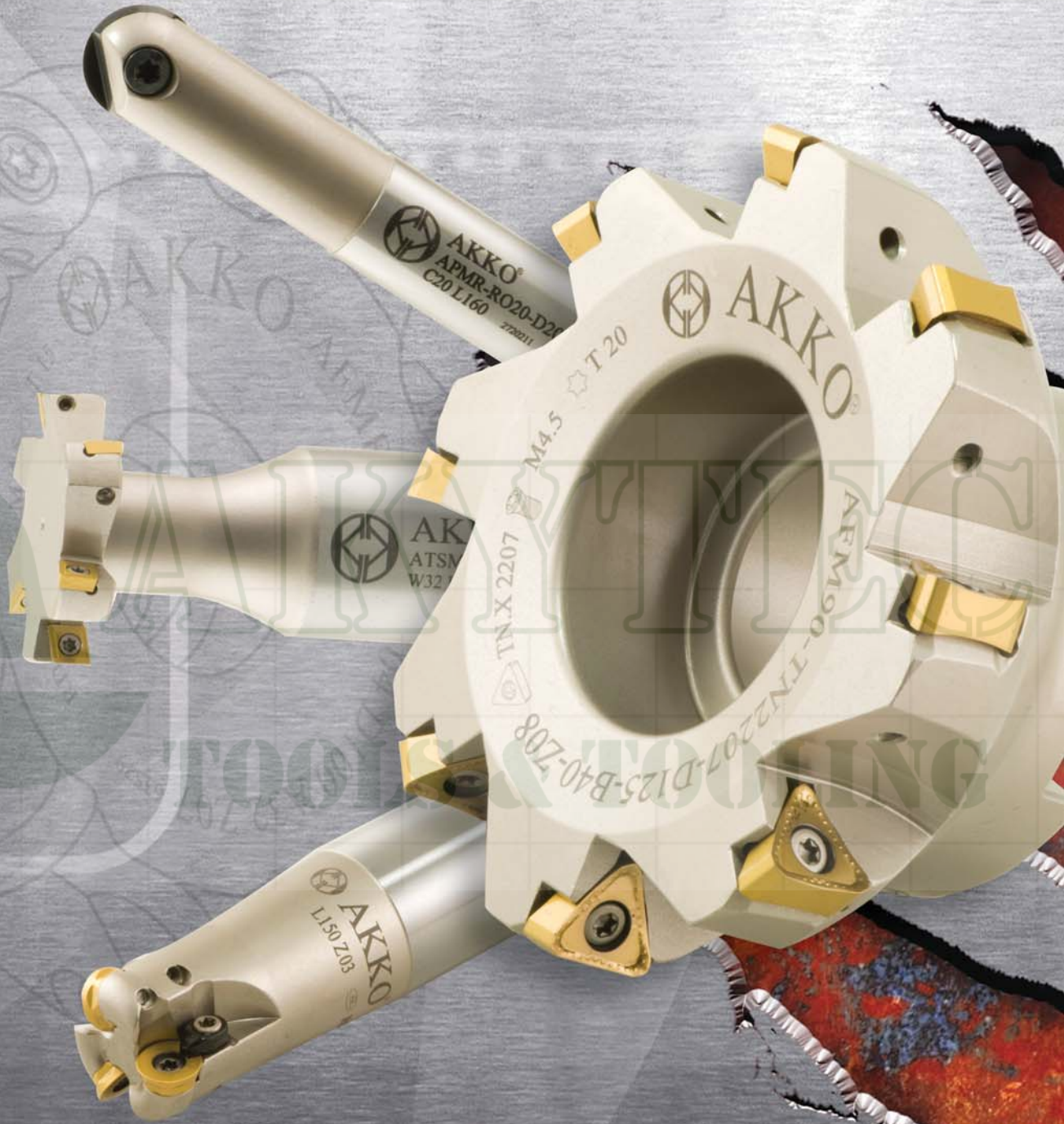


KESİCİ UÇ BAĞLAMA SİSTEMLERİ

CONNECTION SYSTEMS FOR CUTTING INSERTS



FREZELEME TAKIMLARI

MILLING TOOLS

AKKO
A

1

EM

2

90

3

A

4

P

5

10

6

D12

7

- W16 -

8

L100 -

9

Z01

10

- H

11

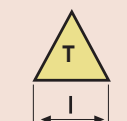
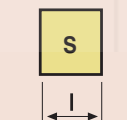
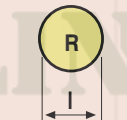
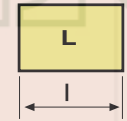
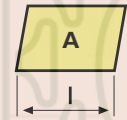
2 Kesiş Stili / Cutter Style

FM: Yüzey Frezeleme Takımları - Face Milling Tools
EM: Alın ve Yüzey Parmak Frezeleri - End Face Milling Tools
CM: Pah Kırma Parmak Frezeleri - Chamfering End Milling Tools
HM: Helis Parmak Frezeleri - Helix End Milling Tools
TSM: T Kanal Frezeleri - T Slot Milling Tools
HFM: Yüksek İlerleme Frezeleme Takımları - High Feed Milling Tools
PMR: Küresel Uçlu Parmak Frezeleri - Ball Nose End Milling Tools

3 Freze Yanaşma Açısı / Lead Angle

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

6 Kesme Kenar Uzunluğu / Cutting Edge Length



4 Uç Tipi / Insert Shape

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

5 Serbest Uç Açısı / Clearance angle of Insert

A	B	C
D	E	F
G	N	P

7 Takım Çapı / Tool Diameter

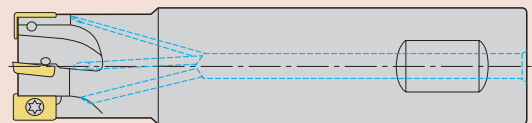
8 Montaj Formu ve Çapı / Assembly Form and Diameter

A, B, C, D,: ISO'ya göre montaj formu / Assembly form to ISO
C: Silindirik Şaft / Cylindrical Shank
W: Weldon

9 Takım Boyu / Tool Length

10 Etkili Diş Adedi / Number of Effective Tooth

11 İçten Soğutmalı / With Coolant Hole





PARMAK FREZELER

PARMAK FREZELER
END MILLING TOOLS

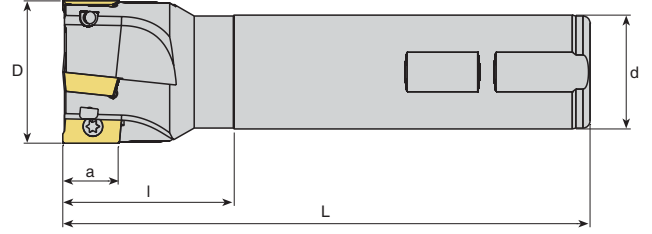


TOOLS & TOOLING



S-SİSTEM YÜZEY PARMAK FREZELER

S-SYSTEM END MILLS



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)						Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	I	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
										
AEM90-AP10-D12-W16-L100-Z01-H	●	12	1	16	100	30	10			
AEM90-AP10-D14-W16-L100-Z01-H	●	14	1	16	100	30	10			
AEM90-AP10-D16-W16-L100-Z02-H	●	16	2	16	100	30	10			
AEM90-AP10-D18-W16-L100-Z02-H	●	18	2	16	100	40	10			
AEM90-AP10-D20-W20-L100-Z03-H	●	20	3	20	100	30	10			
AEM90-AP10-D22-W20-L100-Z03-H	●	22	3	20	100	30	10			
AEM90-AP10-D25-W25-L100-Z03-H	●	25	3	25	100	30	10			
AEM90-AP10-D12-W16-L150-Z01	●	12	1	16	150	38	10			
AEM90-AP10-D14-W16-L150-Z01	●	14	1	16	150	38	10			
AEM90-AP10-D16-W16-L150-Z02	●	16	2	16	150	50	10			
AEM90-AP10-D16-C16-L150-Z02-H	●	16	2	16	150	50	10			
AEM90-AP10-D18-W16-L150-Z02	●	18	2	16	150	40	10			
AEM90-AP10-D20-W20-L150-Z03	●	20	3	20	150	50	10			
AEM90-AP10-D20-C20-L150-Z03-H	●	20	3	20	150	50	10			
AEM90-AP10-D21-W20-L150-Z03	●	21	3	20	150	50	10			
AEM90-AP10-D22-W20-L150-Z03	●	22	3	20	150	50	10			
AEM90-AP10-D24-W20-L150-Z03	●	24	3	20	150	50	10			
AEM90-AP10-D25-W25-L150-Z03	●	25	3	25	150	50	10			
AEM90-AP10-D32-W25-L150-Z04	●	32	4	25	150	50	10			
AEM90-AP10-D32-W32-L150-Z04	●	32	4	32	150	50	10			
AEM90-AP10-D40-W32-L150-Z05	●	40	5	32	150	50	10			
AEM90-AP10-D16-C16-L200-Z02	●	16	2	16	200	100	10			
AEM90-AP10-D20-C20-L200-Z02	●	20	2	20	200	100	10			
AEM90-AP10-D25-C25-L200-Z02	●	25	2	25	200	100	10			
AEM90-AP10-D25-C25-L200-Z03	●	25	3	25	200	100	10			
AEM90-AP10-D25-C25-L250-Z02	●	25	2	25	250	100	10			
AEM90-AP11-D16-W16-L150-Z02	●	16	2	16	150	50	11			
AEM90-AP11-D16-C16-L150-Z02	●	16	2	16	150	50	11			
AEM90-AP11-D17-C16-L150-Z02	●	17	2	16	150	50	11			
AEM90-AP11-D20-W20-L150-Z03	●	20	3	20	150	50	11			
AEM90-AP11-D20-C20-L150-Z03	●	20	3	20	150	50	11			
AEM90-AP11-D21-W20-L150-Z03	●	21	3	20	150	50	11			
AEM90-AP11-D21-W20-L150-Z03-H	●	21	3	20	150	50	11			
AEM90-AP11-D21-C20-L150-Z03	●	21	3	20	150	50	11			
AEM90-AP11-D25-W25-L150-Z03	●	25	3	25	150	50	11			
AEM90-AP11-D25-W25-L150-Z03-H	●	25	3	25	150	50	11			
AEM90-AP11-D25-C25-L150-Z03	●	25	3	25	150	50	11			
AEM90-AP11-D26-C25-L150-Z03	●	26	3	25	150	50	11			
AEM90-AP11-D32-W25-L150-Z04	●	32	4	25	150	50	11			
AEM90-AP11-D32-W32-L150-Z03-H	●	32	3	32	150	50	11			
AEM90-AP11-D32-W32-L150-Z04	●	32	4	32	150	50	11			
AEM90-AP11-D16-C16-L200-Z02	●	16	2	16	200	100	11			
AEM90-AP11-D17-C16-L200-Z02	●	17	2	16	200	100	11			
AEM90-AP11-D20-C20-L200-Z03	●	20	3	20	200	100	11			
AEM90-AP11-D21-C20-L200-Z03	●	21	3	20	200	100	11			

