Sipariş Kodu / Ordering Code

WMAS - TB - 020 - _ _ _ _ - _ _ _ _ - _ _ - _ _ _ - _ _ - _ _

1	2	3	4	5	6	7	8
Model Model	**Tahrik Birimi** Drive Unit	**Boyut** Size	**Strok** Stroke	**İlerleme** Lead	**Tahrik Yönü** Driving Side	**Bağlantı Kiti Modeli** Mounting Kit Model	**Bağlantı Kiti Montaj** Mounting Kit Assembly

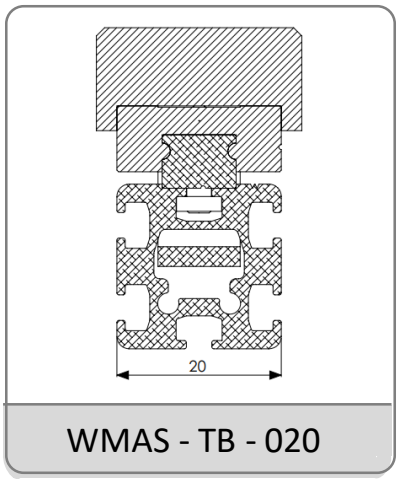
1 - Model / Model

WMAS: Kayışlı Modül / Belt Driven Linear Module

2 - Tahrik Birimi / Drive Unite

TB: Triger Kayış / Timing Belt

3 - Boyut / Size



WMAS - TB - 020

4 - Strok / Stroke

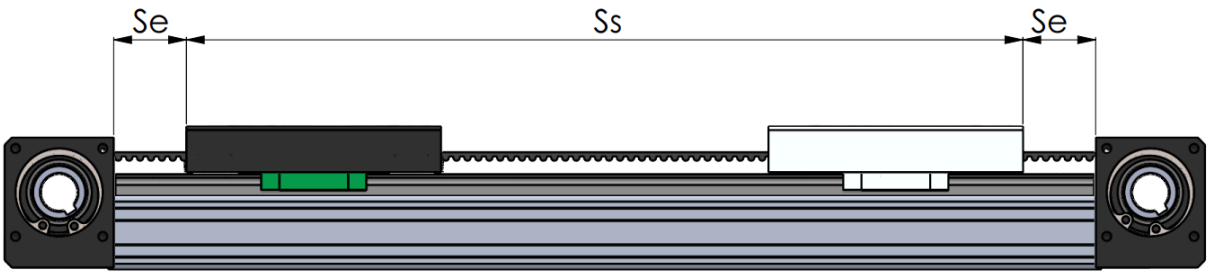
0000: Maksimum 1000 mm / *Maximum 1000 mm*

Haraket Stroku / Movement Stroke

İstenilen çalışma stokuna ek olarak Ss ölçüsü kadar her iki tarafta da boşluk bırakılması tavsiye edilir.
In addition to the desired movement stroke, it is recommended to leave a space on both sides until Ss.

Sm = Se + 2.Ss
Ss = 50 mm

Sm : Haraket Stroku / *Movement Stroke*
Se : Etkin Hareket Stroku / *Safety Stroke*



5 - İlerleme / Lead

60 : 60 mm/devir / *60 mm/rev*

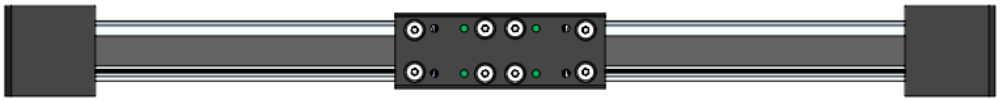
Sipariş Kodu / Ordering Code

WMAS - TB - 020 - _ _ _ _ - _ _ _ _ - _ _ - _ _ _ - _ _ - _ _

1	2	3	4	5	6	7	8
Model Model	**Tahrik Birimi** Drive Unit	**Boyut** Size	**Strok** Stroke	**İlerleme** Lead	**Tahrik Yönü** Driving Side	**Bağlantı Kiti Modeli** Mounting Kit Model	**Bağlantı Kiti Montaj** Mounting Kit Assembly

