

Ordering Code

WLA4 - BS - 032 - - - - -

1

2

3

4

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7

8

ModelDrive UnitSizeStrokePitchMounting Kit ModelMounting Kit AssemblyAssembly Accessories

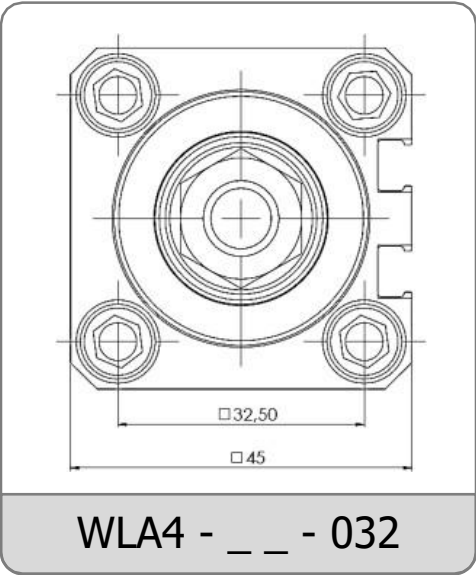
1-Model

WLA4: Series Linear Actuators

2-Drive Unite

BS: Ball Screw

3-Size



4-Stroke

0000 : Maximum 600 mm

Movement Stroke

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

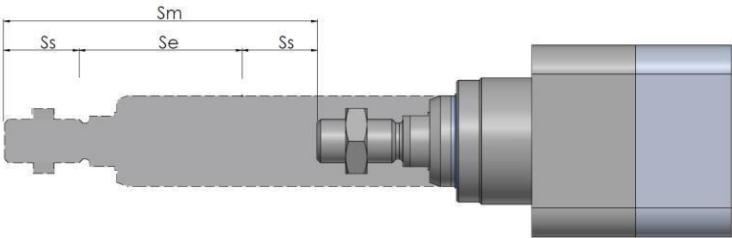
$S_m = S_e + 2 \times S_s$

$S_s = 2 \times p$

S_m : Movement Stroke

S_e : Safety Stroke

P : Ball Screw Pitch



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5-Pitch

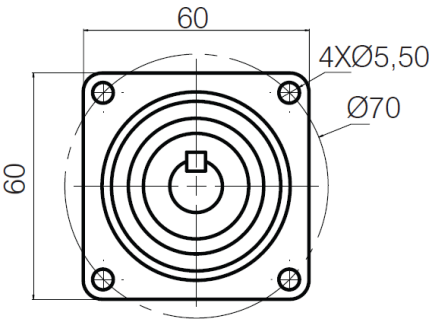
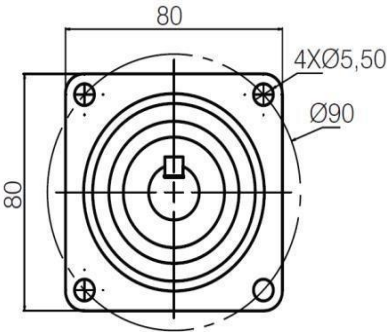
Drive Unit	Ball Screw	
Actuator Model	5	10
WLA4 - __ - 032	+	+

