

LAP/LBP Series Linear Actuator



LINEAR MOTION





Linear Actuator

Acme screw

LAP Series



Ball screw

LBP Series



Screw Jack

Acme screw

SJA Series



Ball screw

SJB Series



Bevel Gear Screw Jack

Ball screw

DHB Series



- LAP Series
- LBP Series
- SJA Series
- SJB Series
- DHB Series
- SCA Series
- SCB Series
- KVL Series
- HD Series
- DMB Series

Screw Jack Actuator

Acme screw

Ball Screw

SCA Series
SCB Series



Stainless Screw Jack

Acme screw

KVL Series

KVK Series



Bevel Gearbox

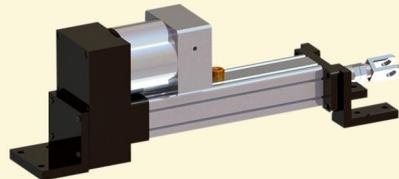
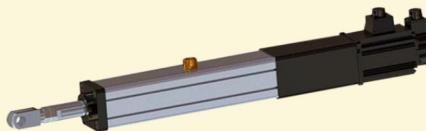
HD Series

T Series



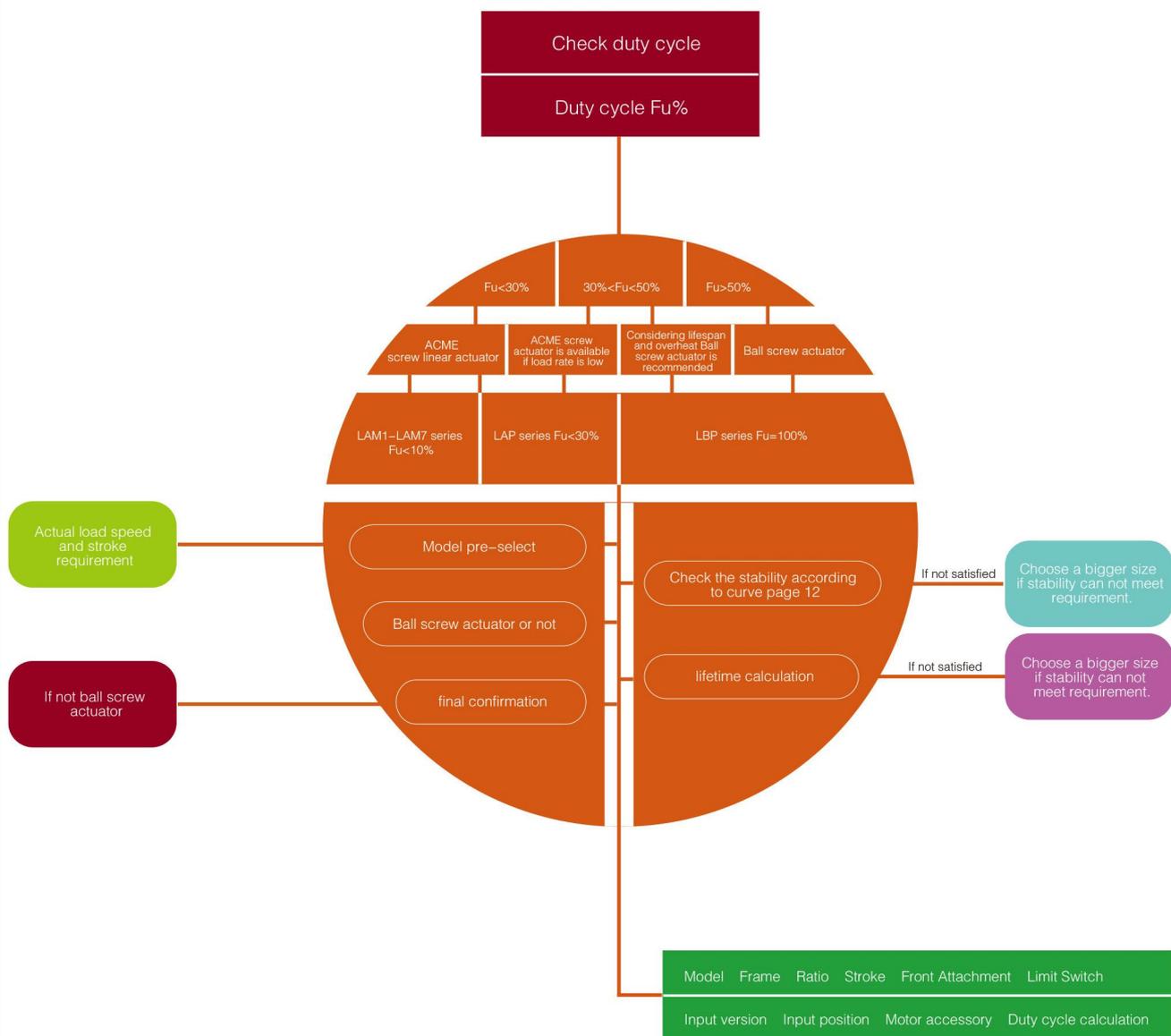
Servo motor cylinder

DMB Series

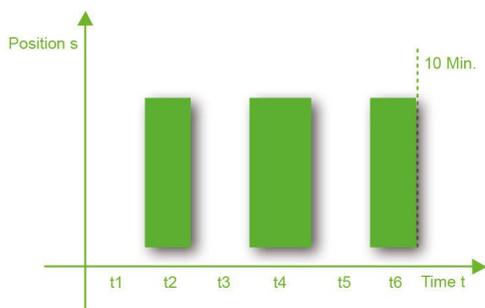




Linear actuator model selection



Duty cycle calculation



$$Fu\% = (t_2 + t_4 + t_6) / 10 \text{ min}$$

Fu% = Working Percentage within 10min

T2, t4, t6 : working time

T1, t3, t5: waiting time

Lifetime calculation

The lifetime of Ball screw linear LBP series depends on the lifetime of ball screw and worm gear and shaft, we just need to calculate the lifetime of screw, worm gear and shaft will wear but normally lifetime is longer than screw.

Nut lifetime calculation:

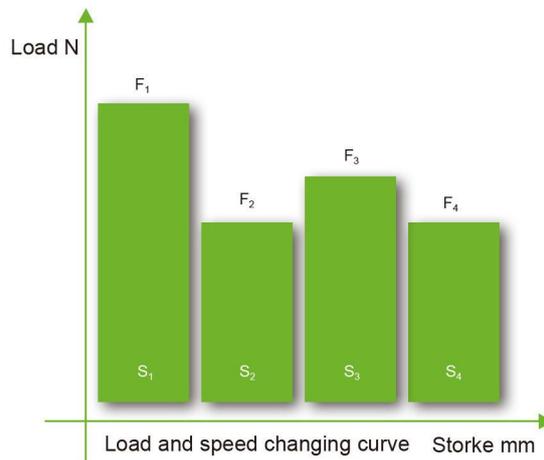
$$L_{10} = (C / F_m)^3 \times S$$

L₁₀: theoretic lifetime km F_m: mean load N

C: Rated dynamic load N S: Ball screw lead mm

F_m mean load calculation:

$$F_m = \sqrt[3]{\frac{F_1^3 S_1 + F_2^3 S_2 + F_3^3 S_3 + F_4^3 S_4}{S_1 + S_2 + S_3 + S_4}}$$





Coding

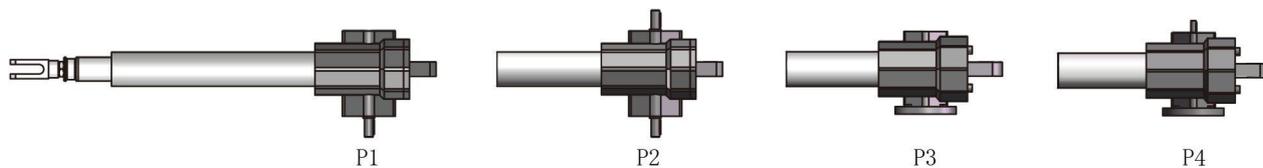
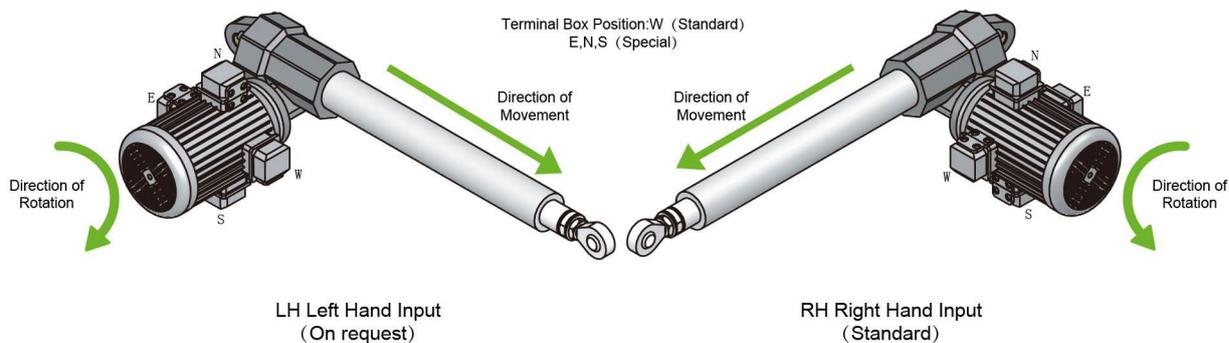
Linear actuator category

LAP Acme Screw Series / LBP Ball Screw Series

High load capacity, Compact size
 Self-locking, Synchronous
 Precision control, multiple positioning
 Ball screw actuator continuous duty cycle
 Modularized combination of various of motor
 Push load range: 10kg to 30 ton



Mounting Position



Coding:

Series	Size	Ratio	Stroke	Front Attachment	Limit Device	Input Versions	Input Shaft	Motor	Power	RPM	Terminal Box Position	Accessories	
LAP Series	22	H1	50	BA Standard head		P1 Single input shaft	RH Right hand	DC12V	kW	rpm	W standard		
LBP Series	25	H2	100	ROE Rod end		P2 Double input shaft	LH Left hand	DC24V	0.06		N, S, E	Brake	
	28	V1	200	FO Clevis end		P3 Motor flange	Note: LAP22 input only RH right side	AC 1-PH 220V	0.09	900		SP	Rear bracket
	32	V2	300	TS Ball joint		P4 Motor flange and		50HZ	0.12	1400		FI	Intermediate support flange
	35	N1	400	FL Flange end				AC 3-PH 380V	0.18	2800		FR	Rear flange
	40	N2	500		FCM (NC) Normally closed magnetic reed switches			220V 50HZ	0.25			FS	Safety clutch
	56	L1	600		FCM (NO) Normally opened magnetic reed switches			SERVO	0.37			AR	Anti-lum device
	63	L2	700		FCP Inductive proximity switches PNP normally closed			STEPPING	0.55			IRE	Encoder
	80	XL1	800		FCE External limit switches				0.75			B	Bellows
	120		Special						1.1			SN	Safety clutch
	200								1.5			ST	Stainless steel protective tube
	300								2.2			RPT90	Rear fixing attachment lum at 90°
									3			HW	Hand wheel



LAP Series Performance Table

Performance Table of LAP Series---With DC Motor 24V

LAP	Type	Speed mm/s	Dynamic Load N	Ratio	Motot Power	Rated current A	Self-locking Coefficient	Weight kg	Extra Weight per 100mm stroke kg
LAP22	LAP22	26-36	400	N2	DC24V	4.5	0.35	2	0.3
LAP25		13-18	750	L2		4.2	0.27		
LAP28		10-13.5	950	N1		4.2	0.22		
LAP32		5-6.5	1400	L1		4.5	0.16		
LAP35	LAP25	32-40	1000	N2	DC24V	9.8	0.35	3.2	0.4
LAP40		16-20	1600	L2		9.5	0.28		
LAP56		12-15	2000	N1		9.6	0.22		
LAP63		6-7.5	3000	L1		9.5	0.17		

Performance Table of LAP Series---With AC 3-Phase Motor

LAP	Type	Speed mm/s	Dynamic Load N	Ratio	Motot Power	Self-locking Coefficient	Weight kg	Extra Weight per 100mm stroke kg
LAP120	LAP22	30	500	N2	0.09kW 2800 380V 50HZ	0.35	2	0.3
LAP200		15	750	L2		0.27		
LAP300		11	900	N1		0.22		
		5.5	1400	L1		0.16		
	LAP25	37	1000	N2	0.09kW 2800 380V 50HZ	0.35	3.2	0.4
		18.5	1600	L2		0.28		
		14	2000	N1		0.22		
		7	3000	L1		0.17		
	LAP28	93	600	H2	0.12kW 2800 380V 50HZ	0.40	5.1	0.3
		60	1000	V2	0.12kW 2800 380V 50HZ	0.41		
		46	850	H2	0.09kW 1400 380V 50HZ	0.40		
		35	1100	H1	0.12kW 2800 380V 50HZ	0.25		
		30	1750	N2		0.35		
		22	1500	V1		0.25		
		15	3000	L2		0.27		
		11	3600	N1	0.22			
		7.5	4000	L2	0.09kW 1400 380V 50HZ	0.27		
		5.5	4000	L1	0.12kW 2800 380V 50HZ	0.16		
	2.8	4000	L1	0.09kW 1400 380V 50HZ	0.16			
	1.9	4000	XL1	0.11				
	LAP32	93	830	H2	0.18kW 2800 380V 50HZ	0.38	5.8	0.5
		60	1250	V2		0.38		
		46	1300	H1		0.27		
		30	2200	N2		0.33		
		23	1650	H1	0.12kW 1400 380V 50HZ	0.27		
		15	3750	L2	0.18kW 2800 380V 50HZ	0.25		
		7.5	5550	L1	0.18			
		3.5	6000	L1	0.12kW 1400 380V 50HZ	0.18		
	1.9	6000	XL1	0.12				
	LAP35	93	1300	V2	0.25kW 2800 380V 50HZ	0.37	7.4	0.8
		46	2100	V1		0.25		
		23	4300	N2		0.28		
		15	6000	L2		0.22		
		11	6300	N1	0.20			
		7.5	10000	L1	0.16			
		5.5	9000	N1	0.20			
	4	10000	L1	0.18kW 1400 380V 50HZ	0.16			

Type	Speed mm/s	Dynamic Load N	Ratio	Motot Power	Self-locking Coefficient	Weight kg	Extra Weight per 100mm stroke kg
LAP40	93	3000	V2	0.55kW 2800 380V 50HZ	0.37	12.9	0.9
	46	4400	V1		0.26		
	23	10000	N2		0.25		
	18	12000	L2		0.24		
	11	12000	N1		0.18		
	9	12000	L2	0.37kW 1400 380V 50HZ	0.24		
	5.5	12000	N1		0.18		
	4.5	12000	L1		0.17		
LAP56	93	11000	V2	2.2kW 2800 380V 50HZ	0.35	50	2
	46	15000	V2	1.5kW 1400 380V 50HZ	0.35		
	30	20000	N2	2.2kW 2800 380V 50HZ	0.26		
	23	18000	V1	1.5kW 1400 380V 50HZ	0.24		
	15	25000	N2		0.26		
	11	25000	L2	0.75kW 1400 380V 50HZ	0.23	40	
	7.5	25000	N1		0.18		
	5.5	25000	L1		0.15		
LAP63	89	15000	V2	3.0kW 2800 380V 50HZ	0.34	80	4
	44	30000	V2	3.0kW 1400 380V 50HZ	0.34		
	30	40000	N2	3.0kW 2800 380V 50HZ	0.26		
	22	42000	V1	3.0kW 1400 380V 50HZ	0.21		
	15	50000	N2	2.2kW 1400 380V 50HZ	0.26	70	
	11	50000	L2		0.23		
	7.5	50000	N1	1.5kW 1400 380V 50HZ	0.18		
	5.5	50000	L1		0.15		
LAP80	134	14000	V2	4.0kW 2800 380V 50HZ	0.35	150	6
	77	20000	XV2		0.32		
	67	28000	V2	4.0kW 1400 380V 50HZ	0.35		
	46	35000	N2	4.0kW 2800 380V 50HZ	0.24		
	38	40000	XV2	4.0kW 1400 380V 50HZ	0.32		
	33	40000	V1		0.24		
	23	70000	N2		0.24		
	19	65000	XV1		0.20		
	17	80000	L2		0.22		
	11	80000	N1		0.16		
8.5	80000	L1	3.0kW 1400 380V 50HZ	0.15	140		
LAP120	77	35 kN	H2	7.5kW 1400rpm 380V 50Hz	0.35	310	9.2
	52	37kN	H2	5.5kW 950rpm 380V 50Hz	0.35		
	45	45 kN	H1	7.5kW 1400rpm 380V 50Hz	0.23		
	38.5	66kN	N2		0.30		
	30.5	48kN	H1	5.5kW 950rpm 380V 50Hz	0.23		
	26	75 kN	N2		0.24		
	22.5	85kN	N1	7.5kW 1400rpm 380V 50Hz	0.24		
	19	114kN	L2		0.22		
	15	90kN	N1	5.5kW 950rpm 380V 50Hz	0.18		
	13	118kN	L2		0.22		
	11	125 kN	L1	7.5kW 1400rpm 380V 50Hz	0.16		
	7.5	125 kN	L1	5.5kW 950rpm 380V 50Hz	0.16		



LAP	Type	Speed mm/s	Dynamic Load N	Ratio	Motot Power	Self-locking Coefficient	Weight kg	Extra Weight per 100mm stroke kg				
LAP200	LAP200	77	48 kN	H2	11kW 1400rpm 380V 50Hz	0.34	450	13				
		52	48 kN	H2	7.5kW 950rpm 380V 50Hz	0.34						
		45	60 kN	H1	11kW 1400rpm 380V 50Hz	0.23						
		38	90 kN	N2		0.26						
		30	60 kN	H1	7.5kW 950rpm 380V 50Hz	0.23						
		26	90kN	N2		0.26						
		22	112kN	N1	11kW 1400rpm 380V 50Hz	0.16						
		19	160 kN	L2		0.22						
		15	112 kN	N1	7.5kW 950rpm 380V 50Hz	0.16						
		13	160 kN	L2		0.22						
		11	200 kN	L1	11kW 1400rpm 380V 50Hz	0.14						
		7.5	200 kN	L1	7.5kW 950rpm 380V 50Hz	0.14						
		LAP300	LAP300	70.6	85 kN	H2			18.5kW 1400rpm 380V 50Hz	0.36	725	21
				47.9	100 kN	H2			15kW 950rpm 380V 50Hz	0.35		
				40.3	105 kN	H1			18.5kW 1400rpm 380V 50Hz	0.26		
35.3	160 kN			N2	0.31							
27.3	125 kN			H1	15kW 950rpm 380V 50Hz	0.24						
23.9	185kN			N2		0.24						
20	200kN			N1	18.5kW 1400rpm 380V 50Hz	0.21						
17.6	280 kN			L2		0.21						
13.6	235 kN			N1	15kW 950rpm 380V 50Hz	0.18						
11.9	300 kN			L2		0.18						
10.1	300 kN			L1	18.5kW 1400rpm 380V	0.16						
6.8	300 kN			L1	15kW 950rpm 380V50Hz	0.15						

Note: LAP series linear actuator can be equipped with AC 1-phase motor, DC motor, stepper motor, servo motor.
 Working temperature : -15°C - +40°C, (if -40°C - +70°C, consult Lude Transmission)

LBP Series Performance Table

Performance Table of LBP Series---With DC Motor 24V

Type	Speed mm/s	Dynamic Load N	Ratio	Motot Power	Rated current A	Self-locking Coefficient	Weight kg	Extra Weight per 100mm stroke kg
LBP25	16-20	2000	N1	DC24V	9.6	0.49	3.2	0.4
	8-10	2700	L1		9.5	0.37		

Performance Table of LBP Series---With AC 3-Phase Motor

Type	Speed mm/s	Dynamic Load N	Ratio	Motot Power	Self-locking Coefficient	Weight kg	Extra Weight per 100mm stroke kg
LBP25	18.6	2000	N1	0.09kW 2800 380V 50HZ	0.49	3.2	0.4
	9.3	2700	L1		0.37		
LBP32	58	1500	H1	0.18kW 2800 380V 50HZ	0.56	5.8	0.5
	37	2200	V1		0.56		
	29	2400	H1	0.12kW 1400 380V 50HZ	0.56		
	18.5	3500	N1	0.18kW 2800 380V 50HZ	0.48		
	9.3	4400	N1	0.12kW 1400 380V 50HZ	0.48		
	4.6	4500	L1		0.37		
LBP35	58	2600	V1	0.25kW 2800 380V 50HZ	0.56	7.4	0.8
	29	3400	V1	0.18kW 1400 380V 50HZ	0.56		
	14.5	4500	N1	0.25kW 2800 380V 50HZ	0.43		
	9.7	5400	L1		0.34		
	7.2	5400	N1	0.18kW 1400 380V 50HZ	0.43		
	4.8	5500	L1		0.34		
LBP40	46.6	4800	V1	0.55kW 2800 380V 50HZ	0.56	13	0.9
	23.3	5800	V1	0.37kW 1400 380V 50HZ	0.56		
	11.6	7200	N1	0.55kW 2800 380V 50HZ	0.38		
	9.3	7600	L1		0.36		
	5.8	8000	N1	0.37kW 1400 380V 50HZ	0.38		
	4.6	8000	L1		0.36		
LBP56	78	12500	V1	1.5kW 2800 380V 50HZ	0.56	50	2
	39	15500	V1	1.5kW 1400 380V 50HZ	0.56		
	26	18000	N1	1.5kW 2800 380V 50HZ	0.43		
	18.5	20000	L1	1.1kW 2800 380V 50HZ	0.37	40	
	13	22000	N1	0.75kW 1400 380V 50HZ	0.43		
	9.3	25000	L1		0.37		
LBP120	64	52kN	H2	5.5KW 1400rpm 380V 50Hz	0.53	295	9.2
	51.5	62kN	H1	5.5KW 1400rpm 380V 50Hz	0.53		
	43.5	54kN	H2	4.0KW 950rpm 380V 50Hz	0.51		
	35	66kN	H1	4.0KW 950rpm 380V 50Hz	0.48		
	32	70kN	N2	4.0KW 1400rpm 380V 50Hz	0.45		
	25.5	86kN	N1	4.0KW 1400rpm 380V 50Hz	0.45		
	21.5	74kN	N2	3.0KW 950rpm 380V 50Hz	0.44		
	17	88kN	N1	3.0KW 950rpm 380V 50Hz	0.44		
	16	88kN	L2	3.0KW 1400rpm 380V 50Hz	0.42	275	
	12.5	90kN	L1	3.0KW 1400rpm 380V 50Hz	0.42		
	10.5	90kN	L2	2.2KW 950rpm 380V 50Hz	0.42	295	
8.5	90kN	L1	2.2KW 950rpm 380V 50Hz	0.42			

Note: LBP series linear actuator can be equipped with AC 1-phase motor, DC motor, stepper motor, servo motor.

