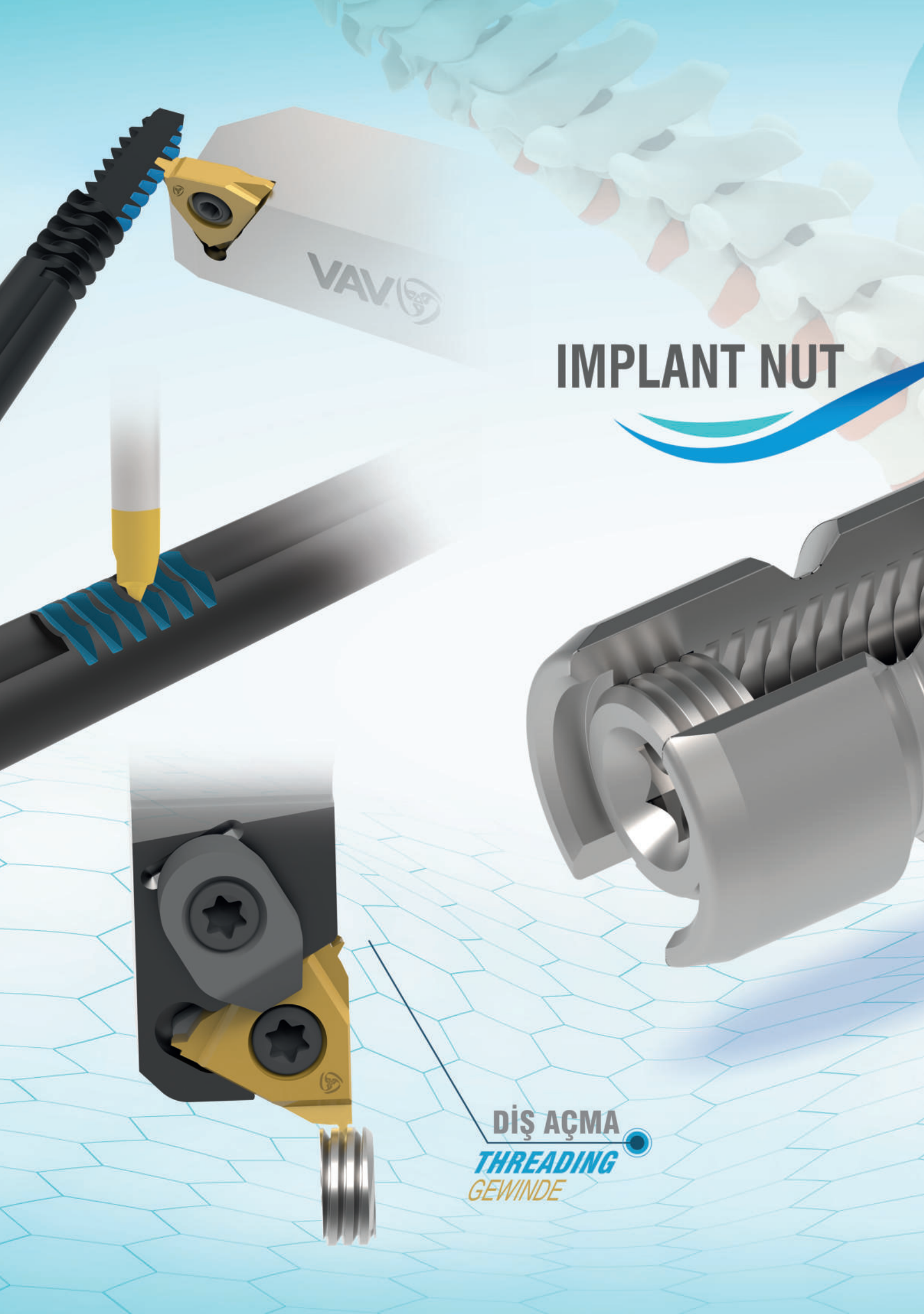
DİŞ AÇMA
THREADING
GEWINDE

DELİK İÇİ
TORNALAMA

BORING
BOHREN

ÖZEL FORMA AÇMA

SPECIAL FORMING
SONDER FORM BEARBEITUNG

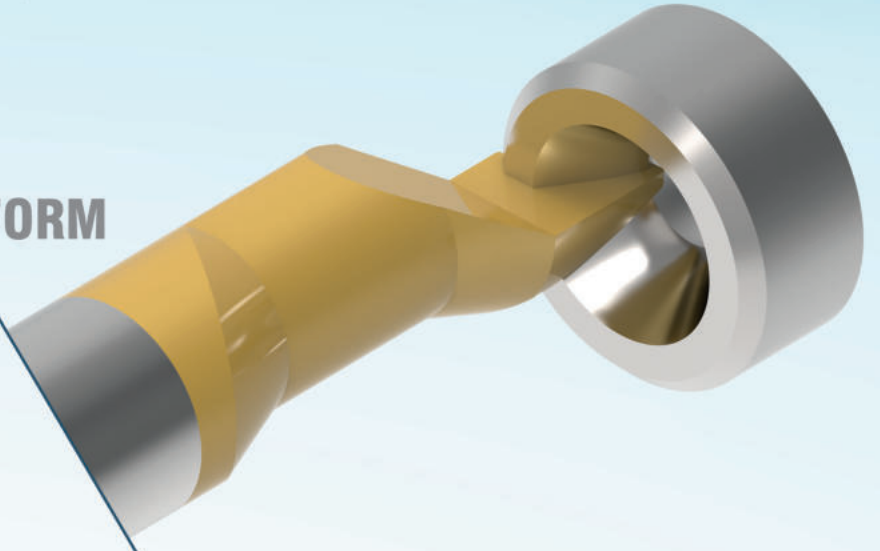


VAV

IMPLANT NUT

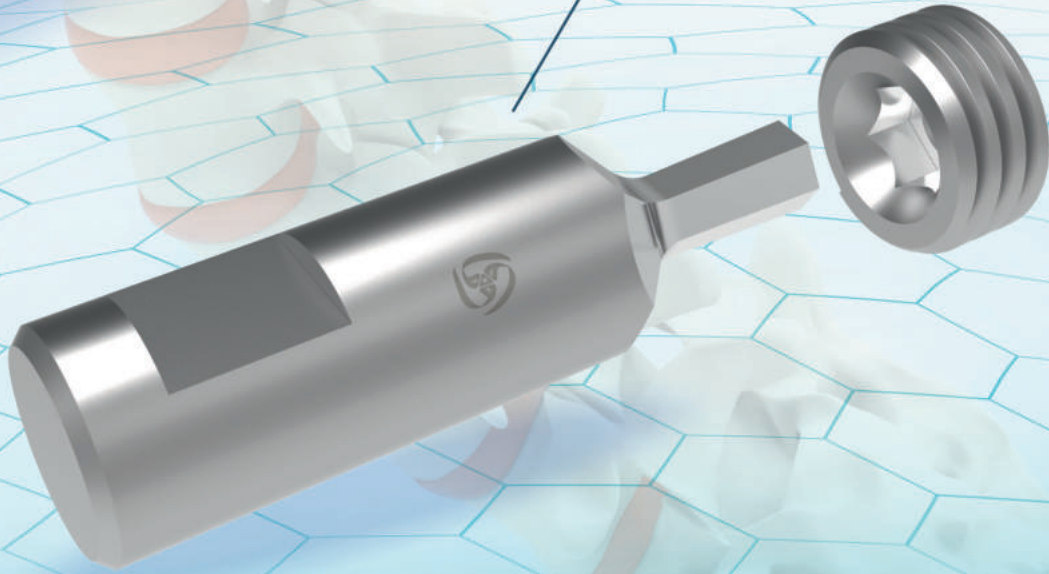
DİŞ AÇMA
THREADING
GEWINDE

ALIN ÖZEL FORM
SPECIAL
FACE FORMING
ALIN SONDERFORM



ALYAN PUNCH

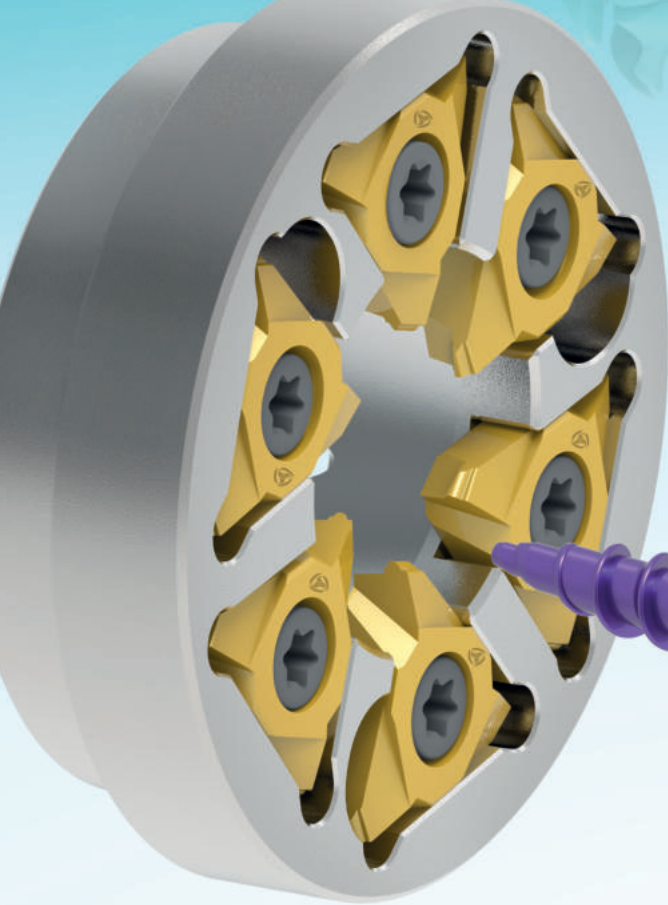
ALLEN PUNCH
WINKELSCHRAUBENDEHER
WERKZEUGE



WHIRLING

WHIRLING

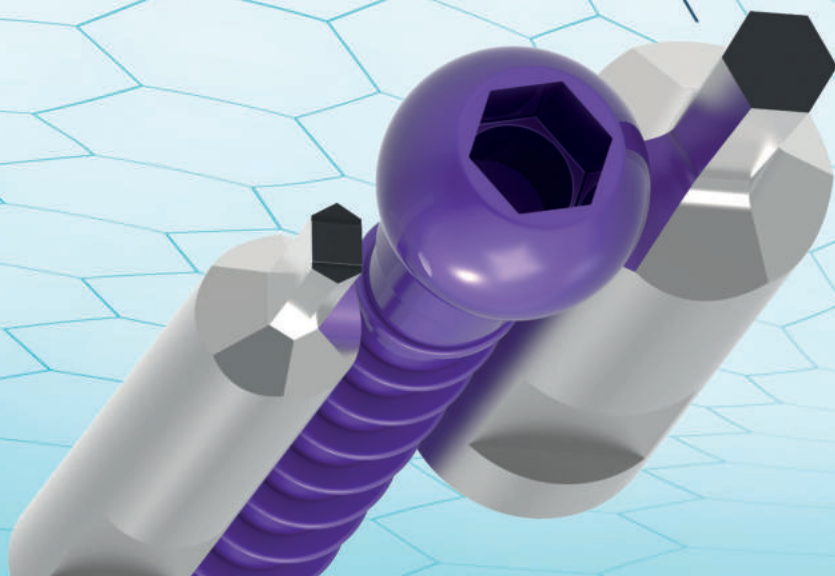
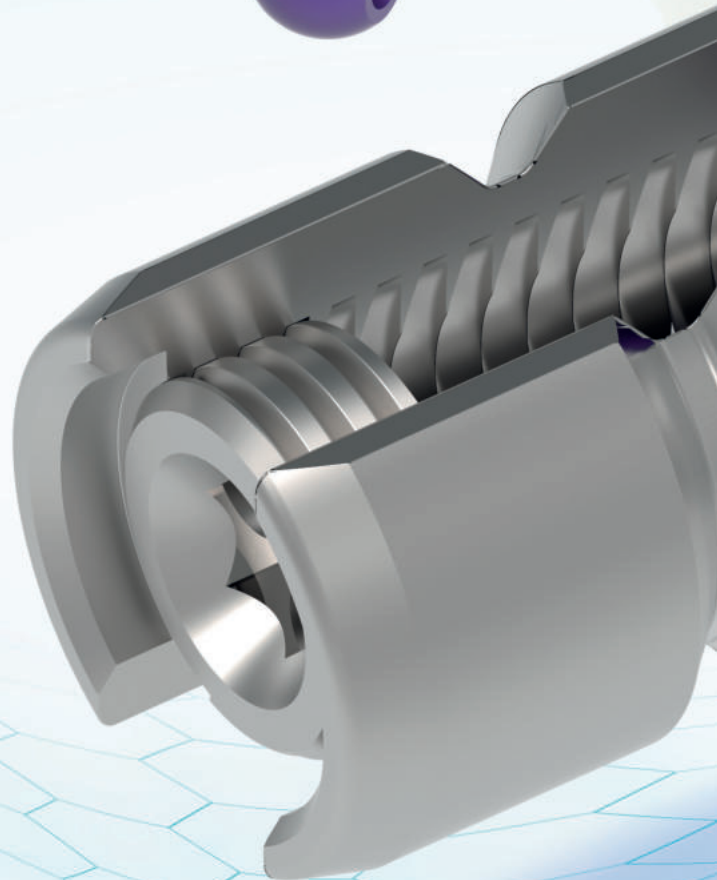
WENDESCHNEIDPLATTEN



ALYAN / PUNCH - KAZIMA

ALLEN / PUNCH - BROACH

*WINKELSCHRAUBENDEHER
WERKZEUGE*



IMPLANT SCREW

TORX / PUNCH - KAZIMA

TORX / PUNCH - BROACH
WINKELSCHRAUBENDREHER - RING

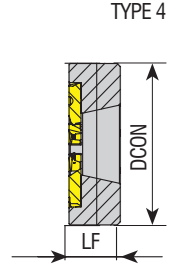
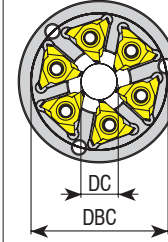
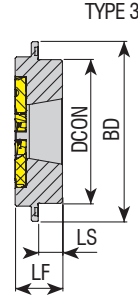
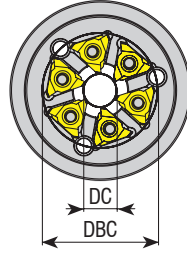
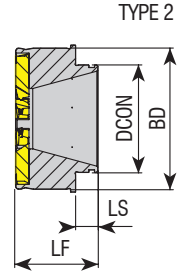
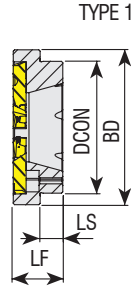
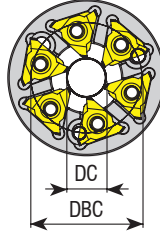
WHIRLING

WHIRLING UÇLARI ve TAKIMLARI

WHIRLING INSERTS and TOOLHOLDERS

*WENDESCHNEIDPLATTEN UND WERKZEUGHALTER ZUM
GEWINDEWIRBELN*





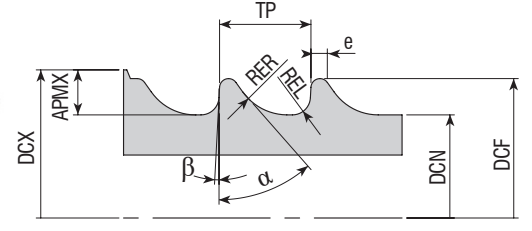
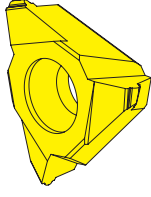
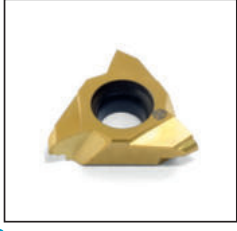
Makine Machine Machine	Tahrikli WHIRLING Ünitesi Aggregate WHIRLING Unit Wirbelspindel	WHIRLING Ring Kodu WHIRLING Ring Code Wirbelring	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)								Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
				ZEFP	DC	DCON	DBC	BD	LS	LF	TYPE		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
STAR	5914 72 00/68172	VTW-301-T09-D1240-Z06	●	6	12	40	33	47	7	15	1			
CITIZEN	BTW1000	VTW-302-T09-D1233-Z06	○	6	12	33	40	47	4	18.5	-			
	GSW101	VTW-303-T09-D0620-Z06	○	6	6	20	26	35	3.2	15	1			
	MWS101/KSW101													
	LSW101/BSW215/ LSW215315	VTW-304-T09-D1240-Z06	○	6	12	40	32.5	46	2.5	15.5	1			
	LSW424	VTW-305-T09-D1245-Z06	○	6	12	45	30	46	9.5	18	1			
TORNOS	306101/307087	VTW-306-T09-D1240-Z06	●	6	12	40	31	57	3.5	15	-			
	417617	VTW-307-T09-D1250-Z06	○	6	12	50	40	67	3.5	15.4	-			
WTO	TN762004	VTW-308-T09-D1142-Z06	●	6	11	31.97	-	42	6.7	24.7	2			
	TN762006	VTW-309-T09-D2054-Z08	○	8	20	56.5	-	54	1.5	13.8	2			
TSUGAMI	3234 Y342	VTW-310-T09-D1252-Z06	●	6	12	52	42	65	8.7	17	3			
	3268 Y452	VTW-311-T09-D1252-Z06	○	6	12	52	44	52	10	10	3			
	3268 Y271	VTW-312-T09-D1252-Z06	○	6	12	52	38	54	6	19	3			
	3214 Y342	VTW-313-T09-D1650-Z06	○	6	16	50	40	62	8.5	20	3			
	3234 Y342	VTW-314-T09-D2052-Z06	○	6	20	52	42	65	8.7	17	3			
	3281-Y451	VTW-316-T09-D1252-Z06	●	6	12	52	44	52	-	17	4			
new HANWHA	MADAULA	VTW-315-T09-D0937-Z06	○	6	9.4	-	-	54.9	20.8	38.3	2			
		VTW-315-T09-D1245-Z06	●	6	12	45	-	56	8.5	15	1			
new MADAULA	P035.00002	VTW-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 VTW-301-T09-D1240-Z06



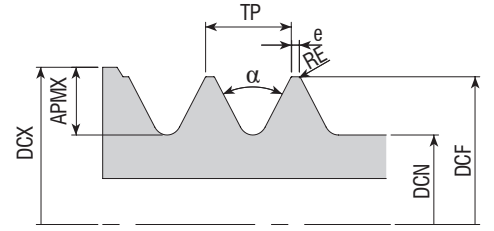
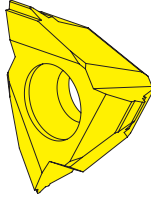
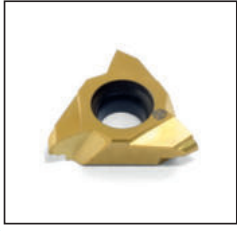
Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

Kalite
Grade
Sorte
VK15U
VK15U01

Standart
ISO5835

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

	TP	e	DCF	DCN	RER	REL	α	β	APMX	DCX
T09.HA150.D12	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	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	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	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	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	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	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	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	2.75	0.2	6.35 to 6.5	2.85 to 3.0	1.20	0.8	25°	5°	4	11



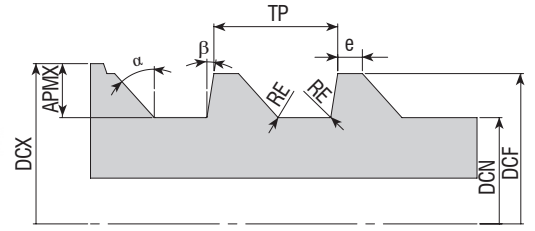
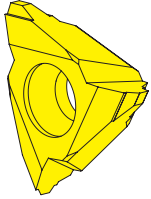
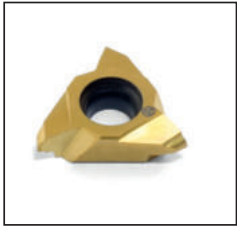
Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

Kalite
Grade
Sorte
VK15U
VK15U01

Standart
ISO9268

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

	TP	e	DCF	DCN	α	RE	APMX	DCX
T09.HC290.D12	1.06	0.1	2.79 to 2.90	2.03 to 2.18	60°	0.01	4	10.5
T09.HC350.D12	1.27	0.1	3.43 to 3.53	2.51 to 2.64	60°	0.01	4	11
T09.HC390.D12	1.27	0.1	3.78 to 3.91	2.77 to 2.92	60°	0.01	4	11.5
T09.HC420.D12	1.27	0.1	4.09 to 4.22	2.95 to 3.25	60°	0.01	4	12



Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

Kalite
Grade
Sorte
VK15U
VK15U01

Standart
ISO9268

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

	TP	e	DCF	DCN	RE	α	β	APMX	DCX
T09.HD400.D12	1.59	0.1	3.97 to 4.03	2.89 to 2.95	0.01	45°	10°	4	11.5
T09.HD450.D12	2.18	0.1	4.47 to 4.53	2.89 to 2.95	0.01	45°	10°	4	12

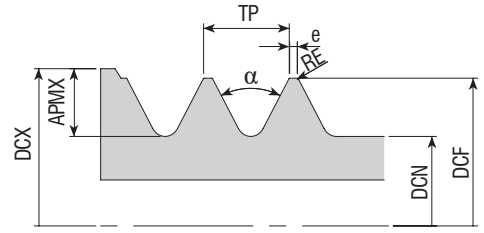
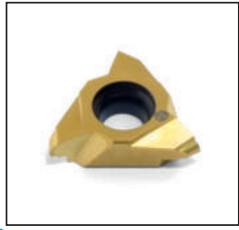
R: Sağ / Right / Rechts L: Sol / Left / Links

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

Sipariş Örneği/Ordering Example/Bestellbeispiel

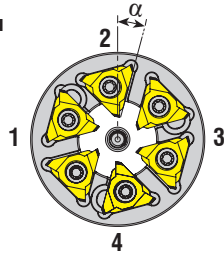
1 ad./pcs./stück T09.HA150.D12





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

Kesme başlangıç pozisyonu
Cutting Start Position
Startposition Schneidvorgang

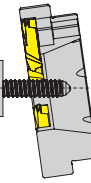


Y Eksen
Y Axis
Y Ocz

İş parçası dönüş yönü
Turning Direction of Workpiece
Drehrichtung Werkstück



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

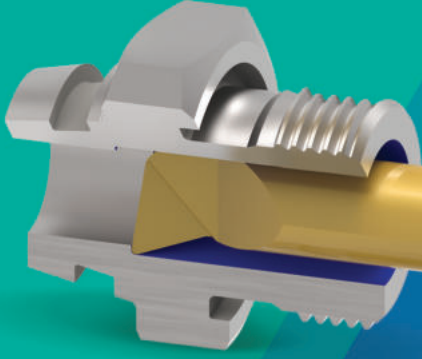


ÖZEL WHIRLING INSERT TALEP FORMU / SPECIAL WHIRLING INSERT REQUEST FORM / ANFRAGEFORMULAR FÜR SPEZIELLE WIRBELEINSÄTZE

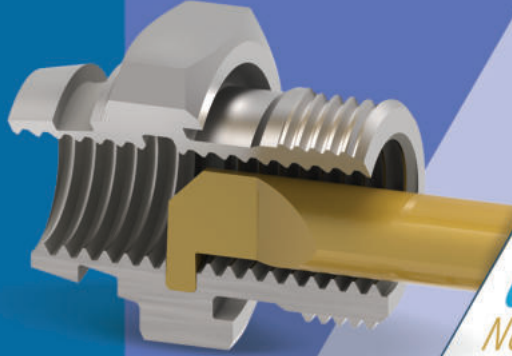
Makine Özellikleri / Machine Specifications / Angaben zur Maschine				Malzeme Özellikleri / Material Specifications / Material Besonderheiten	
Makine Üreticisi Machine Manufacturer Maschinenhersteller				Malzeme (DIN, AISI v.b.) Material (DIN, AISI etc.) Material DIN, AISI etc.	
Makine Modeli Machine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

MINI CUT

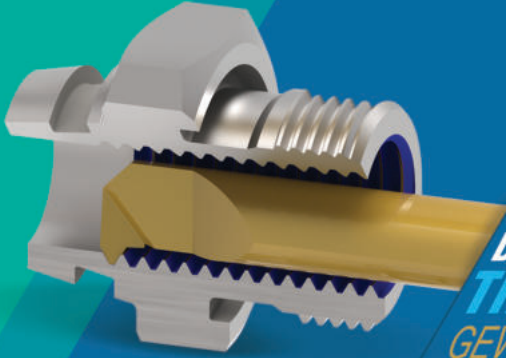
MINİ CUT TUTUCU ve TAKIMLARI
MINI CUT HOLDERS and TOOLS
MINI CUT HALTER und WERKZEUGE



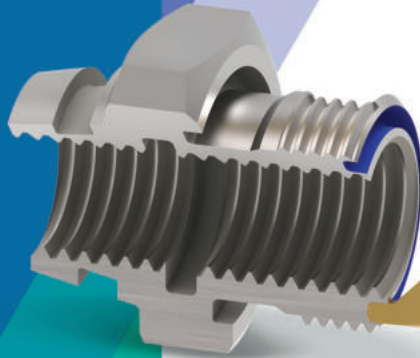
01
DELİK İÇİ TORNALAMA
BORING
AUSDREHEN



02
KANAL AÇMA
GROOVING
NUTENSTECHEN



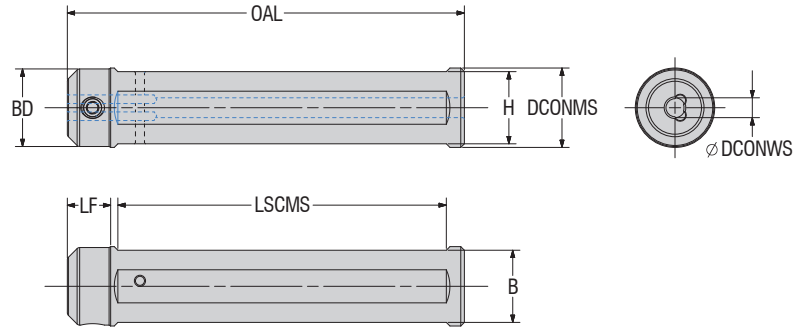
03
DIŞ AÇMA
THREADING
GEWINDEN



04
ALIN KANAL AÇMA
FACE GROOVING
AXIALSTECHEN

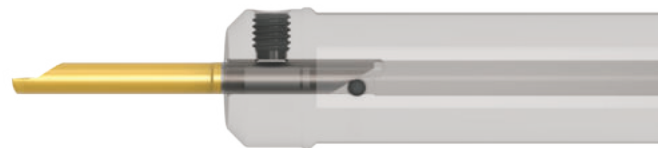


05
MINİ CUT TUTUCU
MINI CUT HOLDER
MINI CUT HALTER

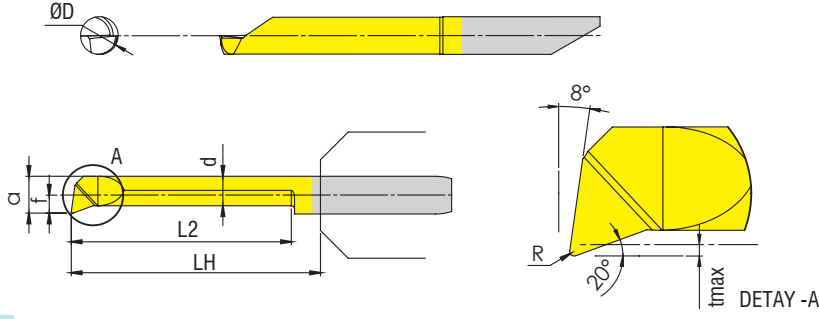


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)							
		DCONWS	OAL	DCONMS	BD	LF	LSCMS	B	H
VPCH-16-4-L110-H	○	4	110	16	-	-	92	14	14
VPCH-16-5-L110-H	○	5	110	16	-	-	92	14	14
VPCH-16-6-L110-H	○	6	110	16	21	13	91	14	14
VPCH-16-7-L110-H	○	7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

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



DELİK İÇİ MİNİ CUT TAKIMLAR
 MINI CUT BORING / MINI CUT AUSDREHEN



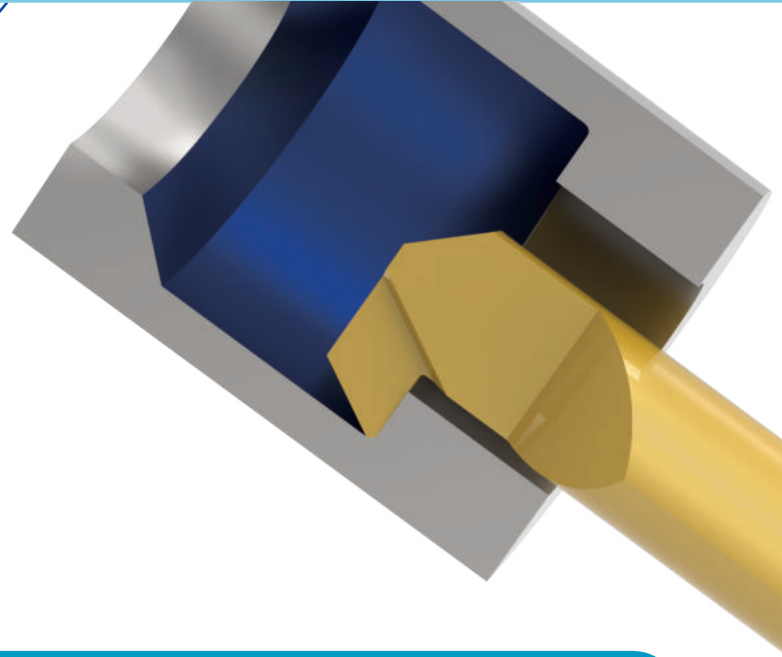
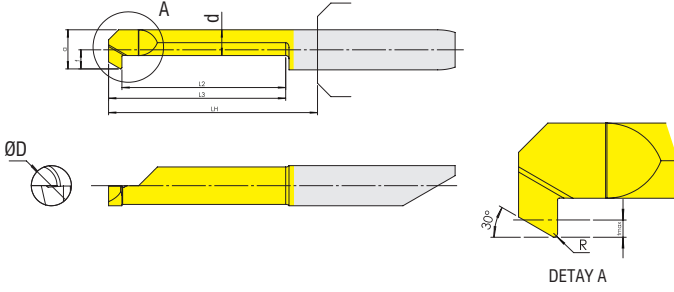
Takım Ölçüleri (mm)
 Dimension (mm)
 Abmessung (mm)

Ürün Kodu Product Code Artikelnummer	L2	Ødmin	R	a	d	f	LH	tmax	ØD
new VPB04.102.015.32	10.20	3.2	0.15	2.95	2.55	1.45	13	0.2	4
new VPB04.152.015.32	15.20	3.2	0.15	2.95	2.55	1.45	18	0.2	4
new VPB04.203.015.32	20.30	3.2	0.15	2.95	2.55	1.45	23	0.2	4
new VPB04.254.015.32	25.40	3.2	0.15	2.95	2.55	1.45	28	0.2	4
new VPB04.305.015.32	30.50	3.2	0.15	2.95	2.55	1.45	33	0.2	4
new VPB04.356.015.32	35.60	3.2	0.15	2.95	2.55	1.45	38	0.2	4
VPB04.102.015	10.2	4.2	0.15	3.95	3.45	1.95	13	0.3	4
VPB04.152.015	15.20	4.2	0.15	3.95	3.45	1.95	18	0.3	4
VPB04.203.015	20.30	4.2	0.15	3.95	3.45	1.95	23	0.3	4
VPB04.254.015	25.40	4.2	0.15	3.95	3.45	1.95	28	0.3	4
VPB04.305.015	30.50	4.2	0.15	3.95	3.45	1.95	33	0.3	4
VPB04.356.015	35.60	4.2	0.15	3.95	3.45	1.95	38	0.3	4
VPB04.406.020	40.60	4.2	0.15	3.95	3.45	1.95	43	0.3	4
VPB05.102.020	10.2	5.2	0.2	4.95	4.25	2.45	13	0.5	5
VPB05.152.020	15.20	5.2	0.2	4.95	4.25	2.45	18	0.5	5
VPB05.203.020	20.30	5.2	0.2	4.95	4.25	2.45	23	0.5	5
VPB05.254.020	25.40	5.2	0.2	4.95	4.25	2.45	28	0.5	5
VPB05.305.020	30.50	5.2	0.2	4.95	4.25	2.45	33	0.5	5
VPB05.356.020	35.60	5.2	0.2	4.95	4.25	2.45	38	0.5	5
VPB05.406.020	40.60	5.2	0.2	4.95	4.25	2.45	43	0.5	5
VPB06.102.020	10.2	6.2	0.2	5.95	5.25	2.95	13	0.5	6
VPB06.152.020	15.20	6.2	0.2	5.95	5.25	2.95	18	0.5	6
VPB06.203.020	20.30	6.2	0.2	5.95	5.25	2.95	23	0.5	6
VPB06.254.020	25.40	6.2	0.2	5.95	5.25	2.95	28	0.5	6
VPB06.305.020	30.50	6.2	0.2	5.95	5.25	2.95	33	0.5	6
VPB06.356.020	35.60	6.2	0.2	5.95	5.25	2.95	38	0.5	6
VPB06.406.020	40.60	6.2	0.2	5.95	5.25	2.95	43	0.5	6
VPB06.508.020	50.80	6.2	0.2	5.95	5.25	2.95	53	0.5	6
VPB07.254.020	25.40	7.2	0.2	6.95	6.25	3.45	28	0.5	7
VPB07.305.020	30.50	7.2	0.2	6.95	6.25	3.45	33	0.5	7
VPB07.356.020	35.60	7.2	0.2	6.95	6.25	3.45	38	0.5	7
VPB07.406.020	40.60	7.2	0.2	6.95	6.25	3.45	43	0.5	7
VPB07.508.020	50.80	7.2	0.2	6.95	6.25	3.45	53	0.5	7
VPB07.608.020	60.80	7.2	0.2	6.95	6.25	3.45	63	0.5	7