6-Mounting Kit Model

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

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

7-Mounting Kit Assembly

		
00:Without Motor (Standart)	070: Ø70 Motor Mounting	090: Ø90 Motor Mounting

8-Assembly Accessories

Front Mounting

... - WKA



... - WGM



... - WCB



... - WHCR B



... - WUCR B



Mounting for Axial Kit

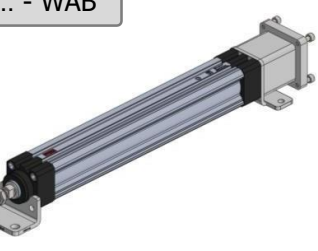
... - FTC



... - WFB



... - WAB



Mounting for Parallel Kit

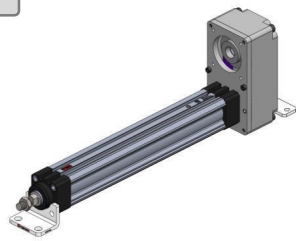
... - FTC



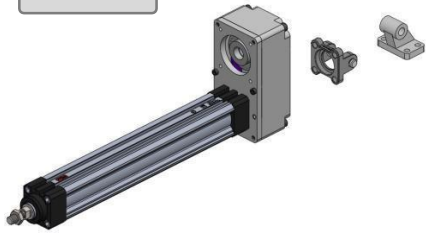
... - WFB



... - WAB



... - EYB



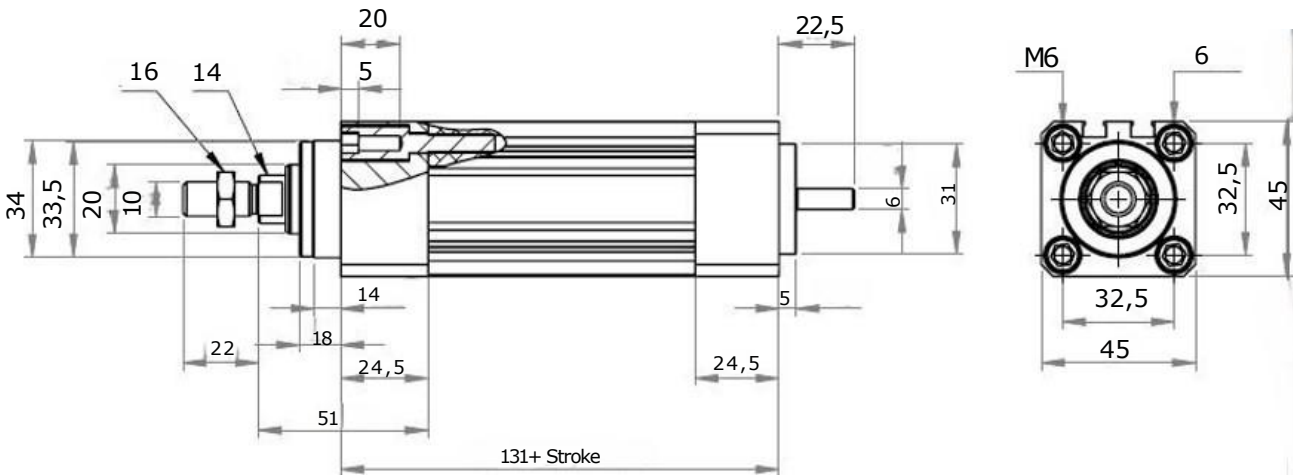
WINMAN WLA4-032 Series Linear Actuators



Specification			
Size		032	
Ball Screw Lead		005	010
Maximum Axial Force	N	1000	
Maximum Speed	m/s	0.50	1.00
Maximum Stroke	mm	600	
Position Accuracy	µm/mm	53/300	
Repeating Accuracy	mm	<0.05	
Acceleration	m/s²	10	

