

Ordering Code

WMCS - TB - 080 - _ _ _ _ - _ _ _ - _ _ _ - _ _ _ - _ _ _

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

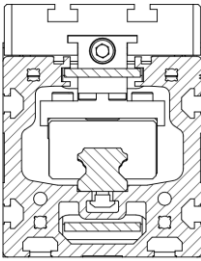
1 - Model

WMCS : Timing Belt Driven Linear Module

2 - Drive Unit

TB : Timing Belt

3 - Size



WMCS - TB - 080

4 - Stroke

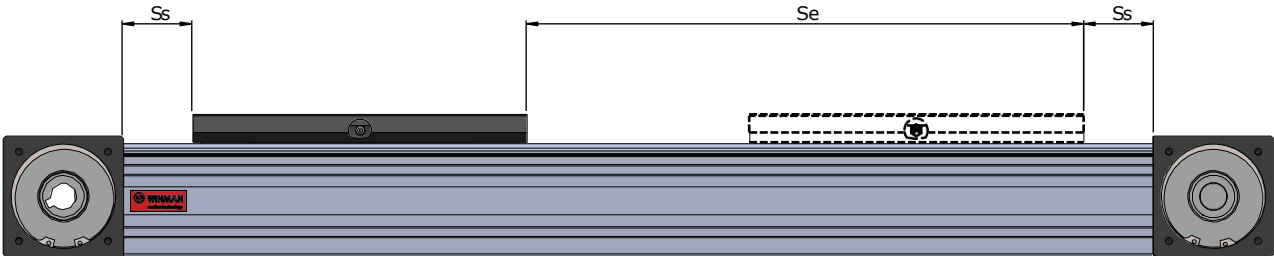
0000 : Maximum 4750 mm

Movement Stroke

In addition to the desired movement stroke, it is recommended to leave a space on both sides until 2xPitch.

$$S_m = S_e + 2.S_s$$
$$S_s = 50 \text{ mm}$$

S_m : Movement Stroke
 S_e : Safety Stroke



5 - Lead

200 : 200 mm/rev

Ordering Code

WMCS - TB - 080 - _ _ _ _ - _ _ _ - _ _ _ - _ _ _

- 1

Model
- 2

Drive Unit
- 3

Size
- 4

Stroke
- 5

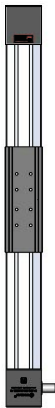
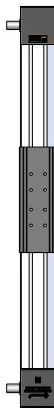
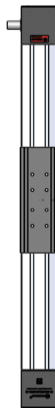
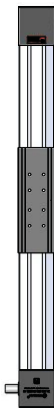
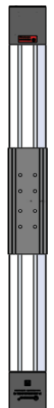
Lead
- 6

Driving Side
- 7

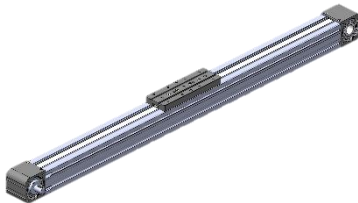
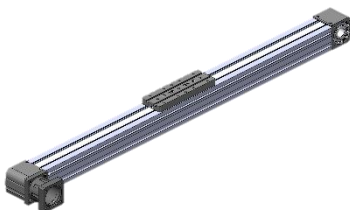
Mounting Kit Model
- 8

Mounting Kit Assembly

6 - Driving Side

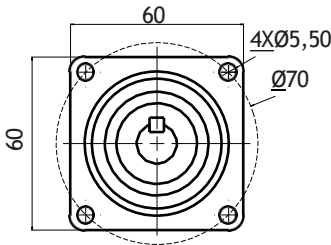
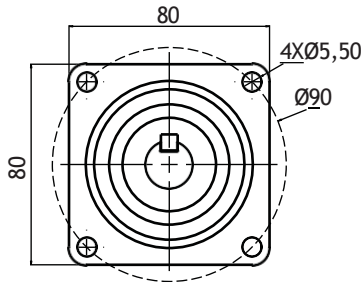
00- Standard	01	02	03	04	05
					