6 - Tahrik Yönü / Ordering Code

00 - Standart / Standard



7 - Bağlantı Kiti Modeli / Mounting Kit Model

00 : Bağlantı Kitsiz (STANDART)
Without Mounting (Standard)

01 : WDAK Eksenel Kit
Axial Kit

Not 1 : Farklı motor tipleri ve ölçüleri için irtibata geçiniz. *Note 1 : Please contact for different motor types and mounting sizes.*

Not 2 : Redüktörlü ürünler kullanmak için irtibata geçiniz. *Note 2 : Please contact for to use gearbox.*

8 - Bağlantı Kiti Montaj / Mounting Kit Assembly

00 : Motorsuz (Standart)
Without Motor (Standard)

WINMAN WMAS-020 Serisi Triger Kayışlı Modüller / WMAS-020 Series Timing Belt Driven Linear Modules

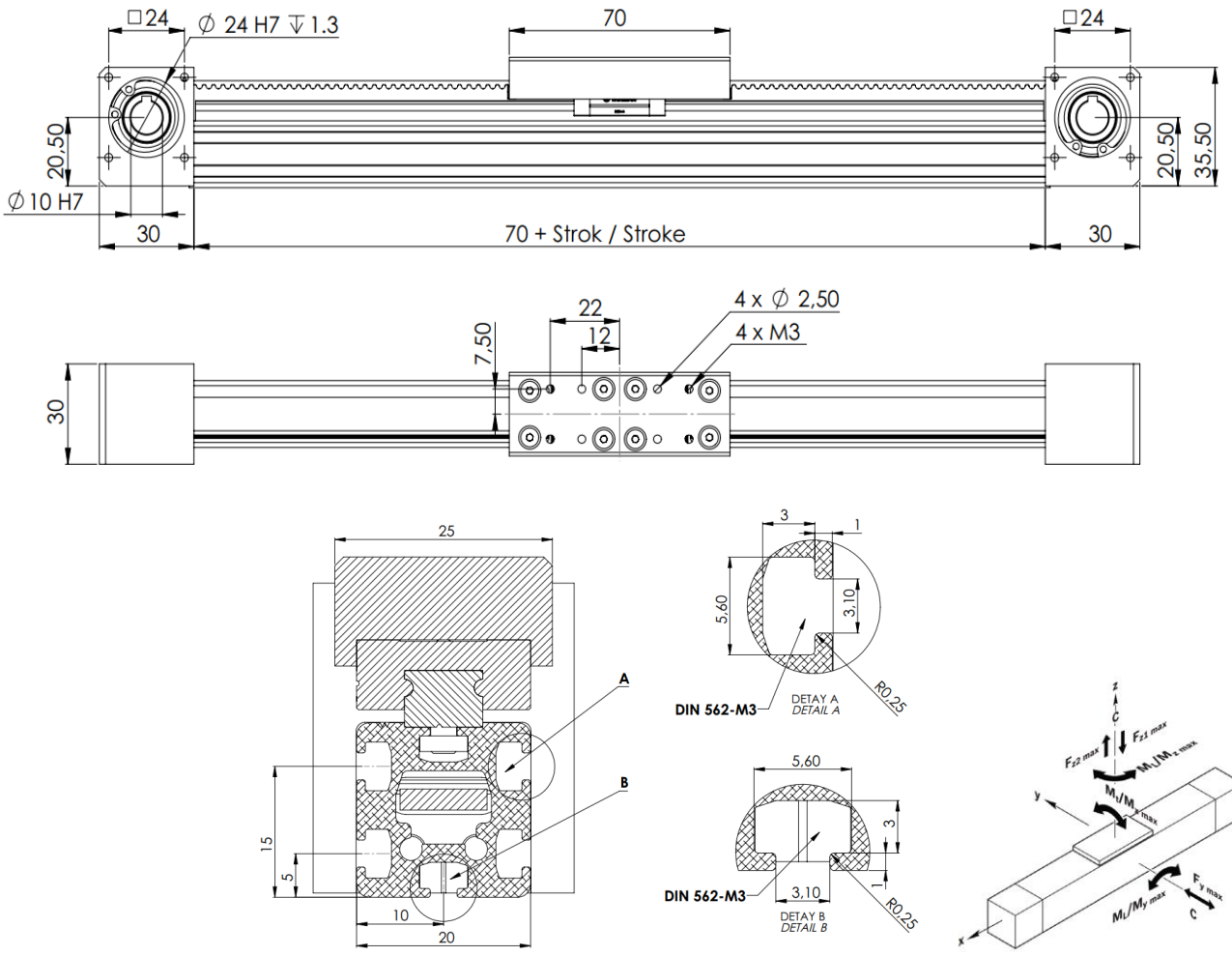
Özellikler / Specification	Profilden Montaj Mounting by the Profile
Maksimum Strok / Maximum Stroke [mm]	**1000**
Minimum Strok / Minimum Stroke [mm]	**60**
Tekrarlama Hassasiyeti / Repeating Accuracy [mm]	**< 0,1**
Çalışma Hızı / Speed [m/s]	**≤ 3,0**
İvmelenme Max / Acceleration [m/s^2]	**30**
Dinamik Yük Kapasitesi / Dynamic Load Capacity [Nm] / C_{dy}	**83**