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

Technical Drawing

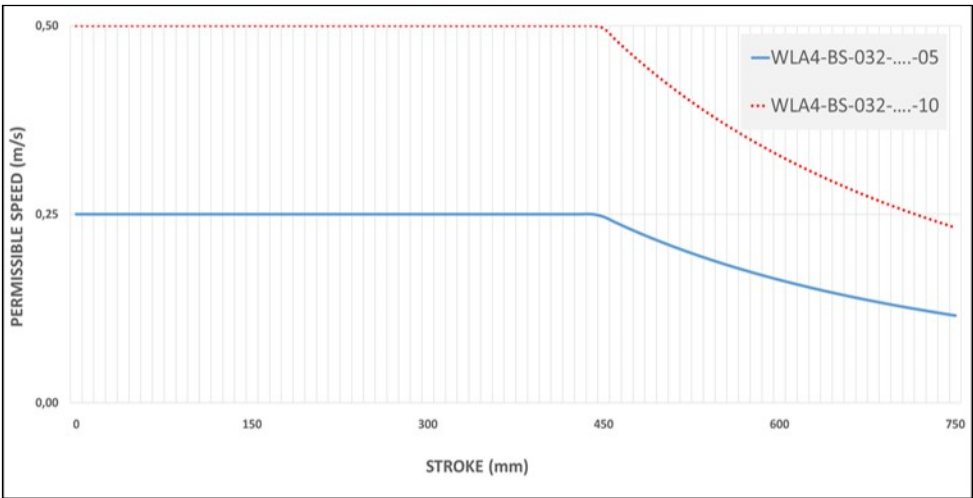


Technical Data

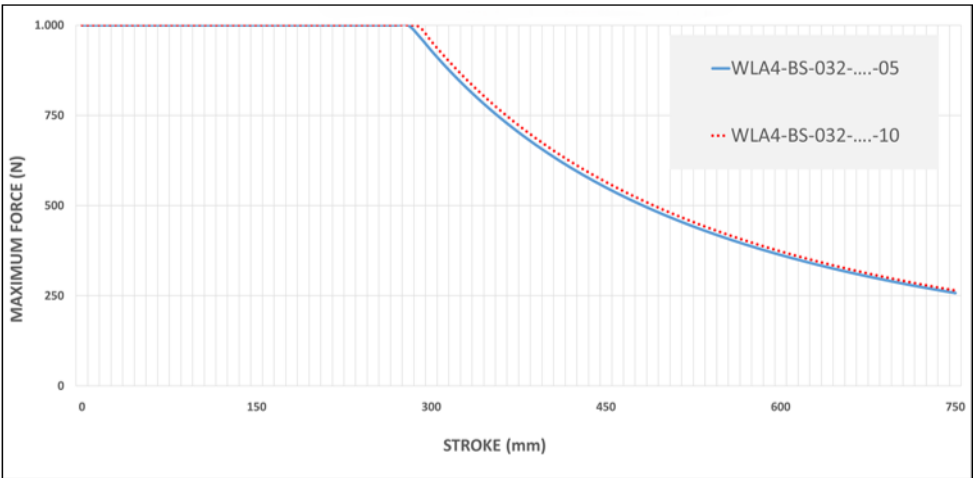
Mean Force/Service Life



Permissible Speed/Stroke

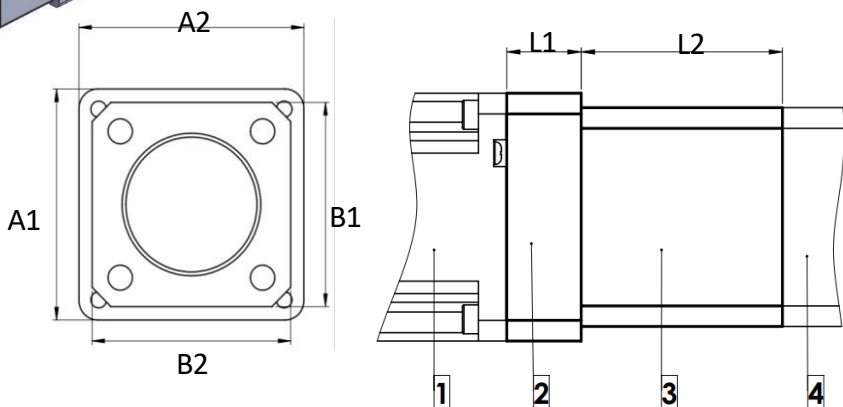
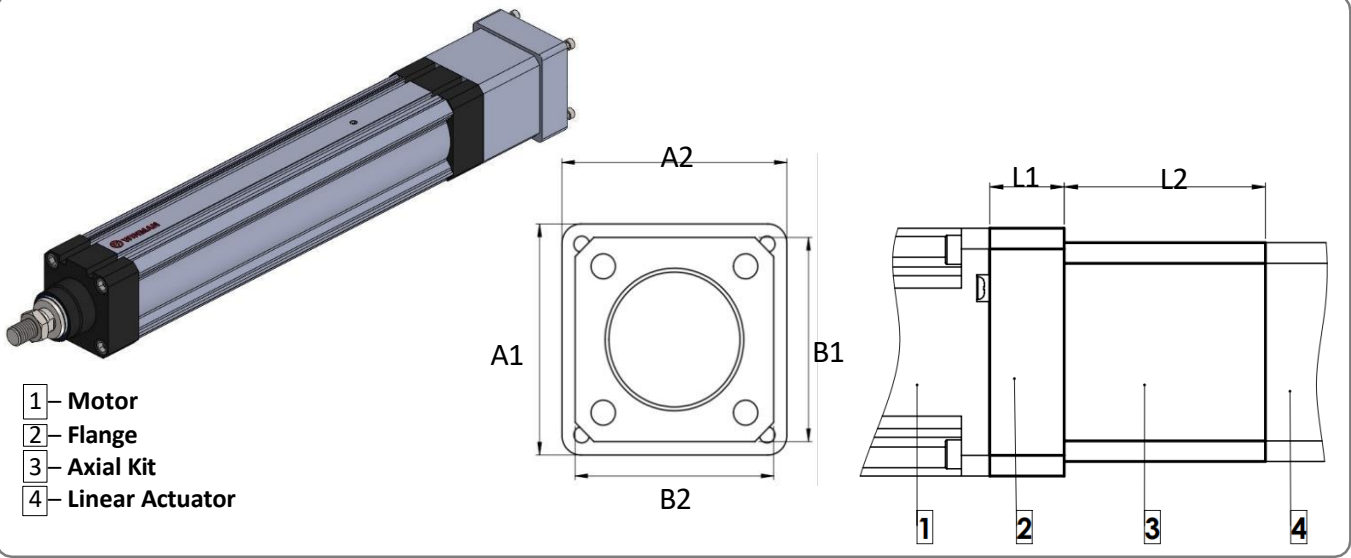


