Ordering Code

WMCD - BS - 110 - _ _ _ _ - _ _ - _ _ _ _ - _ _ _ - _ _ - _ _

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

1 - Model

WMCD : Compact Linear Module

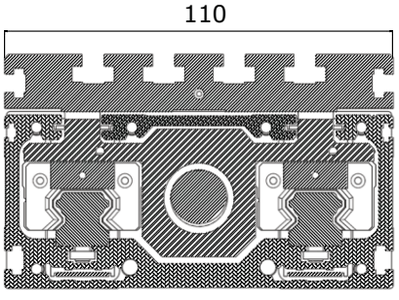
2 - Drive Unit

BS : Ball Screw

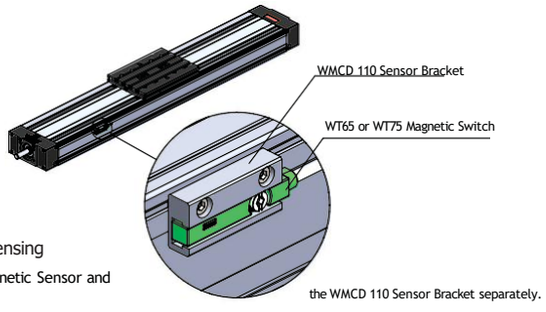
3 - Size

Standard

110



Option



Magnetic Sensing

Order the Magnetic Sensor and the WMCD 110 Sensor Bracket separately.

WMCD - BS - 110	_ _ - MS

4 - Stroke

0000 : Maximum 1400 mm

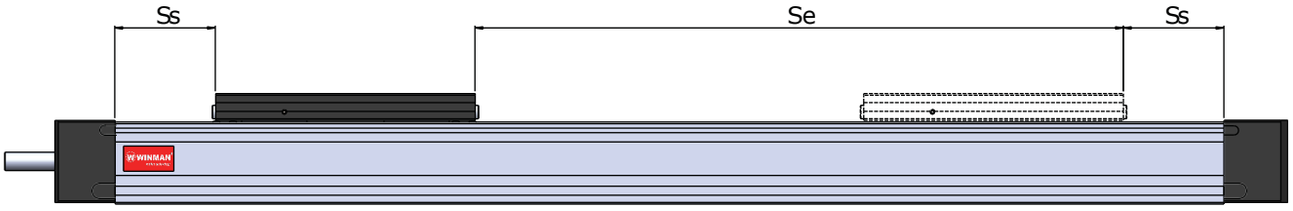
Movement Stroke

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

$Sm = Se + 2.Ss$

$Ss = 2.p$

Sm : Movement Stroke
Se : Safety Stroke
p : Ball Screw Pitch



5 - Pitch

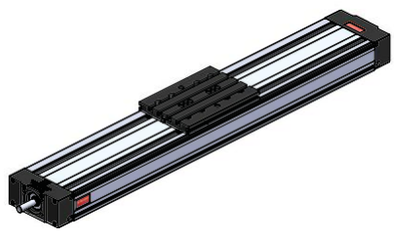
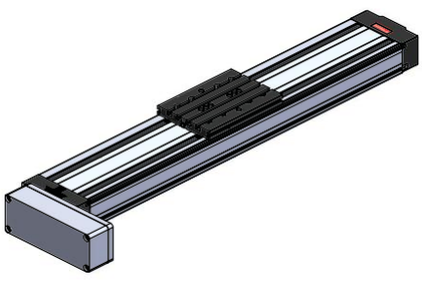
05 : *5 mm/rev*
10 : *10 mm/rev*
16 : *16 mm/rev*

Ordering Code

WMCD - BS - 110 - _ _ _ _ - _ _ - _ _ _ _ - _ _ _ - _ _ - _ _

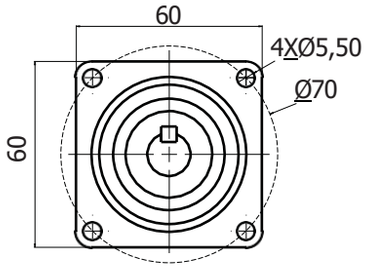
1	2	3	4	5	6	7	8
Model	Drive Unit	Size	Stroke	Pitch	Mounting Kit Model	Mounting Kit Assembly	Mounting Kit Side

6 - Mounting Kit Model

		
00 : Without Mounting (Standard)	WDAK : Axial Kit	WDPK : Parallel Kit

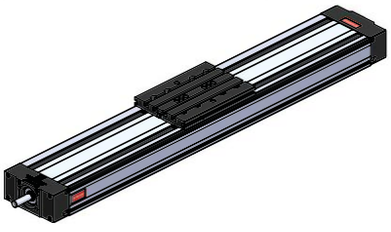
Note 1 : Please contact for different motor types and mounting sizes.
Note 2 : Please contact for to use reducer.

