# PERFORMANCE MEASUREMENT TECHNOLOGY **DYNAMOMETERS**

**FPS 2700**
VP 230048

## FPS 2700
VP 230048

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 andMET 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 upto 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

### TECHNICALDATA

| | |
|---|---|
| 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 |

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## TECHNICALDATA

| | |
|---|---|
| Driving direction | one |
| Max.test speed | 200 km/h |
| Measurement accuracy (wheel power) | +/- 3 % |
| 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 EUROSYSTEM Car/Truck (w/o electronics) Model: MCD 2000 |
| VZ 955273 | Printer Compartment for Communication Desk EUROSYSTEM MCD 2000 |
| VZ 955274 | Side Shelf for Comm. Desk EUROSYSTEM MCD 2000 |
| VZ 955277 | External PC Storage Shelf for Communication Desk EUROSYSTEM MCD 2000 |
| VZ 910208 | Industrial PC Compact with Windows 11 -NET PRICE |
| VZ 955275 | Holder for Compact/Performance PC, suitable for placement inside MCD 2000 desk |
| VZ 910200 | PC Flat screen 24 VGA/DVI/HDMI, (TFT standard) -NET PRICE- |
| VZ 910052 | PC Keyboard and Mouse -NET PRICE |
| VZ 910091 | A4 Ink jet colour printer (incl. printer cable) -NET PRICE- |
| VZ 910167 | USB/RS 232 Converter for Connection to PC/ Laptop w/o. RS 232 Interface -NET- |
| VZ 975081 | Side-Restraining Rollers (2 pcs.) |
| VZ 935166 | Driving Cycle Expansion Kit incl. 900 kg Flywheel Mass (simulated) |
| VZ 935288 | Lashing Straps with Floor Anchor |
| VZ 975897 | Calibration Device ASM AF/BF |

**SUPPLEMENTARY CHARGES**

| | |
|---|---|
| VT 998165 | Internal transport -SOUTHFPS, ASM One-axle |
| VT 998166 | Internal transport -NORTHFPS, ASM One-axle |
| VM 996102 | Installation Costs Function Tester FPS -UPON REQUEST- |