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

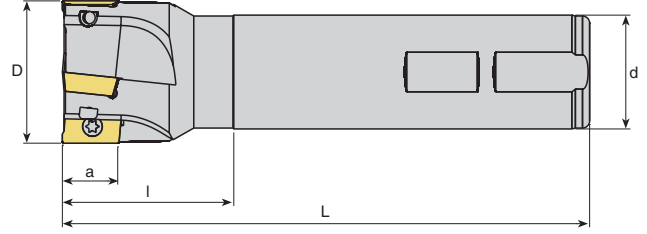
Sipariş Örneği/Ordering Example : 1 ad./pcs. AEM90-AP10-D12-W16-L100-Z01-H

Kesme Hesabı : S-144 / Cutting Calculation: P-144

S-SİSTEM YÜZEY PARMAK FREZELER

S-SYSTEM END MILLS

90°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)						Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	l	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
										
AEM90-AP1204-D20-C20-L150-Z02	●	20	2	20	150	30	12	AP.. 1204..	1510-M3.5x9	80-T10
AEM90-AP1204-D21-C20-L150-Z02	●	21	2	20	150	30	12			
AEM90-AP1204-D25-C25-L150-Z03	●	25	3	25	150	40	12			
AEM90-AP1204-D32-C25-L150-Z03	●	32	3	25	150	35	12			
AEM90-AP1204-D21-C20-L200-Z02	●	21	2	20	200	30	12			
AEM90-AP1204-D26-C25-L250-Z02	●	26	2	25	250	35	12			
AEM90-AP16-D25-W25-L100-Z02-H	●	25	2	25	100	35	16	AP.. 1604..	1515-M4x9	80-T15
AEM90-AP16-D28-W25-L100-Z03-H	●	28	3	25	100	40	16			
AEM90-AP16-D30-W25-L110-Z03-H	●	30	3	25	110	40	16			
AEM90-AP16-D32-W32-L110-Z03-H	●	32	3	32	110	40	16			
AEM90-AP16-D36-W32-L110-Z03-H	●	36	3	32	110	40	16			
AEM90-AP16-D40-W32-L110-Z04-H	●	40	4	32	110	40	16			
AEM90-AP16-D25-W25-L150-Z02	●	25	2	25	150	50	16	AP.. 1604..	1515-M4x9	80-T15
AEM90-AP16-D28-W25-L150-Z03	●	28	3	25	150	50	16			
AEM90-AP16-D30-W25-L150-Z03	●	30	3	25	150	50	16			
AEM90-AP16-D32-W25-L150-Z03	●	32	3	25	150	50	16			
AEM90-AP16-D32-W32-L150-Z03	●	32	3	32	150	50	16			
AEM90-AP16-D32-C32-L150-Z03	●	32	3	32	150	50	16			
AEM90-AP16-D35-W32-L150-Z03	●	35	3	32	150	50	16	AP.. 1604..	1515-M4x11	80-T15
AEM90-AP16-D36-W32-L150-Z03	●	36	3	32	150	50	16			
AEM90-AP16-D40-W32-L150-Z04	●	40	4	32	150	50	16			
AEM90-AP16-D40-C32-L150-Z04	●	40	4	32	150	50	16			
AEM90-AP16-D25-C25-L250-Z02	●	25	2	25	250	100	16			
AEM90-AP16-D32-C32-L250-Z02	●	32	2	32	250	100	16			
AEM90-AP16-D32-C32-L250-Z03	●	32	3	32	250	100	16	AP.. 1705..	1515-M4x9	1515-M4x11
AEM90-AP16-D40-C32-L250-Z02	●	40	2	32	250	50	16			
AEM90-AP16-D40-C32-L250-Z04	●	40	4	32	250	50	16			
AEM90-AP1705-D25-C25-L120-Z02	●	25	2	25	120	40	16			
AEM90-AP1705-D32-C25-L150-Z03	●	32	3	25	150	45	16			
AEM90-AP1705-D26-C25-L200-Z02	●	26	2	25	200	40	16			
AEM90-AP1705-D26-C25-L250-Z02	●	26	2	25	250	40	16	AP.. 1705..	1515-M4x11	
AEM90-AP1705-D33-C32-L300-Z02	●	33	2	32	300	40	16			

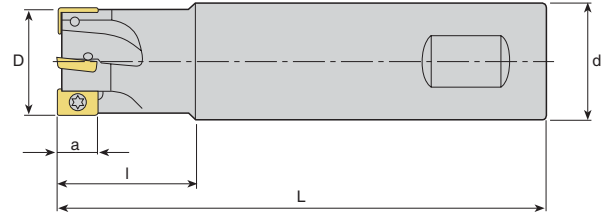
R: Sağ/Right L: Sol/Left ● Stokta/In Stock ○ Stokta Yok/Non Stock Item

Sipariş Örneği/Ordering Example : 1 ad./pcs. AEM90-AP16-D25-W25-L100-Z02-H
Kesme Hesabı : S-144 / Cutting Calculation: P-144



S-SİSTEM YÜZEY PARMAK FREZELER

S-SYSTEM END MILLS



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)						Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	l	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AEM90-XC13-D20-W20-L150-Z02	●	20	2	20	150	50	13			
AEM90-XC13-D25-W25-L150-Z03	●	25	3	25	150	50	13			
AEM90-XC13-D32-W32-L150-Z04	●	32	4	32	150	50	13			



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)						Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	l	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AEM90-X006-D10-C12-L120-Z02	●	10	2	12	120	50	5			
AEM90-X006-D12-C12-L120-Z02	●	12	2	12	120	25	5			
AEM90-X009-D16-W16-L150-Z02	●	16	2	16	150	50	8			
AEM90-X009-D20-W20-L150-Z03	●	20	3	20	150	50	8			
AEM90-X012-D20-W20-L150-Z02	●	20	2	20	150	50	11			
AEM90-X012-D22-W20-L150-Z02	●	22	2	20	150	50	11			
AEM90-X012-D25-W25-L150-Z03	●	25	3	25	150	50	11			
AEM90-X012-D32-W32-L150-Z03	●	32	3	32	150	50	11			

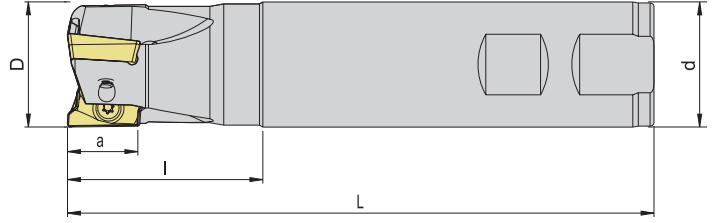
R: Sağ/Right L: Sol/Left ● Stokta/In Stock ○ Stokta Yok/Non Stock Item

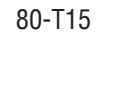
Sipariş Örneği/Ordering Example : 1 ad./pcs. AEM90-X012-D20-W20-L150-Z02
Kesme Hesabı : S-144 / Cutting Calculation: P-144

S-SİSTEM YÜZEY PARMAK FREZELER

S-SYSTEM END MILLS

90°



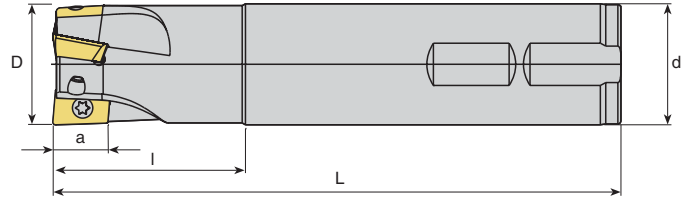
Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)						Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	l	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
										
AEM90-RT07-D10-W10-L120-Z02	●	10	2	10	120	30	7	 RT 0702	 3006-M2x4	 80-T06
AEM90-RT07-D12-W12-L120-Z02	●	12	2	12	120	30	7			
AEM90-RT07-D12-C12-L120-Z02	●	12	2	12	120	30	7			
AEM90-RT07-D14-W12-L120-Z02	●	14	2	12	120	30	7			
AEM90-RT10-D16-W16-L120-Z02-H	●	16	2	16	120	30	10			
AEM90-RT10-D18-W16-L120-Z02-H	●	18	2	16	120	30	10			
AEM90-RT10-D20-W20-L120-Z03-H	●	20	3	20	120	30	10			
AEM90-RT10-D22-W20-L120-Z03-H	●	22	3	20	120	30	10			
AEM90-RT10-D25-W25-L120-Z04-H	●	25	4	25	120	40	10			
AEM90-RT10-D32-W32-L120-Z05-H	●	32	5	32	120	50	10	 RT 1003	 3008-M2.5x6	 80-T08
AEM90-RT10-D16-W16-L150-Z02	●	16	2	16	150	50	10			
AEM90-RT10-D20-W20-L150-Z03	●	20	3	20	150	50	10			
AEM90-RT10-D25-W25-L150-Z04	●	25	4	25	150	50	10			
AEM90-RT10-D32-W32-L150-Z05	●	32	5	32	150	50	10			
AEM90-RT10-D17-W16-L160-Z02	●	17	2	16	160	30	10			
AEM90-RT10-D16-C16-L200-Z02	●	16	2	16	200	100	10			
AEM90-RT10-D20-C19-L200-Z03	●	20	3	19	200	100	10			
AEM90-RT10-D20-C20-L200-Z03	●	20	3	20	200	100	10			
AEM90-RT10-D21-W20-L200-Z03	●	21	3	20	200	30	10			
AEM90-RT10-D25-C25-L200-Z04	●	25	4	25	200	100	10			
AEM90-RT10-D32-C32-L200-Z05	●	32	5	32	200	100	10	 RT 1304	 1008-M3x9	 80-T15
AEM90-RT13-D32-C32-L250-Z04	●	32	4	32	250	50	13			
AEM90-RT16-D25-W25-L120-Z02-H	●	25	2	25	120	40	16			
AEM90-RT16-D32-W32-L120-Z03-H	●	32	3	32	120	50	16			
AEM90-RT16-D40-W32-L120-Z04-H	●	40	4	32	120	50	16			
AEM90-RT16-D25-W25-L150-Z02	●	25	2	25	150	50	16			
AEM90-RT16-D32-W32-L150-Z03	●	32	3	32	150	50	16			
AEM90-RT16-D40-W32-L150-Z04	●	40	4	32	150	50	16			
AEM90-RT16-D25-C25-L200-Z02	●	25	2	25	200	100	16			
AEM90-RT16-D32-C32-L200-Z03	●	32	3	32	200	100	16			
AEM90-RT16-D40-C32-L200-Z04	●	40	4	32	200	100	16			
AEM90-RT16-D32-C32-L250-Z03	●	32	3	32	250	100	16			
AEM90-RT16-D32-C32-L270-Z03	●	32	3	32	270	100	16			

