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NEW

Servo Cylinder Series with linear bushing rod guide

Servo Cylinder Series

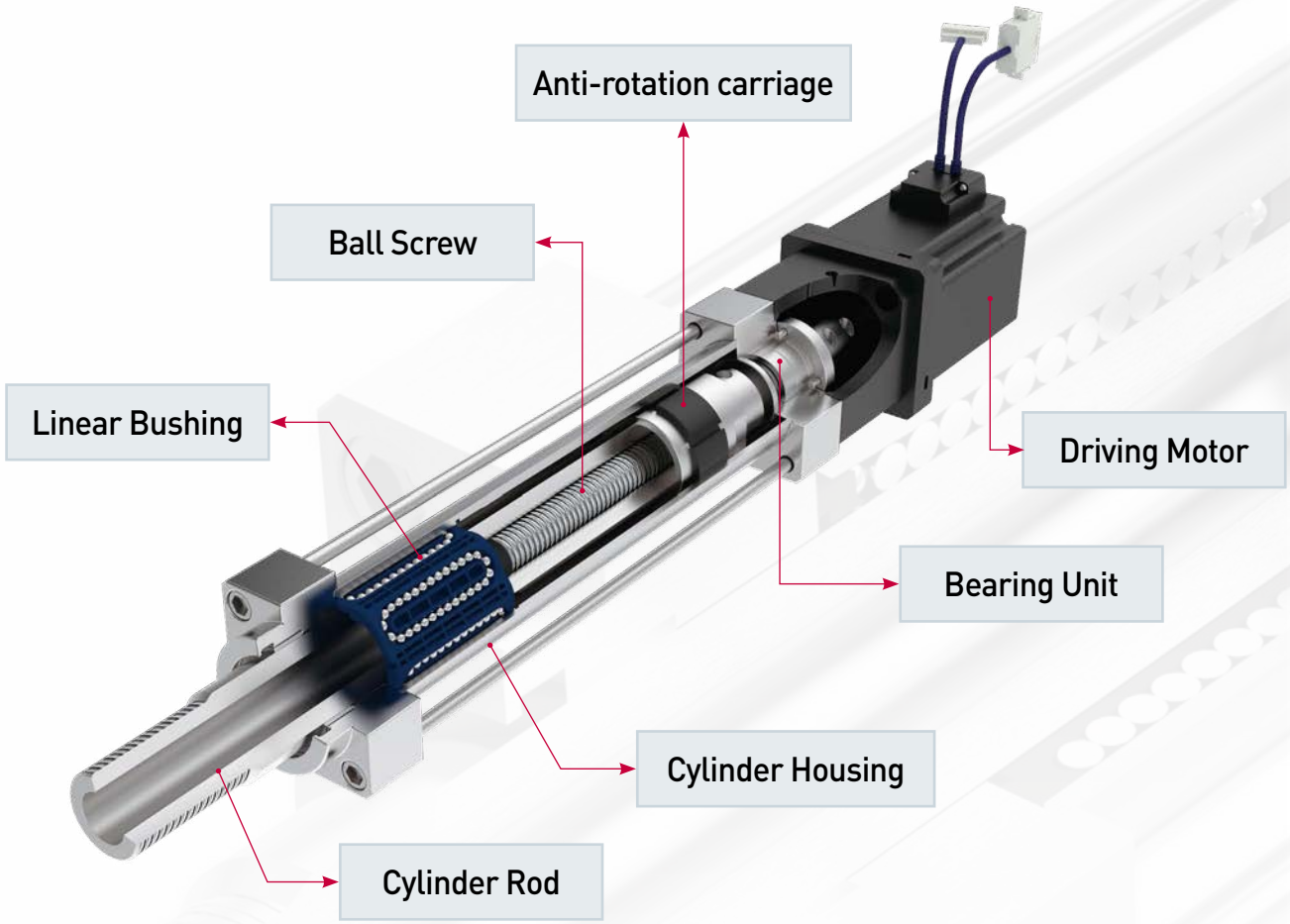
Servo cylinders that can replace hydraulic or pneumatic cylinders

High-speed continuous operation / high rigidity / long service life / wide range of applications

SAMICK

Servo cylinder combined with SAMICK linear bushing expertise: high rigidity, high speed, long service life

Direct drive



Patented (2014)

- Stable accuracy
- High rigidity and rod rotation control
- Easy driving motor operating

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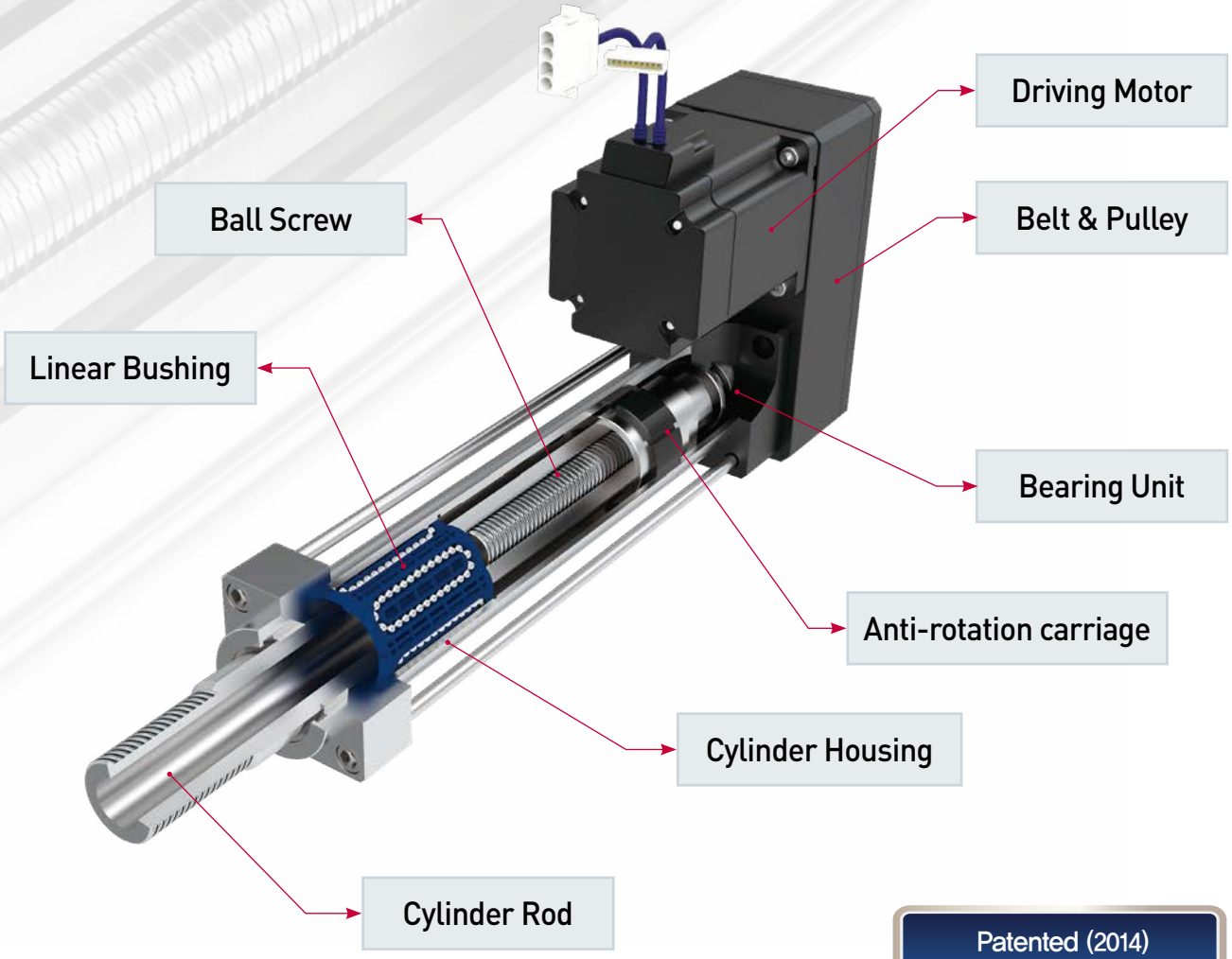
Parallel drive



