Ordering Code

WMCD - BS - 145 - _ _ _ _ - _ _ - _ _ _ _ - _ _ _ - _ _ - _ _

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

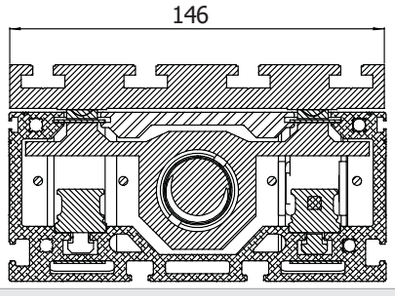
WMCD : Compact Linear Module

2 - Drive Unit

BS : Ball Screw

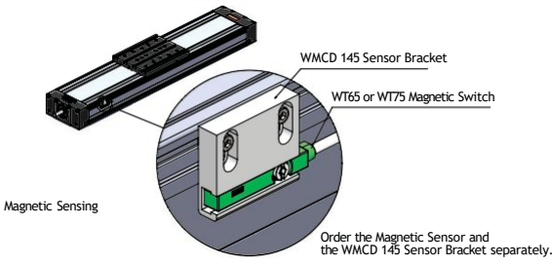
3 - Size

Standard



WMCD - BS - 145

Option



_ _ - MS

4 - Stroke

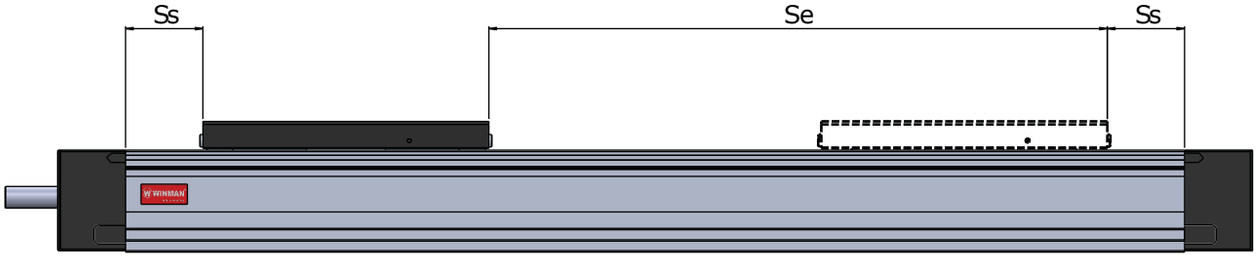
0000 : Maximum 1600 mm

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

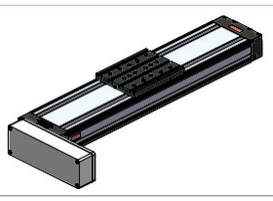
05 : 5 mm/rev
10 : 10 mm/rev
20 : 20 mm/rev

Ordering Code

WMCD - BS - 145 - _ _ _ _ - _ _ - _ _ _ _ - _ _ _ - _ _ - _ _

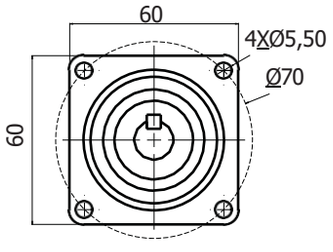
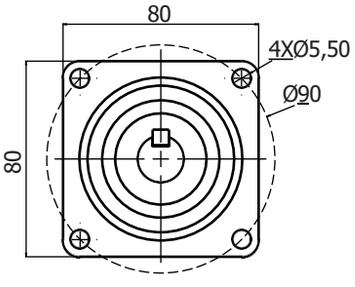
1	2	3	4	5	6	7	8
Model	Drive Unit	Size	Stroke	Pitch	Mounting Kit Model	Mounting Kit Assembly	Mounting Kit Side

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 (Standard)	070 : Ø70 motor mounting	090 : Ø90 motor mounting