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

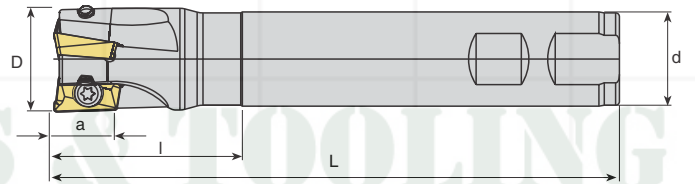
Sipariş Örneği/Ordering Example : 1 ad./pcs. AEM90-RT07-D10-W10-L120-Z02
Kesme Hesabı : S-144 / Cutting Calculation: P-144

S-SİSTEM YÜZEY PARMAK FREZELER

S-SYSTEM END MILLS



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)						Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	I	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AEM90-AD1505-D25-W25-L150-Z02	●	25	2	25	150	50	15	AD.. 1505..	1515-M4x9	80-T15
AEM90-AD1505-D30-W25-L150-Z03	●	30	3	25	150	50	15			
AEM90-AD1505-D32-W32-L150-Z03	●	32	3	32	150	50	15			



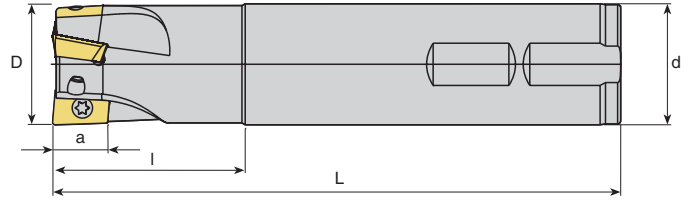
Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)						Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	I	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AEM90-R390.11-D16-W16-L100-Z02-H	●	16	2	16	100	30	11	R390.11T3..	3008-M2.5x6	80-T08
AEM90-R390.11-D20-W20-L100-Z03-H	●	20	3	20	100	30	11			
AEM90-R390.11-D25-W25-L100-Z03-H	●	25	3	25	100	35	11			
AEM90-R390.11-D16-W16-L150-Z02	●	16	2	16	150	50	11			
AEM90-R390.11-D16-W16-L150-Z02-H	●	16	2	16	150	50	11			
AEM90-R390.11-D20-W20-L150-Z03	●	20	3	20	150	50	11			
AEM90-R390.11-D20-W20-L150-Z03-H	●	20	3	20	150	50	11			
AEM90-R390.11-D25-W25-L150-Z03	●	25	3	25	150	50	11			
AEM90-R390.11-D25-W25-L150-Z03-H	●	25	3	25	150	50	11	R390.1704..	1015-M3.5x9	80-T15
AEM90-R390.17-D25-W25-L150-Z02	●	25	2	25	150	50	17			
AEM90-R390.17-D25-W25-L150-Z02-H	●	25	2	25	150	50	17			
AEM90-R390.17-D30-W25-L150-Z03	●	30	3	25	150	50	17			
AEM90-R390.17-D30-W25-L150-Z03-H	●	30	3	25	150	50	17			

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

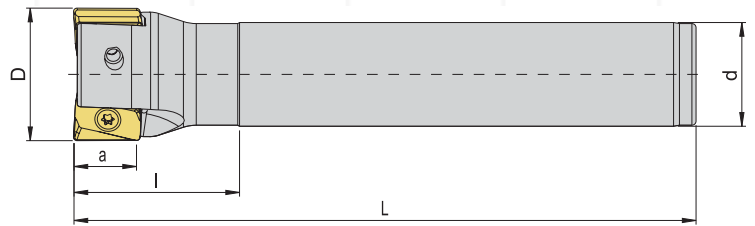
Sipariş Örneği/Ordering Example : 1 ad./pcs. AEM90-R390.11-D16-W16-L100-Z02
Kesme Hesabı : S-144 / Cutting Calculation: P-144

S-SİSTEM YÜZEY PARMAK FREZELER

S-SYSTEM END MILLS



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)						Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	I	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AEM90-AX0602-D10-C10-L120-Z02	●	10	2	10	120	20	5.7	AX.T 0602	3006-M1.8x4	80-T06
AEM90-AX0602-D12-C12-L120-Z02	●	12	2	12	120	20	5.7			
AEM90-AX0903-D16-C16-L120-Z02	●	16	2	16	120	30	8.8			
AEM90-AX0903-D17-C16-L120-Z02	●	17	2	16	120	25	8.8			
AEM90-AX0903-D20-C20-L120-Z03	●	20	3	20	120	30	8.8			
AEM90-AX0903-D21-C20-L120-Z03	●	21	3	20	120	25	8.8	AX.T 0903	3008-M2.5x6	80-T08
AEM90-AX0903-D25-C25-L150-Z03	●	25	3	25	150	30	8.8			
AEM90-AX0903-D26-C25-L150-Z03	●	26	3	25	150	30	8.8			
AEM90-AX0903-D16-C16-L180-Z02	●	16	2	16	180	30	8.8			
AEM90-AX0903-D17-C16-L180-Z02	●	17	2	16	180	25	8.8			
AEM90-AX0903-D20-C20-L200-Z02	●	20	2	20	200	30	8.8			
AEM90-AX0903-D21-C20-L200-Z02	●	21	2	20	200	25	8.8			
AEM90-AX0903-D25-C25-L250-Z02	●	25	2	25	250	40	8.8			



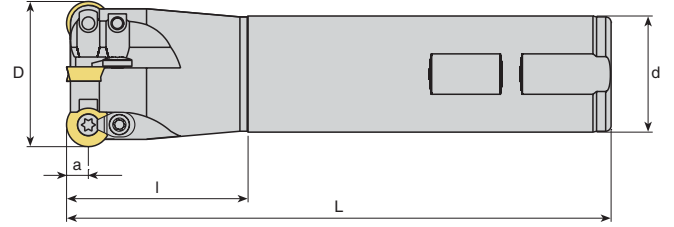
Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)						Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	I	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AEM90-AN1607-D32-C25-L150-Z02	●	32	2	25	150	50	15	AN.X 1607	1515-M4x11	80-T15
AEM90-AN1607-D40-C32-L150-Z03	●	40	3	32	150	50	15			

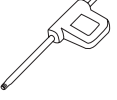
R: Sağ/Right L: Sol/Left ● Stokta/In Stock ○ Stokta Yok/Non Stock Item

Sipariş Örneği/Ordering Example : 1 ad./pcs. AEM90-AN1607-D32-C25-L150-Z02
Kesme Hesabı : S-144 / Cutting Calculation: P-144

S-SİSTEM YÜZEY ve KOPYA PARMAK FREZELER

S-SYSTEM END MILLS



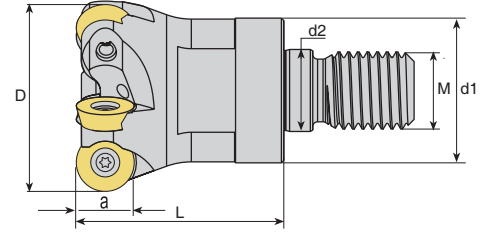
Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)						Kesici Uç Insert	Yedek Parçaları Spare Parts								
		D	Z	d	L	l	a		Sıkma Vidası Clamp Screw	Baskı Parçası Wedge Clamp	Baskı Vidası Screw	Tork Anahtar Torx Key					
																	
AEMR-RD08T2-D16-W16-L150-Z02	●	16	2	16	150	60	4	RD.. 08T2..	3008-M2.5x6	-	-	80-T08					
AEMR-RD08T2-D20-W20-L150-Z02	●	20	2	20	150	60	4										
AEMR-RD0803-D16-C16-L150-Z02	●	16	2	16	150	60	4	RD.. 0803..	1008-M3x9								
AEMR-RD0803-D16-C20-L200-Z02	●	16	2	20	200	60	4										
AEMRC-RD1003-D20-W20-L150-Z02	●	20	2	20	150	60	5	RD.. 1003..									
AEMRC-RD1003-D25-W25-L150-Z02	●	25	2	25	150	60	5										
AEMRC-RD1003-D32-W32-L150-Z03	●	32	3	32	150	60	5										
AEMRC-RD1003-D40-W32-L150-Z04	●	40	4	32	150	50	5										
AEMRC-RD1003-D20-C20-L160-Z02	●	20	2	20	160	70	5										
AEMRC-RD1003-D25-C25-L160-Z02	●	25	2	25	160	70	5										
AEMRC-RD1003-D25-W25-L200-Z02	●	25	2	25	200	100	5										
AEMRC-RD1003-D25-C25-L200-Z02	●	25	2	25	200	100	5										
AEMRC-RD1003-D20-C20-L250-Z02	●	20	2	20	250	150	5										
AEMRC-RD1003-D25-C25-L250-Z02	●	25	2	25	250	150	5										
AEMRC-RD1003-D32-C32-L250-Z02	●	32	2	32	250	150	5	RD.. 10T3..	1015-M3.5x9	ACK-15	1015-M3.5x9	80-T15					
AEMRC-RD1003-D40-C32-L250-Z02	●	40	2	32	250	50	5										
AEMRC-RD10T3-D20-W20-L150-Z02	●	20	2	20	150	60	5										
AEMRC-RD10T3-D25-W25-L150-Z02	●	25	2	25	150	60	5										
AEMRC-RD10T3-D32-W32-L150-Z03	●	32	3	32	150	60	5										
AEMRC-RD12T3-D25-W25-L150-Z02	●	25	2	25	150	60	6						RD.. 12T3..				
AEMRC-RD12T3-D32-W32-L150-Z03	●	32	3	32	150	60	6										
AEMRC-RD12T3-D40-W32-L150-Z04	●	40	4	32	150	50	6										
AEMRC-RD12T3-D25-W25-L200-Z02	●	25	2	25	200	100	6										
AEMRC-RD12T3-D25-C25-L250-Z02	●	25	2	25	250	150	6										
AEMRC-RD12T3-D32-C32-L250-Z02	●	32	2	32	250	150	6										
AEMRC-RD12T3-D40-C32-L250-Z02	●	40	2	32	250	50	6	RD.. 1204..									
AEMRC-RD12T3-D25-C25-L300-Z02	●	25	2	25	300	150	6										
AEMRC-RD1204-D32-C32-L160-Z03	●	32	3	32	160	70	6										
AEMRC-RD1604-D40-W32-L150-Z02	●	40	2	32	150	50	8						RD.. 1604..	1015-M4.5X11	ACK-05	1515-M4x11	