Patented (2014)

- Stable accuracy
- High rigidity and rod rotation control
- Easy driving motor operating
- Highly space efficient

Features

1) Using a linear bushing as a rod guide offers minimal friction resistance, smooth motion, high-speed operation, and long service life
2) Cylinder barrel and rod are made of highly rigid bearing steel, suitable for harsh industrial environments
3) Various interchangeable types available for manufacturing versatility and field customization
4) Suitable for use in closed-loop control systems

Benefits

1) Exact path and position control
2) High holding torque
3) Excellent low-speed properties
4) Easy installation
5) Reduction of maintenance costs
6) Ideal for repeatability, vertical mounting, and compression applications

Part number

SAS – C 32 D S – 000 S

- **TYPE**
  - * Standard : C
  - * Tie rod : T
  - * Square : S
- **SIZE**
- **Drive method**
  - * Direct drive: D
  - * Parallel drive: P
- **Mounting type**
  - * Basic : S
  - * Rod side flange : F
  - * Foot : L
  - * Clevis(Parallel) : C
  - * Trunnion(Square) : G
- **STROKE**
- **Sensor(Option)**
  - * S : 1EA(Origin)
  - * 2 : 2EA(Origin, –0T)
  - * 3 : 3EA(Origin, –0T,+0T)

Basic specification

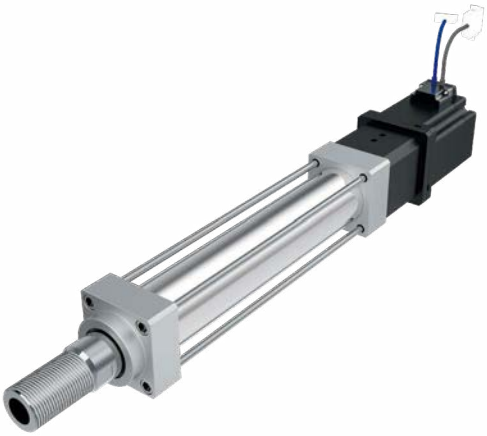
Items	Φ32	Φ40	Φ60	Φ80
Ball Screw Lead (mm)	(2), 3, (4), (10)	(2), 4, (5)	5, (10), (20)	10
Ball Screw Dia. (mm)	10	12	20	20
Maximum thrust (kgf)	60	200	500	1,000
Maximum speed (mm/sec)	150	200	250	330
Stroke (st) (mm)	~ 400	~ 600	~ 800	~ 800
Maximum rotation angle of rod (°)	±0.2	±0.25	±0.25	±0.25
Repeatability (mm)	±0.02	±0.02	±0.02	±0.01

Note 1. The specification in parentheses of Ball Screw Lead are custom specifications.

Examples of Basic type

Standard Direct Basic
(SAS-C ＊＊ D-S)

Standard parallel Basic
(SAS-C ＊＊ P-S)



Tie rod Direct Basic
(SAS-T ＊＊ D-S)

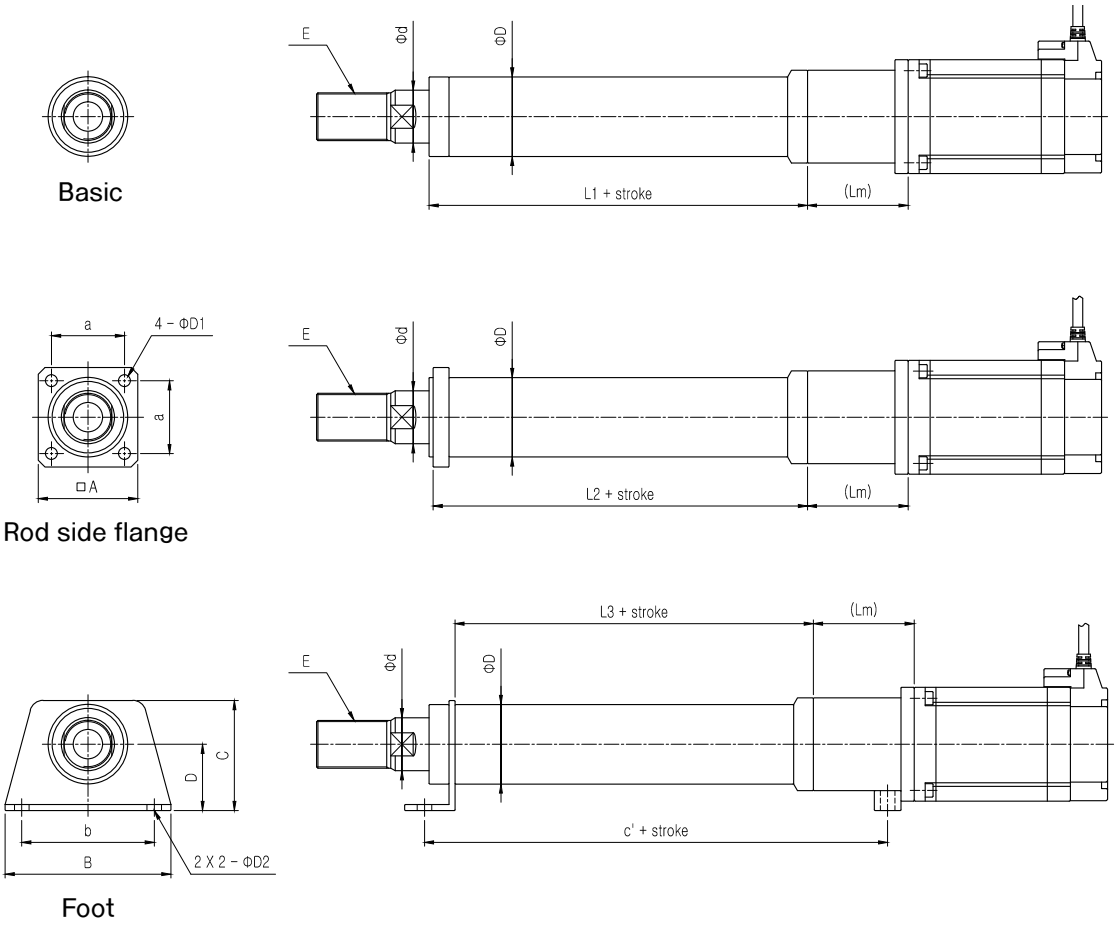
Tie rod parallel Basic
(SAS-T ＊＊ P-S)

