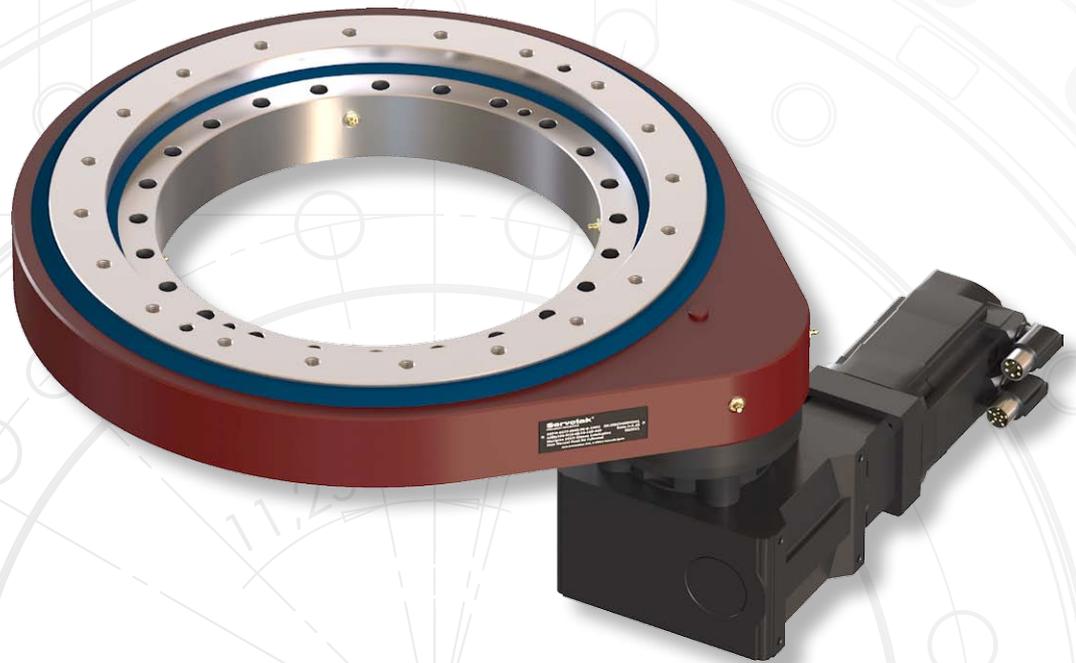


2x  $\varnothing 10$  H8 / 20 / 180

12x  $\varnothing M10$  T 20 / 200  
**Servotak**<sup>®</sup>  
PRECISION GEARBOXES



16x  $\varnothing 10,50$

45°

2x  $\varnothing 8$  H7

**SRT-M-0455-1M**



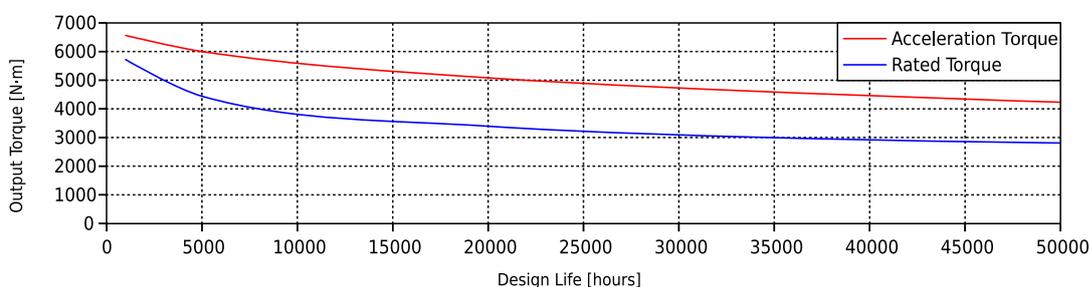
# SRT-M-0455-1M

## Technical Data

Transmission		Standard Precision (P2)	High Precision (P1)
<b>Turning Direction</b>		Programmable, reversible	
<b>Internal Ratio</b>		8.4:1	8.4:1
<b>Backlash</b>	arcmin	≤2.18	≤1.50
<b>Moment of Inertia</b>	kg·m <sup>2</sup>	0.036	0.036
<b>Efficiency <sup>(1)</sup></b>	%	88	90
<b>Operating Temperature</b>	°C	-15° to +40	-15° to +40
<b>Mass (without Gearmotor)</b>	kg	77	77

(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.

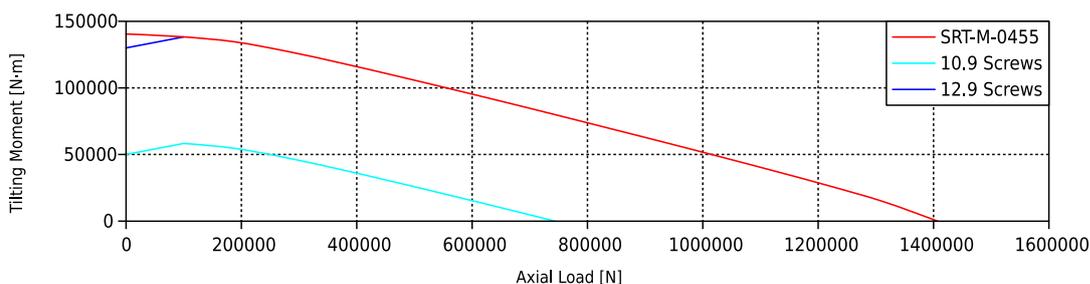
Gearbox	Total Transmission Ratio
<b>SVS (Right Angle)</b>	63:1 to 840:1
<b>MQ (Right Angle)</b>	42:1 to 697:1
<b>MA (Right Angle)</b>	33:1 to 3276:1
<b>SG (Coaxial)</b>	25:1 to 8400:1

Bearing Load Capacity		
<b>Basic Static Axial Load Rating <math>C_{0a}</math> <sup>(1)</sup></b>	N	1121150
<b>Basic Dynamic Axial Load Capacity <math>C_a</math> <sup>(2)</sup></b>	N	206381
<b>Basic Static Radial Load Capacity <math>C_{0r}</math> <sup>(1)</sup></b>	N	514381
<b>Basic Dynamic Radial Load Capacity <math>C_r</math> <sup>(2)</sup></b>	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.

### 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.