7 - Mounting Kit Assembly

	
00 : Without Motor (Standart)	070 : Ø70 motor mounting

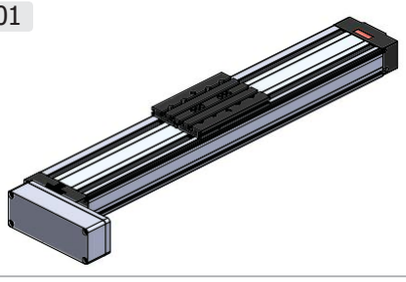
8 - Mounting Kit Side

00 Standard

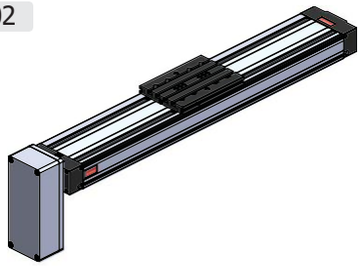




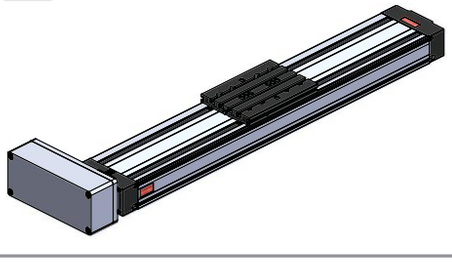
01



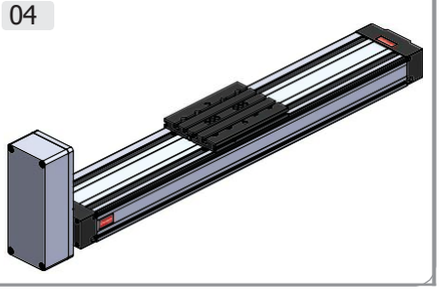
02



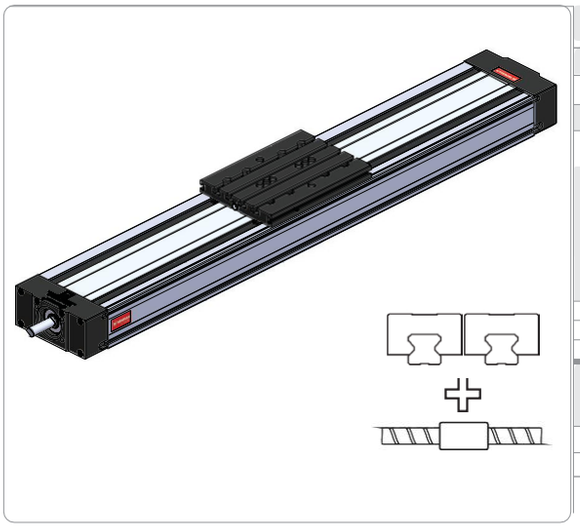
03



04



WINMAN WMCD-110 Series Compact Linear Module



Specification

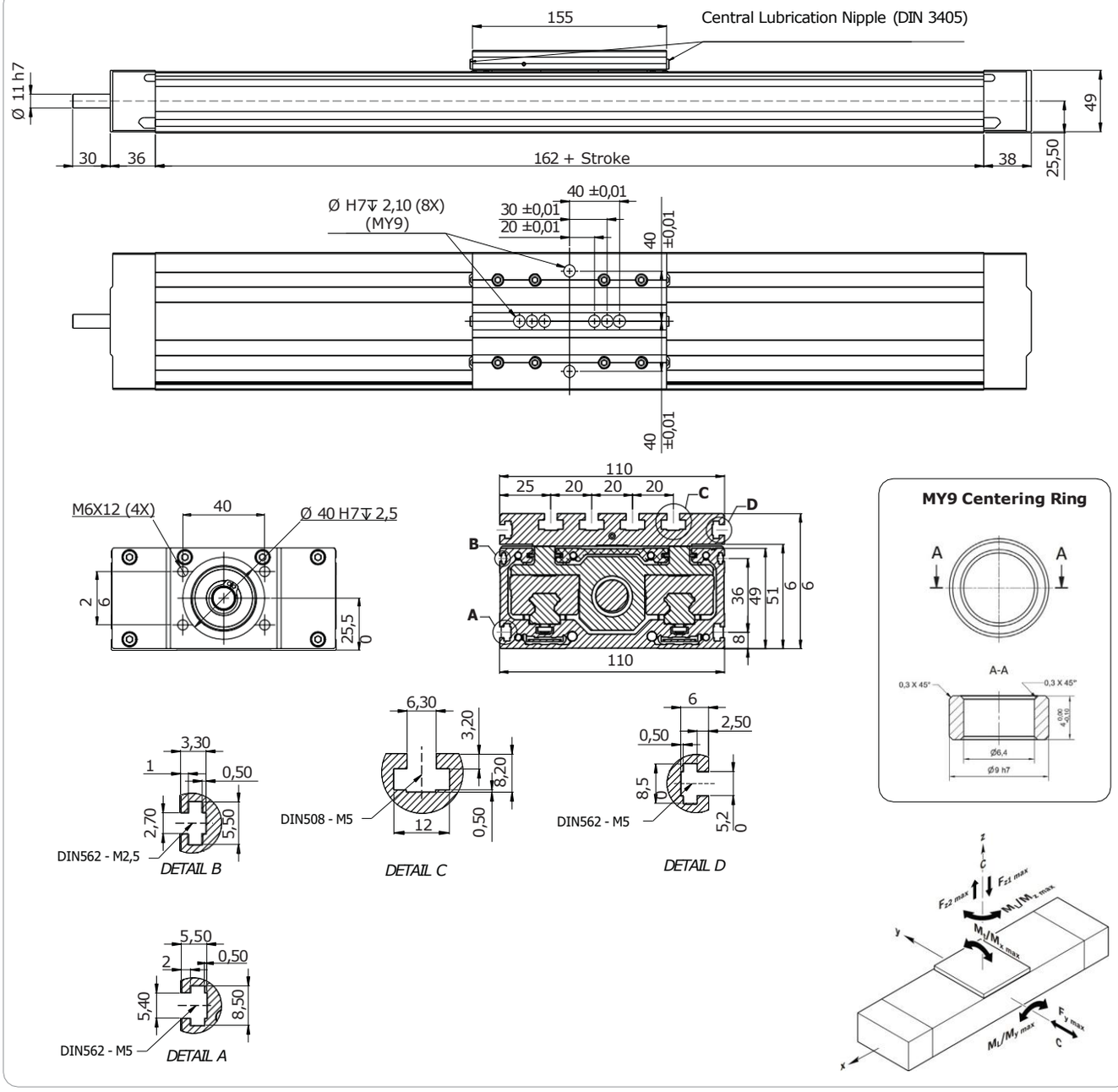
Maximum Stroke [mm]	1400