Square Direct Basic
(SAS-S ＊＊ DS- ＊＊＊)

Square parallel Basic
(SAS-S ＊＊ PS- ＊＊＊)

Dimensions

■ Standard (Direct type)



– Direct type

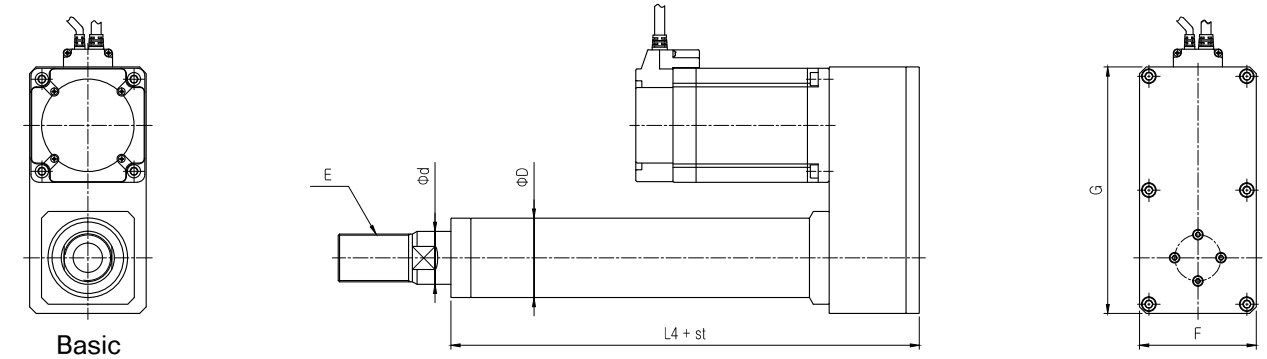
	ΦD	Φd	L1	L2	L3	(Lm)	□A	B * C * D	a * a * ΦD1	b * c` * ΦD2	E
Φ32	32	20	156.5	146.5	136.5	(42)	46	82 * 52 * 33	32.5 * 32.5 * 7	62 * 182 * 7	M18×1.5
Φ40	40	25	178	173	163	(44)	55	90 * 59 * 36	40 * 40 * 9	70 * 208.1 * 9	M22×1.5
Φ60	60	40	235.5	232.5	220.5	(76)	75	125 * 83 * 50	55 * 55 * 9	100 * 299.5 * 11	M36×1.5
Φ80	80	50	280	277	257	(107)	100	165 * 115 * 70	75 * 75 * 14	130 * 346 * 14	M45×1.5

– Parallel type

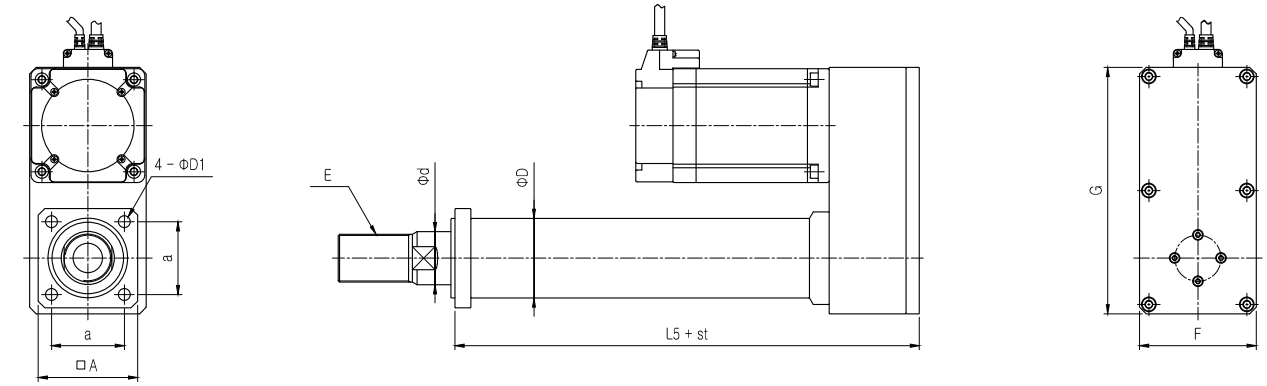
	L4	L5	L6	F * G	b * d * ΦD2	ΦD3	H	J * K
Φ32	198.5	193.5	195.5	52 * 120	62 * 182 * 7	10	30	15 * 20
Φ40	229	224	229	62 * 136	70 * 238.5 * 9	12	35	18 * 24
Φ60	303.5	300.5	308.5	88 * 186	100 * 308.5 * 11	16	40	25 * 32
Φ80	363	360	364	130 * 258	130 * 378 * 14	22	52	30 * 45

Note 1. SAMICK can respond to customer specification on ROD tip(E) other than standard screw.