TERS TORNALAMA MİNİ CUT TAKIMLAR

MINI CUT BACK BORING /
MINI CUT ZURÜCK BOHRUNGE



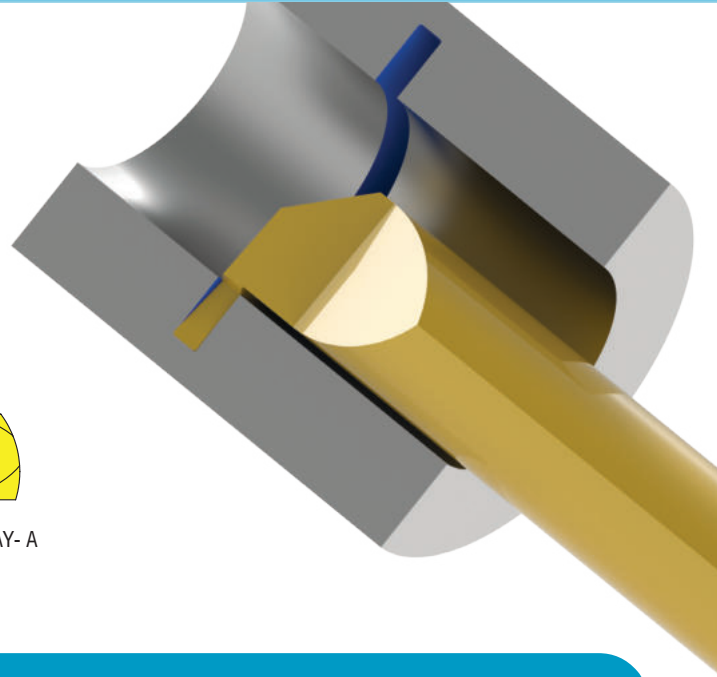
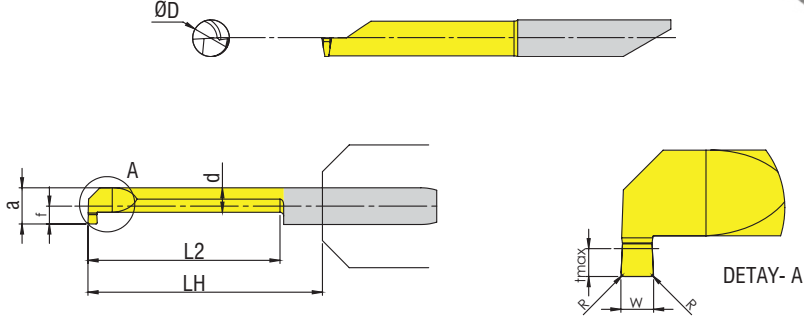
Ürün Kodu
Product Code
Artikelnummer

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

	L2	L3	Ødmin	R	a	d	f	LH	tmax	ØD
VPBB04.152.010.32	13.2	15.20	3.2	0.1	2.95	2.3	1.45	18	0.5	4
VPBB04.203.010.32	18.3	20.30	3.2	0.1	2.95	2.3	1.45	23	0.5	4
VPBB04.152.015.42	13.2	15.20	4.2	0.15	3.95	2.5	1.95	18	0.8	4
VPBB04.254.015.42	23.4	25.40	4.2	0.15	3.95	2.5	1.95	28	0.8	4
VPBB05.203.020.52	18.3	20.30	5.2	0.2	4.95	3.8	2.45	23	1	5
VPBB05.305.020.52	28.5	30.50	5.2	0.2	4.95	3.8	2.45	33	1	5
VPBB06.203.020.62	18.3	20.30	6.2	0.2	5.95	3.8	2.95	23	1.8	6
VPBB06.305.020.62	28.5	30.50	6.2	0.2	5.95	3.8	2.95	33	1.8	6
VPBB07.203.020.72	17.3	20.30	7.2	0.2	6.95	4.25	3.45	23	2.5	7
VPBB07.305.020.72	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 VPBB04.152.010.32

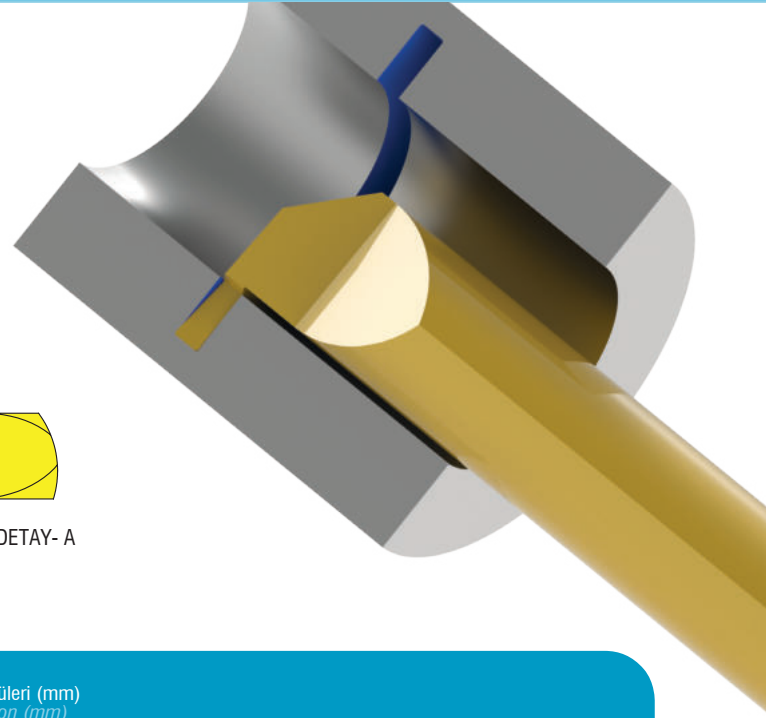
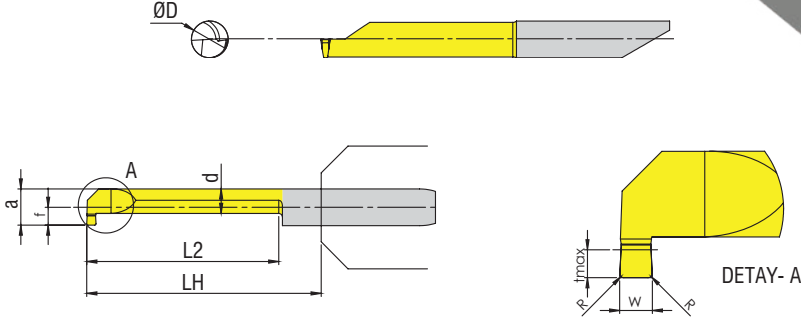
KANAL AÇMA MİNİ CUT TAKIMLAR
 MINI CUT GROOVING / MİNİ CUT NUTENSTECHEN



Ürün Kodu Product Code Artikelnummer	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
VPG04.080.102	0.8	10.2	4.2	0.15	3.95	2.95	1.95	13	0.8	4
VPG04.080.152	0.8	15.2	4.2	0.15	3.95	2.95	1.95	18	0.8	4
VPG04.080.203	0.8	20.3	4.2	0.15	3.95	2.95	1.95	23	0.8	4
VPG04.080.254	0.8	25.4	4.2	0.15	3.95	2.95	1.95	28	0.8	4
VPG04.100.102	1.0	10.2	4.2	0.2	3.95	2.95	1.95	13	0.8	4
VPG04.100.152	1.0	15.2	4.2	0.2	3.95	2.95	1.95	18	0.8	4
VPG04.100.203	1.0	20.3	4.2	0.2	3.95	2.95	1.95	23	0.8	4
VPG05.079.102	0.79	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	5
VPG05.079.152	0.79	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	5
VPG05.079.203	0.79	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	5
VPG05.079.254	0.79	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	5
VPG05.079.305	0.79	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	5
VPG05.079.356	0.79	35.6	5.2	0.2	4.95	3.75	2.45	38	1.0	5
VPG05.100.102	1.0	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	5
VPG05.100.152	1.0	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	5
VPG05.100.203	1.0	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	5
VPG05.100.254	1.0	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	5
VPG05.100.305	1.0	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	5
VPG05.100.356	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 VPG04.080.102

KANAL AÇMA MİNİ CUT TAKIMLAR MINI CUT GROOVING / MINI CUT NUTENSTECHEN



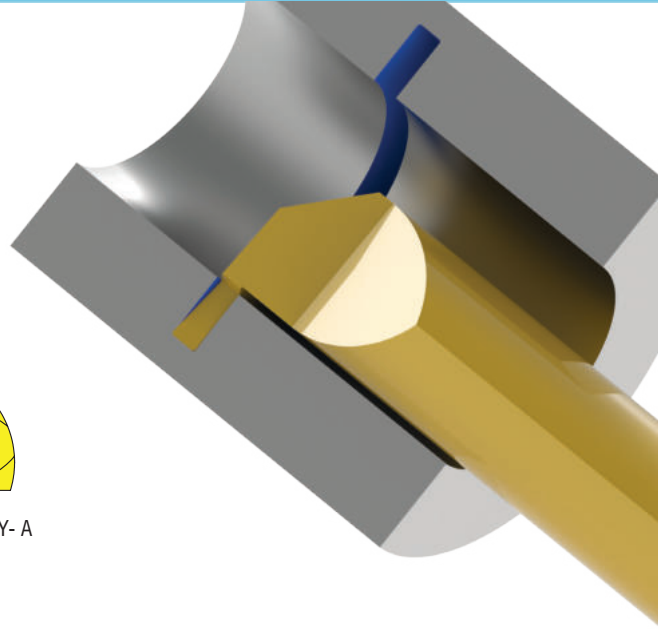
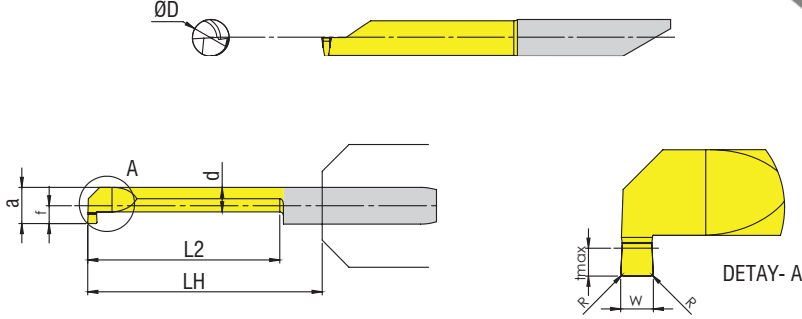
Ürün Kodu
Product Code
Artikelnummer

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

	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
VPG05.117.102	1.17	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	5
VPG05.117.152	1.17	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	5
VPG05.117.203	1.17	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	5
VPG05.117.254	1.17	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	5
VPG05.117.305	1.17	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	5
VPG05.117.356	1.17	35.6	5.2	0.2	4.95	3.75	2.45	38	1.0	5
VPG05.150.102	1.5	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	5
VPG05.150.152	1.5	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	5
VPG05.150.203	1.5	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	5
VPG05.150.254	1.5	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	5
VPG05.150.305	1.5	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	5
VPG05.150.356	1.5	35.6	5.2	0.2	4.95	3.75	2.45	38	1.0	5
VPG05.157.102	1.57	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	5
VPG05.157.152	1.57	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	5
VPG05.157.203	1.57	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	5
VPG05.157.254	1.57	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	5
VPG05.157.305	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 VPG05.117.102

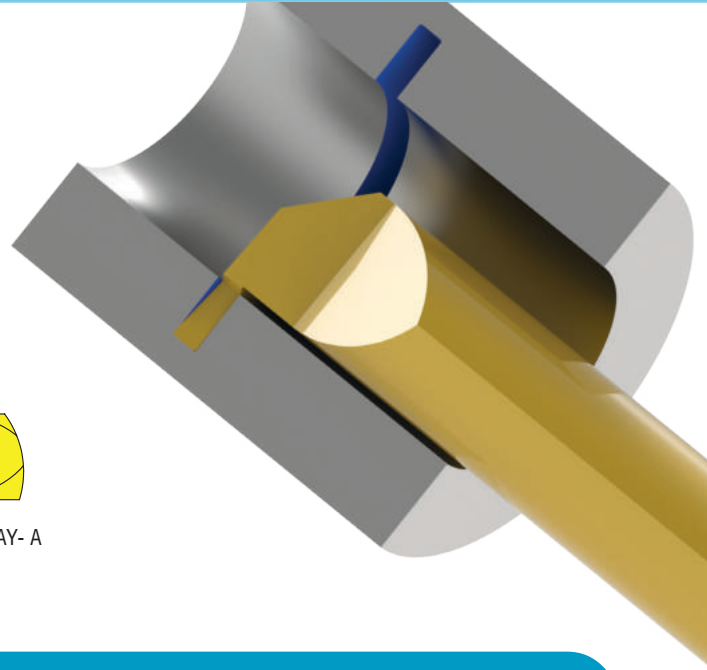
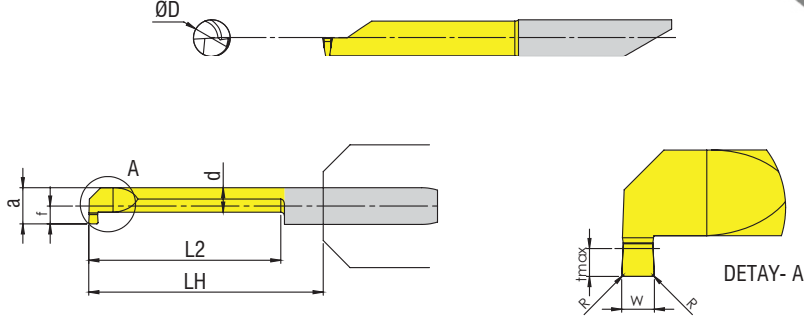
KANAL AÇMA MİNİ CUT TAKIMLAR
 MINI CUT GROOVING / MİNİ CUT NUTENSTECHEN



Ürün Kodu Product Code Artikelnummer	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
VPG05.198.102	1.98	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	5
VPG05.198.152	1.98	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	5
VPG05.198.203	1.98	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	5
VPG05.198.254	1.98	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	5
VPG05.198.305	1.98	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	5
VPG05.200.102	2.0	10.2	5.2	0.2	4.95	3.75	2.45	13	1.0	5
VPG05.200.152	2.0	15.2	5.2	0.2	4.95	3.75	2.45	18	1.0	5
VPG05.200.203	2.0	20.3	5.2	0.2	4.95	3.75	2.45	23	1.0	5
VPG05.200.254	2.0	25.4	5.2	0.2	4.95	3.75	2.45	28	1.0	5
VPG05.200.305	2.0	30.5	5.2	0.2	4.95	3.75	2.45	33	1.0	5
VPG06.079.102	0.79	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	6
VPG06.079.152	0.79	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	6
VPG06.079.203	0.79	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	6
VPG06.079.254	0.79	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	6
VPG06.079.305	0.79	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	6
VPG06.079.356	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 VPG05.198.102

KANAL AÇMA MİNİ CUT TAKIMLAR
MINI CUT GROOVING / MINI CUT NUTENSTECHEN



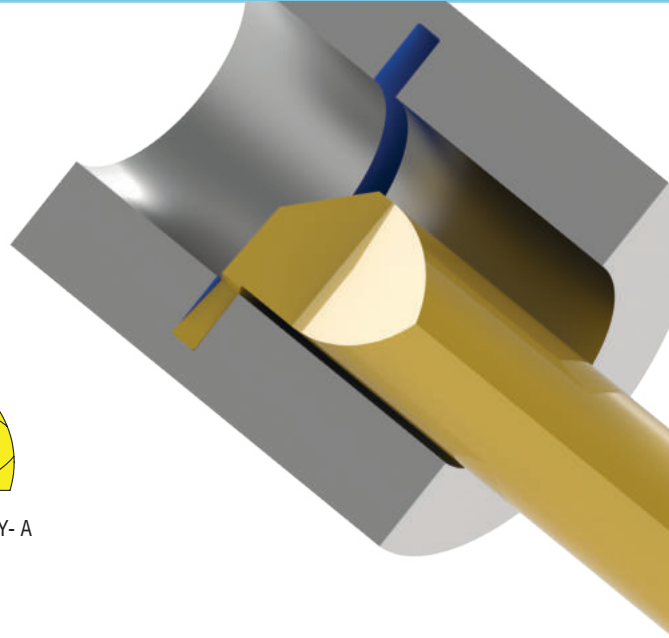
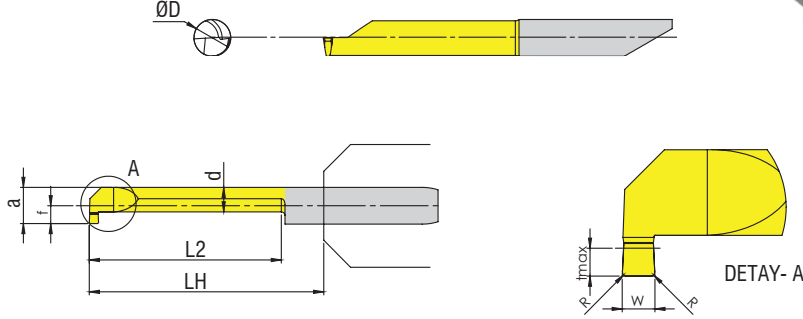
Ürün Kodu
Product Code
Artikelnummer

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

	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
VPG06.100.102	1.0	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	6
VPG06.100.152	1.0	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	6
VPG06.100.203	1.0	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	6
VPG06.100.254	1.0	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	6
VPG06.100.305	1.0	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	6
VPG06.100.356	1.0	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	6
VPG06.100.406	1.0	40.6	6.2	0.2	5.95	3.95	2.95	43	1.8	6
VPG06.117.102	1.17	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	6
VPG06.117.152	1.17	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	6
VPG06.117.203	1.17	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	6
VPG06.117.254	1.17	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	6
VPG06.117.305	1.17	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	6
VPG06.117.356	1.17	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	6
VPG06.117.406	1.17	40.6	6.2	0.2	5.95	3.95	2.95	43	1.8	6
VPG06.150.102	1.5	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	6
VPG06.150.152	1.5	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	6
VPG06.150.203	1.5	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	6
VPG06.150.254	1.5	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	6
VPG06.150.305	1.5	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	6
VPG06.150.356	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 VPG06.100.102

KANAL AÇMA MİNİ CUT TAKIMLAR
 MINI CUT GROOVING / MİNİ CUT NUTENSTECHEN



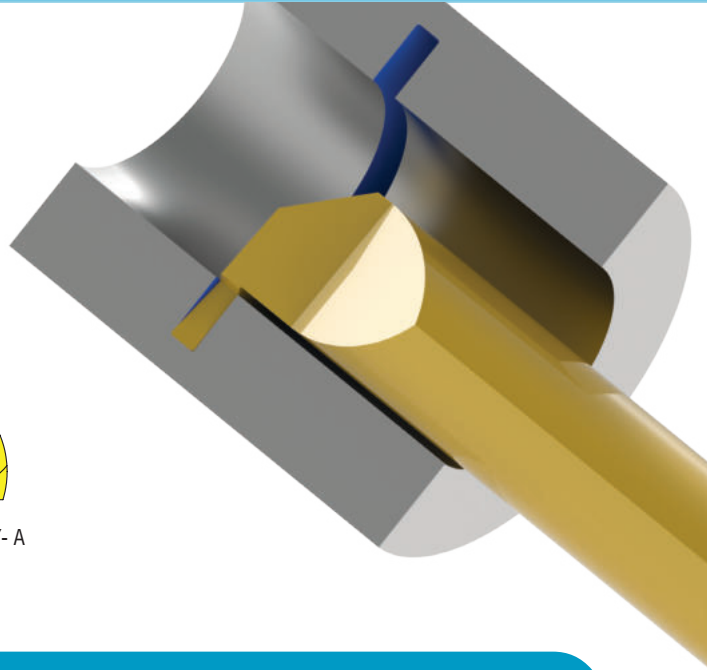
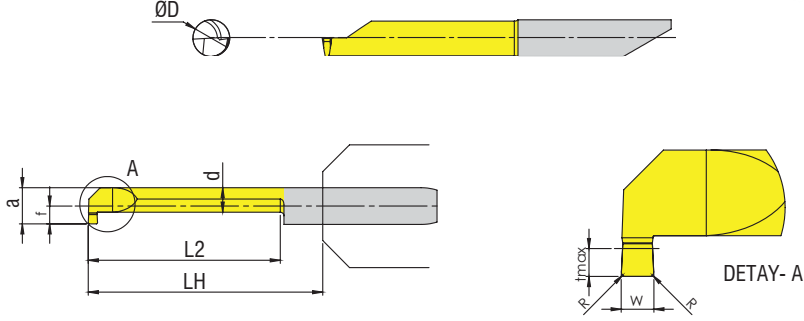
Ürün Kodu
 Product Code
 Artikelnummer

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

	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
VPG06.157.102	1.57	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	6
VPG06.157.152	1.57	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	6
VPG06.157.203	1.57	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	6
VPG06.157.254	1.57	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	6
VPG06.157.305	1.57	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	6
VPG06.157.356	1.57	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	6
VPG06.157.406	1.57	40.6	6.2	0.2	5.95	3.95	2.95	43	1.8	6
VPG06.198.102	1.98	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	6
VPG06.198.152	1.98	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	6
VPG06.198.203	1.98	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	6
VPG06.198.254	1.98	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	6
VPG06.198.305	1.98	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	6
VPG06.198.356	1.98	35.6	6.2	0.2	5.95	3.95	2.95	38	1.8	6
VPG06.198.406	1.98	40.6	6.2	0.2	5.95	3.95	2.95	43	1.8	6
VPG06.200.102	2.0	10.2	6.2	0.2	5.95	3.95	2.95	13	1.8	6
VPG06.200.152	2.0	15.2	6.2	0.2	5.95	3.95	2.95	18	1.8	6
VPG06.200.203	2.0	20.3	6.2	0.2	5.95	3.95	2.95	23	1.8	6
VPG06.200.254	2.0	25.4	6.2	0.2	5.95	3.95	2.95	28	1.8	6
VPG06.200.305	2.0	30.5	6.2	0.2	5.95	3.95	2.95	33	1.8	6
VPG06.200.356	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 VPG06.157.102

KANAL AÇMA MİNİ CUT TAKIMLAR MINI CUT GROOVING / MINI CUT NUTENSTECHEN



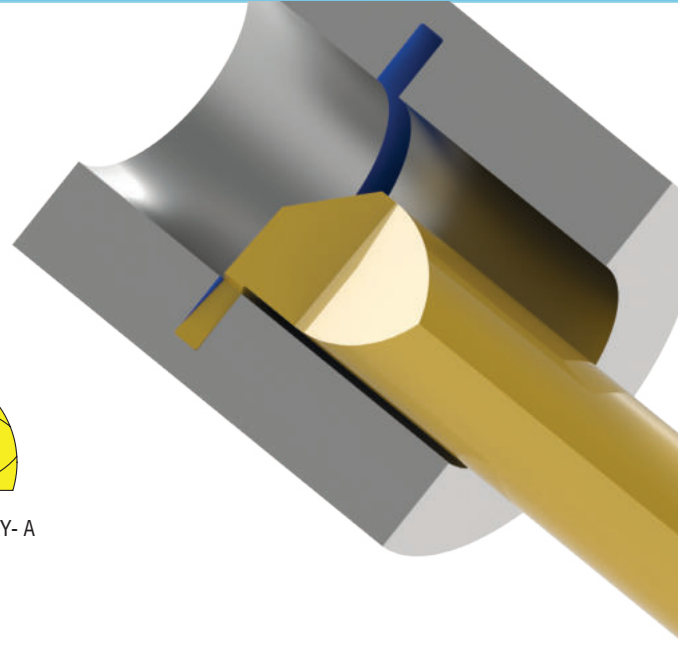
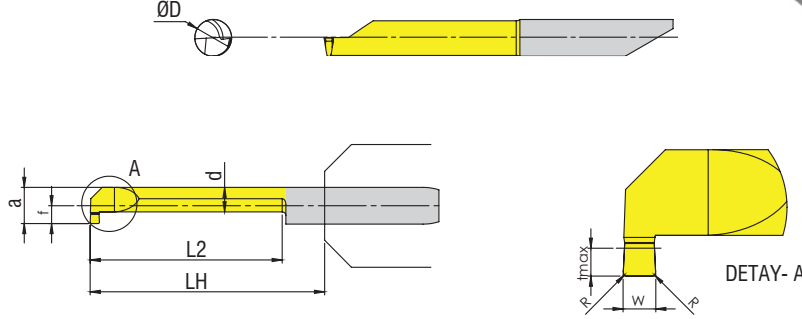
Ürün Kodu
Product Code
Artikelnummer

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

	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
VPG07.079.102	0.79	10.2	7.2	0.2	6.95	4.25	3.45	13	2.5	7
VPG07.079.152	0.79	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	7
VPG07.079.203	0.79	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	7
VPG07.079.254	0.79	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	7
VPG07.079.305	0.79	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	7
VPG07.079.356	0.79	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	7
VPG07.079.406	0.79	40.6	7.2	0.2	6.95	4.25	3.45	43	2.5	7
VPG07.100.102	1.0	10.2	7.2	0.2	6.95	4.25	3.45	13	2.5	7
VPG07.100.152	1.0	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	7
VPG07.100.203	1.0	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	7
VPG07.100.254	1.0	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	7
VPG07.100.305	1.0	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	7
VPG07.100.356	1.0	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	7
VPG07.100.406	1.0	40.6	7.2	0.2	6.95	4.25	3.45	43	2.5	7
VPG07.117.102	1.17	10.2	7.2	0.2	6.95	4.25	3.45	13	2.5	7
VPG07.117.152	1.17	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	7
VPG07.117.203	1.17	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	7
VPG07.117.254	1.17	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	7
VPG07.117.305	1.17	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	7
VPG07.117.356	1.17	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	7
VPG07.117.406	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 VPG07.079.102

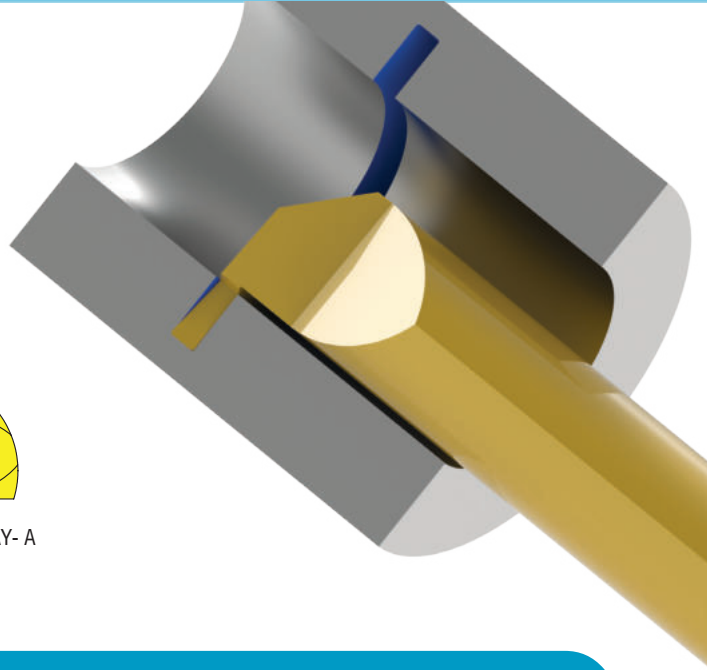
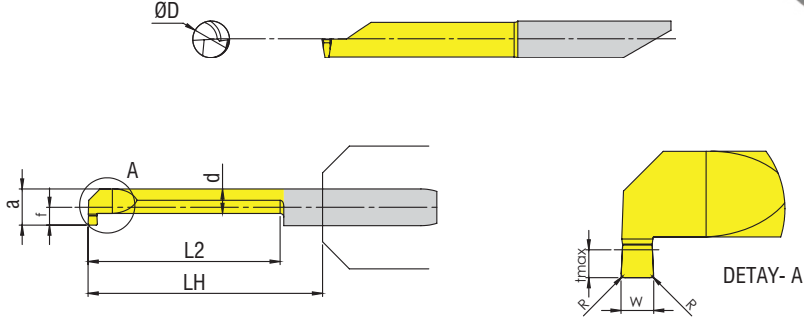
KANAL AÇMA MİNİ CUT TAKIMLAR
 MINI CUT GROOVING / MINI CUT NUTENSTECHEN



Ürün Kodu Product Code Artikelnummer	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)									
	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
VPG07.150.102	1.5	10,2	7.2	0.2	6.95	4.25	3.45	13	2.5	7
VPG07.150.152	1.5	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	7
VPG07.150.203	1.5	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	7
VPG07.150.254	1.5	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	7
VPG07.150.305	1.5	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	7
VPG07.150.356	1.5	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	7
VPG07.150.406	1.5	40,6	7.2	0.2	6.95	4.25	3.45	43	2.5	7
VPG07.157.102	1.57	10,2	7.2	0.2	6.95	4.25	3.45	13	2.5	7
VPG07.157.152	1.57	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	7
VPG07.157.203	1.57	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	7
VPG07.157.254	1.57	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	7
VPG07.157.305	1.57	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	7
VPG07.157.356	1.57	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	7
VPG07.157.406	1.57	40,6	7.2	0.2	6.95	4.25	3.45	43	2.5	7
VPG07.198.102	1.98	10,2	7.2	0.2	6.95	4.25	3.45	13	2.5	7
VPG07.198.152	1.98	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	7
VPG07.198.203	1.98	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	7
VPG07.198.254	1.98	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	7
VPG07.198.305	1.98	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	7
VPG07.198.356	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 VPG07.150.102

KANAL AÇMA MINI CUT TAKIMLAR MINI CUT GROOVING / MINI CUT NUTENSTECHEN



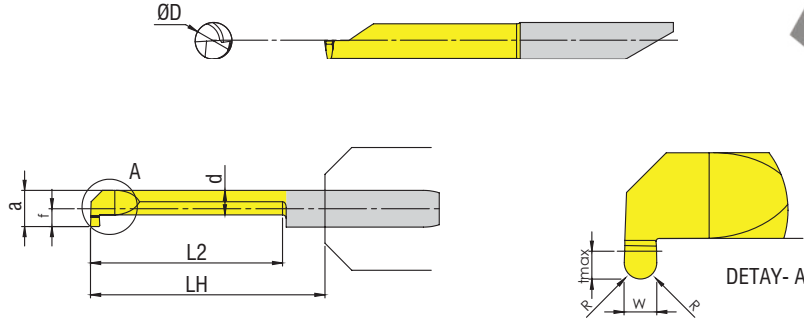
Ürün Kodu
Product Code
Artikelnummer

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

	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
VPG07.200.102	2.0	10.2	7.2	0.2	6.95	4.25	3.45	13	2.5	7
VPG07.200.152	2.0	15.2	7.2	0.2	6.95	4.25	3.45	18	2.5	7
VPG07.200.203	2.0	20.3	7.2	0.2	6.95	4.25	3.45	23	2.5	7
VPG07.200.254	2.0	25.4	7.2	0.2	6.95	4.25	3.45	28	2.5	7
VPG07.200.305	2.0	30.5	7.2	0.2	6.95	4.25	3.45	33	2.5	7
VPG07.200.356	2.0	35.6	7.2	0.2	6.95	4.25	3.45	38	2.5	7
VPG10.100.305	1.0	30.5	10.5	0.2	9.95	5.45	4.95	33.0	4.0	10
VPG10.100.508	1.0	50.8	10.5	0.2	9.95	5.45	4.95	53.0	4.0	10
VPG10.200.305	2.0	30.5	10.5	0.2	9.95	5.45	4.95	33.0	4.0	10
VPG10.200.508	2.0	50.8	10.5	0.2	9.95	5.45	4.95	53.0	4.0	10
VPG10.300.305	3.0	30.5	10.5	0.2	9.95	5.45	4.95	33.0	4.0	10
VPG10.300.508	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 VPG07.200.102

