Ordering Code

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

1	2	3	4	5	6	7	8
Model	Drive Unit	Size	Stroke	Lead	Driving Side	Mounting Kit Model	Mounting Kit Assembly

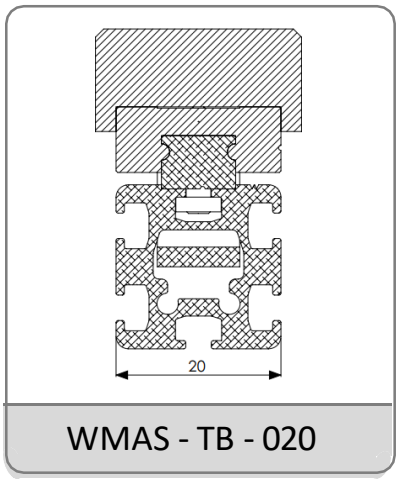
1 - Model

WMAS: Belt Driven Linear Module

2 - Drive Unite

TB: Timing Belt

3 - Size



WMAS - TB - 020

4 - Stroke

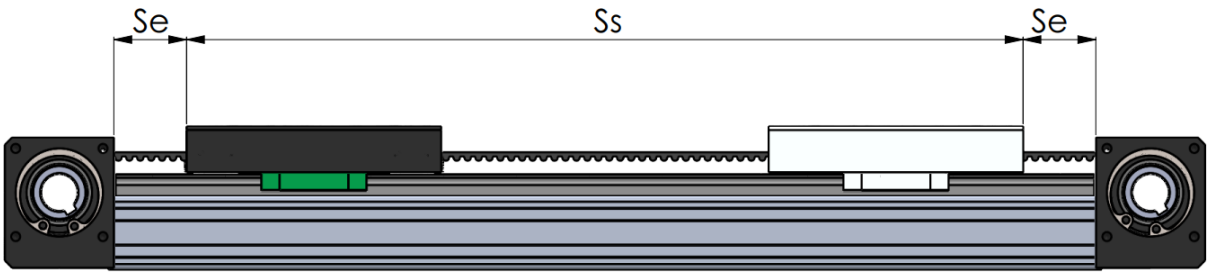
0000: Maximum 1000 mm

Movement Stroke

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 : Movement Stroke
Se : Safety Stroke



5 - Lead

60 : 60 mm/rev

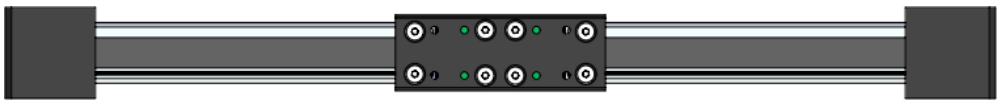
Ordering Code

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

1	2	3	4	5	6	7	8
Model	Drive Unit	Size	Stroke	Lead	Driving Side	Mounting Kit Model	Mounting Kit Assembly

6 - Ordering Code

00 - Standard



7 - Mounting Kit Model

00 : Without Mounting (Standard)

01 : Axial Kit

Note 1 : Please contact for different motor types and mounting sizes.

Note 2 : Please contact for to use gearbox.

8 - Mounting Kit Assembly

00 : Without Motor (Standard)