Position Accuracy [μm/mm]	53/300
Repeating Accuracy [mm]	< 0 ,05
Acceleration [m/s²]	10

Screw Lead [mm]	Dynamic Load Capacity [N]		Dynamic Torsional Moment Load Capacity [Nm]	
	C	C_{bs}	M_t	M_L
5	36980	9260	1890	3000
10		10420		
16		7350		

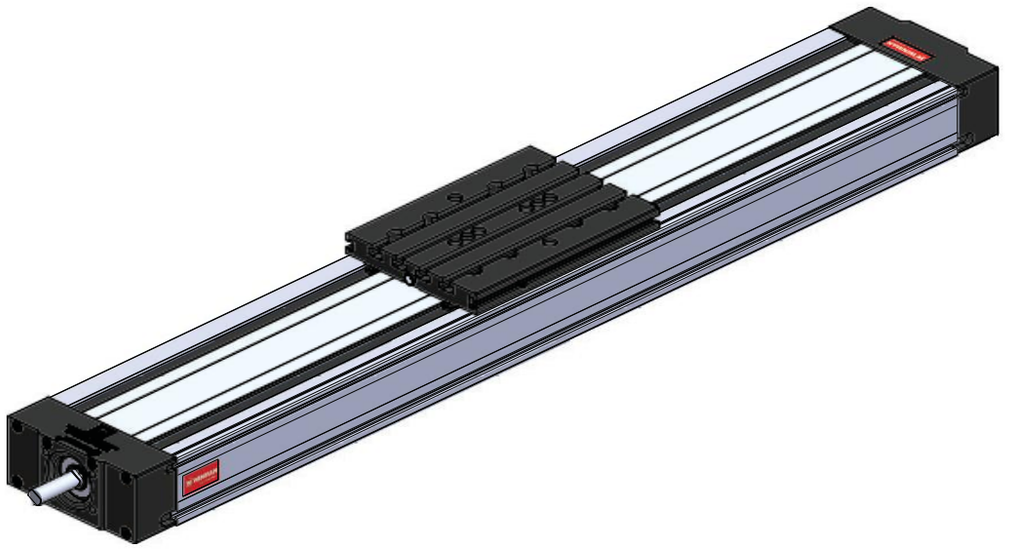
Max. Permissible Torsional Moment Around The Axis [Nm]			Max. Dynamic Load in Directions [N]		
$M_x$max	M_y max	M_z max	F_y max	F_{z1} max	F_{z2} max
700	1110	540	6660	13690	13690

