

**Force**

- Peak:17-42N
- Continuous:6-14N

**Maximum Velocity**

- Up to 3m/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-500mm

**Dimensions**

- 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. This model deliver a continuous force range of 6~14 N with peak forces up to 42 N . customized stroke lengths are available from 5~500 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

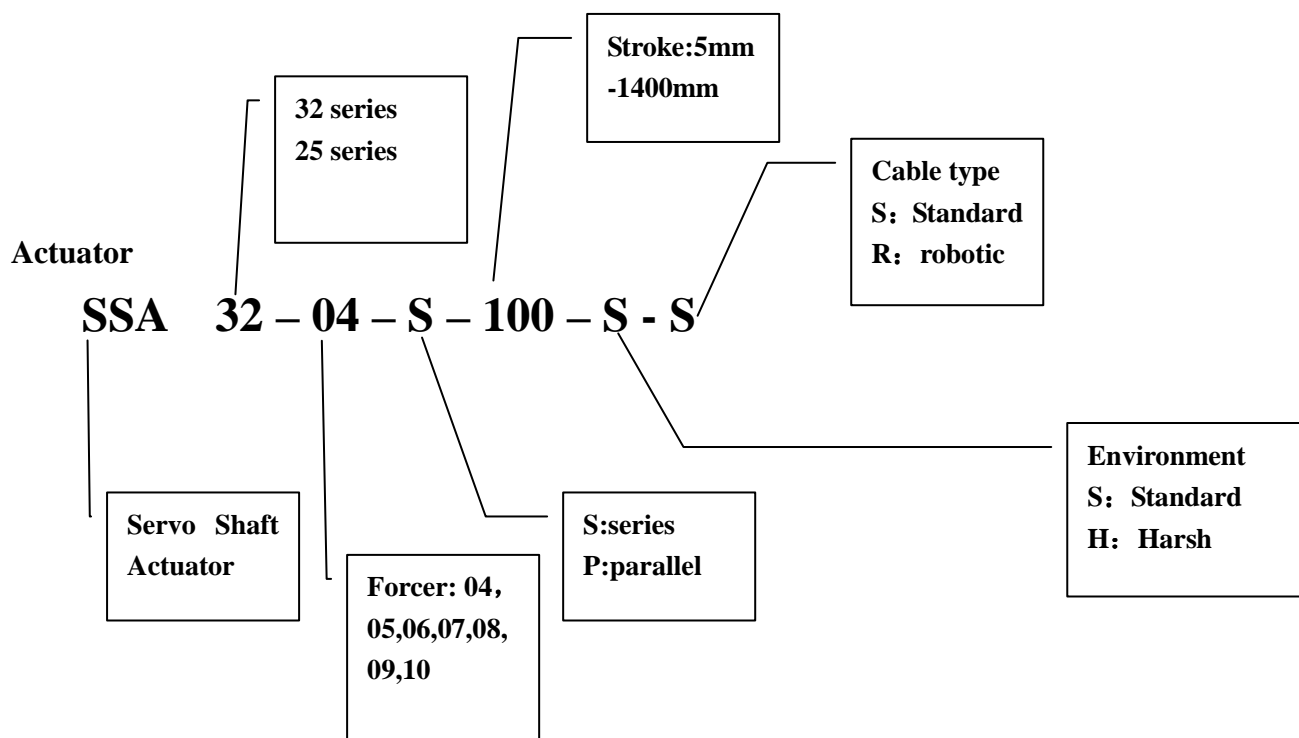
## 09 series

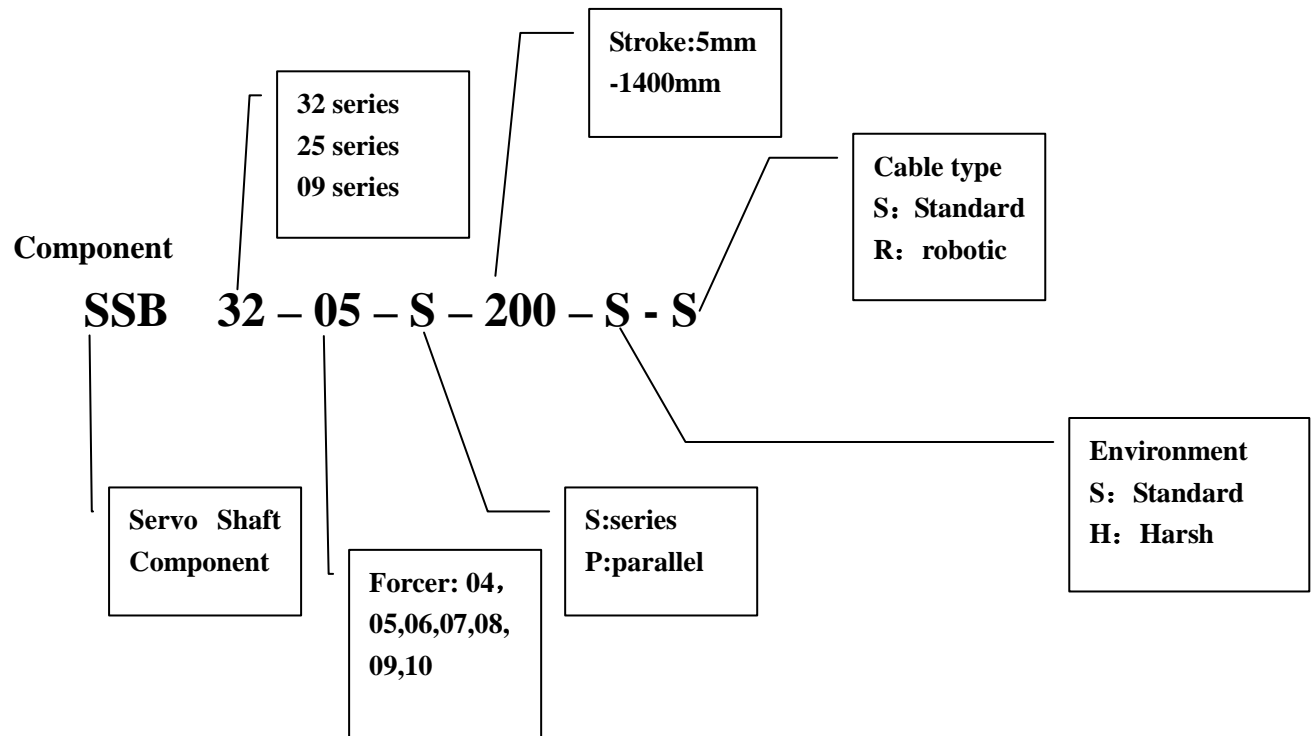
|                    |         | 0904      | 0905      | 0906      | 0907      | 0908      | 0909      | 0910      |
|--------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Peak force         | N       | 16.8      | 21.0      | 25.2      | 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*109 | 27*27*126 | 27*27*143 | 27*27*160 | 27*27*177 | 27*27*194 | 27*27*211 |
| Rod diameter       | mm      | 9.5       | 9.5       | 9.5       | 9.5       | 9.5       | 9.5       | 9.5       |

## Servo Shaft 09 series Actuator and Component

|                                |       |      |      |      |      |      |      |      |
|--------------------------------|-------|------|------|------|------|------|------|------|
| 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<br>(phase to phase) | mH    | 0.29 | 0.36 | 0.43 | 0.51 | 0.58 | 0.65 | 0.72 |
| Resistance<br>(phase to phase) | omega | 1.6  | 2    | 2.4  | 2.8  | 3.2  | 3.6  | 4    |
| Pole pitch                     | mm    | 30   | 30   | 30   | 30   | 30   | 30   | 30   |

### Oder information





### Spare part