WINMAN WMAS-020 Series Timing Belt Driven Linear Modules

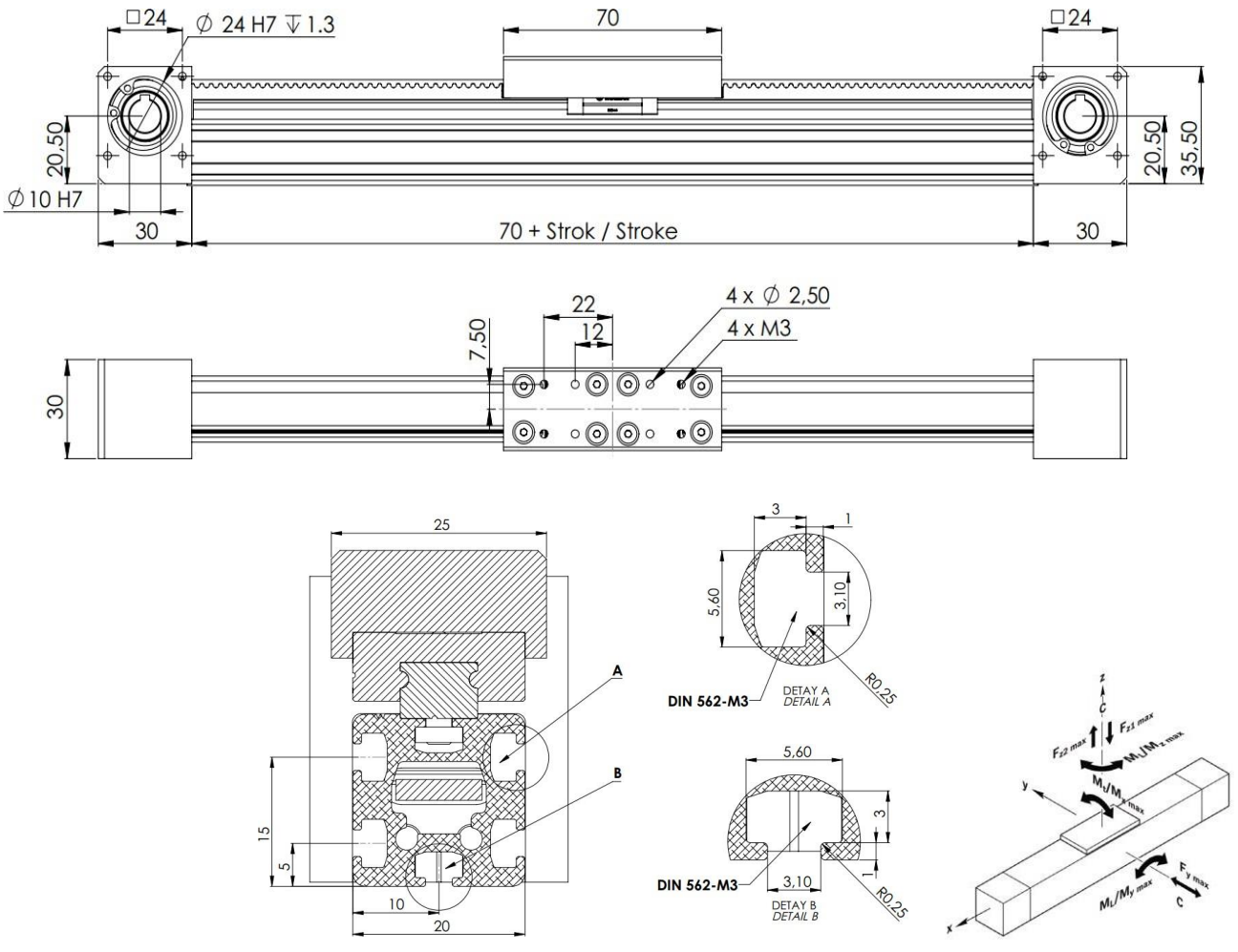
Specification	Mounting by the Profile
Maximum Stroke [mm]	1000
Minimum Stroke [mm]	60
Repeating Accuracy [mm]	< 0,1
Speed [m/s]	≤ 3,0
Acceleration [m/s²]	30
Dynamic Load Capacity [Nm] / C_{dy}	83

Maximum Permissible Torsional Moment Around The Axis [Nm]		
M_X max	M_Y max	M_Z max
0,7	0,5	0,6

Maximum Dynamic Load in Directions [N]		
F_x max	F_Y max	F_Z max
166	166	166

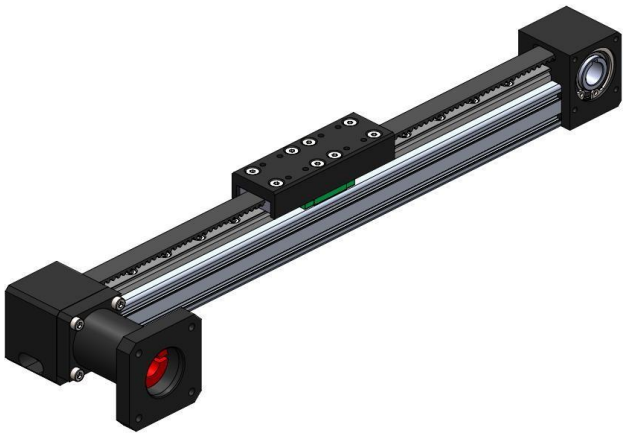
Note : Calculated value are theorical values. We recommend you to calculate safety factor as five (5).

