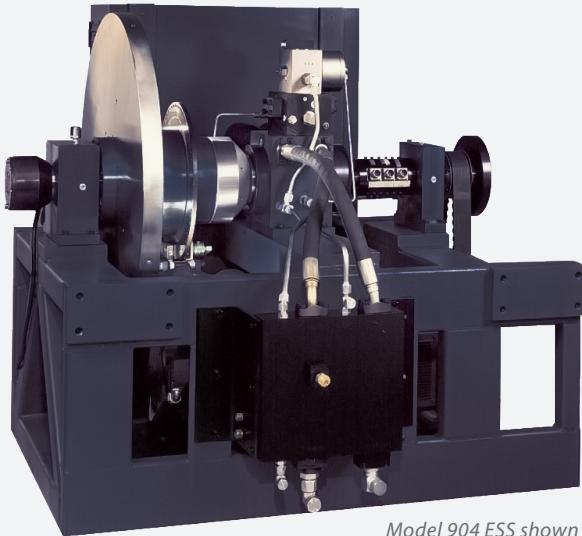


Team Engine Simulators replicate the effects of dynamic torque loads on engine driven components and systems. With speeds up to 8,000 rpm, dynamic torque output up to 3,300 lb-ft (4.4 kN-m) and torsional frequencies in excess of 600 Hz, Team Engine Simulators are easily configured to reproduce engine dynamics of virtually any displacement and number of cylinders.



Model 904 ESS shown

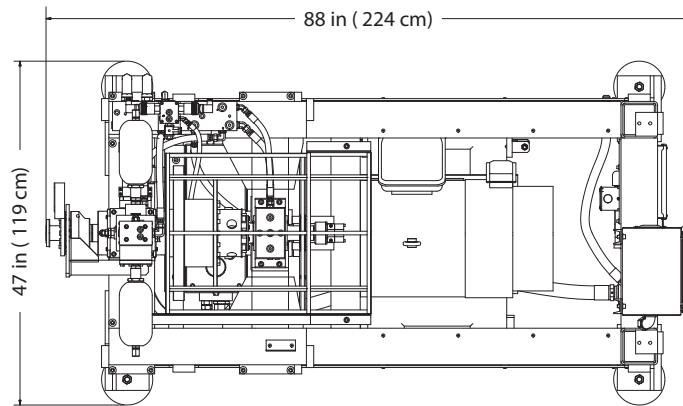
Features

- Speeds up to 8,000 rpm
- Dynamic torque output up to 3,300 lb-ft (4.4 kN-m)
- Torsional frequencies in excess of 600 Hz
- PC-based control system with easy-to-use graphical user interface
- Easily programmed to simulate any number of cylinders and torque characteristics
- Integral drive motors up to 100 hp (75 kW) or use existing prime movers

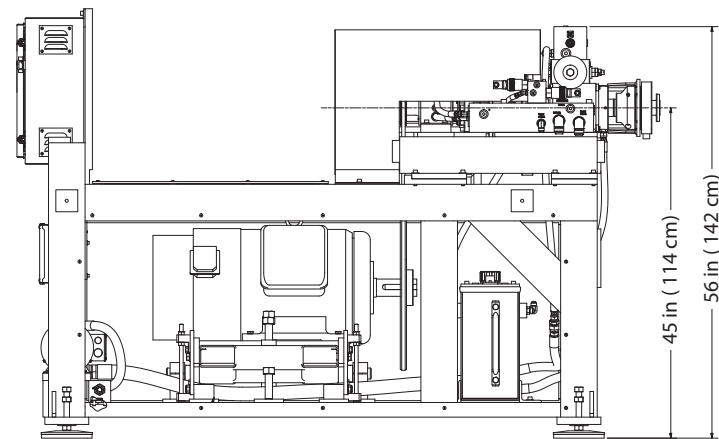
Applications

- Engine crankshaft torsional vibration
- Front Engine Accessory Drive (FEAD) development and analysis
- Simulation of pre-production engines
- Typical applications include:
 - Torsional vibration dampers
 - Couplings
 - Gears, transmissions, clutches
 - Transfer cases
 - Drivelines and belt drives

System	901 ESS	902.5 ESS	904 ESS
Dynamic Torque	800 lb-ft (1.1 kN-m)	1,100 lb-ft (1.5 kN-m)	3,300 lb-ft (4.4 kN-m)
Angular Displacement	+/- 45 degrees	+/- 45 degrees	+/- 45 degrees
Peak Angular Velocity	25 radians/sec	20 radians/sec	15 radians/sec
Peak Angular Acceleration (no load)	30,000 radians/sec ²	25,000 radians/sec ²	15,000 radians/sec ²
Maximum Speed	8,000 rpm	3,500 rpm	3,500 rpm
Recommended Hydraulic Power Supply	28 gpm @ 3,000 psi (108 lpm @ 205 bar)	68 gpm @ 3,000 psi (260 lpm @ 205 bar)	68 gpm @ 3,000 psi (260 lpm @ 205 bar)
Dimensions W x L x H	47 x 88 x 56 in (1.2 x 2.2 x 1.4 m)	36 x 51 x 48 in (0.9 x 1.3 x 1.2 m)	36 x 51 x 48 in (0.9 x 1.3 x 1.2 m)



Plan View



Elevation

Standard 901 ESS shown above.