

konusulan
the spoken kalite...
quality...

FREZELEME TAKIMLARI
MILLING TOOLS
FRÄSWERKZEUGE



AKKO **A** **EM** **90** **L** - **A** **P** **10**

1 2 3 4 5 6 7

D12 - **W16** - **L100** - **Z01** - **H**

8 9 10 11 12

2 Kesiş Stili / Cutter Style / Fräswerkzeug-Typ

FM: Yüzey Frezeleme Takımları / Face Milling Tools / Eck-und Planfräsköpfe
EM: Alın ve Yüzey Parmak Frezeleri / End Face Milling Tools / Schafffräser
CM: Pah Kırma Parmak Frezeleri / Chamfering End Milling Tools / Fasfräser
HM: Helis Parmak Frezeleri / Helix End Milling Tools / Schafffräser Helix
TSM: T Kanal Frezeleri / T Slot Milling Tools / T-Nutenfräser
HFM: Yüksek İlerleme Frezeleme Takımları / High Feed Milling Tools / Fräser für hohe Vorschübe
PMR: Küresel Uçlu Parmak Frezeleri / Ball Nose End Milling Tools / Kugel und Koperfräser
SDM: Disk Frezeler / Slot Disc Milling / Scheibenfräser
CBM: Silindirik Alyan Başlı Vida Havşalarını Açma Frezeleri / Countersink Milling Tool for Cylindrical Allen Head Screws
Fräswerkzeug für zylindrische Inbusschrauben

3 Freze Yanaşma Açısı / Lead Angle / Anstellwinkel

90° - 75° - 60° - 45°
20° - 15° - 11° - 5° - 0°

4 Freze Yanaşma Açısı / Lead Angle / Ausführung

L: Sol - Left / Links
C: Baskı Pabucu - Clamp / Spannpratze
S: Altlık - Shim / Unterlage
CL: Baskı Pabuçlu Sol Yön - Left Way with Clamp
Spannspratze links
CS: Baskı Pabuçlu Altlıklı - Clamp with Shim
Spannspratze mit Unterlage
CSL: Baskı Pabuçlu Altlıklı Sol Yön - Left Way Clamp with Shim
Spannspratze mit Unterlage Links

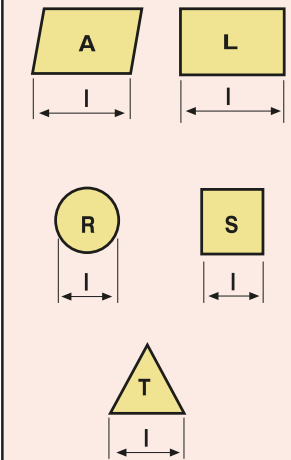
5 Uç Tipi / Type of Insert / Plattenform

C	D	E	K
L	R	S	T
V	W	A	B
H	M	O	P

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

A	B	C
D	E	F
G	N	P

7 Kesme Kenar Uzunluğu
Cutting Edge Length
Länge der Schneidkante



8 Takım Çapı / Tool Diameter / Werkzeug-ø

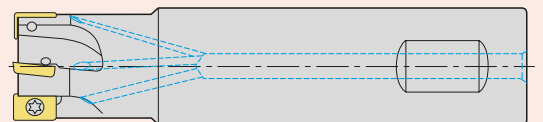
9 Montaj Formu ve Çapı / Assembly Form and Diameter / Schaft-ø und Form

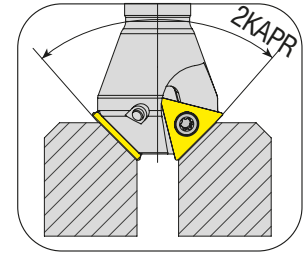
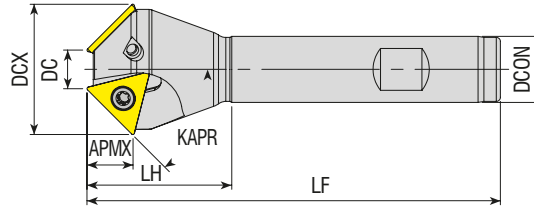
A, B, C, D: ISO'ya göre montaj formu / Assembly Form and Diameter / Art der Montage und Durchmesser
C: Silindirik Şaft / Cylindrical Shank / Zylindrischer Schaft
W: Weldon