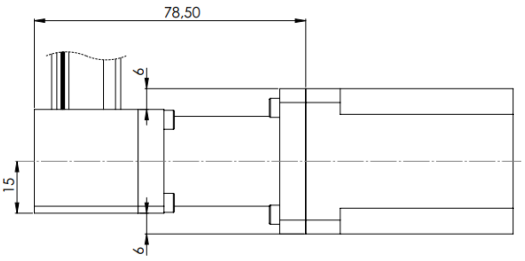
Technical Drawing

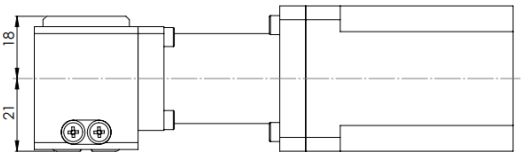


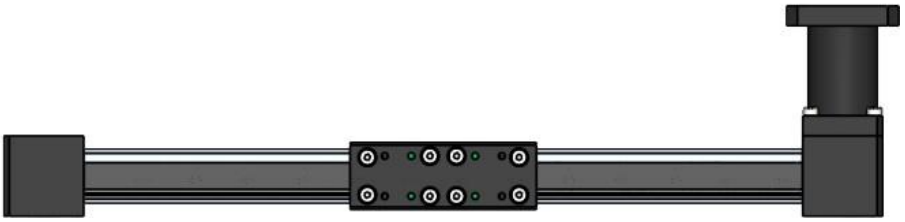
WDAK Axial Mounting Kit

Technical Drawing



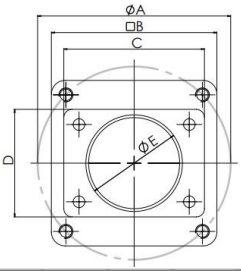


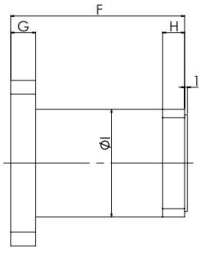


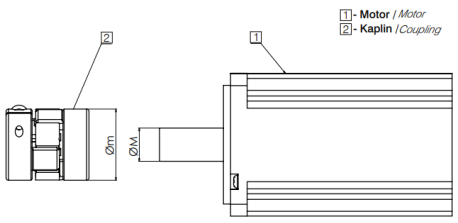


Bellhousing - Coupling

Motor Mounting

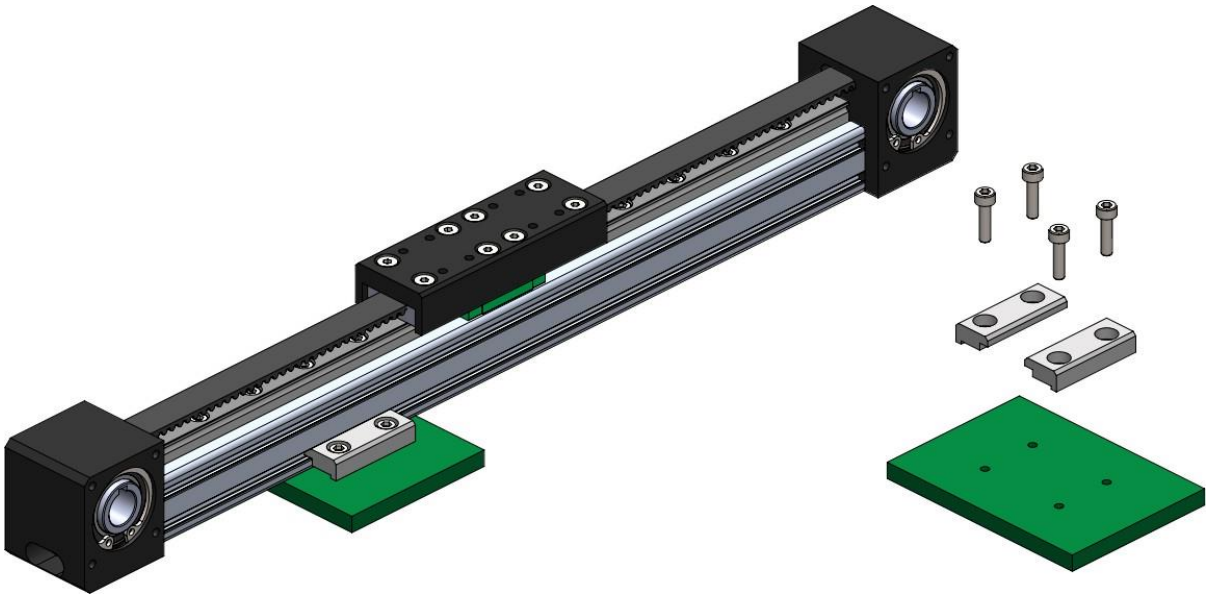




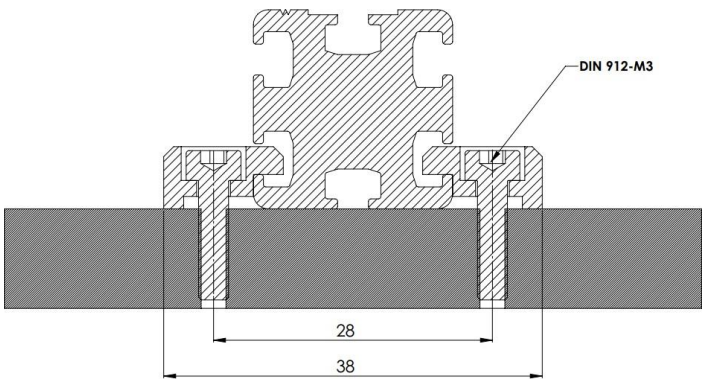


Motor Type	A	B	C	D	E	F	G	H	Motor Type	M	m	Coupling Model
–	–	–	30	30	62	48,5	7,5	7,5	–	–	20	WJM - 20CRD

