

Force

- Peak:42-105N
- Continuous:14-35N

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-1000mm

Dimensions

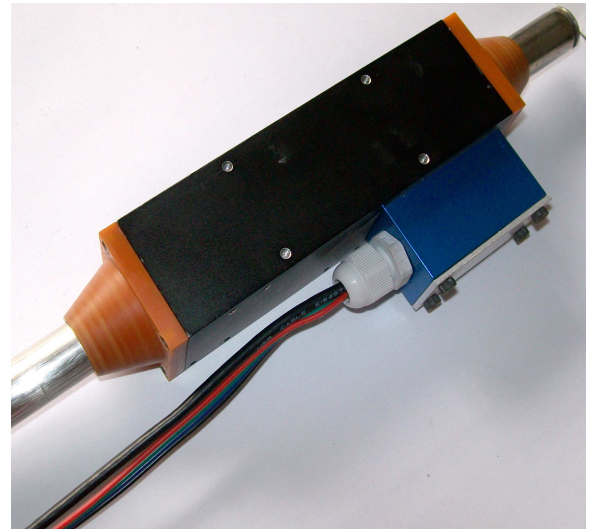
- 16 series forcer: W*H: 38*38mm Rod diameter: 16mm

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. This model deliver a continuous force range of 14~35 N with peak forces up to 105 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