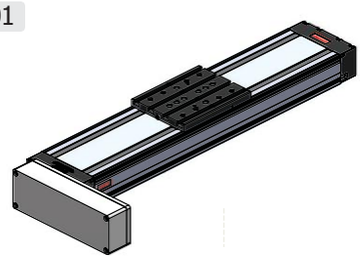
8 - Mounting Kit Side

00 Standard

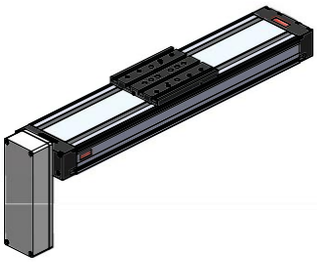




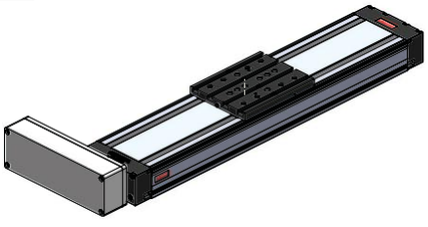
01



02



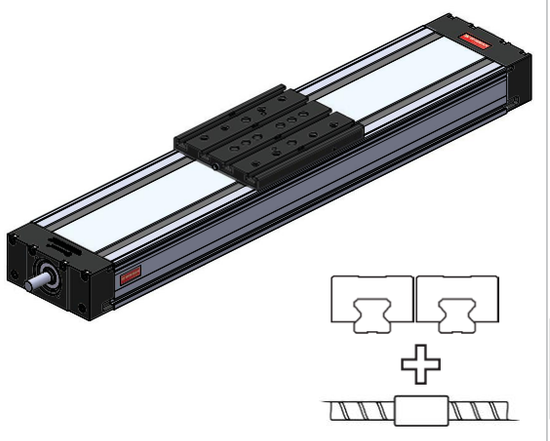
03



04



WINMAN WMCD-145 Series Compact Linear Module



Specification

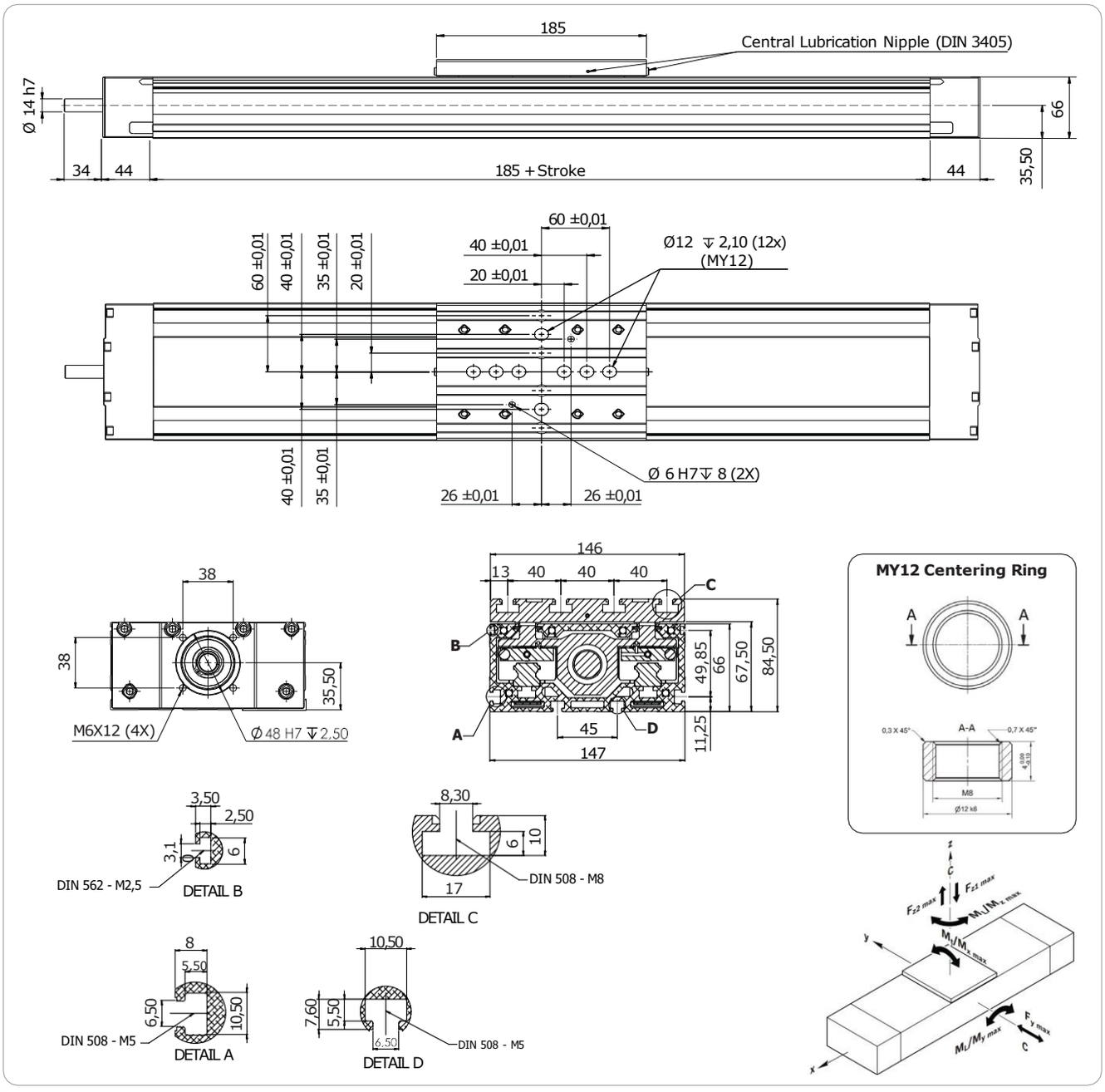
Maximum Stroke [mm]	1600
Position Accuracy [μm/mm]	53/300
Repeating Accuracy [mm]	< 0 ,05
Acceleration [m/s²]	10