KANAL AÇMA MİNİ CUT TAKIMLAR
 MINI CUT GROOVING / MİNİ CUT NUTENSTECHEN



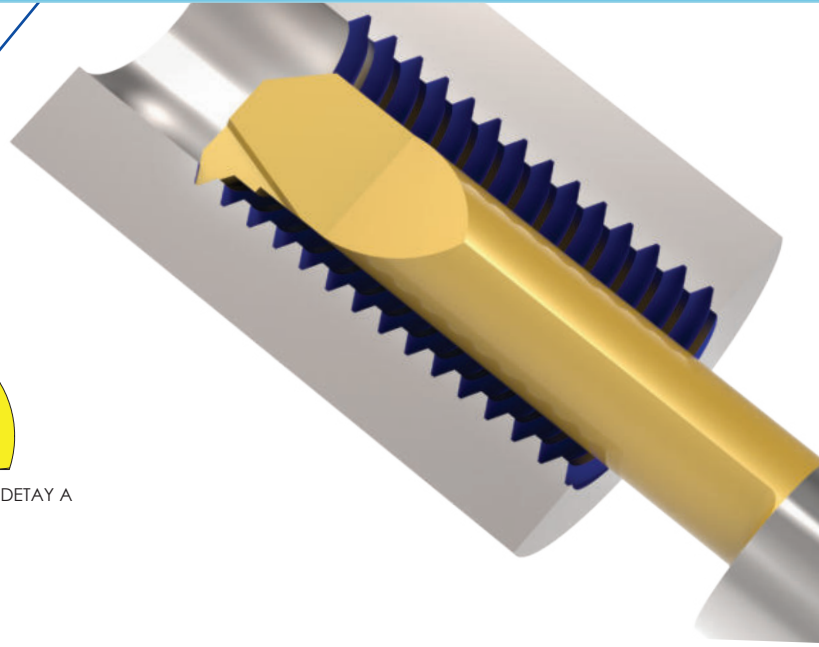
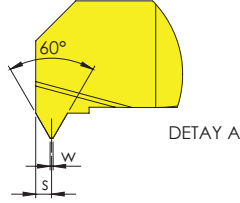
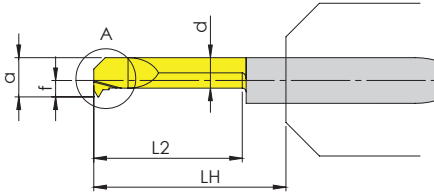
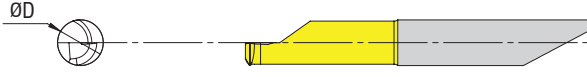
Ürün Kodu
 Product Code
 Artikelnummer

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

	W	L2	Ødmin	R	a	d	f	LH	tmax	ØD
VPG04.100.152.R050	1.0	15.2	4.2	0.5	3.95	2.95	1.95	18.0	0.8	4
VPG04.117.152.R0585	1.17	15.2	4.2	0.585	3.95	2.95	1.95	18.0	0.8	4
VPG05.100.203.R050	1.0	20.3	5.2	0.5	4.95	3.75	2.45	23.0	1.0	5
VPG05.117.203.R0585	1.17	20.3	5.2	0.585	4.95	3.75	2.45	23.0	1.0	5
VPG05.150.203.R075	1.5	20.3	5.2	0.75	4.95	3.75	2.45	23.0	1.0	5
VPG05.1574.203.R0787	1.574	20.3	5.2	0.787	4.95	3.75	2.45	23.0	1.0	5
VPG05.1626.203.R0813	1.626	20.3	5.2	0.813	4.95	3.75	2.45	23.0	1.0	5
VPG05.198.203.R099	1.98	20.3	5.2	0.99	4.95	3.75	2.45	23.0	1.0	5
VPG05.200.203.R100	2.0	20.3	5.2	1.0	4.95	3.75	2.45	23.0	1.0	5
VPG06.100.254.R050	1.0	25.4	6.2	0.5	5.95	3.95	2.95	28.0	1.8	6
VPG06.117.254.R0585	1.17	25.4	6.2	0.585	5.95	3.95	2.95	28.0	1.8	6
VPG06.150.254.R075	1.5	25.4	6.2	0.75	5.95	3.95	2.95	28.0	1.8	6
VPG06.1574.254.R0787	1.574	25.4	6.2	0.787	5.95	3.95	2.95	28.0	1.8	6
VPG06.1626.254.R0813	1.626	25.4	6.2	0.813	5.95	3.95	2.95	28.0	1.8	6
VPG06.198.254.R099	1.98	25.4	6.2	0.99	5.95	3.95	2.95	28.0	1.8	6
VPG06.200.203.R100	2.0	20.3	6.2	1.0	5.95	3.95	2.95	23.0	1.8	6
VPG06.200.254.R100	2.0	25.4	6.2	1.0	5.95	3.95	2.95	28.0	1.8	6
VPG07.100.305.R050	1.0	30.5	7.2	0.5	6.95	4.25	3.45	33.0	2.5	7
VPG07.117.305.R0585	1.17	30.5	7.2	0.585	6.95	4.25	3.45	33.0	2.5	7
VPG07.150.305.R075	1.5	30.5	7.2	0.75	6.95	4.25	3.45	33.0	2.5	7
VPG07.1574.305.R0787	1.574	30.5	7.2	0.787	6.95	4.25	3.45	33.0	2.5	7
VPG07.1626.305.R0813	1.626	30.5	7.2	0.813	6.95	4.25	3.45	33.0	2.5	7
VPG07.198.305.R099	1.98	30.5	7.2	0.99	6.95	4.25	3.45	33.0	2.5	7
VPG07.200.305.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 VPG04.100.152.R050

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



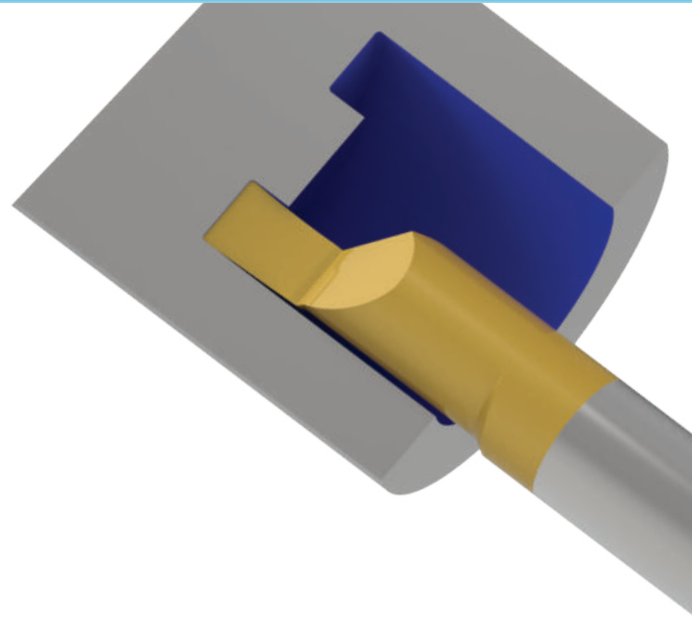
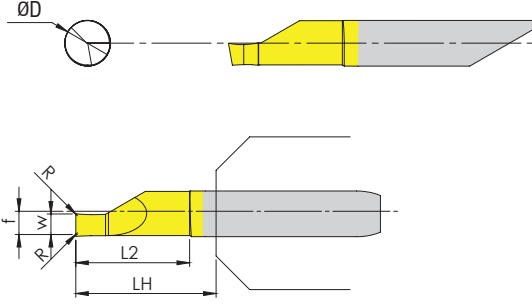
Ürün Kodu
Product Code
Artikelnummer

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

	PITCH		L2	ØDmin	a	d	f	LH	S	tmax	w	ØD
	min	max										
VPT04.152.080	0.8	1.0	15.2	4.2	3.65	2.7	1.95	18.0	0.45	0.46	0.1	4
VPT04.152.050	0.5	0.7	15.2	4.2	3.95	2.95	1.95	18.0	0.35	0.4	0.06	4
VPT05.152.100	1.0	1.25	15.2	4.8	4.55	3.55	2.25	18.0	0.55	0.7	0.12	5
VPT05.203.100	1.0	1.25	20.3	4.8	4.55	3.55	2.25	23.0	0.55	0.7	0.12	5
VPT05.254.100	1.0	1.25	25.4	4.8	4.55	3.55	2.25	28.0	0.55	0.7	0.12	5
VPT05.152.075	0.75	1.0	15.2	5.2	4.85	3.65	2.40	18.0	0.45	0.57	0.09	5
VPT05.152.050	0.5	0.75	15.2	5.2	4.95	3.75	2.45	18.0	0.35	0.43	0.06	5
VPT06.152.100	1.0	1.25	15.2	6.2	5.95	3.95	2.95	18.0	0.55	0.7	0.12	6
VPT06.152.125	1.25	1.5	15.2	6.2	5.95	3.95	2.95	18.0	0.75	0.84	0.16	6
VPT06.203.125	1.25	1.5	20.3	6.2	5.95	3.95	2.95	23.0	0.75	0.84	0.16	6
VPT06.254.125	1.25	1.5	25.4	6.2	5.95	3.95	2.95	28.0	0.75	0.84	0.16	6
VPT06.152.150	1.5	1.75	15.2	6.2	5.95	3.95	2.95	18.0	0.8	0.98	0.18	6
VPT06.203.150	1.5	1.75	20.3	6.2	5.95	3.95	2.95	23.0	0.8	0.98	0.18	6
VPT06.203.175	1.75	2.0	20.3	6.2	5.95	3.95	2.95	23.0	1.0	1.18	0.25	6

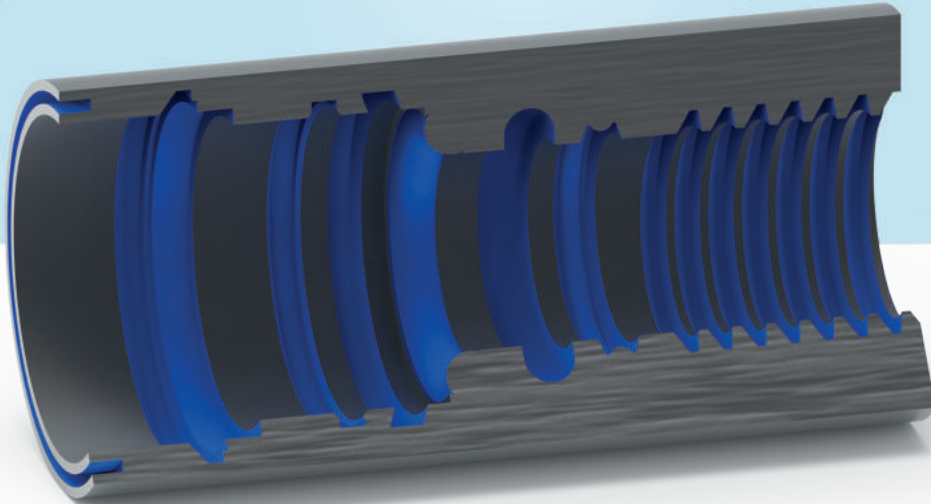
Sipariş Örneği/Ordering Example/Bestellbeispiel
1 ad./pcs./stück VPT.04.152.080

ALIN KANAL AÇMA MİNİ CUT TAKIMLAR
 MINI CUT FACE GROOVING / MİNİ CUT AXIALSTECHEN



Ürün Kodu Product Code Artikelnummer	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)							
	W	L2	Ødmin	R	f	LH	tmax	ØD
VPFG06.152.0787.R005	0.787	15.2	6.2	0.05	2.95	18.0	1.8	6
VPFG06.152.1000.R005	1.0	15.2	6.2	0.05	2.95	18.0	2.0	6
VPFG06.152.1500.R005	1.5	15.2	6.2	0.05	2.95	18.0	3.0	6
VPFG06.152.1000.R015	1.0	15.2	6.2	0.15	2.95	18.0	2.0	6
VPFG06.152.1168.R015	1.168	15.2	6.2	0.15	2.95	18.0	2.34	6
VPFG06.152.1500.R015	1.5	15.2	6.2	0.15	2.95	18.0	3.0	6
VPFG06.152.1575.R015	1.575	15.2	6.2	0.15	2.95	18.0	3.15	6
VPFG06.152.1981.R015	1.981	15.2	6.2	0.15	2.95	18.0	3.95	6
VPFG06.152.2000.R015	2.0	15.2	6.2	0.15	2.95	18.0	4.0	6
VPFG06.152.2388.R015	2.388	15.2	6.2	0.15	2.95	18.0	5.0	6
VPFG06.152.2500.R015	2.5	15.2	6.2	0.15	2.95	18.0	5.0	6
VPFG06.152.3000.R015	3.0	15.2	6.2	0.15	2.95	18.0	6.0	6
VPFG06.152.3175.R015	3.175	15.2	6.2	0.15	2.95	18.0	6.0	6

SPECIAL MINI CUT TOOLS



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

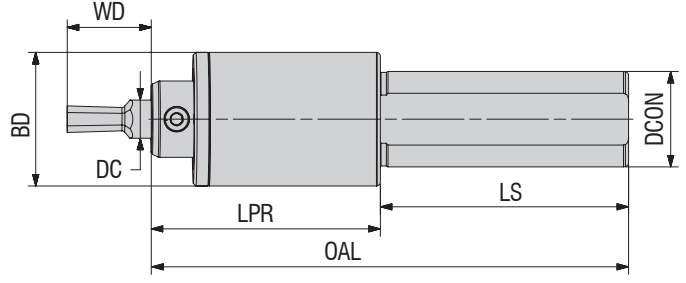
TOOL TYPE		TOOL DIMENSIONS				
		ØD	ØDmin	L	RE	TMAX
BORING	☐					
GROOVING	☐				RE - R1,R2	W TMAX
FACE GROOVING	☐				RE - R1,R2	W TMAX
THREADING	☐				CHOOSE THREADING TYPE METRIC ☐ NPT ☐ UNF/UNC ☐ TRAPEZOIDAL ☐ WHITWORTH ☐ ACME ☐	

TORX - ALYAN / PUNCH - KAZIMA TAKIMLARI

TORX-ALLEN / PUNCH - BROACH SET

TORX WINKELSCHRAUBENDEHER WERKZEUGE



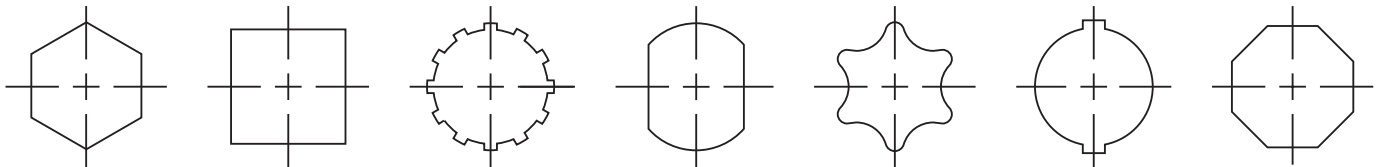


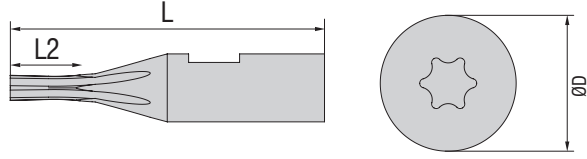
Ürün Kodu
Product Code
Artikelnummer

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

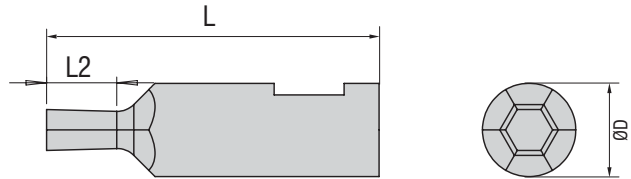
	BD	DC	WD	LPR	LS	OAL	DCON
new VBTH-D08-W22-L125	Ø35.00	Ø8.00	15.00	60.00	65.00	125.00	Ø22.00
new VBTH-D08-W25-L125	Ø35.00	Ø8.00	15.00	60.00	65.00	125.00	Ø25.00
new VBTH-D10-W20-L125	Ø35.00	Ø10.00	22.00	60.00	65.00	125.00	Ø20.00
new VBTH-D10-W22-L125	Ø35.00	Ø10.00	22.00	60.00	65.00	125.00	Ø22.00
new VBTH-D10-W25-L125	Ø35.00	Ø10.00	22.00	60.00	65.00	125.00	Ø25.00
new VBTH-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 VBTH-D08-W22-L125



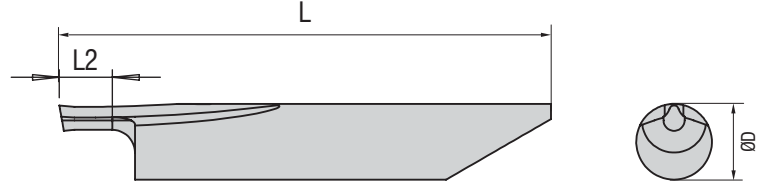


Ürün Kodu Product Code Artikelnummer	Soket Numarası Socket Number Seriennummer	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		
		ØD	L2	L
VPTX-006	T6	8	3	30
VPTX-008	T8	8	3.8	30
VPTX-010	T10	8	4.6	30
VPTX-015	T15	8	5.4	30
VPTX-020	T20	8	6.2	30
VPTX-025	T25	10	6.5	45
VPTX-030	T30	10	7	45
VPTX-040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



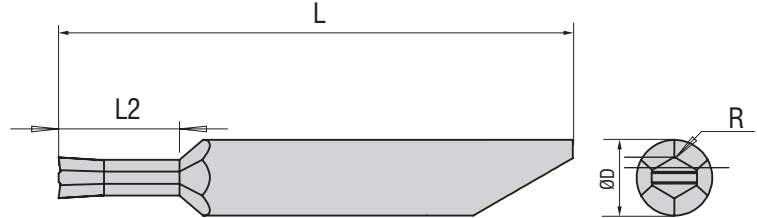
Ürün Kodu Product Code Artikelnummer	Soket Numarası Socket Number Seriennummer	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		
		ØD	L2	L
VPHX-0015	A1.5	8	3	30
VPHX-0020	A2.0	8	4	30
VPHX-0025	A2.5	8	5	30
VPHX-0030	A3.0	8	6	30
VPHX-0035	A3.5	8	7	30
VPHX-0040	A4.0	8	8	30
VPHX-0045	A4.5	8	9	30
VPHX-0050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

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



Ürün Kodu Product Code Artikelnummer	Soket Numarası Socket Number Seriennummer	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		
		ØD	L2	L
VKTX-006	T6	6	3.0	38
VKTX-008	T8	6	4.0	38
VKTX-010	T10	6	4.5	38
VKTX-015	T15	6	4.5	38
VKTX-020	T20	6	5.0	38
VKTX-030	T30	6	6.0	38
VKTX-040	T40	6	6.5	38
VKTX-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
VKTX-050	T50	6	7.0	38
VKTX-055	T55	6	7.5	38
VKTX-060	T60	6	9.0	38
VKTX-070	T70	6	9.5	38
VKTX-080	T80	6	10.5	38
VKTX-090	T90	6	11.5	38
VKTX-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
VKHX-002-002	A2	6	0.05	3	38
VKHX-025	A2.5	6	0.05	4.5	38
VKHX-003-003	A3	6	0.05	6	38
VKHX-035	A3.5	6	0.05	7	38
VKHX-004-006	A4-6	6	0.10	8	38
VKHX-007-012	A7-12	8	0.15	12	38

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

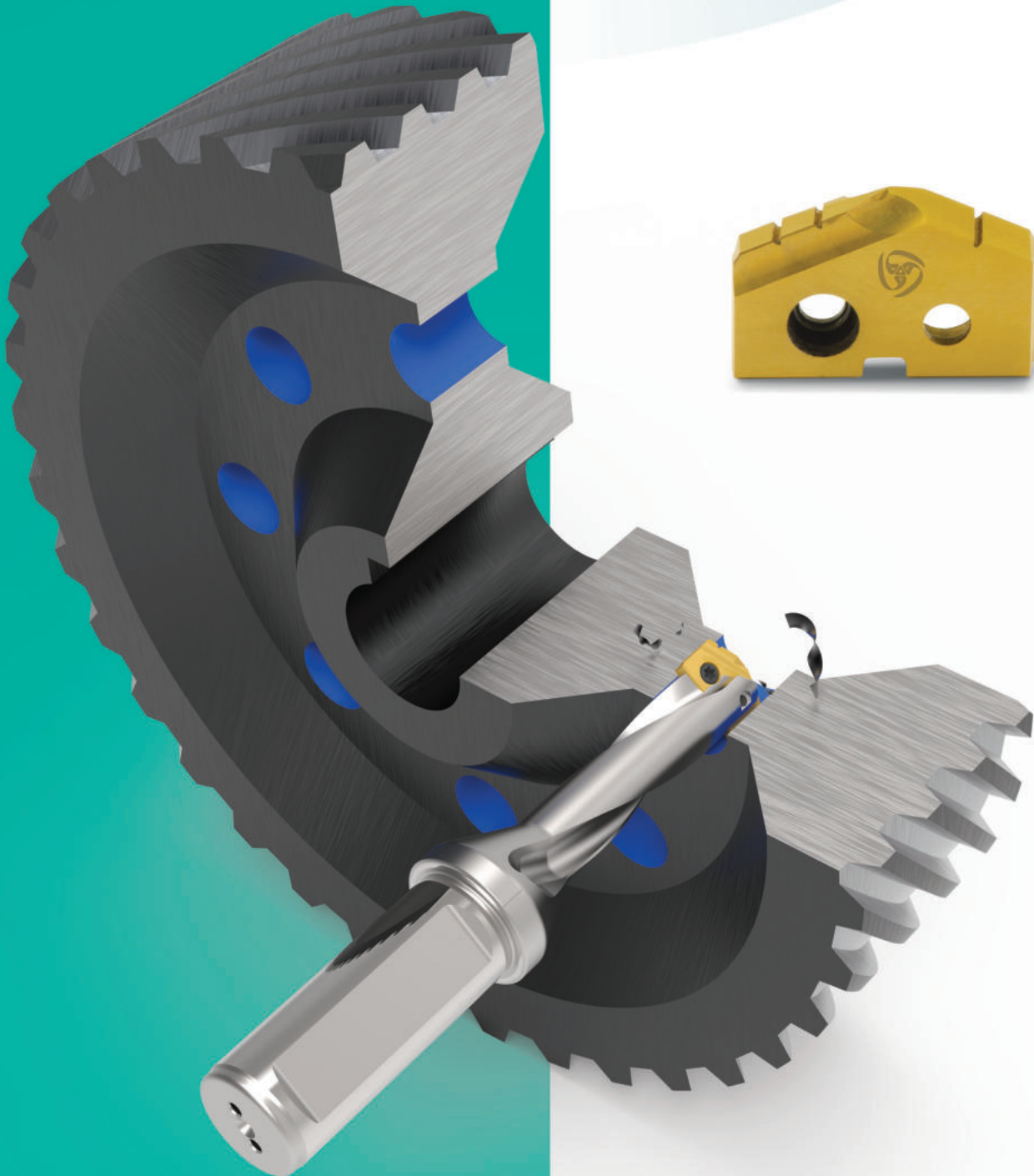
S-DRILL

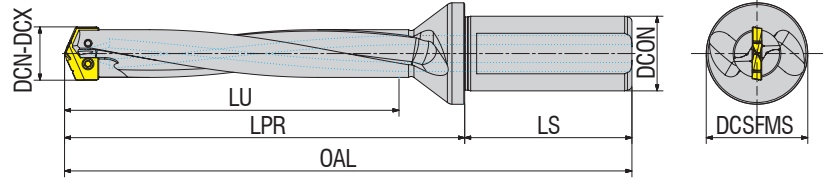
S-DRILL UÇLARI ve TAKIMLARI

S-DRILL INSERTS and TOOLHOLDERS

WENDESCHNEIDPLATTEN und WERKZEUGE

FÜR SPATENBOHRER HALTER

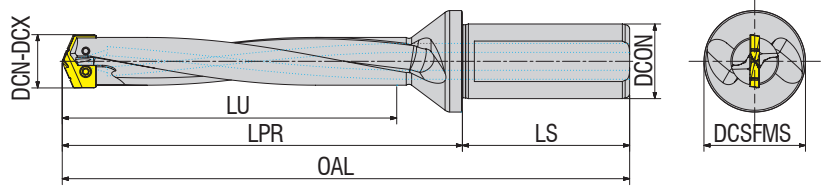




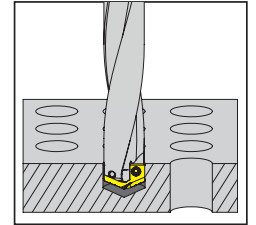
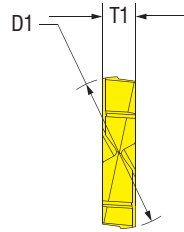
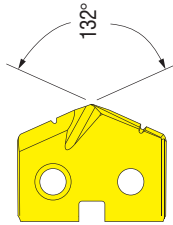
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)								Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DCN	DCX	DCON	DCSFMS	OAL	LU	LPR	LS		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel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

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





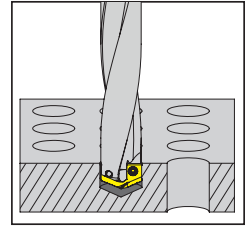
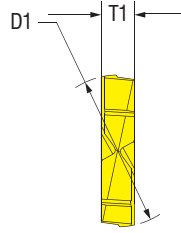
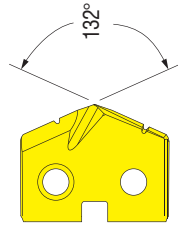
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)								Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DCN	DCX	DCON	DCSFMS	OAL	LU	LPR	LS		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel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



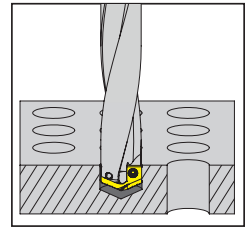
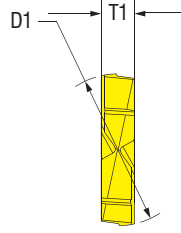
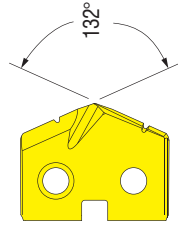
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplamasız Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles Werkzeug
		D1	T1		Sigma	Epsilon	
VSI.M.1100.SG	○	11.00	2.38	VK20X00	VK20X01	VK20X02	VSD-0110-0119-D7-FW20
VSI.M.1150.SG	○	11.50	2.38	VK20X00	VK20X01	VK20X02	VSD-0110-0119-D7-FW20
VSI.M.1200.SG	○	12.00	2.38	VK20X00	VK20X01	VK20X02	VSD-0120-0129-D7-FW20
VSI.M.1250.SG	○	12.50	2.38	VK20X00	VK20X01	VK20X02	VSD-0120-0129-D7-FW20
VSI.M.1290.SG	○	12.90	2.38	VK20X00	VK20X01	VK20X02	VSD-0120-0129-D7-FW20

Sipariş Örneği/Ordering Example/Bestellbeispiel

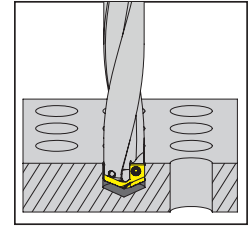
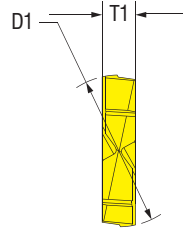
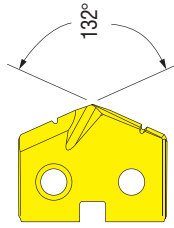
1 ad./pcs./stück VSD-0110-0119-D7-FW20



Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplama Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles Werkzeug
		D1	T1		Sigma	Epsilon	
VSI.M.1300.SG	○	13.00	3.18	VK20X00	VK20X01	VK20X02	VSD-0130-0139-D7-FW20
VSI.M.1350.SG	○	13.50	3.18	VK20X00	VK20X01	VK20X02	VSD-0130-0139-D7-FW20
VSI.M.1400.SG	○	14.00	3.18	VK20X00	VK20X01	VK20X02	VSD-0140-0149-D7-FW20
VSI.M.1450.SG	○	14.50	3.18	VK20X00	VK20X01	VK20X02	VSD-0140-0149-D7-FW20
VSI.M.1500.SG	○	15.00	3.18	VK20X00	VK20X01	VK20X02	VSD-0150-0164-D7-FW20
VSI.M.1550.SG	○	15.50	3.18	VK20X00	VK20X01	VK20X02	VSD-0150-0164-D7-FW20
VSI.M.1600.SG	○	16.00	3.18	VK20X00	VK20X01	VK20X02	VSD-0150-0164-D7-FW20
VSI.M.1650.SG	○	16.50	3.18	VK20X00	VK20X01	VK20X02	VSD-0165-0179-D7-FW25
VSI.M.1700.SG	○	17.00	3.18	VK20X00	VK20X01	VK20X02	VSD-0165-0179-D7-FW25
VSI.M.1750.SG	○	17.50	3.18	VK20X00	VK20X01	VK20X02	VSD-0165-0179-D7-FW25
VSI.M.1790.SG	○	17.90	3.18	VK20X00	VK20X01	VK20X02	VSD-0165-0179-D7-FW25

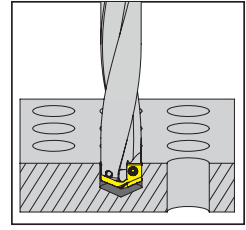
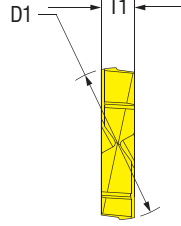
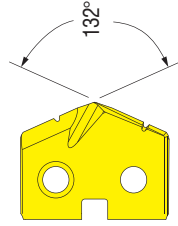


Uç Kodu Insert Code Wendepplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplama Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles Werkzeug
		D1	T1		Sigma	Epsilon	
VSI.M.1800.SG	○	18.00	3.97	VK20X00	VK20X01	VK20X02	VSD-0180-0209-D7-FW25
VSI.M.1850.SG	○	18.50	3.97	VK20X00	VK20X01	VK20X02	VSD-0180-0209-D7-FW25
VSI.M.1900.SG	○	19.00	3.97	VK20X00	VK20X01	VK20X02	VSD-0180-0209-D7-FW25
VSI.M.1950.SG	○	19.50	3.97	VK20X00	VK20X01	VK20X02	VSD-0180-0209-D7-FW25
VSI.M.2000.SG	○	20.00	3.97	VK20X00	VK20X01	VK20X02	VSD-0180-0209-D7-FW25
VSI.M.2050.SG	○	20.50	3.97	VK20X00	VK20X01	VK20X02	VSD-0180-0209-D7-FW25
VSI.M.2100.SG	○	21.00	3.97	VK20X00	VK20X01	VK20X02	VSD-0210-0244-D7-FW25
VSI.M.2150.SG	○	21.50	3.97	VK20X00	VK20X01	VK20X02	VSD-0210-0244-D7-FW25
VSI.M.2200.SG	○	22.00	3.97	VK20X00	VK20X01	VK20X02	VSD-0210-0244-D7-FW25
VSI.M.2250.SG	○	22.50	3.97	VK20X00	VK20X01	VK20X02	VSD-0210-0244-D7-FW25
VSI.M.2300.SG	○	23.00	3.97	VK20X00	VK20X01	VK20X02	VSD-0210-0244-D7-FW25
VSI.M.2350.SG	○	23.50	3.97	VK20X00	VK20X01	VK20X02	VSD-0210-0244-D7-FW25
VSI.M.2400.SG	○	24.00	3.97	VK20X00	VK20X01	VK20X02	VSD-0210-0244-D7-FW25
VSI.M.2440.SG	○	24.40	3.97	VK20X00	VK20X01	VK20X02	VSD-0210-0244-D7-FW25

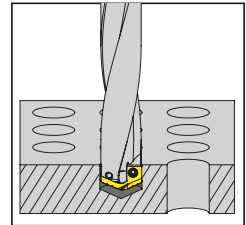
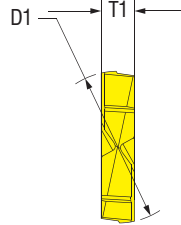
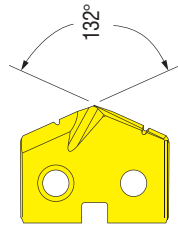


Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplamasız Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles Werkzeug
		D1	T1		Sigma	Epsilon	
VSI.M.2450.SG	○	24.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.2500.SG	○	25.00	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.2550.SG	○	25.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.2600.SG	○	26.00	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.2650.SG	○	26.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.2700.SG	○	27.00	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.2750.SG	○	27.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.2800.SG	○	28.00	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.2850.SG	○	28.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.2900.SG	○	29.00	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.2950.SG	○	29.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0245-0299-D7-FW25
VSI.M.3000.SG	○	30.00	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32
VSI.M.3050.SG	○	30.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32
VSI.M.3100.SG	○	31.00	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32
VSI.M.3150.SG	○	31.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32
VSI.M.3200.SG	○	32.00	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32
VSI.M.3250.SG	○	32.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32
VSI.M.3300.SG	○	33.00	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32
VSI.M.3350.SG	○	33.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32
VSI.M.3400.SG	○	34.00	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32
VSI.M.3450.SG	○	34.50	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32
VSI.M.3490.SG	○	34.90	4.76	VK20X00	VK20X01	VK20X02	VSD-0300-0349-D7-FW32

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



Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplamasız Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles Werkzeug
		D1	T1		Sigma	Epsilon	
VSI.M.3500.SG	○	35.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0350-0394-D5-FW32
VSI.M.3550.SG	○	35.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0350-0394-D5-FW32
VSI.M.3600.SG	○	36.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0350-0394-D5-FW32
VSI.M.3650.SG	○	36.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0350-0394-D5-FW32
VSI.M.3700.SG	○	37.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0350-0394-D5-FW32
VSI.M.3750.SG	○	37.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0350-0394-D5-FW32
VSI.M.3800.SG	○	38.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0350-0394-D5-FW32
VSI.M.3850.SG	○	38.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0350-0394-D5-FW32
VSI.M.3900.SG	○	39.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0350-0394-D5-FW32
VSI.M.3950.SG	○	39.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0395-0439-D5-FW40
VSI.M.4000.SG	○	40.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0395-0439-D5-FW40
VSI.M.4050.SG	○	40.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0395-0439-D5-FW40
VSI.M.4100.SG	○	41.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0395-0439-D5-FW40



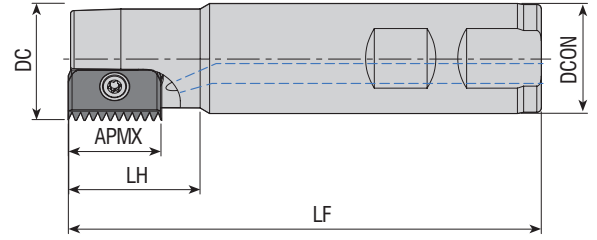
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)		Kaplamasız Uncoated ohne Beschichtung	Kaplama Coating Beschichtung		Uyumlu Takım Compatible Toolholder Kompatibles Werkzeug
		D1	T1		Sigma	Epsilon	
VSI.M.4150.SG	○	41.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0395-0439-D5-FW40
VSI.M.4200.SG	○	42.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0395-0439-D5-FW40
VSI.M.4250.SG	○	42.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0395-0439-D5-FW40
VSI.M.4300.SG	○	43.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0395-0439-D5-FW40
VSI.M.4350.SG	○	43.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0395-0439-D5-FW40
VSI.M.4400.SG	○	44.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0440-0480-D5-FW40
VSI.M.4450.SG	○	44.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0440-0480-D5-FW40
VSI.M.4500.SG	○	45.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0440-0480-D5-FW40
VSI.M.4550.SG	○	45.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0440-0480-D5-FW40
VSI.M.4600.SG	○	46.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0440-0480-D5-FW40
VSI.M.4650.SG	○	46.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0440-0480-D5-FW40
VSI.M.4700.SG	○	47.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0440-0480-D5-FW40
VSI.M.4750.SG	○	47.50	6.35	VK20X00	VK20X01	VK20X02	VSD-0440-0480-D5-FW40
VSI.M.4800.SG	○	48.00	6.35	VK20X00	VK20X01	VK20X02	VSD-0440-0480-D5-FW40

DİŞ AÇMA UÇLARI VE TAKIMLARI

THREADING INSERTS and TOOLS

GEWINDESCHNEIDPLATTEN und WERKZEUGE

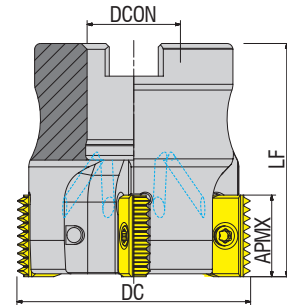




Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
									Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
		DC	ZEFP	DCON	LF	LH	APMX			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

CPT Ucuna Uygun. / Compatible with CPT Insert. / Kompatibel mit CPT Wendepatten.