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

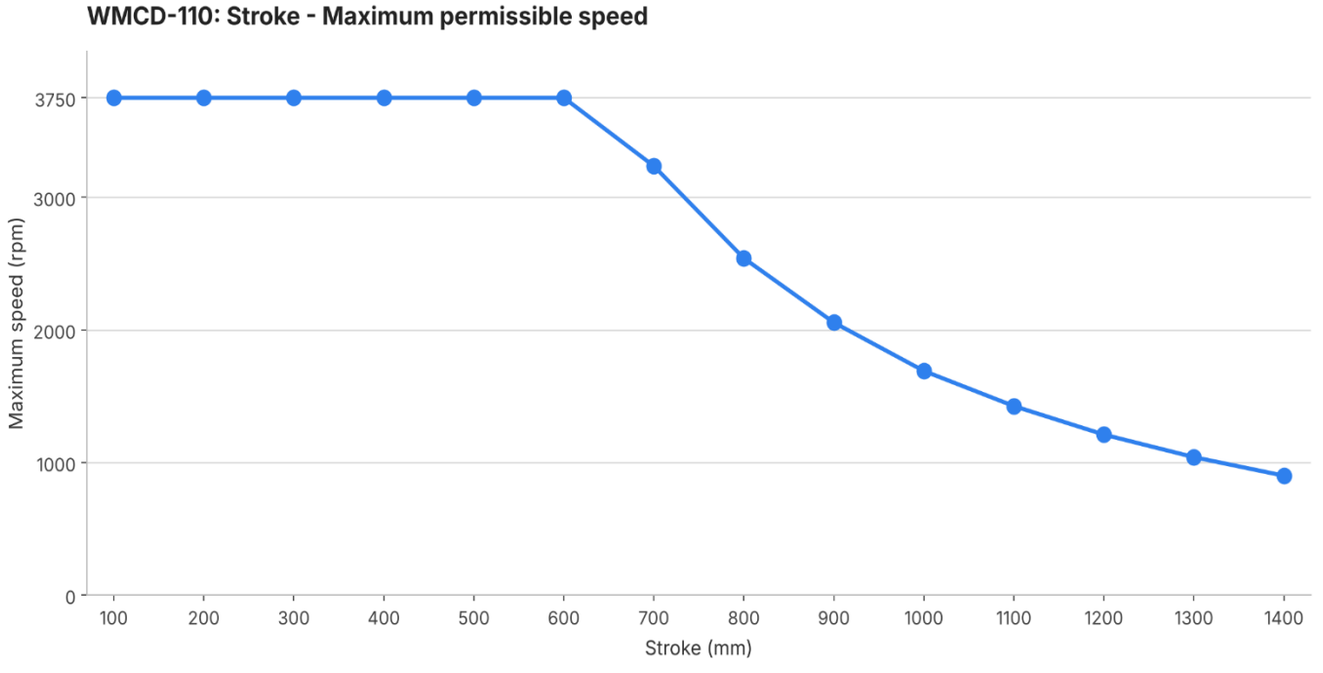
Technical Drawing



Technical Data



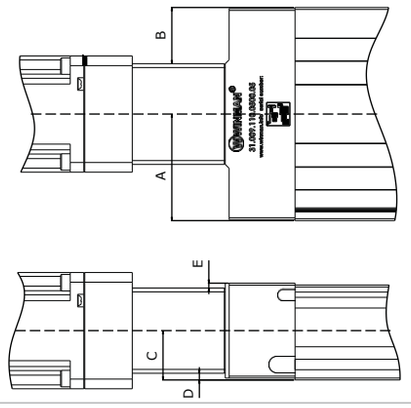
Permissible Speed - Stroke Graph



WDAK Axial Mounting Kit

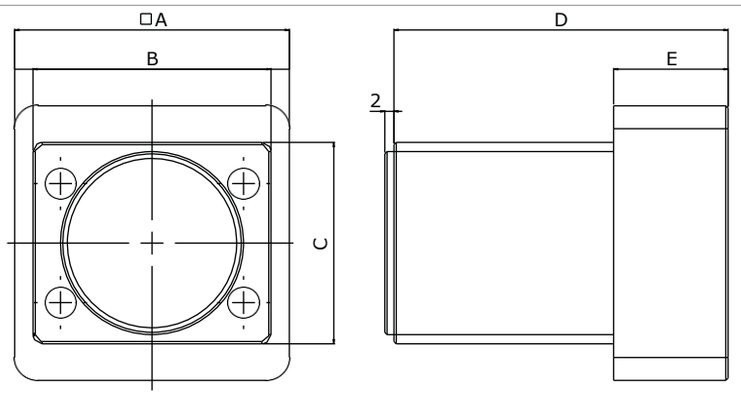
Technical Drawing





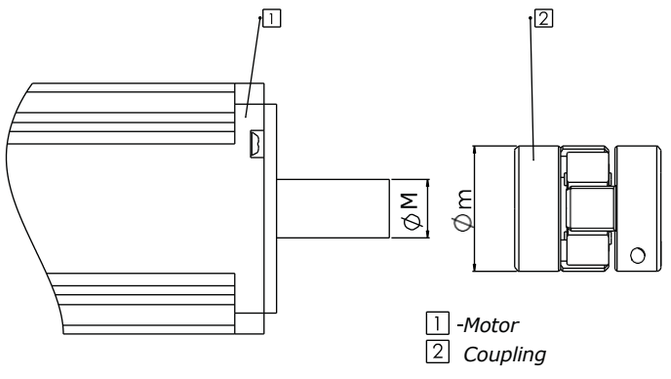
Mounting Kit Type	A	B	C	D	E
WDAK-070	55	29	25,50	3,50	2,50

Bell housing



Mounting Kit Type	A	B	C	D	E