Working temperature : -15°C - +40°C, (if -40°C - +70°C, consult Lude Transmission)

LBP63/80 series linear actuator are also available



Type	Speed mm/s	Dynamic Load N	Ratio	Motot Power	Self-locking Coefficient	Weight kg	Extra Weight per 100mm stroke kg		
LBP200	80	85kN	H2	11KW 1400rpm 380V 50Hz	0.55	470	13		
	64	103kN	H1	11KW 1400rpm 380V 50Hz	0.55				
	54	103kN	H2	9.2KW 950rpm 380V 50Hz	0.55				
	43	125kN	H1	9.2KW 950rpm 380V 50Hz	0.55				
	40	132kN	N2	9.2KW 1400rpm 380V 50Hz	0.46				
	32	165kN	N1	9.2KW 1400rpm 380V 50Hz	0.46				
	27	155kN	N2	7.5KW 950rpm 380V 50Hz	0.46				
	21.5	185kN	N1	7.5KW 950rpm 380V 50Hz	0.46				
	20	185kN	L2	7.5KW 1400rpm 380V 50Hz	0.42	450			
	16	185kN	L1	7.5KW 1400rpm 380V 50Hz	0.42				
	13.5	185kN	L2	5.5KW 950rpm 380V 50Hz	0.42				
	10.5	185kN	L1	5.5KW 950rpm 380V 50Hz	0.42				
	LBP300	80	115kN	H2	15KW 1400rpm 380V 50Hz	0.56		715	16
		63	105kN	H1	11KW 1400rpm 380V 50Hz	0.56			
54.6		120kN	H2	11KW 950rpm 380V 50Hz	0.55				
42.5		150kN	H1	11KW 950rpm 380V 50Hz	0.55				
40		130kN	N2	9.2KW 1400rpm 380V 50Hz	0.46				
31.5		160kN	N1	9.2KW 1400rpm 380V 50Hz	0.46				
27.3		185kN	N2	9.2KW 950rpm 380V 50Hz	0.44				
21		230kN	N1	9.2KW 950rpm 380V 50Hz	0.44				
20		230kN	L2	9.2KW 1400rpm 380V 50Hz	0.41				
15.5		235kN	L1	7.5KW 1400rpm 380V 50Hz	0.41				
13.6		235kN	L2	7.5KW 950rpm 380V 50Hz	0.41				
10.5		235kN	L1	5.5KW 950rpm 380V 50Hz	0.41				

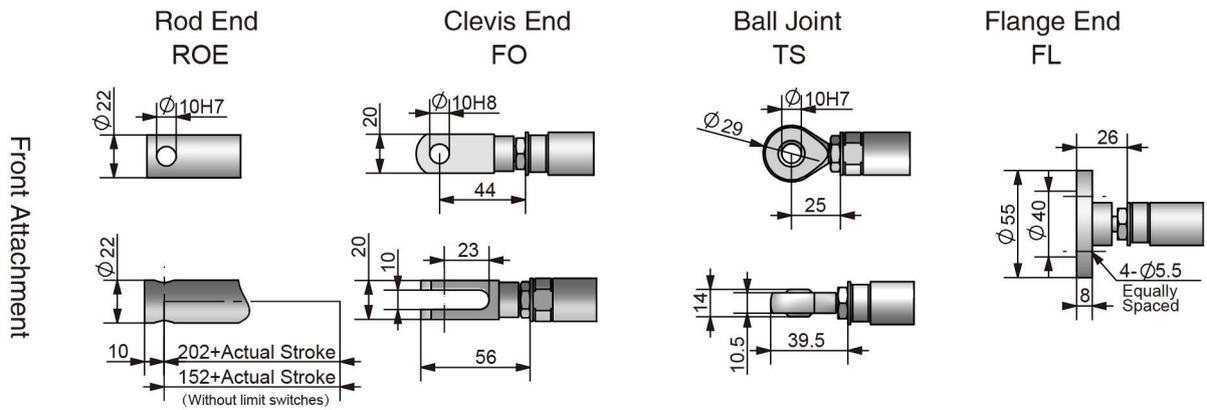
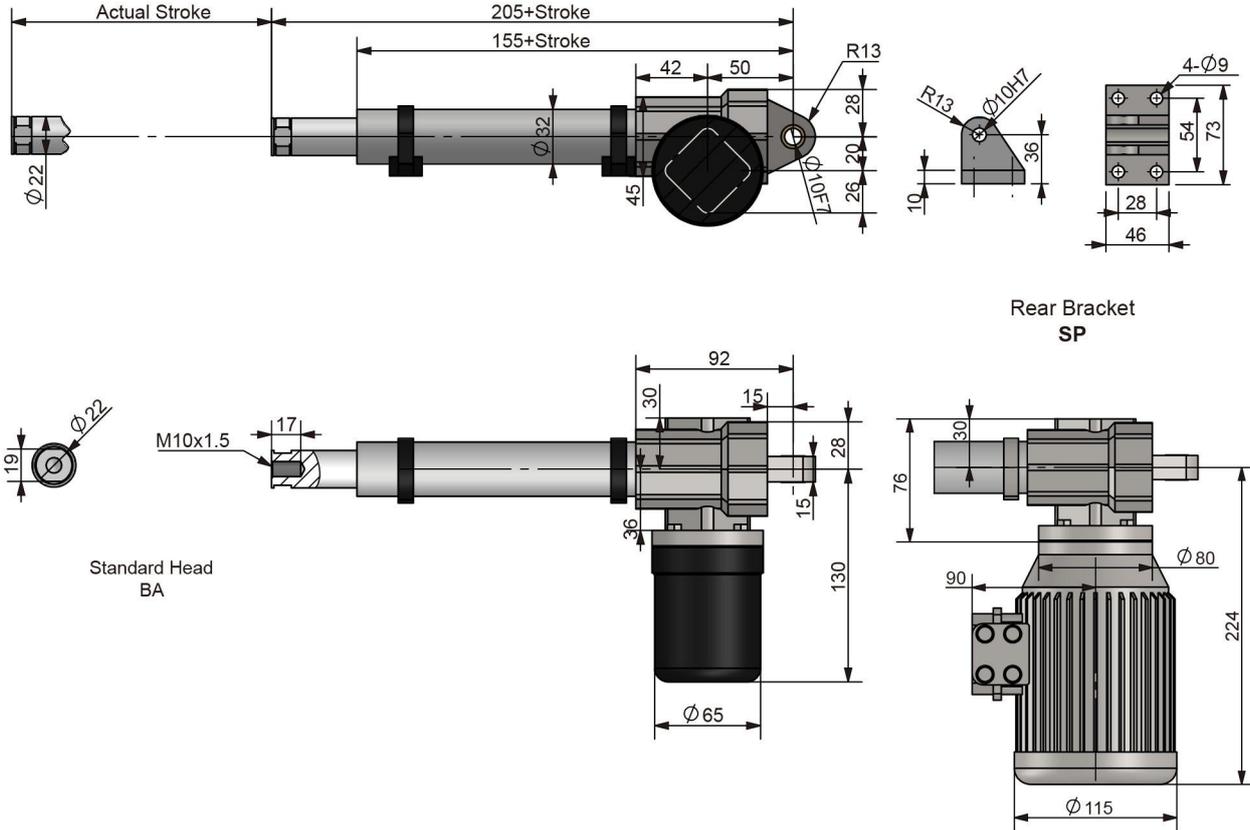
Rated dynamic load table:

Type	Rated dynamic load KN	lead mm
LBP25	4.25	4
LBP32	7.8	5
LBP35	11.3	5
LBP40	18.0	5
LBP56	33.9	10
LBP120	90	16
LBP200	185	25
LBP300	235	25

Overall Dimension of LAP Series Linear Actuator

Dimension of LAP22

With magnetic reed switches FCM



Stroke Code	100	150	200	300
Actual Stroke	100	150	200	300

Note: LAP22 matches AC 3 phase motor without brake option.

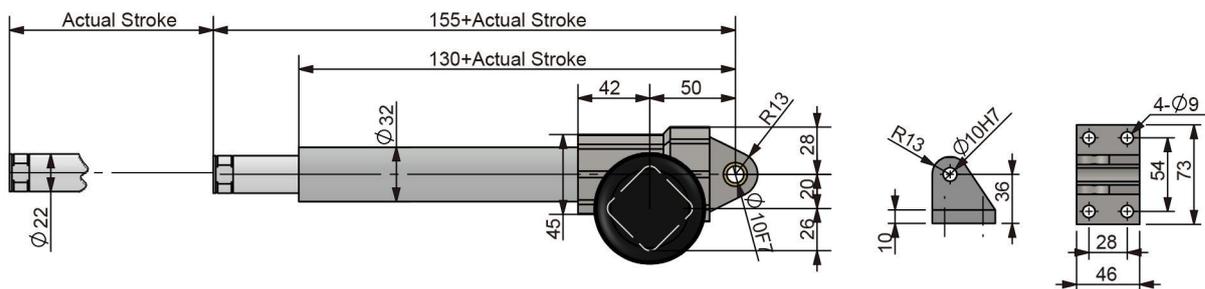


LINEAR MOTION

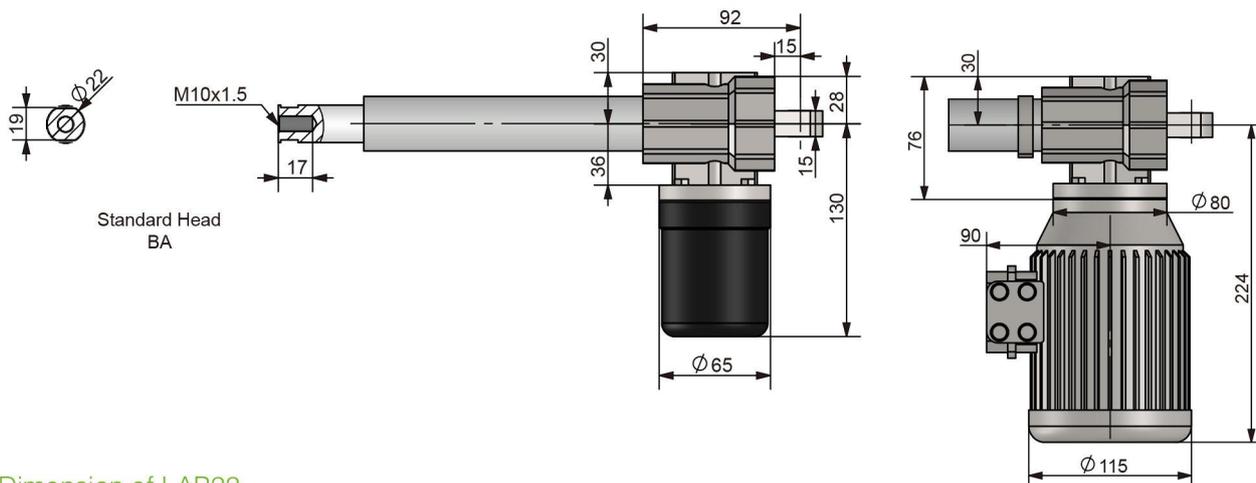
Overall Dimension of LAP Series Linear Actuator

Dimension of LAP22

Without limit switches



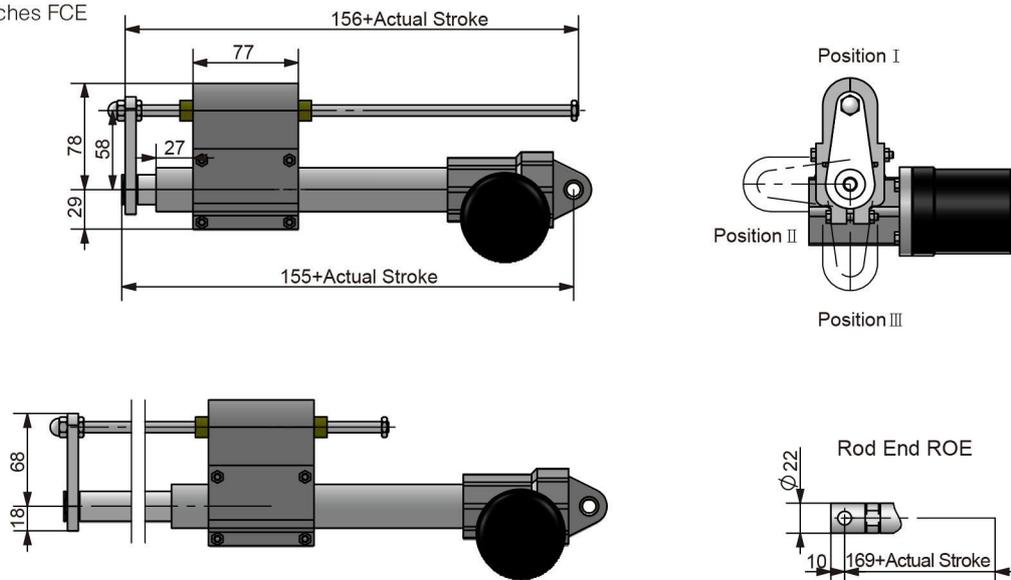
Rear Bracket
SP



Standard Head
BA

Dimension of LAP22

With external limit switches FCE



Position I

Position II

Position III

Rod End ROE

Stroke Code	100	150	200	300
Actual Stroke	125	175	225	325

Note: LAP22 matches AC 3 phase motor without brake option.

LAP

LAP22

LAP25

LAP28

LAP32

LAP35

LAP40

LAP56

LAP63

LAP80

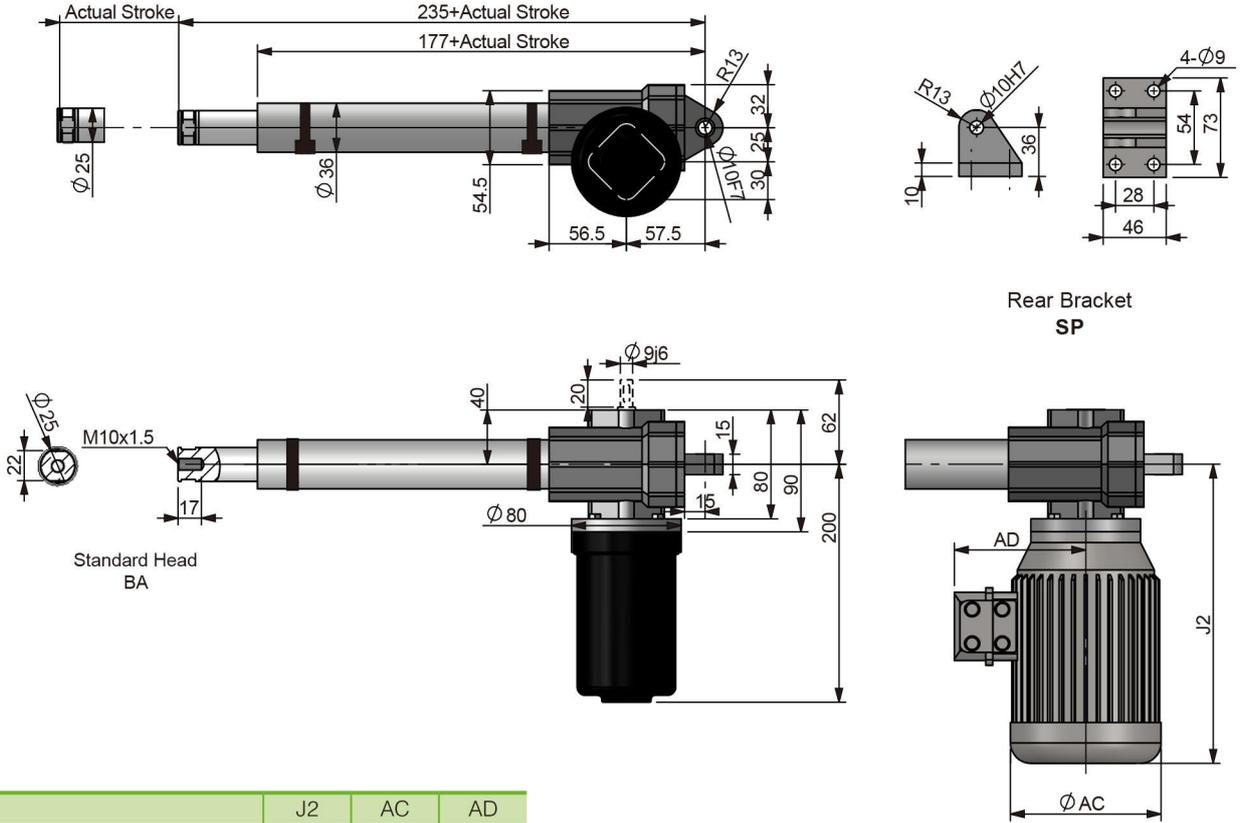
LAP120

LAP200

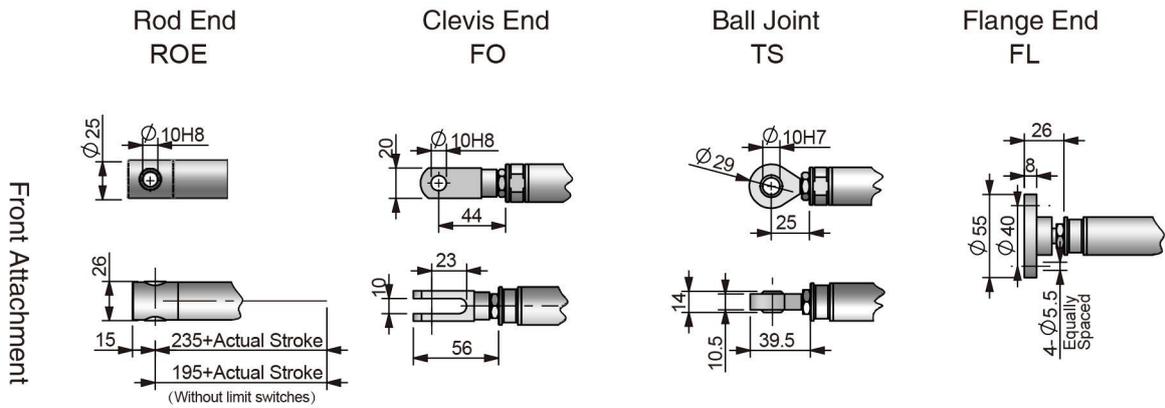
LAP300

Dimension of LAP25

With magnetic reed switches FCM



	J2	AC	AD
With standard motor 56B14	228	115	90
With brake motor 63B14	279	130	95



Stroke Code	100	200	300	400	500
Actual Stroke	100	200	300	400	500

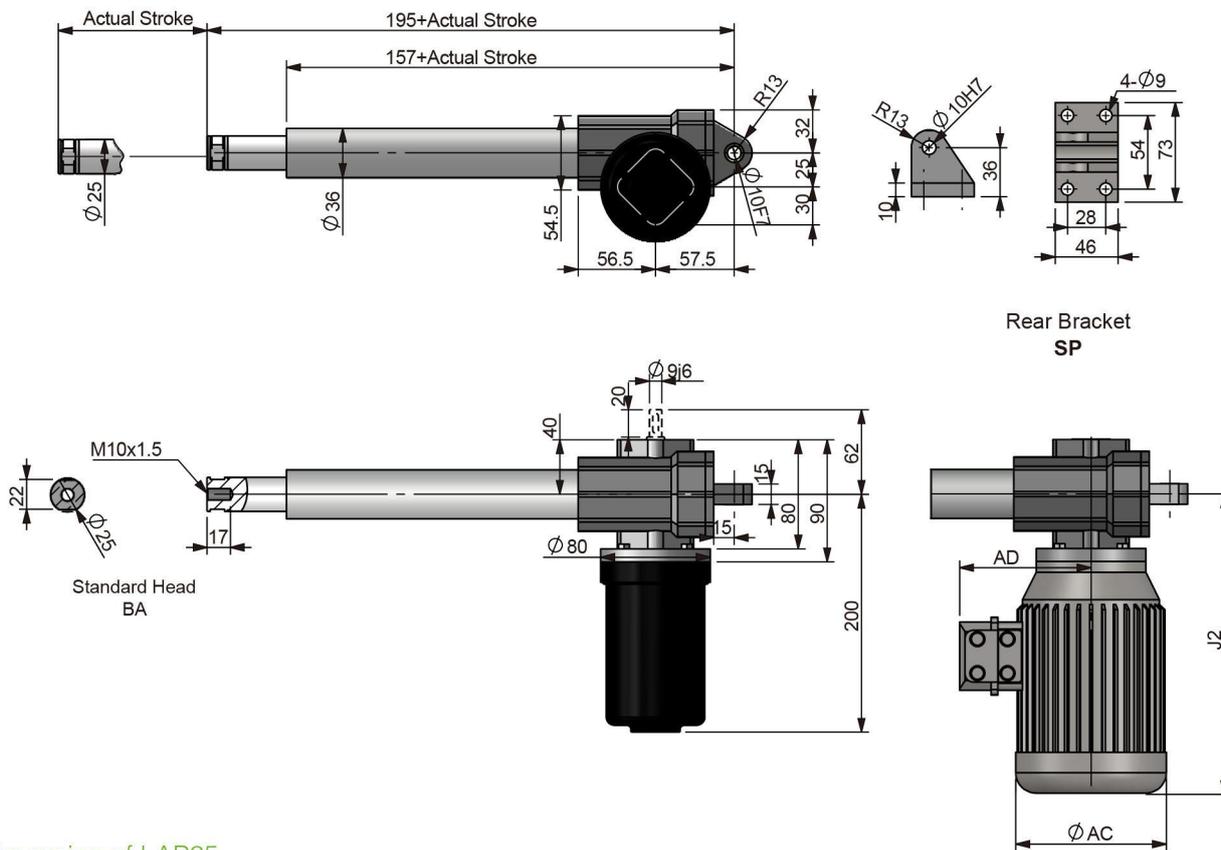


LINEAR MOTION

Overall Dimension of LAP Series Linear Actuator

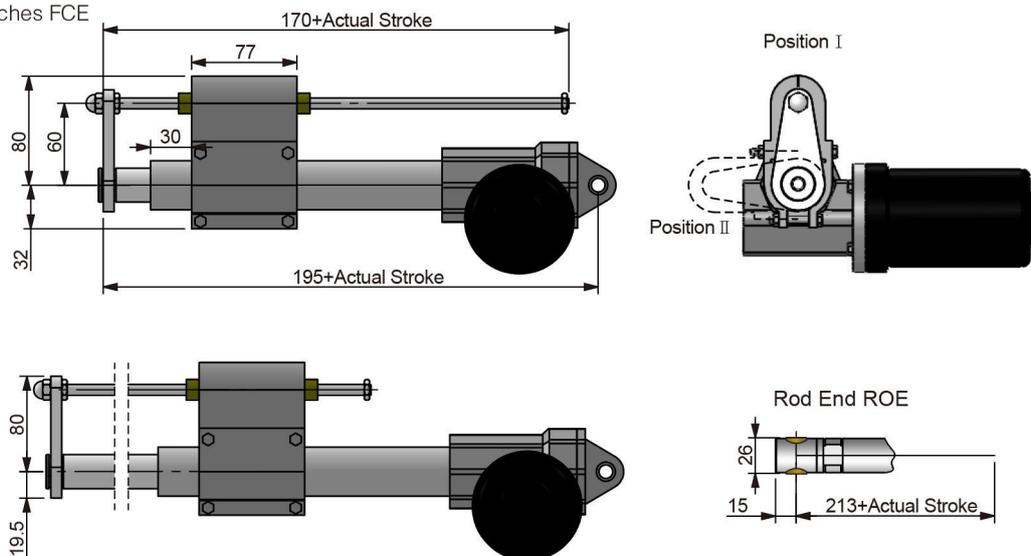
Dimension of LAP25

Without limit switches



Dimension of LAP25

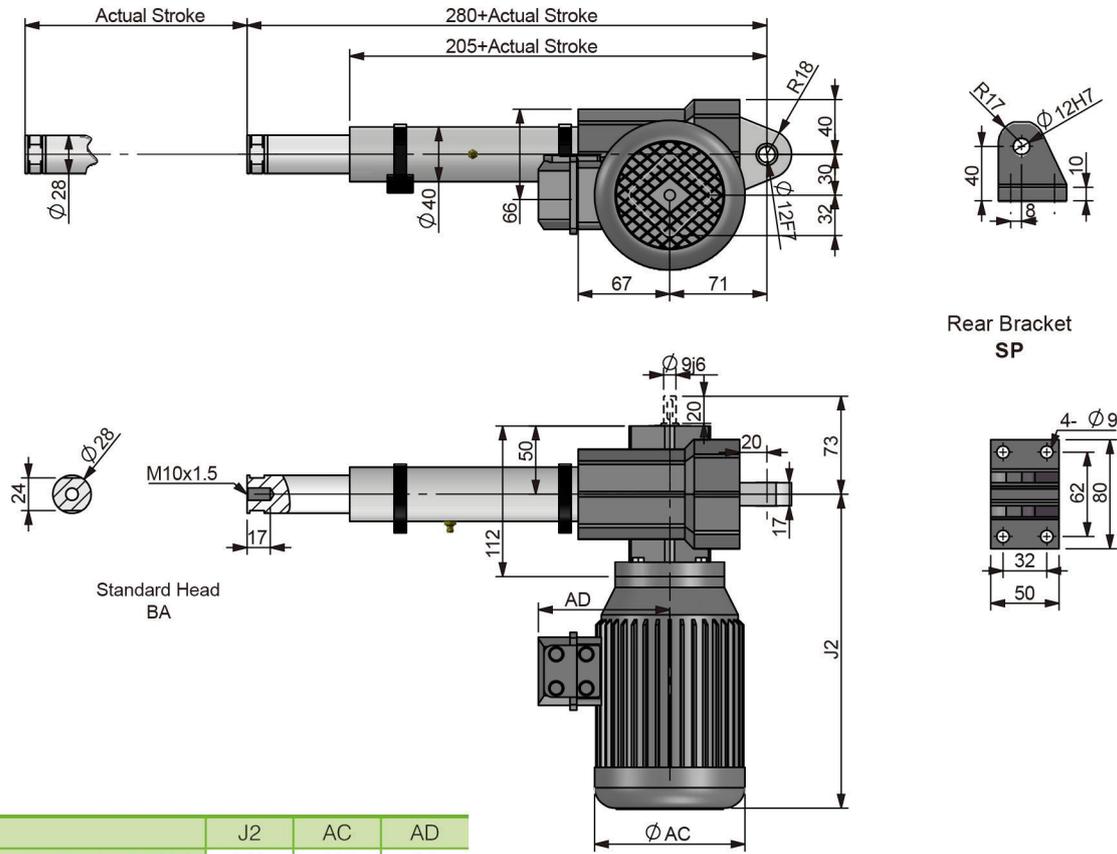
With external limit switches FCE



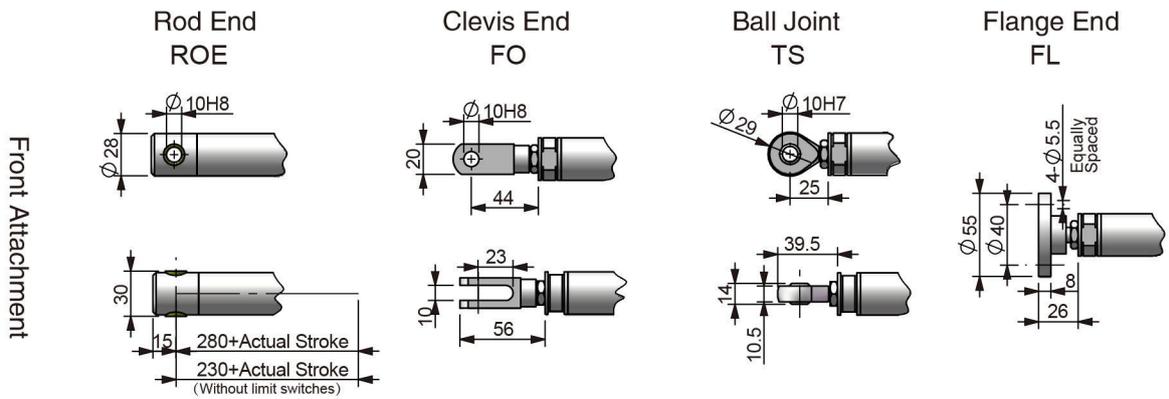
Stroke Code	100	200	300	400	500
Actual Stroke	120	220	320	420	520

Dimension of LAP28

With magnetic reed switches FCM



	J2	AC	AD
With standard motor 56B14	240	115	90
With brake motor 63B14	291	130	95



Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	100	200	300	400	500	600	700	800

Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

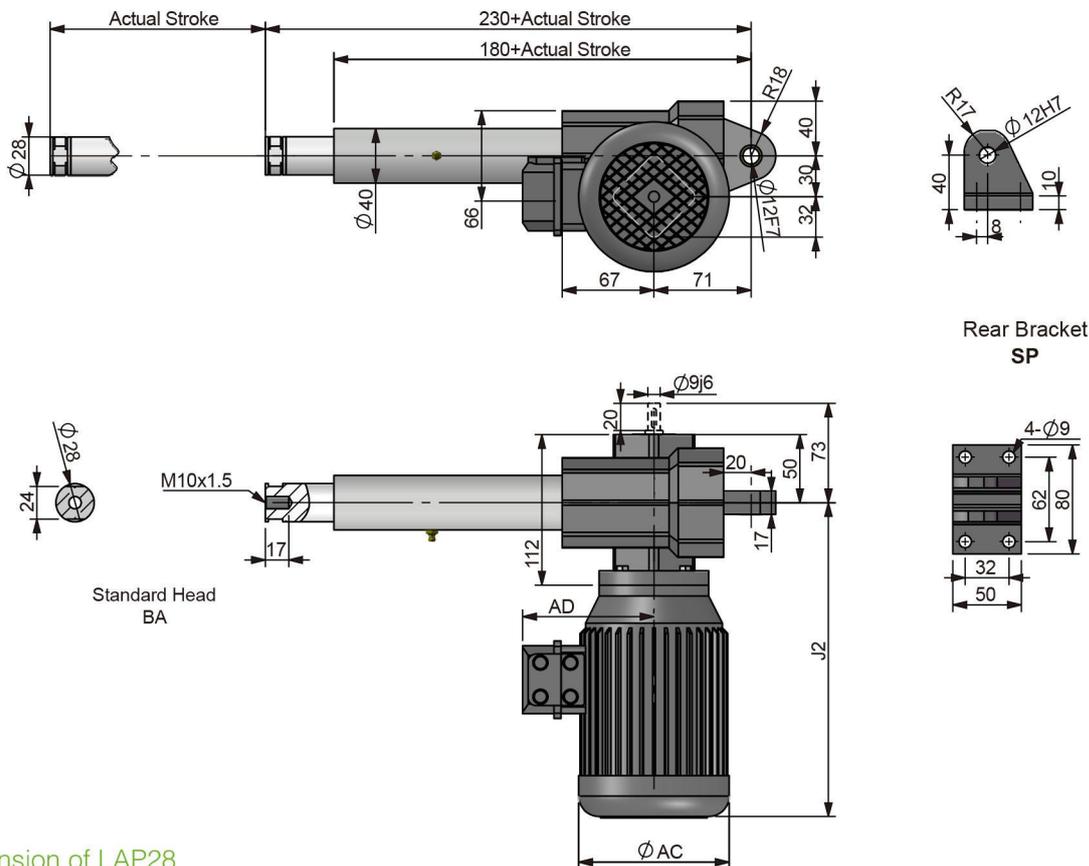


LINEAR MOTION

Overall Dimension of LAP Series Linear Actuator

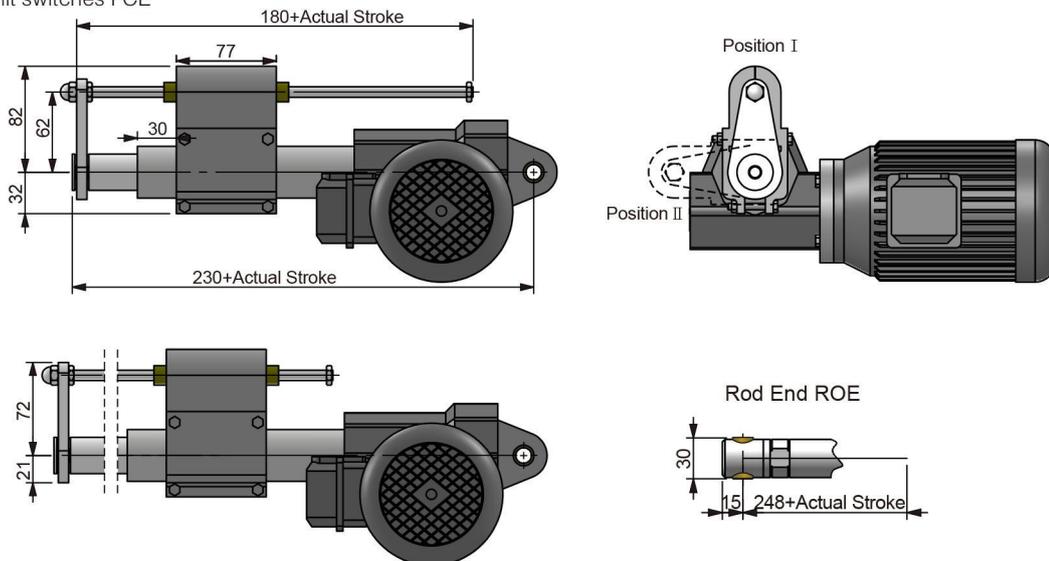
Dimension of LAP28

Without limit switches



Dimension of LAP28

With external limit switches FCE

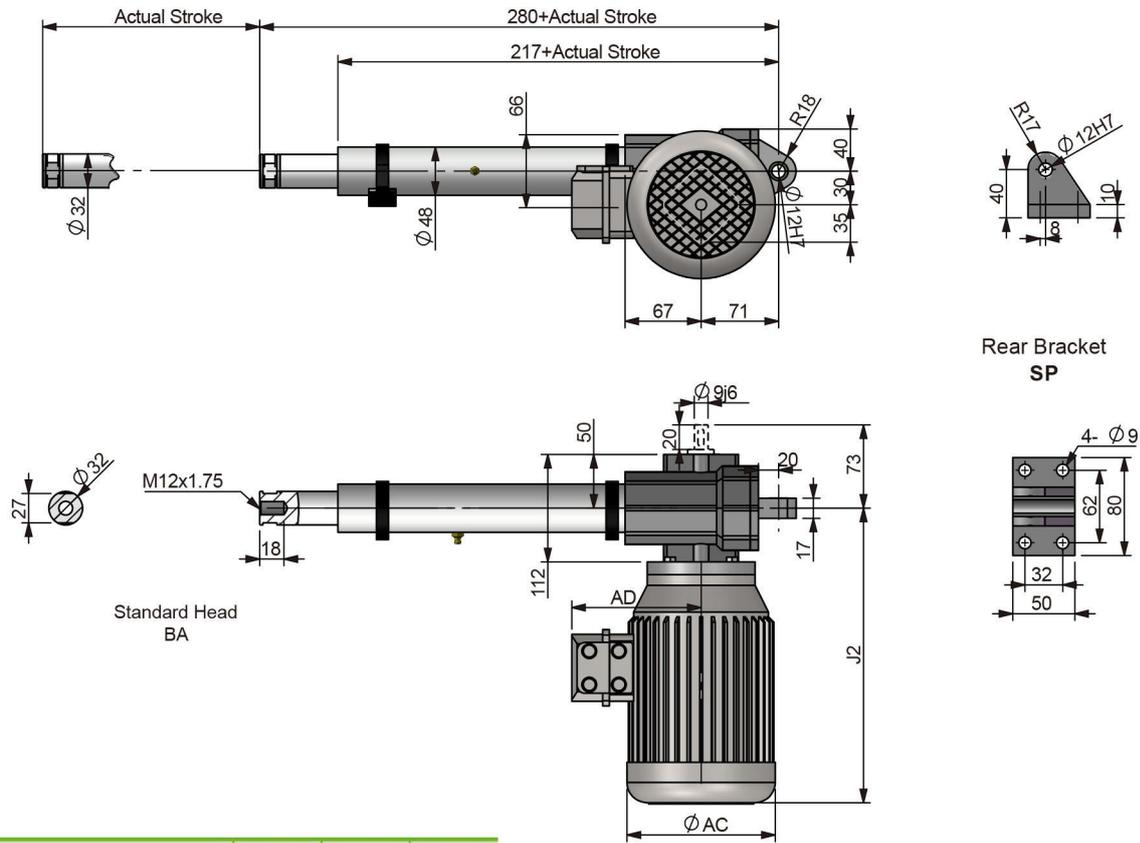


Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	125	225	325	425	525	625	725	825

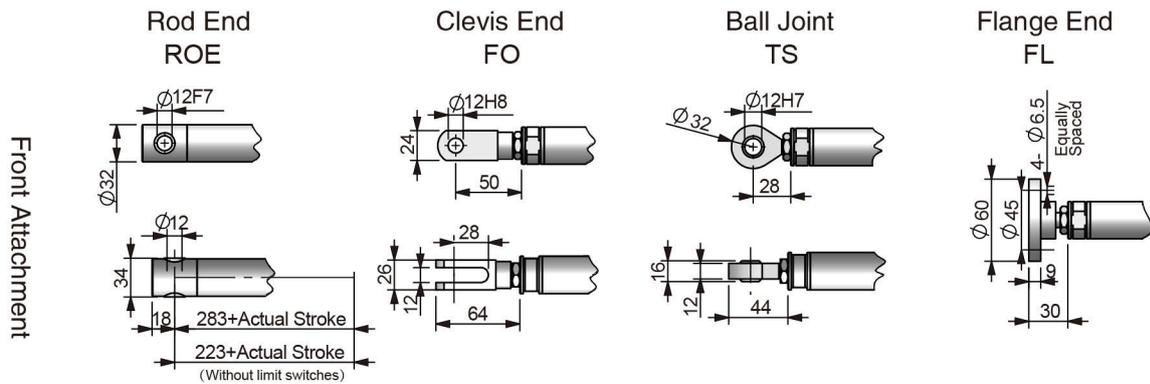
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LAP32

With magnetic reed switches FCM



	J2	AC	AD
With standard motor 63B14	264	127	95
With brake motor 63B14	291	130	95



Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	100	200	300	400	500	600	700	800

Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers



LINEAR MOTION

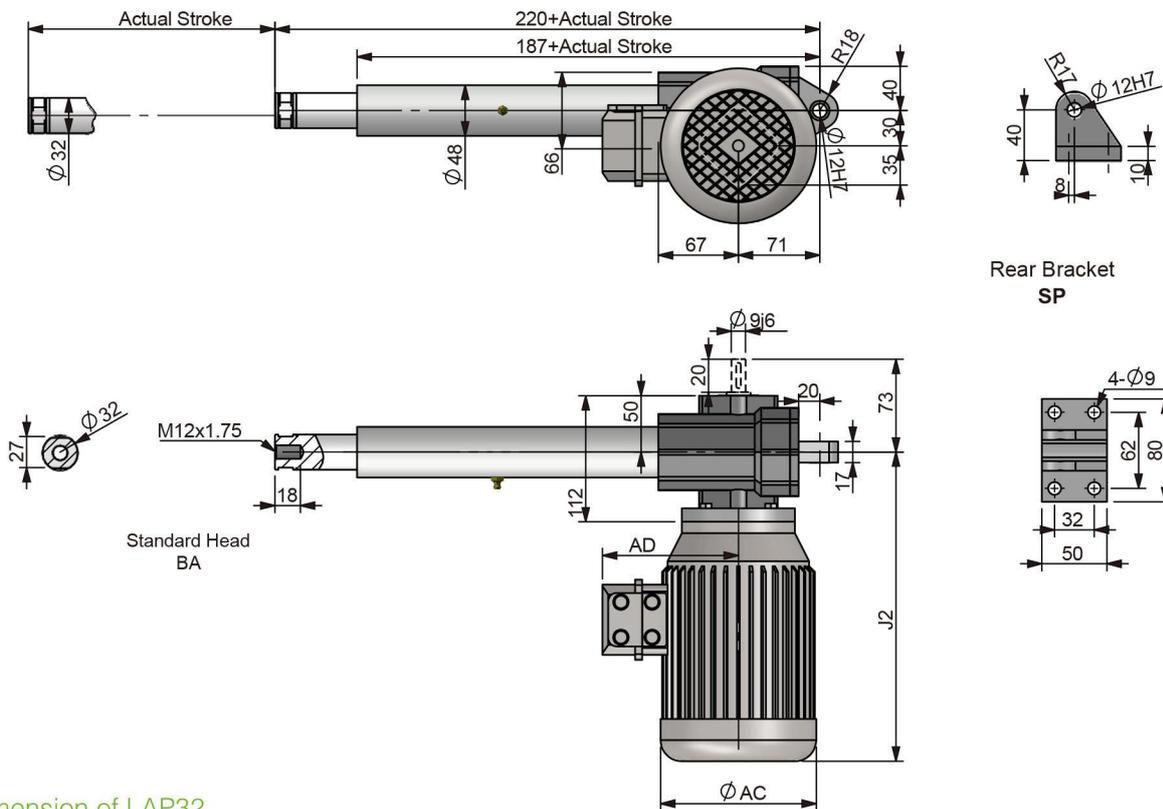
Overall Dimension of LAP Series Linear Actuator

Dimension of LAP32

Without limit switches

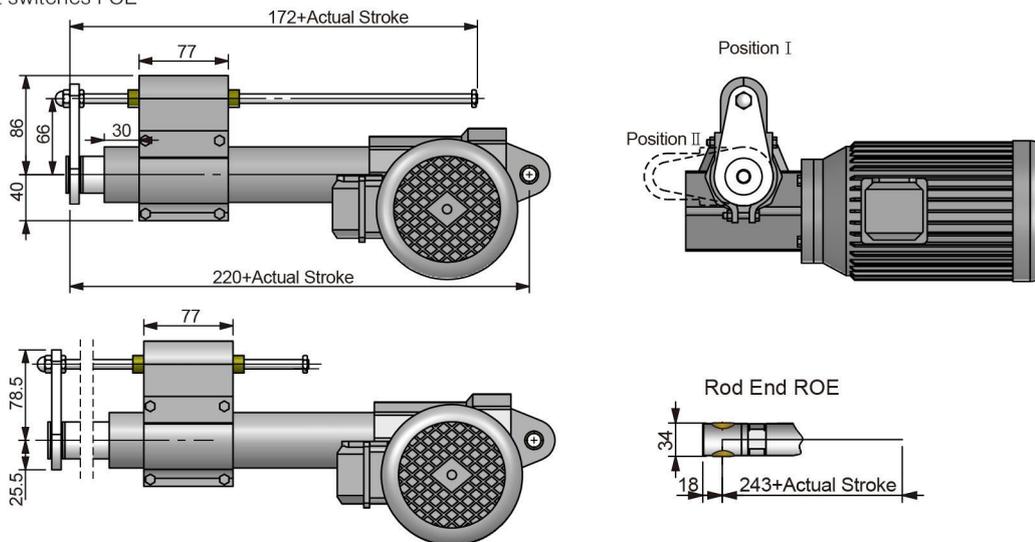
LAP

- LAP22
- LAP25
- LAP28
- LAP32
- LAP35
- LAP40
- LAP56
- LAP63
- LAP80
- LAP120
- LAP200
- LAP300



Dimension of LAP32

With external limit switches FCE

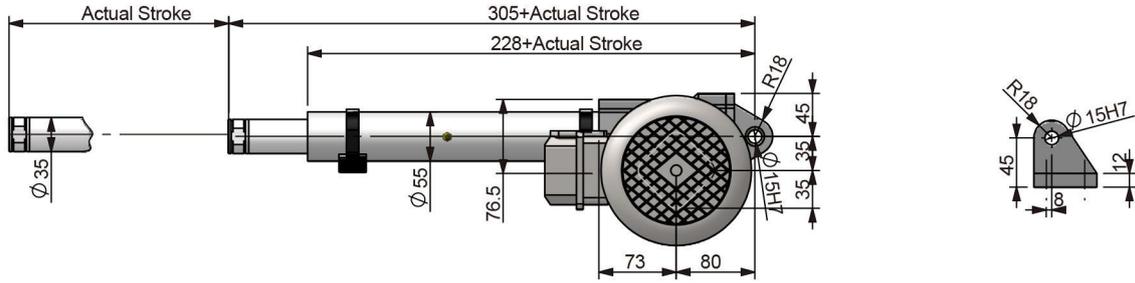


Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	130	230	330	430	530	630	730	830

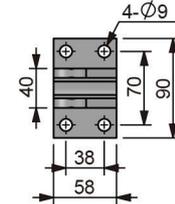
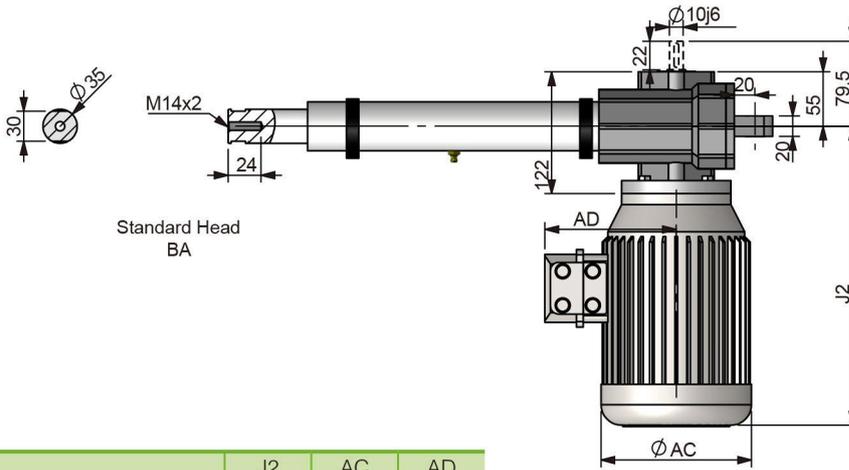
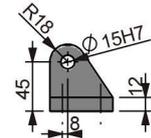
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LAP35

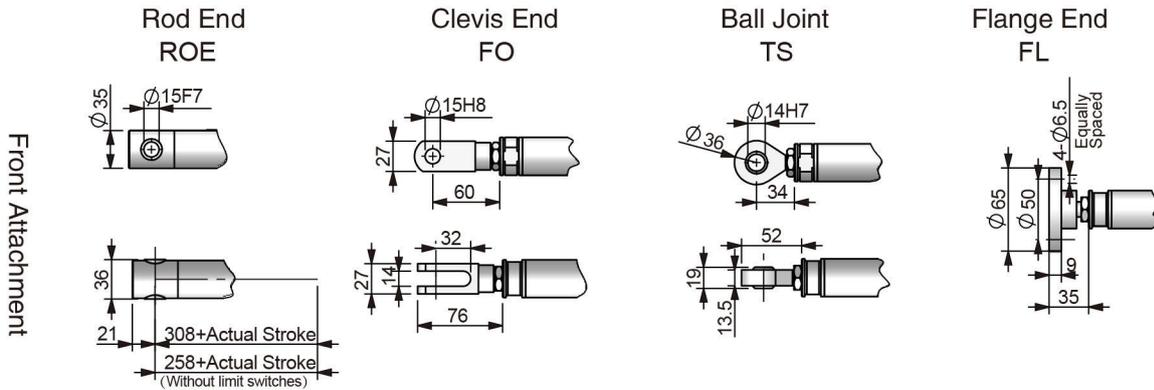
With magnetic reed switches FCM



Rear Bracket
SP



	J2	AC	AD
With standard motor 63B14	269	127	95
With brake motor 63B14	296	130	95



Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	100	200	300	400	500	600	700	800

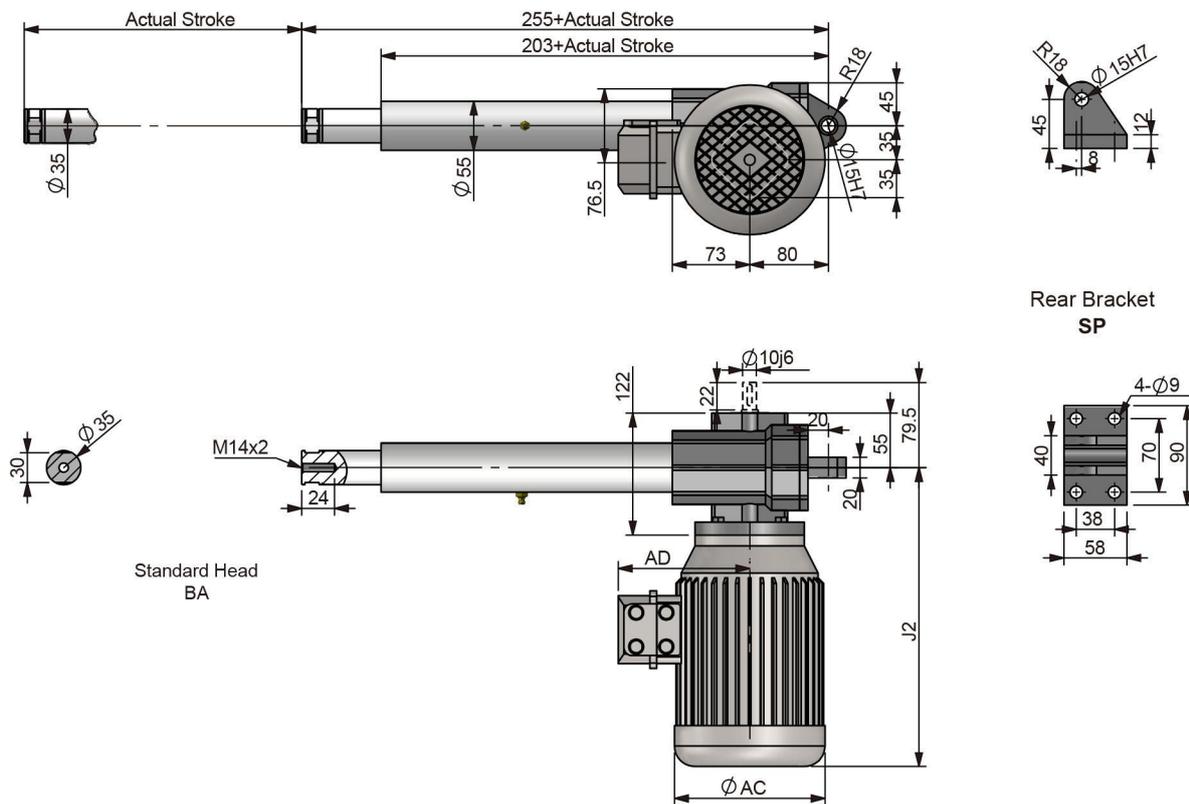
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
If the stroke exceeds 1500mm, please consult with Lude Transmission engineers



Overall Dimension of LAP Series Linear Actuator

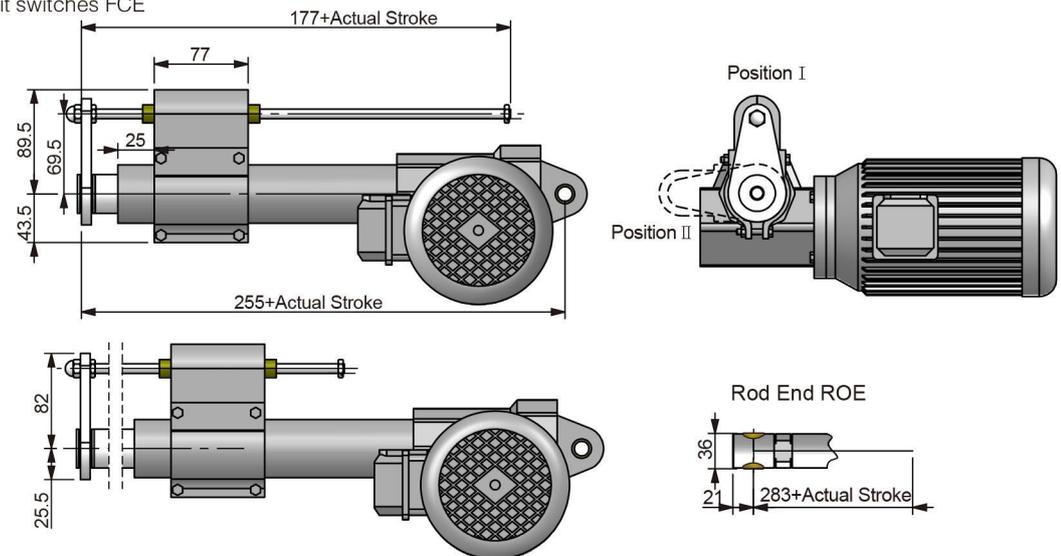
Dimension of LAP35

Without limit switches



Dimension of LAP35

With external limit switches FCE

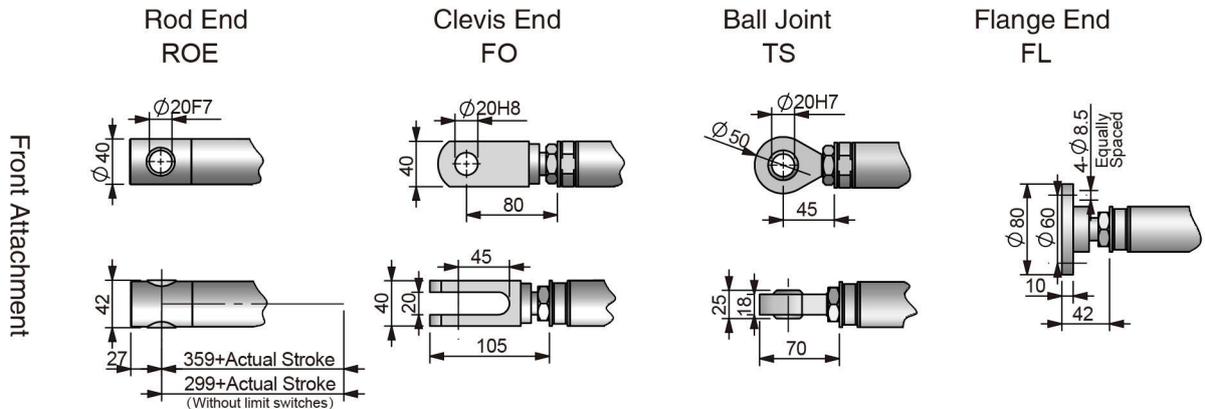
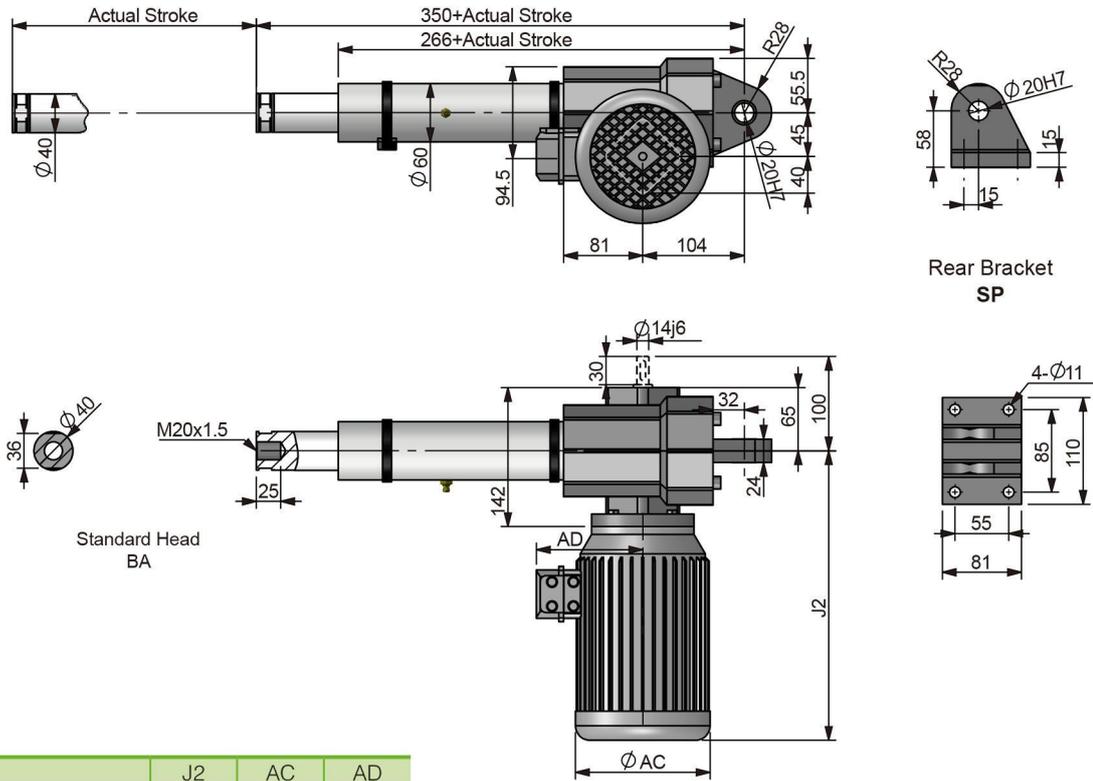


Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	125	225	325	425	525	625	725	825

Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LAP40

With magnetic reed switches FCM



Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	100	200	300	400	500	600	700	800

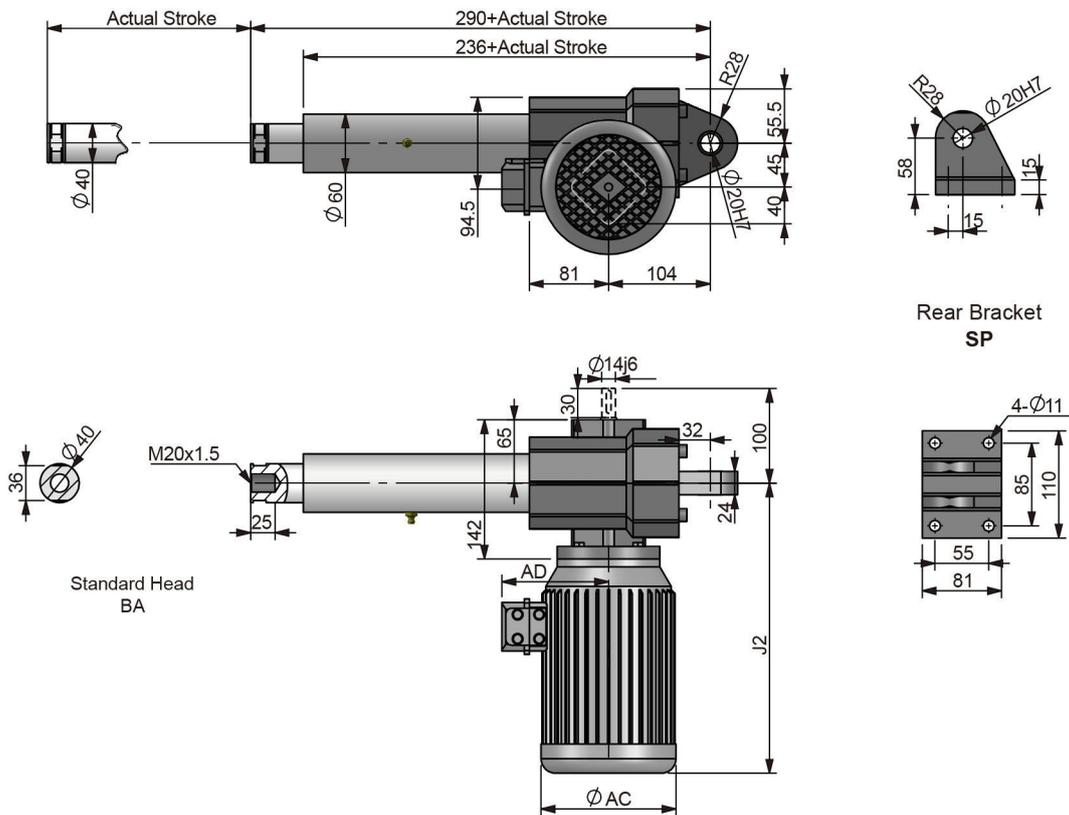
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers



Overall Dimension of LAP Series Linear Actuator

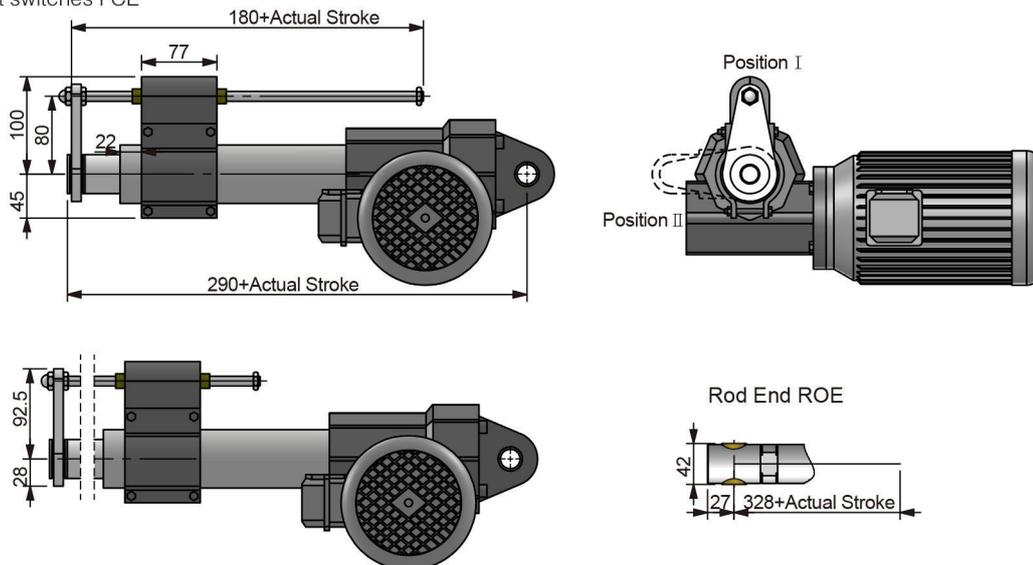
Dimension of LAP40

Without limit switches



Dimension of LAP40

With external limit switches FCE

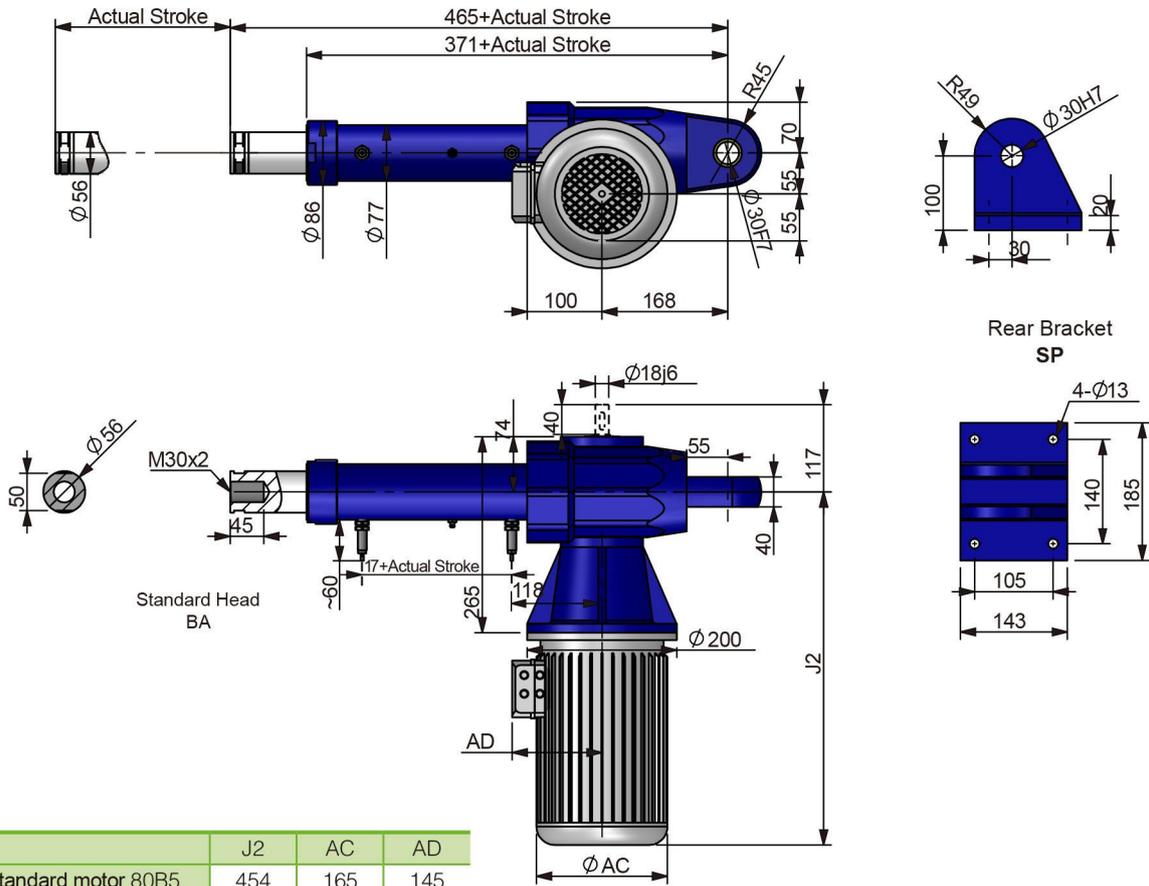


Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	130	230	330	430	530	630	730	830

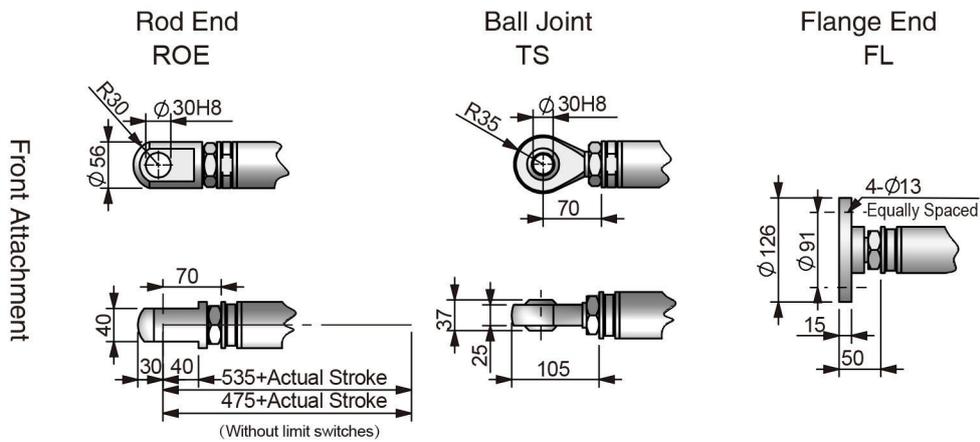
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LAP56

With Inductive Proximity switches FCP



	J2	AC	AD
With standard motor 80B5	454	165	145
With standard motor 90B5	524	180	165
With brake motor 80B5	489	165	145
With brake motor 90B5	523	1180	165



Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	100	200	300	400	500	600	700	800

Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers



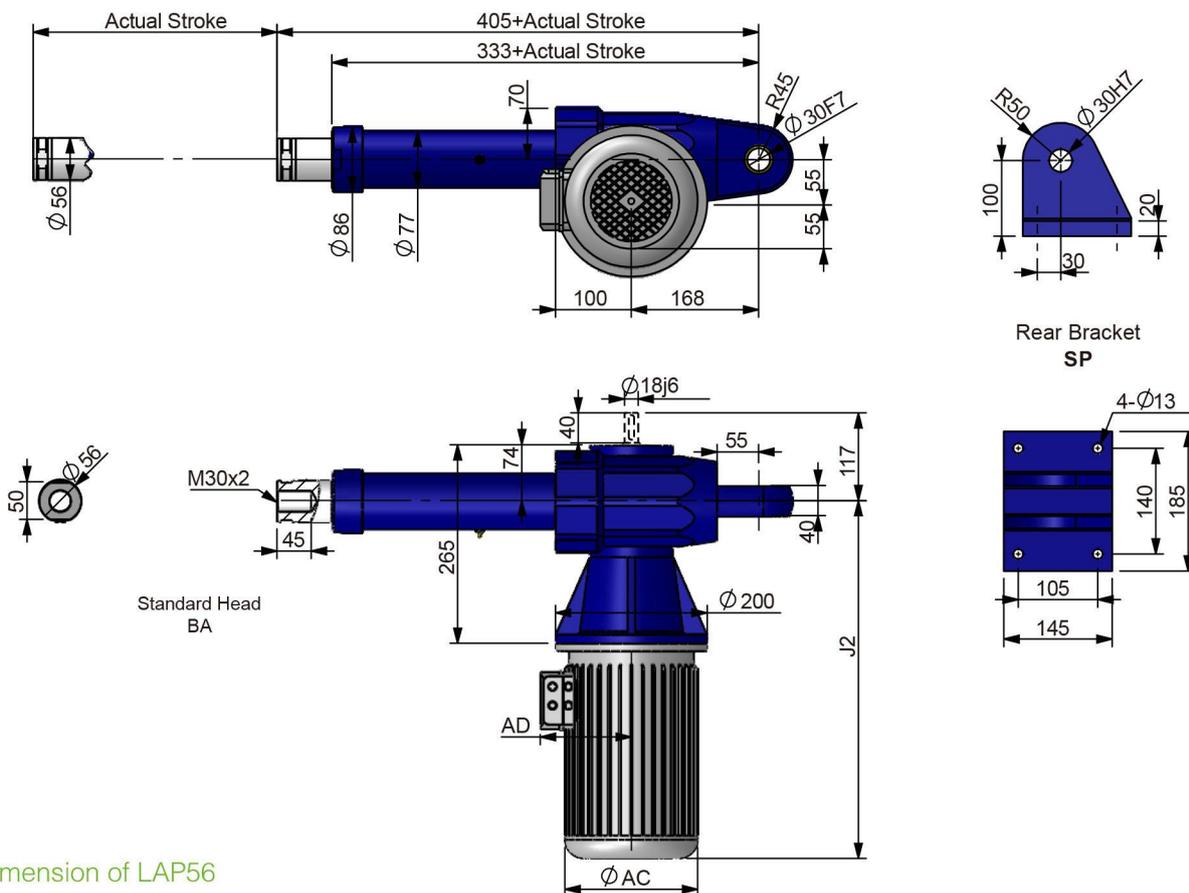
Overall Dimension of LAP Series Linear Actuator

LAP

- LAP22
- LAP25
- LAP28
- LAP32
- LAP35
- LAP40
- LAP56
- LAP63
- LAP80
- LAP120
- LAP200
- LAP300

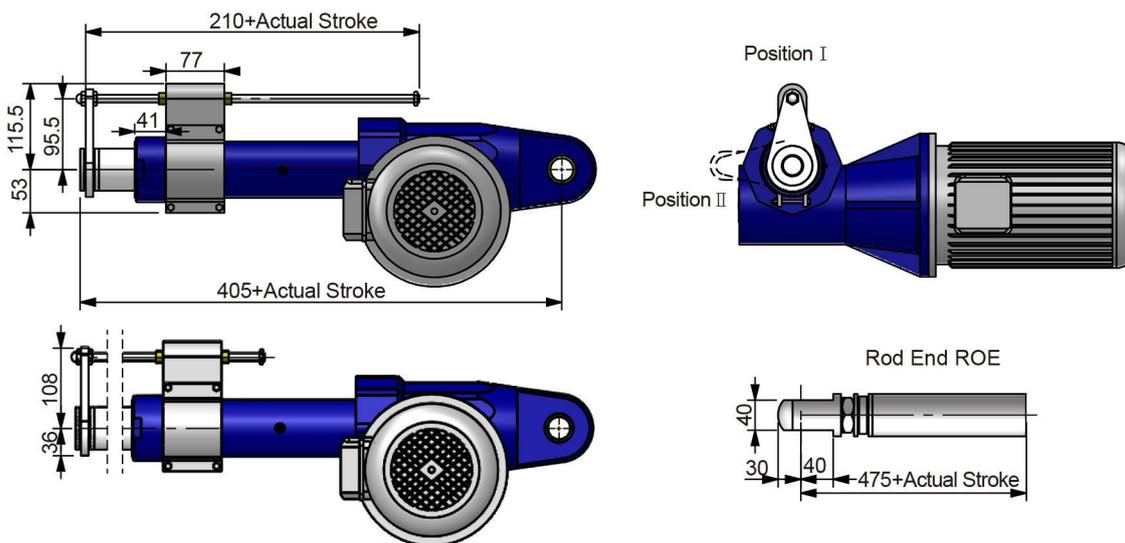
Dimension of LAP56

Without limit switches



Dimension of LAP56

With external limit switches FCE

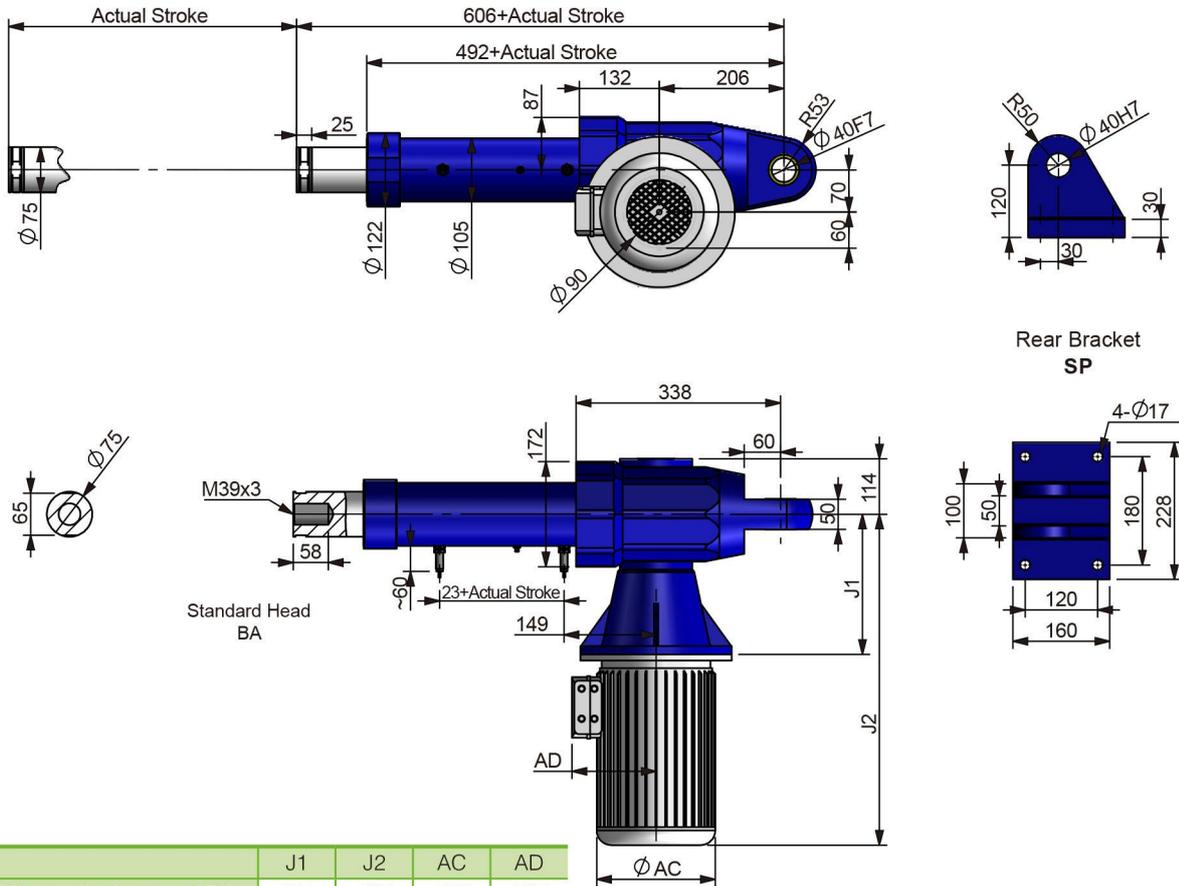


Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	130	230	330	430	530	630	730	830

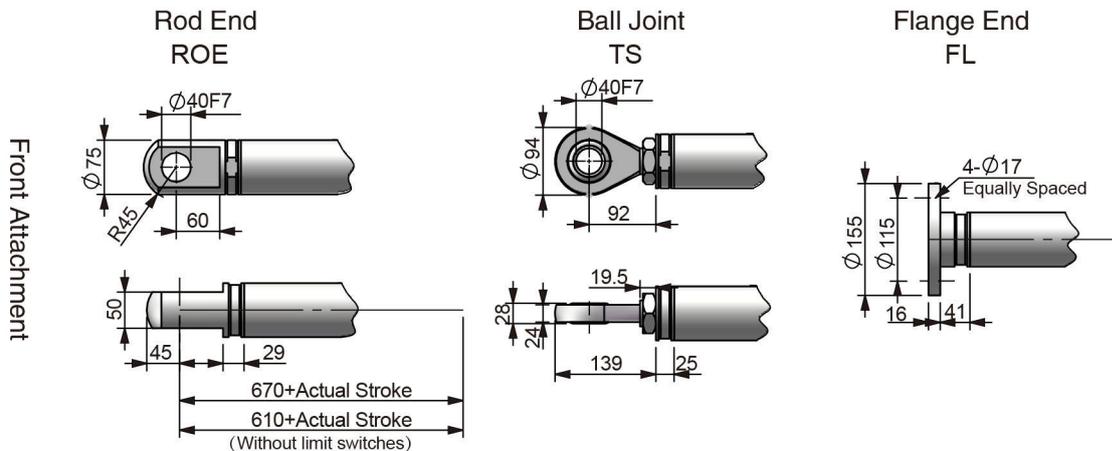
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LAP63

With Inductive Proximity switches FCP



	J1	J2	AC	AD
With standard motor 90B5	224	568	180	165
With standard motor 100B5	235	618	205	175
With brake motor 90B5	224	643	180	165
With brake motor 100B5	235	638	205	175



Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	100	200	300	400	500	600	700	800

Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm

If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

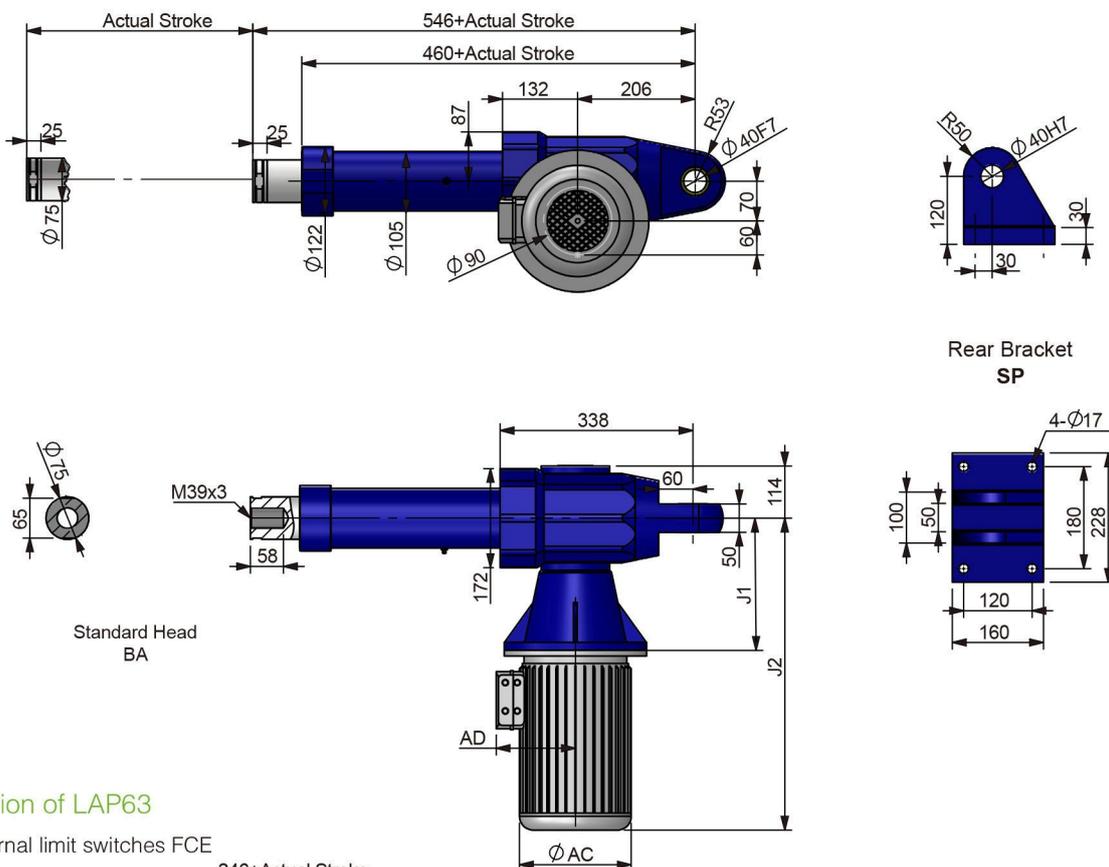


LINEAR MOTION

Overall Dimension of LAP Series Linear Actuator

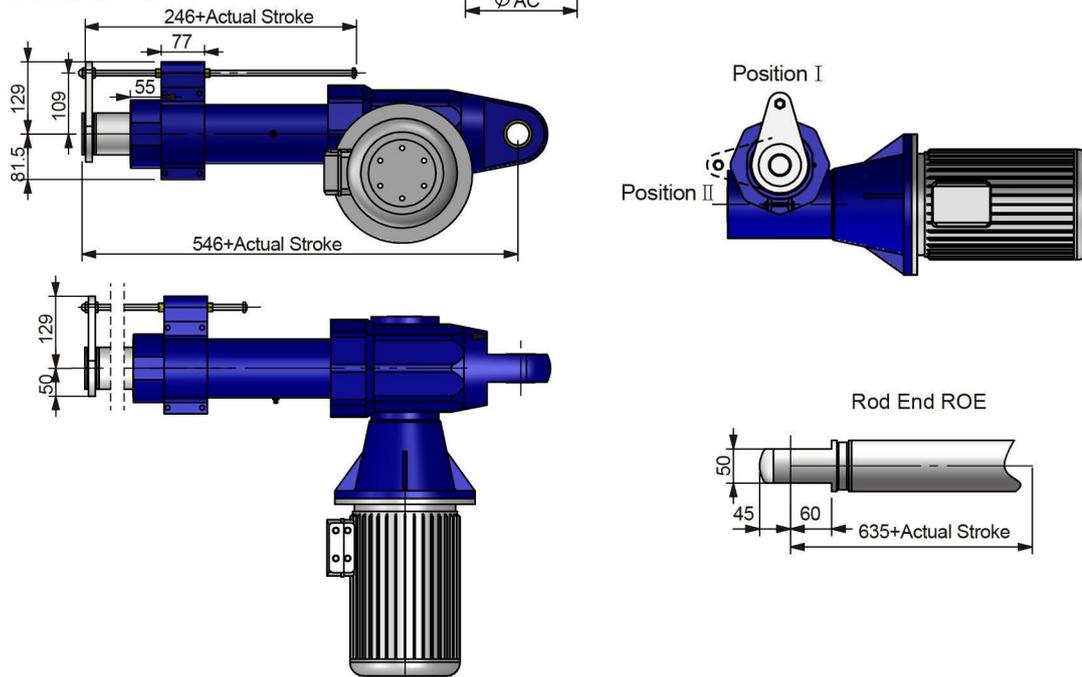
Dimension of LAP63

Without limit switches



Dimension of LAP63

With external limit switches FCE

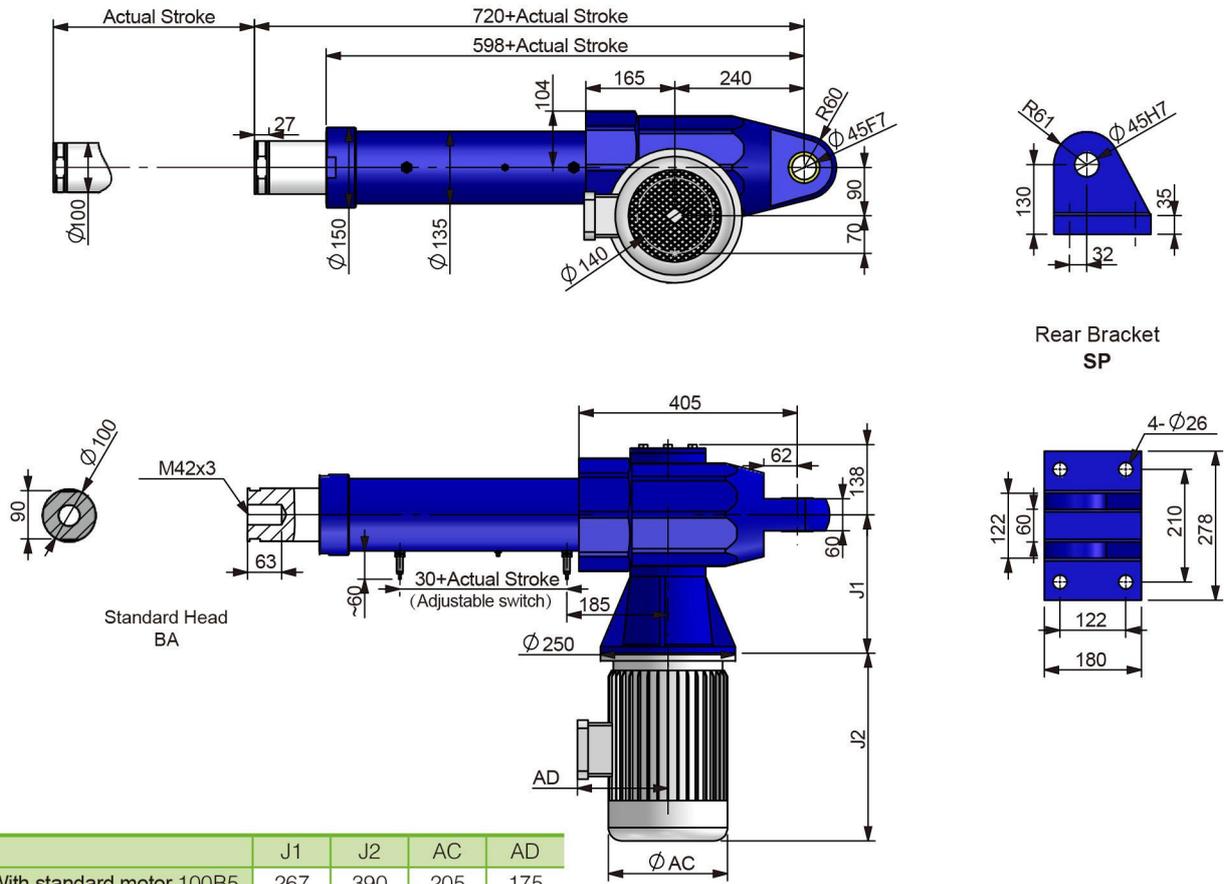


Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	130	230	330	430	530	630	730	830

