






	<p>HERO™ vibration controller incl. signal conditioners</p>	<h2>~ Typical DUTs</h2> <ul style="list-style-type: none"> • gyro transducers (angular velocity) • Inertial Measurement Units (IMU) • rotation rate measuring systems <p>* DUT = Device Under Test</p>
	<p>CS Q-LEAP™ software</p> <ul style="list-style-type: none"> • sine calibration • vibration measurement • vibration generation • more on demand 	
	<p>DRE-01 dynamic rotation exciter with internal reference standard BN-43, APS 0109 zero position controller and power amplifier PA 500 DM</p>	

<h2>✓ Standards</h2> <ul style="list-style-type: none"> • ISO 17025: General requirements for the competence of testing and calibration laboratories

★ Key features

	<p>Calibration system for dynamic angular velocity in the frequency range 1 Hz ... 200 Hz</p>
	<p>Traceable to PTB (German National Metrology Laboratory)</p>
	<p>Calibration of angular velocity sensors and measurement systems</p>
	<p>Integrated sensor database</p>
	<p>Integrated software for the generation of calibration certificates (print, PDF,...) Easy data exchange with applications like ERP systems or measuring equipment databases</p>



Torque, max. (sine peak) ¹⁾	0.95 Nm
Frequency range ²⁾	1 Hz...200 Hz - traceable range for calibration > 200 Hz... 5 kHz - extended range for testing purposes
Angle, max. (peak - peak) ³⁾	30°
Angular velocity, max. (sine peak) ¹⁾	5 300 °/s
Angular acceleration, max. (sine peak) ¹⁾	2 500 000 °/s ²
Mass moment of inertia of bare table	22 kg · mm ²
Mass moment of inertia of payload, max.	400 kg · mm ²
Payload, max.	0.5 kg
Centrifugal force due to unbalance, max.	1.5 N

Frequency range		Weight of DUT	Expanded measurement uncertainty ⁴⁾ magnitude ⁵⁾ / phase ⁶⁾	Excitation amplitude (Peak value)	
from	to			min.	max. ⁷⁾ (Angle, rate of rotation, angular acceleration)
1 Hz	200 Hz	up to 200 g	1.5 % / 1.5°	1.0 °/s	Rotation angle: 30° Angular velocity: 5300 °/s Angular acceleration: 2.5 E ⁶ °/s ²

All specifications are at a temperature of +23 °C (±2 °C) and a relative humidity of 30 %... 75 % unless otherwise specified.

- 1) Intervals of 5 minutes
- 2) Frequency range without mounting table
Frequency range with mounting: 1 Hz... 4.5 kHz; with internal reference standard: 1 Hz... 2 kHz
- 3) Recommended operation range peak-peak; mechanical stops at 40° peak-peak
- 4) Determined in accordance with GUM (ISO Guide to the Expression of Uncertainty in Measurement, 1995) with k = 2 (coverage factor) for an ideal test object (additional allowances will need to be estimated for other, non-ideal test objects)
- 5) Data applicable to electric sensor signals ≥ (1 mV or 1 pC)
- 6) Data only valid in conjunction with the PHASE option
- 7) Maximum excitation without test object