WDAK-070	60	52	44	73	25

Coupling

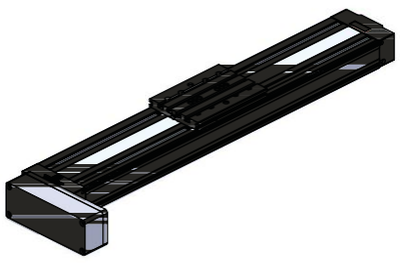


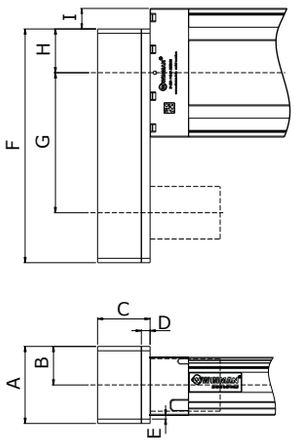
Mounting Kit Type	M	m	Coupling Model
WDAK-070	14	30	WWJL - 30CRD

WDPK - Parallel Mounting Kit

Technical Drawing

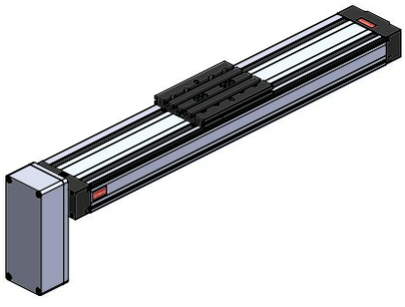
WDPK - _ _ - 01

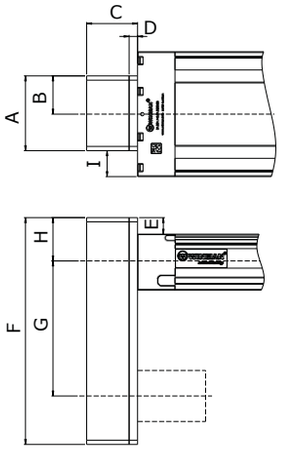




Kit Assembly	WDPK - 070 - 01
A	64,50
B	32,25
C	50
D	10
E	6,75
F	179
G	100
H	39
I	15,50

