

## Technical Data - TRB<sup>3</sup>

<b>Normal force range</b>	up to 60 N
<b>Normal force resolution</b>	- (dead weight)
<b>Friction force range</b>	up to 20 N (5 N option)
<b>Friction force resolution</b>	0.06 mN (0.015 mN option)
<b>Rotating movement:</b>	
<b>Speed</b>	0.2 rpm to 2000 rpm (600 rpm option)
<b>Radius</b>	up to 40 mm
<b>Maximum torque</b>	450 mN.m
<b>Linear reciprocating movement1):</b>	
<b>Stroke length</b>	up to 60 mm
<b>Speed</b>	up to 370 mm/s
<b>Frequency</b>	0.01 Hz to 10 Hz
<b>Rotational reciprocating movement2):</b>	
<b>Speed</b>	0.2 rpm to 2000 rpm (600 rpm option)
<b>Frequency</b>	0.01 Hz to 7 Hz
<b>Angular amplitude</b>	±5° to ±150°
<b>Angular resolution</b>	0.1°
<b>Options:</b>	
<b>Online wear depth</b>	-2 mm to 2 mm
<b>Heating capability</b>	up to 450 °C in dry condition up to 150 °C in liquid condition
<b>Electrical contact resistance</b>	up to 1000 Ohms
<b>Vacuum level</b>	down to 10 <sup>-7</sup> mbar
<b>Relative humidity level</b>	15 % to 95 %