Maximum Force/Stroke



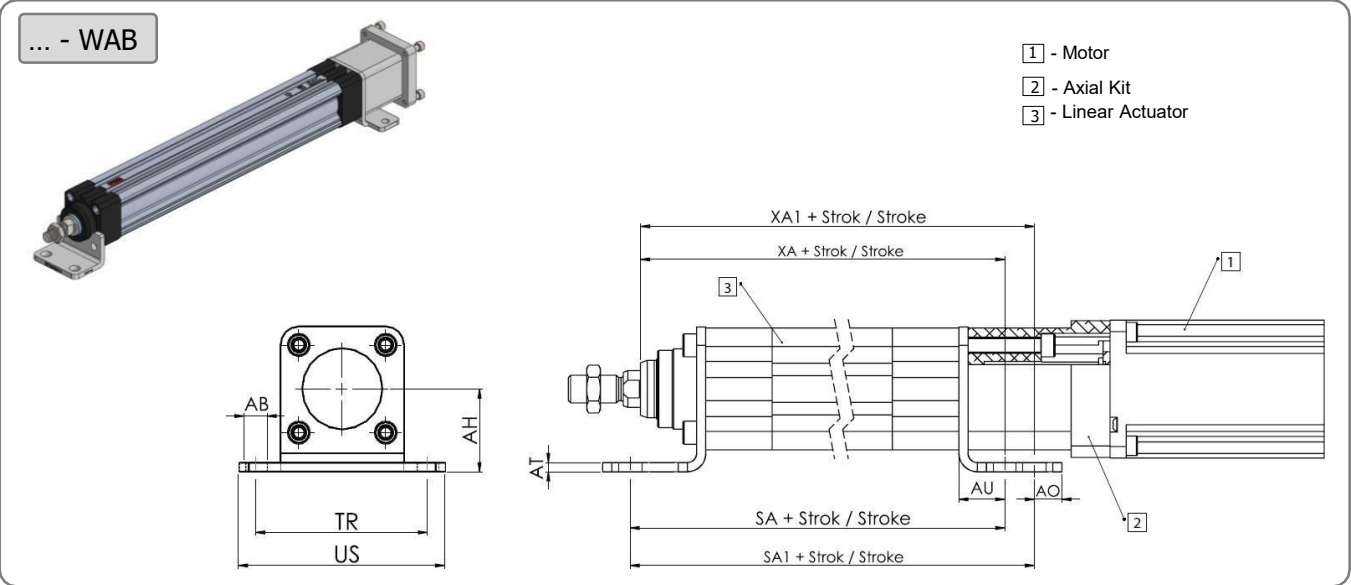
WDAK Axial Mounting Kit

WDAK Technical Drawing



Size	A1	A2	B1	B2	L1	L2
032	58	58	45	45	16	40

WDAK Axial Mounting Kit

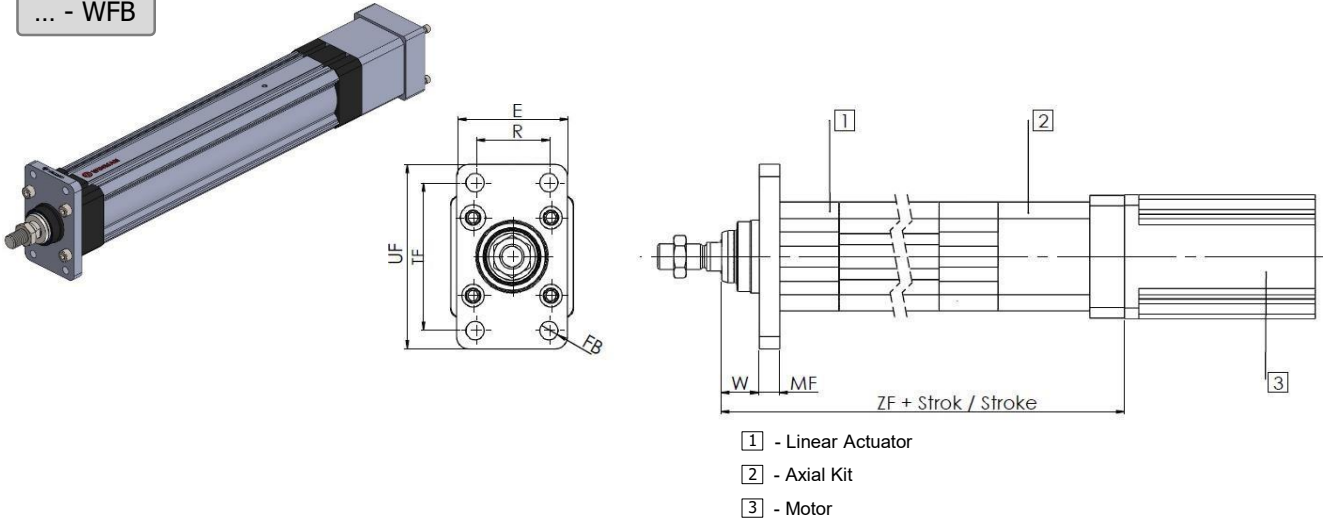


Size	ØAB	AH	AO	AT	AU	SA	SA1	TR	US	XA	XA1