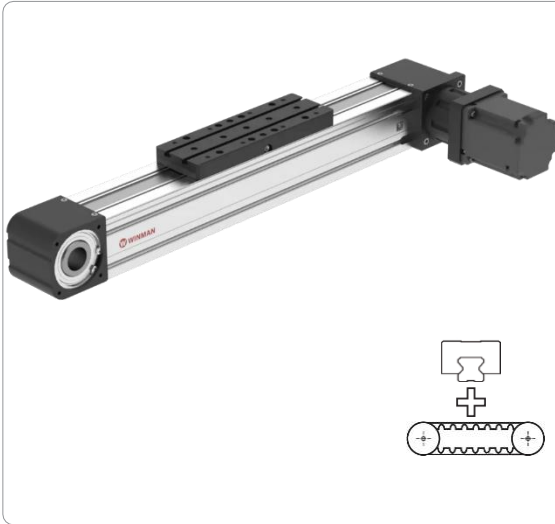
7 - Mounting Kit Model

	
00 : Without Mounting (Standard)	WDAK : Axial Kit

Note 1 : Please contact for different motor types and mounting sizes.
Note 2 : Please contact for to use gearbox.

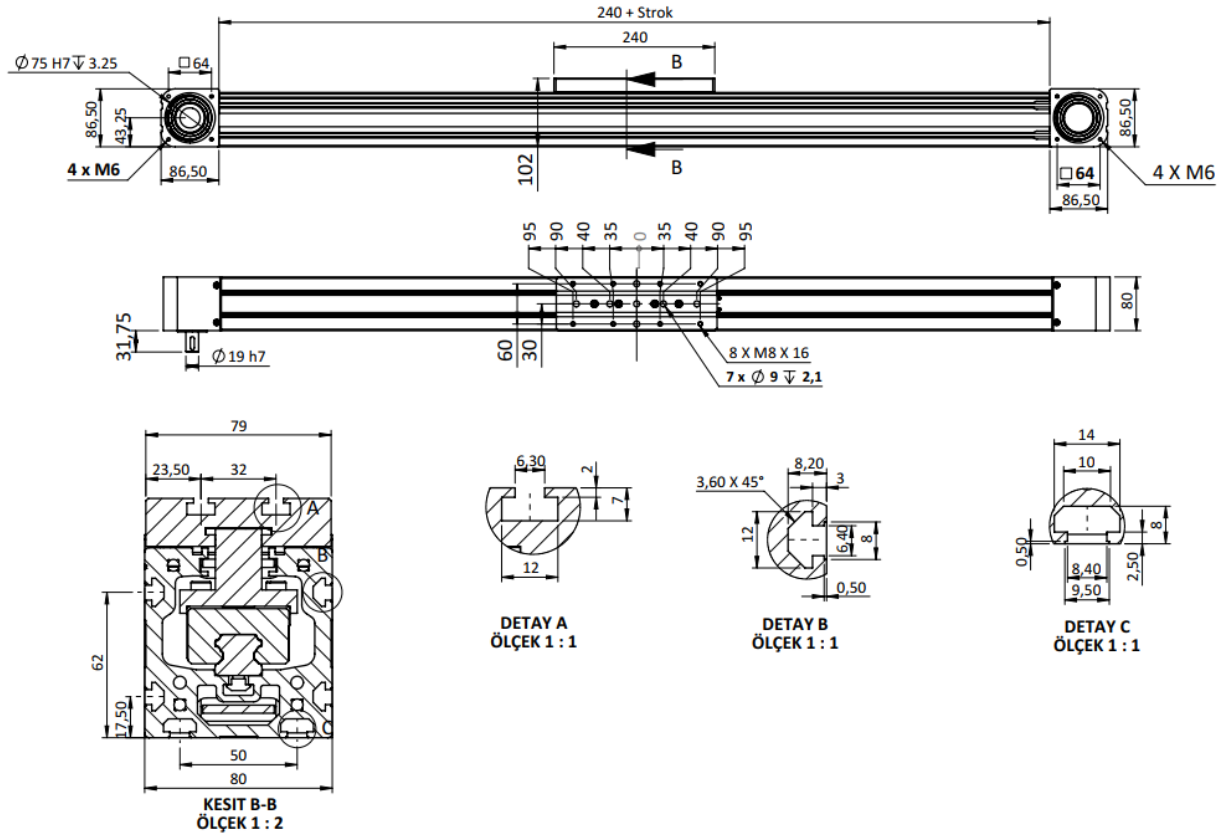
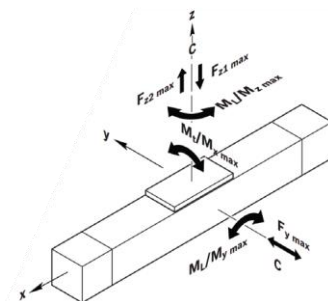
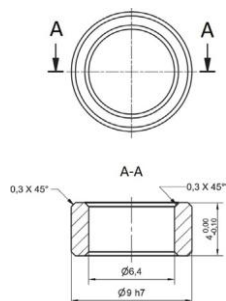
8 - Mounting Kit Assembly

