INSTRON
The difference is measurable

DAMPER TEST SYSTEMS
BI-7080

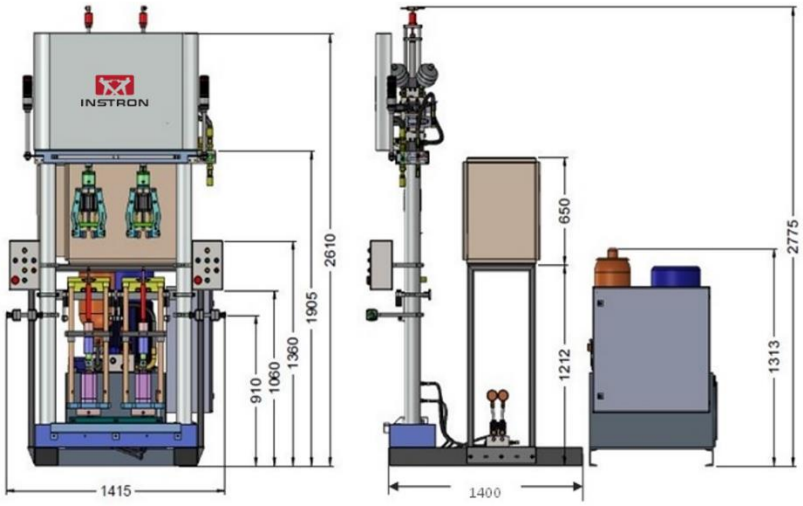
The BI-7080 is the industry's first high productivity shock absorber / strut / front-fork test system specially designed for use on damper production lines. This damper test system is used to ensure that assembled parts meet specified performance specifications. It is the result of over seven years of R&D with a focus on harmonizing production line test requirements for 2, 3 and 4-wheeler suspension components. Individual features of the damper test system have been tested and proven over this period by all major shoxproducers across the country. Practically every shock absorber and strut produced in the country is tested on our Stroker before being packed for shipment.

FEATURES

- Asynchronous dual-station operation. Doubles productivity and provides ready cross reference on test results
- Compact single footprint packaging. Fully integrated system Simply connect mains and compressed air to operate system. Ease of relocation on shop floor
- Fully hard-piped hydraulics. No flexible hosing. Built in air-cooling. No water connection required
- Proprietary low noise, servo-controlled pump for energy efficiency. Down to about 40% of most conventional pumps
- All electricals and electronics housed in dust proof air-conditioned enclosure
- Tooling suitable for 2, 3 and 4-wheeler parts
- Configurations available from 8 to 25 kN dynamic rating and from 0.005 to 3.5 m/s velocity rating
- Contamination insensitive servo-hydraulics with readily available COTS spares
- Pneumatic tooling with full 3-degree rotational freedom at both ends for self-alignment
- Quick change jaw faces and spacers to switch between parts
- Built-in hydraulic press-cum-hold down assembly to perform rod-assembly insertion as well as to test unsealed parts
- Low-force "bull-dog" top grip that will retain top end without damage while resisting applied tensile and compressive damping force.
- Top and bottom end tooling to suit threaded and eye type mounts as well as custom bottom tooling to suit variety of struts and front forks.
- Optional sensors to detect complete seal insertion and to detect unsealed parts.
- Optional sensors to detect part presence and part removal to avoid duplicate test

WHY CHOOSE INSTRON?

1. Two shock absorbers tested in one go, increases productivity
2. Use of direct drive servovales which are virtually insensitive to contamination, easily repairable and available from multiple vendors
3. Energy efficient green pumps – Our pumps deliver only the required amount of oil at any given instant as we control the speed of rotation of the motor. This results in at least 40% savings in energy consumption
4. Use of noise free, one micron resolution linear encoders for stroke measurement and control
5. Use of self-aligning grips – Ideal for use in a production environment where a shock absorber spends 7-20 seconds on the machine leaving no time for proper alignment of the part being tested



Model		BI-7081DS BI-7081SS	BI-7082DS BI-7082SS	BI-7083DS BI-7083SS	BI-7084SS BI-7084DS
Dynamic Load Capacity	kN	5	10	15	25
Total Actuator Stroke	mm	150/200/250			
No. of Columns		2			
No. of Stations		Dual Station Single Station			Single
Speed Rating	m/s	0.005 to 1.5			
Column Clearance	mm	780			
*Daylight Opening	mm	1575			
Electric Supply		380/400/415 VAC, 3 Ph, 50/60 Hz			
Max. Frame Weight	kg	650 500			500

NOTE

Please refer to individual brochures for information on the selected power packs & accessories.
Custom solutions available
CE certification on Demand
Specifications are subject to change without prior notice

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