032	7	32	12	5	20	176	-	65	79	177,5	-

WDAK Axial Mounting Kit

WDAK Flansh Mounting

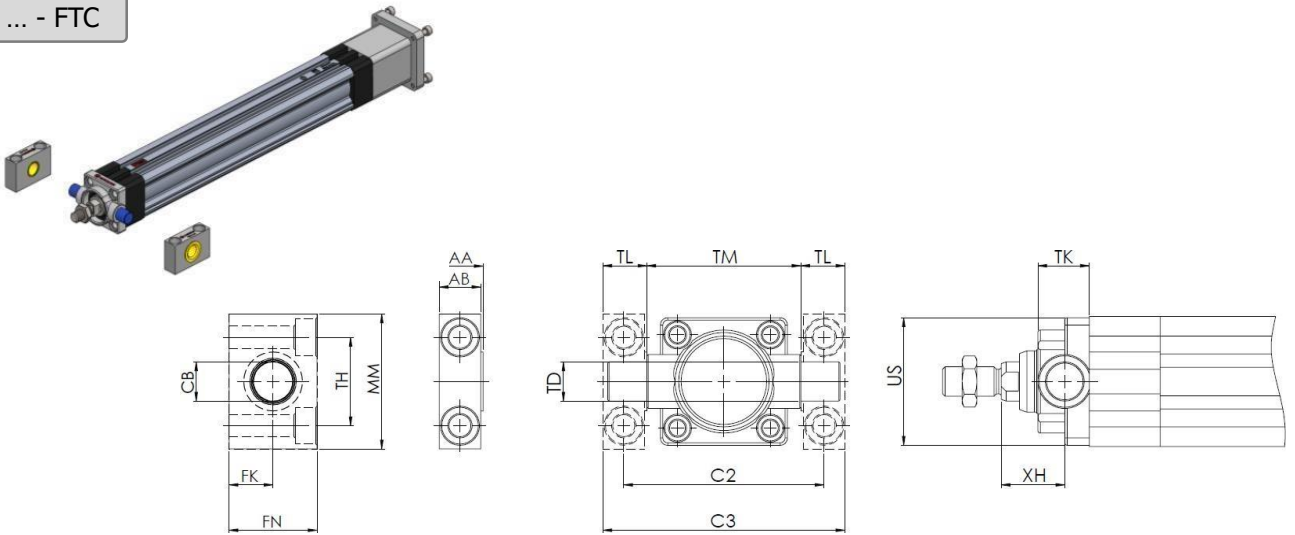
... - WFB



Size	E	FB	MF	R	TF	UF	W	ZF
032	45	7	10	32	64	80	11,5	214

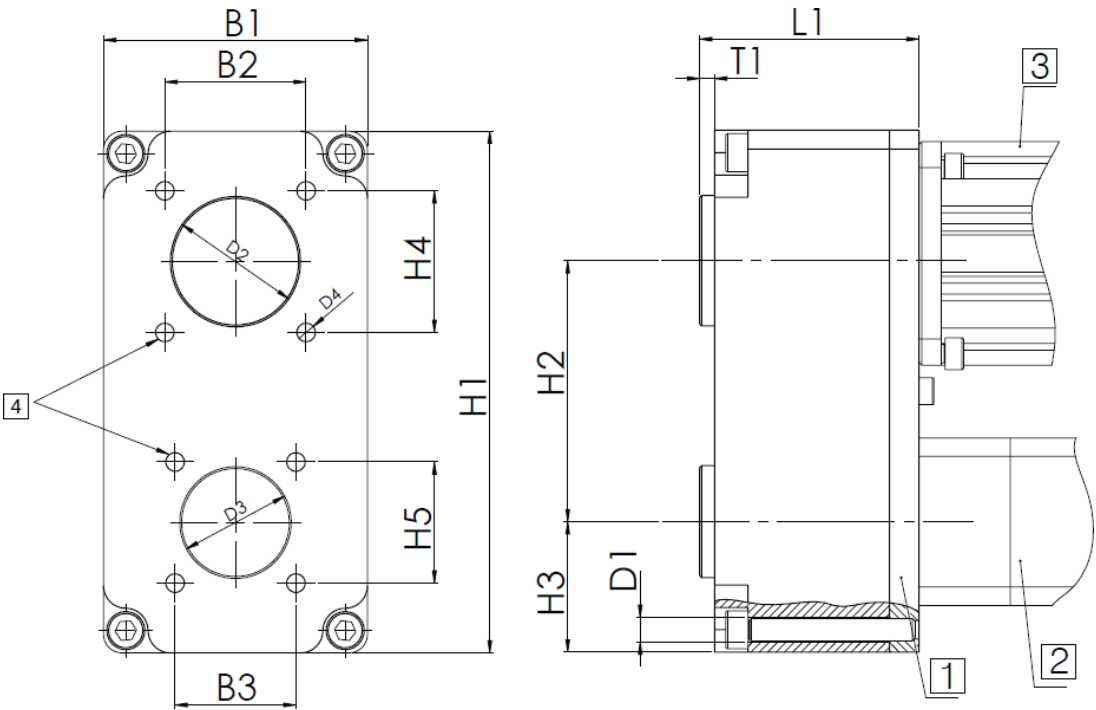
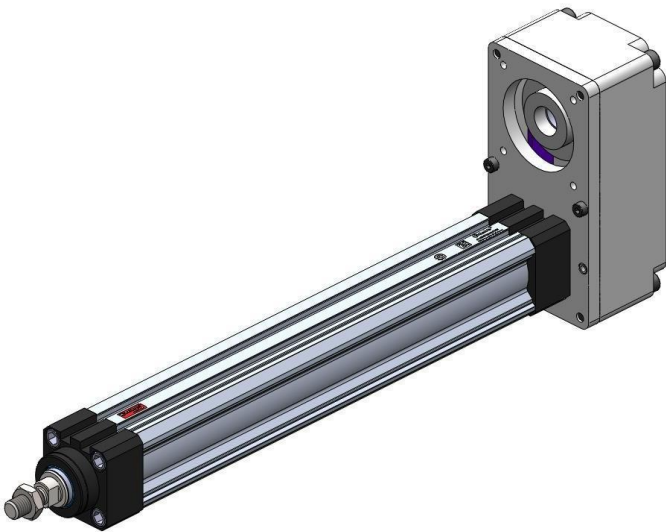
WDAK Axial Mounting Kit