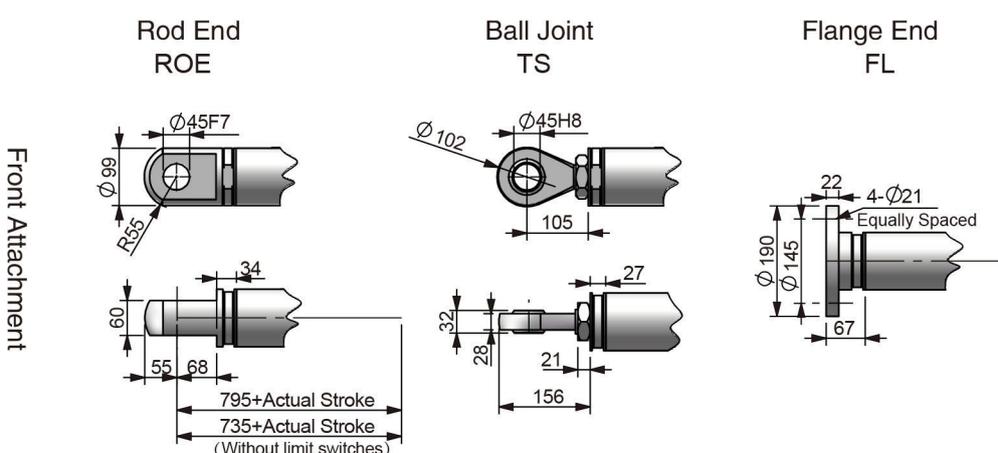
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LAP80

With Inductive Proximity switches FCP



	J1	J2	AC	AD
With standard motor 100B5	267	390	205	175
With standard motor 112B5	267	395	225	190
With brake motor 100B5	267	465	205	175
With brake motor 112B5	267	485	225	190



Stroke Code	100	200	300	400	500	600	800	1000
Actual Stroke	100	200	300	400	500	600	800	1000

Note: If the stroke is between 1000mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers



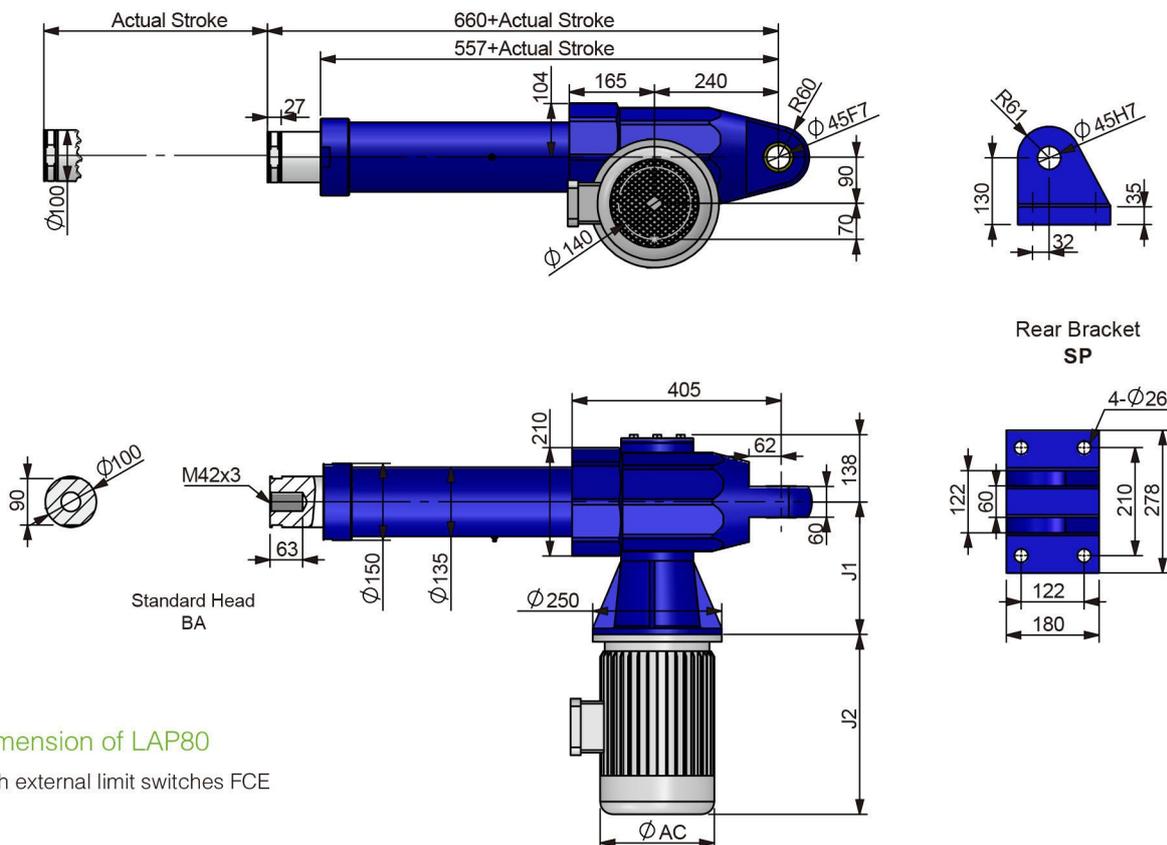
Overall Dimension of LAP Series Linear Actuator

LAP

- LAP22
- LAP25
- LAP28
- LAP32
- LAP35
- LAP40
- LAP56
- LAP63
- LAP80
- LAP120
- LAP200
- LAP300

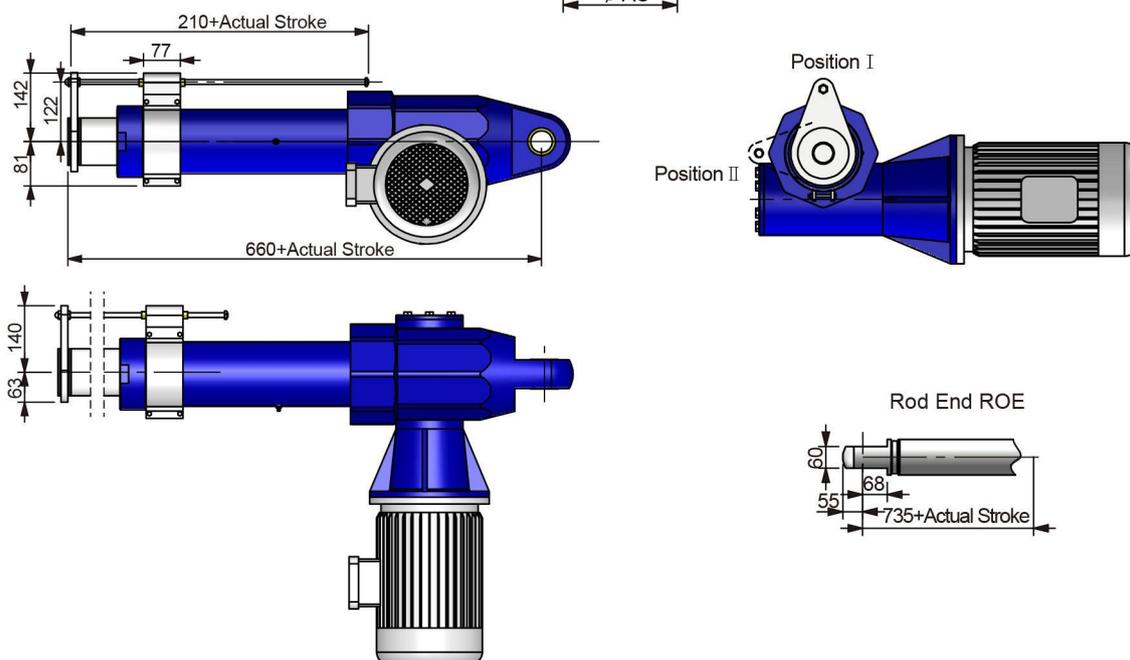
Dimension of LAP80

Without limit switches



Dimension of LAP80

With external limit switches FCE

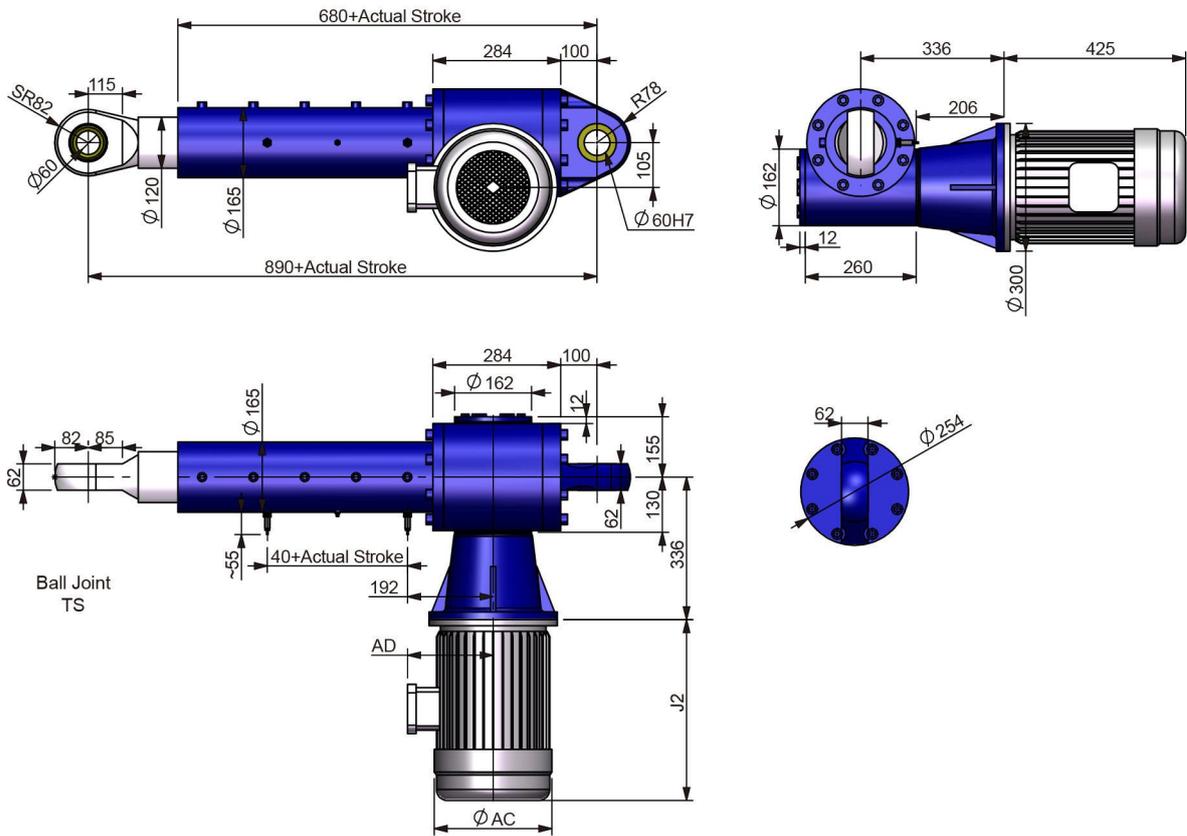


Stroke Code	100	200	300	400	500	600	800	1000
Actual Stroke	130	230	330	430	530	630	830	1030

Note: If the stroke is between 1000mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LAP120

With Inductive Proximity switches FCP



	J2	AC	AD
With standard motor 132B5	430	270	220
With brake motor 132B5	525	275	220

Stroke Code	200	400	500	600	800	1000	1200	1500
Actual Stroke	200	400	500	600	800	1000	1200	1500

Note: If the stroke is between 1200mm-1500mm, the length of external tube & push rod will be increased by 250mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers
 Anti-rotating device AR is a standard configuration.



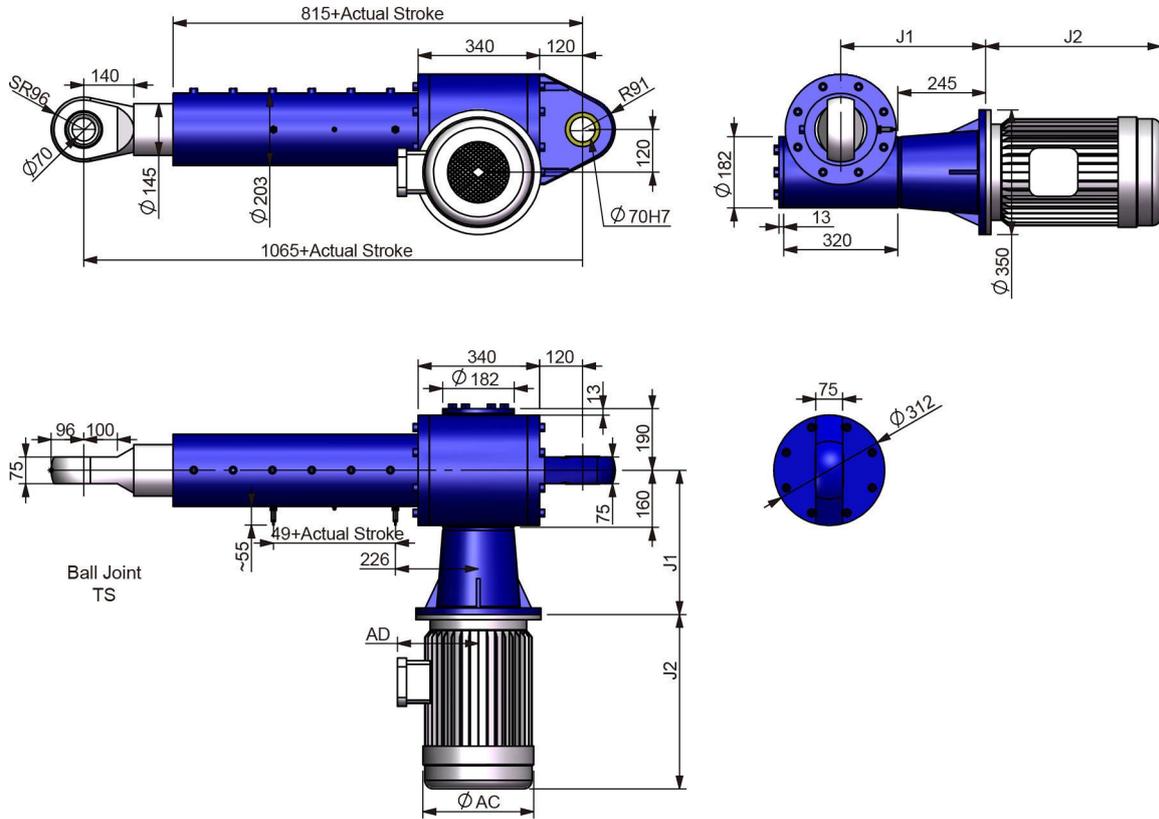
Overall Dimension of LAP Series Linear Actuator

Dimension of LAP200

With Inductive Proximity switches FCP

LAP

- LAP22
- LAP25
- LAP28
- LAP32
- LAP35
- LAP40
- LAP56
- LAP63
- LAP80
- LAP120
- LAP200
- LAP300



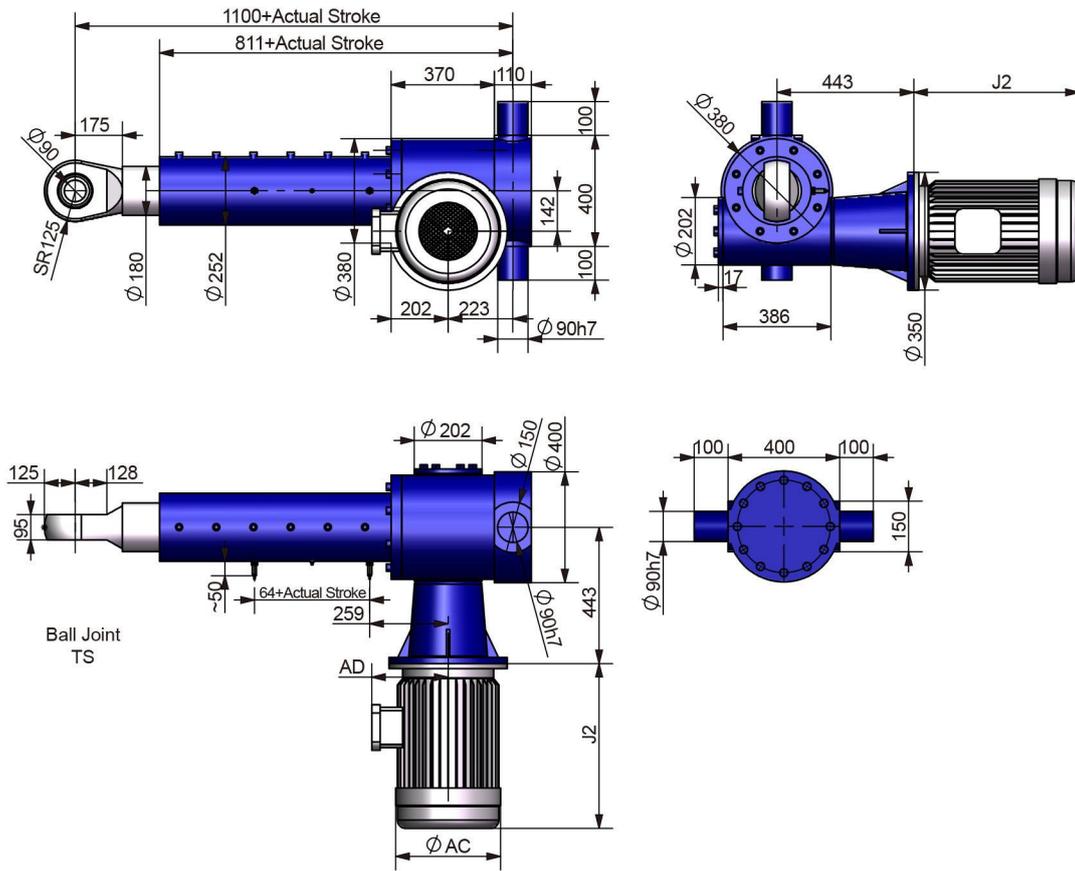
	J1	J2	AC	AD
With standard motor 132B5	380	430	270	220
With standard motor 160B5	410	575	320	260
With brake motor 132B5	380	525	275	220
With brake motor 160B5	410	640	320	260

Stroke Code	200	400	500	600	800	1000	1500	2000
Actual Stroke	200	400	500	600	800	1000	1500	2000

Note: If the stroke is between 1500mm-2000mm, the length of external tube & push rod will be increased by 300mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers
 Anti-rotating device AR is a standard configuration.

Dimension of LAP300

With Inductive Proximity switches FCP



	J2	AC	AD
With standard motor 132B5	430	270	220
With standard motor 160B5	575	320	260
With brake motor 132B5	525	275	220
With brake motor 160B5	640	320	260

Stroke Code	200	400	500	600	800	1000	1200	1500	2000
Actual Stroke	200	400	500	600	800	1000	1200	1500	2000

Note: If the stroke is between 1500mm-2000mm, the length of external tube & push rod will be increased by 300mm

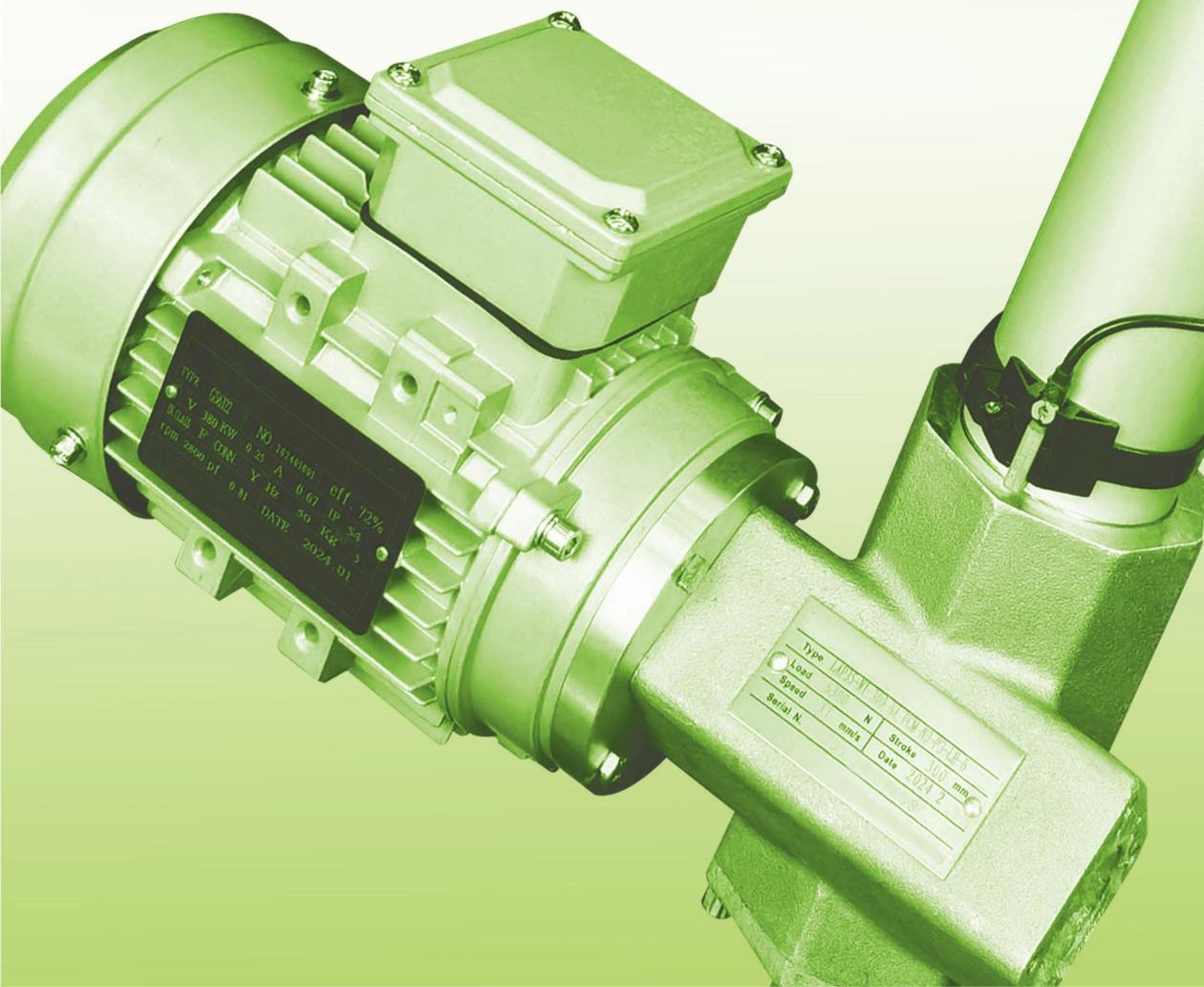
If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Anti-rotating device AR is a standard configuration.