10 Takım Boyu / Tool Length / Werkzeug Länge

11 Etkili Diş Adedi / Number of Effective Tooth / Effektive Zahnzahl

12 İçten Soğutmalı / With Coolant Hole / Innenkühlung





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

	KAPR	DC	DCX	DCON	LF	LH	ZEFP	APMX						
ACM10-TC16-D17X22-W16-L90-Z01	10°	17	22	16	90	30	1	15.2	TC.T 16T304					
ACM15-TC16-D17X24-W16-L90-Z01	15°	17	24	16	90	30	1	14.9						
ACM15-TC16-D22X29-W16-L100-Z01	15°	22	29	16	100	30	1	14.9						
ACM15-TC16-D30X37-W20-L100-Z02	15°	30	37	20	100	35	2	14.9						
ACM15-TC16-D35X42-W20-L100-Z03	15°	35	42	20	100	38	3	14.9						
ACM15-TC16-D52X59-W25-L110-Z03	15°	52	59	25	110	40	3	14.9						
ACM17.5-TC16-D17X25-W16-L90-Z01	17.5°	17	25	16	90	30	1	14.7						
ACM18.5-TC16-D21.3X30-W20-L100-Z02	18.5°	21.3	30	20	100	30	2	13.5				TC.T 16T308		
ACM20-TC16-D12X22-W16-L100-Z01	20°	12	22	16	100	30	1	14.4				TC.T 16T304	4015-M3.5x9	80-T15
ACM20-TC16-D17X27-W16-L100-Z01	20°	17	27	16	100	30	1	14.4						
ACM20-TC16-D23X33-W20-L100-Z02	20°	23	33	20	100	30	2	14.4						
ACM20-TC16-D28X38-W20-L100-Z02	20°	28	38	20	100	35	2	14.4						
ACM20-TC16-D35X45-W20-L100-Z03	20°	35	45	20	100	40	3	14.4						
ACM20-TC16-D39X49-W20-L100-Z03	20°	39	49	20	100	40	3	14.4						
ACM20-TC16-D45X55-W25-L110-Z03	20°	45	55	25	110	40	3	14.4						
ACM20-TC16-D51X61-W25-L110-Z03	20°	51	61	25	110	40	3	14.4						
ACM22.5-TC16-D17X28-W16-L100-Z01	22.5°	17	28	16	100	30	1	14.2						
ACM25-TC16-D17X29-W16-L100-Z01	25°	17	29	16	100	30	1	13.9						
ACM30-TC16-D6X20-W16-L100-Z01	30°	6	20	16	100	30	1	13.3	TC.T 090204	3007-M2.2x5	80-T07			
ACM30-TC16-D15X30-W16-L100-Z01	30°	15	30	16	100	30	1	13.3						
ACM30-TC16-D17.5X32.5-W20-L100-Z02	30°	17.5	32.5	20	100	30	2	13.3						
ACM30-TC16-D20X35-W16-L100-Z02	30°	20	35	16	100	35	2	13.3						
ACM30-TC16-D30X45-W20-L100-Z02	30°	30	45	20	100	40	2	13.3						
ACM30-TC16-D35X50-W20-L100-Z03	30°	35	50	20	100	40	3	13.3						
ACM30-TC16-D45X60-W25-L110-Z03	30°	45	60	25	110	40	3	13.3						
ACM45-TC09-D7X18-W16-L100-Z02	45°	7	18	16	100	25	2	5.9						
ACM45-TC11-D11X24-W16-L100-Z02	45°	11	24	16	100	25	2	6.9				TC.T 110204	3008-M2.5x6	80-T08
ACM45-TC16-D5X26-W16-L100-Z01	45°	5	26	16	100	30	1	10.8				TC.T 16T304	4015-M3.5x9	80-T15
ACM45-TC16-D10X31-W16-L100-Z02	45°	10	31	16	100	35	2	10.8						
ACM45-TC16-D10X31-W20-L100-Z02	45°	10	31	20	100	35	2	10.8						
ACM45-TC16-D18X39-W16-L100-Z02	45°	18	39	16	100	40	2	10.8						
ACM45-TC16-D18X39-W20-L100-Z02	45°	18	39	20	100	40	2	10.8						
ACM45-TC16-D20X41-W20-L100-Z02	45°	20	41	20	100	40	2	10.8						
ACM45-TC16-D30X51-W20-L100-Z02	45°	30	51	20	100	40	2	10.8						
ACM55-TC16-D16X40-W20-L100-Z03	55°	16	40	20	100	40	3	8.7						
ACM62-TC16-D14X40-W20-L100-Z03	62°	14	40	20	100	40	3	7.1						
ACM72-TC16-D14X42-W20-L100-Z03	72°	14	42	20	100	40	3	4.6						

