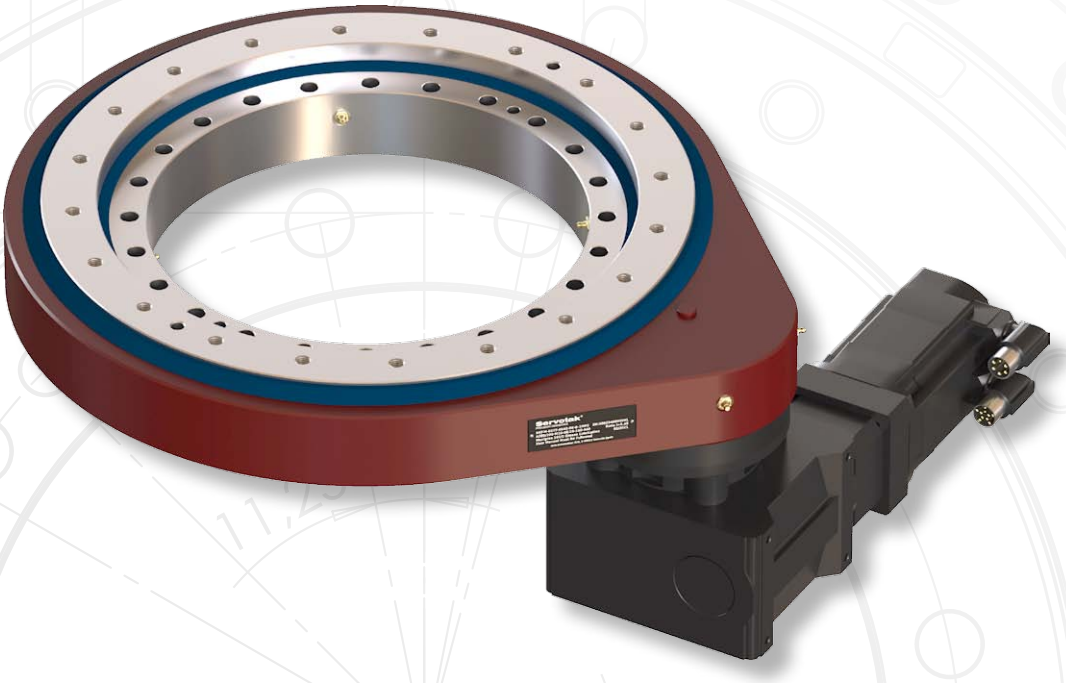
Servotak®

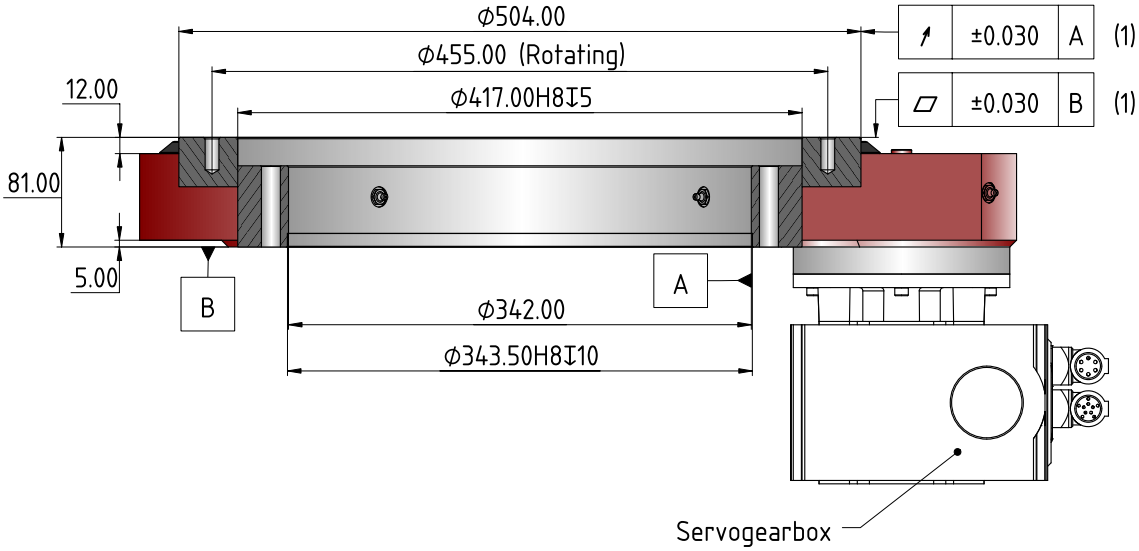
PRECISION GEARBOXES

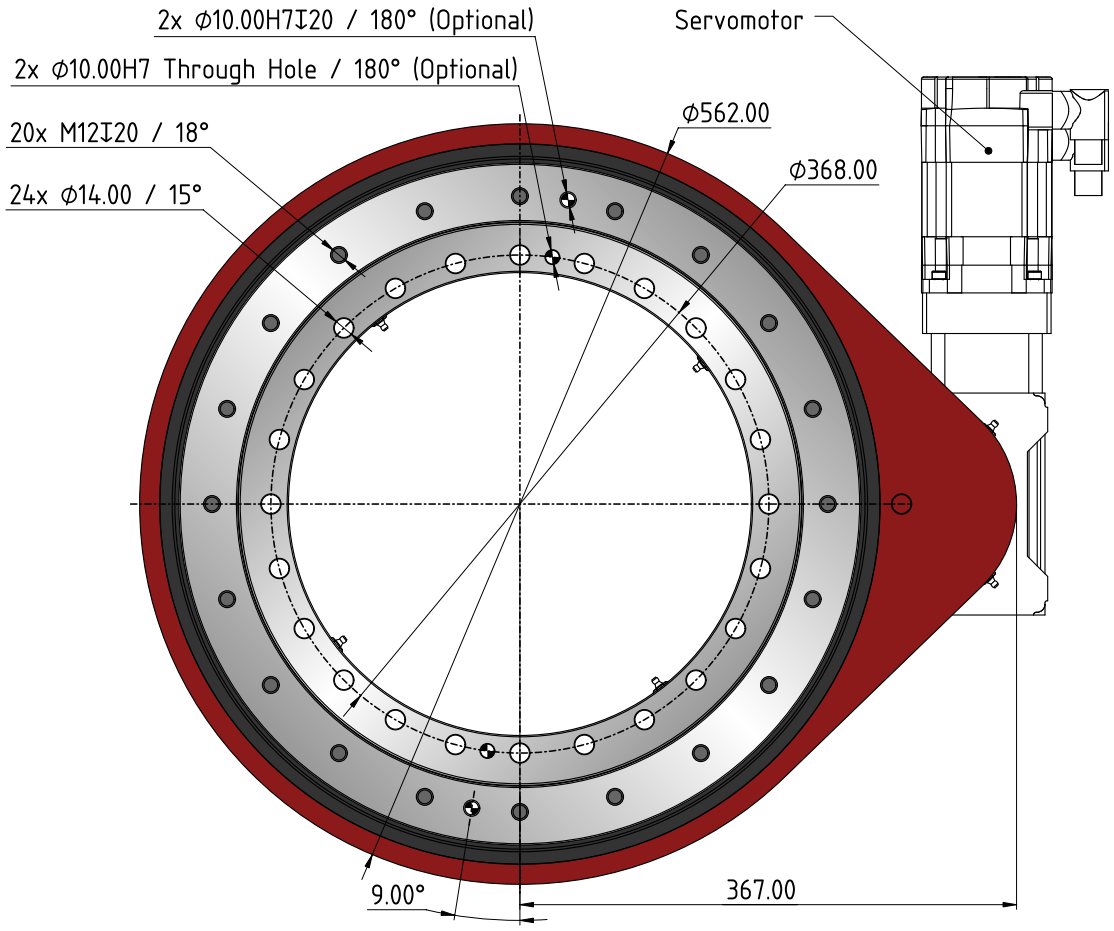


SRT-M-0455-1M

SRT-M-0455-1M

Dimensions





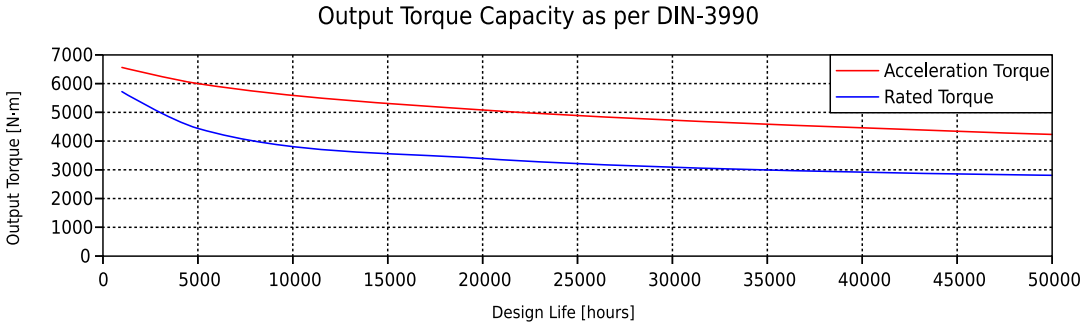
(1) Values valid while supported by a precision machined surface on a support structure with sufficient stiffness.
Subject to technical improvements without prior notice.

SRT-M-0455-1M

Technical Data

Transmission		Standard Precision (P2)	High Precision (P1)