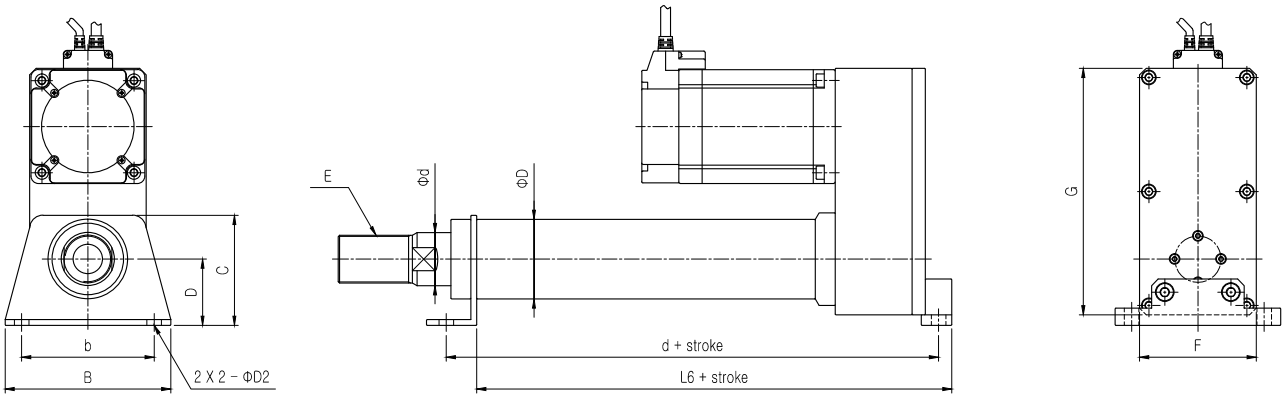
■ Standard (Parallel type)



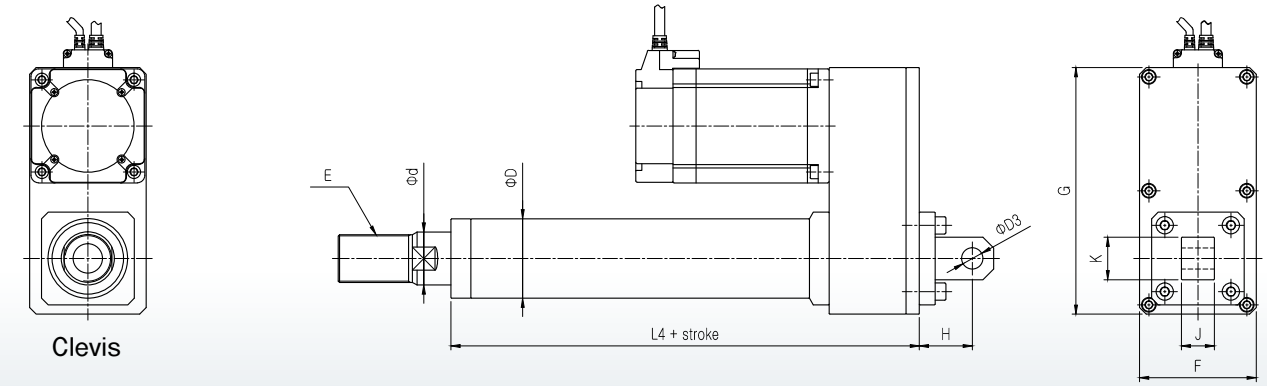
Basic



Rod side flange

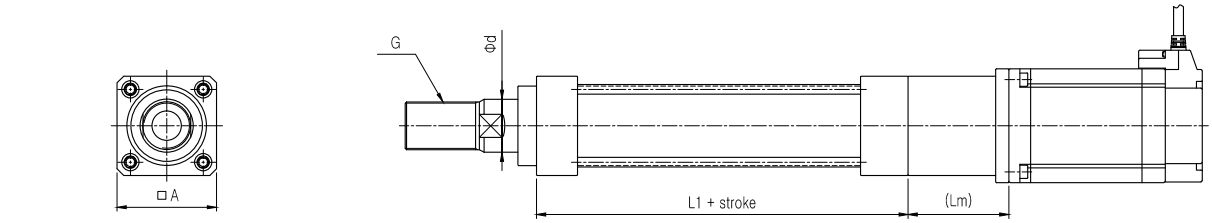


Foot

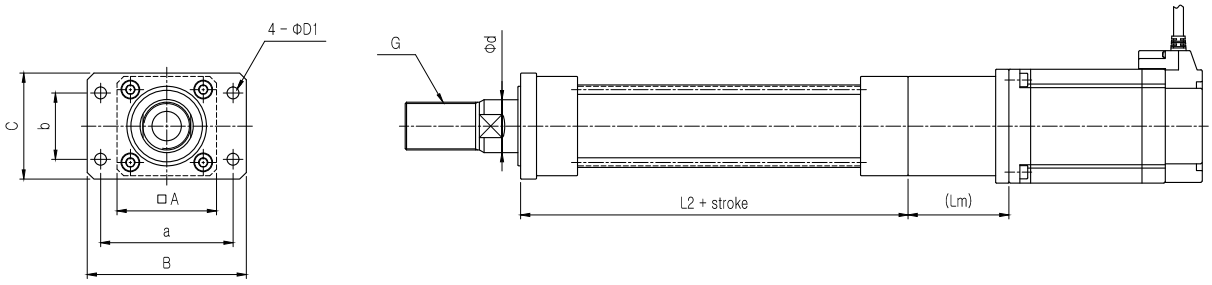


Clevis

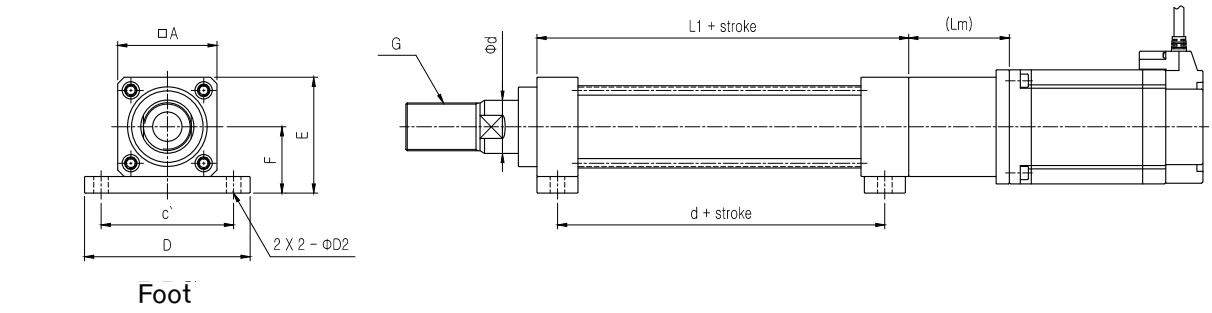
■ Tie rod (Direct type)



Basic



Rod side flange



Foot

- Direct type

	□A	Φd	L1	L2	(Lm)	B * C	D * E * F	a * b * ΦD1	c' * d * ΦD2	G (※)
Φ32	46	20	146	156	(42)	79 * 50	82 * 56 * 33	64 * 32 * 7	62 * 119 * 7	M18×1.5
Φ40	52	25	173	183	(45)	90 * 55	90 * 62 * 36	72 * 36 * 9	70 * 145 * 9	M22×1.5
Φ60	75	40	230.5	242.5	(76)	120 * 80	125 * 87.5 * 50	100 * 50 * 9	100 * 197 * 11	M36×1.5
Φ80	100	50	277	297	(107)	160 * 110	165 * 120 * 70	130 * 76 * 14	130 * 229 * 14	M45×1.5

- Parallel type

	L3	L4	H * J	ΦD3	K	L * M
Φ32	193	203	52 * 120	10	30	15 * 20
Φ40	225	235	62 * 136	12	35	18 * 24
Φ60	198.5	310.5	88 * 186	16	40	25 * 32
Φ80	360	380	130 * 258	22	52	30 * 45

Note 1. SAMICK can respond to customer specification on ROD tip(G) other than standard screw.