... - FTC



Size	AA	AB	C2	C3	CB	FK	FN	MM	TD	TH	TK	TL	TM	US	XH
032	15	14	66	80	12	15	30	46	12	32	19	12	50	46	16,5

WDPK Parallel Mounting Kit



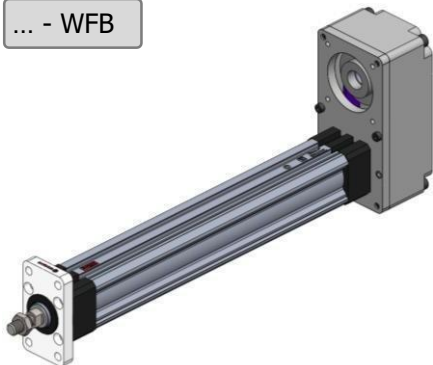
- 1 - Parallel Kit
- 2 - Linear Actuator
- 3 - Motor
- 4 - Mounting Thread

Size	L1	T1	B1	B2	B3	D1	D2	D3	D4	H1	H2	H3	H4	H5
032	59	4	71	38	32,5	M6	35	30	M6	140	70	35	38	32,5

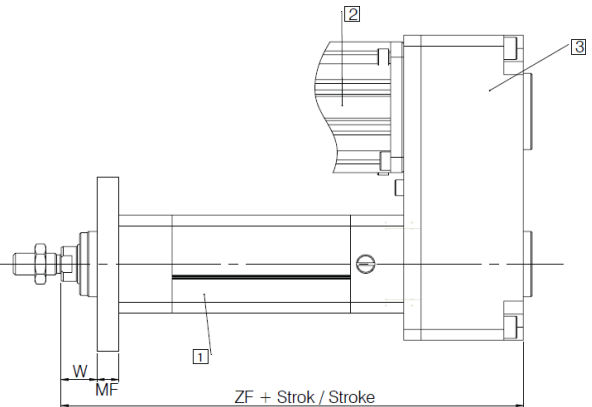
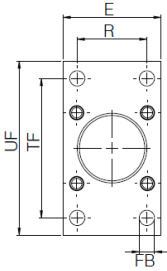
WDPK Axial Mounting Kit

WDPK Flansh Mounting

... - WFB



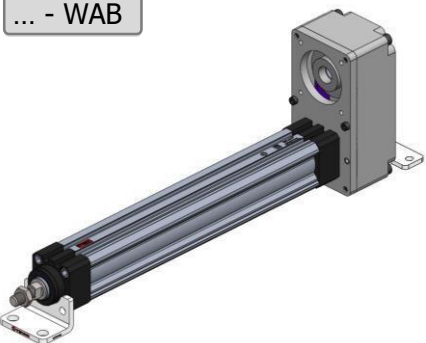
- 1 - Linear Actuator
- 2 - Motor
- 3 - Parallel Kit



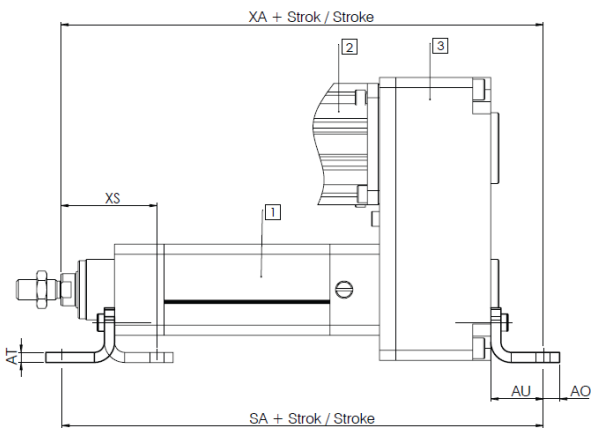
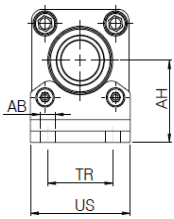
Size	E	ØFB	MF	R	TF	UF	W	ZF
032	45	7	10	32	64	80	16,5	212,5