Screw Lead [mm]	Dynamic Load Capacity [N]		Dynamic Torsional Moment Load Capacity [Nm]	
	C	C_{bs}	M_t	M_L
5	57680	13350	4200	5400
10		15580		
20		14650		

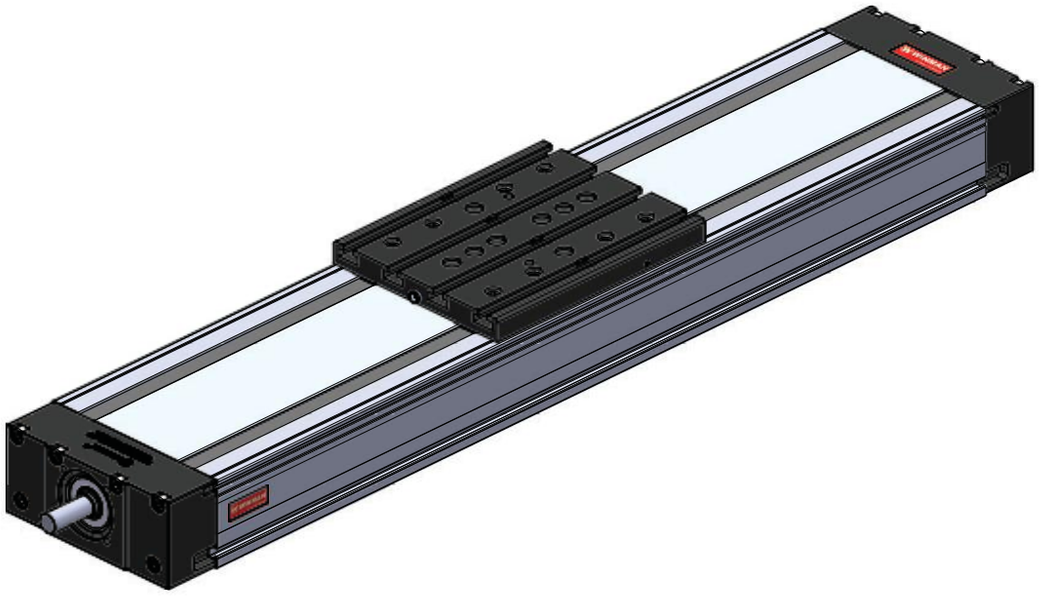
Max. Permissible Torsional Moment Around The Axis [Nm]			Max. Dynamic Load in Directions [N]		
M_x max	M_y max	M_z max	F_y max	F_{z1} max	F_{z2} max
1475	1650	970	10385	20190	20190