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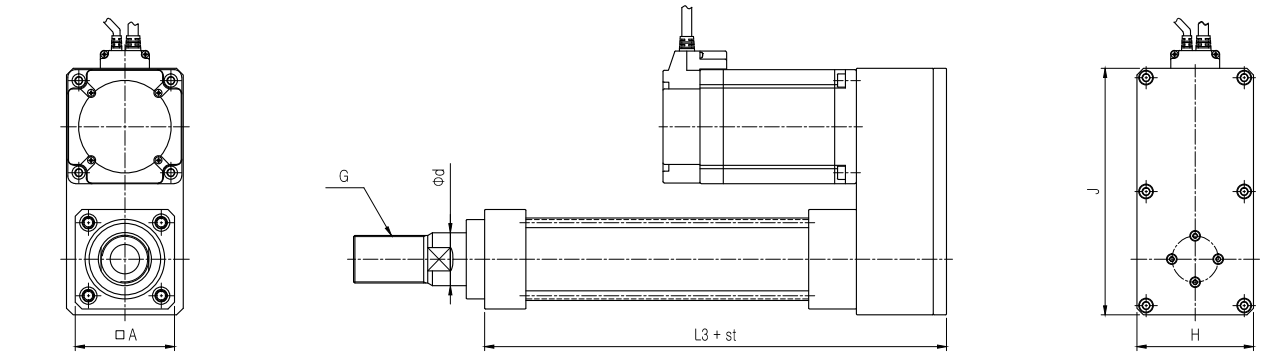
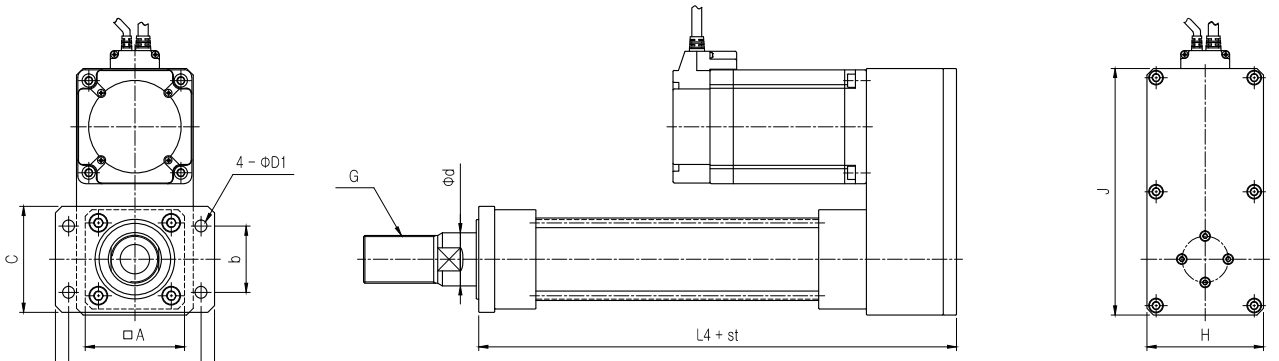
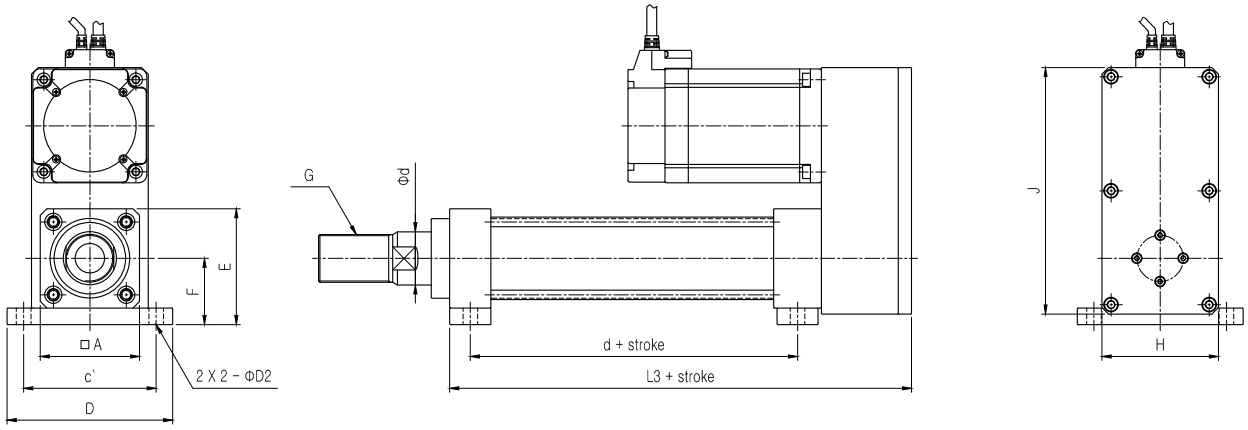
■ Tie rod (Parallel type)



