

HENGLI

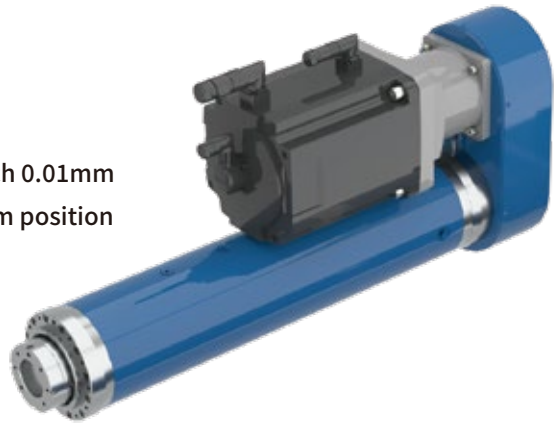
ELECTRIC CYLINDER

Product Description

The SPA series electric cylinder is a servo linear actuator that integrates tension and pressure sensors. In the field of industrial automation, it is possible to effectively monitor the force displacement relationship in high speed and precision assembly processes such as pressing, forming, riveting, stamping, and elastic testing; It can reduce the manufacturing cost, assembly cost, and inspection cost of workpieces, and also meet the increasing precision machining and manufacturing tolerance requirements of customers; Realize intelligent assembly, evaluation, optimization, and analysis to create value for customers.

Product Advantages

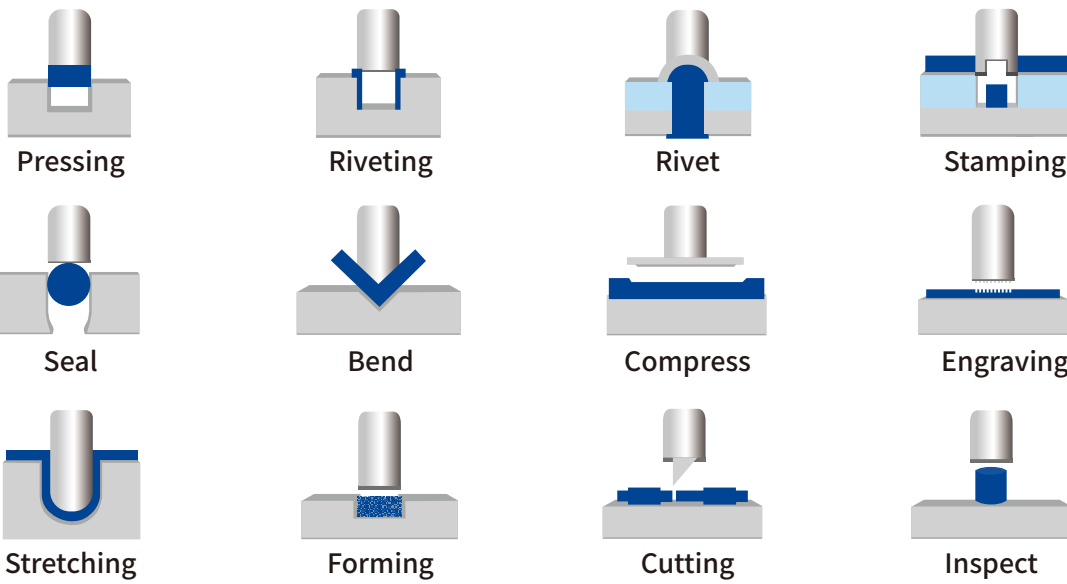
- ★ Standard electromagnetic brake, safe and reliable
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- ★ Force sensor measurement accuracy of 0.5%
- ★ The displacement repetitive positioning accuracy can reach 0.01mm
- ★ Standard absolute value encoder, no loss of power or alarm position
- ★ Built in pressure sensor, compact structure, bidirectional tension and compression load
- ★ The service life of key components such as screws and bearings reaches 15 million revolutions per minute



Selection Example

Type		S P A				—				—				Structural Style	
Load output														U Switchback	
002 200kg														I Direct connection type	
005 500kg		060 6000kg												200 200mm	
010 1000kg		100 10000kg												300 350mm 100 100mm	
020 2000kg		150 15000kg												400 400mm 150 150mm	
030 3000kg		200 20000kg													

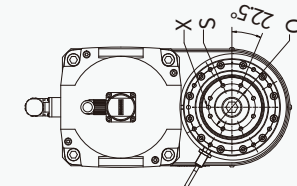
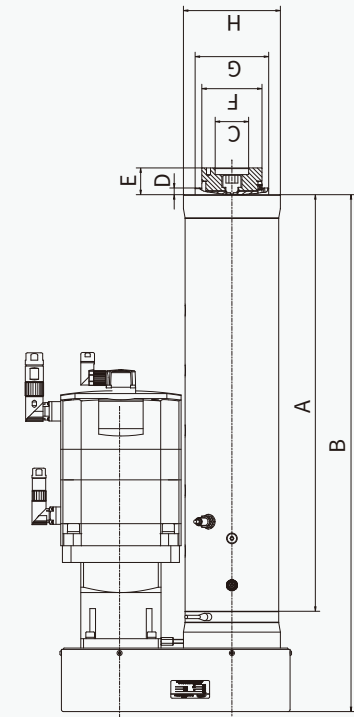
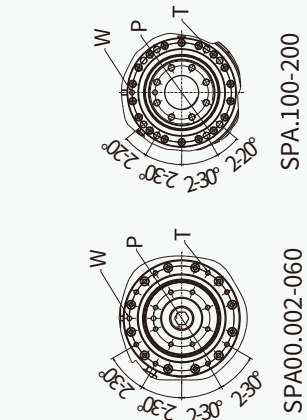
Product Applications



