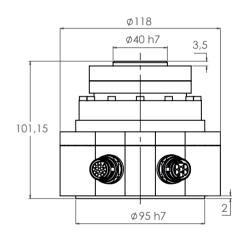
SVTM 78 Series Mechatronic Joint





A robotic joint with an integrated ABS encoder, brushless motor, hollow shaft, and zero-backlash gearbox is a compact and precise actuator unit designed for high-performance robotics. The brushless motor provides efficient and smooth motion, while the ABS encoder ensures accurate position feedback. The hollow shaft allows for wiring or component integration through the joint. The zero-backlash gearbox eliminates mechanical play, resulting in highly accurate and repeatable movement, ideal for robotics applications requiring high precision and minimal latency.



SVTM 78-25-Y/19-BIS10/HG20-50

Motor Data

Torque peak: 2.93Nm
Torque nominal: 1.38Nm
Nominal voltage: 600Vdc
Nominal speed: 23000RPM
Max input speed gearbox: 6000RPM
Nominal speed at 48Vdc: 3300RPM

Encoder Data

Protocol: BiSS-C Resolution: 19bits

Harmonic Gearbox

Ratio 50:1 Zero Backlash Hollow shaft Ø12mm

Sealing IP65

Output Torque

Torque peak: 73Nm Torque nominal: 33Nm

Available Option

Motor with torque peak up to 10.85Nm* and nominal torque up to 4.41Nm*

Encoder with resolution up to 21 bits and protocol BiSS, SSI, Incremental, SPI and Asynchronous

Gearbox option ratio 50, 100 and 120:1

* Increasing of torque may increase total length of the product



Customizable



High accuracy and high resolution



Hollow shaft



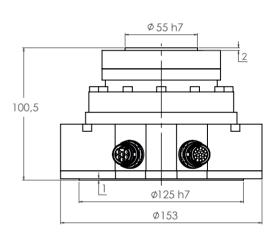
IP65

SVTM 105 Series Mechatronic Joint

servotecnica



A robotic joint with an integrated ABS encoder, brushless motor, hollow shaft, and zero-backlash gearbox is a compact and precise actuator unit designed for high-performance robotics. The brushless motor provides efficient and smooth motion, while the ABS encoder ensures accurate position feedback. The hollow shaft allows for wiring or component integration through the joint. The zero-backlash gearbox eliminates mechanical play, resulting in highly accurate and repeatable movement, ideal for robotics applications requiring high precision and minimal latency.



SVTM 105-17-Z/19-BIS10/HG25-50

Motor Data

Torque peak: 3.3Nm
Torque nominal: 1.4Nm
Nominal voltage: 325Vdc
Nominal speed: 16500RPM
Max input speed gearbox: 5500RP

Max input speed gearbox: 5500RPM Nominal speed at 48Vdc: 3300RPM

Encoder Data

Protocol: BiSS-C Resolution: 19bits

Harmonic Gearbox

Ratio 50:1 Zero Backlash Hollow shaft Ø20mm

Sealing IP65

Output Torque

Torque peak: 115Nm Torque nominal: 49Nm

Available Option

Motor with torque peak up to 28.4Nm and nominal torque up to 12Nm and 600Vdc wining

Encoder with resolution up to 22 bits and protocol BiSS, SSI, Incremental, SPI and Asynchronous

* Increasing of torque may increase total length of the product



Customizable



High accuracy and high resolution



Hollow shaft



IP65