Basic



Rod side flange



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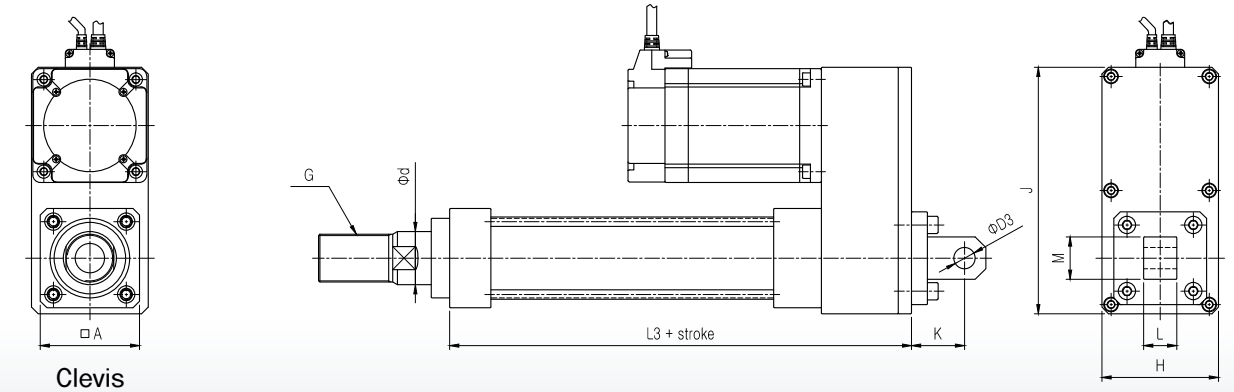
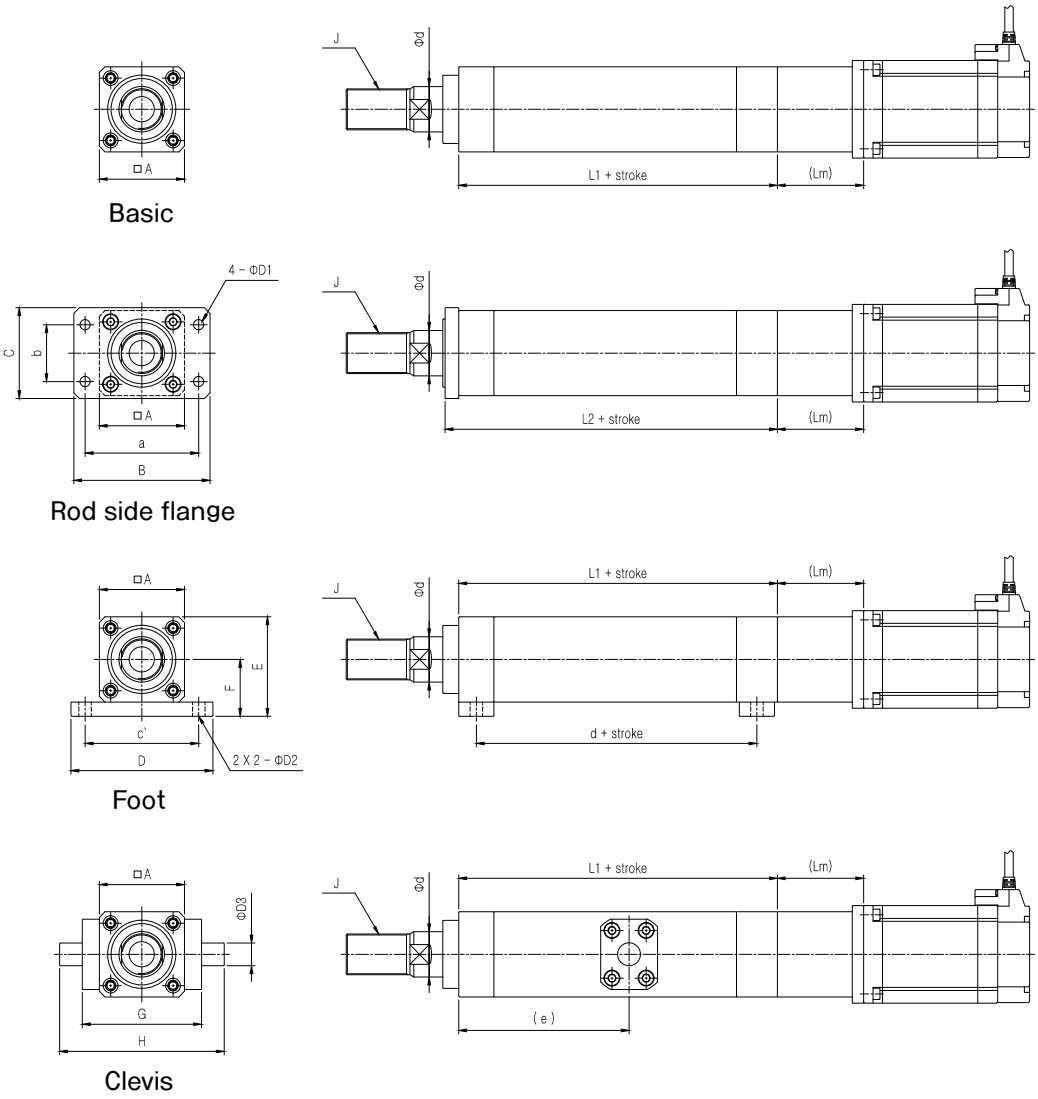


Clevis

■ Square (Direct type)



- Direct type

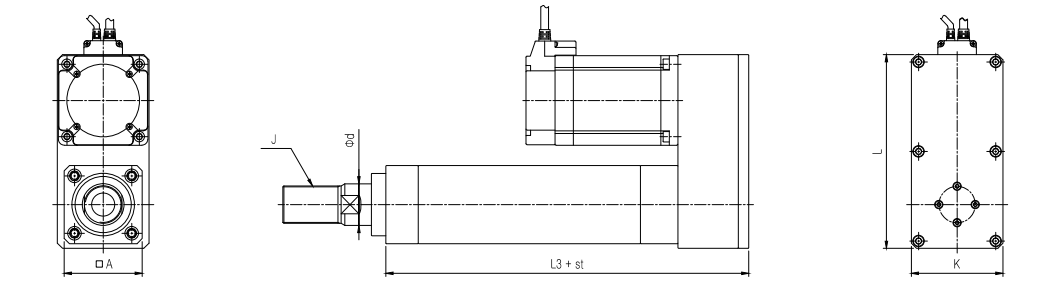
	□A	Φd	L1	L2	(Lm)	B * C	D * E * F	G * H	a * b * ΦD1	c` * d * ΦD2	(e) * ΦD3	J (※)
Φ32	46	20	146	156	(42)	79 * 50	82 * 56 * 33	66 * 90	64 * 32 * 7	62 * 119 * 7	(123) * 12	M18×1.5
Φ40	52	25	173	183	(45)	90 * 55	90 * 62 * 36	72 * 104	72 * 36 * 9	70 * 145 * 9	(136) * 16	M22×1.5
Φ60	75	40	230.5	242.5	(76)	120 * 80	125 * 87.5 * 50	105 * 145	100 * 50 * 9	100 * 197 * 11	(150) * 20	M36×1.5
Φ80	100	50	277	297	(107)	160 * 110	165 * 120 * 70	140 * 190	130 * 76 * 14	130*229*14	(163)*25	M45×1.5