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

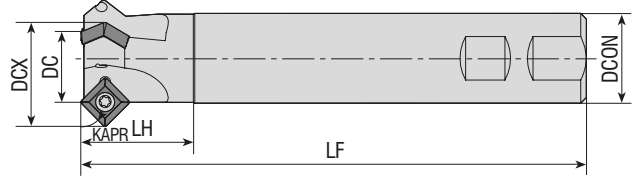
● Stokta / In Stock / Auf Lager ○ Stokta Yok / Non Stock Item / Kein Lagerartikel, Lieferzeit auf Anfrage
ISO Uçuna Uygundur. / Compatible with ISO Insert. Kompatibel mit ISO Wendeplatten.

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück ACM10-TC16-D17X22-W16-L90-Z01

Kesme Hesabı : S 331 / Cutting Calculation : P 331 / Schnittberechnung : 331

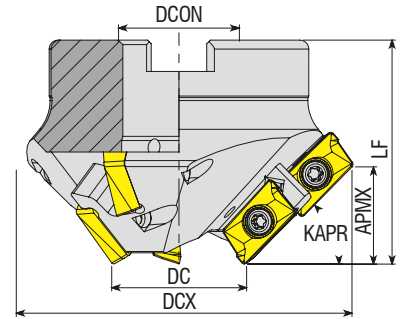
➤ **S-SİSTEM PAH FREZELER**
S-SYSTEM CHAMFERING END MILLS
S-SYSTEM FASFRÄSER



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	
		KAPR	DC	DCX	DCON	LF	LH	ZEFP	a		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
ACM45-SP1104-D12x26-W20-L150-Z01	●	45°	12	26	20	150	30	1	-	SPGT 110408	4015-M4x9	80-T15
ACM45-SP1104-D25x39-W25-L150-Z02	●	45°	25	39	25	150	35	2	-			
ACM45-SP1104-D32x46-W32-L150-Z03	●	45°	32	46	32	150	40	3	-			

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

➤ **HELİS PAH FREZELEME TAKIMLARI**
HELIX CHAMFER MILLING TOOLS
HELIX-FASFRÄSER



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	
		ZEFP		KAPR	DC	DCX	DCON	APMX	LF		Sıkma Vidası Screw Schraube	Tork Anahtar Torx Key Torx-Schlüssel
		Toplam Total Gesamt	Etkili Effective Effektiv									
AHM15-AP16-D35x93-A27-Z0306-H	●	6	3	15	35	93	27	8	50	AP. 1604..	4015-M4x11	80-T15
AHM30-AP16-D35x87-A27-Z0306-H	●	6	3	30	35	87	27	15	50			
AHM45-AP16-D35x77-A27-Z0306-H	●	6	3	45	35	77	27	21.5	50			
AHM60-AP16-D35x65-A22-Z0306-H	●	6	3	60	35	65	22	26.5	50			
AHM75-AP16-D35x50-A22-Z0306-H	●	6	3	75	35	50	22	29.5	50			

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

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

Sipariş Örneği/Ordering Example/Bestellbeispiel

1 ad./pcs./stück ACM45-SP1104-D12x26-W20-L150-Z01

Kesme Hesabı : S 331 / Cutting Calculation : P 331 / Schnittberechnung : 331