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

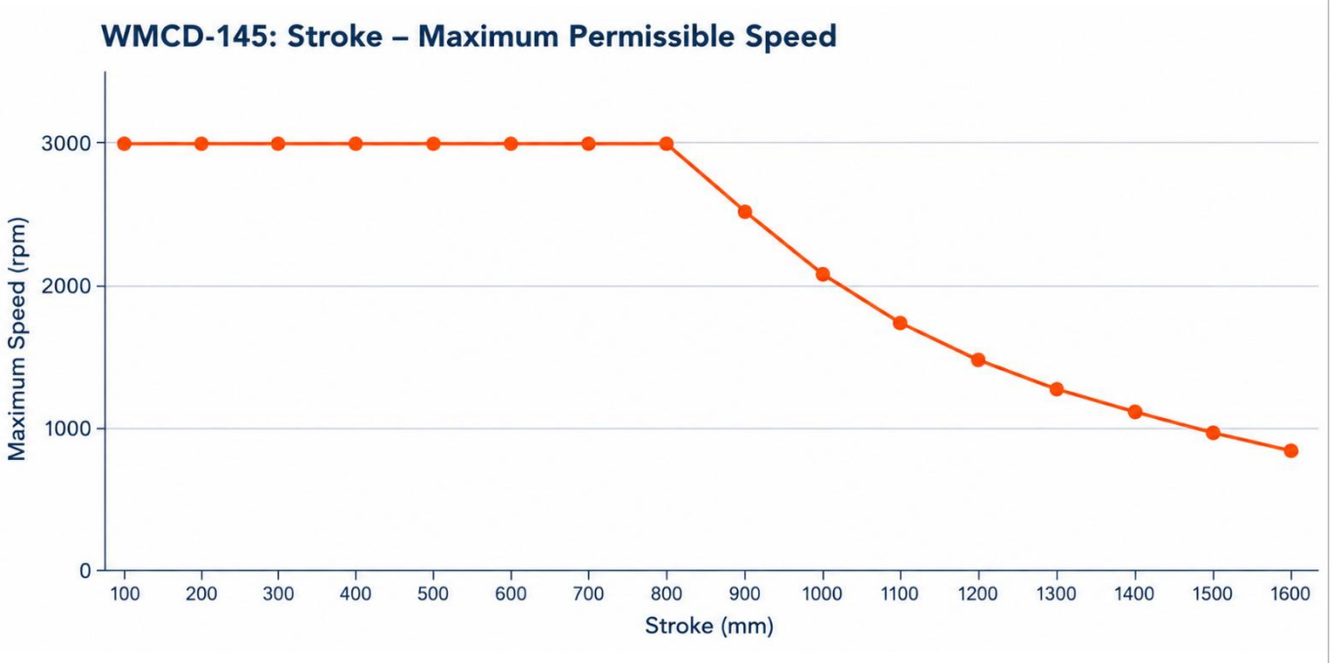
Technical Drawing



Technical Data



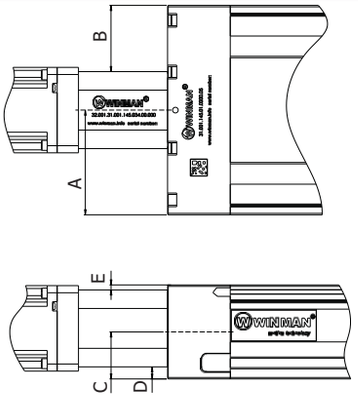
Permissible Speed - Stroke Graph



WDAK Axial Mounting Kit

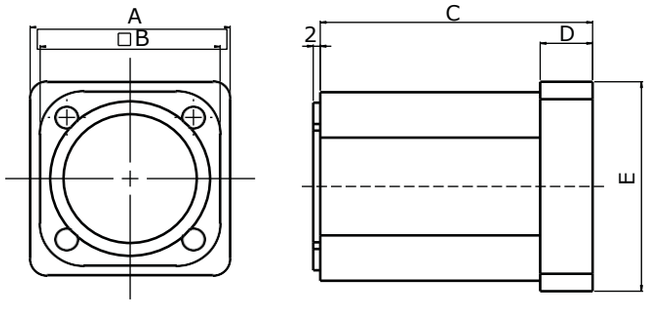
Technical Drawing





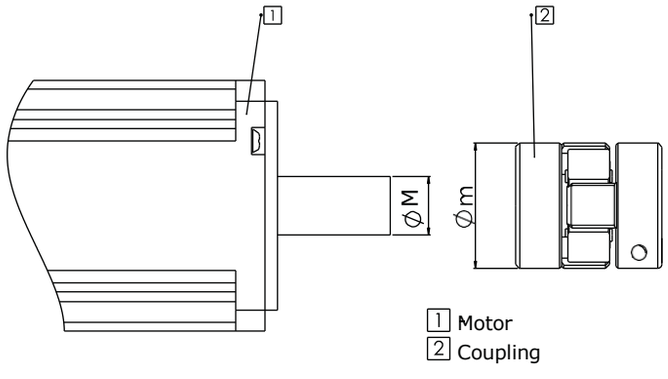
Mounting Kit Type	A	B	C	D	E
WDAK-070	73,5	46,5	35,5	8,5	3,5
WDAK-090	73,5	43,5	35,5	5,5	0,5

Bellhousing



Mounting Kit Type	A	B	C	D	E
WDAK-070	60	54	78	15	60