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

Sipariş Örneği/Ordering Example : 1 ad./pcs. AEMR-RD0803-D16-C16-L150-Z02
Kesme Hesabı : S-144 / Cutting Calculation: P-144

S-SİSTEM MODÜLER PARMAK FREZELER

S-SYSTEM MODULAR END MILLS (SCREW TYPE TOOLS)



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)							Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d1	M	L	d2	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AEMR-RD0702-D15-M08-L23-Z02-H	●	15	2	13	M08	23	8.5	3.5			
AEMR-RD0702-D16-M08-L23-Z02-H	●	16	2	13	M08	23	8.5	3.5			
AEMR-RD0702-D20-M10-L30-Z04-H	●	20	4	18	M10	30	10.5	3.5			
AEMR-RD0702-D25-M12-L35-Z05-H	●	25	5	21	M12	35	17	3.5			
AEMR-RD0702-D30-M16-L42-Z05-H	●	30	5	29	M16	42	17	3.5			
AEMR-RD0702-D32-M16-L43-Z05-H	●	32	5	26	M16	43	17	3.5			
AEMR-RD0702-D35-M16-L42-Z06-H	●	35	6	29	M16	42	17	3.5			
AEMR-RD1003-D20-M10-L30-Z02-H	●	20	2	18	M10	30	10.5	5			
AEMR-RD1003-D25-M12-L35-Z03-H	●	25	3	21	M12	35	12.5	5			
AEMR-RD1003-D30-M16-L43-Z04-H	●	30	4	29	M16	43	17	5			
AEMR-RD1003-D32-M16-L43-Z04-H	●	32	4	29	M16	43	17	5			
AEMR-RD1003-D35-M16-L43-Z04-H	●	35	4	29	M16	43	17	5			
AEMR-RD1003-D40-M16-L43-Z05-H	●	40	5	29	M16	43	17	5			
AEMR-RD1003-D42-M16-L43-Z05-H	●	42	5	29	M16	43	17	5			
AEMR-RD12T3-D24-M12-L35-Z02-H	●	24	2	21	M12	35	12.5	6			
AEMR-RD12T3-D25-M12-L35-Z02-H	●	25	2	21	M12	35	12.5	6			
AEMR-RD12T3-D32-M16-L43-Z03-H	●	32	3	29	M16	43	17	6			
AEMR-RD12T3-D35-M16-L43-Z03-H	●	35	3	29	M16	43	17	6			
AEMR-RD12T3-D35-M16-L43-Z04-H	●	35	4	29	M16	43	17	6			
AEMR-RD12T3-D40-M16-L43-Z04-H	●	40	4	29	M16	43	17	6			
AEMR-RD12T3-D42-M16-L43-Z05-H	●	42	5	29	M16	43	17	6			
AEMR-RD1604-D32-M16-L43-Z02-H	●	32	2	29	M16	43	17	8			
AEMR-RD1604-D40-M16-L43-Z02-H	●	40	2	29	M16	43	17	8			
AEMR-RD1604-D42-M16-L43-Z03-H	●	42	3	29	M16	43	17	8			

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

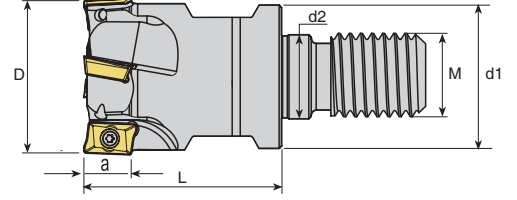
Sipariş Örneği/Ordering Example : 1 ad./pcs. AEMR-RD0702-D15-M08-L23-Z02-H
Kesme Hesabı : S-144 / Cutting Calculation: P-144



S-SİSTEM MODÜLER PARMAK FREZELER

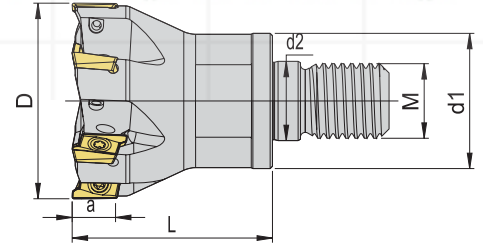
S-SYSTEM MODULAR END MILLS (SCREW TYPE TOOLS)

90°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)							Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d1	M	L	d2	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AEM90-AP10-D16-M08-L30-Z02-H	●	16	2	14.75	M08	30	8.5	10	AP.. 1003..	3008-M2.5x6	80-T08
AEM90-AP10-D20-M10-L30-Z03-H	●	20	3	18	M10	30	10.5	10			
AEM90-AP10-D25-M12-L35-Z03-H	●	25	3	21	M12	35	12.5	10			
AEM90-AP10-D32-M16-L35-Z04-H	○	32	4	29	M16	35	17	10			
AEM90-AP10-D40-M16-L43-Z05-H	○	40	5	29	M16	43	17	10			
AEM90-AP10-D42-M16-L43-Z05-H	●	42	5	29	M16	43	17	10	AP.. 11T3..	1515-M4x11	80-T15
AEM90-AP11-D16-M08-L30-Z02-H	●	16	2	14.75	M08	30	8.5	11			
AEM90-AP11-D20-M10-L30-Z03-H	●	20	3	18	M10	30	10.5	11			
AEM90-AP16-D25-M12-L43-Z02-H	●	25	2	21	M12	43	12.5	16	AP.. 1604..	1515-M4x11	80-T15
AEM90-AP16-D32-M16-L43-Z03-H	●	32	3	29	M16	43	17	16			
AEM90-AP16-D40-M16-L43-Z04-H	●	40	4	29	M16	43	17	16			

90°



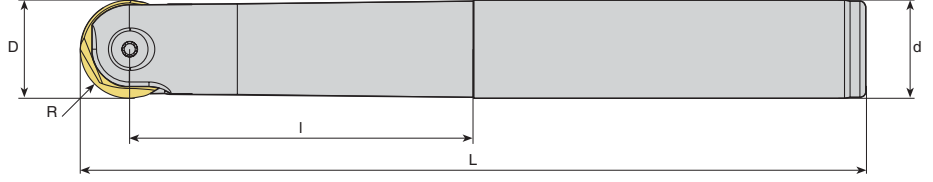
Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)							Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d1	M	L	d2	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AEM90-RT10-D25-M12-L30-Z04-H	●	25	4	21	M12	30	12.5	10	RT 1003..	3008-M2.5x6	80-T08
AEM90-RT10-D32-M16-L43-Z05-H	●	32	5	29	M16	43	17	10			
AEM90-RT10-D42-M16-L43-Z06-H	●	42	6	29	M16	43	17	10			

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

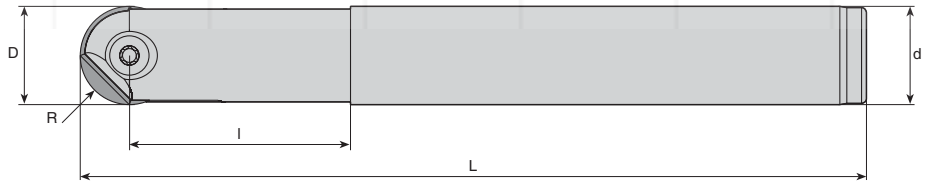
Sipariş Örneği/Ordering Example : 1 ad./pcs. AEM90-AP10-D16-M08-L30-Z02-H
Kesme Hesabı : S-144 / Cutting Calculation: P-144

KÜRE UÇLU PARMAK FREZELER

BALL NOSE END MILLS



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	R	d	L	I		Sıkma Vidası Clamp Screw	Anahtar Key
APMR-P3208-D8-C10-L110	●	8	4	10	110	25	P3208	1208-M3x7	80-T08
APMR-P3210-D10-C12-L130	●	10	5	12	130	30	P3210	1215-M4x0.5x9	80-T15
APMR-P3212-D12-C12-L130	●	12	6	12	130	32	P3212	1220-M5x0.5x12	80-T20
APMR-P3216-D16-C16-L175	●	16	8	16	175	60	P3216	1220-M5x0.5x15	80-T20
APMR-P3220-D20-C20-L200	●	20	10	20	200	100	P3220	1220-M6x0.75x20	AAL-05-4
APMR-P3225-D25-C25-L200	●	25	12.5	25	200	100	P3225	1204-M8x0.75x26	
APMR-P3232-D32-C32-L200	●	32	16	32	200	100	P3232		



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	R	d	L	I		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
APMR-R012-D12-C12-L120	●	12	6	12	120	35	ROHX 1203	1215-M4x0.5x9	80-T15
APMR-R012-D12-C16-L160	●	12	6	16	160	50	ROHX 1604	1215-M5x0.5x12	80-T15
APMR-R016-D16-C16-L160	●	16	8	16	160	45	ROHX 2005	1215-M5x0.5x15	
APMR-R016-D16-C20-L200	●	16	8	20	200	65			
APMR-R020-D20-C20-L160	●	20	10	20	160	55			
APMR-R020-D20-C25-L220	●	20	10	25	220	80			

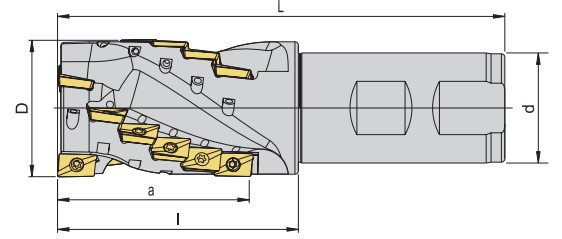
R: Sağ/Right L: Sol/Left ● Stokta/In Stock ○ Stokta Yok/Non Stock Item

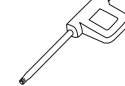
Sipariş Örneği/Ordering Example : 1 ad./pcs. APMR-R012-D12-C12-L120
Kesme Hesabı : S-144 / Cutting Calculation: P-144

S-SİSTEM HELİS FREZELER

S-SYSTEM HELIX END MILLS

90°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)							Kesici Uç Insert	Yedek Parçaları Spare Parts	
		Z		D	d	a	L	I		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
		TOPLAM TOTAL	ETKİLİ EFFECTIVE								
AHM90-AP10-D20-W20-L087-Z06	●	6	2	20	20	28	87	36	 AP.. 1003..	 3008-M2.5x6	 80-T08
AHM90-AP10-D25-W25-L105-Z08	●	8	2	25	25	37	105	47			
AHM90-AP10-D32-W32-L115-Z15	●	15	3	32	32	46	115	54			
AHM90-AP10-D40-W32-L130-Z18-H	●	18	3	40	32	55	130	70			

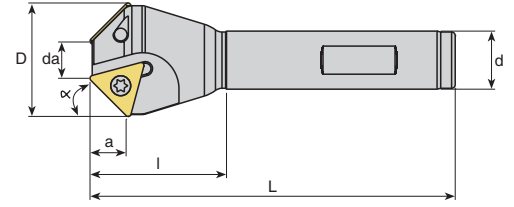
R: Sağ/Right L: Sol/Left ● Stokta/In Stock ○ Stokta Yok/Non Stock Item