		
00 : Without Motor (Standard)	070 : Ø70 motor mounting	090 : 90 motor mounting

WINMAN WMCS-080 Series Timing Belt Driven Linear Modules

Specification

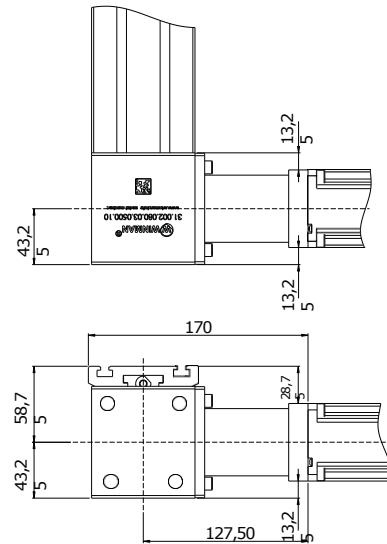
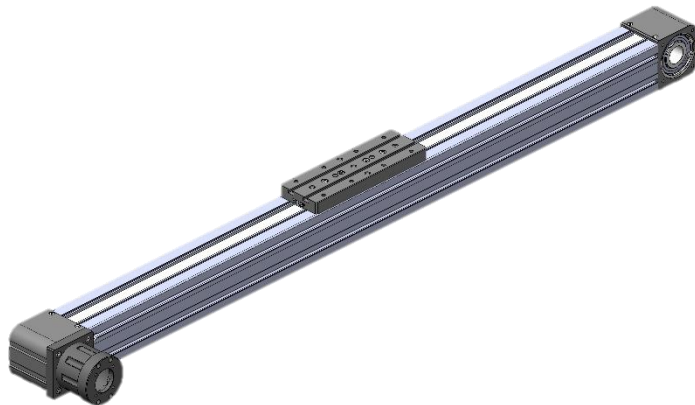
Maximum Stroke [mm]	4750				
Minimum Stroke [mm]	60				
Repeating Accuracy [mm]	< 0 ,1				
Speed [m/s]	≤5,0				
Acceleration [m/s ²]	50				
Dynamic Load Capacity [kN]	Dynamic Torsional Moment Load Capacity [Nm]				
C	M _t	M _L			
28,7	616	2260			
Max. Permissible Torsional Moment Around The Axis [Nm]					
Max. Dynamic Load in Directions [N]					
M _x max	M _y max	M _z max	F _y max	F _{z1} max	F _{z2} max
246	904	904	11500	11500	11500

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

Technical Drawing

MY9 Centering Ring


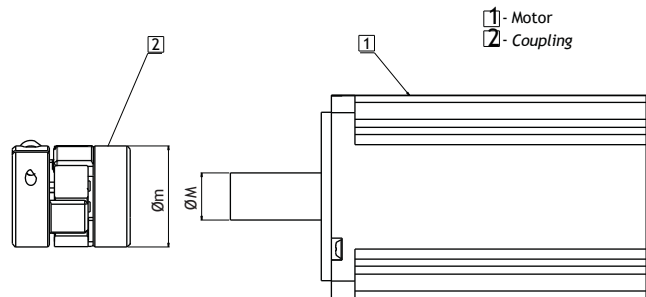
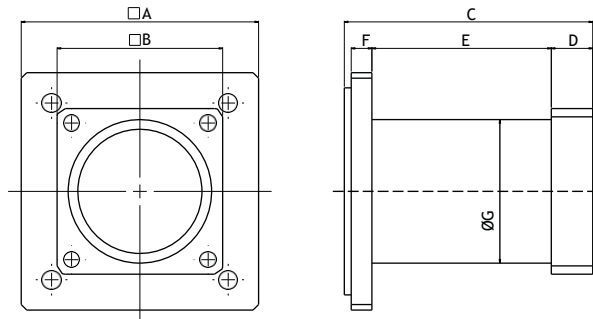
WDAK Axial Mounting Kit