WDAK-090	80	60	95	20	80

Coupling

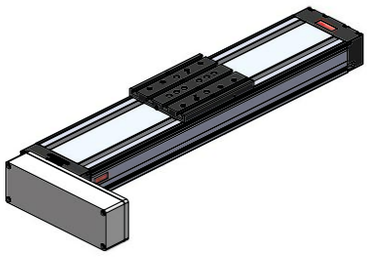


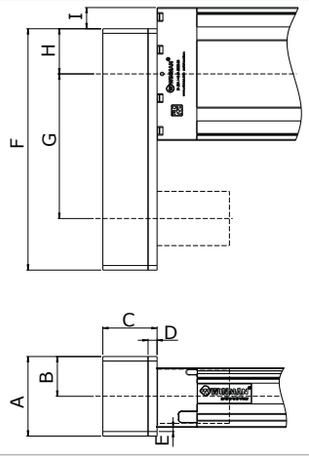
Mounting Kit Type	M	m	Coupling Model
WDAK-070	14	30	WWJL - 30CRD
WDAK-090	19	40	WWJL - 40CRD

WDPK - Parallel Mounting Kit

Technical Drawing

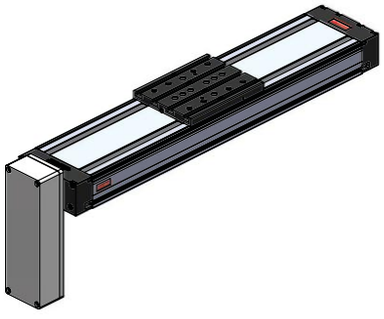
WDPK - _ _ - 01

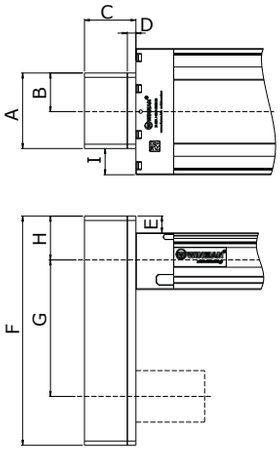




Kit Assembly	WDPK - 070 - 01	WDPK - 090 - 01
A	88	88
B	43	43
C	60	60
D	10	10
E	14,5	5
F	267	297
G	160	186
H	50	55,5
I	23,5	18

