

Force

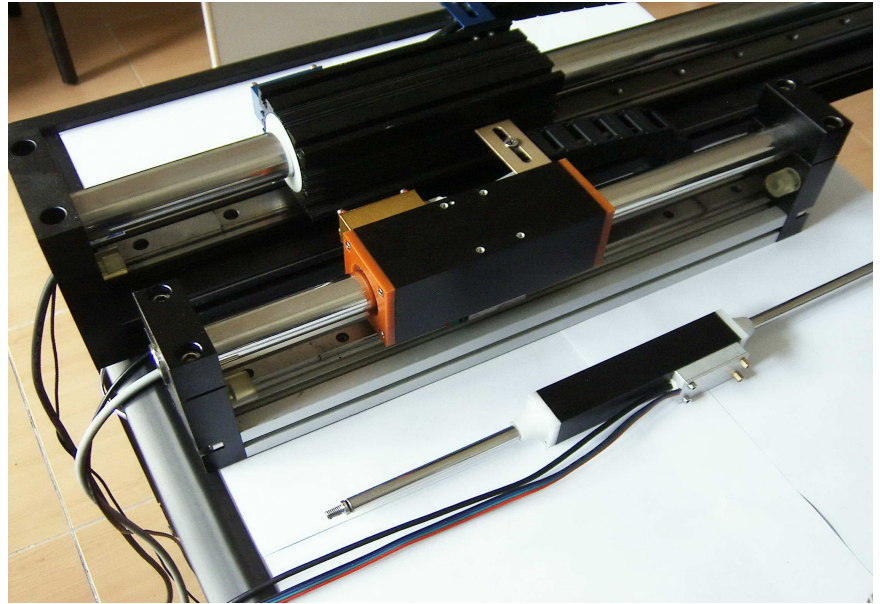
- Peak:17-500N
- Continuous:4-170N

Maximum Velocity

- Up to 5m/s

Built-in Feedback

- Can built-in position sensor
- Three differential sin wave signals displaced by 120 degrees or A quad B square wave . +5VDC supply.
- industry standard 1V pk-pk sin/cos signals is Optional.
- Maximum 4 micron resolution and 8 micron repeatability



Range of motion

- 5mm-1400mm

Dimensions

- 32 series forcer: W*H: 80*59mm Rod diameter: 32mm
- 25 series forcer: W*H: 54*54mm Rod diameter: 25mm
- 09 series forcer: W*H: 27*27mm Rod diameter: 9.5mm

Applications

- Packaging
- Material Handling
- Automated Assembly
- Bio-medical
- Semiconductor and Robot

The OEM advantage

- Reliable and cost-effective
- Flexible position control
- High speed and acceleration
- Clean, quiet operation
- No maintenance or adjustment

The ServoShaft Actuator and component is an optimal solution for industrial position control. Faster than a ballscrew with the clean reliability of a linear forcer, ServoShaft Actuator and component is a cost-effective alternative to air cylinders in applications requiring greater flexibility and control.

The ServoShaft Actuator and component incorporates an IP67 rated forcer and a sealed stainless steel shaft rod enclosing rare-earth magnets. Three models deliver a continuous force range of 4~170 N with peak forces up to 500 N . customized stroke lengths are available from 5~1400 mm.

The patented magnetic design of ServoShaft Actuator and component generates 8 micron repeatability and 400 micron accuracy from a non-contact, integral position sensor. No external encoder is required. Position output is Three differential sin wave signals displaced by 120 degrees or A quad B square wave . +5VDC supply. industry standard 1V pk-pk sin/cos signals is Optional.

For ServoShaft Actuator An internal dry bearing provides clean, quiet, maintenance-free performance. Life expectancy far exceeds typical ballscrew solutions.

The ServoShaft Actuator and component is ideal for push/pull/lift material handling, packaging and automated assembly applications. ServoShaft accepts a range of industry standard accessories for simple mechanical integration.

Flexible mid-stroke position control is simple with Technosoft's IBL3605 - a matched, self-tuning indexer complete with plug-and-play cabling. Simply select your ServoShaft model number and the system comes up tuned and ready to run. Clear diagnostics make system commissioning easy. Fill in the blanks to define position, velocity and acceleration.

Technosoft's IBL3605 interfaces easily to PLC's and features CAN, CANopen network connectivity.

