Servotak®

PRECISION GEARBOXES
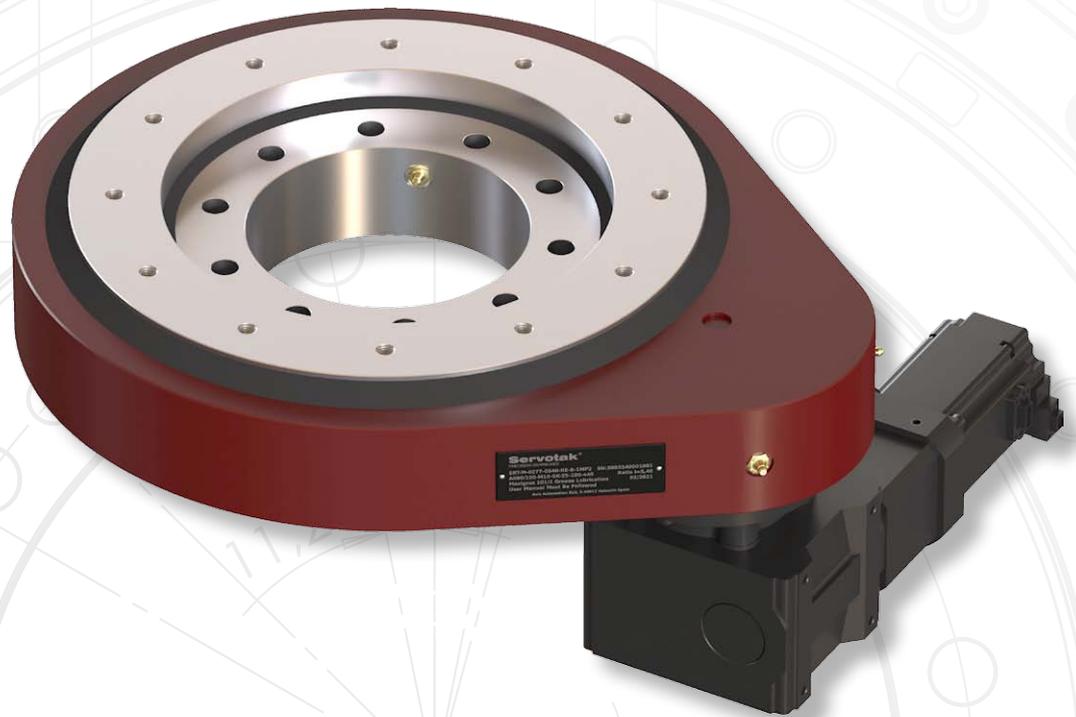
SRT-M-0277-1M

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Dimensions

Φ324.00

Φ277.00 (Rotating)

Φ230.00H8I5

12.00

76.00

Φ145.00

Φ146.50H8I5

Servogearbox

Servomotor

Φ382.00

2× Φ10H7I20*

2× Φ10H7*

12× M12I20 / 30°

10× Φ14.00 / 36°

Φ180.00

* On Request

272.00
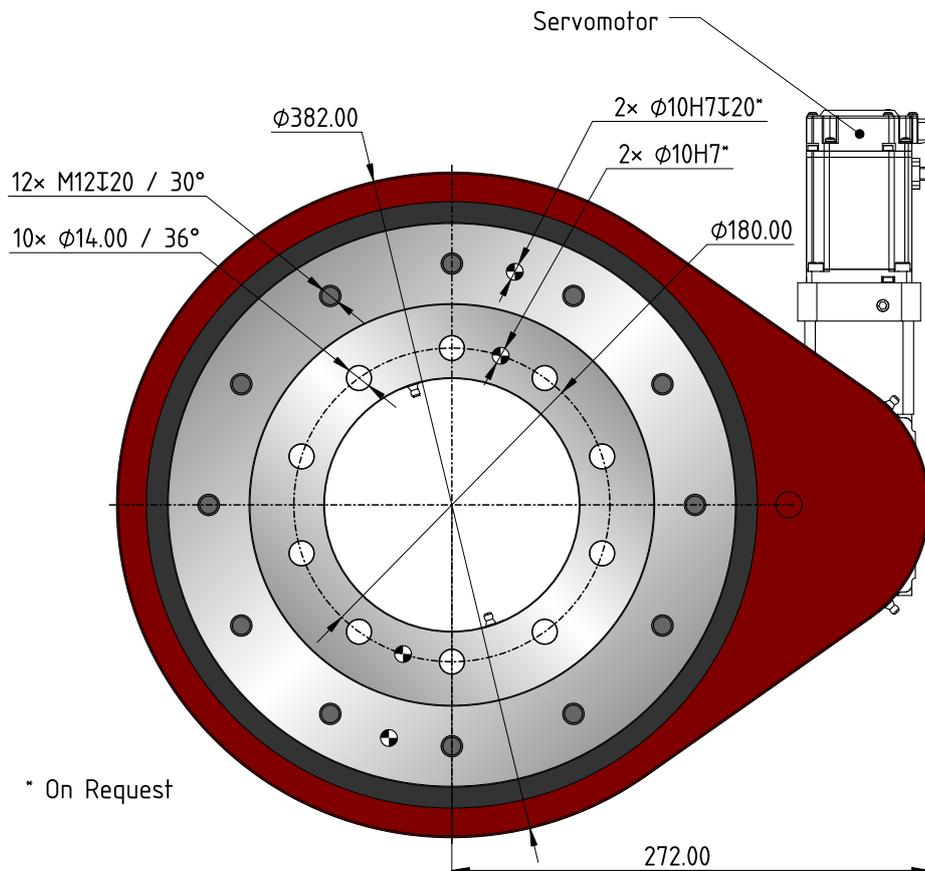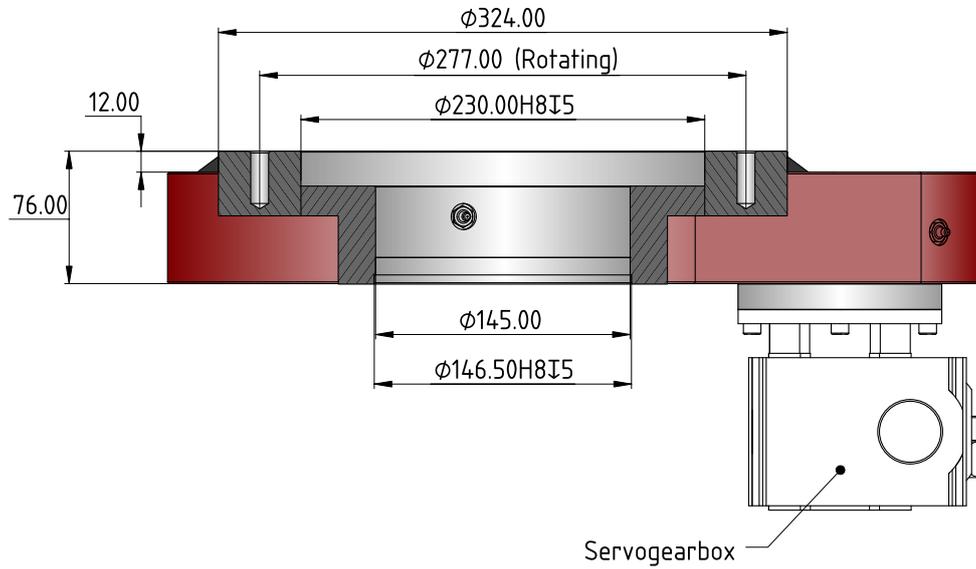
Subject to technical improvements without prior notice.