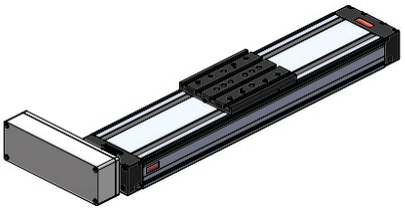
WDPK - _ _ - 02

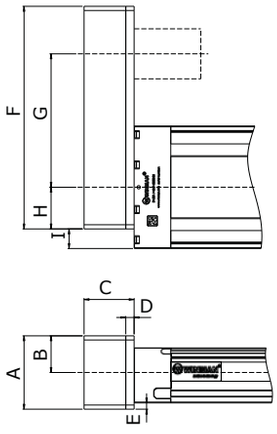




Kit Assembly	WDPK - 070 - 02	WDPK - 090 - 02
A	88	88
B	43	43
C	60	60
D	10	10
E	14,5	9,5
F	267	297
G	160	186
H	50	55,5
I	28,5	18

WDPK - _ _ - 03

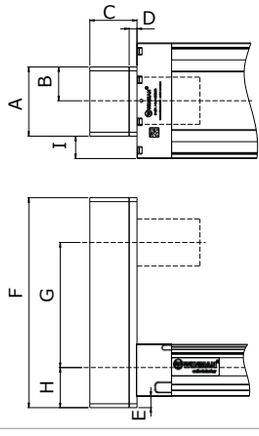




Kit Assembly	WDPK - 070 - 03	WDPK - 090 - 03
A	88	88
B	43	43
C	60	60
D	10	10
E	9,5	20
F	267	297
G	160	186
H	50	55,5
I	23,5	28,5