Performance Overview

Electric Cylinder Model	SPA. 002.XXX. U (I)	SPA. 005.XXX. U (I)	SPA. 010.XXX. U (I)	SPA. 020.XXX. U (I)	SPA. 030.XXX. U (I)	SPA. 060.XXX. U (I)	SPA. 100.XXX. U (I)	SPA. 150.XXX. U (I)	SPA. 200.XXX. U (I)
Form	Foldback Type (Direct Connection Type)								
Installation Method	Front Flange								
Effective Travel(mm)	100/200	100/200	100/200	150/300	150/300	200/400	200/400	200/400	200/400
Rated Output(kN)	2	5	10	20	30	60	100	150	200
Overload Capacity(kN)	10% Rated Pressure								
Maximum Speed(mm/sec)	250	250	250	250	250	200	120	95	50
Long Term Pressure Holding Speed(mm/sec)	60	60	60	60	60	50	35	25	12
Service Life Of Ball Screw	>15 Million Times								
Motor Power(kW)	0.4	0.75	1.5	1.75	2.5	5	5	7	7
Pressure Sensor Type	Strain Equation								
Pressure Sensor Measuring Range (kN)	±2.5	±6	±12	±25	±35	±70	±110	±170	±220
Pressure Sensor Type Measurement Accuracy (kN)	0.5% Rated Pressure								
Repetitive Positioning Accuracy(mm)	0.01								
Electric Cylinder Lubrication Method	Lubricating Grease								
Operating Temperature Range(°c)	Indoor Room Temperature								

Overall dimensions



• Switchback

MODEL	STROKE	A	B	C	D	E	F	G	H	O	P	S(EQS)	T	W	X
SPA.002.100	100	256	323.5	φ18±8	5	25	φ35	φ48	φ70	φ26	φ58	8*M4-8	8-M4-8	φ4-10	φ4-10
SPA.002.200	200	356	423.5	φ18±8	5	25	φ35	φ48	φ70	φ26	φ58	8*M4-8	8-M4-8	φ4-10	φ4-10
SPA.005.100	100	287.5	372	φ20±10	5	27	φ45	φ60	φ85	φ32	φ70	8*M5-10	8-M5-10	φ5-10	φ5-10
SPA.005.200	200	387.5	472	φ20±10	5	27	φ45	φ60	φ85	φ32	φ70	8*M5-10	8-M5-10	φ5-10	φ5-10
SPA.010.100	100	330.5	444	φ30±10	5	30	φ60	φ80	φ110	φ45	φ100	8*M5-10	8-M5-10	φ5-10	φ5-10
SPA.010.200	200	430.5	544	φ30±10	5	30	φ60	φ80	φ110	φ45	φ100	8*M5-10	8-M5-10	φ5-10	φ5-10
SPA.020.150	150	429.5	557	φ40±10	10	35	φ80	φ100	φ135	φ60	φ120	8*M6-12	8-M6-12	φ6-10	φ6-10
SPA.020.300	300	579.5	707	φ40±10	10	35	φ80	φ100	φ135	φ60	φ120	8*M6-12	8-M6-12	φ6-10	φ6-10
SPA.030.150	150	492	632	φ50±10	10	54.5	φ90	φ110	φ145	φ70	φ130	8*M8-16	8-M8-16	φ6-10	φ6-10
SPA.030.300	300	642	782	φ50±10	10	54.5	φ90	φ110	φ145	φ70	φ130	8*M8-16	8-M8-16	φ6-10	φ6-10
SPA.060.200	200	697.5	871	φ60±10	10	45	φ100	φ120	φ162	φ80	φ145	8*M10-20	8-M10-20	φ8-10	φ8-10
SPA.060.400	400	897.5	1071	φ60±10	10	45	φ100	φ120	φ162	φ80	φ145	8*M10-20	8-M10-20	φ8-10	φ8-10
SPA.100.200	200	646	842	φ70±10	10	50	φ135	φ165	φ200	φ100	φ180	8*M12-24	8*M12-24	φ10-12	φ10-12
SPA.100.400	400	846	1042	φ70±10	10	50	φ135	φ165	φ200	φ100	φ180	8*M12-24	8*M12-24	φ10-12	φ10-12
SPA.150.200	200	718	939	φ80±10	10	55	φ150	φ180	φ225	φ110	φ205	8*M14-28	8*M14-28	φ10-12	φ10-12
SPA.150.400	400	918	1139	φ80±10	10	55	φ150	φ180	φ225	φ110	φ205	8*M14-28	8*M14-28	φ10-12	φ10-12
SPA.200.200	200	859	1113.5	φ90±10	10	60	φ165	φ195	φ245	φ120	φ220	8*M16-32	8*M16-32	φ12-15	φ12-15
SPA.200.400	400	1059	1313.5	φ90±10	10	60	φ165	φ195	φ245	φ120	φ220	8*M16-32	8*M16-32	φ12-15	φ12-15