- Parallel type

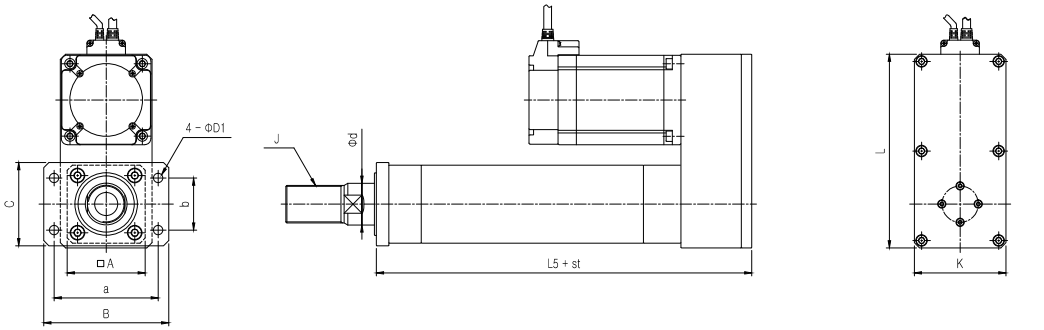
	L3	L4	K * L	ΦD4	M	N*P
Φ32	193	203	52 * 120	10	30	15 * 20
Φ40	225	235	62 * 136	12	35	18 * 24
Φ60	198.5	310.5	88 * 186	16	40	25 * 32
Φ80	360	380	130 * 258	22	52	30 * 45

Note 1. SAMICK can respond to customer specification on ROD tip(J) other than standard screw.

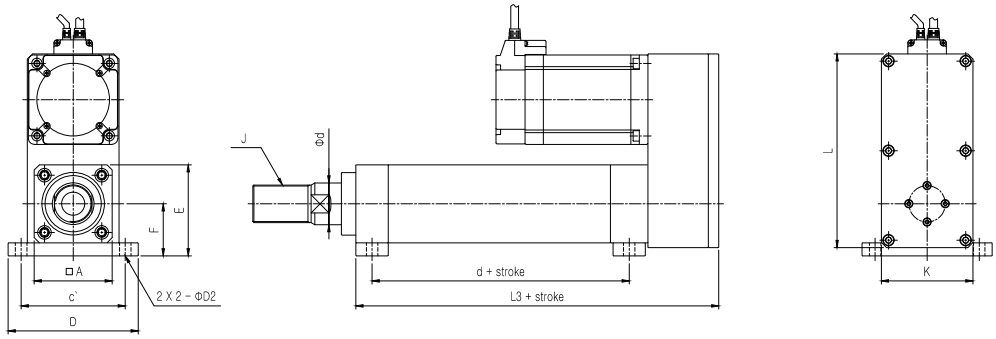
■ Square (Parallel type)



Basic



Rod side flange



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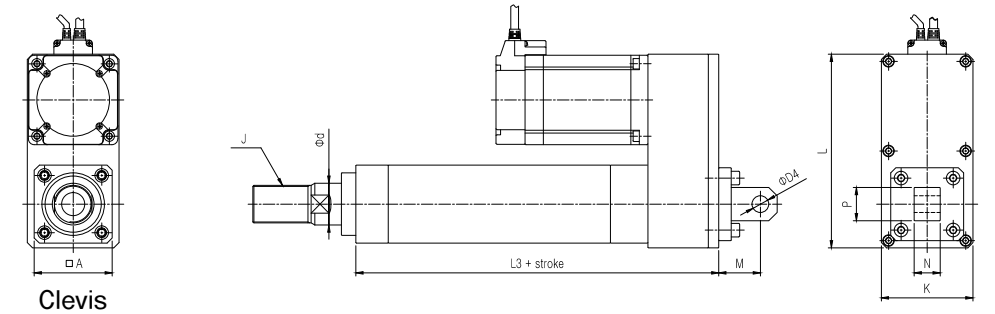
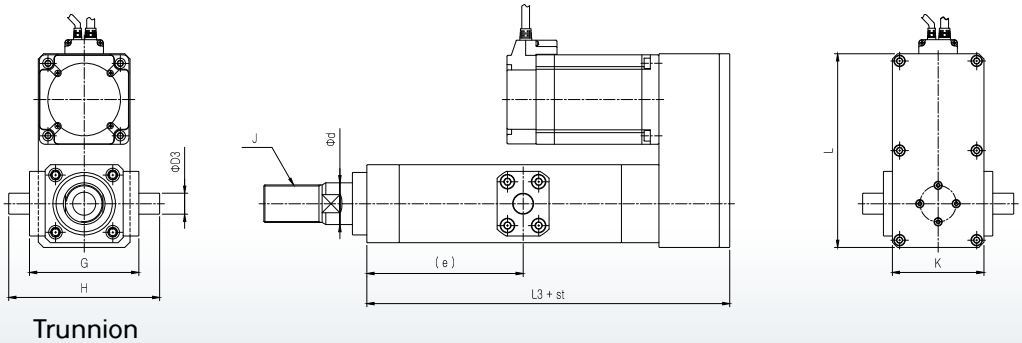