WDPK Foot Mounting

... - WAB



- 1 - Linear Actuator
- 2 - Motor
- 3 - Parallel Kit



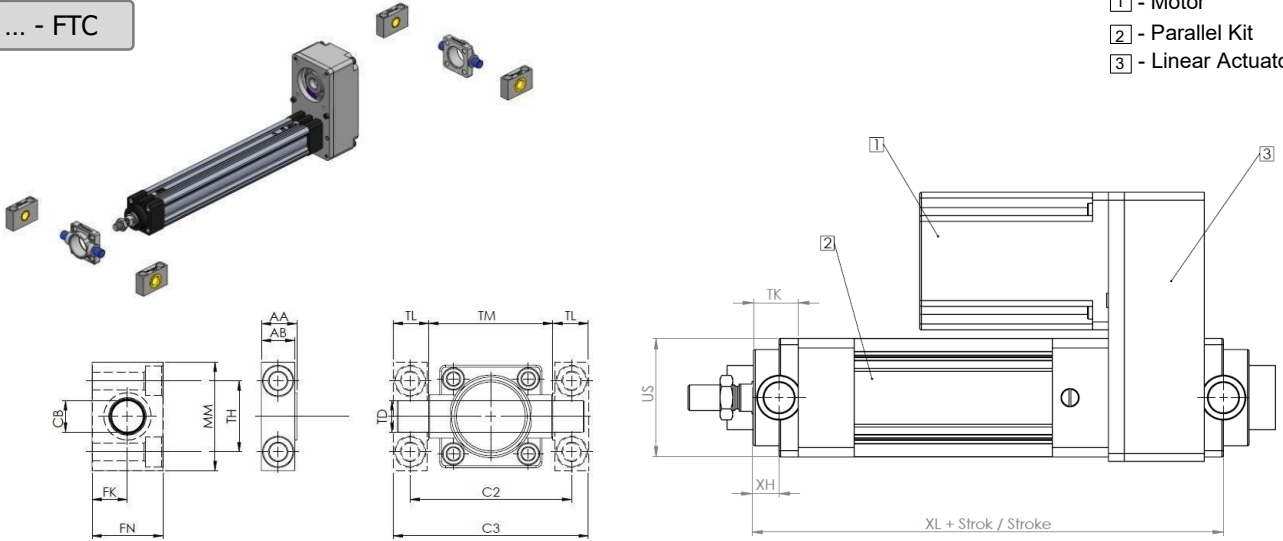
Size	AB	AH	AO	AT	AU	SA	TR	US	XA	XS
032	7	36	8	5	26	231	30	46	227	49,5