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



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	
VTM-C14-D040-A16-Z04-H	●	40	4	16	40	14	C14	3008-M2.5x6	82-T08	2506-M8x30	
VTM-C21-D063-A22-Z04-H	●	63	4	22	40	21	C21	4015-M4x11	80-T15	2508-M10x30	

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

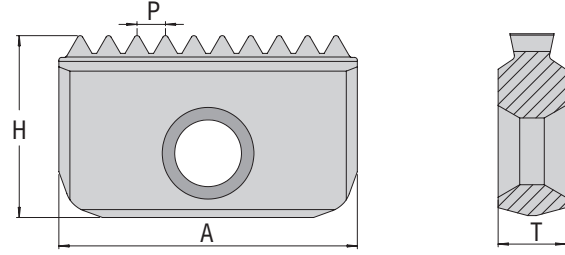
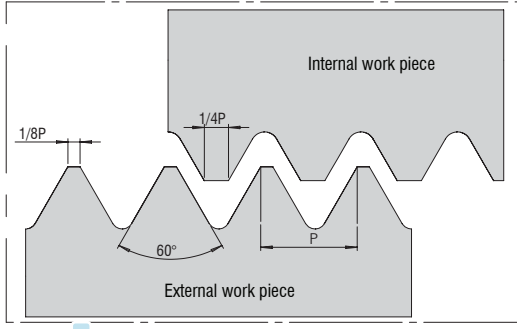
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

VAV Ucuna Uygun. / Compatible with VAV Insert. / Kompatibel mit VAV Wendepatten.

Sipariş Örneği/Ordering Example/Bestellbeispiel

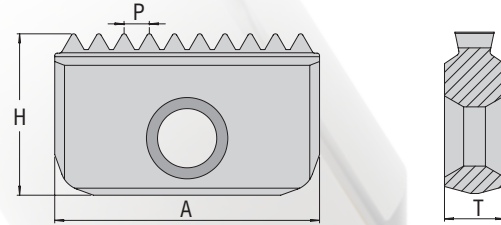
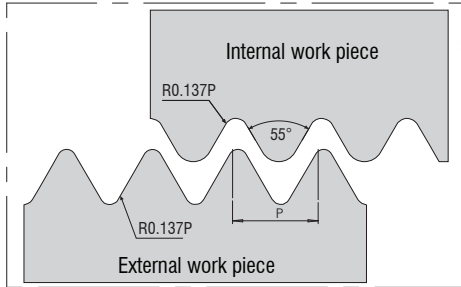
1 ad./pcs./stück ATM-C14-D14-W20-L100-Z01-H

Kesme Hesabı : S 465/ Cutting Calculation : P 465 / Schnittberechnung : P 465



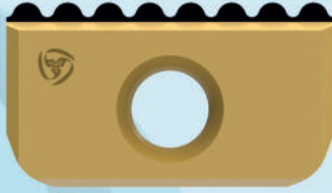
Ürün Kodu Product Code Artikelnummer	Insert Tipi Insert Type Wendeplatten Typ A	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)		
		Adım Pitch Wendeplatten Typ (P)	H	T
VDTI14.050.M	C14	0.5	7.5	3.1
VDTI14.075.M		0.75	7.5	3.1
VDTE14.075.M		0.75	7.5	3.1
VDTI14.100.M		1.00	7.5	3.1
VDTE14.100.M		1.00	7.5	3.1
VDTI14.125.M		1.25	7.5	3.1
VDTE14.125.M		1.25	7.5	3.1
VDTI14.150.M		1.50	7.5	3.1
VDTE14.150.M		1.50	7.5	3.1
VDTI14.175.M		1.75	7.5	3.1
VDTE14.175.M		1.75	7.5	3.1
VDTI14.200.M		2.00	7.5	3.1
VDTE14.200.M		2.00	7.5	3.1
VDTI14.250.M		2.50	7.5	3.1
VDTE14.250.M		2.50	7.5	3.1

Ürün Kodu Product Code Artikelnummer	Insert Tipi Insert Type Wendeplatten Typ A	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)		
		Adım Pitch Wendeplatten Typ (P)	H	T
VDTI21.100.M	C21	1.00	12	4.7
VDTE21.100.M		1.00	12	4.7
VDTI21.150.M		1.50	12	4.7
VDTE21.150.M		1.50	12	4.7
VDTI21.175.M		1.75	12	4.7
VDTI21.200.M		2.00	12	4.7
VDTE21.200.M		2.00	12	4.7
VDTI21.250.M		2.50	12	4.7
VDTE21.250.M		2.50	12	4.7
VDTI21.300.M		3.00	12	4.7
VDTE21.300.M		3.00	12	4.7
VDTI21.350.M		3.5	12	4.7

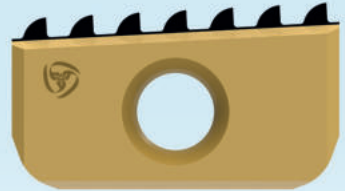
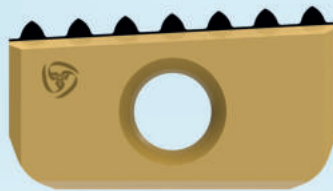
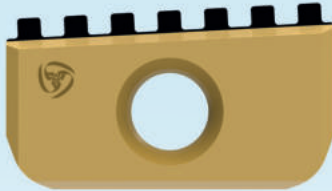


Ürün Kodu Product Code Artikelnummer	Insert Tipi Insert Type Wendeplatten Typ A	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)		
		Adım Pitch Wendeplatten Typ (TPI)	H	T
VDT14.24.W	C14	24	7.5	3.1
VDT14.20.W		20	7.5	3.1
VDT14.19.W		19	7.5	3.1
VDT14.18.W		18	7.5	3.1
VDT14.16.W		16	7.5	3.1
VDT14.14.W		14	7.5	3.1
VDT14.12.W		12	7.5	3.1
VDT14.11.W		11	7.5	3.1

Ürün Kodu Product Code Artikelnummer	Insert Tipi Insert Type Wendeplatten Typ A	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)		
		Adım Pitch Wendeplatten Typ (TPI)	H	T
VDT21.24.W	C21	24	12	4.7
VDT21.20.W		20	12	4.7
VDT21.19.W		19	12	4.7
VDT21.18.W		18	12	4.7
VDT21.16.W		16	12	4.7
VDT21.14.W		14	12	4.7
VDT21.12.W		12	12	4.7
VDT21.11.W		11	12	4.7
VDT21.10.W		10	12	4.7



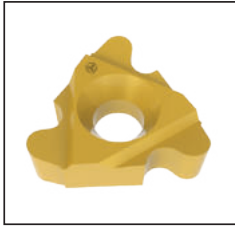
SPECIAL THREADING MILLING TOOLS



DİŞ TARAĞI BİLGİ ALMA FORMU

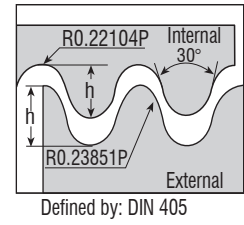
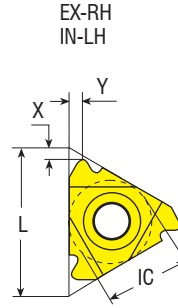
INFORMATION FORM FOR SPECIAL THREAD MILLING INSERTS
 INFORMATIONFORM FÜR SONDER GEWINDEFÄRÄSERWERKZEUGE

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



ROUND

Diş çap / External / Außen



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

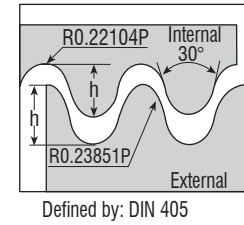
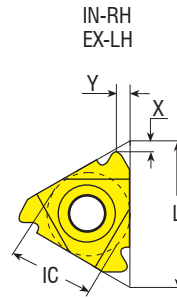
2.3

TER/L 27



ROUND

İç çap / Internal / Innen



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

TIR/L S... 27

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

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

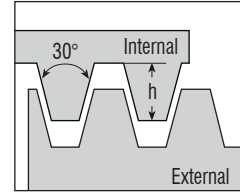
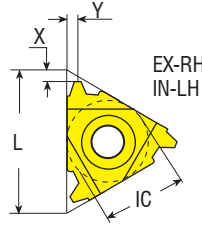
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück 16ST ER 10RD



TRAPEZ

Diş çap / External / Außen



Defined by: DIN 103

Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

Stok
Stock
Lager

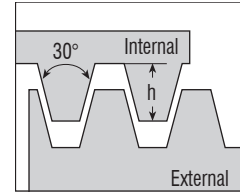
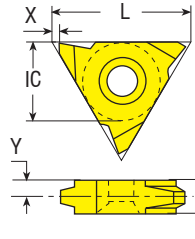
Uç Ölçüleri (mm)
Insert Dimension (mm)
Abmessung (mm)

	R	L	IC	L	Adım / Pitch / Wendeplatten Typ	h	X	Y	UYUMLU TAKIM / COMPATIBLE TOOLHOLDER / KOMPATIBLES WERKZEUG
16ST ER/L 1.5TR	○	○	9.53	16	1.5	0.90	1.0	1.1	SER/L 2525 M16C-T
16ST ER/L 2.0TR	○	○	9.53	16	2.0	1.25	1.1	1.3	
16ST ER/L 2.5TR	○	○	9.53	16	2.5	1.55	1.2	1.4	
16ST ER/L 3.0TR	○	○	9.53	16	3.0	1.75	1.3	1.5	
22ST ER/L 4.0TR	○	○	13	22	4.0	2.25	1.7	1.9	SER/L 2525 M22C-T
22ST ER/L 5.0TR	○	○	13	22	5.0	2.75	2.1	2.5	
22ST ER/L 6.0TR	○	○	13	22	6.0	3.50	2.3	2.7	
27ST ER/L 6.0TR	○	○	15.88	27	6.0	3.50	2.3	2.7	TER/L27



TRAPEZ

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



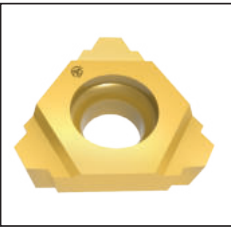
Defined by: DIN 103

Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

Stok
Stock
Lager

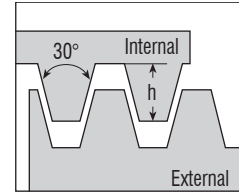
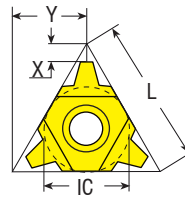
Uç Ölçüleri (mm)
Insert Dimension (mm)
Abmessung (mm)

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



TRAPEZ

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



Defined by: DIN 103

Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

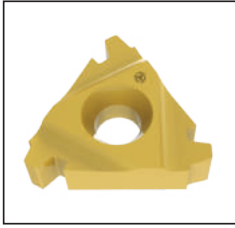
Stok
Stock
Lager

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

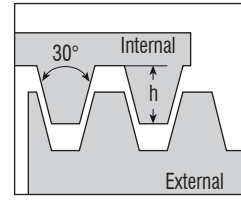
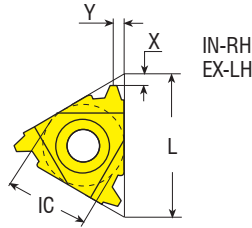
	R	L	IC	L	Adım / Pitch / Wendeplatten Typ	h	X	Y
22UT E 6.0TR	○	○	13	22	6.0	3.50	2.0	11.0
22UT E 7.0TR	○	○	13	22	7.0	4.0	2.3	11.0
22UT E 8.0TR	○	○	13	22	8.0	4.50	2.6	11.0
27UT E 8.0TR	○	○	15.88	27	8.0	4.50	2.6	13.7
27UT E 9.0TR	○	○	15.88	27	9.0	5.00	3.0	13.7

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück 16ST ER 1.5TR 90 / 91



TRAPEZ
İç çap / Internal / Innen



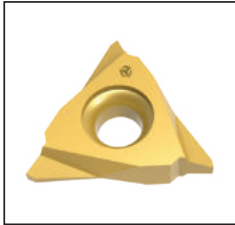
Defined by: DIN 103

Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

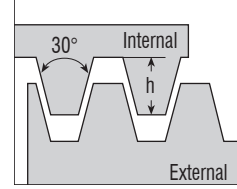
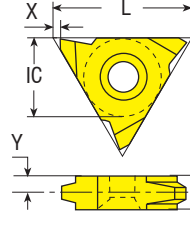
Stok
Stock
Lager

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
16ST IR/L 1.5TR	○	○	9.53	16	1.5	0.90	1.0	1.1	SIR/L S25R 16C-T
16ST IR/L 2.0TR	○	○	9.53	16	2.0	1.25	1.1	1.3	
16ST IR/L 2.5TR	○	○	9.53	16	2.5	1.53	1.2	1.4	
16ST IR/L 3.0TR	○	○	9.53	16	3.0	1.75	1.3	1.5	
22ST IR/L 4.0TR	○	○	13	22	4.0	2.25	1.7	1.9	SIR/L S25R 22C-T
22ST IR/L 5.0TR	○	○	13	22	5.0	2.75	2.1	2.5	
22ST IR/L 6.0TR	○	○	13	22	6.0	3.50	2.3	2.7	
27ST IR/L 6.0TR	○	○	15.88	27	6.0	3.50	2.3	2.7	TIR/L S... 27



TRAPEZ
İç çap / Internal / Innen
V Tip / V Type / V Type



Defined by: DIN 103

Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

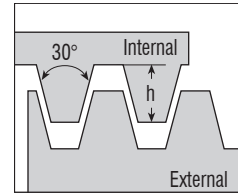
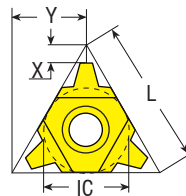
Stok
Stock
Lager

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

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



TRAPEZ
İç çap / Internal / Innen
U Tip / U Type / U Type



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
22UT I 6.0TR	○	○	13	22	6.0	3.50	2.0	11.0
22UT I 7.0TR	○	○	13	22	7.0	4.0	2.3	11.0
22UT I 8.0TR	○	○	13	22	8.0	4.50	2.6	11.0
27UT I 8.0TR	○	○	15.88	27	8.0	4.50	2.6	13.7
27UT I 9.0TR	○	○	15.88	27	9.0	5.00	3.0	13.7

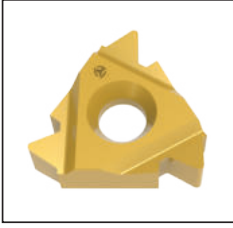
R: Sağ / Right / Rechts L: Sol / Left / Links

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

Sipariş Örneği/Ordering Example/Bestellbeispiel

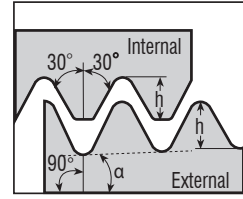
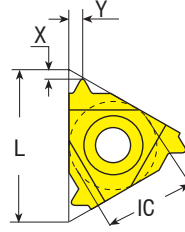
1 ad./pcs./stück 216ST IR 1.5TR





OIL AND GAS INDUSTRY

Dış çap / External / Außen



Defined by: API SPEC. 7:1990

Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

Stok
Stock
Lager

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

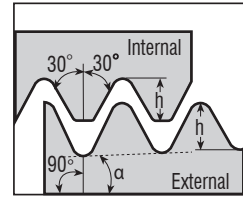
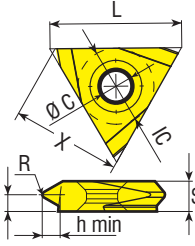
Wendeplatten-Bezeichnung	R	L	Diş / Thread / Gewinde	IC	Adım / Pitch / (TPI) Wendeplatten Typ	Koniklik / Taper / Konisch	hmin	X	Y	L	Bağlantı numarası veya boyutu / Connection no. or size
22ST ER 4APIV382	○	○	V-0.038R	13	4	2	3.09	2.1	2.8	22	NC23-NC50
22ST ER 4APIV383	○	○	V-0.038R	13	4	3	3.08	2.1	2.8	22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



OIL AND GAS INDUSTRY

Dış çap / External / Außen

V Tip / V Type / V Typ



Defined by: API SPEC. 7:1990

Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

Stok
Stock
Lager

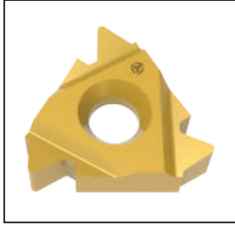
Uç Ölçüleri (mm)
Insert Dimension (mm)
Abmessung (mm)

Wendeplatten-Bezeichnung														Bağlantı numarası veya boyutu / Connection no. or size
R	L	Diş / Thread / Gewinde	IC	Adım / Pitch / (TPI) Wendeplatten Typ	Koniklik / Taper / Konisch	R	hmin	S	C	X	Y	L		
27VT ER 5API403	○	○	V-0.040	15.88	5	3	0.51	3.00	6.38	6.20	23.4	3.9	27	2 3/8"-4 1/2" REG

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

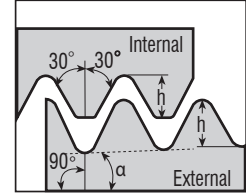
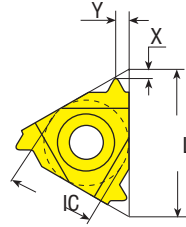
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

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



OIL AND GAS INDUSTRY

İç çap / Internal / Innen



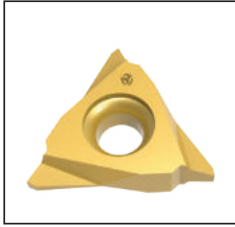
Defined by: API SPEC. 7:1990

Uç Kodu Insert Code Wendeplatten-Bezeichnung

Stok
Stock
Lager

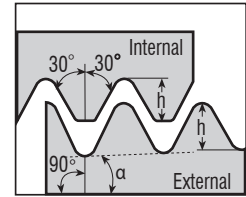
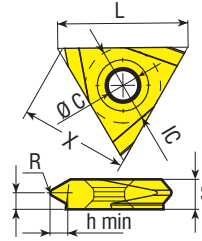
Uç Ölçüleri (mm)
Insert Dimension (mm)
Abmessung (mm)

Wendeplatten-Bezeichnung	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
22ST IR 4APIV382	○	○	V-0.038R	13	4	2	3.09	2.1	2.8	22	NC23-NC50
22ST IR 4APIV383	○	○	V-0.038R	13	4	3	3.08	2.1	2.8	22	NC56-NC77
22ST IR 4APIV502	○	○	V-0.050	13	4	2	3.75	2.1	3.1	22	6 5/8" REG, 5 1/2"FH, 6 5/8" FH
22ST IR 4APIV503	○	○	V-0.050	13	4	3	3.74	2.0	2.9	22	5 1/2", 7 5/8", 8 5/8" REG
22ST IR 5APIV403	○	○	V-0.040	13	5	3	2.99	1.8	2.6	22	2 3/8"-4 1/2" REG
22ST IR 5APIV551	○	○	V-0.055	13	6	1.5	1.41	2.6	2.0	22	NC10-NC16
27ST IR 4APIV382	○	○	V-0.038R	15.88	4	2	3.09	2.1	2.8	27	NC23-NC50
27ST IR 4APIV383	○	○	V-0.038R	15.88	4	3	3.08	2.1	2.8	27	NC56-NC77
27ST IR 4APIV502	○	○	V-0.050	15.88	4	2	3.75	2.1	3.1	27	6 5/8" REG, 5 1/2"FH, 6 5/8" FH
27ST IR 4APIV503	○	○	V-0.050	15.88	4	3	3.74	2.1	3.1	27	5 1/2", 7 5/8", 8 5/8" REG
27ST IR 5APIV403	○	○	V-0.040	15.88	5	3	2.99	1.9	2.7	27	2 3/8"-4 1/2" REG
27ST IR 4APIV652	○	○	V-0.065	15.88	4	2	2.81	2.3	2.8	27	2 3/8"IF- 5 1/2IF



OIL AND GAS INDUSTRY

İç çap / Internal / Innen
V Tip / V Type / V Typ



Defined by: API SPEC. 7:1990

Uç Kodu Insert Code Wendeplatten-Bezeichnung

Stok
Stock
Lager

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

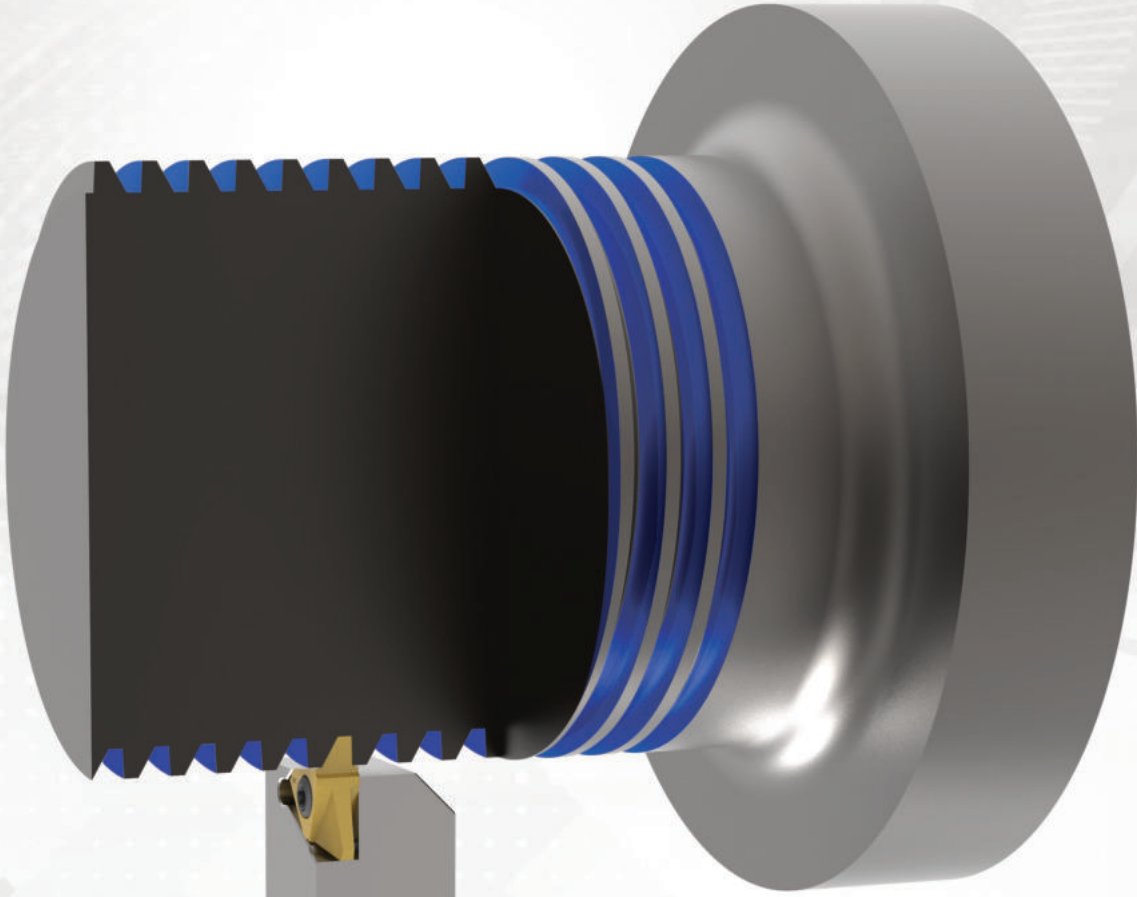
Wendeplatten-Bezeichnung	R	L	Dis / Thread / Gewinde	IC	Adım / Pitch / (TPI) / Wendeplatten Typ	Koniklik / Taper / Konisch	R	hmin	S	C	X	Y	L	Bağlantı numarası veya boyutu / Connection no. or size
27VT IR 5API403	○	○	V-0.040	15.88	5	3	0.51	3.00	6.38	6.20	23.4	3.9	27	2 3/8"-4 1/2" REG

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

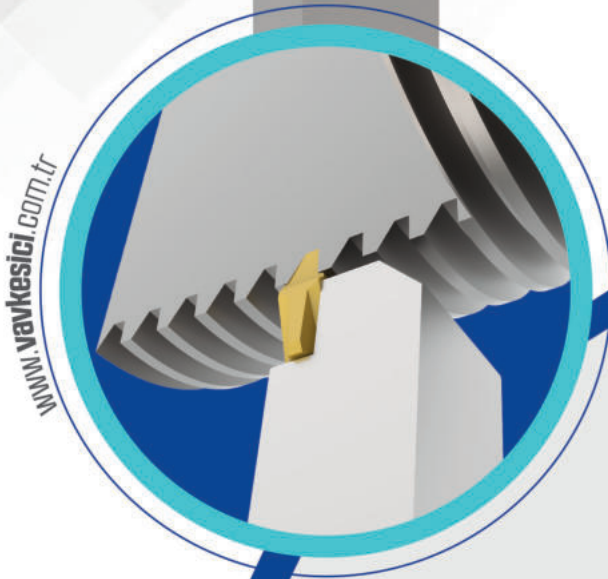
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück 27VT IR 5API403



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



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VAV

DİŞ AÇMA ÇÖZÜMLERİ
THREADING SOLUTIONS
GEWINDE LÖSUNGEN



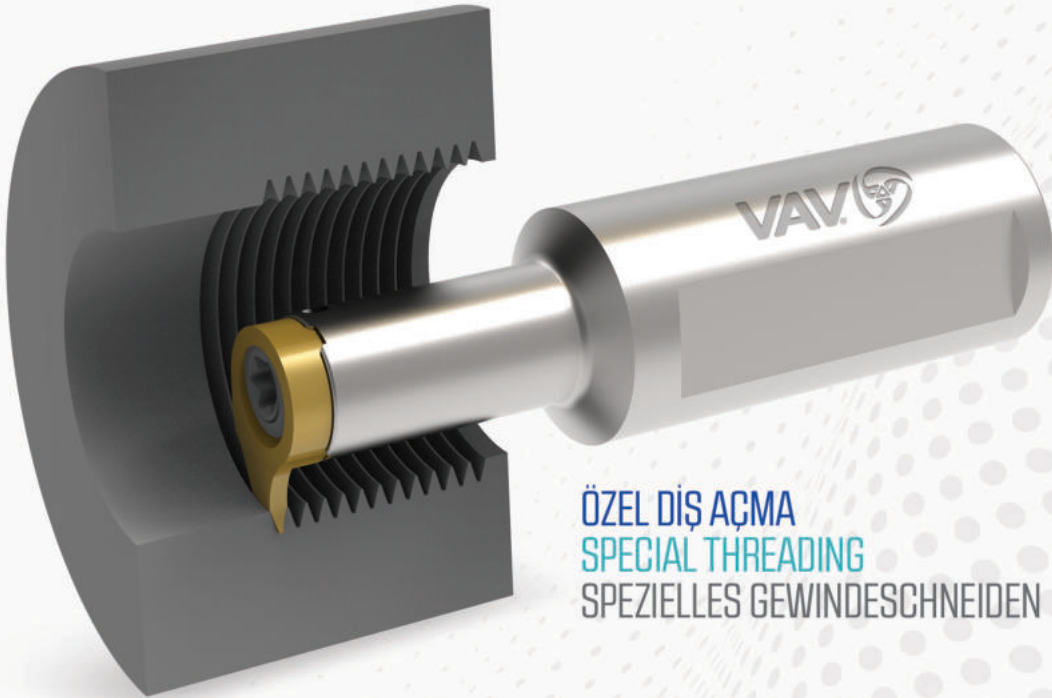
DİŞ AÇMA ÇÖZÜMLERİ THREADING SOLUTIONS GEWINDE LÖSUNGEN



MINİ DİŞ FREZELEME
SOLID THREAD MILLING
SOLIDE GEWINDEFRESEN



MINİ CUT ÖZEL DİŞ AÇMA
MINI CUT SPECIAL THREADING
SPEZIELLES GEWINDESCHNEIDEN MINI CUT



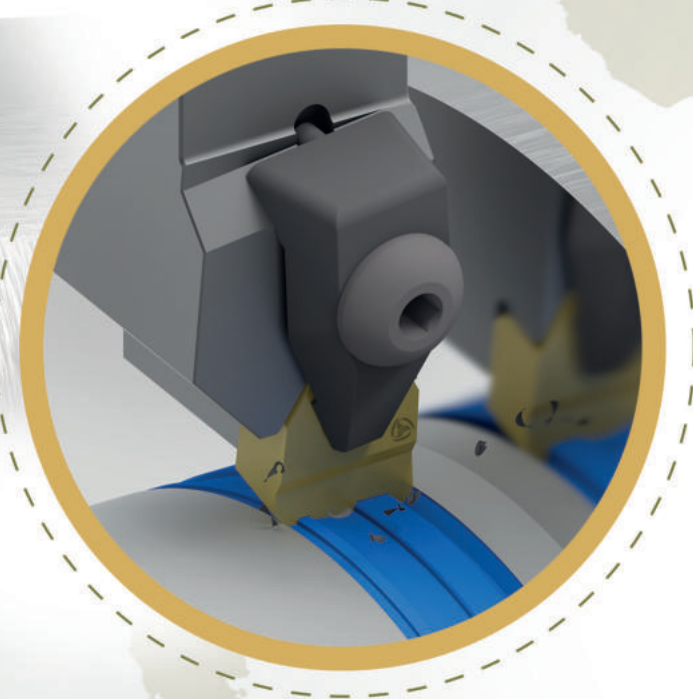
ÖZEL DİŞ AÇMA
SPECIAL THREADING
SPEZIELLES GEWINDESCHNEIDEN



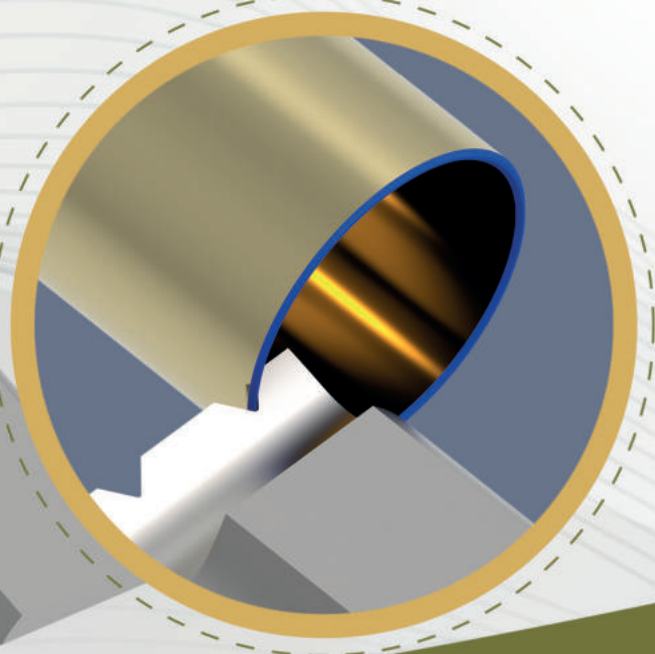
Cözümleri
SOLUTIONS
Lösungen



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

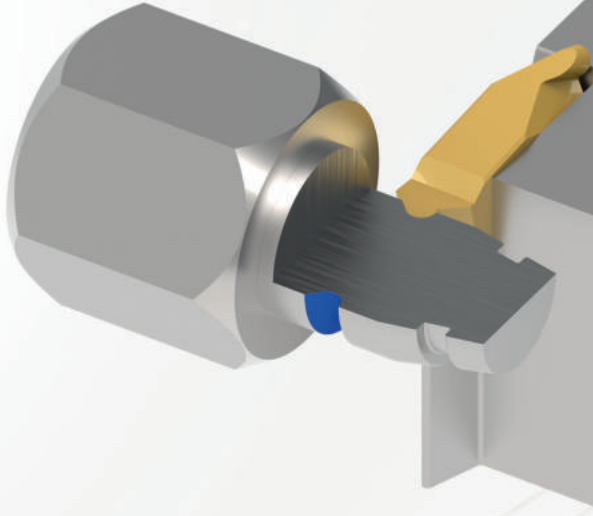
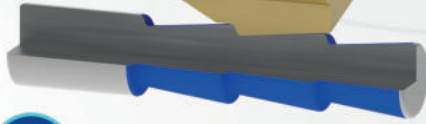