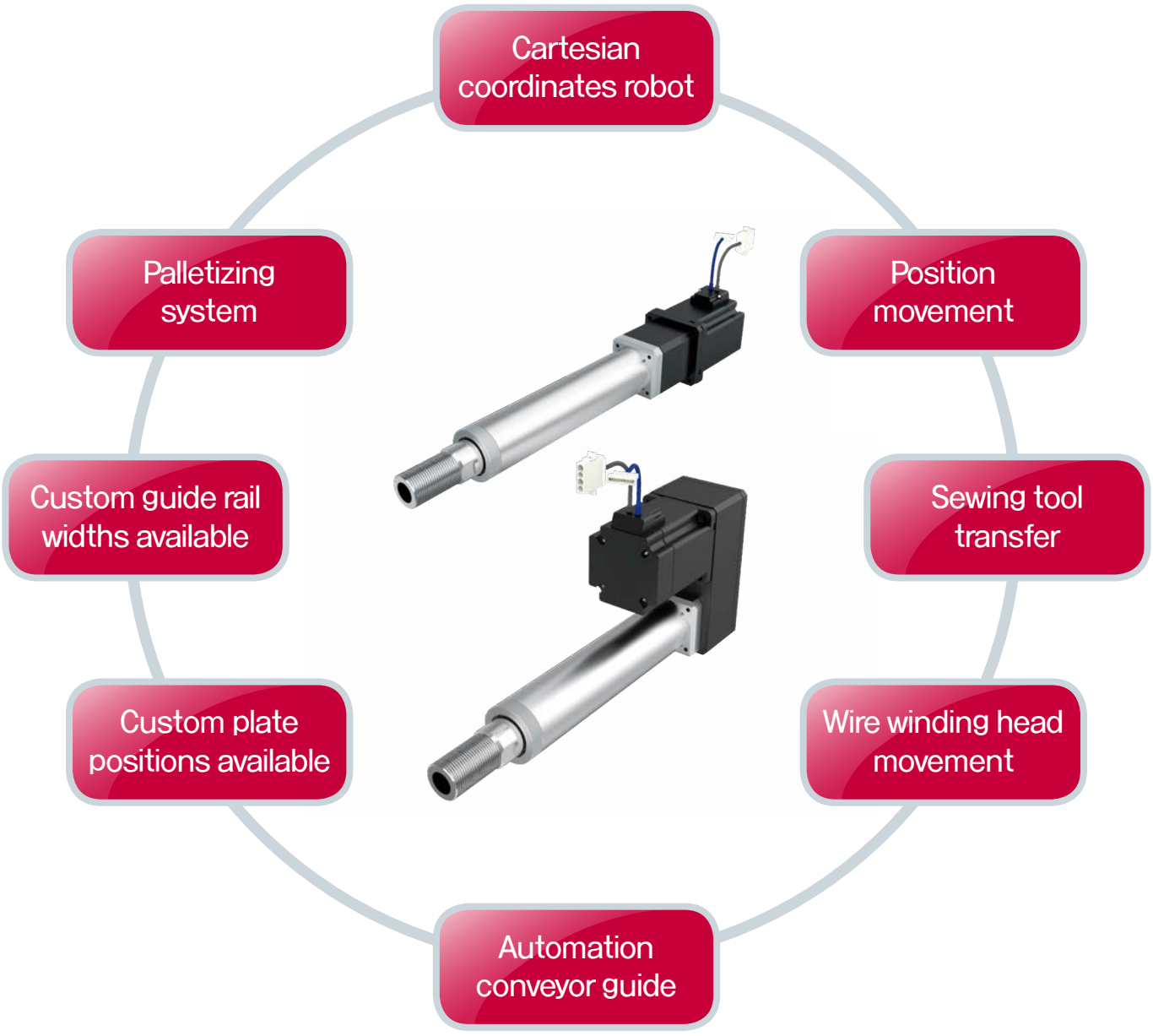
Clevis



Trunnion

Usages

- One type of Electric actuator that can replace hydraulic or pneumatic
- Position control cylinder that can be applied to transport systems, clamping devices, distribution systems and mixed production systems in industrial automation



Custom design and manufacturing to various specifications

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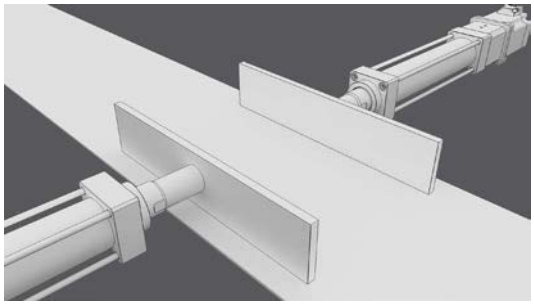
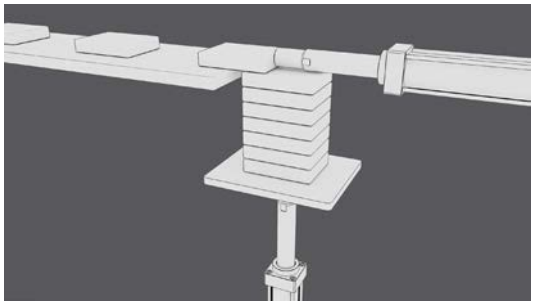
Application Example

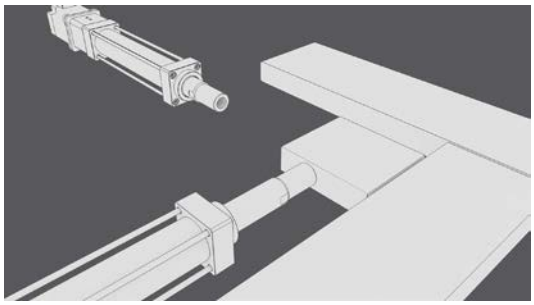
Custom guide rail widths adjustment



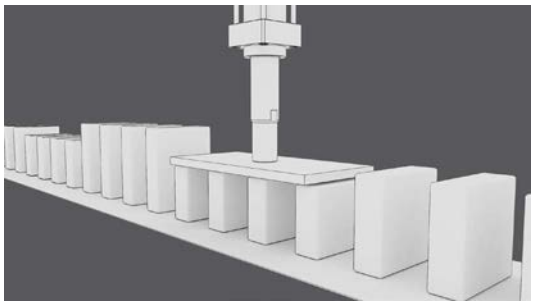
Palletizing System



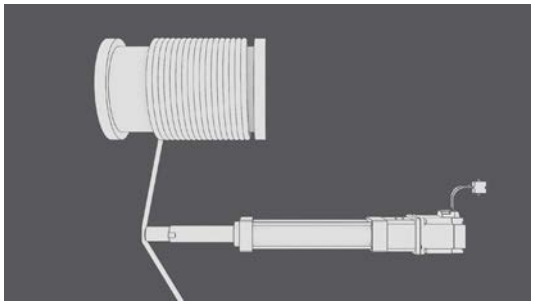
Custom plate positions adjustment



Position Movement



Wire winding-head movement



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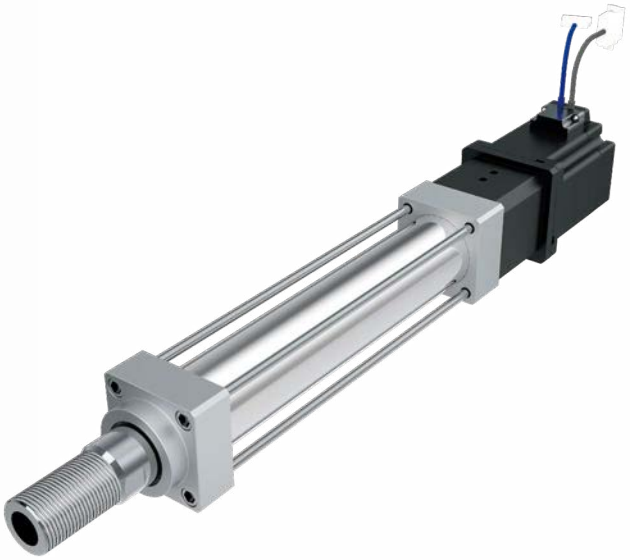
Servo Cylinder Series



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