Not : Verilen değerler teorik değerlerdir. Emniyet katsayısını 5 almanızı öneririz.
Note : Calculated value are theorical values. We recommend you to calculate safety factor as five (5).

Eksenlerde İzin Verilen Maximum Moment / Maximum Permissible Torsional Moment Around The Axis [Nm]		
M_X max	**M_Y max**	**M_Z max**
0,7	**0,5**	**0,6**

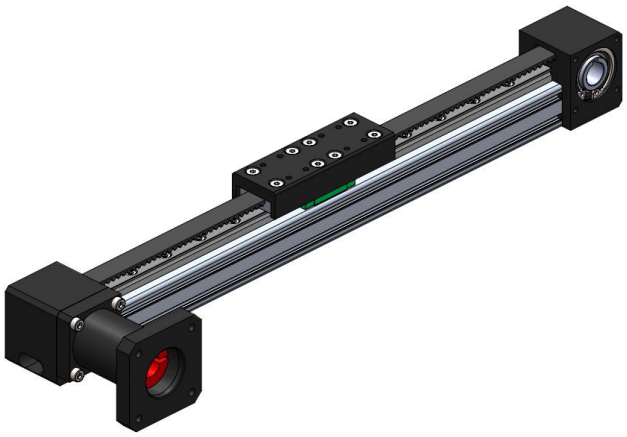
Eksenlerde Maximum Dinamik Yük / Maximum Dynamic Load in Directions [N]		
F_x max	**F_Y max**	**F_Z max**
166	**166**	**166**

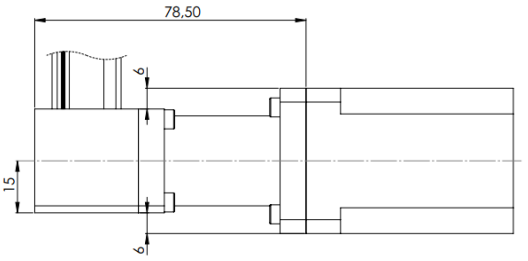
Teknik Çizim / Technical Drawing

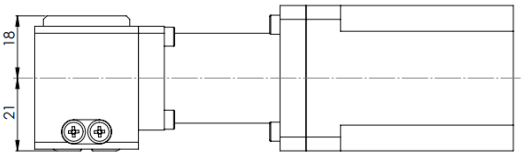


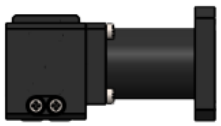
WDAK Eksenel Bağlantı Kiti / WDAK Axial Mounting Kit