ÖZEL TALAŞLI İMALAT ÇÖZÜMLERİ
SPECIAL MACHINING SOLUTIONS
SONDERLÖSUNGEN FÜR MASCHINEN



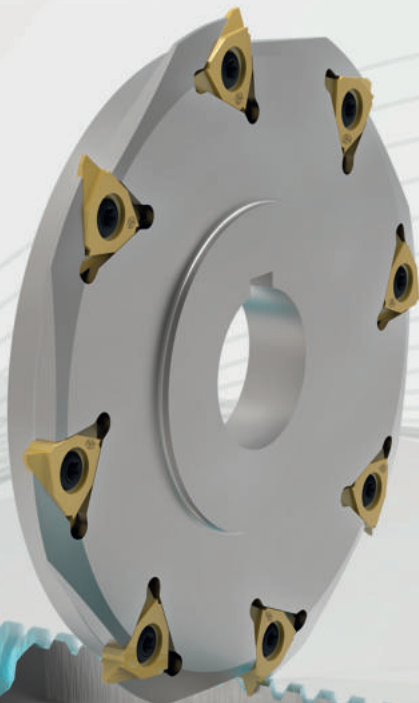
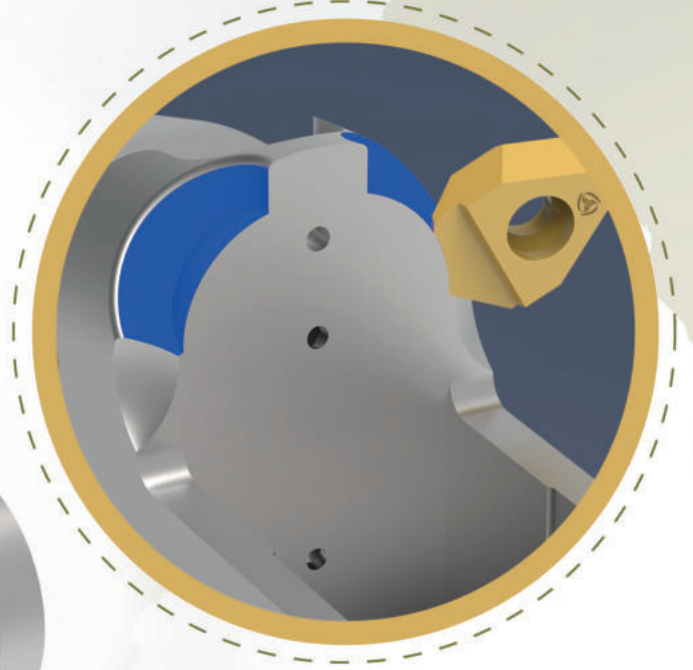
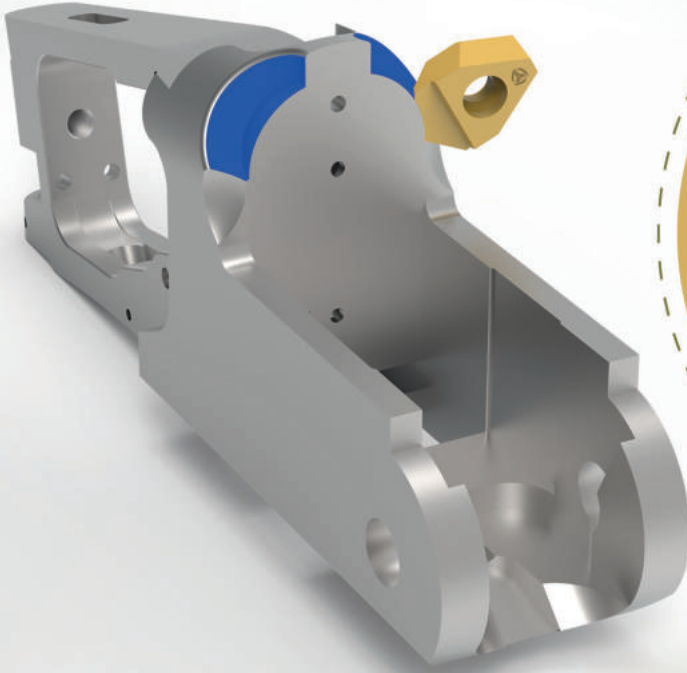


ÖZEL FORM KANAL AÇMA ÇÖZÜMÜ
SPECIAL FORM GROOVING SOLUTIONS
LÖSUNGEN ZUM EINSTECHDREHEN IN SONDERFORMEN

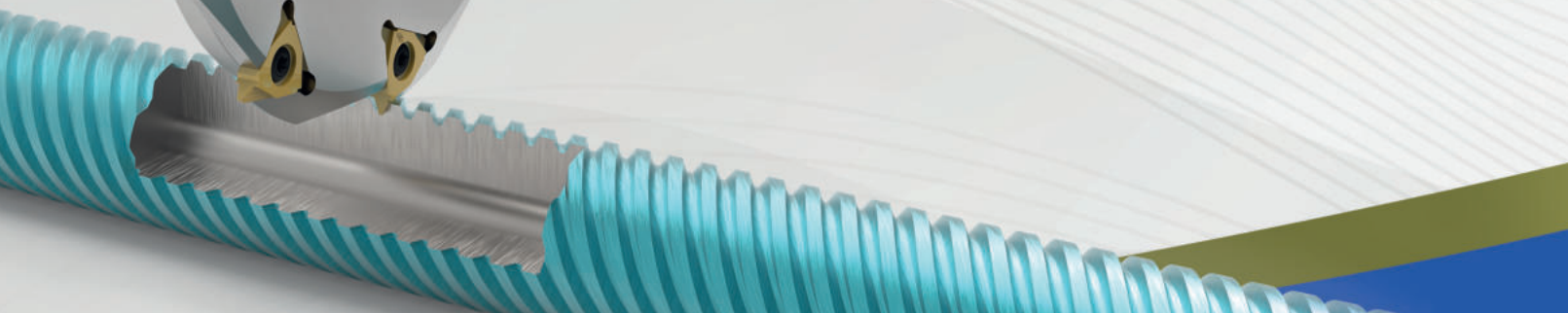




ÖZEL FORM FREZELEME ÇÖZÜMLERİ
SPECIAL FORM MILLING SOLUTIONS
LÖSUNGEN FÜR SONDERFORMEN
ZUM FRÄSEN

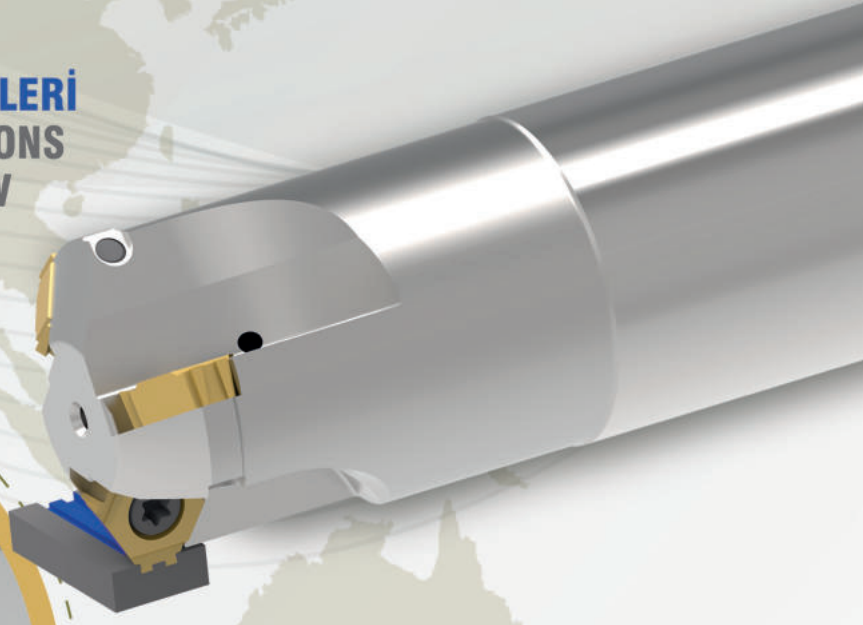
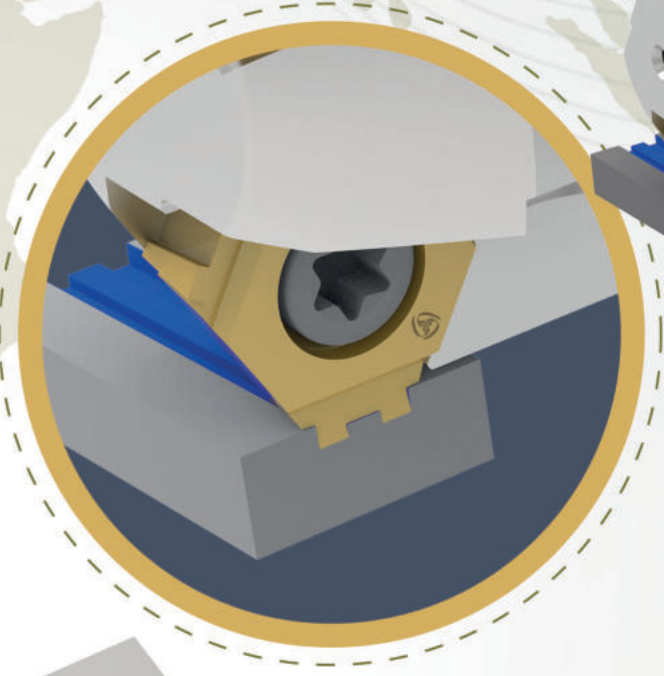


SONSUZ DİŞLİ FREZELEME ÇÖZÜMLERİ
SPECIAL MACHINING SOLUTIONS
LÖSUNGEN ZUM FRÄSEN MIT
ZAHNSTANGENGETRIEBE





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

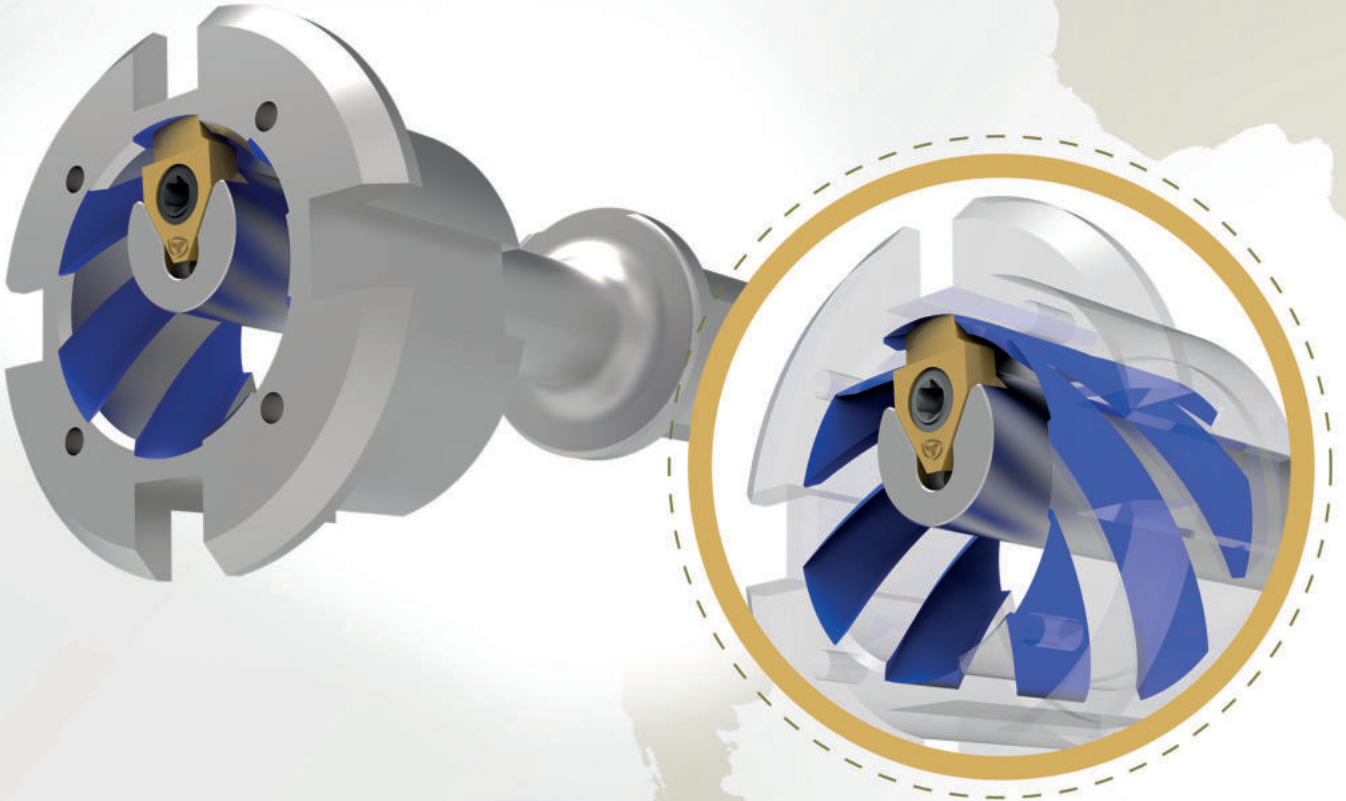


ÖZEL SUPAP ÇÖZÜMLERİ
SPECIAL VALVE SOLUTIONS
SPEZIELLE VENTILLÖSUNGEN





HELİSEL ÖZEL FORM AÇMA ÇÖZÜMLERİ
HELICAL SPECIAL FORMING SOLUTIONS
HELIX SONDERFORMEBEARBEITUNGSLÖSUNGEN

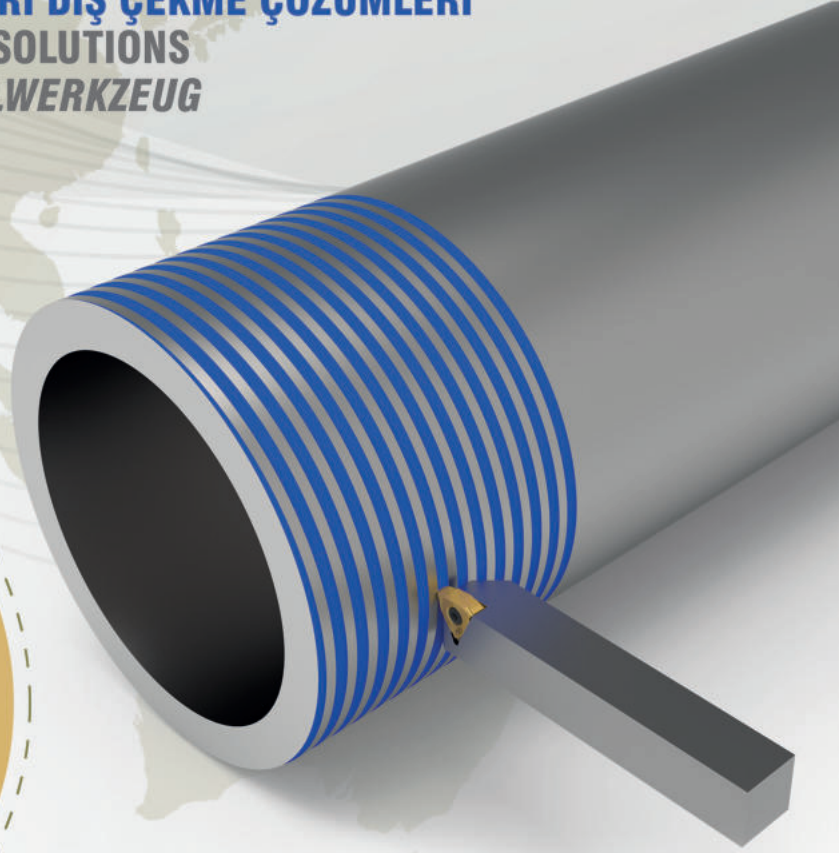


ÖZEL TAKIMLANDIRMA ÇÖZÜMLERİ
SPECIAL MACHINING SOLUTIONS
SONDERLÖSUNGEN FÜR
WERKZEUGHALTER





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



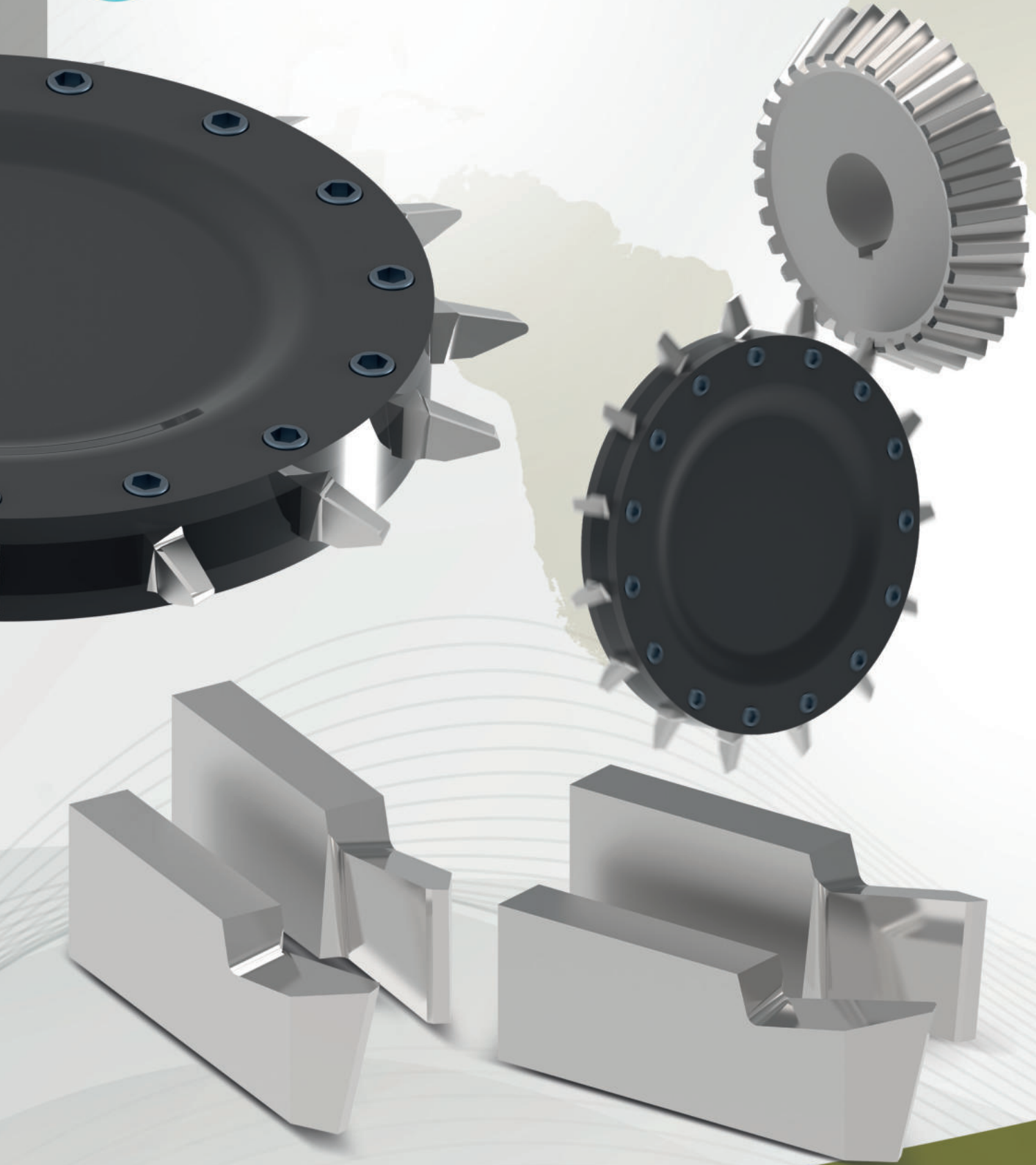
ÖZEL FORM DIŞ ÇEKME ÇÖZÜMLERİ
SPECIAL FORM THREADING SOLUTIONS
LÖSUNGEN ZUM GEWINDEDREHEN
VON SONDERFORMEN



STICK BLADE – KONVOID BLADE KONİK DİŞLİ AÇMA ÇÖZÜMLERİ

STICK BLADE – CONVAID BLADE BEVEL GEAR SOLUTIONS

LÖSUNGEN FÜR STICK BLADE- KONVOID BLADE MIT KEGELRADGETRIEBE

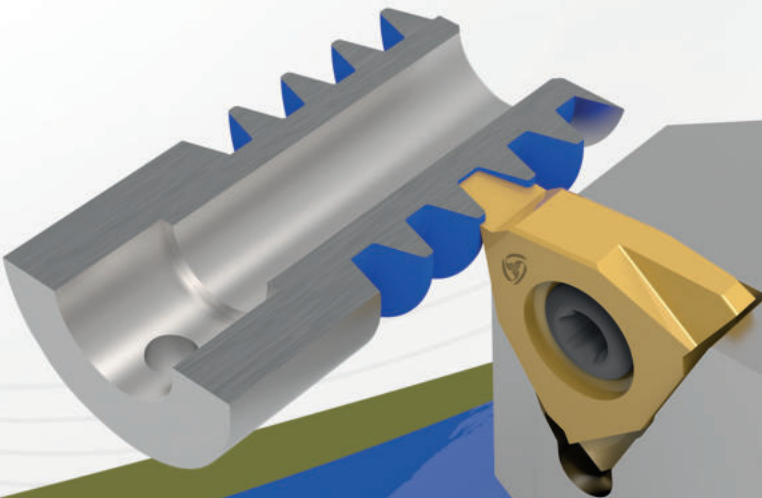




ZİNCİR DİŞLİ BROŞ ÇÖZÜMLERİ
CHAIN SPROCKETS BROACHING SOLUTIONS
LÖSUNGEN MIT KETTENFORM
ZUR NUTUNGSBEARBEITUNGEN

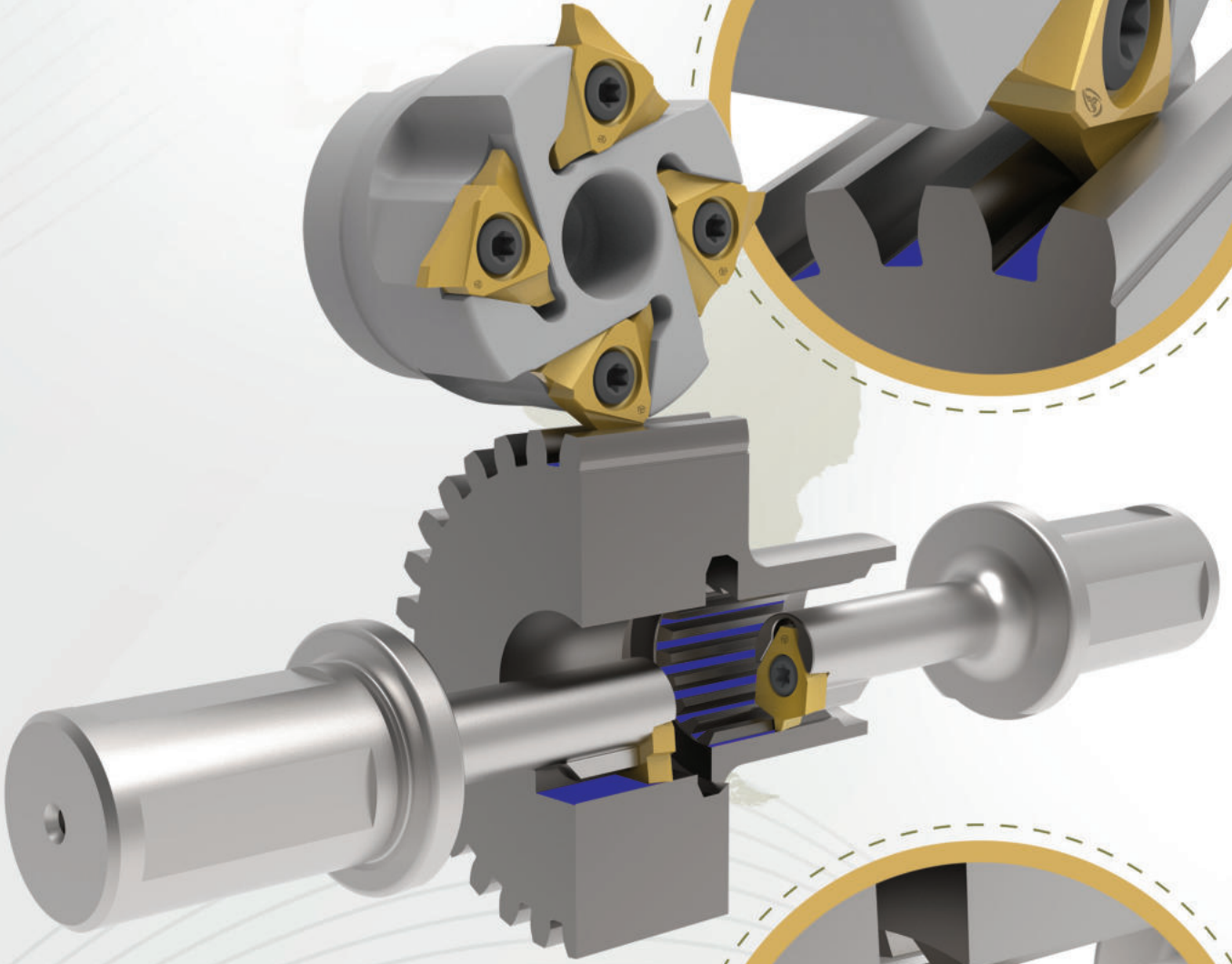


SONSUZ DİŞLİ TORNALAMA ÇÖZÜMLERİ
WORM GEAR TURNING SOLUTIONS
DREHLÖSUNGEN MIT ZAHNSTANGENGETRIEBE



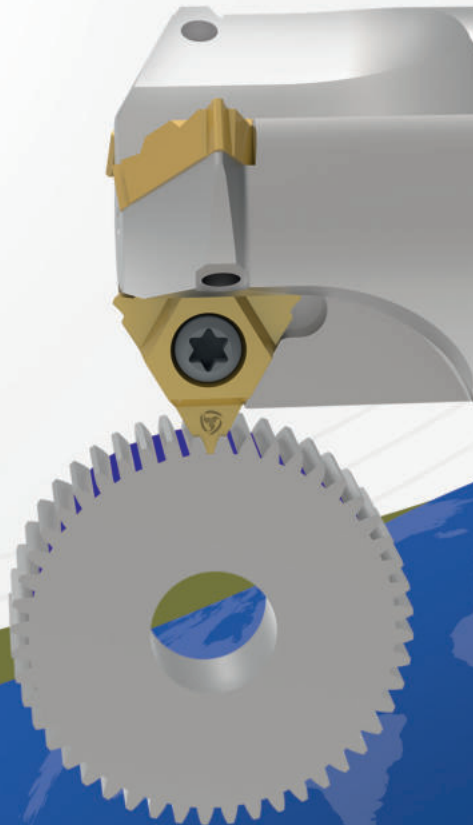
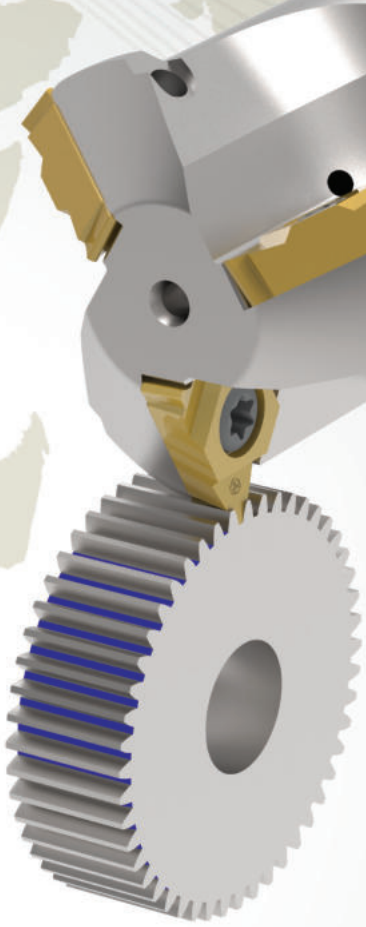


ÖZEL DİŞLİ PROFİL BROŞ ÇÖZÜMLERİ
SPECIAL GEAR PROFILE
BROACHING SOLUTIONS
LÖSUNGEN ZUM RÄUMEN VON
ZAHNRADPROFILEN





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



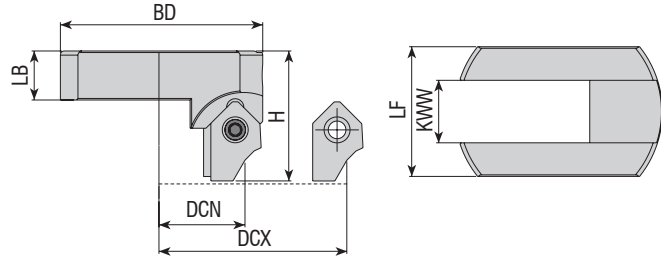
SUPAP

SUPAP YUVASI İŞLEME UÇLARI ve TAKIMLARI

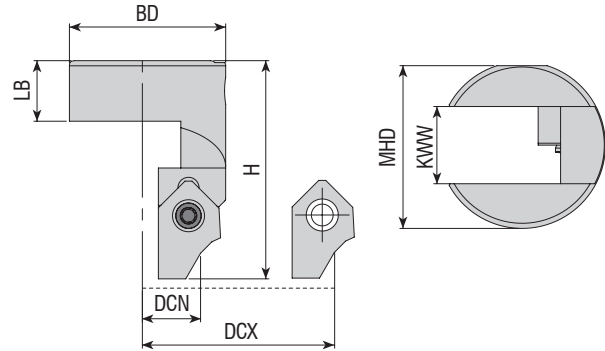
VALVE SEAT INSERTS and TOOLHOLDERS

WENDESCHNEIDPLATTEN und WERKZEUGE FÜR
VENTILSITZBEARBEITUNG





Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						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					



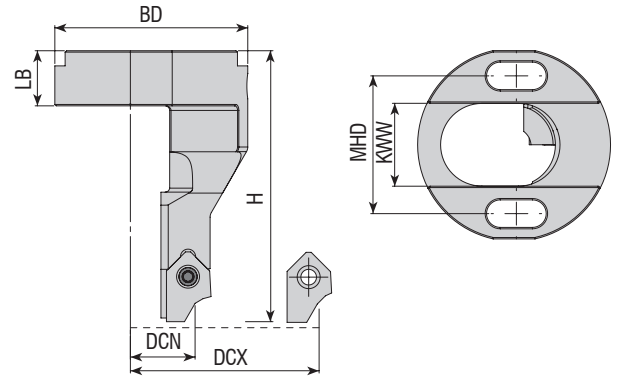
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile				
		DCN DCX	BD	LB	H	KWW	MHD		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel	Ayar Vidası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

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

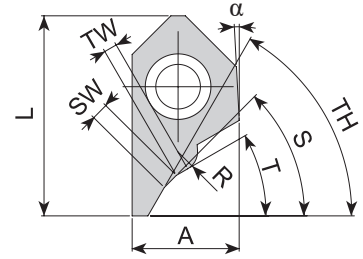
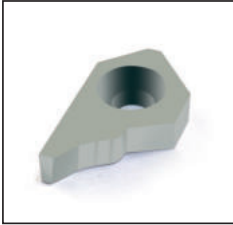
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VST-B11-2842



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



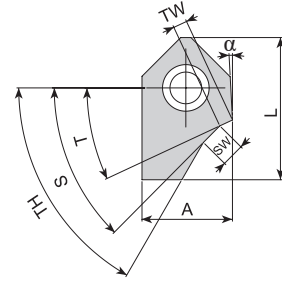
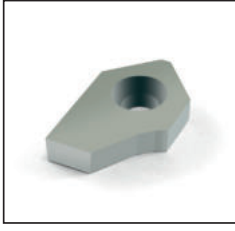
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)								
		S°	SW	T°	TW	TH°	A	L	α	R
B11013	●	45°	1.3	30°	1	60°	8.15	15.10	3°	1.50

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

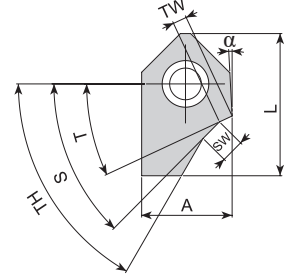
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VST-B11-2032-A



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



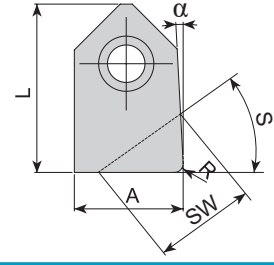
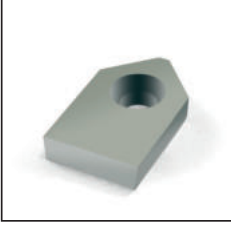
Uç Kodu Insert Code Wendeplatten-Bezeichnung	Stok Stock Lager	Uç Ölçüleri (mm) Insert Dimension (mm) Abmessung (mm)							
		S°	SW	T°	TW	TH°	A	L	α
B11051	●	45°	3	25°	1.4	60°	9.7	15.25	3°
B11052	●	30°	1.5	15°	1.4	60°	9.7	15.25	3°
B11053	●	30°	2.5	15°	1.8	60°	9.7	15.25	3°
B11054	●	45°	1	15°	1	60°	9.7	15.25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