Technical Drawing



Bellhousing-Coupling

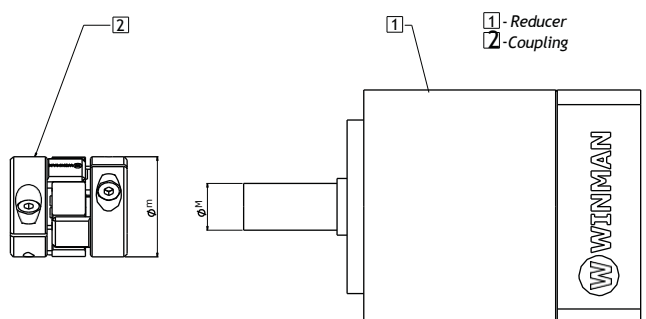
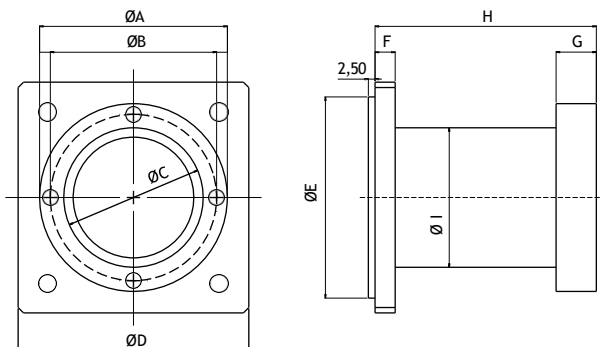
Motor Mounting



Motor Type	A	B	C	D	E	F	G	H
WDAK - 070	86	60	90	15	65	7,5	52	75
WDAK - 090	86	80	92,7	15	64,5	10	55	75

Motor Tipi Motor Type	M	m	Kaplin Modeli Coupling Model
WDAK-070	14	30	WWJCL - 30CRD
WDAK-090	19	40	WWJCL - 40CRD

Reducer Mounting

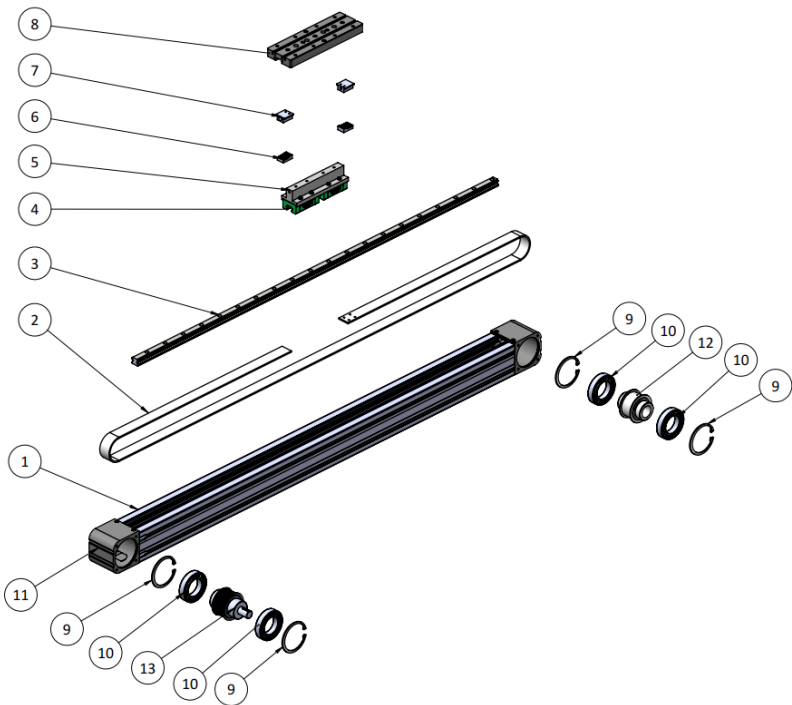


Reducer Type	A	B	C	D	E	F	G	H	I
WPL - 070	70	62	52	86	75	7,5	15	82,5	52
WPL - 090	90	80	68	86	75	7,5	15	97,5	60