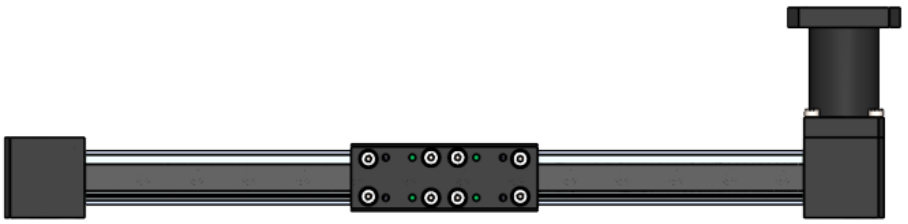
Teknik Çizim / Technical Drawing





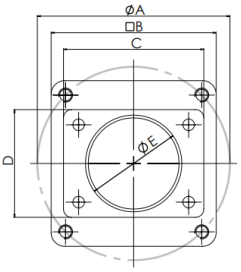


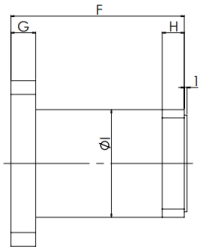


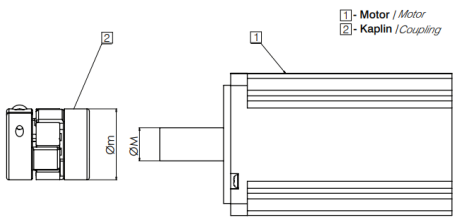


Kampana - Kaplin / Bellhousing - Coupling

Motor Bağlantı / Motor Mounting



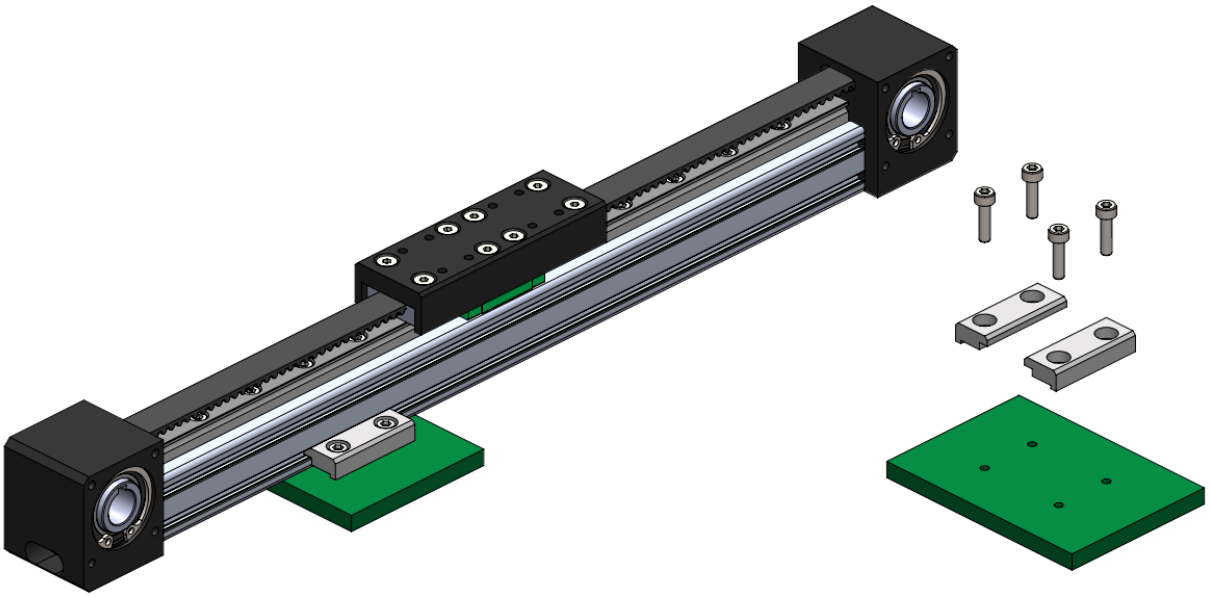




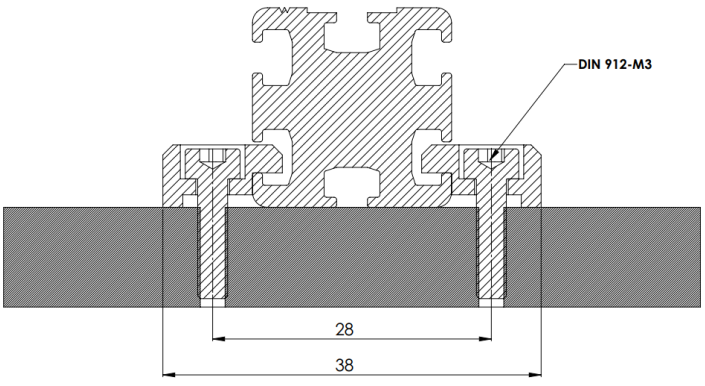
Motor Tipi Motor Type	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**
–	–	–	30	30	62	48,5	7,5	7,5