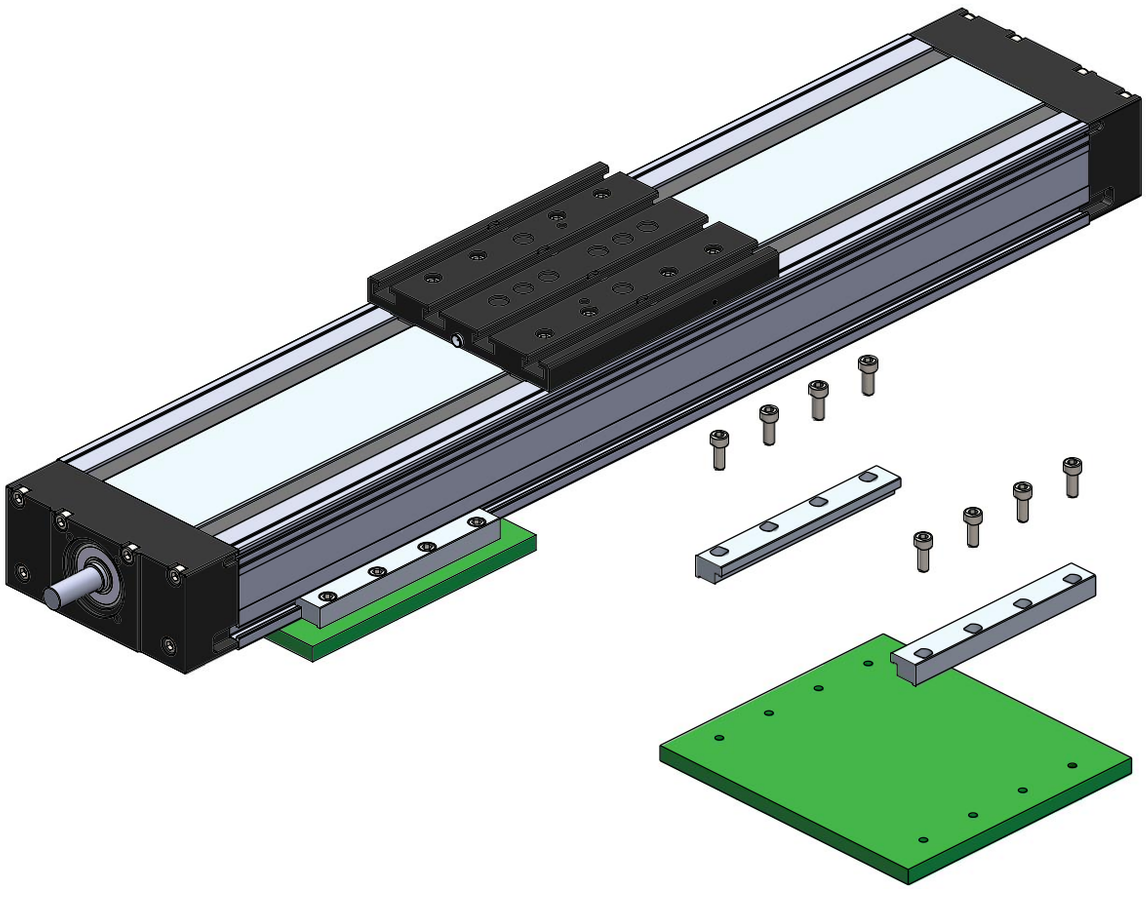
WDPK - _ _ - 04

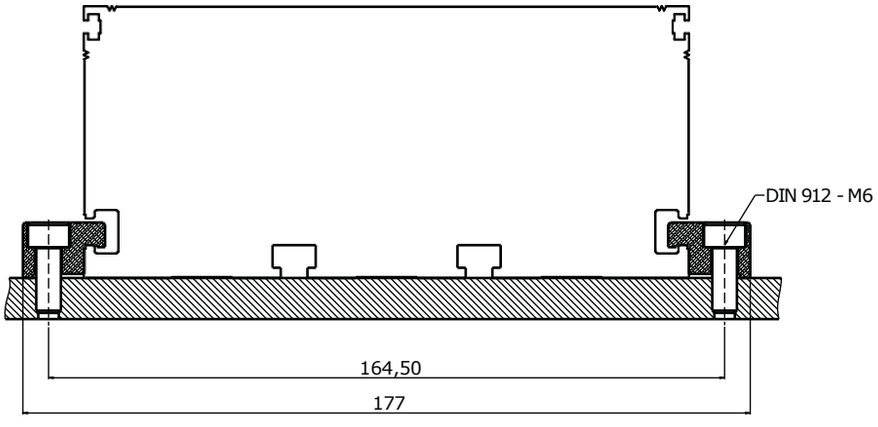




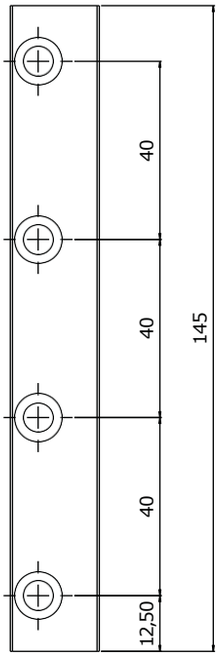
Kit Assembly	WDPK - 070 - 04	WDPK - 090 - 04
A	88	88
B	43	43
C	60	60
D	10	10
E	14,5	20
F	267	297
G	160	186
H	50	55,5
I	28,5	28,5