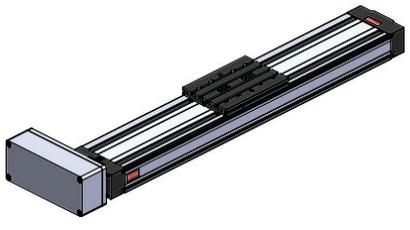
WDPK - _ _ - 02

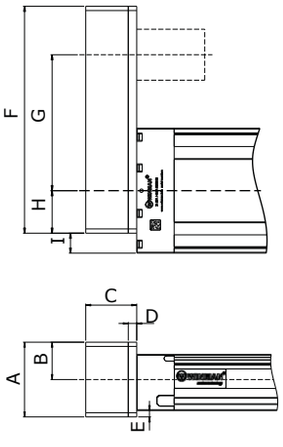




Kit Assembly	WDPK - 070 - 02
A	64,50
B	32,25
C	50
D	10
E	14,50
F	179
G	100
H	39
I	22,25

WDPK - _ _ - 03

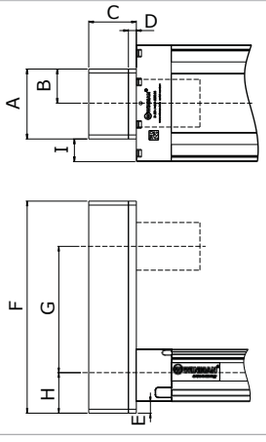




Kit Assembly	WDPK - 070 - 03
A	64,50
B	32,25
C	50
D	10
E	7,50
F	179
G	100
H	39
I	15,50