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

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

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück B11051



Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

Stok
Stock
Lager

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

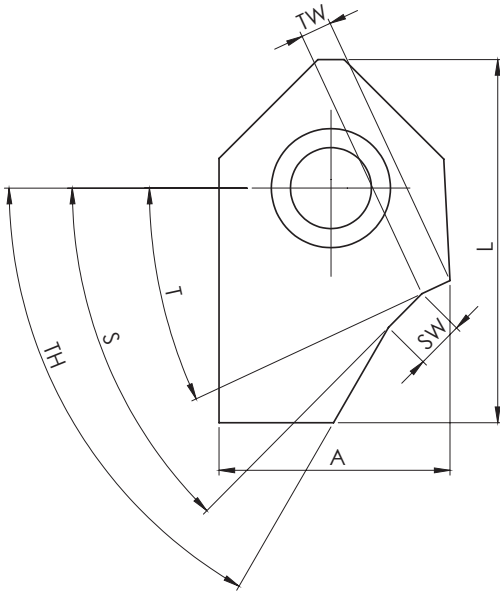
		S°	SW	A	L	α	R
B11015	●	0°	9.85	9.85	15.10	3°	0.80
B11023	●	0°	7.7	7.7	15.10	3°	0.80
B11024	●	20°	8.2	9.75	15.10	3°	-
B11025	●	25°	10	9.65	15.10	3°	-
B11026	●	30°	9	9.65	15.10	3°	-
B11027	●	35°	10	9.6	15.10	3°	-
B11028	●	45°	8.9	9.55	15.10	3°	-
B11057	●	0°	9.6	9.7	14.8	1°	0.2
B11067	●	0°	9.9	9.7	15.10	3°	0.2
B11073	●	36°	10	9.7	15.10	3°	-
B11092	●	15°	8.2	9.5	15.10	3°	-
B11093	●	60°	8.4	9.5	15.10	3°	-
new B11094	●	0°	9.6	9.6	12.0	4°	0.80

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

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

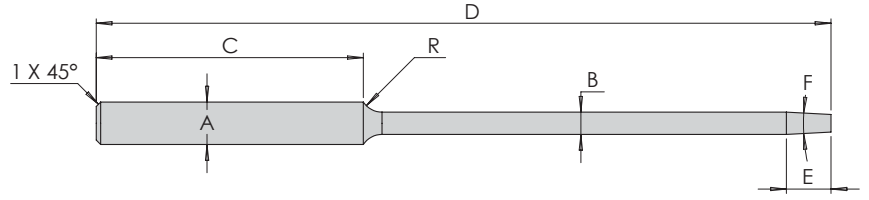
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück B11015



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

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



Uç Kodu
Insert Code
Wendeplatten-Bezeichnung

Stok
 Stock
 Lager

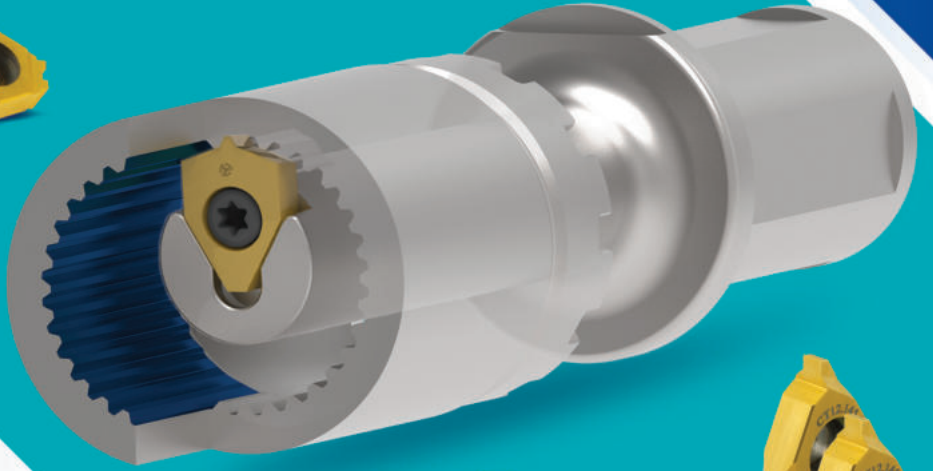
Uç Ölçüleri (mm)
 Insert Dimension (mm)
 Abmessung (mm)

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

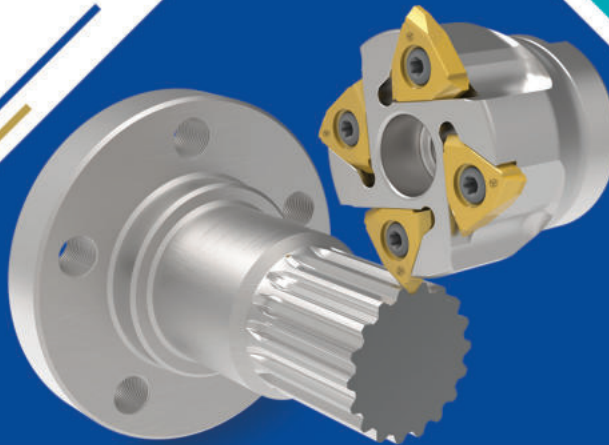
R: Sağ / Right / Rechts L: Sol / Left / Links
 Stokta / In Stock / Auf Lager ● Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

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

ÖZEL PROFİL KESİCİ UÇLAR SPECIAL CUTTING INSERTS



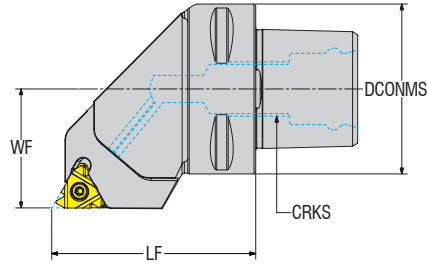
*Siz isteyin,
biz gerçekleştirelim...*
You ask, we make it happen...



POLİGONAL ŞAFTLI YEKPARE TAKIMLAR

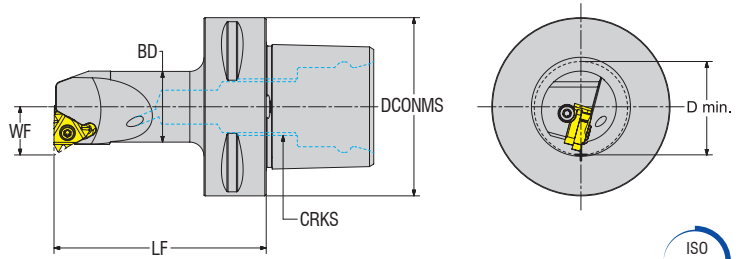
MONOBLOCK TOOLS WITH POLYGONAL SHANK
MONOBLOCKHALTER MIT POLYGONSCHAFT





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	DCONMS	LF	WF	CRKS		Sıkma Vidası Screw Klemmschraube	Sağ Altlık Right Shim U-Platte für WSP rechts	Sol Altlık Left Shim U-Platte für WSP links	Altlık Vidası Shim Screw Schraube für Unterlage	Altlık Vidası Pulu Shim Screw Ring Schraube für Unterlage	Tork Anahtar Torx Key Torx-Schlüssel
													
VC4 TER/L 27050 16 H	●	●	40	50	27	M14x1.5	16 ER/EL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5 40x4.5	ABPL-03	82-T10
VC5 TER/L 35060 16 H	●	●	50	60	35	M16x1.5							
VC6 TER/L 45065 16 H	●	●	63	65	45	M20x2							

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



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	DCONMS	LF	WF	BD	D min.	CRKS		Sıkma Vidası Screw Klemmschraube 	Sağ Altlık Right Shim U-Platte für WSP rechts 	Sol Altlık Left Shim U-Platte für WSP links 	Altlık Vidası Shim Screw Schraube für Unterlage 	Altlık Vidası Pulu Shim Screw Ring Schraube für Unterlagening 	Tork Anahtar Torx Key Torx-Schlüssel 
VC4 TIR/L 14060 16 H	●	●	40	60	14	20	33	M14x1.5	16 IR/IL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
VC4 TIR/L 17070 16 H	●	●	40	70	17	25	33	M14x1.5							
VC4 TIR/L 22090 16 H	●	●	40	90	22	32	40	M14x1.5							
VC5 TIR/L 17070 16 H	●	●	50	70	17	25	33	M16x1.5							
VC5 TIR/L 22090 16 H	●	●	50	90	22	32	33	M16x1.5							
VC5 TIR/L 27105 16 H	●	●	50	105	27	40	40	M16x1.5							
VC6 TIR/L 17075 16 H	●	●	63	75	17	25	33	M20x2							
VC6 TIR/L 22090 16 H	●	●	63	90	22	32	33	M20x2							
VC6 TIR/L 27105 16 H	●	●	63	105	27	40	40	M20x2							

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

Sipariş Örneği/Ordering Example/Bestellbeispiel
1 ad./pcs./stück VC4 TER 27050 16 H

TIRLAMAZ

TIRLAMAZ TAKIMLAR

ANTIVIBRATION TOOLS

SCHWINGUNGSGEDÄMPFTE BOHRSTANGEN





V T T B D16 204 10D H E

2 Takım Tipi
Tool Type
Werkzeugtyp

Tırlamaz Takım
Anti Vibration Tool
Schwingungsgedämpfte Bohrstange

8 Takım Malzemesi
Type of Boring Bar
Art der Bohrstange

Karbür Takviyeli
Carbide reinforced
Hartmetall verstärkt

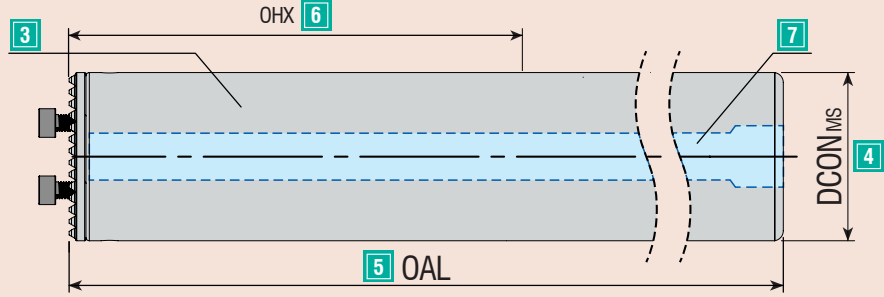
3 Gövde
Body
Schaft

4 Bağlantı Çapı
Connection Diameter
Anschlussdurchmesser

5 Takım Boyu
Overall length
Gesamtlänge

6 Bağlama Boyu
Overhang maximum
Maximale Auskragung

7 İçten Soğutmalı
With Coolant Hole
Mit Innenkühlung



V T T C A 16 SDUCR11

2 Takım Tipi
Tool Type
Werkzeugtyp

Tırlamaz Takım Kartuşu
Anti Vibration Tool Cartridge
Wechselkopf für Schwingungsgedämpfte Bohrstange

3 Kartuş Kodu
Cartridge Code
Bezeichnung für Wechselkopf

Kartuş
Cartridge
Wechselkopf

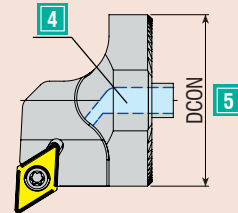
4 İçten Soğutmalı
With Coolant Hole
Mit Innenkühlung

5 Bağlama Çapı
Connection Diameter
Anschlussdurchmesser

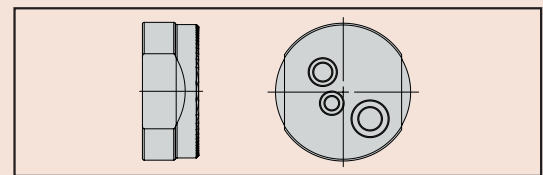
Ø16 - Ø20 - Ø25
Ø32 - Ø40

2 Kartuş Tipi
Cartridge Type
Wechselkopftyp

SDUCR/L, SCLCR/L, SVUCR/L, TCLNR/L, TDUNR/L



V T T C 16-25



2 Takım Tipi
Tool Type
Werkzeugtyp

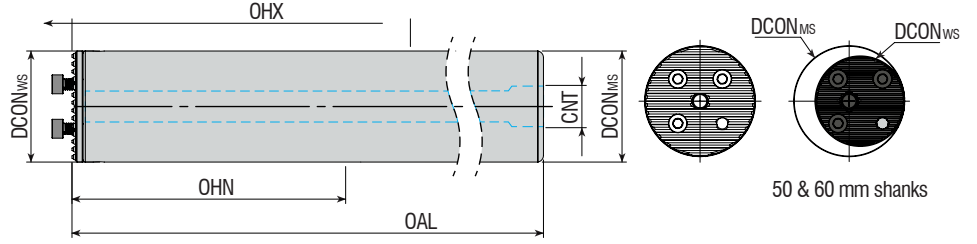
Tırlamaz Takım Kartuşu
Anti Vibration Tool Cartridge
Wechselkopf für Schwingungsgedämpfte Bohrstangen

3 Kartuş
Cartridge
Wechselkopf

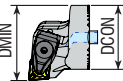
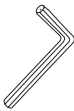
Merkezleme Kartuş Kodu
Centering Cartridge Code
Bezeichnung für zentriertes Wechselkopf

4 Kullanılan Gövde Çap Aralığı
Usable diameter range for body
Nutzbarer Durchmesserbereich für Werkzeugschaft

VTTB-D16/D20/D25
VTTB-D32/D40/D50/D60



50 & 60 mm shanks

Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)							Yedek Parçaları / Spare Parts / Ersatzteile		
		DCONMS	DCONWS	OAL	OHN	OHX	CNT			Montaj Vidası Shim Screw Schraube für Unterlage	Montaj Vida Anahtar Mounting Screw Key Монтажный винт оголовкой под шестигранный
								DCON	DMIN		
VTTB-D16-156-7D-H	○	16	16	156	55	92	G1/8	16	20	2525-M3X10-V	AAL-02-2.5-V
VTTB-D16-204-10D-H-E	○	16	16	204	96	140	G1/8	16	20		
VTTB-D20-200-7D-H	○	20	20	200	70	120	G1/4	20	25		
VTTB-D20-260-10D-H-E	○	20	20	260	120	180	G1/4	20	25	2503-M3.5x10-V	
VTTB-D25-255-7D-H	●	25	25	255	88	158	G1/4	25	32		
VTTB-D25-330-10D-H	○	25	25	330	155	230	G1/4	25	32	2503-M4X12-V	AAL-03-3-V
VTTB-D32-320-7D-H	●	32	32	320	100	192	G3/8	32	40		
VTTB-D32-416-10D-H	○	32	32	416	192	288	G3/8	32	40	2504-M5x12-V	AAL-05-4-V
VTTB-D40-408-7D-H	●	40	40	408	128	248	G1/2	40	50		
VTTB-D40-528-10D-H	○	40	40	528	248	368	G1/2	40	50	2505-M6X16-V	AAL-07-5-V
VTTB-D50-519-7D-H	●	50	40	519	168	318	G1/2	40	63		
VTTB-D50-669-10D-H	○	50	40	669	318	468	G1/2	40	63		
VTTB-D60-628-7D-H	●	60	40	628	208	388	G3/4	40	80		
VTTB-D60-808-10D-H	○	60	40	808	388	568	G3/4	40	80		

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

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

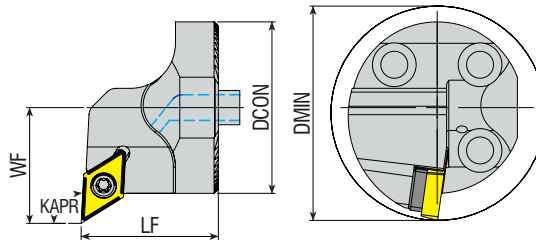
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VTTB-D16-156-7D-H

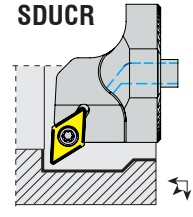




KAPR=93°



SDUCR



Takım Kodu
Ordering Code
Bestell-Bezeichnung

Stok
Stock
Lager

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

Kesici Uç
Insert
Wendeschneidplatte

Sıkma Vidası
Screw
Klemmschraube

Yedek Parçaları / Spare Parts / Ersatzteile

Altık
Shim
Unterlage

Altık Vidası
Shim Screw
Schraube für Unterlage

Bağlantı Parçası
Connection Part
Verbindungsstück

Tork Anahtar
Torx Key
Torx Innensechskantschlüssel

R

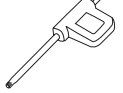
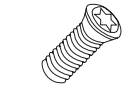
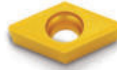
L

DCON

LF

WF

DMIN



VTTTC-A16 SDUCR/L 07

●

●

16

20

11

20

DC.. 0702..

4008-M2.5x6-V

-

-

ACP-02-V

82-T08-V

VTTTC-A20 SDUCR/L 11

●

●

20

20

13

25

DC.. 11T3..

4015-M3.5x11-V

-

-

ACP-02-V

82-T08-V

VTTTC-A25 SDUCR/L 11

●

●

25

23

17

32

DC.. 11T3..

4015-M3.5x12-V

-

AAV-08-M3.5x8-V

ACP-01-V

80-T15-V

VTTTC-A32 SDUCR/L 11

●

●

32

32

22

40

DC.. 11T3..

4015-M3.5x14-V

AADN-2-0001-V

AAV-06-M3.5x11-V

ACP-01-V

80-T15-V

VTTTC-A40 SDUCR/L 11

●

●

40

32

27

50

DC.. 11T3..

4015-M3.5x14-V

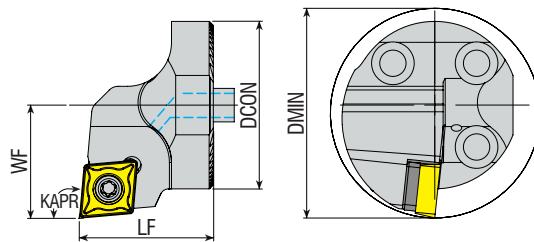
AADN-2-0001-V

AAV-06-M3.5x11-V

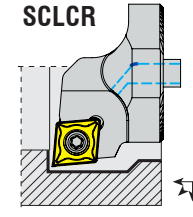
ACP-01-V

80-T15-V

KAPR=95°



SCLCR



Takım Kodu
Ordering Code
Bestell-Bezeichnung

Stok
Stock
Lager

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

Kesici Uç
Insert
Wendeschneidplatte

Sıkma Vidası
Screw
Klemmschraube

Yedek Parçaları / Spare Parts / Ersatzteile

Altık
Shim
Unterlage

Altık Vidası
Shim Screw
Schraube für Unterlage

Bağlantı Parçası
Connection Part
Verbindungsstück

Tork Anahtar
Torx Key
Torx Innensechskantschlüssel

R

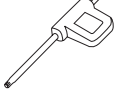
L

DCON

LF

WF

DMIN



VTTTC-A16 SCLCR/L 06

●

●

16

20

11

20

CC.. 0602..

4008-M2.5x6-V

-

-

ACP-02-V

82-T08-V

VTTTC-A20 SCLCR/L 09

●

●

20

20

13

25

CC.. 09T3..

4015-M3.5x9-V

-

-

ACP-02-V

82-T08-V

VTTTC-A25 SCLCR/L 09

●

●

25

23

17

32

CC.. 09T3..

4015-M3.5x12-V

AACN-2-0001-V

AAV-08-M3.5x8-V

ACP-01-V

80-T15-V

VTTTC-A32 SCLCR/L 09

●

●

32

32

22

40

CC.. 09T3..

4015-M3.5x12-V

AACN-2-0001-V

AAV-08-M3.5x8-V

ACP-01-V

80-T15-V

new

VTTTC-A40 SCLCR/L 09

●

○

40

32

27

50

CC.. 1204..

4015-M3.5x12-V

AACN-2-0003-V

AAV-08-M3.5x8-V

ACP-01-V

80-T20-V

VTTTC-A40 SCLCR/L 12

●

●

40

32

27

50

CC.. 1204..

1020-M4.5x16-V

AACN-2-0003-V

AAV-07-M4.5x13-V

ACP-01-V

80-T20-V

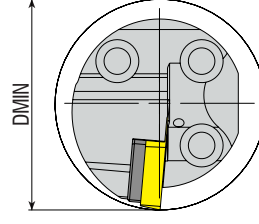
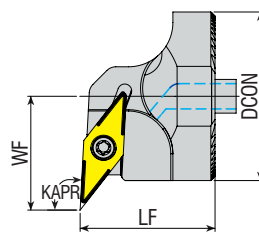
R: Sağ / Right / Rechts L: Sol / Left / Links

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

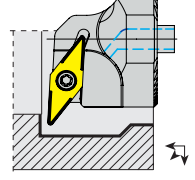
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VTTTC-A16-SDUCR 07

KAPR=93°



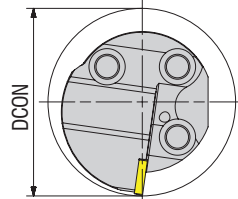
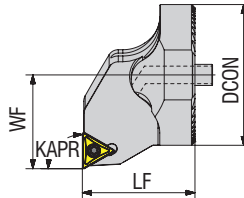
SVUCR



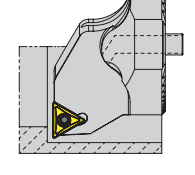
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)				Kesici Uç Insert Wendeschneidplatte	Sıkma Vidası Screw Klemmschraube	Yedek Parçaları / Spare Parts / Ersatzteile			
	R	L	DCON	LF	WF	DMIN			Altlık Shim Unterlage	Altlık Vidası Shim Screw Schraube für Unterlage	Bağlantı Parçası Connection Part Verbindungsstück	Tork Anahtar Torx Key Torx Innensechskantschlüssel
VVTC-A20 SVUCR/L 11	●	●	20	20	15	27	VC.. 1103..	4008-M2.5x6-V	-	-	ACP-02-V	82-T08-V
VVTC-A25 SVUCR/L 11	●	●	25	23	17	32			-	-	ACP-02-V	82-T08-V
VVTC-A32 SVUCR/L 16	●	●	32	32	22	40	VC.. 1604..	4015-M3.5x14-V	AAVN-2-0002-V	AAV-06-M3.5x11-V	ACP-01-V	80-T15-V
VVTC-A40 SVUCR/L 16	●	●	40	32	27	50			AAVN-2-0002-V	AAV-06-M3.5x11-V	ACP-01-V	80-T15-V



KAPR=90°



STFCL



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)				Kesici Uç Insert Wendeschneidplatte	Sıkma Vidası Screw Klemmschraube	Yedek Parçaları / Spare Parts / Ersatzteile			
	R	L	DCON	LF	WF	DMIN			Altlık Shim Unterlage	Altlık Vidası Shim Screw Schraube für Unterlage	Bağlantı Parçası Connection Part Verbindungsstück	Tork Anahtar Torx Key Torx Innensechskantschlüssel
VVTC-A20 STFCL/L 11	○	●	20	20	13	25	TC.. 1102..	4008-M2.5x6-V	-	-	ACP-02-V	82-T08-V
VVTC-A40 STFCL/L 11	●	○	40	32	27	50			-	-	ACP-01-V	82-T08-V

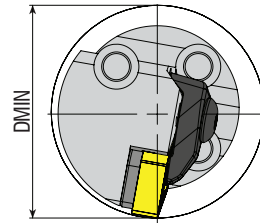
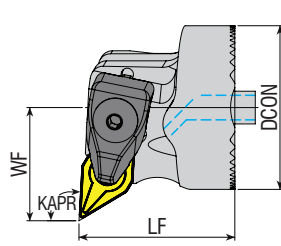
R: Sağ / Right / Rechts L: Sol / Left / Links

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

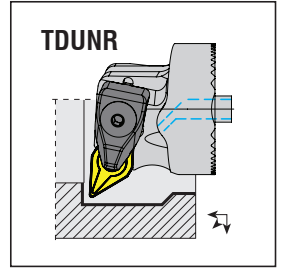
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VVTC-A20 SVUCR 11

KAPR=93°



TDUNR

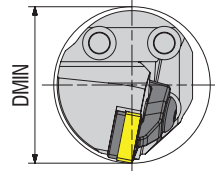
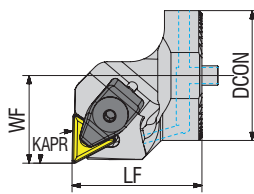


Yedek Parçaları / Spare Parts / Ersatzteile

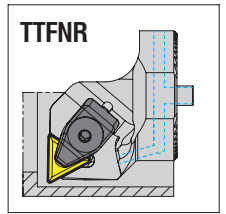
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)				Kesici Uç Insert Wendeschneidplatte	Baskı Pabucu Wedge Clamp Spannpratze	Pabuç Vidası Clamp Screw Klemmschraube	Altlık Shim Unterlage	Altlık Vidası Shim Screw Schraube für Unterlage	Segman Ring Feder	Pul Stamp Ring	Bağlantı Parçası Connection Part Verbindungsstück	Tork Anahtar Torx Key Innerschlüssel
	R	L	DCON	LF	WF	DMIN									
VTTC-A32 TDUNR/L 11	●	●	32	32	22	40	DN.. 1104..	ATK-01-V	AKV-01-M5x22-V	AADN -2-0001-V	AAV-04-M5x12-V	AS-01-V	ABPL-01-V	ACP-01-V	AAL-03-3-V
VTTC-A40 TDUNR/L 15	●	●	40	38	27	50	DN.. 1506..	ATK-02-V	AKV-30-M6x22-V	AADN -3-0001-V	AAV-02-M5x12-V				



KAPR=90°



TTFNR



Yedek Parçaları / Spare Parts / Ersatzteile

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	Pabuç Vidası Clamp Screw Klemmschraube	Altlık Shim Unterlage	Altlık Vidası Shim Screw Schraube für Unterlage	Segman Ring Feder	Pul Stamp Ring	Bağlantı Parçası Connection Part Verbindungsstück	Anahtar Allen Key Innerschlüssel
	R	L	DCON	LF	WF	DMIN									
VTTC-A40 TTFNR/L 16	○	●	40	27	27	50	TN.. 1604..	ATK-01-V	AKV-01-M5x22-V	AATN-2-0002-V	AAV-03-M5x12-V	-	ABPL-01-V	ACP-01-V	AAL-03-3-V

ISO Ucuna Uygunudur. / Compatible with ISO Insert. / Kompatibel mit ISO Wendepplatten.

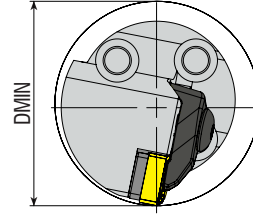
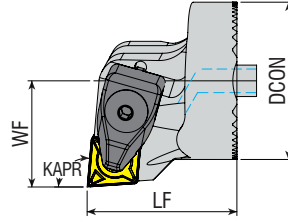
R: Sağ / Right / Rechts L: Sol / Left / Links

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

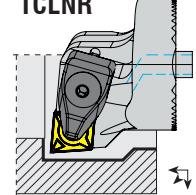
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VTTC-A32 TDUNR 11

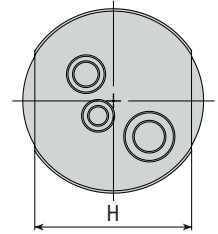
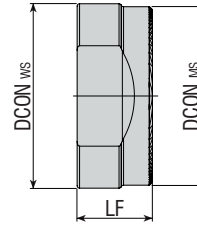
KAPR=95°



TCLNR



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)				Yedek Parçaları / Spare Parts / Ersatzteile								
	R	L	DCON	LF	WF	DMIN	Kesici Uç Insert Wendeschneidplatte	Baskı Pabucu Wedge Clamp Spannpratze	Pabuç Vidası Clamp Screw Klemmschraube	Altlık Shim Unterlage	Altlık Vidası Shim Screw Schraube für Unterlage	Segman Ring Feder	Pul Stamp Ring	Bağlantı Parçası Connection Part Verbindungsstück	Anahtar Allen Key Innensechskantschlüssel
															
VTTC-A32 TCLNR/L 12	●	●	32	38	22	40	CN.. 1204..	ATK-02-V	AKV-30-M6x22-V	AACN -3-0001-V	AAV-02-M5x12-V	AS-01-V	ABPL-01-V	ACP-01-V	AAL-03-3-V
VTTC-A40 TCLNR/L 12	●	●	40	40	27	50									



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)				Gövde Tipi Booring Bars Борштанги
		DCONWS	DCONMS	LF	H	
VTTC-16-25	●	28	25	15	22	
VTTC-32-60	●	53	40	20	35	
						VTTB-D16/D20/D25
						VTTB-D32/D40/D50/D60

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 VTTC-A32 TCLNR 12

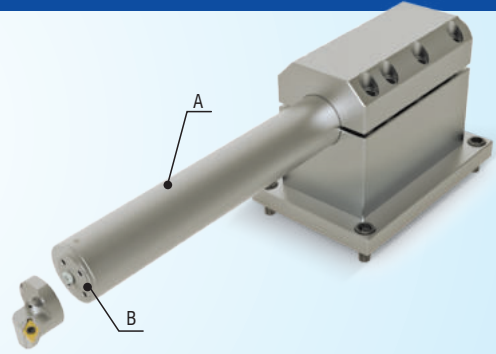


1 Montaj ve Ayarlama | Assembly and Adjusting | Montage und Einstellung

Kartuş ve gövdenin montaj edilecek yüzeyleri, tutucunun iç kısmı temizlenmelidir. Aşağıdaki görselde A ve B konumlarına bakın.

The surface of the cartridge and the shank to be mounted, as well as the inner part of the toolholder should be cleaned. Check A and B in the image below.

Die Oberflächen des Wechselkopfes und des zu montierenden Schafts sowie der innere Teil des Werkzeughalters sollten gereinigt werden. Siehe A und B unten auf der Abbildung

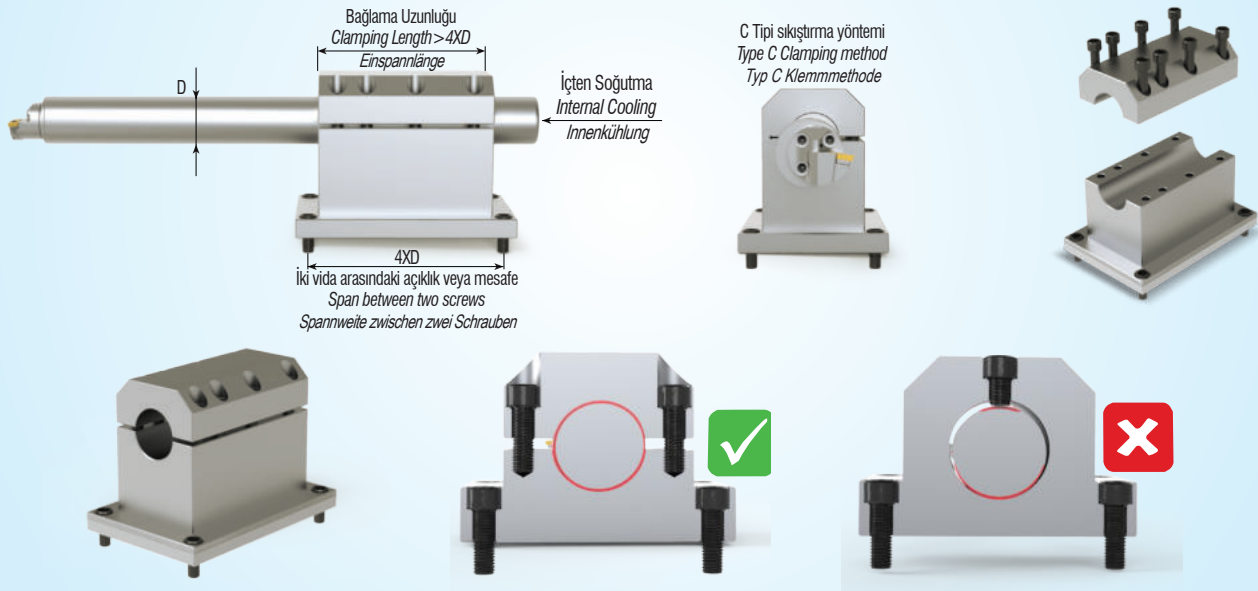


2 Gövde Montajı | Assembly for the Shank | Schaftmontage

Bağlama uzunluğu 4 L / D oranından az olmamalıdır. Tutucunun üst kısmını çıkartma yöntemiyle veya diğer tutma sıkma yöntemleriyle kullanmanızı öneririz (C Tip). Vidalı bağlama yöntemi kullanmayın. Uzun süre çalışırken lütfen içten soğutmayı kullanın.

The clamping length should not be less than 4 L/D ratio. Suggest using the clamping cover with opening method and other holding clamping methods. (Type C). Do not use screw clamping method. Use inner cooling please when working a long time.

Die Einspannlänge sollte nicht weniger als 4 L / D ratio betragen. Vorgeschlagen ist die Oberseite des Halters zu öffnen und andere Halte-Klemmmethoden zu verwenden. (Typ C). Bitte nicht die Schraubklemmmethode verwenden. Bei langer Nutzung, bitte die Innenkühlung verwenden.