Sipariş Örneği/Ordering Example : 1 ad./pcs. AHM90-AP10-D20-W20-L087-Z06
Kesme Hesabı : S-144 / Cutting Calculation: P-144



S-SİSTEM PAH FREZELER

S-SYSTEM CHAMFERING END MILLS



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)								Kesici Uç Insert	Yedek Parçaları Spare Parts	
		α	d_a	D	d	L	l	Z	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
												
ACM45 -TC09-D7X19-W16-L100-Z02	●	45°	7	19	16	100	25	2	6.3			
ACM10 -TC16-D17X20-W16-L90-Z01	●	10°	17	20	16	90	30	1	15.7			
ACM15 -TC16-D17X22-W16-L90-Z01	●	15°	17	22	16	90	30	1	15.4			
ACM17.5 -TC16-D17X24-W16-L90-Z01	●	17.5°	17	24	16	90	30	1	15.2			
ACM20 -TC16-D12X20-W16-L100-Z01	●	20°	12	20	16	100	30	1	15			
ACM20 -TC16-D17X26-W16-L100-Z01	●	20°	17	26	16	100	30	1	15			
ACM22.5 -TC16-D17X28-W16-L100-Z01	●	22.5°	17	28	16	100	30	1	14.7			
ACM25 -TC16-D17X30-W16-L100-Z01	●	25°	17	30	16	100	30	1	14.5			
ACM30 -T C16-D6X20-W16-L100-Z01	●	30°	6	20	16	100	30	1	13.8			
ACM30 -TC16-D20X35-W16-L100-Z02	●	30°	20	35	16	100	35	2	13.8			
ACM30 -TC16-D30X45-W20-L100-Z02	●	30°	30	45	20	100	40	2	13.8			
ACM45 -TC16-D5X23-W16-L100-Z01	●	45°	5	23	16	100	30	1	11.3			
ACM45 -TC16-D10X30-W16-L100-Z02	●	45°	10	30	16	100	35	2	11.3			
ACM45 -TC16-D18X37-W20-L100-Z02	●	45°	18	37	20	100	40	2	11.3			
ACM45 -TC16-D20X40-W20-L100-Z02	●	45°	20	40	20	100	40	2	11.3			
ACM45 -TC16-D30X50-W20-L100-Z02	●	45°	30	50	20	100	40	2	11.3			

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

Sipariş Örneği/Ordering Example : 1 ad./pcs. ACM45-TC09-D7X19-W16-L100-Z02
Kesme Hesabı : S-144 / Cutting Calculation: P-144



Konuşulan Kalite

The Spoken Quality



 **AKKO®**



YÜZEY ve KOPYA FREZELER

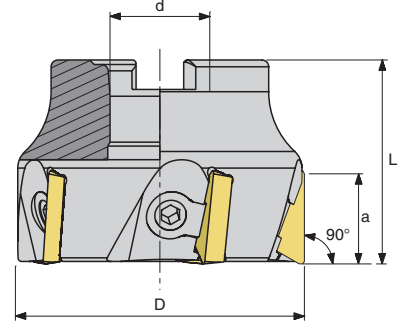
YÜZEY ve KOPYA FREZELER

FACE and COPY MILLING



YÜZEY FREZELER FACE MILLING

90°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts				
		D	z	d	L	a		Baskı Pabucu Wedge Clamp	Baskı Pabuç Vidası Screw	Altık Shim	Altık Vidası Shim Screw	Anahtar Allen Key
AFM90C-TP16-D050-A22-Z04	●	50	4	22	40	12	TP.. 1603..	ACK-10	AKV-13-M8x1x16			
AFM90C-TP16-D063-A22-Z06	●	63	6	22	45	12						
AFM90C-TP16-D080-A27-Z07	●	80	7	27	50	12						
AFM90C-TP16-D100-A32-Z08	●	100	8	32	50	12						
AFM90C-TP22-D063-A22-Z05	●	63	5	22	45	18						
AFM90C-TP22-D080-A27-Z06	●	80	6	27	50	18	TP.. 2204..	ACK-11	AKV-14-M8x1x18	-	-	AAL-05-4
AFM90C-TP22-D100-A32-Z07	●	100	7	32	50	18						
AFM90C-TP22-D125-B40-Z08	●	125	8	40	63	18						
AFM90C-TP22-D160-C40-Z09	●	160	9	40	63	18						
AFM90C-TP22-D200-C60-Z12	●	200	12	60	63	18						
AFM90C-TP22-D250-C60-Z15	●	250	15	60	63	18						
AFM90C-TP22-D315-D60-Z18	●	315	18	60	63	18						
AFM90C-TP22-D063-A22-Z05	○	63	5	22	45	18						
AFM90C-TP22-D080-A27-Z06	○	80	6	27	50	18						
AFM90C-TP22-D100-A32-Z07	○	100	7	32	50	18						
AFM90C-TP22-D125-B40-Z08	○	125	8	40	63	18						
AFM90C-TP22-D160-C40-Z09	○	160	9	40	63	18						
AFM90C-TP22-D200-C60-Z12	○	200	12	60	63	18						
AFM90C-TP22-D250-C60-Z15	○	250	15	60	63	18						
AFM90C-TP22-D315-D60-Z18	○	315	18	60	63	18						

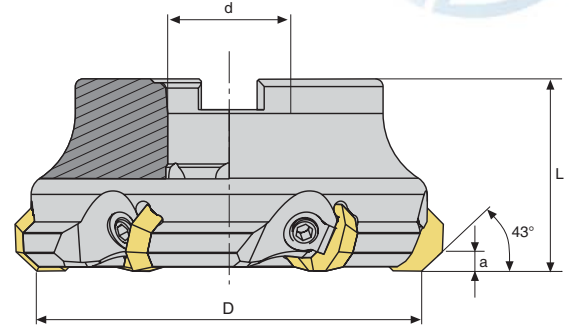
R: Sağ/Right L: Sol/Left ● Stokta/In Stock ○ Stokta Yok/Non Stock Item

Sipariş Örneği/Ordering Example : 1 ad./pcs. AFM90C-TP16-D050-A22-Z04

Kesme Hesabı : S-144 / Cutting Calculation: P-144

Montaj Ölçüleri : S-145 / Mounting Reference : P-145

43°



Takım Kodu
Ordering Code

Stok
Stock

Kater Ölçüleri (mm)
Dimension (mm)

Kesici Uç
Insert

Yedek Parçaları
Spare Parts

Baskı Pabucu
Wedge Clamp

Baskı Vidası
Screw

Anahtar
Allen Key

AFM43C-OF07-D063-A22-Z04

●

63

4

22

40

5

AFM43C-OF07-D080-A27-Z05

●

80

5

27

50

5

AFM43C-OF07-D100-A32-Z06

●

100

6

32

50

5

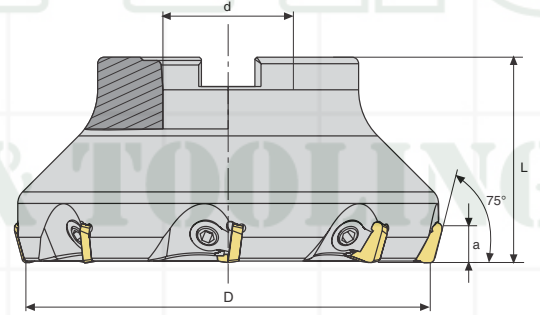
OF.. 0704..

ACK-11

AKV-15-M8x1x20

AAL-05-4

75°



Takım Kodu
Ordering Code

Stok
Stock

Kater Ölçüleri (mm)
Dimension (mm)

Kesici Uç
Insert

Yedek Parçaları
Spare Parts

Baskı Pabucu
Wedge Clamp

Baskı Vidası
Screw

Anahtar
Allen Key

AFM75C-SP12-D050-A22-Z04

●

50

4

22

42

8

AFM75C-SP12-D063-A22-Z05

●

63

5

22

40

8

AFM75C-SP12-D080-A27-Z06

●

80

6

27

50

8

AFM75C-SP12-D100-A32-Z07

●

100

7

32

50

8

AFM75C-SP12-D125-B40-Z08

●

125

8

40

63

8

AFM75C-SP12-D160-C40-Z09

●

160

9

40

63

8

AFM75C-SP12-D200-C60-Z12

●

200

12

60

63

8

SPKN 1203..

ACK-10

AKV-13-M8x1x16

AAL-05-4

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

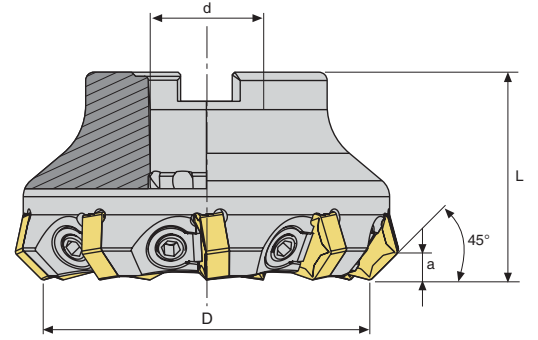
Sipariş Örneği/Ordering Example : 1 ad./pcs. AFM75C-SP12-D050-A22-Z04

Kesme Hesabı : S-144 / Cutting Calculation: P-144

Montaj Ölçüleri : S-145 / Mounting Reference : P-145

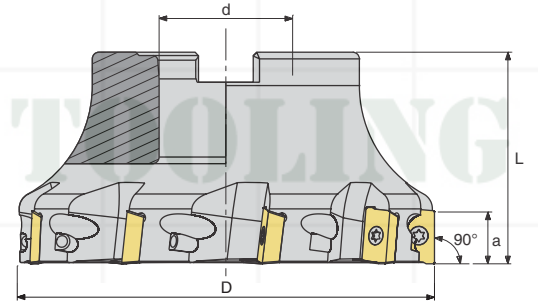
YÜZEY FREZELER FACE MILLING

45°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts		
		D	Z	d	L	a		Baskı Pabucu Wedge Clamp	Baskı Vidası Screw	Anahtar Allen Key
AFM45C-HN09-D063-A22-Z07	●	63	7	22	40	4.5	HN.. 0905..	ACK-11	AKV-14-M8x1x18	AAL-05-4
AFM45C-HN09-D080-A27-Z09	●	80	9	27	50	4.5				
AFM45C-HN09-D100-A32-Z11	●	100	11	32	50	4.5				
AFM45C-HN09-D125-B40-Z13	●	125	13	40	63	4.5				
AFM45C-HN09-D160-C40-Z15	●	160	15	40	63	4.5				