Electrical specifications

32 series

		3204	3205	3206	3207	3208	3209	3210
Peak force	N	199.6	249.2	298.8	348.4	398	447.6	498.3
Continuous force	N	66.5	83.1	99.6	116.1	132.7	149.2	166.1
Peak current	A	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Continuous current	A	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Force constant	N/Arms	22.2	27.7	33.2	38.7	44.2	49.7	55.4
Back EMF constant	Vpk/m/s	18.1	22.6	27.1	31.6	36.1	40.6	45.2
Max speed	m/s	5	5	5	5	5	5	5
Peak acceleration	m/s/s	200	200	200	200	200	200	200
Max stroke	mm	1400	1383	1366	1349	1332	1315	1298
Forcer W*H*L	mm	80*59*119	80*59*136	80*59*153	80*59*170	80*59*187	80*59*204	80*59*221
Rod diameter	mm	32	32	32	32	32	32	32
Built-in sensor	um	5-25	5-25	5-25	5-25	5-25	5-25	5-25
Encoder	um	1-10	1-10	1-10	1-10	1-10	1-10	1-10
Inductance (phase to phase)	mH	0.8	1	1.2	1.4	1.6	1.8	2
Resistance (phase to phase)	omega	1.76	2.2	2.64	3.1	3.52	3.96	4.4
Pole pitch	mm	34	34	34	34	34	34	34