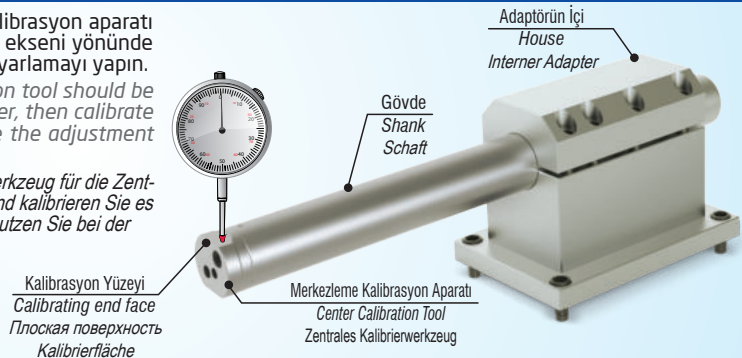


3 Merkez Yüksekliğinin Ayarlanması | Adjusting the Height of Centre Assembly | Einstellung der Zentrumhöhe

Gövdeyi ilk kez montaj ederken merkez yüksekliği için özel kalibrasyon aparatı kullanılmalıdır. Önce gövdeyi tutucuya monte edin, ardından X eksenini yönünde 0,01 tolerans içinde kalibre edin. Lütfen komparatör saati ile ayarlamayı yapın.

When mounting the body for the first time, a special calibration tool should be used for the center height. First mount the shank on the holder, then calibrate it within 0.01 tolerance on the X axis direction. Please make the adjustment with the dial indicator device.

Bei der erstmaligen Montage des Schaftes sollte ein spezielles Kalibrierwerkzeug für die Zentrumhöhe verwendet werden. Montieren Sie zuerst den Schaft am Halter und kalibrieren Sie es dann innerhalb einer Toleranz von 0,01 in Richtung der X-Achse. Bitte benutzen Sie bei der Einstellung eine Messuhr



4 Doğru Kartuş Montajı | Assembly the Right Cartridge | Richtige Wechselkopfmontage

Yandaki şekle bakın:

See the figure on the side:

Siehe die Abbildung auf der Seite:

Sol Yön Takım
Left Hand
Linke Richtung



Sağ Yön Takım
Right Hand
Rechte Richtung



Doğru Uç Seçimi / Choosing the Correct Insert / Auswahl der richtigen Wendeschneidplatte

Doğru kesici ucun seçilmesi, titreşim sönümlemenin genel başarısı üzerinde büyük bir etkiye sahiptir. Kesici ucun işleme stabilitesini artırabilmesinin ana yolu kesme kuvvetlerini en aza indirmektir. Titreşimleri ortadan kaldırmak için aşağıdaki adımlara uymanız gerekir: Mümkünse, her zaman kısa takımları kullanın. Aksi takdirde, titreşimi en aza indirmek için hızlarınızı azaltın.

Choosing the correct insert can have a big influence on the overall success of vibration damping. The main way the insert can improve the machining stability is by minimizing the cutting forces. Following the guidelines below should be your first step to eliminate vibrations: If possible, use it always short drilling tools. Otherwise, reduce your speeds to minimize vibration.

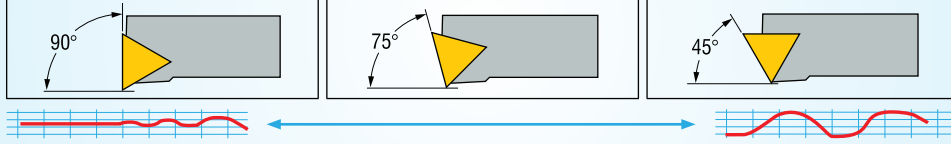
Die Auswahl des richtigen Einsatzes kann einen großen Einfluss auf den Gesamterfolg der Schwingungsdämpfung haben. Die Wendeschneidplatte kann die Bearbeitungsstabilität hauptsächlich durch Minimierung der Schneidkräfte verbessern. Das Befolgen der folgenden Richtlinien sollte Ihr erster Schritt sein, um Vibrationen zu beseitigen:

Verwenden Sie nach Möglichkeit immer kurze Werkzeuge. Reduzieren Sie andernfalls die Geschwindigkeit, um Vibrationen zu minimieren.

A Radyal kuvvetleri minimuma indirmek için mümkün olduğunca 90° 'ye yakın bir giriş açılı takımı seçin.

Choose an entry angle that is as close as possible to 90° to reduce the radial forces to a minimum.

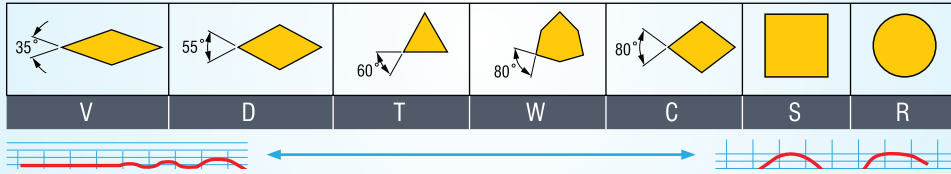
Wählen Sie einen Eintrittswinkel, der so nah wie möglich an 90° liegt, um die Radialkräfte auf ein Minimum zu reduzieren.



B Mümkün olan en küçük kesici uç açısını seçin. Böylece kesme kuvvetleri azalacak ve yüzey kalitesi artacak.

Choose the smallest insert head angle possible. This will reduce overall cutting forces and increase the clearance.

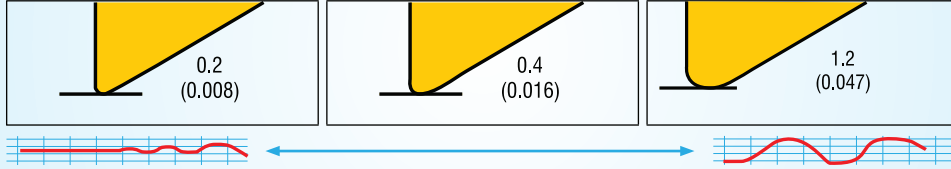
Wählen Sie den kleinstmöglichen Wendeschneidplattenwinkel. Damit wird sich die Gesamtschneidkraft verringern und die Klarheit verbessern.



C Titreşimi azaltmak için olabildiğince en küçük radyüslü ucu seçmelisiniz.

Choose a small nose radius to reduce the cutting forces and to enable machining in a lower depth of cut.

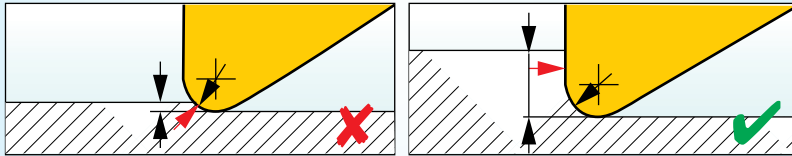
Wählen Sie einen Eintrittswinkel, der so nah wie möglich an 90° liegt, um die Radialkräfte auf ein Minimum zu reduzieren.



D İşleme derinliği (ap) radyüsten daha büyük olmalıdır.

Machining depth (ap) should be larger than the nose radius.

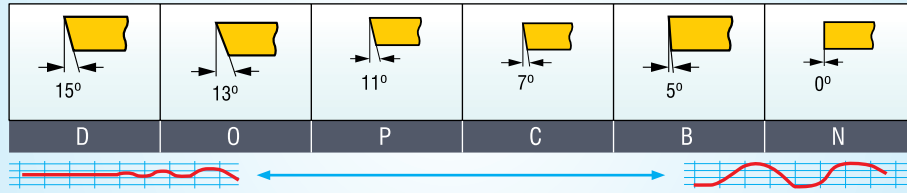
Die Bearbeitungstiefe (ap) sollte größer als der Schneideckenradius sein.



E Kesme kuvvetlerini azaltmak için daha pozitif geometriye sahip bir kesici uç kullanın:

Use an insert with an overall positive geometry to reduce the cutting forces:

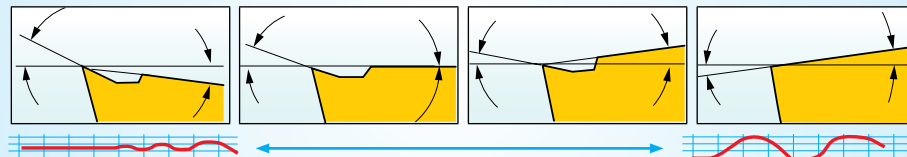
Verwenden Sie eine Wendeschneidplatte mit insgesamt positiver Geometrie, um die Schneidkräfte zu reduzieren:



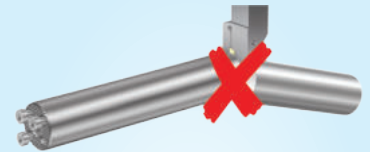
F Pozitif bir üst eğim geometrisi seçin:

Choose a positive top rake geometry:

Benutzen Sie einen positiven, oberen Spanwinkel:



G For-dampened-straight-adaptor:



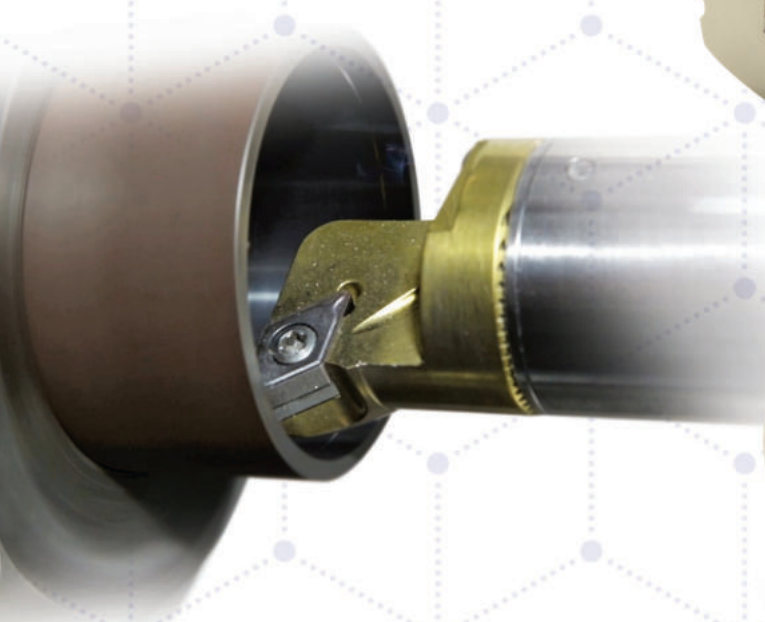
L, kesildikten sonra min uzunluk
L, min length after cut off
L, min Länge nach dem Abscheiden

Ø	Kısa Tasarım Short Design Kurzes Design 4-7x Ø (mm)	Uzun Tasarım Long Design Langes Design 7-10x Ø (mm)
16	100	155
20	125	200
25	155	255
32	190	320
40	240	410
50	305	520
60	380	630



Kesici Uç ve Bağlama Sistemleri
Cutting Inserts and Connection Systems
Trägerwerkzeuge für Wendschneidplatten

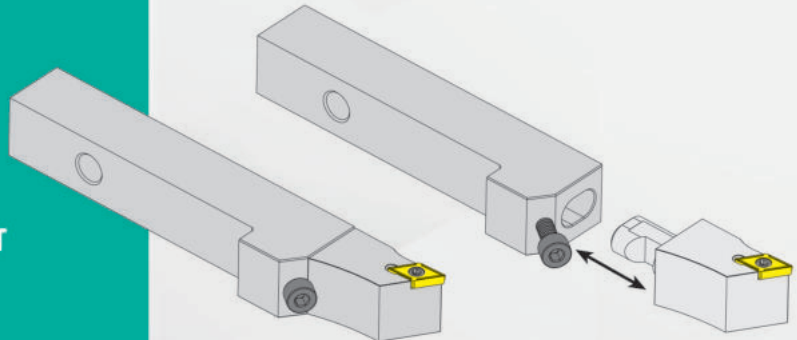
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/VAV Cutting Tools

SEC TOOLS

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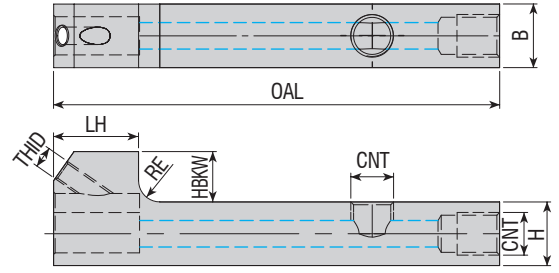
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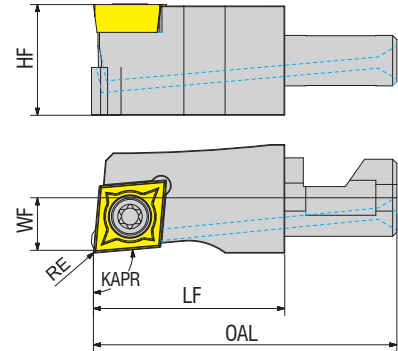
SWISS EASY CHANGE TOOLS

- Takım tutucuyu, bağlama ünitesinden sökme zorunluğu kalmadan hızlıca değiştirin!
- Quick change, without having to remove the tool-holder from the gang !





Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)								Yedek Parçaları / Spare Parts / Ersatzteile		
		H	B	RE	HBKW	LH	OAL	CNT	THID	Sızdırmaz Vida Threaded Pin Gewindestift	Montaj Vidası Mounting Screw Монтажный винт	Anahtar Allen Key Immensschlüssel
VSTB-1212-L84-H	●	12	12	4	9.5	16	84	M8X1X5	M4x0.7	2704-M8X1X5-V	2503-M4x12-C-V	AAL-03-3-V
VSTB-1616-L90-H	●	16	16	1	5.5	16	90	M8X1X5	M4x0.7			



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	HF	WF	RE	LF	OAL		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx-Schlüssel	
SCLCR/L-12X43.3-06-H	●	●	11.8	8	0.2	27.3	43.3	CC.. 0602..	4008-M2.5x6-V	82-T08-V	
SCLCR/L-16X43.3-06-H	●	●	15.8	8	0.2	27.3	43.3				
SCLCR/L-12X43.3-09-H	●	●	11.8	8	0.2	27.3	43.3	CC.. 09T3..	4015-M3.5x8-V	80-T15-V	
SCLCR/L-16X43.3-09-H	●	●	15.8	8	0.2	27.3	43.3				

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

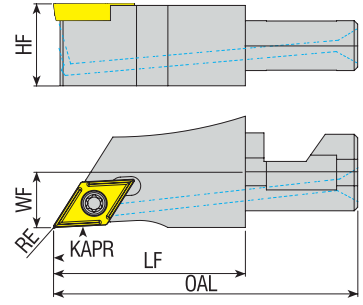
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VSTB-1212-L84-H

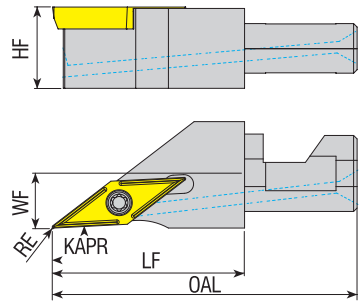


KAPR=93°



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	HF	WF	RE	LF	OAL		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx-Schlüssel
SDJCR/L 12X43.3-07	●	●	11.8	8	0.2	27.3	43.3	DC.. 0702..	4008-M2.5x6-V	82-T08-V
SDJCR/L 12X43.3-07-H	●	●	11.8	8	0.2	27.3	43.3			
SDJCR/L 16X43.3-07	●	●	15.8	8	0.2	27.3	43.3			
SDJCR/L 16X43.3-07-H	●	●	15.8	8	0.2	27.3	43.3			
SDJCR/L 12X43.3-11	●	●	11.8	8	0.2	27.3	43.3	DC.. 11T3..	4015-M3.5x9-V	80-T15-V
SDJCR/L 12X43.3-11-H	●	●	11.8	8	0.2	27.3	43.3			
SDJCR/L 16X43.3-11	●	●	15.8	8	0.2	27.3	43.3			
SDJCR/L 16X43.3-11-H	●	●	15.8	8	0.2	27.3	43.3			

KAPR=93°



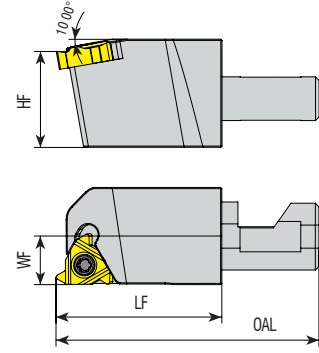
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager		Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)					Kesici Uç Insert Wendeschneidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
	R	L	HF	WF	RE	LF	OAL		Sıkma Vidası Screw Klemmschraube	Tork Anahtar Torx Key Torx-Schlüssel
SVJCR/L 12X43.3-11	●	●	11.8	8	0.2	27.3	43.3	VC.. 1103..	4008-M2.5x6-V	82-T08-V
SVJCR/L 12X43.3-11-H	●	●	11.8	8	0.2	27.3	43.3			
SVJCR/L 16X43.3-11	●	●	15.8	8	0.2	27.3	43.3			
SVJCR/L 16X43.3-11-H	●	●	15.8	8	0.2	27.3	43.3			

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 SDJCR/L 12X43.3-07



Takım Kodu
Ordering Code
Bestell-Bezeichnung

Stok
Stock
Lager

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

Kesici Uç
Insert
Wendeschneidplatte

Yedek Parçaları / Spare Parts / Ersatzteile

Sıkma Vidası
Screw
Klemmschraube

Sağ Altlık
Right Shim
U-Plate for WSP rechts

Sol Altlık
Left Shim
U-Plate for WSP links

Altlık Vidası
Shim Screw
Schraube für Unterlage

Altlık Vidası Pulu
Shim Screw Ring
Schraube für Unterlagerung

Tork Anahtar
Torx Key
Torx-Schlüssel

R L OAL LF WF HF



SER/L-12x43.3-11

● ●

43.3

27.3

8

11.8

11 ER/EL

4008-M2.5x6-V

-

-

-

-

82-T08-V

SER/L-16x43.3-11

● ●

43.3

27.3

8

15.8

16 ER/EL

1710-U5-40x12.2-V

ATS-16E-V

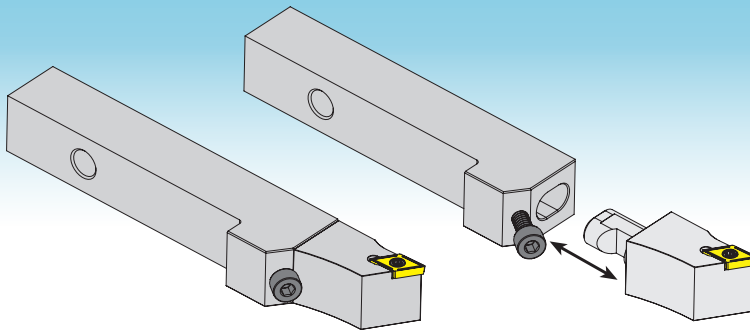
ATS-16I-V

AAV-11-U5-40x4.5-V

ABPL-03-V

82-T10-V

Sipariş Örneği/Ordering Example/Bestellbeispiel 1 ad./pcs./stück SER-12x43.3-11



Takım tutucuyu, bağlama ünitesinden sökme zorunluğu kalmadan hızlıca değiştirin!

Quick change, without having to remove the tool-holder from the gang !

Es ist nicht nötig, den Grundhalter vom Werkzeugträger zu entfernen schnelle wechsel möglich!

Makina dışında ön ayar yapmak mümkün.

Presetting is possible outside of the machine.

Voreinstellung ausserhalb der Maschine ist möglich.

Çok hassas montaj.

Ultra precise fitting.

Ultra-präziser Montage.

Rijit sabitleme.

Rigid fixation.

Starre Befestigung.

Takım tutucu bölümü: 12x12 ve 16x16 mm.

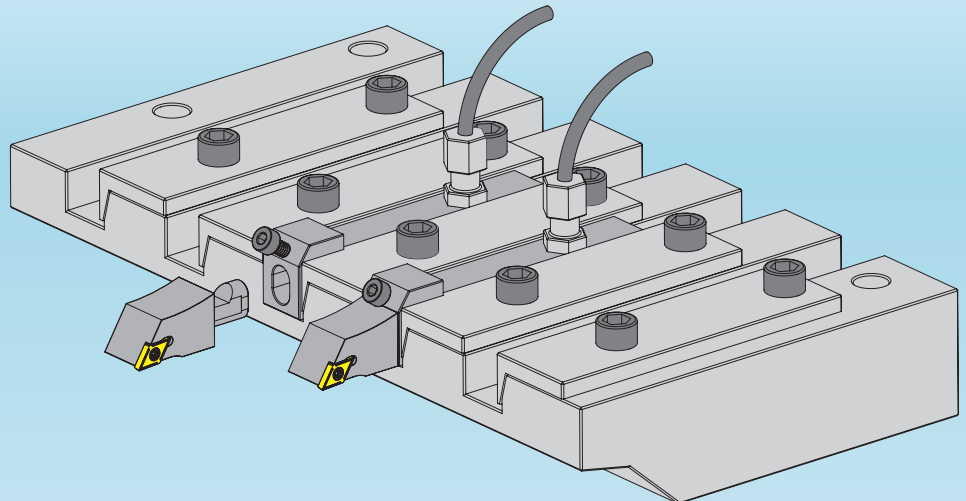
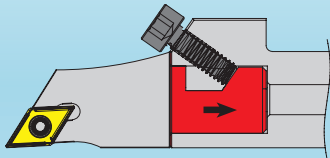
Tool-holder section : 12x12 and 16x16 mm.

Grundhalter: 12x12 und 16x16mm.

Sağ ve sol uçlar kullanılır.

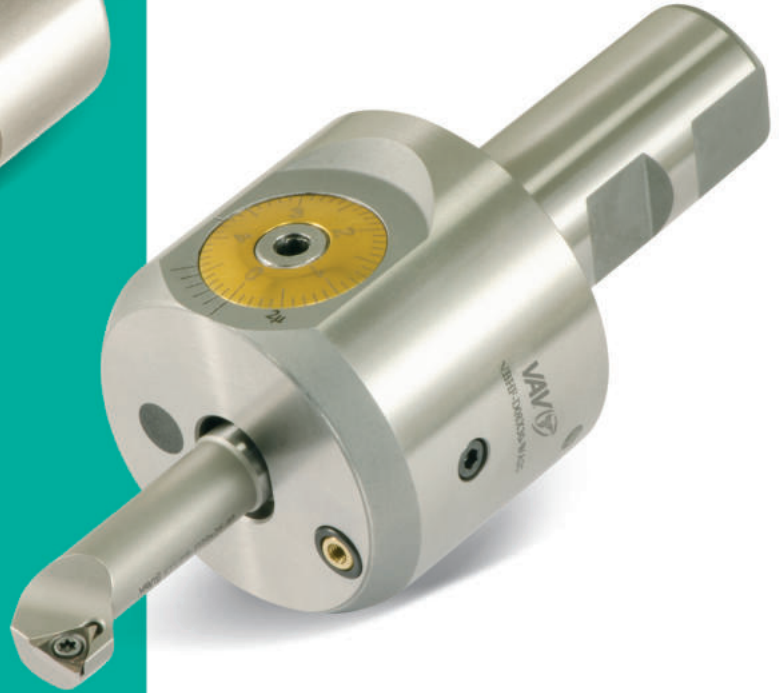
Left and right inserts available.

Links und Rechts WSP verwendbar.



BARALAR

AYARLI DELİK İŞLEME BARALARI
ADJUSTABLE BORING HEADS
EINSTELLBARE SPINDELKÖPFE



VAV
1

BH
2

R
3

- D18x22
4

W16
5

- L90
6

- CC06
7

2 Kesiş Stili / Cutter Style / Werkzeugtyp

BH : Delik İşleme / Boring Head
Spindelkopf

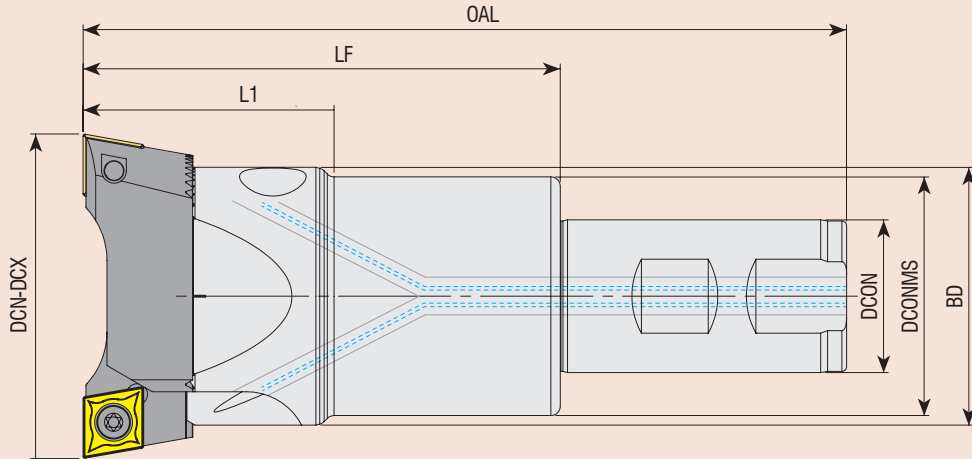
3 İşlem Tipi / Cutter Type / Einsatzgebiet

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

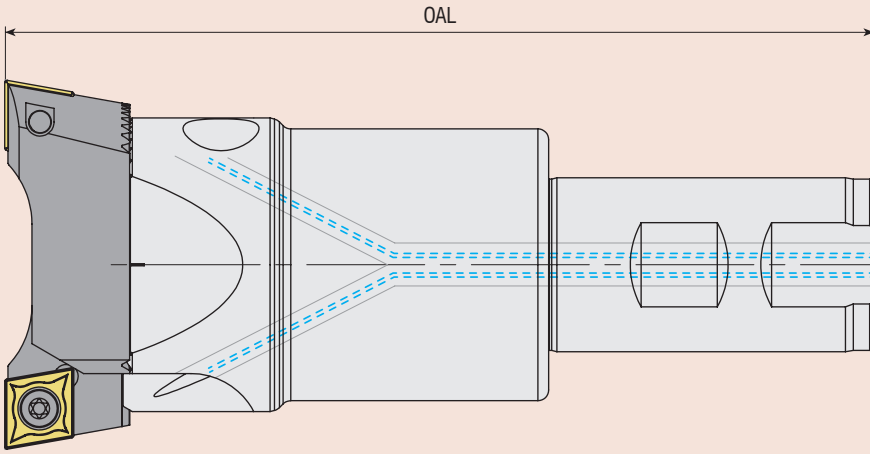
5 Montaj Formu / Assembly Form / Schaftform

W : Weldon

4 Ölçü Aralığı / Boring Range / Bohrbereich

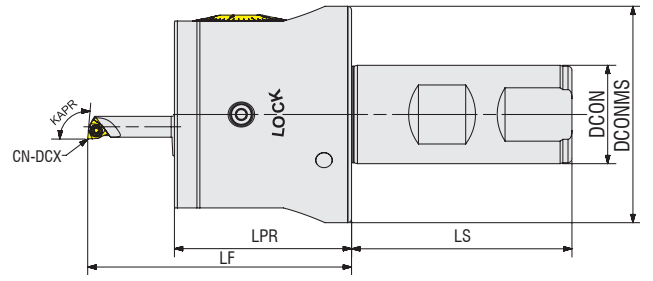


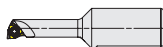
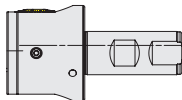
6 Takım Boyu / Tool Length / Werkzeuglänge



7 Kesici Uç / Insert / Wendeschneidplatte

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



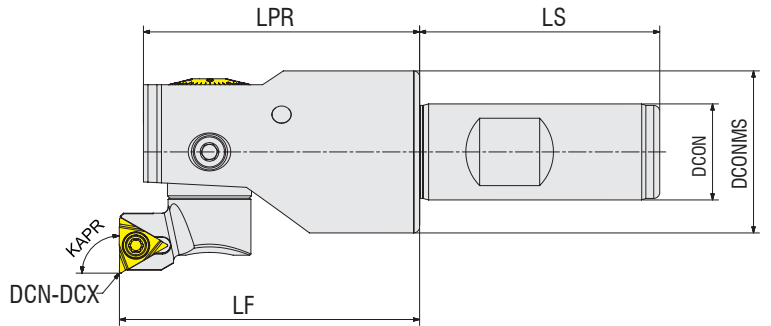
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)									Kartuş Cartridge Kurzdrehhalter	Kesici Uç Insert Wendeschneidplatte	Bara Gövde Takım Kodu Boring Head Body Code Trägerwerkzeug-Bezeichnung	
		Ölçü Aralığı Boring Range Bohrbereich DCN-DCX	LF	LPR	LS	DCON	DCONMS	KAPR	DCN	DCX				
SET-I-VBHF-D06X30-WA25		06-30	67	45	56	25	55	95°	6	10	SWLCR-D06X10-22	WCGT 0201..L	VBHF-D06X30-WA25	
			75						8	14	SWLCR-D08X14-30			
			85						93°	12	18	STUPR-D12X18-40		TPGX 0902..L
										16	22	STUPR-D16X22-40		
										20	26	STUPR-D20X26-40		
										24	30	STUPR-D24X30-50		
										95				

Hassas bara setlerimiz 0,2 veya 0,4 radüslü uçlardan oluşmaktadır. Siparişinizle birlikte uç detayını satış temsilcisi ile paylaşmanızı rica ederiz. Sipariş örneği: WCGT020102L/WCGT020104L

Our fine boring sets consist of inserts with 0.2 or 0.4 radius. We kindly ask you to share the insert radius details with the sales representative with your order.

Ordering Example:WCGT020102L/WCGT020104L

Unsere Einstellbare Bohr Set bestehen aus Wendeschneidplatten mit einem Radius von 0,2 oder 0,4. Wir bitten Sie, die Angaben zum Wendeschneidplattenradius bei Ihrer Bestellung dem Vertriebsmitarbeiter mitzuteilen. "Bestellbeispiel:WCGT020102L/WCGT020104L



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Ölçü Aralığı Boring Range Bohrbereich DCN-DCX	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)									Kartuş Cartridge Kurzrehhalter	Kesici Uç Insert Wendeschneidplatte	Uzatma Adaptörü Extension Längerungsadapter	Bara Gövde Takım Kodu Boring Head Body Code Trägerwerkzeug-Bezeichnung
			LF	LPR	LS	DCON	DCONMS	KAPR	DCN	DCX					
SET-I-VBHF-D29X40-WA16	●	29-40	50	46	40	16	27		29	35	STFPR-D29x35			-	VBHF-D29X40-WA16
									34	40	STFPR-D34x40				
SET-I-VBHF-D39X54-WA20	●	39-54	60	55	50	20	36		39	47	STFPR-D39x47				VBHF-D39X54-WA20
									46	54	STFPR-D46x54				
SET-I-VBHF-D52X80-WA25	●	52-80	70	65	56	25	48		52	68	STFPR-D52x68				VBHF-D52X80-WA25
									64	80	STFPR-D64x80				
SET-I-VBHF-D78X170-WA32	●	78-170	83	77	60	32	72		78	98	STFPR-D78x98			VEA-114x134	VBHF-D78X170-WA32
									96	116	STFPR-D96x116			VEA-132x152	

SET-I-VBHF-D78X170-WA32 takım uzatma adaptörü kullanılarak 117-170 ölçü aralığında operasyon yapmaktadır.

SET-I-VBHF-D78X170-WA32 operates in the 117-170 size range by using the extension adapter.

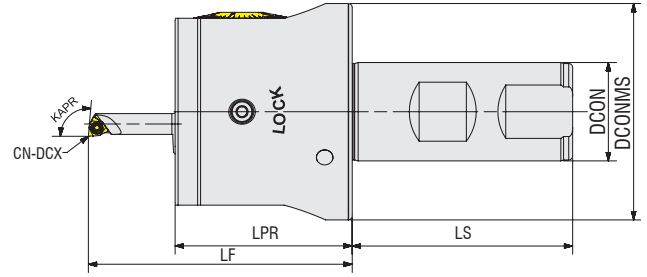
SET-I-VBHF-D78X170-WA32 funktioniert im Größenbereich 117–170 durch Verwendung des Verlängerungsadapters.