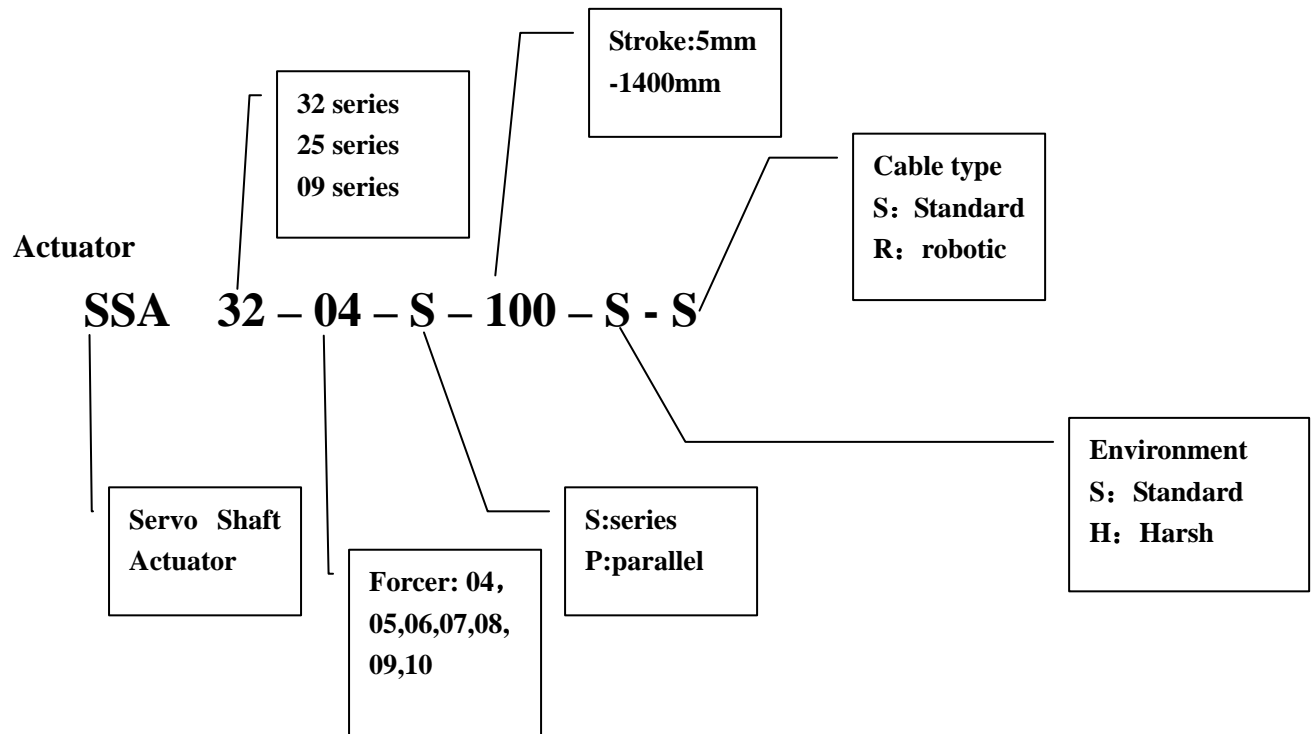
16 series

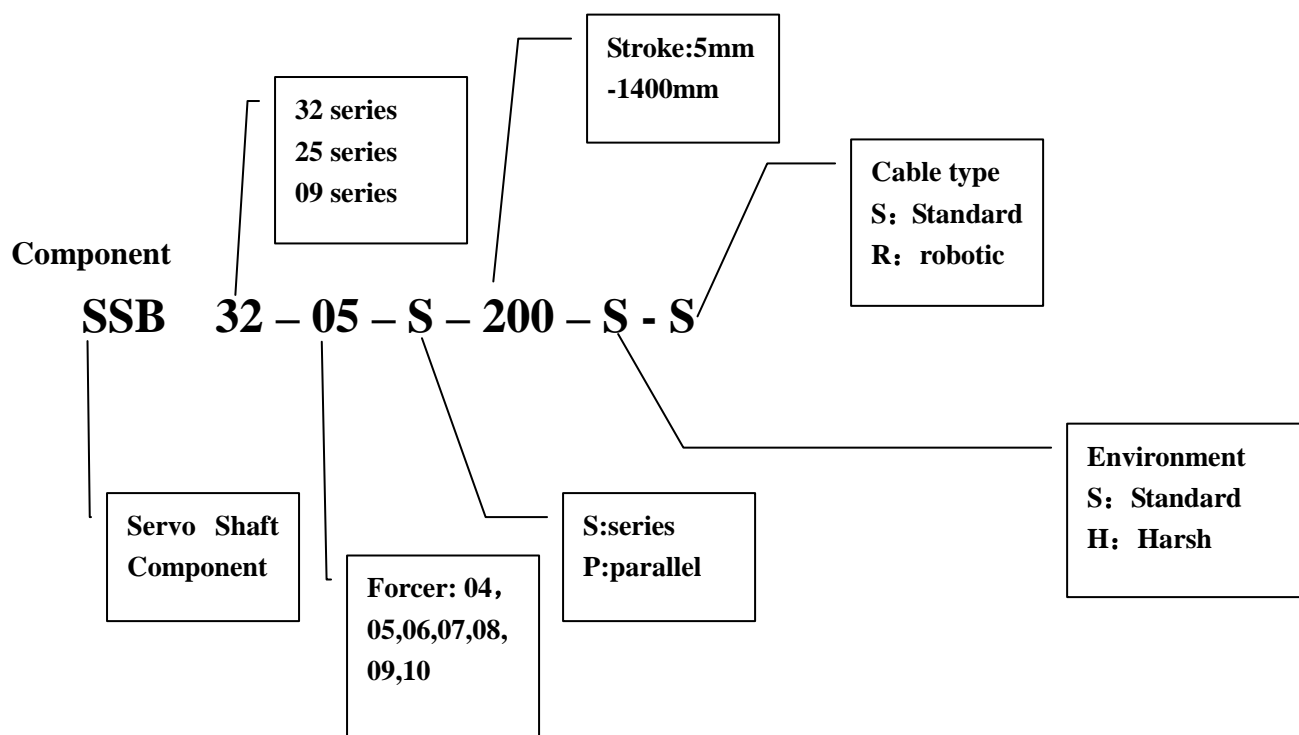
		1604	1605	1606	1607	1608	1609	1610
Peak force	N	42.0	52.5	63.0	73.5	84.0	94.5	105.0
Continuous force	N	14.0	17.5	21.0	24.5	28.0	31.5	35.0
Peak current	A	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Continuous current	A	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Force constant	N/Arms	10.0	12.5	15.0	17.5	20.0	22.5	25.0
Back EMF constant	Vpk/m/s	8.1	10.2	12.2	14.2	16.3	18.3	20.3
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	38*38*109	38*38*126	38*38*143	38*38*160	38*38*177	38*38*194	38*38*211
Rod diameter	mm	16	16	16	16	16	16	16

Servo Shaft 16 series Actuator and Component

Built-in sensor	um	5-25	5-25	5-25	5-25	5-25	5-25	5-25
Encoder	um	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10
Inductance (phase to phase)	mH	0.8	1	1.2	1.4	1.6	1.8	2
Resistance (phase to phase)	omiga	5.6	7	8.4	9.8	11.2	12.6	14
Pole pitch	mm	30	30	30	30	30	30	30

Oder information





Spare part