Motor Tipi Motor Type	**M**	**m**	**Kaplin Modeli** Coupling Model
–	–	20	**WJM - 20CRD**

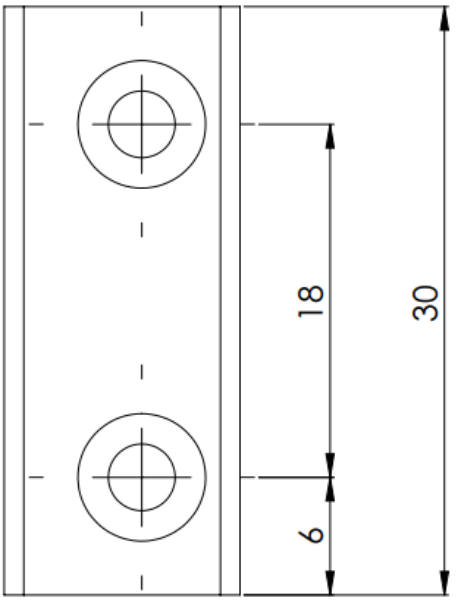
Montaj / Assembly



Montaj Bağlantı Aparatı / Mounting Bracket

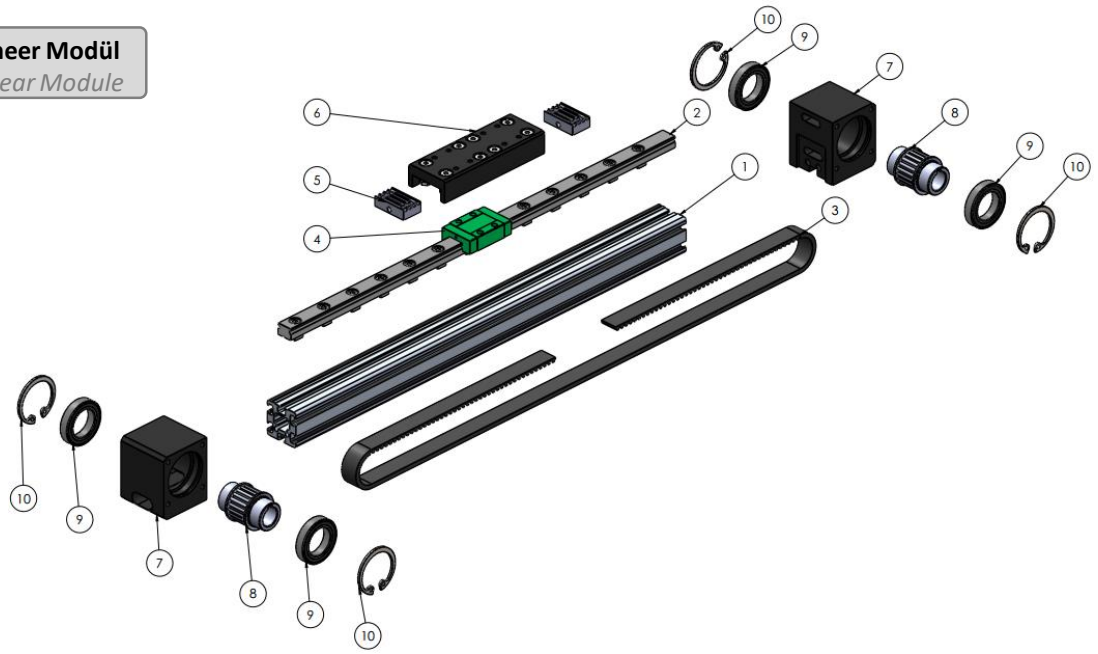


WMAS 020 Sabitleme Braketi
Clamping Fixtures

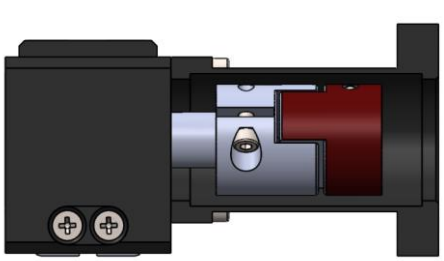


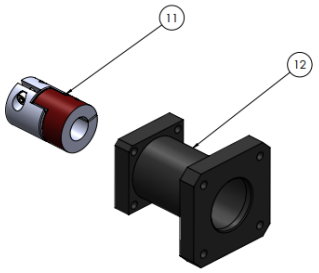
Montaj / Assembly

WMAS Lineer Modül
WMCS Linear Module



WDAK Eksenel Kit
WDAK Axial Kit





Parça / *Piece*	**Miktar** / *Qty*	**Parça Adı** / ***Part Name***	**Montaj** / ***Assembly***
1	**1**	**Profil** / *Profile*	**Modül** *Module*
2	**1**	**Lineer Ray** / *Ball Screw*	
3	**1**	**Kayış** / *Belt*	
4	**1**	**Lineer Araba**/ *Linear Carriage*	
5	**2**	**Kayış Bağlantı Parçası** / *Belt Mounting Parts*	
6	**1**	**Bağlantı Plakası** / *Mounting Plate*	
7	**2**	**Kapak** / *Block*	
8	**2**	**Transmisyon Kasnağı** / *Transmission Pulley*	
9	**2**	**Rulman** / *Bearing*	
10	**2**	**Emniyet Segmanı** / *Security Clip*	
11	**1**	**Kaplin** / *Coupling*	**Eksenel Kit** *Axial Kit*
12	**1**	**Kampana** / *Kampana*	

Bakım / Maintenance

- İlk yağlama montaj sırasında yapılır.
Basic lubrication is done in-factory before shipment.

- Taşıyıcıdaki dişli kasnakları yataklayan rulmanlar normal çalışma koşullarında tekrardan yağlama gerektirmez.
The bearings that support the gear pulleys on the carrier are not necessary relubricating under normal operating conditions.

- Kompak modüller sadece uygun gres yağlar ile yağlanmalıdır.
Compact modules are designed for grease lubricants only!

- Lityum içerikli gres yağlar kullanılmalıdır.
Lithium soap grease should be used.

- Dikkat: grafit ya da MoS içeren gresler tercih etmeyiniz!
Caution: Do not use grease containing graphite or MoS!