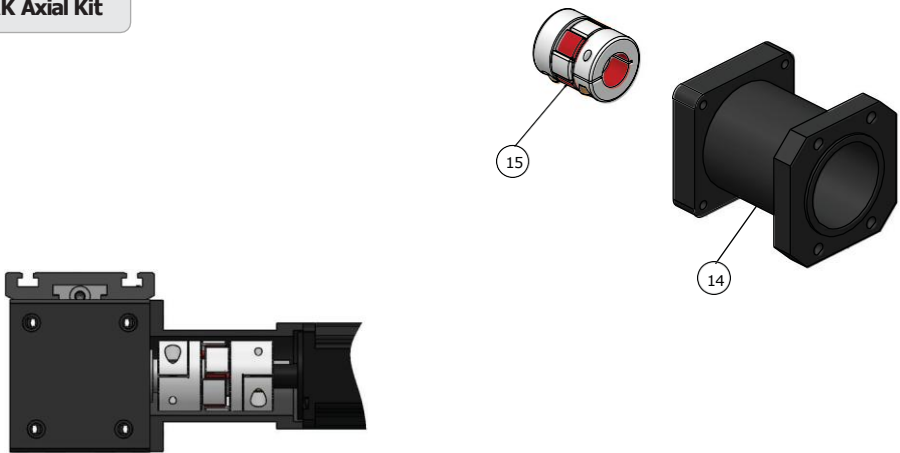
Reducer Type	M	m	Coupling Model
WPL-070	14	30	WWJC - 30CRD
WPL-090	22	40	WWJC - 40CRD

Assembly

WMCS
Linear Module



WDAK Axial Kit



Piece	Qty	Part Name	Assembly
1	1	Profile	Module
2	1	Timing Belt	
3	1	Linear Guide	
4	2	Linear Carriage	
5	1	Interface Plate	
6	2	Belt Mounting Parts	
7	2	Belt Mounting Parts 2	
8	1	Mounting Plate	
9	4	Security Clip	
10	4	Bearing	
11	2	Block	
12	1	Transmission Pulley	
13	1	Male Timing Belt Pulley	
14	1	Bellhousing	Axial Kit
15	1	Coupling	

Maintenance

Basic lubrication is done in-factory before shipment.

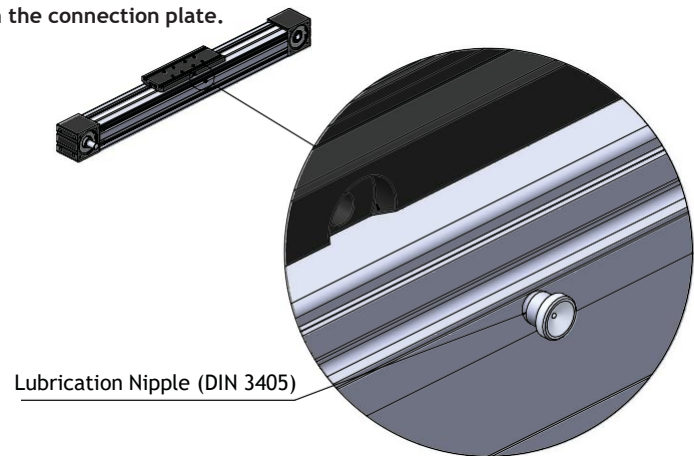
Bearings of the timing belt pulleys have been lubricated for life and will not require in-service lubrication under normal operating conditions.

For lubrication of the compact module, link for lubrication is in the connection plate.

Compact Modules are designed for grease lubricants only!

Lithium soap grease should be used.

Caution: Do not use grease containing graphite or MoS!



Lubrication Nipple (DIN 3405)

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.

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

Belt tension adjustment; It is done at the factory during assembly. Get information to adjust the belt tension during maintenance.

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	≤ 4,0
Load	kN	≤ 0,2 C
Stroke	mm	> 60
Lubrication Period	Km	800
	Hour	400
Lubricate Dose	cm ³	5