WDPK Parallel Mounting Kit

WDPK Swivel Mounting

... - FTC

- 1 - Motor
- 2 - Parallel Kit
- 3 - Linear Actuator

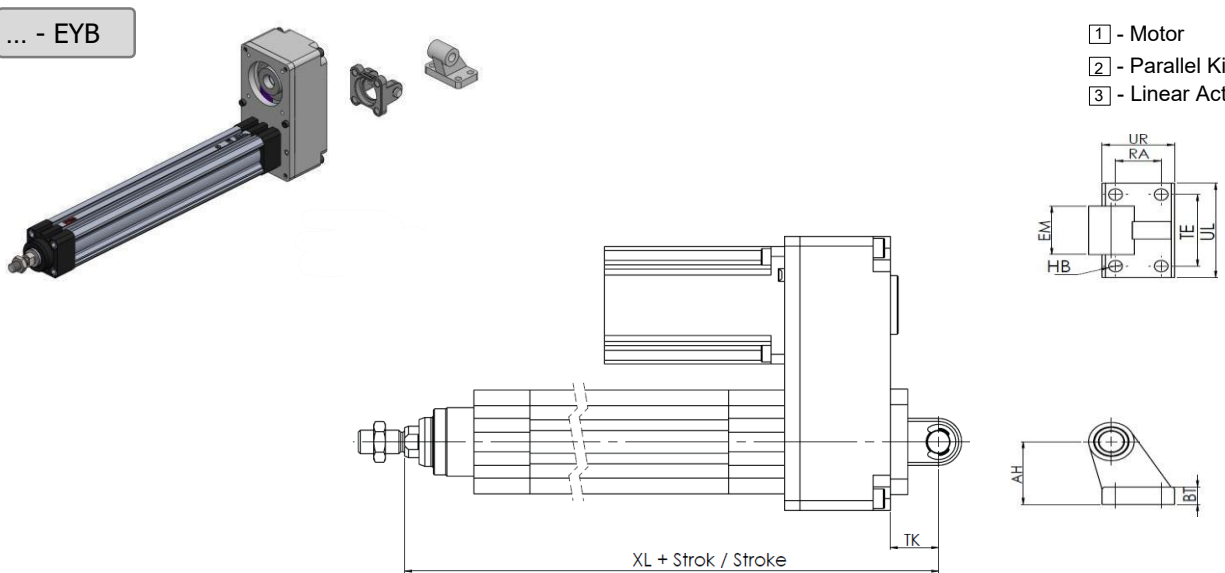


Size	AA	AB	C2	C3	C B	FK	FN	MM	TD	TH	TK	TL	TM	US	XH	XL
032	15	14	66	80	12	15	30	46	12	32	19	12	50	46	16,5	209

WDPK Foot Mounting

... - EYB

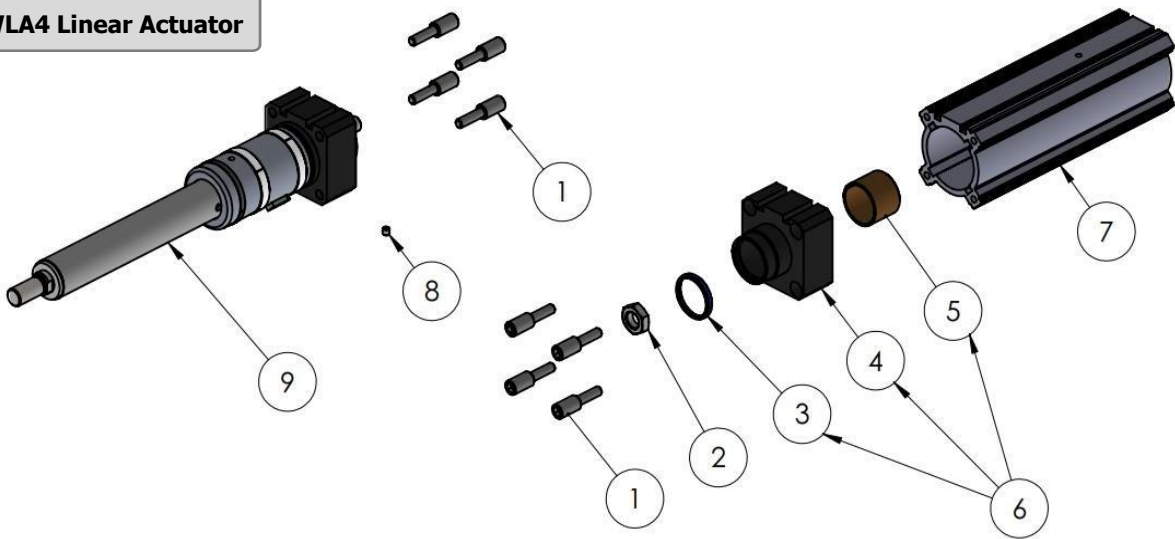
- 1 - Motor
- 2 - Parallel Kit
- 3 - Linear Actuator



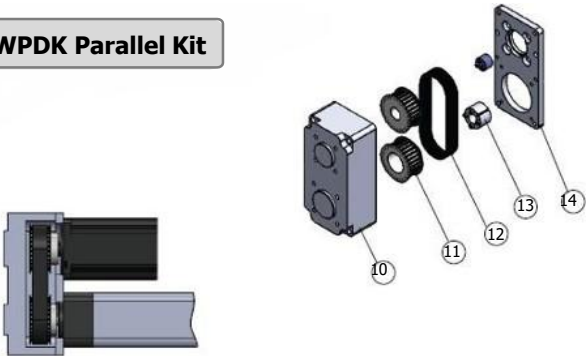
Size	AH	BT	EM	HB	RA	TE	UL	UR	XL
032	32	8	26	6,5	18	38	51	31	229,3

Assembly

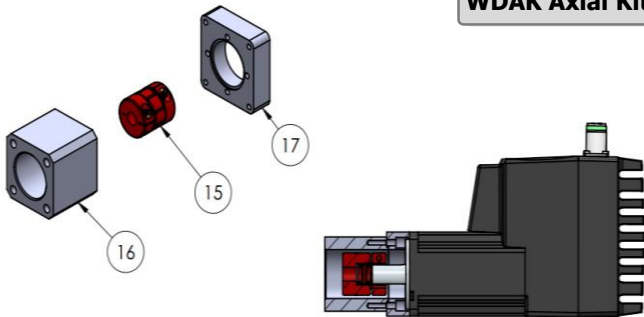
WLA4 Linear Actuator



WPKD Parallel Kit

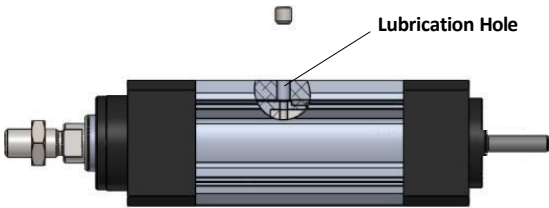


WDAK Axial Kit



Piece	Qty	Part Name	Assembly
1	8	Bolt	Actuator
2	1	Connection Nut	
3	1	Wiper	
4	1	Back Block	
5	1	Bushing	
6	1	Front Block Group Assembly	
7	1	Profile	
8	1	Nipple	Parallel Mounting
9	1	Ball Screw Group Assembly	
10	2	Parallel Kit Cover	
11	1	Timing Belt Pulleys	
12	1	Toothed Belt	
13	1	Taper Bushing	Axial Mounting
14	1	Parallel Kit Cover	
15	1	Coupling	
16	1	Bellhousing	
17	1	Flansh	

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 profile of the linear actuator has port on the top side for access to the lube on the ball nut.

Re-lubrication should be carried out if the defined travel distance is completed or 400 operating hours are reached first. At the end of 2 years, it must be re-lubricated even if the travel distance and working hours are not reached.

For lubrication; set linear actuator to zero stroke position.
Remove the grubs in the lubrication port lubricate the amount indicated in the table and replace the glue after lubrication, move the linear actuator at least three times along the stroke distance. the travel speed must not exceed 10 mm / s.

Linear actuators must be lubricated with suitable grease.

Lithium soap grease should be used.

Caution: Do not use grease containing graphite or MoS!

Lubrication quantity is provided in table by normal operating conditions.

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	≤ 0,4
Screw Rotation Speed	kN	≤ 0,2 C
Load	N	≤ 0,2 P
Stroke	mm	> 60

Lubrication

Actuator Model		WLA4-032
Lubrication Period	km	250
	h	400
Lubrication Dose	cm ³	0,6

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