90°

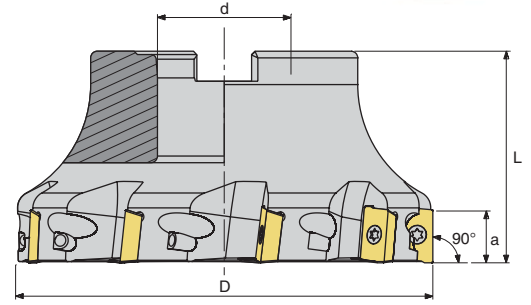


Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM90-R390.11-D040-A16-Z05-H	●	40	5	16	40	11	R390.11T3..	3008-M2.5x6	80-T08
AFM90-R390.11-D050-A22-Z06-H	●	50	6	22	40	11			
AFM90-R390.11-D063-A22-Z07-H	●	63	7	22	40	11			
AFM90-R390.17-D040-A16-Z04-H	●	40	4	16	40	17	R390.1704..	1015-M3.5x9	80-T15
AFM90-R390.17-D050-A22-Z05-H	●	50	5	22	40	17			
AFM90-R390.17-D063-A22-Z06-H	●	63	6	22	40	17			
AFM90-R390.17-D080-A27-Z07-H	●	80	7	27	50	17			
AFM90-R390.17-D100-A32-Z08-H	●	100	8	32	50	17			
AFM90-R390.17-D125-B40-Z09	●	125	9	40	63	17			

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

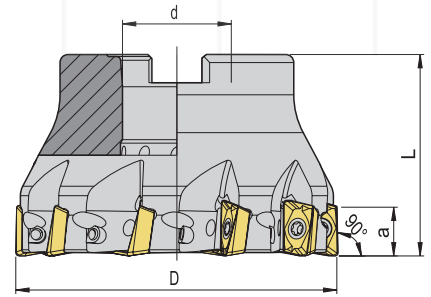
Sipariş Örneği/Ordering Example : 1 ad./pcs. AFM90-R390.11-D040-A16-Z05-H
Kesme Hesabı : S-144 / Cutting Calculation: P-144
Montaj Ölçüleri : S-145 / Mounting Reference : P-145

90°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM90-AP10-D040-A16-Z05-H	●	40	5	16	40	10	AP.. 1003..	3008-M2.5x6	80-T08
AFM90-AP10-D050-A22-Z06-H	●	50	6	22	40	10			
AFM90-AP10-D063-A22-Z07-H	●	63	7	22	40	10			
AFM90-AP10-D080-A27-Z08-H	●	80	8	27	50	10			
AFM90-AP10-D100-A32-Z09-H	●	100	9	32	50	10			
AFM90-AP16-D040-A16-Z04-H	●	40	4	16	40	16	AP.. 1604..	1515-M4x11	80-T15
AFM90-AP16-D050-A22-Z05-H	●	50	5	22	40	16			
AFM90-AP16-D063-A22-Z06-H	●	63	6	22	40	16			
AFM90-AP16-D080-A27-Z07-H	●	80	7	27	50	16			
AFM90-AP16-D100-A32-Z08-H	●	100	8	32	50	16			
AFM90-AP16-D125-B40-Z09	●	125	9	40	63	16			
AFM90-AP16-D160-C40-Z10	●	160	10	40	63	16			

90°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM90-X012-D040-A16-Z05-H	●	40	5	16	40	11	XO.. 1204..	1410-M3.5x9	80-T10
AFM90-X012-D050-A22-Z07-H	●	50	7	22	40	11			
AFM90-X012-D063-A22-Z08-H	●	63	8	22	40	11			
AFM90-X012-D080-A27-Z10-H	●	80	10	27	50	11			

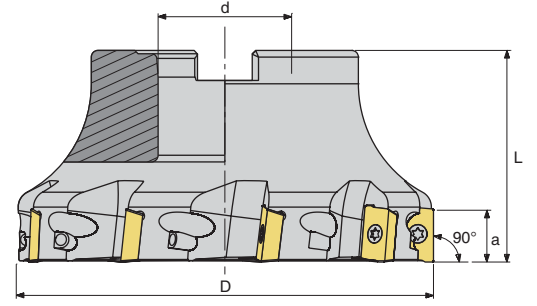
R: Sağ/Right L: Sol/Left ● Stokta/In Stock ○ Stokta Yok/Non Stock Item

Sipariş Örneği/Ordering Example : 1 ad./pcs. AFM90-X012-D040-A16-Z05-H

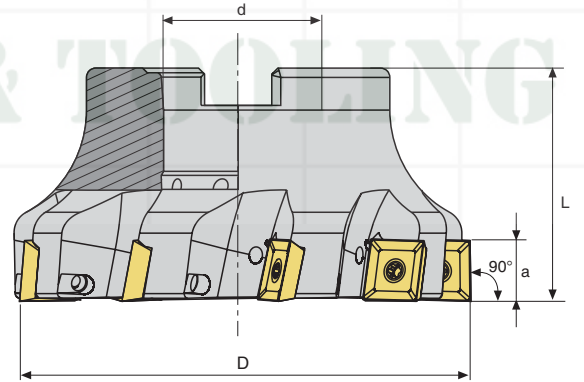
Kesme Hesabı : S-144 / Cutting Calculation: P-144

Montaj Ölçüleri : S-145 / Mounting Reference : P-145

YÜZEY FREZELER FACE MILLING



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM90-AD1505-D040-A16-Z04-H	●	40	4	16	40	15	AD.. 1505	1515-M4x11	80-T15
AFM90-AD1505-D050-A22-Z05-H	●	50	5	22	40	15			
AFM90-AD1505-D063-A22-Z06-H	●	63	6	22	40	15			
AFM90-AD1505-D080-A27-Z07-H	●	80	7	27	50	15			
AFM90-AD1505-D100-A32-Z08-H	●	100	8	32	50	15			
AFM90-AD1505-D125-B40-Z09	●	125	9	40	63	15			

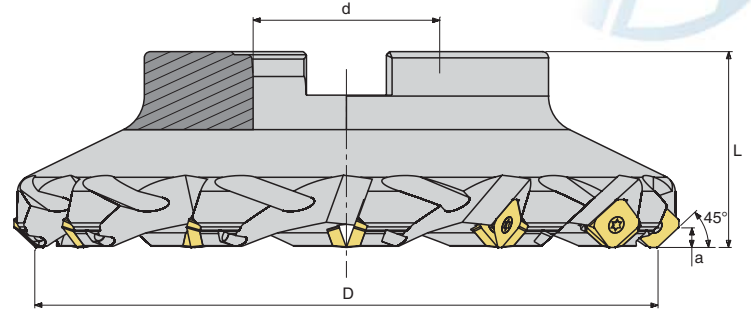


Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM90-SE12-D050-A22-Z04-H	●	50	4	22	40	12	SE..1203.. R290-12T3	1015-M3.5x9	80-T15
AFM90-SE12-D063-A22-Z05-H	●	63	5	22	40	12			
AFM90-SE12-D080-A27-Z07-H	●	80	7	27	50	12			
AFM90-SE12-D100-A32-Z09-H	●	100	9	32	50	12			
AFM90-SE12-D125-B40-Z11	●	125	11	40	63	12			

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

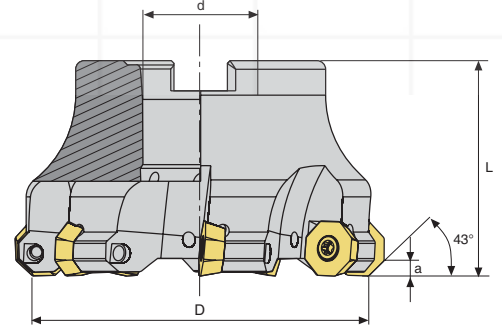
Sipariş Örneği/Ordering Example : 1 ad./pcs. AFM90-SE12-D050-A22-Z04-H
Kesme Hesabı : S-144 / Cutting Calculation: P-144
Montaj Ölçüleri : S-145 / Mounting Reference : P-145

45°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM45-SE12-D050-A22-Z04-H	●	50	4	22	40	6	SE..12T3.. R245-12T3	1015-M3.5x9	80-T15
AFM45-SE12-D063-A22-Z05-H	●	63	5	22	40	6			
AFM45-SE12-D080-A27-Z06-H	●	80	6	27	50	6			
AFM45-SE12-D100-A32-Z07-H	●	100	7	32	50	6			
AFM45-SE12-D125-B40-Z08	●	125	8	40	63	6			
AFM45-SE12-D160-C40-Z10	●	160	10	40	63	6			
AFM45-SE12-D200-C60-Z12	●	200	12	60	63	6			
AFM45-SE14-D063-A22-Z04-H	●	63	4	22	40	7	SE..14M4..	1015-M3.5x9	80-T15
AFM45-SE14-D080-A27-Z05-H	●	80	5	27	50	7			
AFM45-SE14-D100-A32-Z05-H	●	100	5	32	50	7			
AFM45-SE14-D125-B40-Z06	●	125	6	40	63	7			
AFM45-SE14-D160-C40-Z10	●	160	10	40	63	7			

43°



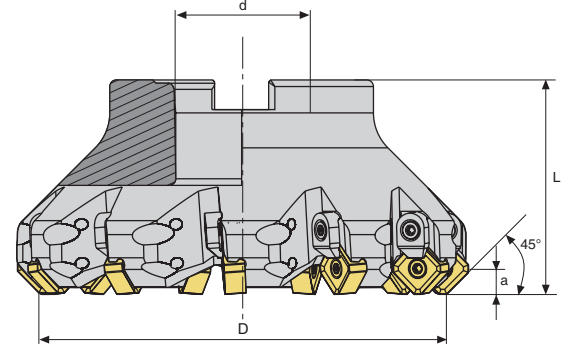
Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM43-OD0504-D040-A16-Z04-H	●	40	4	16	40	3.5	OD.. 0504..	1015-M3.5x9	80-T15
AFM43-OD0504-D050-A22-Z05-H	●	50	5	22	40	3.5			
AFM43-OD0504-D063-A22-Z06-H	●	63	6	22	40	3.5			
AFM43-OD0504-D080-A27-Z07-H	●	80	7	27	50	3.5			
AFM43-OD0504-D100-A32-Z08-H	●	100	8	32	50	3.5			

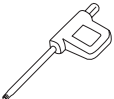
R: Sağ/Right L: Sol/Left ● Stokta/In Stock ○ Stokta Yok/Non Stock Item

Sipariş Örneği/Ordering Example : 1 ad./pcs. AFM43-OD0504-D040-A16-Z04-H
Kesme Hesabı : S-144 / Cutting Calculation: P-144
Montaj Ölçüleri : S-145 / Mounting Reference : P-145