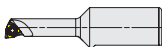
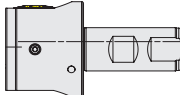
Hassas bara setlerimiz 0,2 veya 0,4 radüslü uçlardan oluşmaktadır. Siparişinizle birlikte uç detayını satış temsilcisi ile paylaşmanızı rica ederiz. Sipariş örneği: WCGT020102L/WCGT020104L

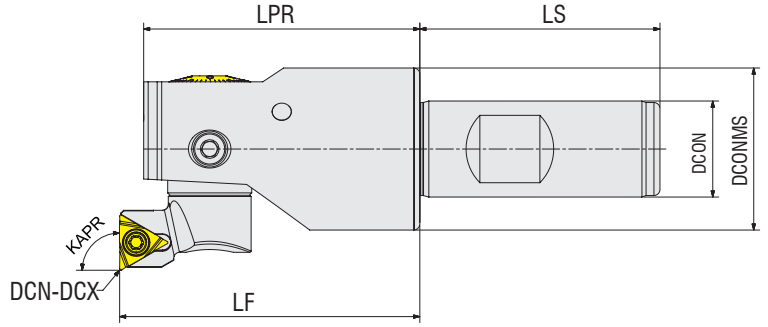
Our fine boring sets consist of inserts with 0.2 or 0.4 radius. We kindly ask you to share the insert radius details with the sales representative with your order

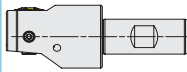
Ordering Example:WCGT020102L/WCGT020104L

Unsere Einstellbare Bohr Set bestehen aus Wendeschneidplatten mit einem Radius von 0,2 oder 0,4. Wir bitten Sie, die Angaben zum Wendeschneidplattenradius bei Ihrer Bestellung dem Vertriebsmitarbeiter mitzuteilen. Bestellbeispiel:WCGT020102L/WCGT020104L



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)									Kartuş Cartridge Kurzdrehalter	Kesici Uç Insert Wendeschneidplatte	Bara Gövde Takım Kodu Boring Head Body Code Trägerwerkzeug-Bezeichnung	
		Ölçü Aralığı Boring Range Bohrbereich DCN-DCX	LF	LPR	LS	DCON	DCONMS	KAPR	DCN	DCX				
SET-VBHF-D06X30-WA25		06-30	67						95°	6	10	SWLCR-D06X10-22	WCGT 0201..L	VBHF-D06X30-WA25
			75							8	14	SWLCR-D08X14-30		
			85	45	56	25	55	93°	12	18	STUPR-D12X18-40	TPGX 0902..L		
									16	22	STUPR-D16X22-40			
									20	26	STUPR-D20X26-40			
									24	30	STUPR-D24X30-50			
	95													



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)										Kartuş Cartridge Kurzdrehalter	Kesici Uç Insert Wendeschneidplatte	Uzatma Adaptörü Extension Längungsadapter	Bara Gövde Takım Kodu Boring Head Body Code Trägerwerkzeug-Bezeichnung
		Ölçü Aralığı Boring Range Bohrbereich DCN-DCX	LF	LPR	LS	DCON	DCONMS	KAPR	DCN	DCX					
SET-VBHF-D29X40-WA16	●	29-40	50	46	40	16	27	90°	29	35	STFPR-D29x35	TPGX 0902..L	-	VBHF-D29X40-WA16	
									34	40	STFPR-D34x40				
SET-VBHF-D39X54-WA20	●	39-54	60	55	50	20	36		39	47	STFPR-D39x47			VBHF-D39X54-WA20	
									46	54	STFPR-D46x54				
SET-VBHF-D52X80-WA25	●	52-80	70	65	56	25	48		52	68	STFPR-D52x68			VBHF-D52X80-WA25	
									64	80	STFPR-D64x80				
SET-VBHF-D78X170-WA32	●	78-170	83	77	60	32	72	78	98	STFPR-D78x98		VEA-114x134	VBHF-D78X170-WA32		
								96	116	STFPR-D96x116		VEA-132x152			

SET-VBHF-D78X170-WA32 takım uzatma adaptörü kullanılarak 117-170 ölçü aralığında operasyon yapmaktadır.
SET-VBHF-D78X170-WA32 operates in the 117-170 size range by using the extension adapter
SET-VBHF-D78X170-WA32 funktioniert im Größenbereich 117-170 durch Verwendung des Verlängerungsadapters.

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

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

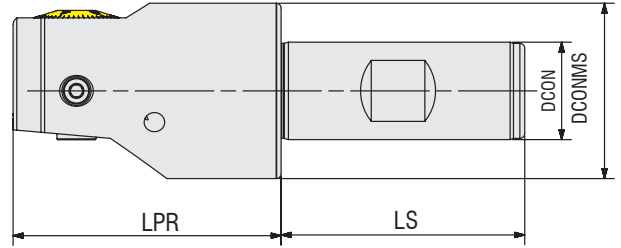
Sipariş Örneği/Ordering Example/Bestellbeispiel
1 ad./pcs./stück SET-VBHF-D06X30-WA25



(figure.1)



(figure.2)



Takım Kodu Ordering Code Bestell-Bezeichnung		Stok Stock Lager	Ölçü Aralığı Boring Range Bohrbereich DCN-DCX	LPR	LS	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)		Yedek Parçaları / Spare Parts / Ersatzteile		
						DCON	DCONMS	Anahtar Allen Key Innensechskantschlüssel		
VBHF-D06X30-WA25	(figure.1)	●	06-30	45	56	25	55	AAL-05-4-V		
VBHF-D29X40-WA16	(figure.2)	●	29-40	46	40	16	27	AAL-01-2-V	AAL-02-2.5-V	
VBHF-D39X54-WA20	(figure.2)	●	39-54	55	50	20	36	AAL-02-2.5-V	AAL-03-3-V	AAL-05-4-V
VBHF-D52X80-WA25	(figure.2)	●	52-80	65	56	25	48	AAL-05-4-V	AAL-07-5-V	
VBHF-D78X170-WA32	(figure.2)	●	78-170	77	60	32	72	AAL-07-5-V	AAL-08-6-V	

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

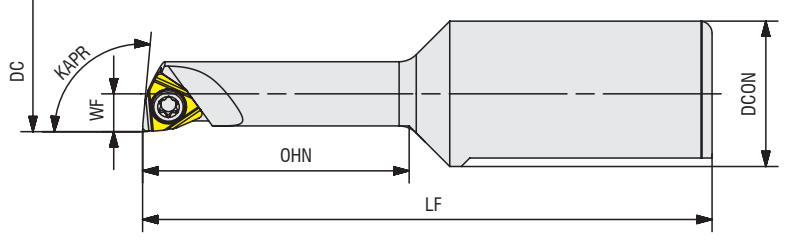
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

Siparişte, gövde ve kartuş set olarak verilecektir. / When ordered, body and cartridge will be sent as set.

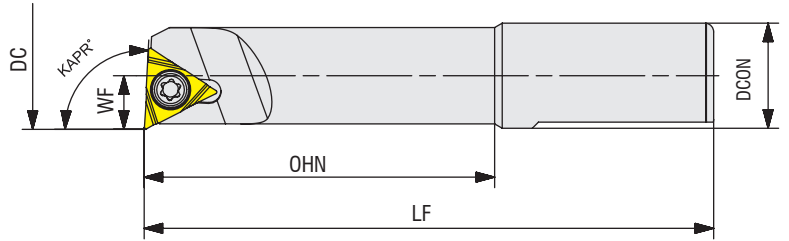
Bei Bestellung werden Körper und Kassetten als Set geliefert.

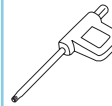
Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VBHF-D06X30-WA25



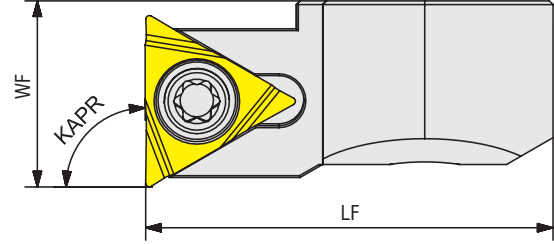
Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)						Kesici Uç Insert Wendescheidplatte	Yedek Parçaları / Spare Parts / Ersatzteile	
		DC	WF	KAPR	LF	OHN	DCON		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
SWLCR-D06X10-22	●	6	3	95°	47	22	12	WCGT 020104L	3006-M2x3.3-V	82-T06-V
SWLCR-D08X14-30	●	8	4		55	30				



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		
		DC	WF	KAPR	LF	OHN	DCON		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel	
		DC	WF	KAPR	LF	OHN	DCON				
STUPR-D12X18-40	●	12	6	93°	65	40	12	TPGX 090202L	4008-M2.5x4.5-V	82-T08-V	
STUPR-D16X22-40	●	16	8						4008-M2.5x6-V		
STUPR-D20X26-40	●	20	10								
STUPR-D24X30-50	●	24	12								

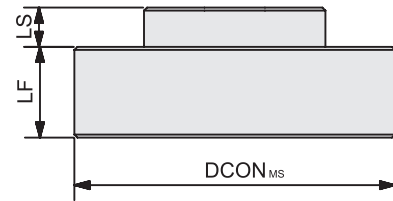
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage
Siparişte, gövde ve kartuş set olarak verilecektir. / When ordered, body and cartridge will be sent as set.
Bei Bestellung werden Körper und Kassetten als Set geliefert.

Sipariş Örneği/Ordering Example/Bestellbeispiel
1 ad./pcs./stück SWLCR-D06X10-22



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	
		WF	KAPR	LF		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
STFPR-D29x35	●	10	90°	21.90	TPGX 090202L	4008-M2.5x6-V	82-T08-V
STFPR-D34x40	●	12.50		21.90			
STFPR-D39x47	●	12		26.90			
STFPR-D46x54	●	15.50		26.90			
STFPR-D52x68	●	14		34.90			
STFPR-D64x80	●	20		34.90			
STFPR-D78x98	●	20		44.90			
STFPR-D96x116	●	29		44.90			

HASSAS BARA UZATMA ADAPTÖRÜ
EXTENSION FOR FINE BORING TOOLS
PRÄZISIONSBUSVERLÄNGERUNGSADAPTER

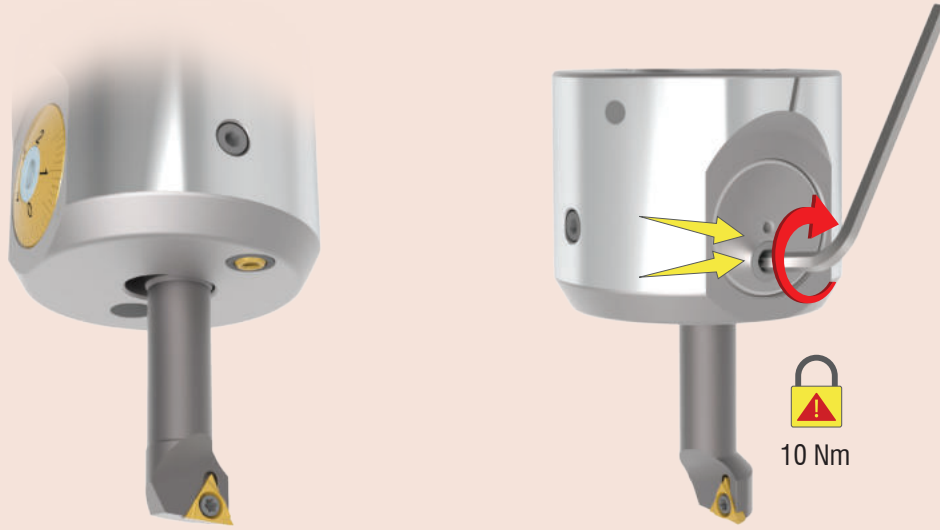


Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Dimensioni (mm) Dimension (mm) Abmessung (mm)		
		DCON	LF	LS
VEA-114x134	●	31.80	12.90	9
VEA-132x152	●	31.80	21.90	18

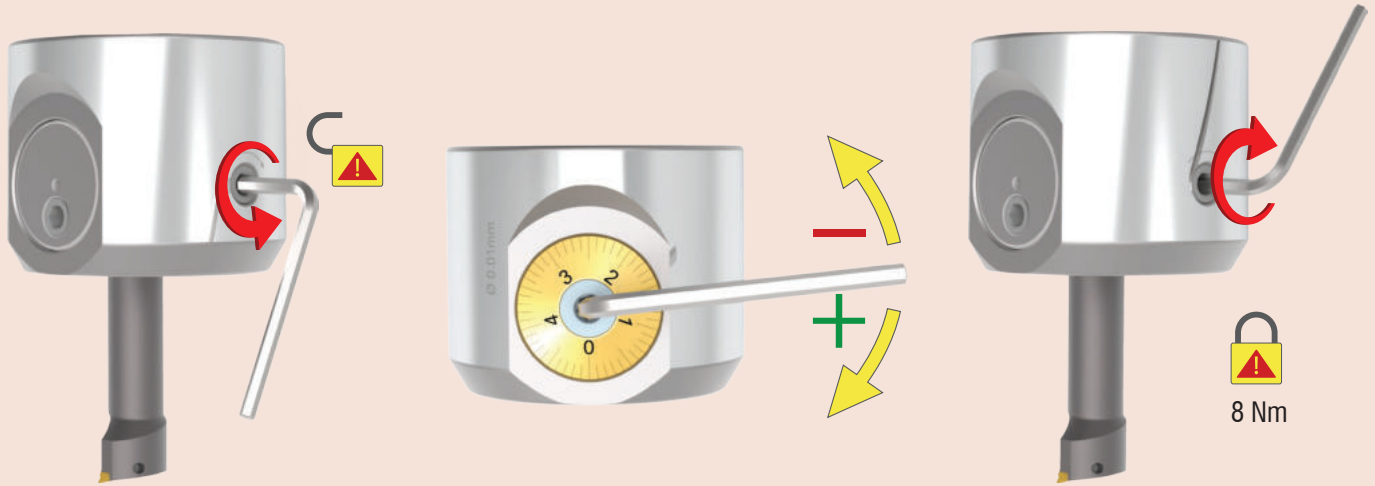
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage
Siparişte, gövde ve kartuş set olarak verilecektir. / When ordered, body and cartridge will be sent as set.
Bei Bestellung werden Körper und Kassetten als Set geliefert.

Sipariş Örneği/Ordering Example/Bestellbeispiel
1 ad./pcs./stück STFPR-D29x35

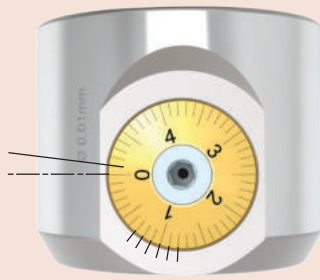
Kartuşların Montajı / Assembling Boring Bar / Kartuschen Montage



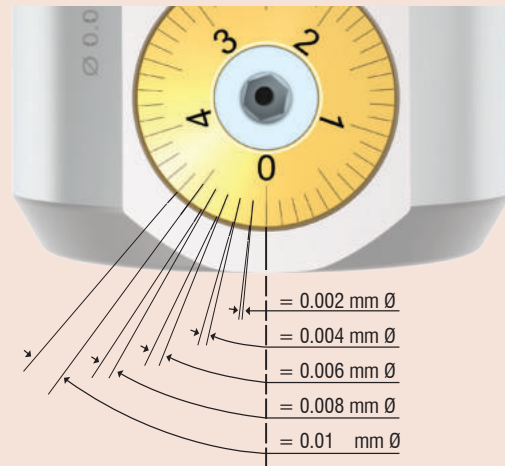
Çap Ayarı / Diameter Adjustment / Umfangeinstellung

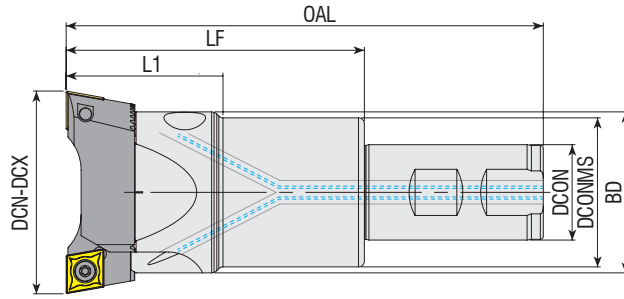


Ölçek / Scale - Vernier / Messapparat

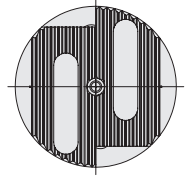


$\Delta \parallel \Delta = 0,01 \text{ mm } \emptyset$





DIN 1835



Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Takım Ölçüleri (mm) Dimension (mm) Abmessung (mm)							Kartuş Cartridge Kurzdrehhalter	Bara Gövde Takım Kodu Boring Head Body Code Trägerwerkzeug-Bezeichnung
	Ölçü Aralığı Boring Range Durchmesser DCN-DCX	DCON	DCONMS	BD	OAL	LF	L1			
VBHR-D18x22-W16-L90-CC06	● 18-22	16	-	-	90	42	-	VK.. 18-22		VBHRS-D16x42-W16-L90
VBHR-D18x22-W16-L150-CC06	● 18-22	16	-	-	150	102	-			VBHRS-D16x102-W16-L150
VBHR-D18x22-W16-L200-CC06	● 18-22	16	-	-	200	152	-			VBHRS-D16x152-W16-L200
VBHR-D22x28-W20-L100-CC06	● 22-28	20	-	-	100	50	-	VK.. 22-28		VBHRS-D20x50-W20-L100
VBHR-D22x28-W20-L150-CC06	● 22-28	20	-	-	150	100	-			VBHRS-D20x100-W20-L150
VBHR-D22x28-W20-L200-CC06	● 22-28	20	-	-	200	150	-			VBHRS-D20x150-W20-L200
VBHR-D28x38-W20-L110-CC06	● 28-38	20	25	-	110	60	-	VK.. 28-38		VBHRS-D25x60-W20-L110
VBHR-D28x38-W20-L160-CC06	● 28-38	20	25	-	160	110	-			VBHRS-D25x110-W20-L160
VBHR-D28x38-W20-L230-CC06	● 28-38	20	25	-	230	180	-			VBHRS-D25x180-W20-L230
VBHR-D36x50-W25-L120-CC06	● 36-50	25	32	-	120	64	-	VK.. 36-50		VBHRS-D32x64-W25-L120
VBHR-D36x50-W25-L170-CC06	● 36-50	25	32	-	170	114	-			VBHRS-D32x114-W25-L170
VBHR-D36x50-W25-L250-CC06	● 36-50	25	32	-	250	194	-			VBHRS-D32x194-W25-L250
VBHR-D36x50-W25-L120-CC09	● 36-50	25	32	-	120	64	-	VK.. 36-50-09		VBHRS-D32x64-W25-L120
VBHR-D36x50-W25-L170-CC09	● 36-50	25	32	-	170	114	-			VBHRS-D32x114-W25-L170
VBHR-D36x50-W25-L250-CC09	● 36-50	25	32	-	250	194	-			VBHRS-D32x194-W25-L250
VBHR-D50x68-W32-L140-CC09	● 50-68	32	40	-	140	80	-	VK.. 50-68		VBHRS-D40x80-W32-L140
VBHR-D50x68-W32-L200-CC09	● 50-68	32	40	-	200	140	-			VBHRS-D40x140-W32-L200
VBHR-D50x68-W32-L280-CC09	● 50-68	32	40	-	280	220	-			VBHRS-D40x220-W32-L280
VBHR-D50x68-W32-L140-CC12	● 50-68	32	40	-	140	80	-	VK.. 50-68-12		VBHRS-D40x80-W32-L140
VBHR-D50x68-W32-L200-CC12	● 50-68	32	40	-	200	140	-			VBHRS-D40x140-W32-L200
VBHR-D50x68-W32-L280-CC12	● 50-68	32	40	-	280	220	-			VBHRS-D40x220-W32-L280
VBHR-D68x90-W32-L160-CC12	● 68-90	32	50	54	160	100	50	VK.. 68-90		VBHRS-D50x100-W32-L160
VBHR-D68x90-W32-L210-CC12	● 68-90	32	50	54	210	150	50			VBHRS-D50x150-W32-L210
VBHR-D68x90-W32-L280-CC12	● 68-90	32	50	54	280	220	50			VBHRS-D50x220-W32-L280
VBHR-D90x120-W32-L140-CC12	● 90-120	32	63	72	140	80	63	VK.. 90-120		VBHRS-D63x80-W32-L140
VBHR-D90x120-W40-L200-CC12	● 90-120	40	63	72	200	130	63			VBHRS-D63x130-W40-L200
VBHR-D90x120-W40-L300-CC12	● 90-120	40	63	72	300	230	63			VBHRS-D63x230-W40-L300
VBHR-D120x160-W40-L210-CC12	● 120-160	40	80	95	210	140	75	VK.. 120-160		VBHRS-D80x140-W40-L210
VBHR-D120x160-W40-L300-CC12	● 120-160	40	80	95	300	230	75			VBHRS-D80x230-W40-L300
VBHR-D160x200-W40-L210-B-CC12	● 160-200	40	80	95	210	140	75	VK.. 160-200		VBHRS-D80x140-W40-L210
VBHR-D160x200-W40-L300-B-CC12	● 160-200	40	80	95	300	230	75			VBHRS-D80x230-W40-L300

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

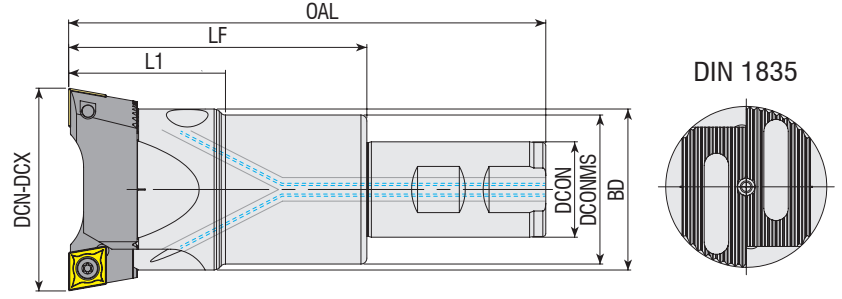
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

Siparişte, gövde ve kartuş set olarak verilecektir. / When ordered, body and cartridge will be sent as set.

Bei Bestellung werden Körper und Kassetten als Set geliefert.

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VBHR-D18x22-W16-L90-CC06



DIN 1835

Takım Kodu
Ordering Code
Bestell-Bezeichnung

Stok
Stock
Lager

Ölçü Aralığı
Boring Range
Durchmesser
DCN-DCX

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

DCON DCONMS BD OAL LF L1

Yedek Parçaları / Spare Parts / Ersatzteile

Montaj Vidası
Mounting Screw
Befestigungsschraube
Montaj Vida Anahtarı
Mounting Screw Key
Innenschlüssel
Pabuç
Clamp
Spannspratze
Ayar Vidası
Adjusting Screw
Einstellschraube
Ayar Vida Anahtarı
Allen Key
Innenschlüssel-Schlüssel

Takım Kodu Ordering Code Bestell-Bezeichnung	Stok Stock Lager	Ölçü Aralığı Boring Range Durchmesser DCN-DCX	DCON	DCONMS	BD	OAL	LF	L1	Montaj Vidası Mounting Screw Befestigungsschraube	Montaj Vida Anahtarı Mounting Screw Key Innenschlüssel	Pabuç Clamp Spannspratze	Ayar Vidası Adjusting Screw Einstellschraube	Ayar Vida Anahtarı Allen Key Innenschlüssel-Schlüssel
VBHRS-D16x42-W16-L90	●	18-22	16	-	-	90	42	-	2525-M3x14	AAL-02-2.5	ABKS-D16	2715-M3x4	
VBHRS-D16x102-W16-L150	●	18-22	16	-	-	150	102	-					
VBHRS-D16x152-W16-L200	●	18-22	16	-	-	200	152	-					
VBHRS-D20x50-W20-L100	●	22-28	20	-	-	100	50	-					
VBHRS-D20x100-W20-L150	●	22-28	20	-	-	150	100	-	2503-M4x15	AAL-03-3	ABKS-D20	2715-M3x5	AAL-09-1.5
VBHRS-D20x150-W20-L200	●	22-28	20	-	-	200	150	-					
VBHRS-D25x60-W20-L110	●	28-38	20	25	-	110	60	-					
VBHRS-D25x110-W20-L160	●	28-38	20	25	-	160	110	-	2503-M4x20	AAL-03-3	ABKS-D25	2715-M3x8	
VBHRS-D25x180-W20-L230	●	28-38	20	25	-	230	180	-					
VBHRS-D32x64-W25-L120	●	36-50	25	32	-	120	64	-					
VBHRS-D32x114-W25-L170	●	36-50	25	32	-	170	114	-	2504-M5x25	AAL-05-4	ABKS-D32	2702-M4x12	AAL-01-2
VBHRS-D32x194-W25-L250	●	36-50	25	32	-	250	194	-					
VBHRS-D40x80-W32-L140	●	50-68	32	40	-	140	80	-					
VBHRS-D40x140-W32-L200	●	50-68	32	40	-	200	140	-	2505-M6x30	AAL-07-5	ABKS-D40	2725-M5x16	
VBHRS-D40x220-W32-L280	●	50-68	32	40	-	280	220	-					AAL-02-2.5
VBHRS-D50x100-W32-L160	●	68-90	32	50	54	160	100	50					
VBHRS-D50x150-W32-L210	●	68-90	32	50	54	210	150	50	2506-M8x35	AAL-08-6	ABKS-D50	2725-M5x12	
VBHRS-D50x220-W32-L280	●	68-90	32	50	54	280	220	50					
VBHRS-D63x80-W32-L140	●	90-120	32	63	72	140	80	63					
VBHRS-D63x130-W40-L200	●	90-120	40	63	72	200	130	63	2508-M10x40	AAL-11-8	ABKS-D63	2703-M6x16	AAL-03-3
VBHRS-D63x230-W40-L300	●	90-120	40	63	72	300	230	63					
VBHRS-D80x140-W40-L210	●	120-160	40	80	95	210	140	75					
VBHRS-D80x230-W40-L300	●	120-160	40	80	95	300	230	75	2510-M12x40	AAL-12-10	ABKS-D80	2704-M8x25	AAL-05-4

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

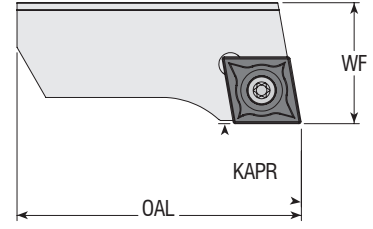
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück VBHRS-D16x42-W16-L90



KAPR=90°



Takım Kodu
Ordering Code
Bestell-Bezeichnung

Stok
Stock
Lager

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

Ölçü Aralığı
Boring Range

WF

OAL

Kesici Uç
Insert
Wendeschneidplatte



Yedek Parçaları / Spare Parts / Ersatzteile

Sıkma Vidası
Screw
Schraube



Tork Anahtar
Torx Key
Torx-Schlüssel



VKSR 18-22



18-22

9

15

CC.T 0602..

4008-M2.5x6

82-T08

VKSR 22-28



22-28

10

19

VKSR 28-38



28-38

13

23

VKSR 36-50



36-50

16

32

VKSR 36-50-09



36-50

16

32

VKSR 50-68



50-68

20

40

VKSR 50-68-12



50-68

20

40

VKSR 68-90



68-90

23

54

VKSR 90-120



90-120

28

70

VKSR 120-160



120-160

32

95

VKSR 160-200



160-200

32

120

CC.T 09T3..

4015-M3.5x8

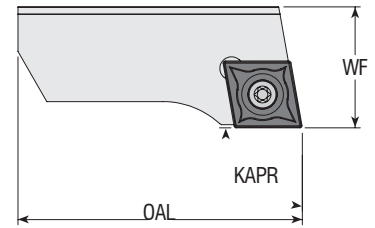
80-T15

CC.T 1204..

1020-M5x11

80-T20

KAPR=90°



Takım Kodu
Ordering Code
Bestell-Bezeichnung

Stok
Stock
Lager

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

Ölçü Aralığı
Boring Range

WF

OAL

Kesici Uç
Insert
Wendeschneidplatte



Yedek Parçaları / Spare Parts / Ersatzteile

Sıkma Vidası
Screw
Schraube



Tork Anahtar
Torx Key
Torx-Schlüssel



VKCR 28-38



28-38

12.8

23

CC.T 0602..

4008-M2.5x6

82-T08

VKCR 36-50



36-50

15.8

32

VKCR 36-50-09



36-50

15.8

32

VKCR 50-68



50-68

19.7

40

VKCR 50-68-12



50-68

19.7

40

VKCR 68-90



68-90

22.7

54

VKCR 90-120



90-120

27.7

70

VKCR 120-160



120-160

31.7

95

VKCR 160-200



160-200

31.7

120

CC.T 09T3..

4015-M3.5x8

80-T15

CC.T 1204..

1020-M5x11

80-T20

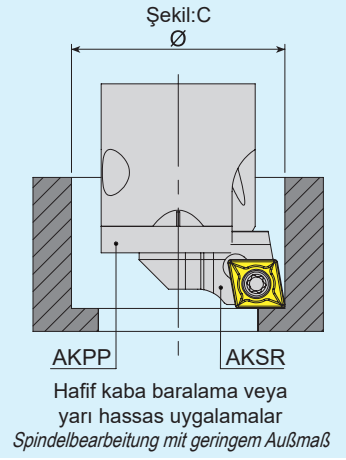
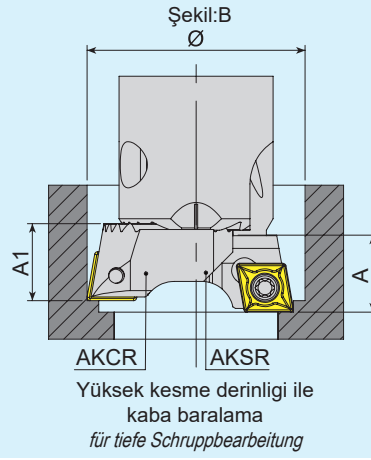
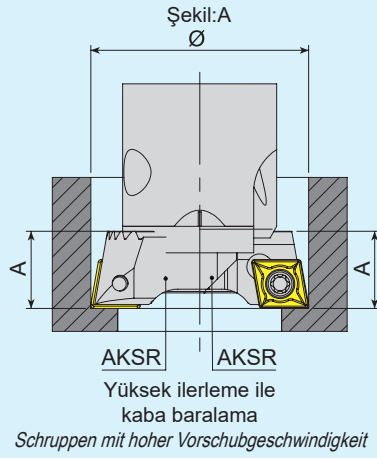
R: Sağ / Right / Rechts/ L: Sol / Left / Links

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

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

Sipariş Örneği/Ordering Example/Bestellbeispiel

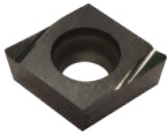
1 ad./pcs./stück AKSR 18-22



1. Kesici kenarların radyal ayarı, takım ölçme ekipmanı ile yapılmalıdır.
2. İki uçlu baralama takımı, ağır talaş kaldırma işlemini içeren kaba baralama işlemleri içindir. Çift uçlu baralama takımı ile:
 - Yüksek ilerleme oranında kaba baralama işlemleri için, aynı düzlemdeki iki AKSR kartuşu, aynı radyal mesafeye ayarlanır. (Şekil A)
 - Aynı düzlemde olmayan bir AKCR kartuşu ve bir AKSR kartuşu yüksek derinlikte kaba baralama işlemleri için kullanılır. (Şekil B)
 - i. Kaba baralama işleminde, alınacak paso miktarı tam olarak ikiye bölünüp, düzgün bir kesim sağlanmış olur, ancak bu durumda tur başına ilerleme tek ağız olarak hesaplanmalıdır. ($f=f_1$)
 - ii. Hassas baralama işleminde, alınacak paso miktarı AKSR kartuş için ara kaba olarak ve AKCR kartuş için hassas bara olarak çaplar ayarlanır ve bu sayede bazı ara kaba işleme ihtiyaç kalmaz.
3. Tek kartuşlu baralama takımları, normal talaş kaldırma işlemini içeren kaba ve hassas baralama işlemleri içindir. Dişleri koruma plakası, AKPP daima kullanılmalıdır. (Şekil C)

1. Radial setting of the cutting edges should be carried out with tool presetting equipment.
2. Boring bars fitted with two insert pockets are for roughing operations involving heavy chip removal. The double-insert boring bars include:
 - Two AKSR cartridges on the same plane with two cutting edges set at identical radial distance for high feed rate roughing operations. (fig. A)
 - An AKCR cartridge and an AKSR cartridge not on the same plane for high-debth roughing operations. (fig. B)
 - i. With the rough boring operation, this allows double the cutting width, using only a single feed rate. ($f=f_1$)
 - ii. With the finish boring operation, the cutting width is divided so that some of the intermediate machining can be omitted.
3. Boring bars fitted with a single cartridge are for roughing and finishing operations involving normal chip removal. The serrated surface protection plate AKPP should always be used (fig. C)

1. Die radiale Einstellung der Schneiden sollte auf einem Voreinstellgerät durchgeführt werden.
2. Spindelköpfe, die mit 2 Kassetten bestückt sind, werden für die Schrubbearbeitung eingesetzt. Doppelte Kassetten beinhalten:
 - Für die Schrubbearbeitung mit hoher Vorschubgeschwindigkeit sind zwei AKSR-Kassetten in derselben Höhe auf denselben radialen Abstand einzustellen (Abbildung A)
 - Eine AKCR-Kassette und eine AKSR-Kassette, die nicht in derselben Ebene liegen, werden für tiefe Schrubbearbeitungen eingesetzt.
 - i. Bei einer Schrubbearbeitung kann die Schnitttiefe verdoppelt werden. Bitte nur eine Schneide zur Vorschubberechnung verwenden ($f=f_1$).
 - ii. Bei der Schlichtbearbeitung wird die Schnitttiefe halbiert. Weitere zusätzliche Bearbeitungsdurchgänge werden überflüssig.
3. Bohrköpfe mit einer einzelnen Kassette können sowohl für Schlicht- als auch für Schrubb-Operationen eingesetzt werden. Voraussetzung hierfür ist eine gute Spanabfuhr. Zum Schutz der verzahnten Oberfläche des Bohrkörpers sollte immer die Abdeckung AKPP verwendet werden (siehe Abb. C).



EDP	DESCRIPTION / AÇIKLAMA	CUTTING SPEED $V_c = m/min$ KESME HIZI	FEED $f_n = mm/rev$ İLERLEME
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



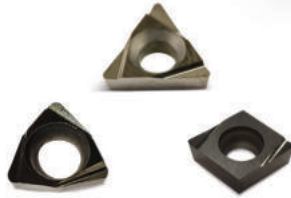
EDP	DESCRIPTION / AÇIKLAMA	CUTTING SPEED $V_c = m/min$ KESME HIZI	FEED $f_n = mm/rev$ İLERLEME
T.01.08.03.01	TPGH 09T0202L-AC1020	100-200	0.15~0.3
T.01.08.03.02	TPGH 09T0204L-AC1020	100-200	0.2~0.4



EDP	DESCRIPTION / AÇIKLAMA	CUTTING SPEED $V_c = m/min$ KESME HIZI	FEED $f_n = mm/rev$ İLERLEME
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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