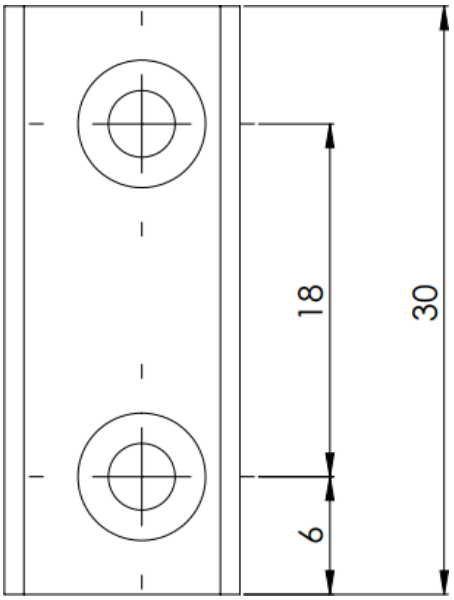
Assembly



Mounting Bracket

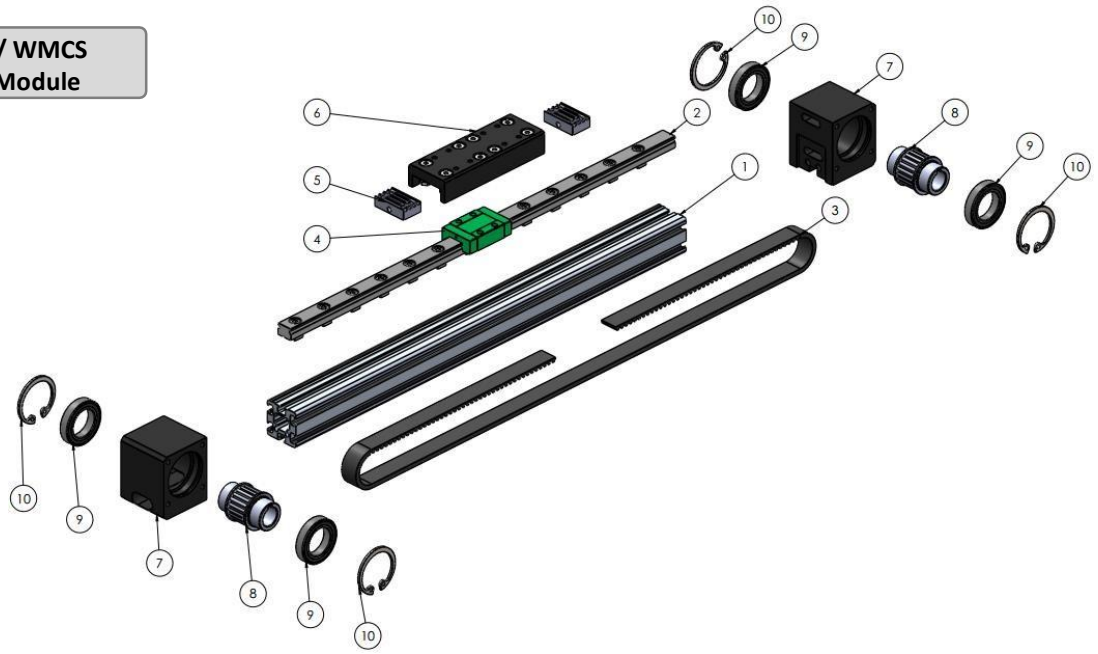


WMAS 020 Clamping Fixtures

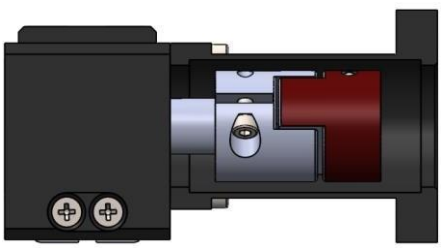


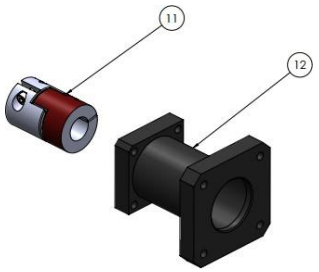
Assembly

WMAS / WMCS Linear Module



WDAK Axial Kit





Piece	Qty	Part Name	Assembly
1	1	Profile	Module
2	1	Ball Screw	
3	1	Belt	
4	1	Linear Carriage	
5	2	Belt Mounting Parts	
6	1	Mounting Plate	
7	2	Block	
8	2	Transmission Pulley	
9	2	Bearing	
10	2	Security Clip	
11	1	Coupling	Axial Kit
12	1	Bell housing	

Maintenance

Basic lubrication is done in-factory before shipment.

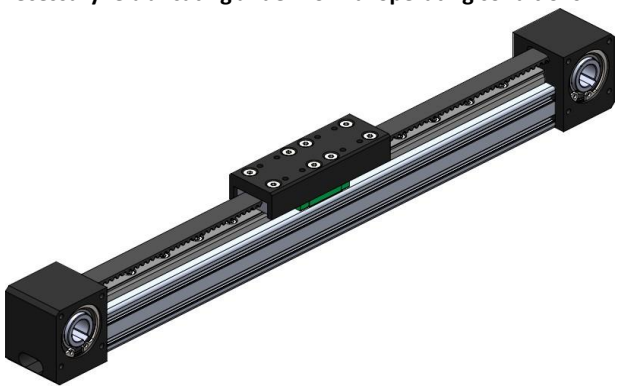
The bearings that support the gear pulleys on the carrier are not necessary relubricating under normal operating conditions.

Compact modules are designed for grease lubricants only!

Lithium soap grease should be used.

Caution: Do not use grease containing graphiteor MoS!

Lubrication is performed every 400 hours or 800 km total working distance by normal operating conditions.



Lubrication quantity is provided in table by normal operating conditions.

Belt tension adjustment; It is done at the factory duringassembly. Get informationto adjust the belt tension during maintenance

After lubrication, move the linear module along the stroke distanceat least three times. Meanwhile, the moving speed should not exceed 10 mm/s.

Normal Working Conditions

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.

Ambient Temberature	**°C**	**10 ~ 40**
Speed	**m/s**	**≤ 3,0**
Load	**kN**	**≤ 0,2 C**
Stroke	**mm**	**> 60**
Lubrication Period	**km**	**800**
	hour	**400**
Lubrication Dose	**cm³**	**0,7**