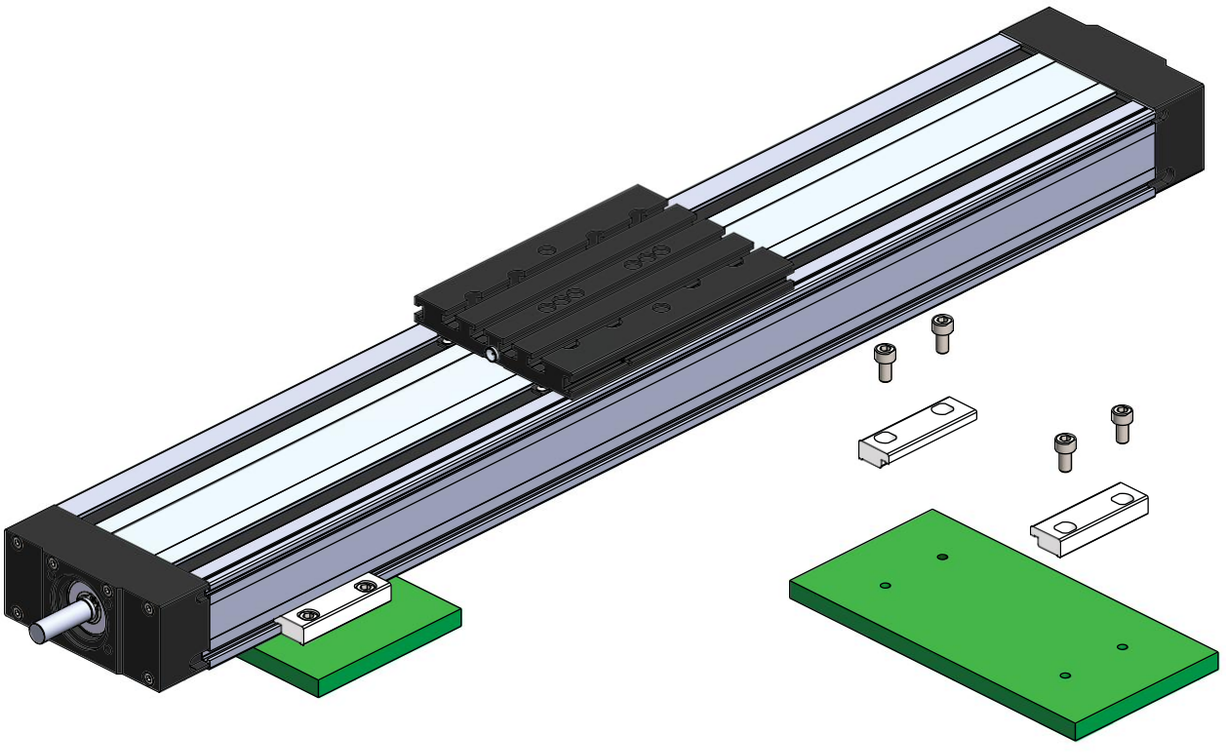
WDPK - _ _ - 04

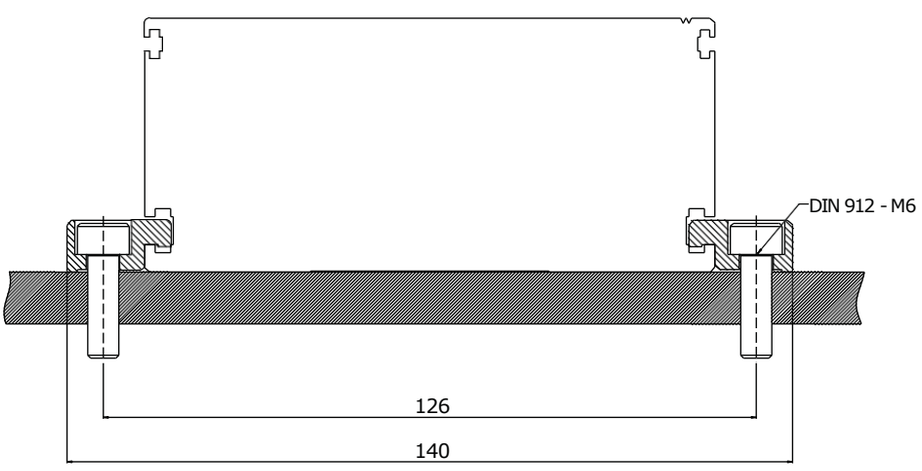




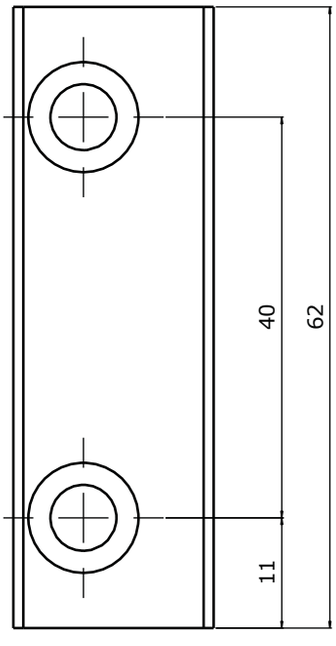
Kit Assembly	WDPK - 070 - 04
A	64,50
B	32,25
C	50
D	10
E	14,50
F	179
G	100
H	39
I	22,50