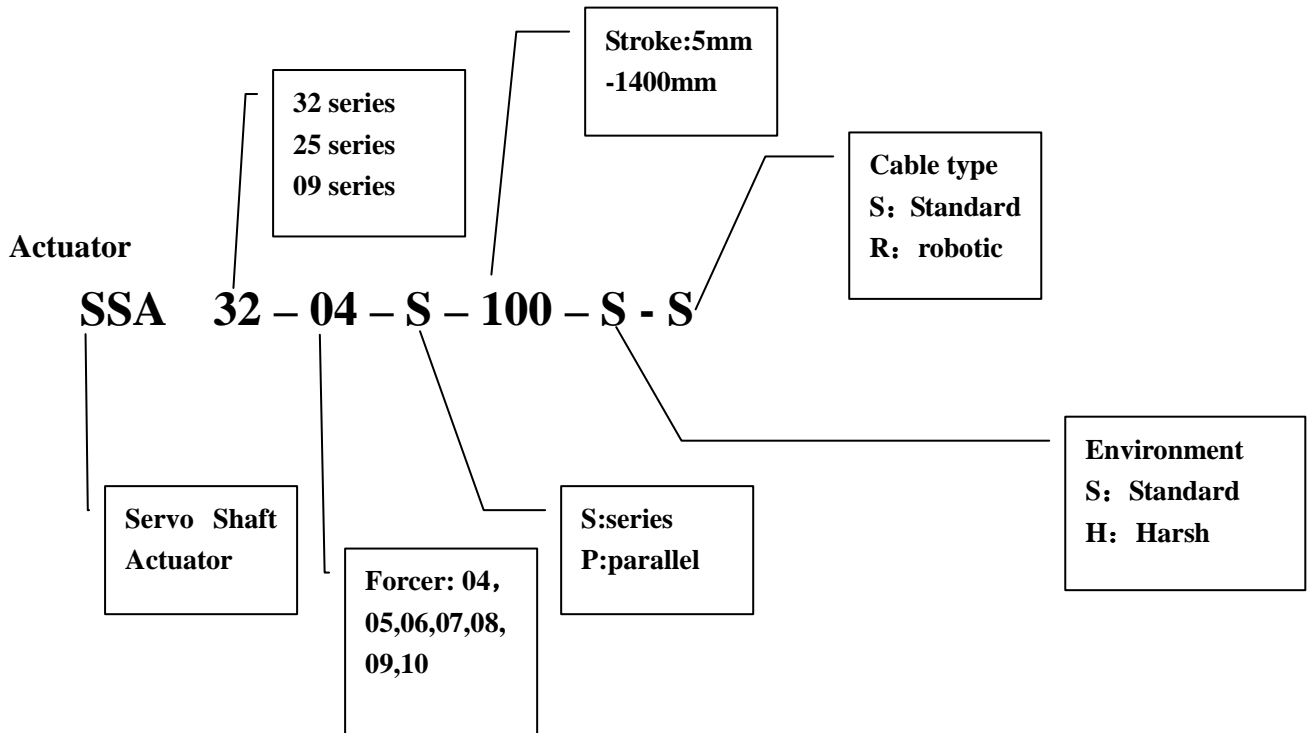
25 series

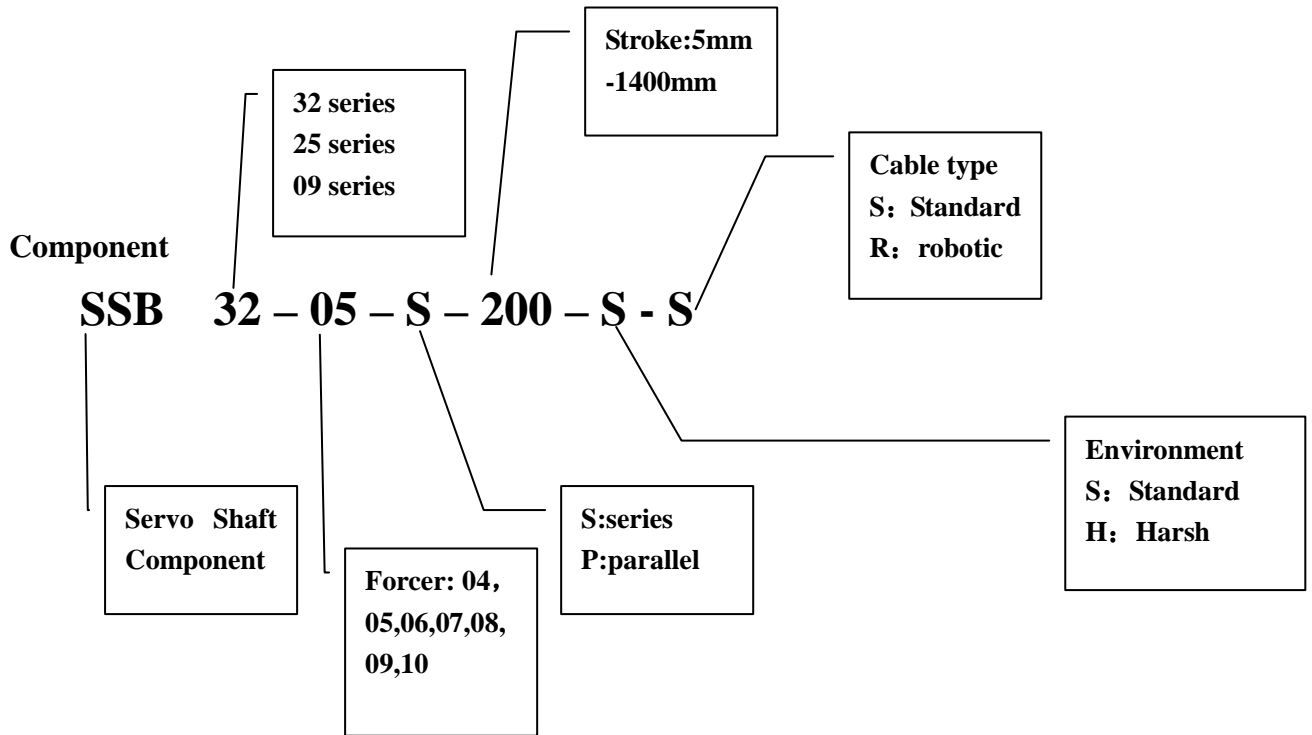
		2504	2505	2506	2507	2508	2509	2510
Peak force	N	80.9	101.1	121.3	141.5	161.7	181.9	202.1
Continuous force	N	27.0	33.7	40.4	47.2	53.9	60.6	67.4
Peak current	A	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Continuous current	A	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Force constant	N/Arms	10.8	13.5	16.2	18.9	21.6	24.3	27.0
Back EMF constant	Vpk/m/s	8.8	11	13.2	15.4	17.6	19.8	22
Max speed	m/s	5	5	5	5	5	5	5
Peak acceleration	m/s/s	100	100	100	100	100	100	100
Max stroke	mm	1100	1083	1066	1049	1032	1015	998
Forcer W*H*L	mm	53*53*119	53*53*136	53*53*153	53*53*170	53*53*187	53*53*204	53*53*221
Rod diameter	mm	25	25	25	25	25	25	25
Built-in sensor	um	5-25	5-25	5-25	5-25	5-25	5-25	5-25
Encoder	um	1-10	1-10	1-10	1-10	1-10	1-10	1-10
Inductance (phase to phase)	mH	0.64	0.8	0.96	1.12	1.28	1.44	1.6
Resistance (phase to phase)	omega	1.6	2	2.4	2.8	3.2	3.6	4
Pole pitch	mm	34	34	34	34	34	34	34

09 series

		0904	0905	0906	0907	0908	0909	0910
Peak force	N	16.8	21.0	25.2	29.4	33.6	37.8	42.0
Continuous force	N	5.6	7.0	8.4	9.8	11.2	12.6	14.0
Peak current	A	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Continuous current	A	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Force constant	N/Arms	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Back EMF constant	Vpk/m/s	3.3	4.1	4.9	5.7	6.5	7.3	8.1
Max speed	m/s	4	4	4	4	4	4	4
Peak acceleration	m/s/s	100	100	100	100	100	100	100
Max stroke	mm	1100	1083	1066	1049	1032	1015	998
Forcer W*H*L	mm	27*27*119	27*27*136	27*27*153	27*27*170	27*27*187	27*27*204	27*27*221
Rod diameter	mm	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Built-in sensor	um	5-25	5-25	5-25	5-25	5-25	5-25	5-25
Encoder	um	1-10	1-10	1-10	1-10	1-10	1-10	1-10
Inductance (phase to phase)	mH	0.29	0.36	0.43	0.51	0.58	0.65	0.72
Resistance (phase to phase)	omiga	1.6	2	2.4	2.8	3.2	3.6	4
Pole pitch	mm	30	30	30	30	30	30	30

Order information





Spare part

