

8x8 Independent Chassis Dynamometer

for endurance, emissions, fuel economy and performance testing of heavy duty vehicles



- Expansion possible beyond 8x8 configuration
- Exceeds International legislation for Performance and accuracy
- Infinitely adjustable wheel based positions
- Modular design
- Clean power IGBT AC drive technology
- Flexible restraint systems for a wide range of vehicles
- Data acquisition and monitoring system
- Designed for heavy duty commercial vehicles
- Low maintenance and lifecycle costs
- Global service support

fact sheet:

8x8 Independent Chassis Dynamometer for emission, fuel economy & performance testing

This all wheel drive chassis dynamometer is suitable for testing heavy-duty multi-axle commercial vehicles. Each individual side mounted AC motor is coupled to a 48" roller and is capable of delivering accurately controlled high tractive forces. The axles can be configured and adjusted automatically to suit a wide range of vehicles with an innovative rack and pinion traversing system. The unique control techniques and software algorithms ensure highly accurate synchronization of the individual roll sets.

Applications

- ✓ heavy-duty multi-axle commercial vehicles

Features

- ✓ Twin encoders for increased accuracy
- ✓ Automatically adjustable axles to suit a wide range of vehicles
- ✓ IGBT 4 quadrant AC drive with power recuperation
- ✓ Vehicle axle weighing system
- ✓ Real time control processor and distributed I/O architecture
- ✓ unique control techniques and software algorithms ensure highly accurate synchronization of the individual roll sets
- ✓ Graphical user interface with Windows 10 operating system
- ✓ Central server function and host computer interface to enable data and test information to managed effectively
- ✓ vehicle restraint systems
- ✓ Personnel safety protection

Services

- ✓ Facilities planning and installation services
- ✓ Comprehensive in-house and/or on-site training for customer engineering, operator and maintenance personal
- ✓ Tailored preventative maintenance contract
- ✓ On-line diagnostics and support via VPN
- ✓ Technical helpline support

Options

- Throttle actuator or full Robot Driver
- Vehicle exhaust emissions testing
- Vehicle cooling fan
- Climatic design (typically -40°C to 60°C)
- Increased power/force options
- Expandable design to 16x16
- Single point restraint system
- Wheel guards/roll covers
- Road surface simulation shells
- Vibration slats
- Low noise roller surface coating
- Drivers-aid laptop/PC
- Data acquisition with powerful graphical presentation and analysis package

Typical specification

Power (continuous)	500kW
1 st and 2 nd axle	104kW (15 – 150km/h)
3 rd and 4 th axle	133kW (15 – 150km/h)
Tractive force (continuous)	32,000N / 25,000N
30 – 60s overload power - every 30 minutes	129kW (15 – 150km/h) / 166kW (15 – 150km/h)
Overload tractive force	31kN (15 – 150km/h) / 40kN (15 – 150km/h)
Tractive force at maximum vehicle speed	25,000N /roll / 32,000N /roll
Maximum vehicle speed	150km/h
Roller diameter	48" (1,2192m)

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