- Yağlama, her 400 çalışma saatinde ya da 800 km çalışma mesafesine ulaşıldığında yapılır.
Lubrication is performed every 400 hours or 800 km total working distance by normal operating conditions.

- Yağlama miktarı normal çalışma koşullarına göre tabloda verilmiştir.
Lubrication quantity is provided in table by normal operating conditions.

- Kayış gergi ayarı; montaj sırasında fabrikada yapılır. Bakım sırasında kayış gerginliğini ayarlamak için bilgi alınız.
Belt tension adjustment; It is done at the factory during assembly. Get information to adjust the belt tension during maintenance

- Yağlamadan sonra lineer modülü, strok mesafesi boyunca en az üç kez hareket ettirin. Bu esnada hareket hızı 10 mm/s değerini aşmamalıdır.
After lubrication, move the linear module along the stroke distance at least three times. Meanwhile, the moving speed should not exceed 10 mm/s.

Normal Çalışma Koşulları / Normal Working Conditions

Not : Tabloda belirtilen yağlama miktarı normal çalışma koşulları için geçerlidir. Farklı çalışma koşullarında yağlama miktarı değişkenlik gösterebilir. Farklı çalışma şartlarında ki yağlama miktarı için bilgi alınız.
Note : The lubrication quantity specified in the table is valid for normal operating conditions. The lubrication quantity may vary in different operating conditions. Get information for the lubrication quantity in different working conditions.

Ortam Sıcaklığı / Ambient Temberature	**°C**	**10 ~ 40**
Çalışma Hızı / Speed	**m/s**	**≤ 3,0**
Yük / Load	**kN**	**≤ 0,2 C**
Strok / Stroke	**mm**	**> 60**
Yağlama Periyodu / Lubrication Period	**km**	**800**
	hour	**400**
Yağlama Miktarı / Lubrication Dose	**cm³**	**0,7**

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