Turning Direction		Programmable, reversible	
Internal Ratio		8.4:1	8.4:1
Backlash	arcmin	≤2.18	≤1.50
Moment of Inertia	kg·m^2	0.036	0.036
Efficiency (1)	%	88	90
No Load Starting Input Torque	N·m	3.10	3.10
Operating Temperature	°C	-15° to +40	-15° to +40
Mass (without Gearmotor)	kg	76	76

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

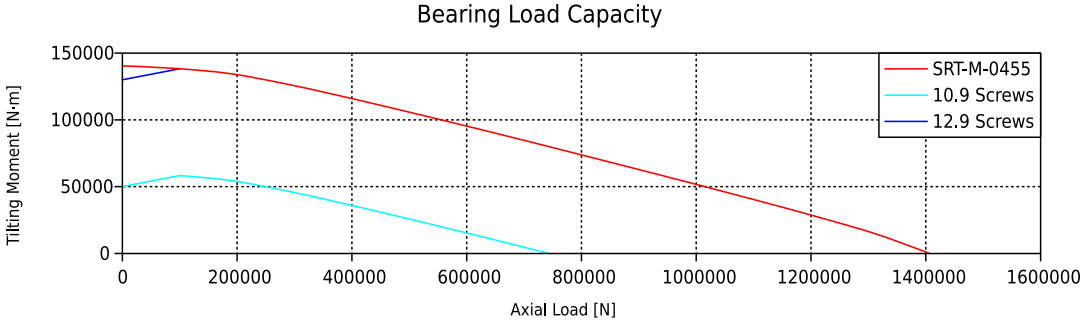


Curves for Standard Precision (P2) SRT actuators.

Gearbox	Total Transmission Ratio
SVS (Right Angle)	63:1 to 840:1
MQ (Right Angle)	42:1 to 697:1
MA (Right Angle)	33:1 to 3276:1
SG (Coaxial)	25:1 to 8400:1

Bearing Load Capacity		
Basic Static Axial Load Rating C_{0a} (1)	N	1121150
Basic Dynamic Axial Load Capacity C_a (2)	N	206381
Basic Static Radial Load Capacity C_{0r} (1)	N	514381
Basic Dynamic Radial Load Capacity C_r (2)	N	203799

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



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.