Assembly



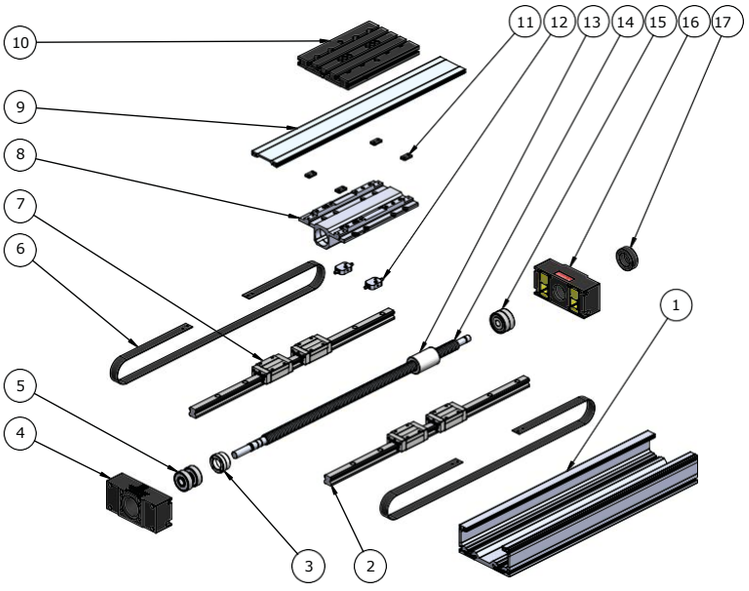


WMCD 110
Clamping Fixtures

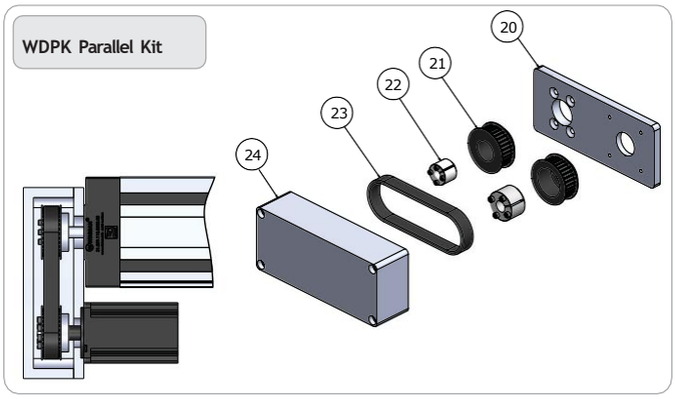


Assembly

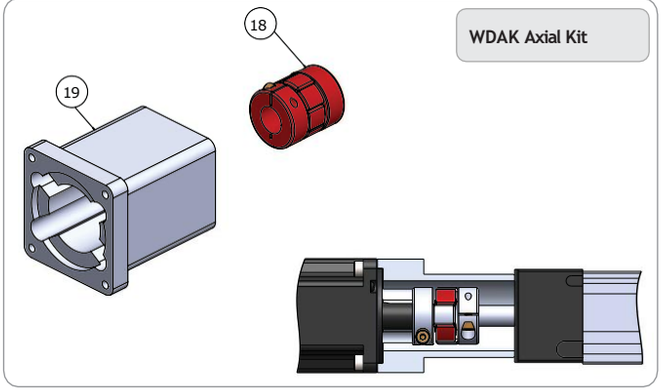
WMCD Linear Module



WDPK Parallel Kit



WDAK Axial Kit



Piece	Qty	Part Name	Assembly
1	1	Profile	Module
2	2	Linear Guide	
3	1	Front Bearing Pressure Nut	
4	1	Front Block	
5	2	Front Bearing	
6	2	Protection Strip Corrosion Resistans	
7	4	Linear Carriage	
8	1	Mounting Plate	
9	1	Carriage	
10	1	Profile Cover	
11	4	Strip Mounting Piece	
12	2	Lubrication Port	
13	1	Ball Nut	
14	1	Ball screw	
15	1	Back Bearing	
16	1	Back Block	
17	1	Back Bearing Pressure Nut	
18	1	Coupling	Axial Kit
19	1	Bell housing	
20	1	Parallel Kit Cover	Parallel Kit
21	2	Timing Belt Pulleys	
22	2	Taper Bushing	
23	1	Toothed Belt	
24	1	Parallel Kit Box	

Maintenance

Basic lubrication is done in-factory before shipment.

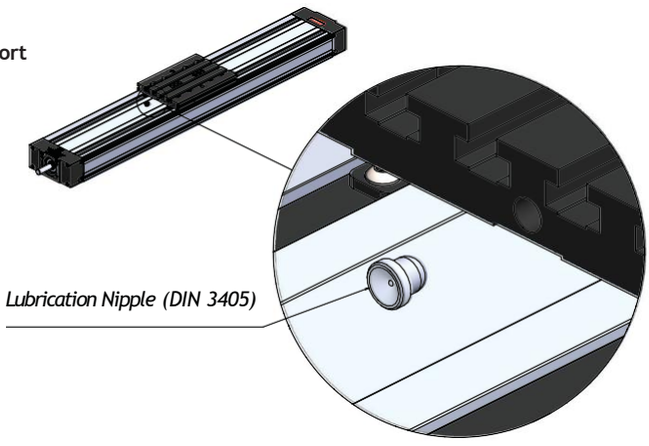
Bearings of the ball screw have been lubricated for life and will not require in-service lubrication under normal operating conditions.

The lubrication of ball nuts and carriages is made from a single port

Compact modules must be lubricated with suitable grease.

Lithium soap grease should be used.

Caution: Do not use grease containing graphite or MoS!



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

Lubrication quantites is provided in table by normal operating conditions.

After lubrication, move the linear module at least three times. Do not exceed the movement value, the movement speed 10 mm / s.

Belt is assembled with a fixed axis distance between the pulleys in Parallel Kits. In consequence there is a no need to adjust the tension of belt.

After maintenance, get information about the protection strip tension on the module.

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	≤ 1,0
Screw Rotation Speed	rev/min	2500
Load	kN	≤ 0,2 C
Stroke	mm	> 60
Lubrication Period	Km	400
	Hour	400
Lubricate Dose	cm^3	5,2

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