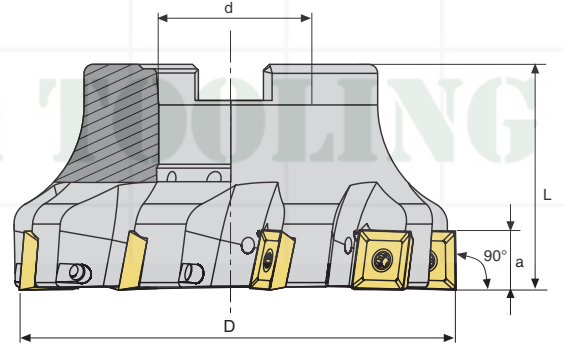
YÜZEY FREZELER FACE MILLING

45°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts			
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Baskı Parçası Wedge Clamp	Baskı Vidası Screw	Tork Anahtar Torx Key
AFM45C-SN1206-D050-A22-Z05-H	●	50	5	22	40	6					
AFM45C-SN1206-D063-A22-Z07-H	●	63	7	22	40	6					
AFM45C-SN1206-D080-A27-Z08-H	●	80	8	27	50	6					
AFM45C-SN1206-D100-A32-Z10-H	●	100	10	32	50	6					
AFM45C-SN1206-D125-B40-Z11	●	125	11	40	63	6					
AFM45C-SN1206-D160-C40-Z12	●	160	12	40	63	6					
AFM45C-SN1206-D200-C60-Z14	●	200	14	60	63	6					
							SN.. 1206..	1515-M4x11	ACK-05	1515-M4x11	80-T15

90°

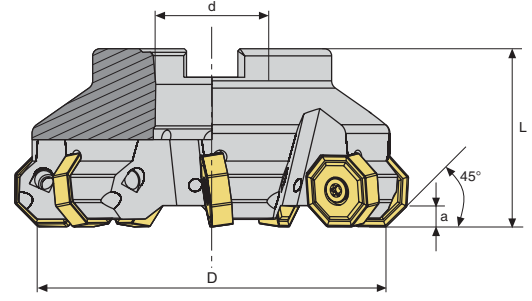


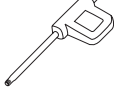
Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts		
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key	
AFM90-SD09-D050-A22-Z05-H	●	50	5	22	40	9				
AFM90-SD09-D063-A22-Z06-H	●	63	6	22	40	9				
AFM90-SD13-D050-A22-Z04-H	●	50	4	22	40	13				
AFM90-SD13-D063-A22-Z05-H	●	63	5	22	40	13				
AFM90-SD13-D080-A27-Z06-H	●	80	6	27	50	13				
AFM90-SD13-D100-A32-Z07-H	●	100	7	32	50	13				
AFM90-SD13-D125-B40-Z08	●	125	8	40	63	13				
AFM90-SD13-D160-C40-Z10	●	160	10	40	63	13				
							SD.. 09M4..	1015-M3.5x9	80-T15	
							SD.. 1305..	1020-M5x11	80-T20	

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

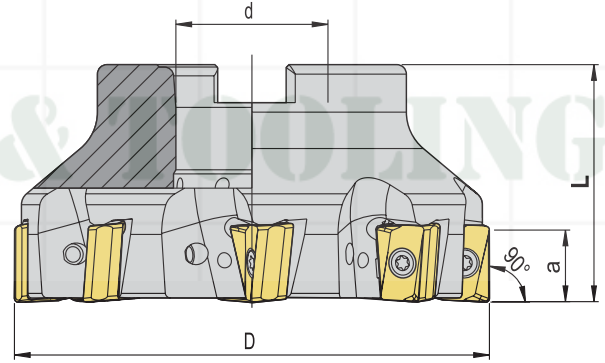
Sipariş Örneği/Ordering Example : 1 ad./pcs. AFM90-SD09-D050-A22-Z05-H
Kesme Hesabı : S-144 / Cutting Calculation: P-144
Montaj Ölçüleri : S-145 / Mounting Reference : P-145

45°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM45-ON08-D063-A22-Z05-H	●	63	5	22	40	4			
AFM45-ON08-D080-A27-Z06-H	●	80	6	27	50	4			
AFM45-ON08-D100-A32-Z07-H	●	100	7	32	50	4			
AFM45-ON08-D125-B40-Z08	●	125	8	40	63	4			
AFM45-ON08-D160-C40-Z10	●	160	10	40	63	4			
AFM45-ON08-D200-C60-Z12	●	200	12	60	63	4			

90°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM90-AN1607-D050-A22-Z04-H	●	50	4	22	40	15			
AFM90-AN1607-D063-A22-Z06-H	●	63	6	22	40	15			
AFM90-AN1607-D080-A27-Z07-H	●	80	7	27	50	15			
AFM90-AN1607-D100-A32-Z08-H	●	100	8	32	50	15			
AFM90-AN1607-D125-B40-Z10	●	125	10	40	63	15			

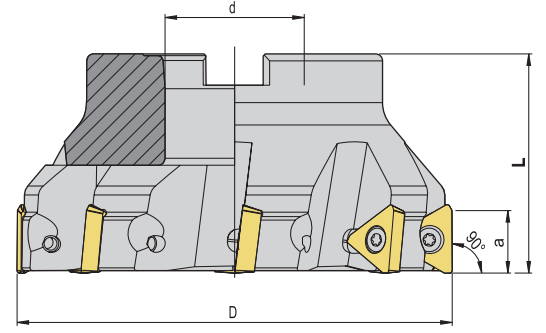
R: Sağ/Right L: Sol/Left ● Stokta/In Stock ○ Stokta Yok/Non Stock Item

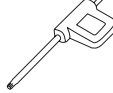
Sipariş Örneği/Ordering Example : 1 ad./pcs. AFM90-AN1607-D050-A22-Z04-H
Kesme Hesabı : S-144 / Cutting Calculation : P-144
Montaj Ölçüleri : S-145 / Mounting Reference : P-145

YÜZEY ve KOPYA FREZELER

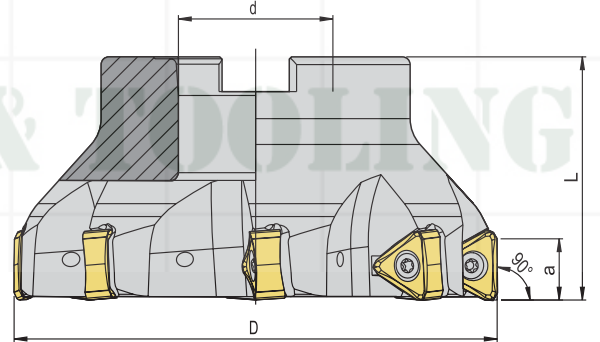
FACE and COPY MILLING

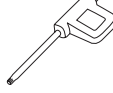
90°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM90-TP2205-D063-A22-Z04	●	63	4	22	40	18			
AFM90-TP2205-D080-A27-Z06	●	80	6	27	50	18			
AFM90-TP2205-D100-A32-Z07	●	100	7	32	50	18			
AFM90-TP2205-D125-B40-Z08	●	125	8	40	63	18			
AFM90-TP2205-D160-C40-Z09	●	160	9	40	63	18			
							TPKT 2205..	1120-M4.5x12	80-T20

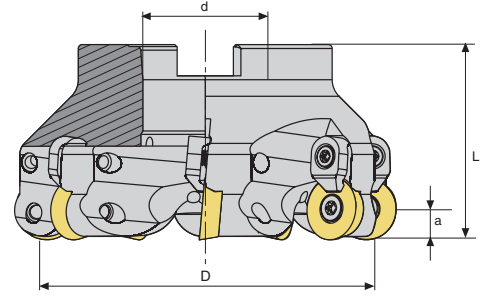
90°



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AFM90-TN2207-D063-A22-Z04-H	●	63	4	22	40	15			
AFM90-TN2207-D080-A27-Z05-H	●	80	5	27	50	15			
AFM90-TN2207-D100-B32-Z06	●	100	6	32	50	15			
AFM90-TN2207-D125-B40-Z08	●	125	8	40	63	15			
							TN.X 2207..	1120-M4.5x12	80-T20

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

Sipariş Örneği/Ordering Example : 1 ad./pcs. AFM90-TN2207-D063-A22-Z04-H
Kesme Hesabı : S-144 / Cutting Calculation: P-144
Montaj Ölçüleri : S-145 / Mounting Reference : P-145



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts			
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Baskı Parçası Wedge Clamp	Baskı Vidası Screw	Tork Anahtar Torx Key
AFMRC-RD1003-D040-A16-Z04-H	●	40	4	16	40	5	RD.. 1003..				
AFMRC-RD1003-D050-A22-Z05-H	●	50	5	22	50	5					
AFMRC-RD1003-D063-A22-Z06-H	●	63	6	22	50	5					
AFMRC-RD1003-D080-A27-Z07-H	●	80	7	27	50	5					
AFMRC-RD1003-D100-A32-Z08-H	●	100	8	32	50	5					
AFMRC-RD12T3-D040-A16-Z04-H	●	40	4	16	40	6	RD.. 12T3..	1015-M3.5x9	ACK-15	1015-M3.5x9	80-T15
AFMRC-RD12T3-D050-A22-Z05-H	●	50	5	22	50	6					
AFMRC-RD12T3-D063-A22-Z06-H	●	63	6	22	50	6					
AFMRC-RD12T3-D080-A27-Z07-H	●	80	7	27	50	6					
AFMRC-RD12T3-D100-A32-Z08-H	●	100	8	32	50	6					
AFMRC-RD12T3-D125-B40-Z09	●	125	9	40	63	6	RD.. 1204..				
AFMRC-RD1204-D40-A16-Z04-H	●	40	4	16	40	6					
AFMRC-RD1204-D050-A22-Z05-H	●	50	5	22	50	6					
AFMRC-RD1204-D052-A22-Z05-H	●	52	5	22	50	6					
AFMRC-RD1204-D063-A22-Z06-H	●	63	6	22	50	6					
AFMRC-RD1204-D080-A27-Z07-H	●	80	7	27	50	6	RD.. 1604..	1015-M4.5x11	ACK-05	1515-M4x11	
AFMRC-RD1204-D100-A32-Z08-H	●	100	8	32	50	6					
AFMRC-RD1604-D052-A22-Z04-H	●	52	4	22	50	8					
AFMRC-RD1604-D063-A22-Z05-H	●	63	5	22	50	8					
AFMRC-RD1604-D080-A27-Z06-H	●	80	6	27	50	8					
AFMRC-RD1604-D100-A32-Z07-H	●	100	7	32	50	8					