SRT-M-0277-1M

Technical Data

Transmission		Standard Precision (P2)	High Precision (P1)
Turning Direction		Programmable, reversible	
Internal Ratio		5.4:1	5.4:1
Backlash	arcmin	≤4	≤1.9
Moment of Inertia	kg·m^2	0.015	0.015
No Load Starting Torque	N·m	8	8
Efficiency [1]	%	91	92
Operating Temperature	°C	-15 to +50	-15 to +50
Mass (without Gearmotor)	kg	50	50

(1) This value remains constant and is independent of output torque and input speed.

Output Torque Capacity as per DIN-3990
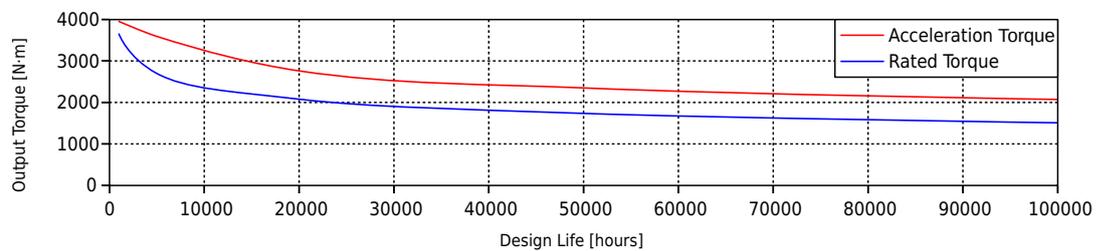
Curves for Standard Precision (P2) SRT actuators.

Gearbox	Total Transmission Ratio
SVS (Right Angle)	40:1 to 540:1
MQ (Right Angle)	27:1 to 442:1
MA (Right Angle)	21:1 to 2106:1
SG (Coaxial)	16:1 to 5400:1

Bearing Load Capacity		
Basic Static Axial Load Rating C_{0a} [1]	N	606319
Basic Dynamic Axial Load Capacity C_a [2]	N	165709
Basic Static Radial Load Capacity C_{0r} [1]	N	278099
Basic Dynamic Radial Load Capacity C_r [2]	N	164097

(1) Values calculated as per ISO-76 and ISO/TR-10657.
(2) Values calculated as per ISO-281 and ISO/TR-1281-1.

Bearing Load Capacity
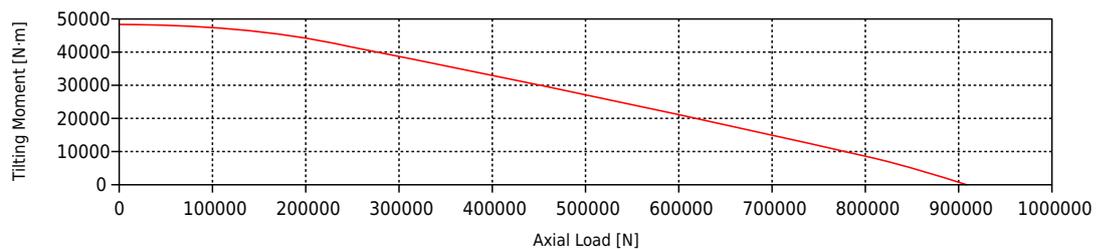
Limiting Load Diagram calculated with a Static Safety Factor SF=1. Values calculated at the bearing raceway, for a supported axial load. Support structure must be sufficiently rigid, and must be machined and level. The operating load point must be under the curve, and a service factor depending on machine type and desired service life must be applied.

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SRT 20260210-1310

19