Assembly



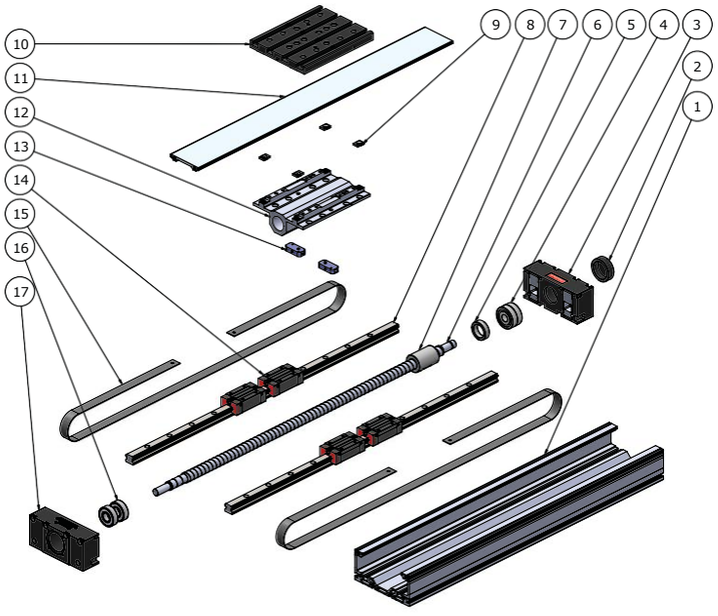


WMCD 145 Clamping Fixtures

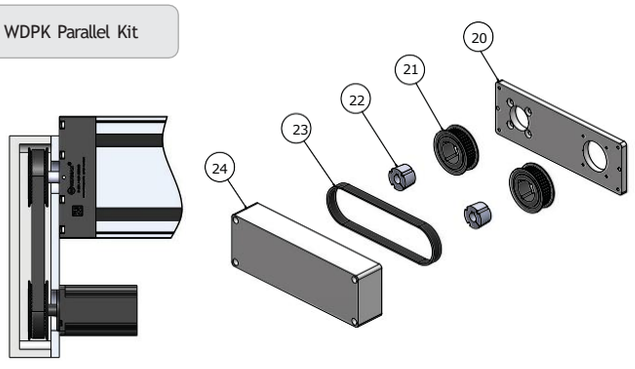


Assembly

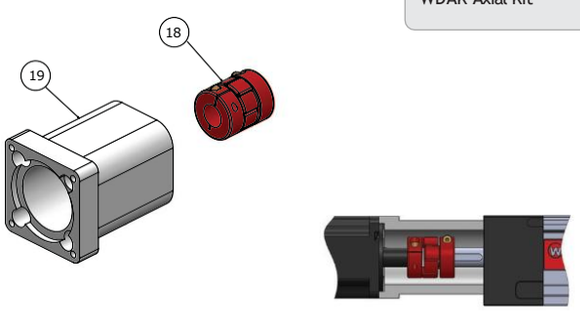
WMCD Linear Module



WDPK Parallel Kit



WDAK Axial Kit



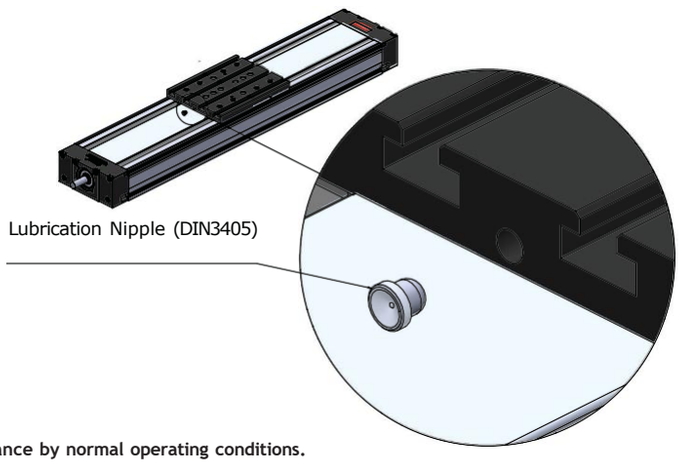
Piece	Qty	Part Name	Assembly
1	1	Profile	Module
2	1	Block Nut	
3	1	Back Block	
4	1	Back Bearing	
5	1	Front Bearing Pressure Nut	
6	1	Ball screw	
7	1	Ball Nut	
8	2	Linear Guided	
9	4	Strip Mounting Piece	
10	1	Front Bearing	
11	1	Profile Cover	
12	1	Carriage	
13	2	Lubrication Port	
14	4	Linear Carriage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

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