LBP Series Linear Actuator



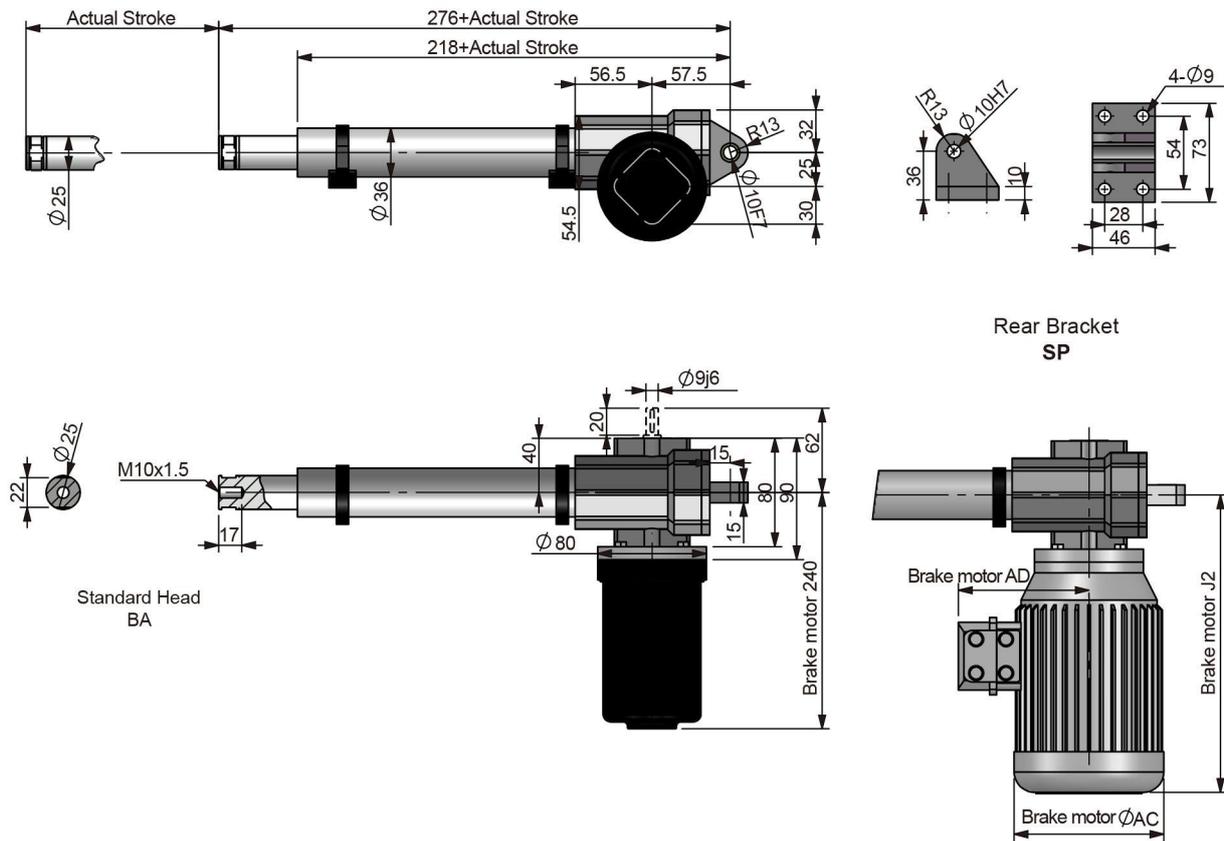
LINEAR MOTION



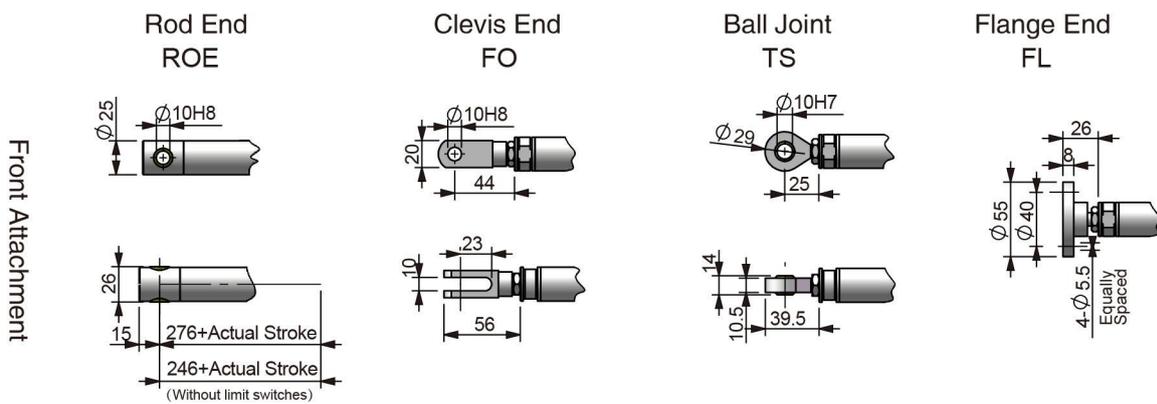
Overall Dimension of LBP Series Linear Actuator

Dimension of LBP25

With magnetic reed switches FCM



	J2	AC	AD
With brake motor 63B14	279	130	95



Stroke Code	100	200	300	400	500
Actual Stroke	100	200	300	400	500



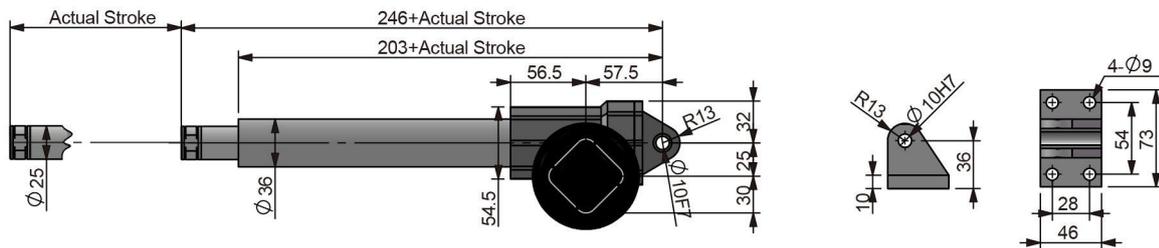
Overall Dimension of LBP Series Linear Actuator

LBP

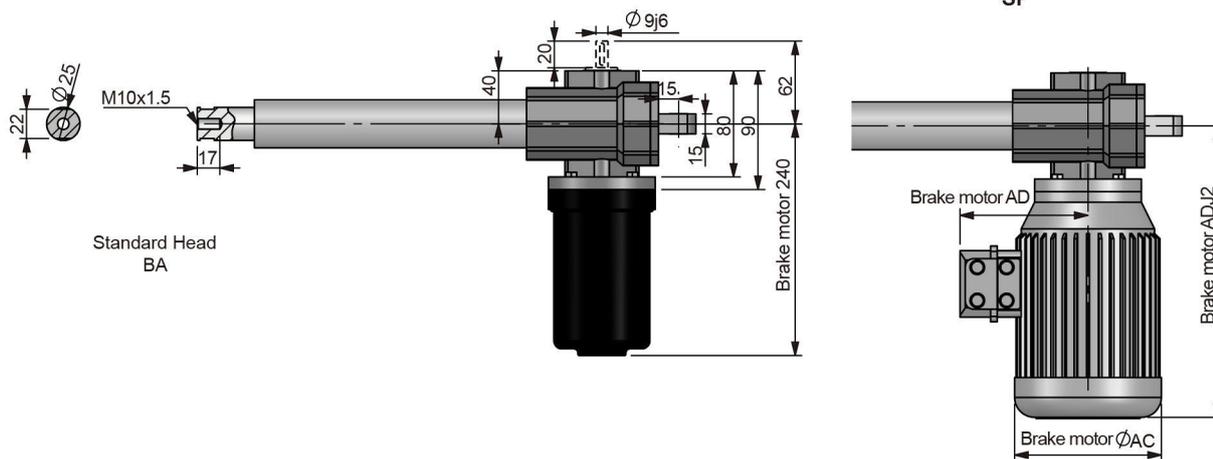
- LBP25
- LBP32
- LBP35
- LBP40
- LBP56
- LBP120
- LBP200
- LBP300

Dimension of LBP25

Without limit switches

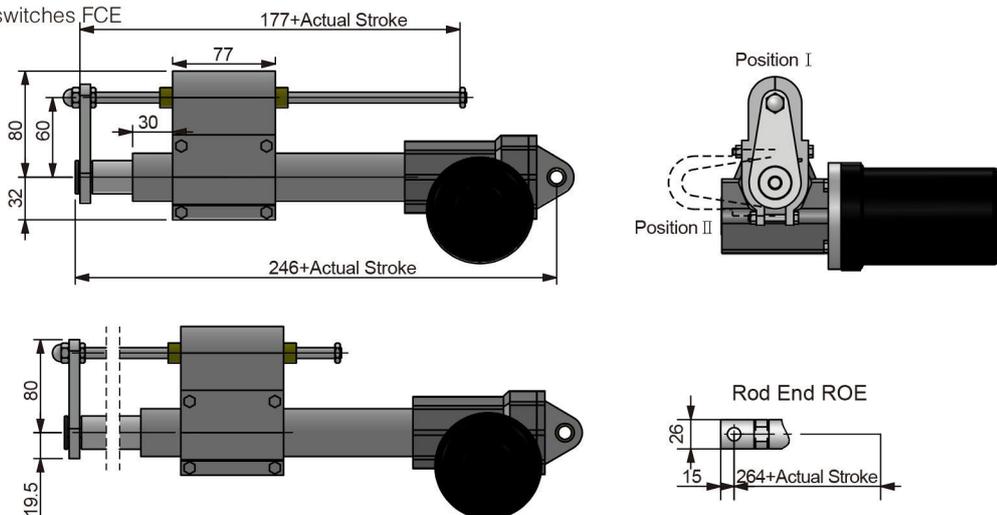


Rear Bracket
SP



Dimension of LBP25

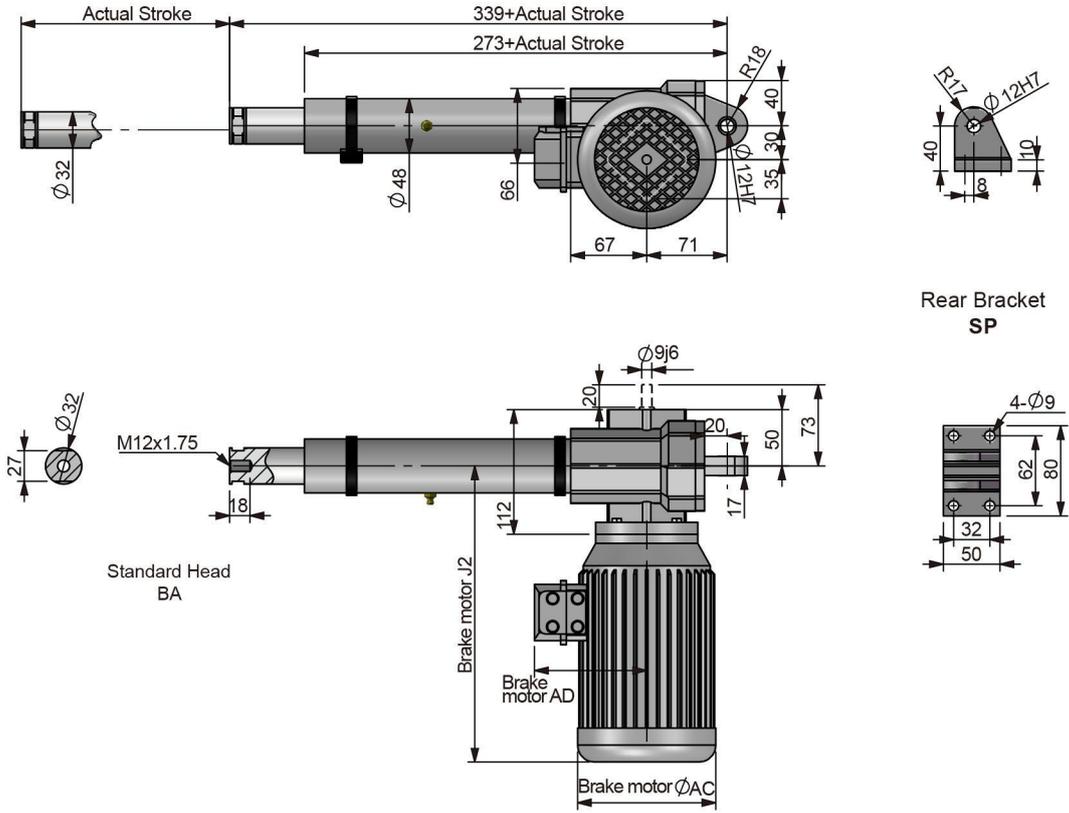
With external limit switches FCE



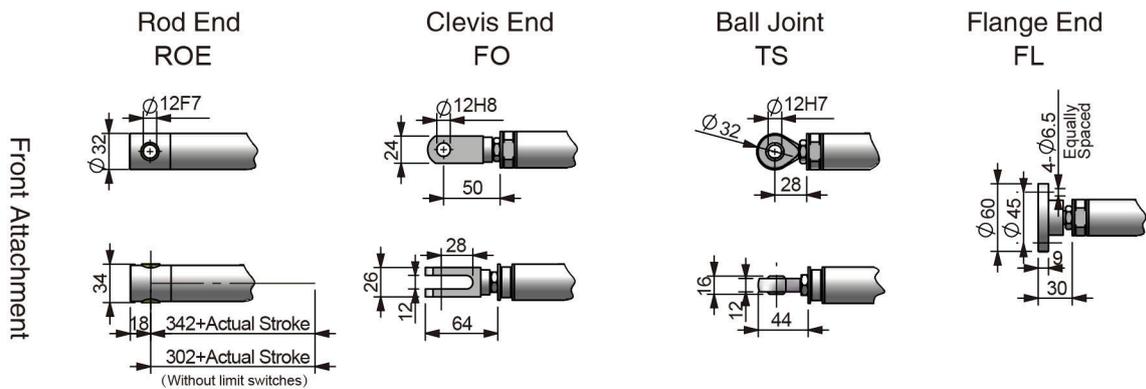
Stroke Code	100	200	300	400	500
Actual Stroke	115	215	315	415	515

Dimension of LBP32

With magnetic reed switches FCM



	J2	AC	AD
With brake motor 63B14	291	130	95



Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	100	200	300	400	500	600	700	800

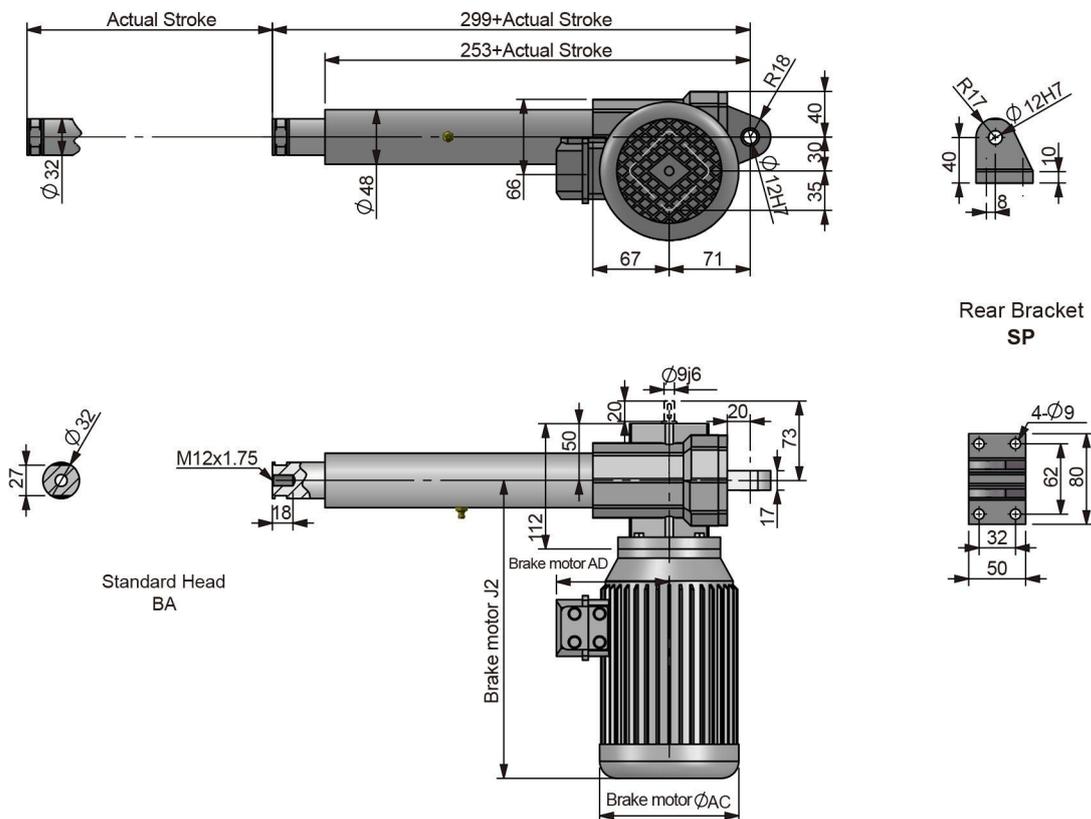
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers



Overall Dimension of LBP Series Linear Actuator

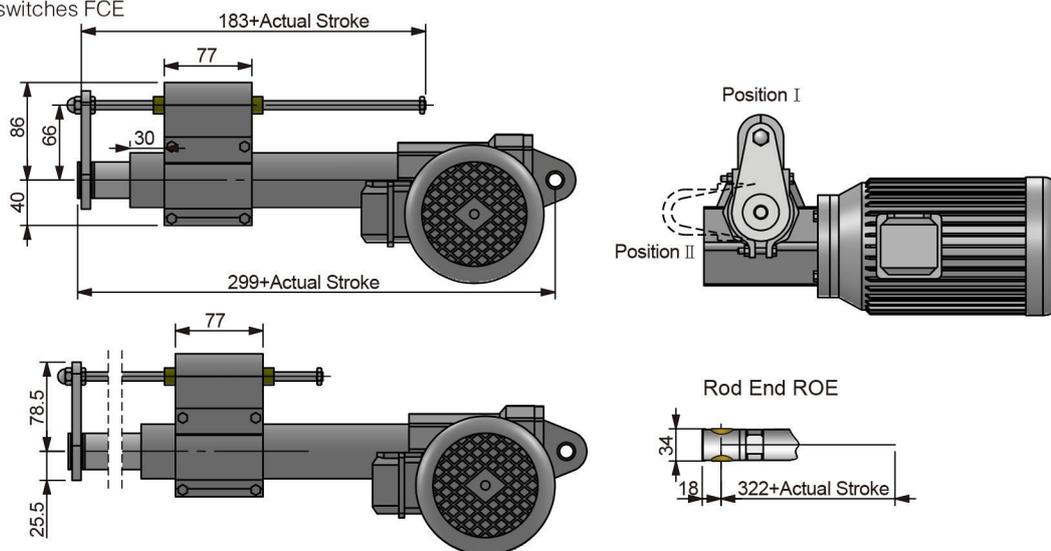
Dimension of LBP32

Without limit switches



Dimension of LBP32

With external limit switches FCE

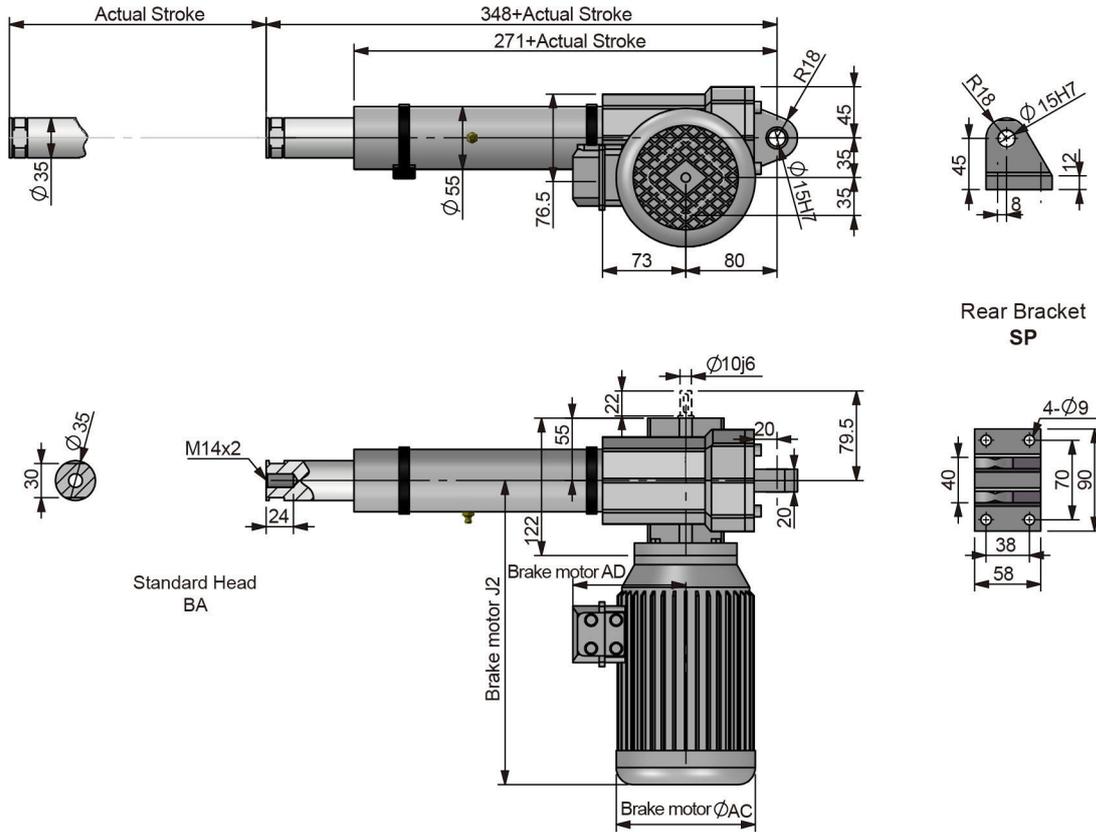


Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	120	220	320	420	520	620	720	820

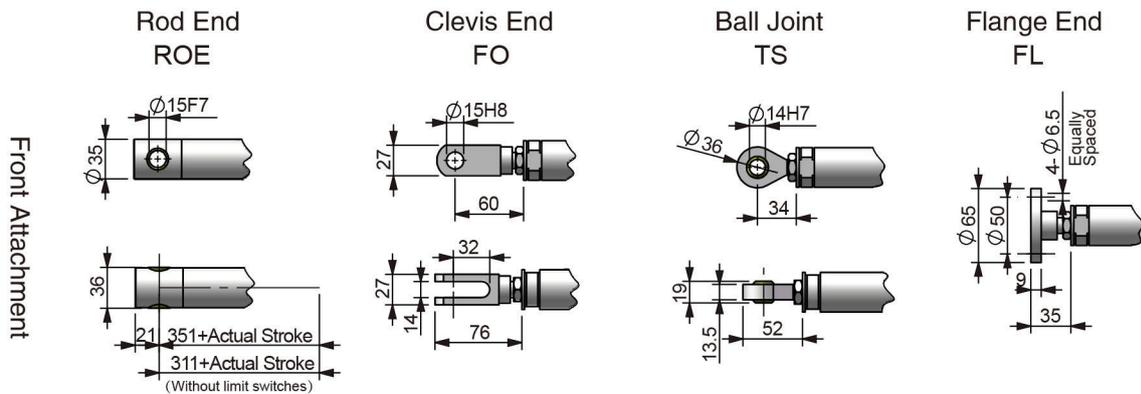
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LBP35

With magnetic reed switches FCM



	J2	AC	AD
With brake motor 63B14	296	130	95



Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	100	200	300	400	500	600	700	800

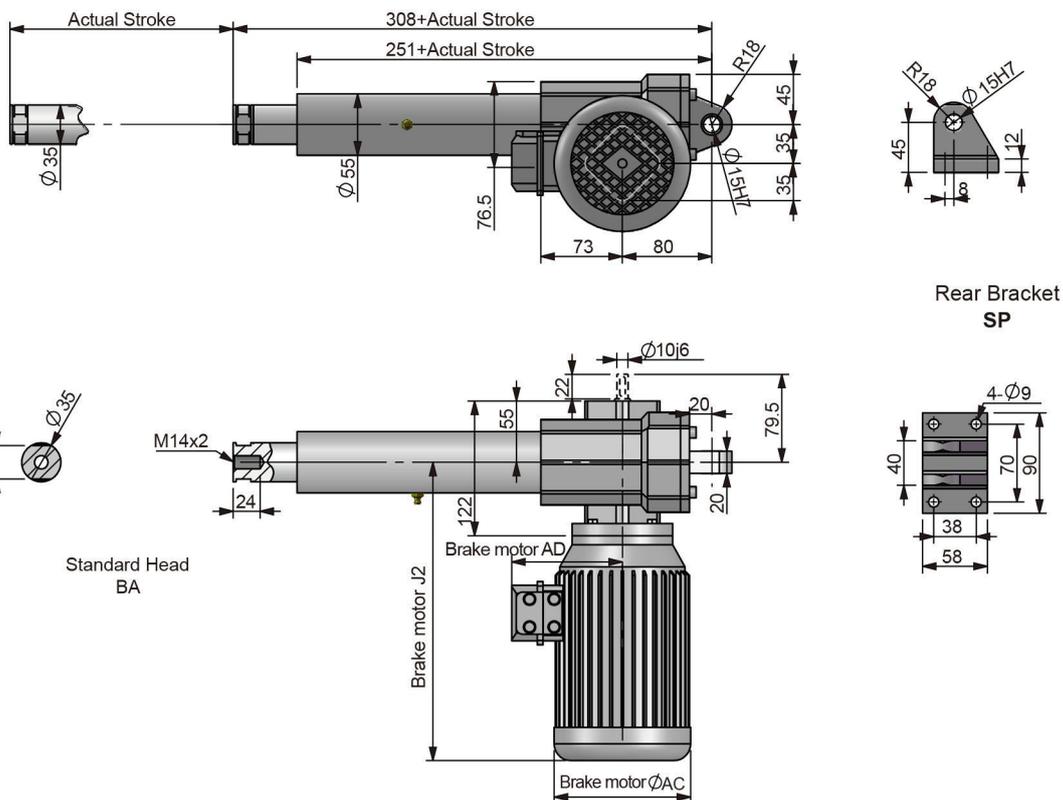
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers



Overall Dimension of LBP Series Linear Actuator

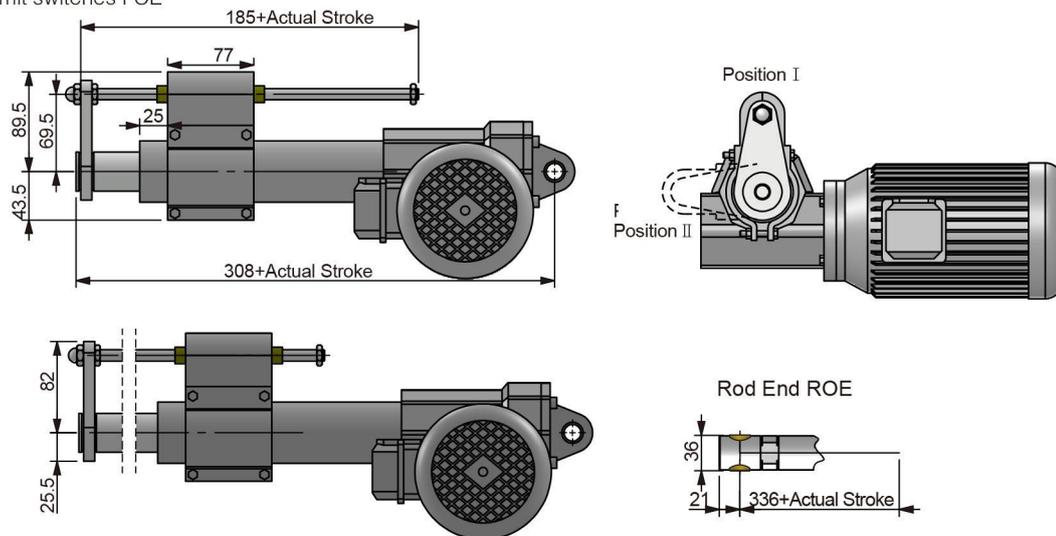
Dimension of LBP35

Without limit switches



Dimension of LBP35

With external limit switches FCE

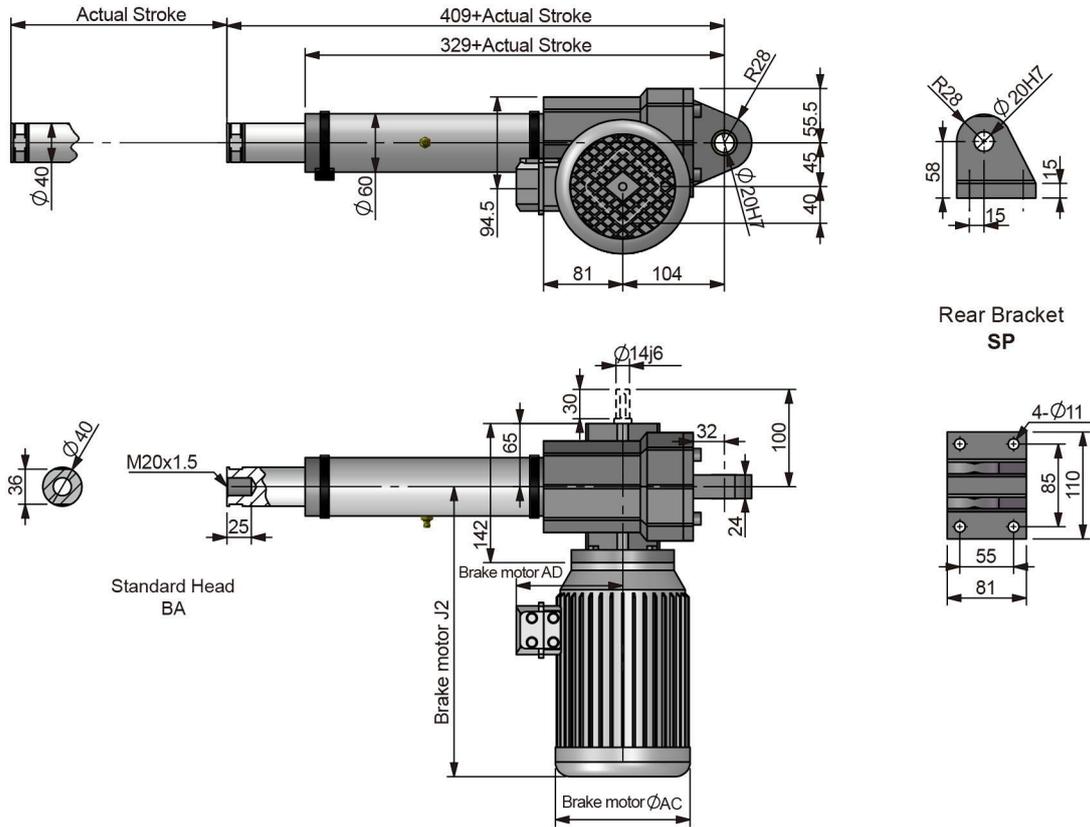


Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	120	220	320	420	520	620	720	820

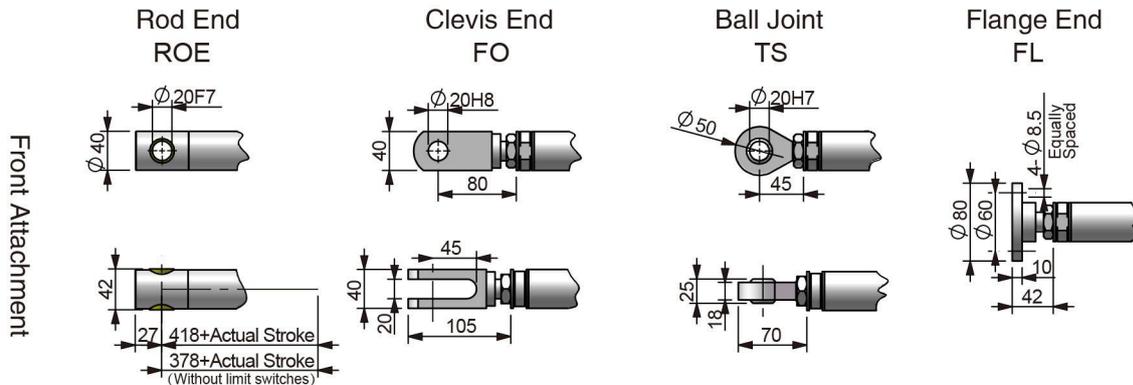
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LBP40

With magnetic reed switches FCM



	J2	AC	AD
With brake motor 71B14	338	145	105



Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	100	200	300	400	500	600	700	800

Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers



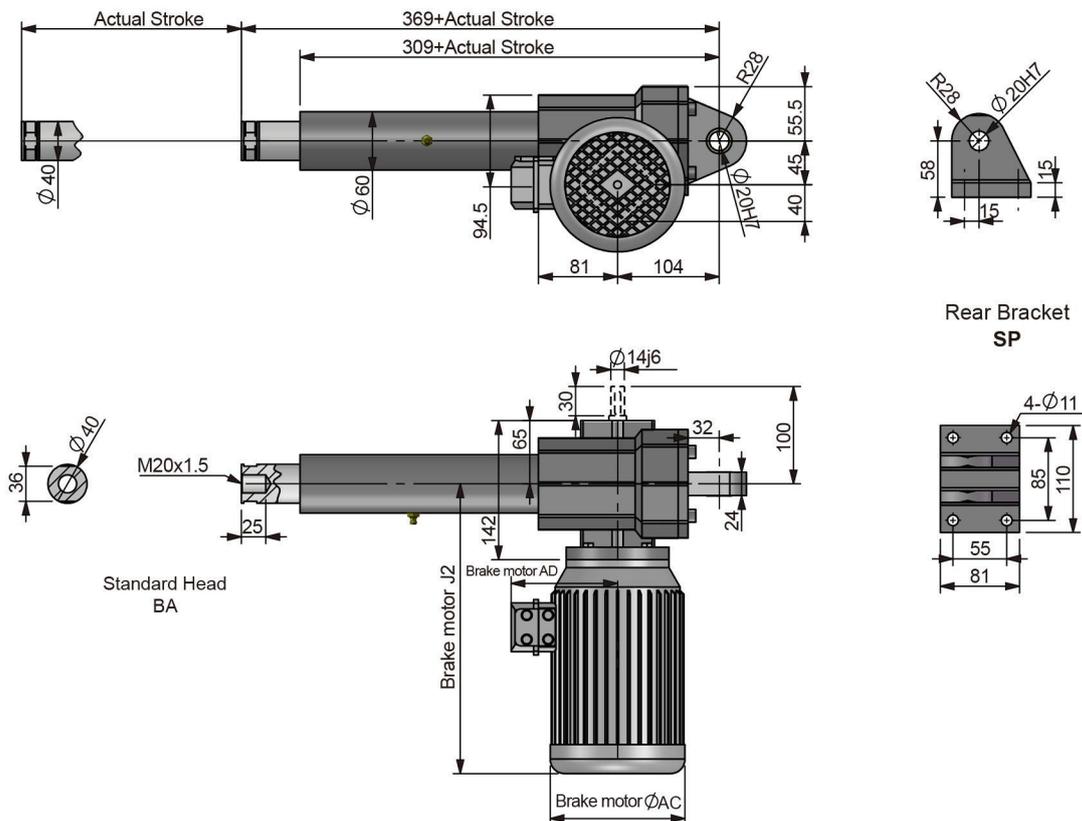
Overall Dimension of LBP Series Linear Actuator

LBP

- LBP25
- LBP32
- LBP35
- LBP40
- LBP56
- LBP120
- LBP200
- LBP300

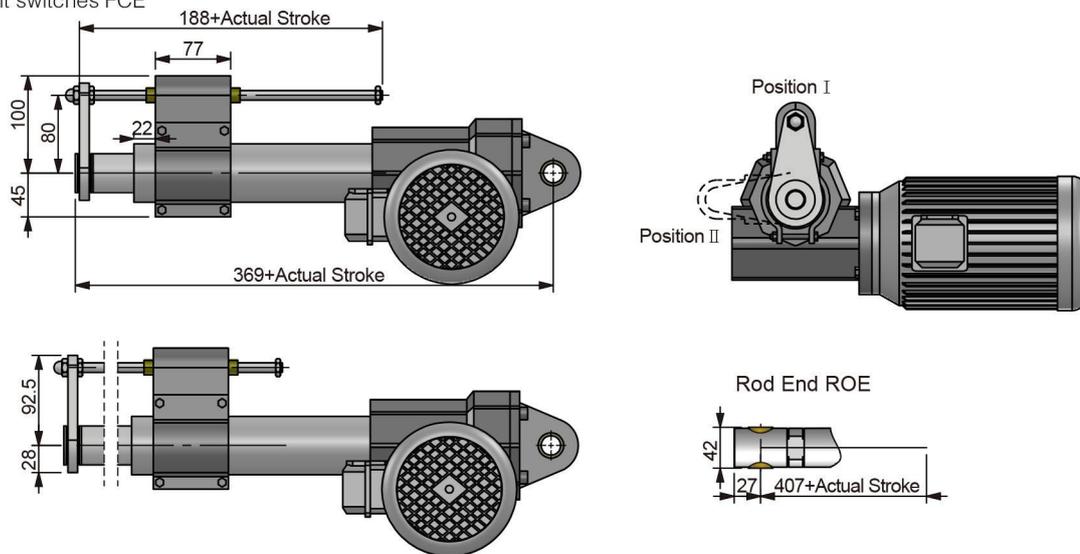
Dimension of LBP40

Without limit switches



Dimension of LBP40

With external limit switches FCE

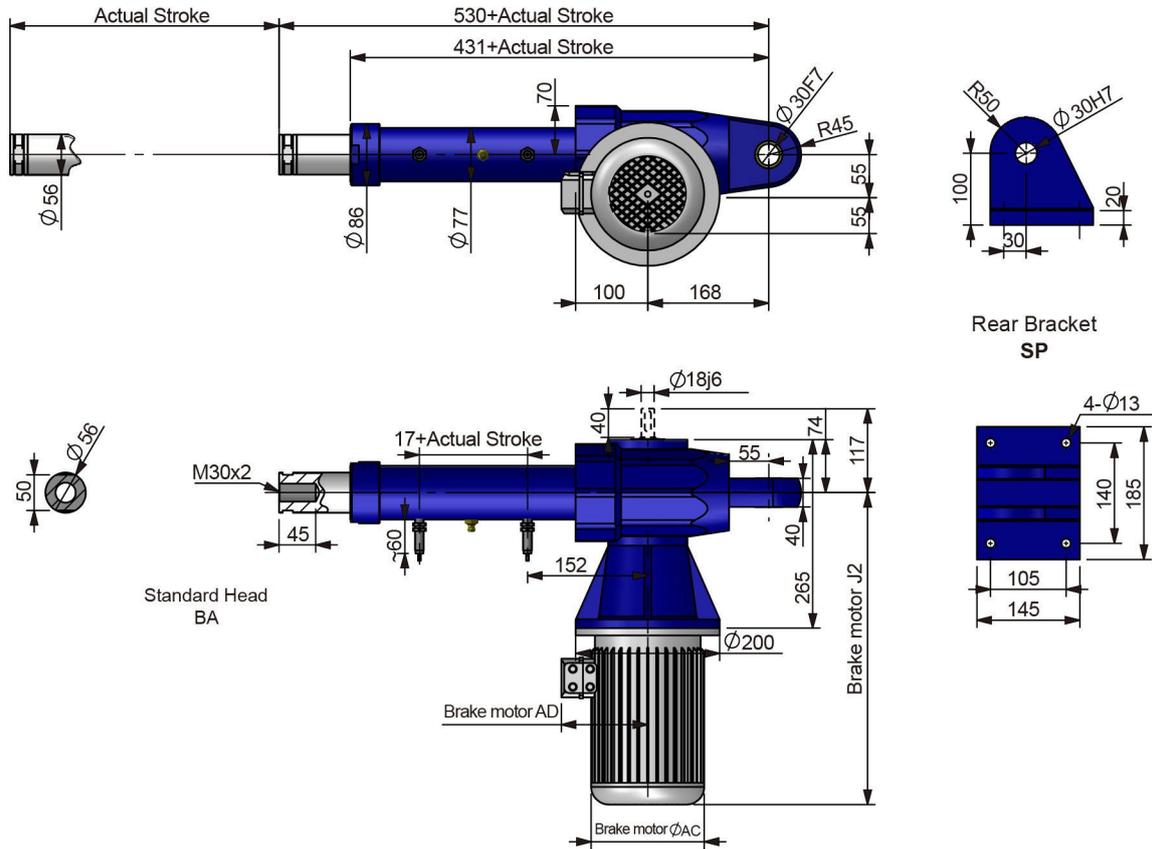


Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	120	220	320	420	520	620	720	820

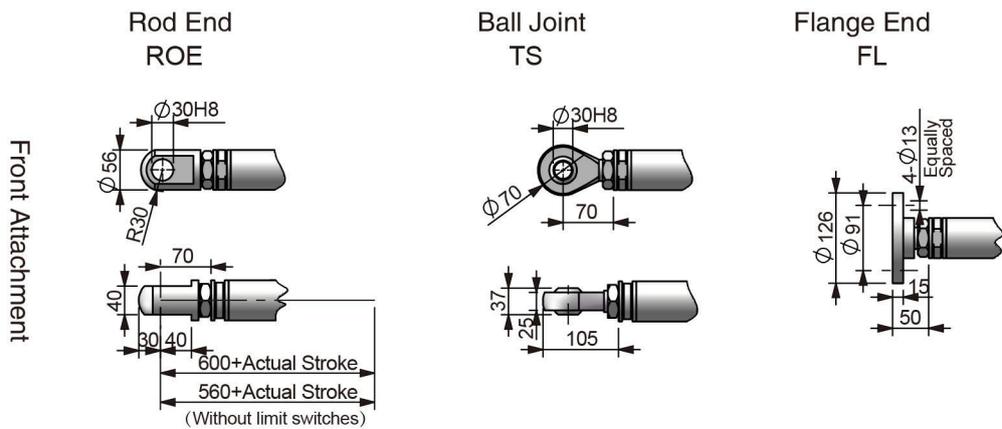
Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LBP56

With Inductive Proximity switches FCP



	J2	AC	AD
With brake motor 80B5	489	165	145
With brake motor 90B5	523	180	165



Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	100	200	300	400	500	600	700	800

Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm

If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

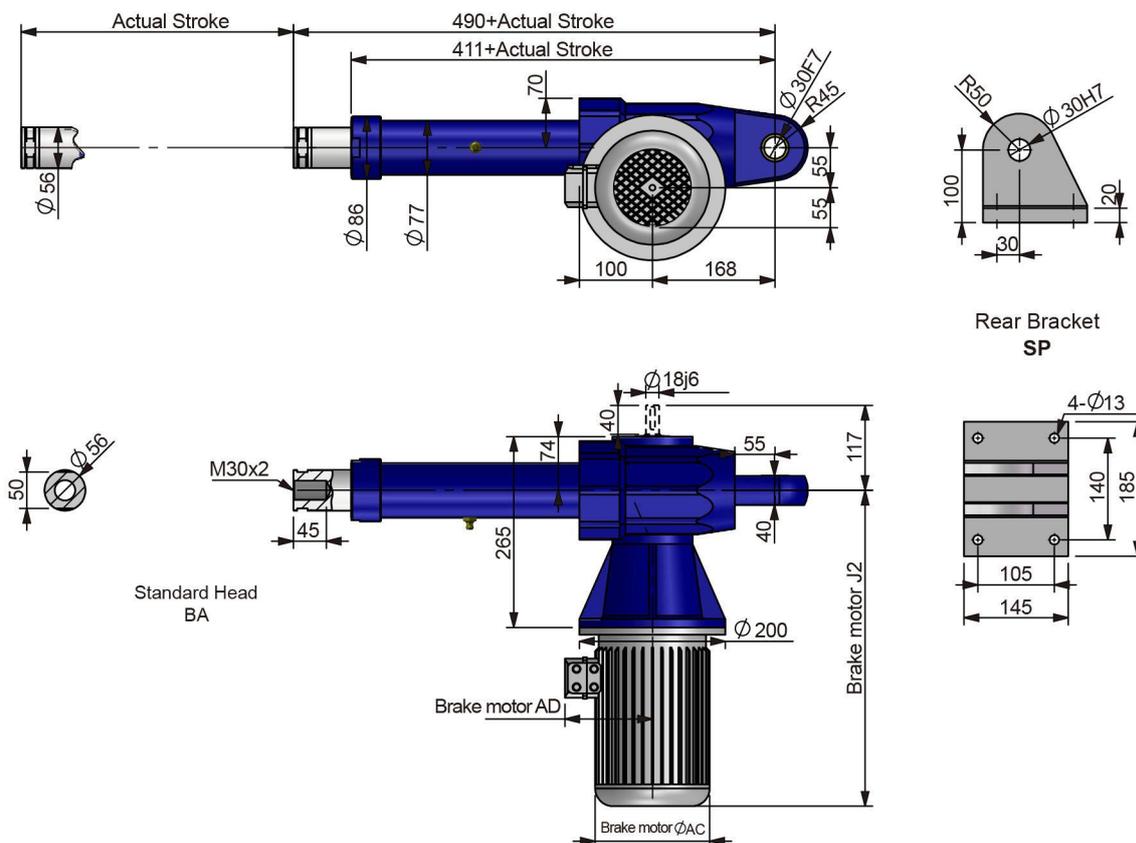


LINEAR MOTION

Overall Dimension of LBP Series Linear Actuator

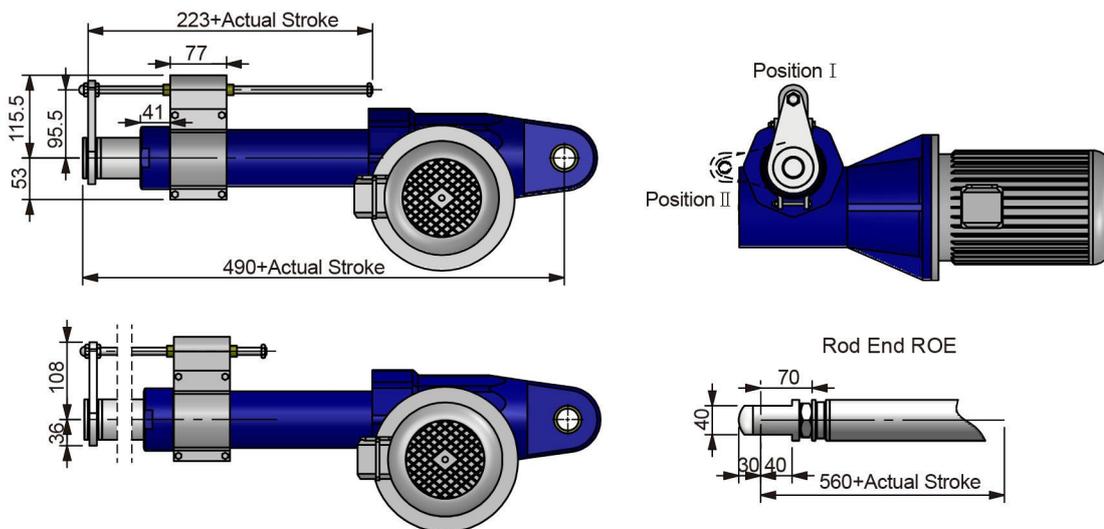
Dimension of LBP56

Without limit switches



Dimension of LBP56

With external limit switches FCE

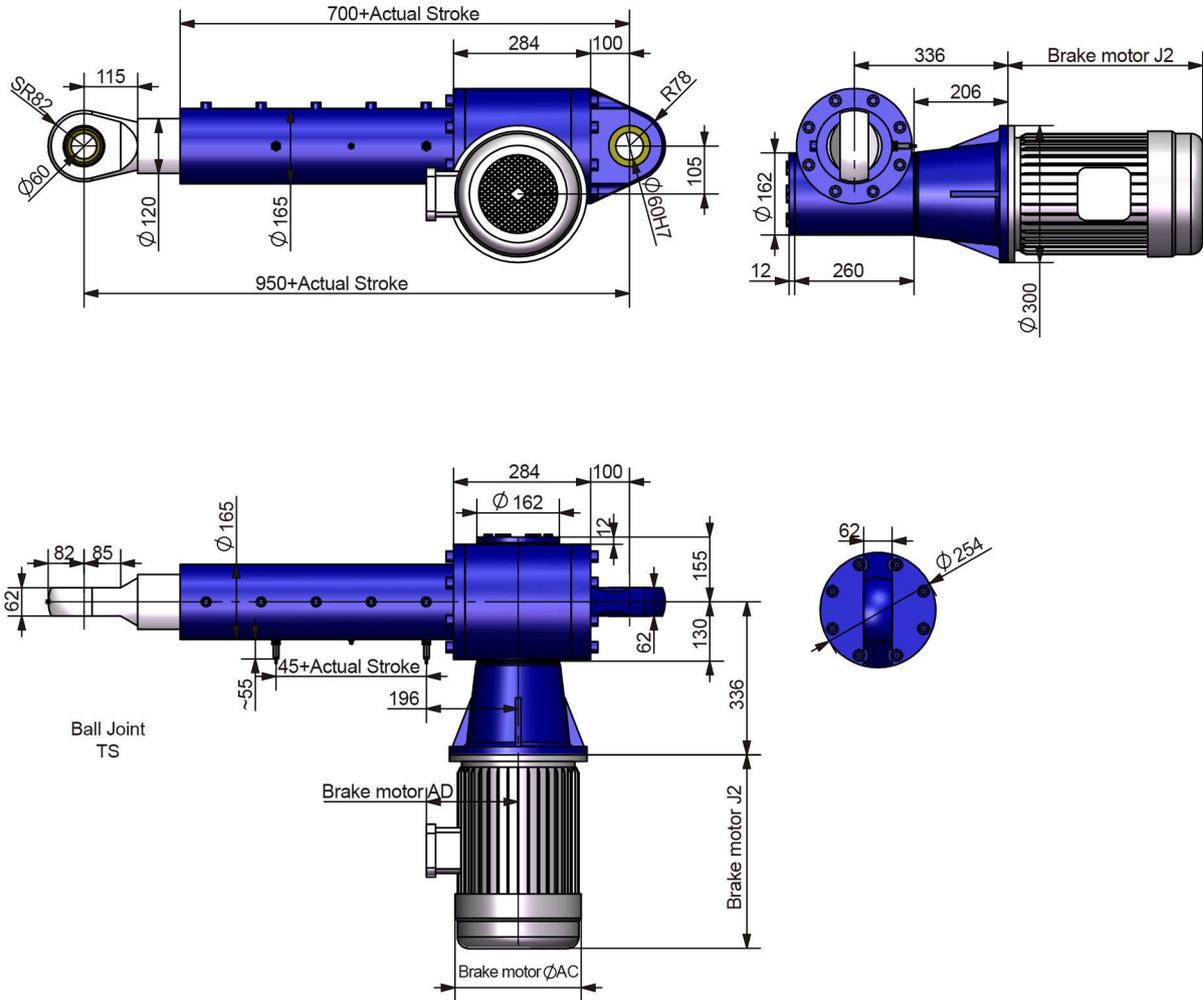


Stroke Code	100	200	300	400	500	600	700	800
Actual Stroke	120	220	320	420	520	620	720	820

Note: If the stroke is between 800mm-1500mm, the length of external tube & push rod will be increased by 200mm
 If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Dimension of LBP120

With Inductive Proximity switches FCP



	J2	AC	AD
With brake motor 132B5	525	275	220

Stroke Code	200	400	500	600	800	1000	1500
Actual Stroke	200	400	500	600	800	1000	1500

Note: If the stroke is between 1200mm-1500mm, the length of external tube & push rod will be increased by 250mm

If the stroke exceeds 1500mm, please consult with Lude Transmission engineers

Anti-rotating device AR is a standard configuration.

