

# PERFORMANCE MEASUREMENT TECHNOLOGY DYNAMOMETERS

**FPS 2700**  
VP 230048



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The FPS 2700 roller set is used in test centres and is suitable for vehicles with a single driven axle. It was designed for the exact measurement of the exhaust gas behaviour of vehicles during their transient emission test and permits a driving resistance simulation for the exhaust gas tests ASM-5015 and ASM-2525 (Acceleration Simulation Mode) in accordance with the specifications BAR '97. As a result of the increased tractive force of its eddy current brake, the FPS 2700 is additionally suitable for power measurements at constant speed and constant tractive force.

## PRODUCT DETAILS/ACCESSORIES

### Description:

- Transient emission testing for accurate analysis and measurement of emissions for vehicles under load (in conjunction with MAHA emission testers)
- Precise power measurement with manual input of ambient data for standard power projection
- Optimum reproducibility of results always guaranteed
- Option of in-ground (foundation required for in-ground installation)
- Optional connection of MAHA exhaust gas measuring instruments MGT 5, MDO 2 LON and MET 6
- Graphic display of wheel power, drag power, standard engine power and torque
- Discrete measurement using speed
- Print-out in graphic and tabular form for accurate logged evaluation and analysis
- Tachometer testing with up to ten freely selectable test points

- Performance measurement (wheel power) possible in the operation modes:
  - constant speed
  - constant tractive force
- Determination of wheel power, power dissipation, engine power and torque
- Evaluation of performance diagrams via cursor function with digital display of measuring values at cursor position
- Varnished with high-quality powder coating: Anthracite Grey, RAL 7016 (frame) Ruby red, RAL 3003 (rollers)

### Standard Delivery:

- Self-supporting closed roller set frame
- Pneumatic lifting bar
- Electric eddy-current brake
- Control of the tester via serial interface RS 232
- 10 m connection cable PC/laptop - function tester roller set

## TECHNICAL DATA

Axle load	2700 kg
Roller set	
dimensions (LxW1/W2xH1/H2)	3539x718/930x450/725 mm
Weight	approx. 1250 kg
Min. track	736 mm
Max. track	2438 mm
Roller diameter	217 mm
Power supply	230 V 50Hz
Fuse	20 A, slow-blow
Compressed air for lifting bar	6 - 10 bar
Min. testable wheel diameter	450 mm
Driving direction	one
Max. test speed	200 km/h
Measurement accuracy (wheel power)	+/- 3 %

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## TECHNICAL DATA

Max. wheel power	260 kW
Max. tractive force	6 kN
Acceleration mode	2700 kg
Packaging dimensions (L x W x H)	4000 x 1100 x 1000 mm
Weight including packaging	approx. 1350 kg

## ACCESSORIES

VP 186050	Communication Desk EUROSYSYSTEM Car/Truck (w/o electronics) Model: MCD 2000	VZ 910052	PC Keyboard and Mouse -NET PRICE
VZ 955273	Printer Compartment for Communication Desk EUROSYSYSTEM MCD 2000	VZ 910091	A4 Ink jet colour printer (incl. printer cable) -NET PRICE-
VZ 955274	Side Shelf for Comm. Desk EUROSYSYSTEM MCD 2000	VZ 910167	USB/RS 232 Converter for Connection to PC/ Laptop w/o. RS 232 Interface -NET-
VZ 955277	External PC Storage Shelf for Communication Desk EUROSYSYSTEM MCD 2000	VZ 975081	Side-Restraining Rollers (2 pcs.)
VZ 910177	Industrial PC Compact with Windows 10 -NET PRICE	VZ 935166	Driving Cycle Expansion Kit incl. 900 kg Flywheel Mass (simulated)
VZ 955275	Holder for Compact/Performance PC, suitable for placement inside MCD 2000 desk	VZ 935288	Lashing Straps with Floor Anchor
VZ 910200	PC Flat screen 24 VGA/DVI/HDMI, (TFT standard) -NET PRICE-	VZ 975897	Calibration Device ASM AF/BF
<b>SUPPLEMENTARY CHARGES</b>			
VT 998086	Transportkosten Funktionsprüfstand FPS	VM 996102	Installation Costs Function Tester FPS -UPON REQUEST-