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

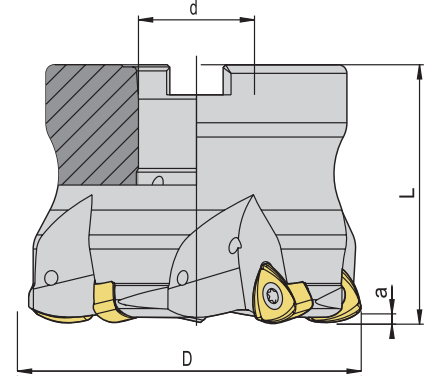
Sipariş Örneği/Ordering Example : 1 ad./pcs. AFMRC-RD1003-D040-A16-Z04-H

Kesme Hesabı : S-144 / Cutting Calculation: P-144

Montaj Ölçüleri : S-145 / Mounting Reference : P-145

HIZLI İLERLEMELİ TAKIMLAR

HIGH FEED MILLING TOOLS

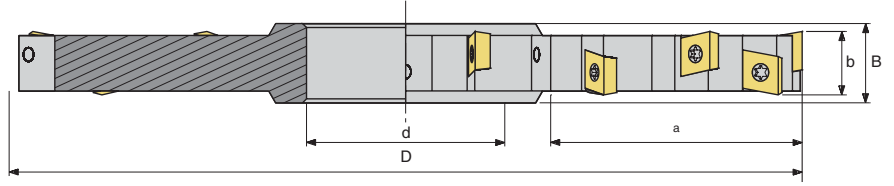


Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)					Kesici Uç Insert	Yedek Parçaları Spare Parts	
		D	Z	d	L	a		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
AHFM-BL1205-D050-A22-Z03-H	●	50	3	22	40	2			
AHFM-BL1205-D063-A22-Z04-H	●	63	4	22	40	2			
AHFM-BL1205-D080-A27-Z05-H	●	80	5	27	50	2			
							BLMP 1205	1515-M4x11	80-T15

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

Sipariş Örneği/Ordering Example : 1 ad./pcs. AHFM-BL1205-D050-A22-Z03-H
Kesme Hesabı : S-144 / Cutting Calculation: P-144
Montaj Ölçüleri : S-145 / Mounting Reference : P-145





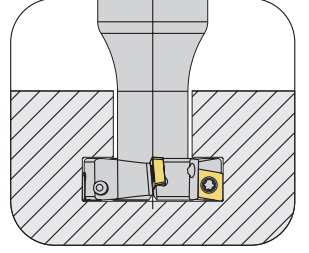
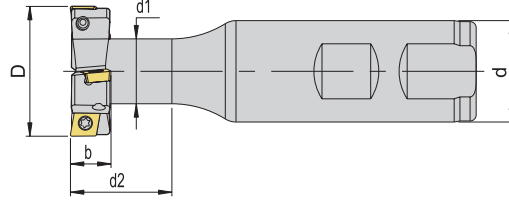
Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)							Kesici Uç Insert	Yedek Parçaları Spare Parts	
		Z	D	b	a	d	B	Sıkma Vidası Clamp Screw		Tork Anahtar Torx Key	
											TOPLAM TOTAL
ASDM-SPM05-D80x6 -d27-Z10	●	10	5	80	6	17	27	10	SPMT 050203	3006-M2x4	80-T06
ASDM-SPM05-D100x6-d32-Z12	●	12	6	100	6	25	32	10			
ASDM-SPM05-D125x6-d40-Z14	●	14	7	125	6	35	40	10			
ASDM-SPM05-D160x6-d40-Z18	○	18	9	160	6	52	40	10			
ASDM-SPM06-D80x7 -d27-Z10	●	10	5	80	7	17	27	11	SPMT 060204	3007-M2.2x5	80-T07
ASDM-SPM06-D100x7-d32-Z12	●	12	6	100	7	25	32	11			
ASDM-SPM06-D125x7-d40-Z14	●	14	7	125	7	35	40	11			
ASDM-SPM06-D160x7-d40-Z16	○	16	8	160	7	52	40	11			
ASDM-SPM06-D200x7-d40-Z18	○	18	9	200	7	70	40	11	CC..0602..	3008-M2.5x6	80-T08
ASDM-CC06-D80x8 -d27-Z10	●	10	5	80	8	17	27	12			
ASDM-CC06-D100x8 -d32-Z12	●	12	6	100	8	25	32	12			
ASDM-CC06-D125x8 -d40-Z14	●	14	7	125	8	35	40	12			
ASDM-CC06-D160x8 -d40-Z16	●	16	8	160	8	52	40	12	CC..09T3..	1015-M3.5x9	80-T15
ASDM-CC06-D200x8 -d40-Z18	●	18	9	200	8	70	40	12			
ASDM-CC06-D80x10 -d27-Z10	●	10	5	80	10	17	27	14			
ASDM-CC06-D100x10 -d32-Z12	●	12	6	100	10	25	32	14			
ASDM-CC06-D125x10 -d40-Z14	●	14	7	125	10	35	40	14	CC..1204..	1020-M5x11	80-T20
ASDM-CC06-D160x10 -d40-Z16	○	16	8	160	10	52	40	14			
ASDM-CC06-D200x10 -d40-Z18	●	18	9	200	10	70	40	14			
ASDM-CC09-D80x12 -d27-Z08	●	8	4	80	12	17	27	16			
ASDM-CC09-D100x12 -d32-Z10	●	10	5	100	12	25	32	16	CC..1204..	1020-M5x11	80-T20
ASDM-CC09-D125x12 -d40-Z12	●	12	6	125	12	35	40	16			
ASDM-CC09-D160x12 -d40-Z14	●	14	7	160	12	52	40	16			
ASDM-CC09-D200x12 -d40-Z18	●	18	9	200	12	70	40	16			
ASDM-CC09-D80x14 -d27-Z08	●	10	5	80	14	17	27	18	CC..1204..	1020-M5x11	80-T20
ASDM-CC09-D100x14 -d32-Z10	●	12	6	100	14	25	32	18			
ASDM-CC09-D125x14 -d40-Z12	●	14	7	125	14	35	40	18			
ASDM-CC09-D160x14 -d40-Z14	○	16	8	160	14	52	40	18			
ASDM-CC09-D200x14 -d40-Z18	●	18	9	200	14	70	40	18	CC..1204..	1020-M5x11	80-T20
ASDM-CC12-D80x16 -d27-Z06	●	6	3	80	16	17	27	20			
ASDM-CC12-D100x16 -d32-Z08	○	8	4	100	16	25	32	20			
ASDM-CC12-D125x16 -d40-Z10	●	10	5	125	16	35	40	20			
ASDM-CC12-D160x16 -d40-Z12	○	12	6	160	16	52	40	20	CC..1204..	1020-M5x11	80-T20
ASDM-CC12-D200x16 -d40-Z14	●	14	7	200	16	70	40	20			
ASDM-CC12-D80x18 -d27-Z06	○	6	3	80	18	17	27	22			
ASDM-CC12-D100x18 -d32-Z08	●	8	4	100	18	25	32	22			
ASDM-CC12-D125x18 -d40-Z10	●	10	5	125	18	35	40	22	CC..1204..	1020-M5x11	80-T20
ASDM-CC12-D160x18 -d40-Z12	●	12	6	160	18	52	40	22			
ASDM-CC12-D200x18 -d40-Z14	●	14	7	200	18	70	40	22			
ASDM-CC12-D250x18 -d40-Z16	●	16	8	250	18	90	40	22			
ASDM-CC12-D80x20 -d27-Z06	○	6	3	80	20	17	27	24	CC..1204..	1020-M5x11	80-T20
ASDM-CC12-D100x20 -d32-Z08	●	8	4	100	20	25	32	24			
ASDM-CC12-D125x20 -d40-Z10	●	10	5	125	20	35	40	24			
ASDM-CC12-D160x20 -d40-Z12	●	12	6	160	20	52	40	24			
ASDM-CC12-D200x20 -d40-Z14	●	14	7	200	20	70	40	24	CC..1204..	1020-M5x11	80-T20
ASDM-CC12-D250x20 -d40-Z16	●	16	8	250	20	90	40	24			

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

Sipariş Örneği/Ordering Example : 1 ad./pcs. ASDM-SPM05-D80x6-d27-Z10
Kesme Hesabı : S-144 / Cutting Calculation: P-144

T KANAL FREZELER

T SLOT MILLING



Takım Kodu Ordering Code	Stok Stock	Kater Ölçüleri (mm) Dimension (mm)								Kesici Uç Insert	Yedek Parçaları Spare Parts	
		Z		D	b	d	L	d ₁	d ₂		Sıkma Vidası Clamp Screw	Tork Anahtar Torx Key
		TOPLAM TOTAL	ETKİLİ EFFECTIVE									
ATSM90-CC06-D17X8- W16-L85- Z02	●	2	1	17	8	16	85	10	16			
ATSM90-CC06-D32X8- W25-L100-Z04	●	4	2	32	8	25	100	16	23			
ATSM90-CC06-D63X8- W32-L125-Z08	●	8	4	63	8	32	125	31.5	30			
ATSM90-CC06-D18X9- W16-L90- Z02	●	2	1	18	9	16	90	10	16			
ATSM90-CC06-D20X9- W16-L85- Z04	●	4	2	20	9	16	85	10	16			
ATSM90-CC06-D23X10- W20-L90- Z04	●	4	2	23	10	20	90	12	25			
ATSM90-CC06-D32X10- W25-L100-Z04	●	4	2	32	10	25	100	16	25			
ATSM90-CC06-D45X10- W32-L120-Z06	●	6	3	45	10	32	120	20	25			
ATSM90-CC06-D25X11- W25-L100-Z04	●	4	2	25	11	25	100	13	20	CC.. 0602..	3008-M2.5x6	80-T08
ATSM90-CC09-D30X12- W25-L100-Z04	●	4	2	30	12	25	100	16	25			
ATSM90-CC09-D32X12- W25-L100-Z04	●	4	2	32	12	25	100	16	25			
ATSM90-CC09-D32X14- W25-L100-Z04	●	4	2	32	14	25	100	16	25			
ATSM90-CC09-D37X16- W32-L120-Z04	●	4	2	37	16	32	120	17	30			
ATSM90-CC09-D42X17- W32-L120-Z04	●	4	2	42	17	32	120	19	30			
ATSM90-CC09-D40X18- W32-L120-Z04	○	4	2	40	18	32	120	19	30			
ATSM90-CC12-D47X20- W32-L120-Z04	●	4	2	47	20	32	120	25	45			
ATSM90-CC12-D52X21- W32-L120-Z04	●	4	2	52	21	32	120	25	45	CC.. 1204..	1020-M5x11	80-T20
ATSM90-CC12-D50X22- W32-L120-Z04	○	4	2	50	22	32	120	25	45			
ATSM90-CC12-D55X22- W32-L120-Z04	●	4	2	55	22	32	120	25	45			

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

Sipariş Örneği/Ordering Example : 1 ad./pcs. ATSM90-CC06-D17X8-W16-L85-Z02
Kesme Hesabı : S-144 / Cutting Calculation: P-144