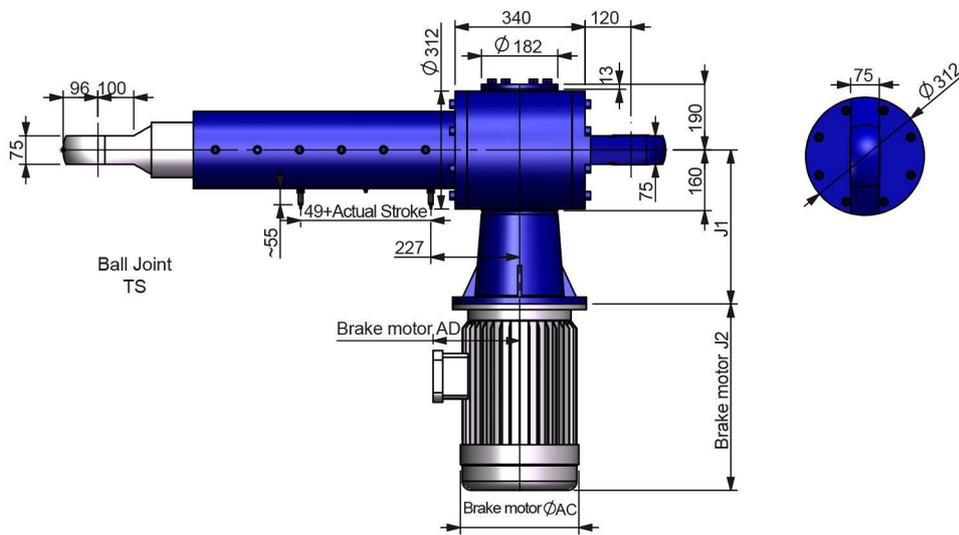
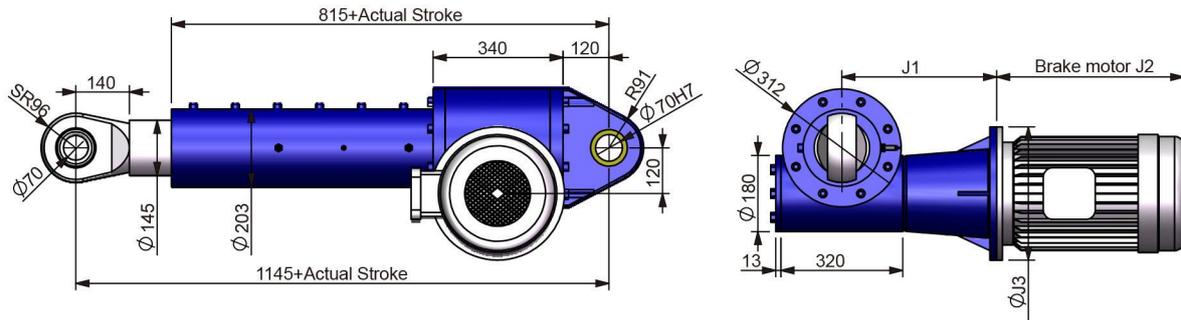


LINEAR MOTION

Overall Dimension of LBP Series Linear Actuator

Dimension of LBP200

With Inductive Proximity switches FCP



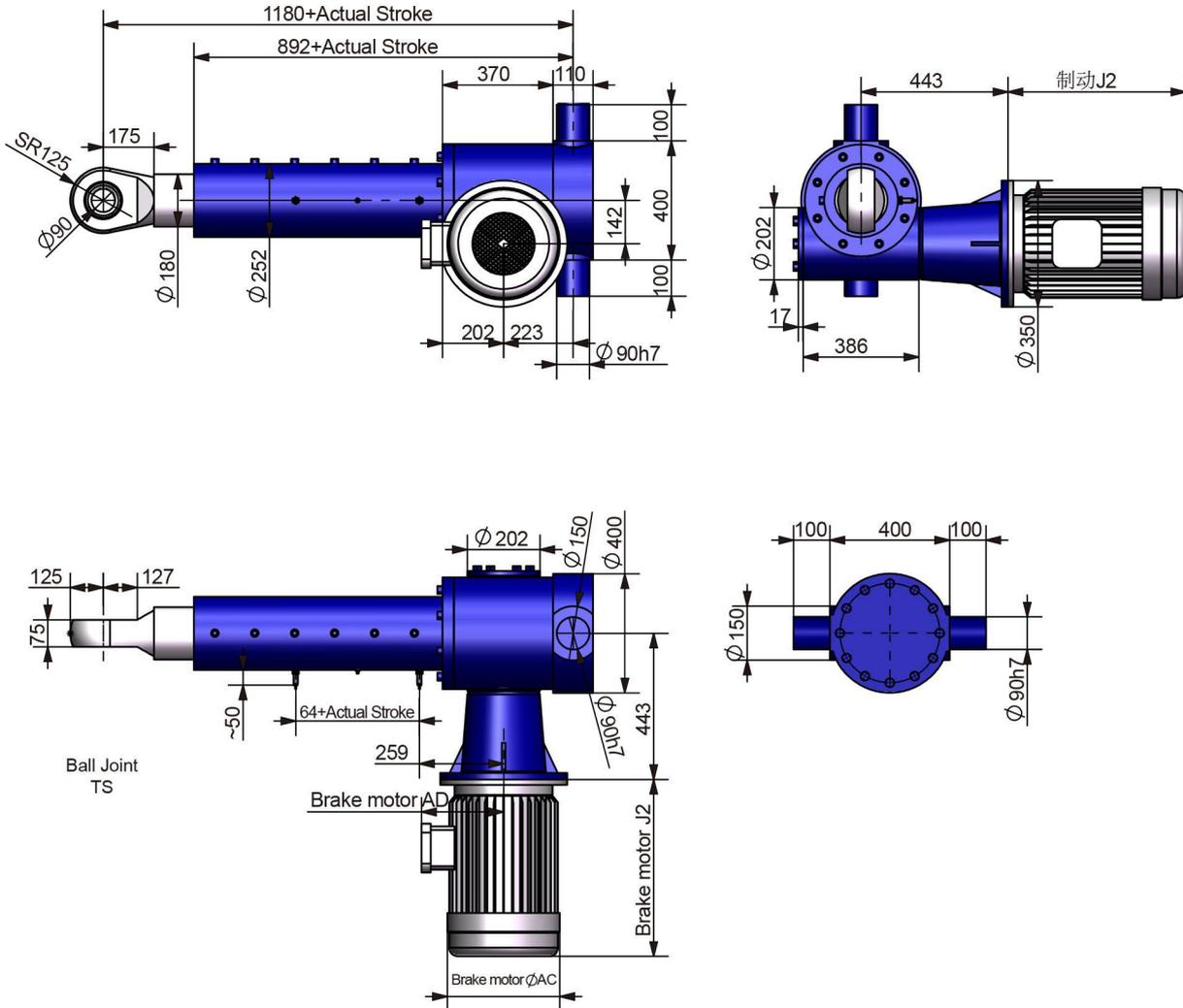
	J1	J2	J3	AC	AD
With brake motor 132B5	380	525	$\varnothing 300$	275	220
With brake motor 160B5	410	640	$\varnothing 350$	320	260

Stroke Code	200	400	500	600	800	1000	1500	2000
Actual Stroke	200	400	500	600	800	1000	1500	2000

Note: If the stroke between 1500mm-2000mm, the length of external tube & push rod will increase 300mm
 If the stroke exceed to 2000mm, please consult with Lude Transmission engineers
 Standard piston tube anti-rotating mechanism AR

Dimension of LBP300

With Inductive Proximity switches FCP



	J2	AC	AD
With brake motor 132B5	525	275	220
With brake motor 160B5	640	320	260

Stroke Code	200	400	500	600	800	1000	1500	2000
Actual Stroke	200	400	500	600	800	1000	1500	2000

Note: If the stroke between 1500mm-2000mm, the length of external tube & push rod will increase 300mm

If the stroke exceed to 2000mm, please consult with Lude Transmission engineers

Standard piston tube anti-rotating mechanism AR



System Accessories:

Magnetic Reed Switch (FCM)

The magnetic reed switches have two types: normally closed reed switch (standard) and the normally open limit switch.

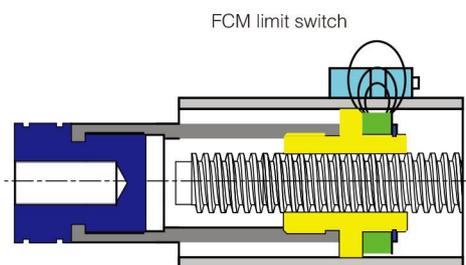
the magnetic ring at the end of the screw shaft moves along with the screw shaft, when the magnetic ring get close to the limit switch, the state of the limit switch will be changed through the magnetic field.

More reed switch can be placed along the stroke length, while the minimal distance between the two switches is 10mm and the magnetic limit switch must be connected to the control circuit. Cable length 1m

Control voltage: 3-130VDC/AC Current: 100mA

Repetitive accuracy: 0.1mm Ambient temperature: -10°C -70°C

Anti-turn device is not available when the actuator is equipped with FCM



External Limit Switches FCE

The FCE device consists of a sealed aluminum alloy box and steel rod. Adjust the position of the rings on steel rod which fixed by screw, we can get the stop position of actuator. Cable length 1m

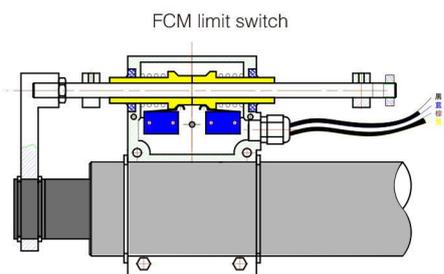
Control voltage: 3-130VDC/AC

Current: 100mA

Repetitive accuracy: 0.1mm

Ambient temperature: -30°C - 70°C

Note: The FCE device is recommended for linear speed lower than 30mm/s, for higher speed it is better to use FCM or use brake.



Limit Switch Box FCH

Mounting in shaft of SJ Screw Jack or SC Actuator. FCH is able to control the extreme position.

Structure with planet gear reducer + cam limit switch + potentiometer. Numbers of control position depends on number of cam switch, Max. 4 position control. Potentiometer is optional, could monitor the position of actuator to achieve close loop control.

Ambient Temperature -40°C - 80°C

Volt: 380V/220V

Protection: IP55, IP67



Proximity limit switch (FCP)

The thread is fixed on the required position outside the protective tube, and can not be adjusted; the normally closed limit switch is the standard.

Control voltage: 10-30VDC

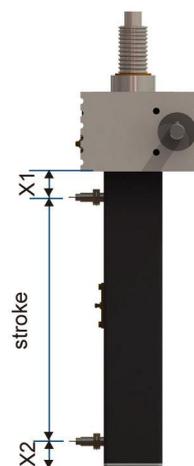
Max output current: 200mA

Repetitive accuracy: 0.04mm

Ambient temperature: -25°C -70°C

Cable length 1m

Type	X1	X2
SJA5	40	45
SJA10/SJB10	40	55
SJA20/SJB20/21/22	45	50
SJA50/SJB50/51	55	45
SJA80/SJB80/81	60	60
SJA100/SJB100/101	70	50
SJA200/SJB200/201	75	50
SJA300/SJB300	95	60

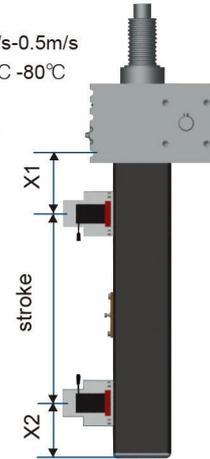


FCG limit switch

Fixed on the rear tube of the screw jack to control the extreme position of the screw shaft. Can be adjusted +5mm up and down when mounted. The configuration dimension of the limit switch: 80 × 70 × 22cm
Control voltage: 220AC
Operation current: 10A

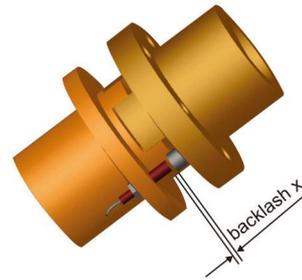
Operation speed: 0.05mm/s-0.5m/s
Ambient temperature: -10°C -80°C
Protective class: IP67
Lifetime: 10,000,000 times
Cable length 1m

Type	X1	X2
SJA5	40	45
SJA10/SJB10	40	55
SJA20/SJB20/21/22	45	50
SJA50/SJB50/51	55	45
SJA80/SJB80/81	60	60
SJA100/SJB100/101	70	50
SJA200/SJB200/201	75	50
SJA300/SJB300	95	60



Safety nut SN

SN-S safety nut is used in the screw jack with the traveling screw model
SN-R safety nut is used in the screw jack with the traveling nut movement style.
The safety nut is mounted below / above the main nut and normally will not withstand the axial load and only works against the lateral load. The safety nut will hold the whole load if the nut screw does not function. Replacement for the nut is imperative if the wear of the screw exceeds 20% of the pitch (clearance × changing volume = wear volume). The wear degree can be checked either with eyes or through connecting the sensor to the control circuit, which can sound the alarm timely. Mounting the safety nut will increase the length of the nut, therefore change the configuration of the screw jack, for the specific dimensions please contact the sales engineer.



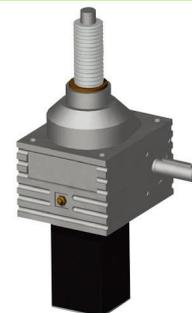
Bellow

Made of PVC polyester material with sewn construction.
Applicable temperature: -15°C -70°C
The minimum compressed length of the bellow should be taken into account when mounting the bellow. The compress ratio of the bellow is 10:1
Bellow is preferred for the acme and ball screw jack to prevent the dust and contaminants from damaging the screw.
Both ends of the bellows need to be fixed with the clamps, the position of the bellows need to be confirmed when the order is issued. The BS bellow is also a choice to protect the screw in the harsh environment.



Anti-backlash device AB

Used to adjust the opposite clearance of the acme thread nut. The preload will eliminate the teeth clearance of the screw nut, the smaller the clearance; the higher the position accuracy, but the appropriate clearance > 0.02mm must be guaranteed. Mounting the anti-backlash will decrease the transmission efficiency therefore changing the mechanical parameters of the screw jack. It is advised to lower the duty cycle accordingly.



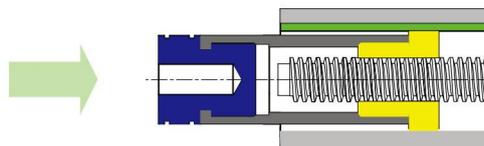


System Accessories:

Anti-turn device AR

Apply to the LAP/LBP series of actuators and SCA/SCB series actuators.
 It is recommended that the anti-turn device be used in the application, which requires that actuator will not self-rotate in the process of movement. A key groove is made on the nut, which ensures the nut and the actuator move in the direction of the key thus prevent the rotating of the actuator.

Caution: aution: Anti-turn device should not be used simultaneously with the magnetic limit switch FCM
 AR is standard configuration for SJA/SJB-S screw Jacks and DHB-S bevel gear screw jacks.



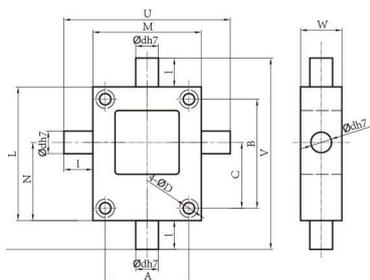
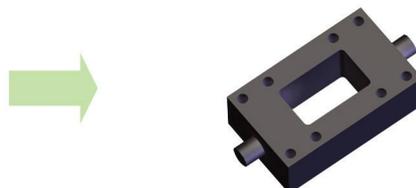
Incremental rotary encoder IRE

Mounted on the input shaft of the screw jack or the screw actuator, the feedback signal forms the closed loop to control the movement of the actuator
 Impulse value: 100/500 impulse per running
 Voltage: 5VDC
 Power supply voltage:5-30VDC
 Ambient temperature: -20°C -110°C
 Protective class: IP65



Trunnion mounting panel HBP

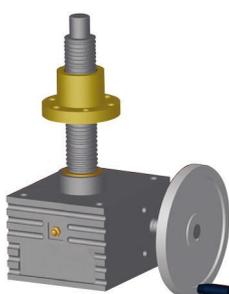
Fixed on the housing of the screw jack, enable the screw jack to rotate at a certain degree.
 The specific dimensions is related to the model type of the screw jack



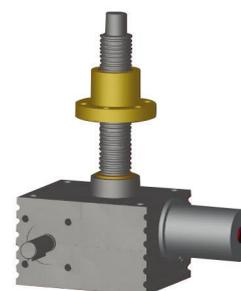
Model	Trunnion											
	A	B	C	D	L	M	N	U	V	W	d	l
SJA5-S...HBP	52	60	39	9	80	72	49	108	116	28	15	18
SJA10-S...HBP	63	78	49	9	100	85	60	127	142	30	17	21
SJA20-S...HBP	81	106	64	11	130	105	76	161	186	40	22	28
SJA50-S...HBP	115	150	87	13	180	145	102	225	260	50	32	40
SJA80-S...HBP	131	166	100	17	200	175	117	277	302	70	42	51
SJA100-S...HBP	155	170	100	21	220	205	125	321	336	75	48	58
SJA200-S...HBP	170	200	116.5	26	250	220	141.5	360	390	105	63	70
SJA300-S...HBP	200	235	135	30	295	270	165	420	445	115	68	75



Disk brake

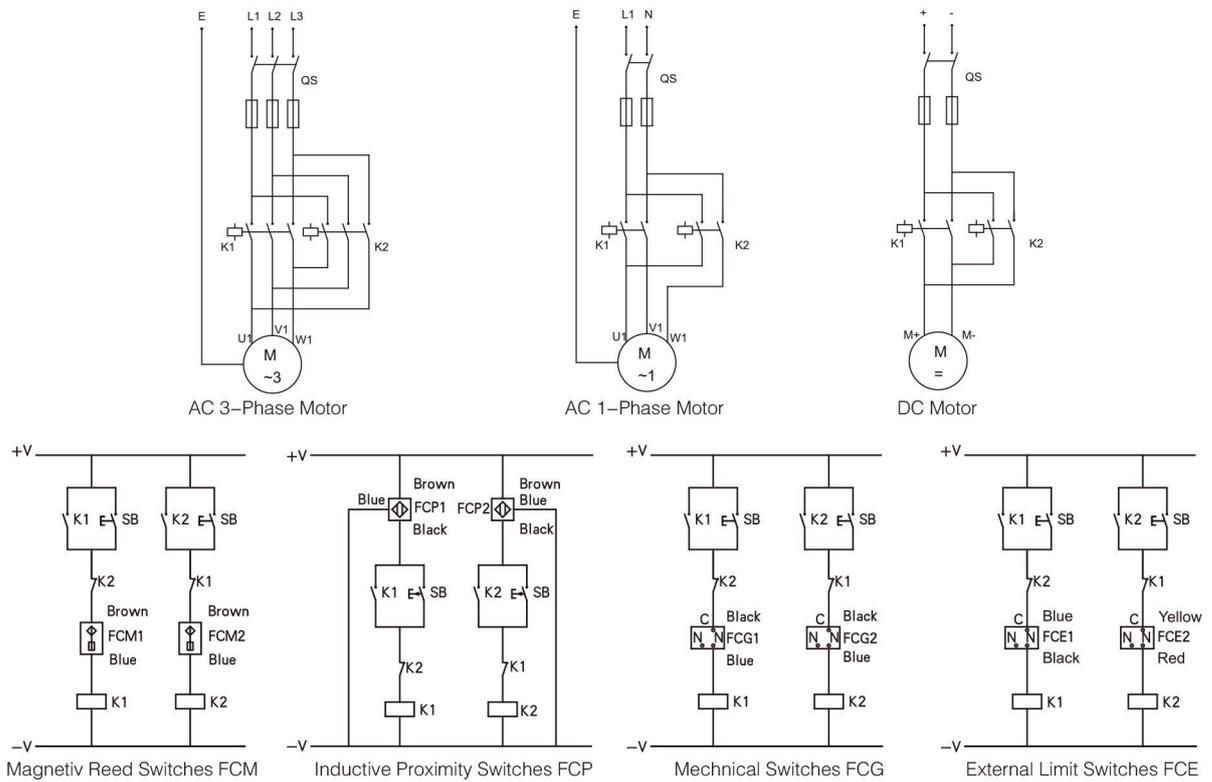


Hand Wheel



Automatic Lubricator

Wiring:



Lubrication and Maintenance:

LAP/LBP series of actuator

Long life lubricated, free from maintenance.

The worm gear, worm shaft, bearing and the screw has been well lubricated in the factory, unless there is some leakage of oil or damage, please lubricate the actuators according to the following table.

SJA/SJB/SCA/SCB series of screw jack

The worm gear, worm shaft, bearing and the screw has been well lubricated at the factory, the lubricating volume exceeding the volume stated in the table will impinge the mechanical efficiency of the screw jack meantime increase the possibility of the oil leakage.

Actuator	Worm gearbox		Actuating parts		Screw Jack	Worm gearbox		Actuating parts	
	Lubricant	Quantity [g]	Lubricant	Quantity Per 1m [g]		Lubricant	Quantity [g]	Lubricant	Quantity Per 1m [g]
LAP/LBP22	MOBILEP3 or equivalent	30	MOBIL XHP222 or equivalent	100	SJA5	MOBILEP3 or equivalent	80	MOBIL XHP222 or equivalent	300
LAP/LBP25		45		150	SJA/SJB10		130		400
LAP/LBP28		60		200	SJA/SJB/SCA/SCB20/21/22		170		550
LAP/LBP32		60		300	SJA/SJB/SCA/SCB50/51		430		650
LAP/LBP35		90		400	SJA/SJB/SCA/SCB80/81		850		750
LAP/LBP40		130		500	SJA/SJB/SCA/SCB100/101		1100		850
LAP/LBP56		350		700	SJA/SJB/SCA/SCB200/201		1700		1000
LAP/LBP63		700		950	SJA/SJB300/SCA/SCB300		2550		1500
LAP/LBP80		1500		1200	SJA/SJB450		3570		2000
LAP/LBP120		2500		1500	SJA/SJB700		5100		2600
LAP/LBP200		3600		2000	SJA/SJB1000		7200		3300
LAP/LBP300		5500		2800					

Choose different types of grease according to different working environments (high or low temperature environment)

Special grease for the food industry is also available

For the high duty cycle screw jack, the grease will lose its lubricating function; entry of granule contaminants might deteriorate the working performance. It is advised to do a thorough cleaning and re-lubricating the screw jack.

It is recommend to use the grease can which is able to supply the continuous lubrication to the inside surface of the housing automatically.

Appropriate lubrication to the lubricating board inside the rear tube should be carried out periodically.

The nut and the screw should be lubricated appropriately every 200 working hours or according to the specific environment.

AC MOTOR

Actuator and Screw Jack are configured with IEC standard AC 3 Phase motor

Depends Motor RPM we supply 2 Poles , 4 Poles and 6 Poles motor for Linear Actuator

Standard Motor Flange diemsnion are IEC B14 or B5, we also supply non standard flange to meet customer's requirements.

Customer can also choose AC single phase motor, DC motor , Step Motor , Servo motor or Explosion-Proof motor.

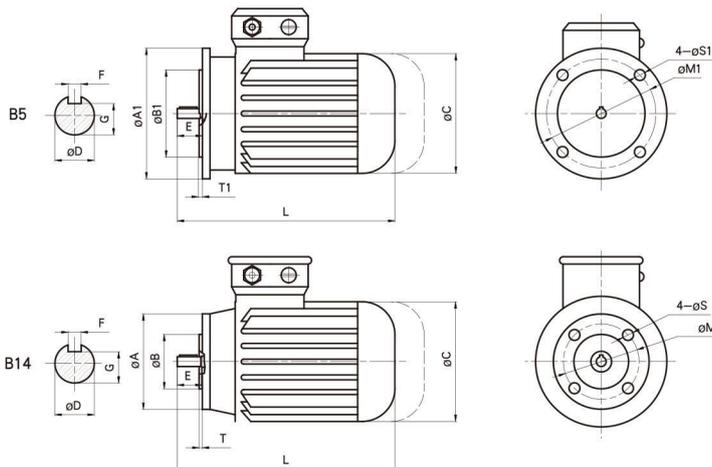
Protection Class: Standard IP54 and Optional : IP55 IP56 IP65 IP66

Insulation Class: F , Optional H

Voltage: 380/220V 50Hz, 440V/255 60Hz

Frequency range: 10-60Hz

Accessories: Brake, Temperature pretection device, Encoder



Frame Size	Power kw	Speed RPM	Rated Torque Nm	Current A/400V	Weight kg
56	0.09	1300	0.66	0.45	4
	0.09	2750	0.31	0.42	
	0.12	2750	0.42	0.48	
63	0.18	2780	0.86	0.68	4.5
	0.12	1330	1.29	0.85	
	0.18	1330	0.62	0.51	
71	0.25	2780	0.86	0.78	6.2
	0.18	900	1.91	0.85	
	0.25	900	2.65	1	
80	0.25	1360	1.76	0.9	17
	0.37	1360	2.6	1.2	
	0.37	2800	1.26	1.3	
90S	0.55	2800	1.88	2	29
	0.18	690	2.49	0.76	
	0.25	690	3.46	0.97	
100	0.37	925	3.82	1.22	37
	0.55	925	5.68	1.63	
	0.55	1430	3.67	1.7	
112	0.75	1430	5.01	2	50
	0.75	2870	2.5	1.8	
	1.1	2875	3.65	2.5	
132	0.37	695	5.08	1.3	77
	0.55	695	7.56	1.9	
	0.75	945	7.58	2.5	
160	1.1	950	11.1	3.3	146
	1.1	1430	7.35	3.8	
	1.5	1430	10	4.6	
160L	1.5	2880	4.97	3.7	146
	2.2	2880	7.3	4.6	
	0.75	705	10.2	2.3	
160L	1.1	705	14.9	3.1	146
	1.5	950	15.1	4.4	
	2.2	1440	14.6	7.3	
160L	3	1440	19.9	8.9	146
	3	2880	9.95	7.2	
	1.5	710	20.2	4.1	
160L	2.2	965	21.8	7.2	146
	4	1455	26.3	8.4	
	2.2	725	29	5.7	
160L	3	725	39.5	7.5	146
	3	975	29.4	7.2	
	4	975	39.2	9.5	
160L	5.5	1465	35.9	11.2	146
	7.5	1465	48.9	15	
	4	730	52.3	9.8	
160L	5.5	730	72.0	13.1	146
	7.5	980	73.1	16.2	
	11	980	107	23.1	
160L	11	1470	71.5	21.5	146
	15	1470	97.4	28.8	

Frame Size	A	A1	B	B1	C	D	E	F	G	L	M	M1	S	S1	T	T1
56M	80	120	50	80	115	9	20	3	7.2	198	65	100	M5	7	2.5	3
63M	90	140	60	95	127	11	23	4	8.5	225	75	115	M5	10	2.5	3
71M	105	160	70	110	145	14	30	5	11	255	85	130	M6	10	2.5	3.5
80M	120	200	80	130	165	19	40	6	15.5	295	100	165	M6	12	3	3.5
90S	140	200	95	130	180	24	50	8	20	345	115	165	M8	12	3	3.5
90L	140	200	95	130	180	24	50	8	20	385	115	165	M8	12	3	3.5
100L	160	250	110	180	205	28	60	8	24	390	130	215	M8	15	3.5	4
112M	160	250	110	180	225	28	60	8	24	455	130	215	M8	15	3.5	4
132S	200	300	130	230	270	38	80	10	33	475	165	265	M10	15	4	4
132M	200	300	130	230	270	38	80	10	33	510	165	265	M10	15	4	4
160M	300	350	230	250	320	42	110	12	37	610	265	300	M12	18.5	4	5
160L	300	350	230	250	320	42	110	12	37	655	265	300	M12	18.5	4	5



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