



Damper and Spring Testing Equipment

Crank-type Sine Wave Dynos

RD2

- * 2HP
- * 50mm
- * 6 kN+
- * 0.8 m/sec

RD3

- * 3HP
- * 50mm
- * 9 kN
- * 1.0 m/sec

RD5

- * 5HP
- * 50mm
- * 11.5 kN+
- * 1.0+ m/sec

RD7.5

- * 7.5HP
- * 160mm
- * 20kN
- * 3.0 m/sec

RD10

- * 10HP
- * 160mm
- * 22.5 kN.
- * 3.0+ m/sec

Includes:
Variable speed
Computer controlled
Multiple strokes
CTW Probe© Software

Custom options
available

Industries:
Racing
Automotive
Service
R&D
Scooter
Mountain Bike
Motorcycle
4x4



RD7.5



RD3

Fully Automated - End of Line Testing



RD10 EOL

End of Line Testing

Fully automated testing with CTW's crank-type dynamometer for End of Line Pass/Fail Testing and QA

- * QR code reader
- * Database creation
- * Batch Testing
- * Pass / Fail Testing
- * Automated grippers
- * Automated crossbar position
- * PLC operation
- * 50 second cycle times
- * Rod Force and PVP based Tests
- * Programmable to match QR code
- * Quick change fixturing



SR17 &
Coil-over addition

SR17 Spring Rater

Constant velocity electric linear actuator provides precise spring testing.

- * up to 20kN
- * 425 mm of travel
- * Constant velocity input
- * Rate graphs
- * Save, Overlay and re-call data
 - * Springs
 - * Coil-over
 - * Forks
- * Elastomers and bump stops
 - * Spring smashing

CTW Linear Actuators

LA8 and LA10 Series

High performance electric linear actuators for advanced testing of dampers, forks and more.

- * Stroke ranges from 200, 250 mm and up to 450 mm
- * Velocities over 5.0 m/sec with options for 10+ m/sec
- * Forces based on machine of 9kN, 18kN, 27kN and more
 - * High frequency performance over 100 Hz
 - * Sine wave and constant velocity - triangle
- * Custom wave ability including track data playback
 - * Lab based and mobile versions
 - * Low Noise options <40 dB
 - * HIL Hardware in the Loop
 - * Many more options available



LA410 w Enclosure

About CTW

CTW Automation has carried on the legacy of Roehrig Engineering by moving forward with new products, designs, additional features, and advanced technology.

CTW designs, manufactures and sells a complete line of crank-type damper dynos (RD Series) based on a scotch-yoke design to develop a pure and simple sine wave input every time.

CTW also manufactures an exceptional line of electric linear actuators (LA Series) that utilize the finest ironless motors in the industry.

Our CTW Probe Software drives all of our machines allowing for sharing across platforms.

It is modern and user friendly for all levels of engineering projects needed to characterize dampers, forks and springs.

Industries include:

Automotive	OEM	Racing	Motorcycles	Mountain Bikes	Scooters
Off-Road	4x4	Side by Side	Rally	Stadium Trucks	
Snow Mobiles	Helicopters	Trains	Military	Prosthetics	
	Solar Panels	Steering Systems			

Contact

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