PERFORMANCE MEASUREMENT TECHNOLOGY **ASM**

ASM-BF/1
VP 230043

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The ASM-BF/1 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.

PRODUCT DETAILS/ACCESSORIES

- Transient emission testing for accurate analysis and measurement of emissions for vehicles under load (in conjunction with MAHA emission testers)
- Driving resistance simulation for ASM-5015 and ASM-2525 emission tests (Acceleration Simulation Mode) in line with the BAR '97 specifications

Roller Set Description and Standard Delivery
- Self-supporting closed roller set frame
- Option of in-ground configuration with flush-floor installation of complete roller set, foundation necessary
- Pneumatic lifting bar
- Electric eddy-current brake with integrated flywheel
- AC-Motor including control and power electronics
- Foundation cover plate (traversable up to 13 t)
- Varnished with high-quality powder coating: Anthracite Grey, RAL 7016 (frame) Ruby Red , RAL 3003 (rollers)

Operating modes of the tester in conjunction with emissions analyser or external PC:
- Driving resistance simulation for ASM-5015 and ASM-2525 emission tests (Acceleration Simulation Mode) in line with the BAR '97 specifications
- Driving resistance simulation for transient emissions testing in line with standard test cycles (note: vehicle inertia simulation in deceleration mode limited to 2000 lbs (900 kg)
- Determination and compensation of equipment's own losses ('Parasitic losses') according to BAR'97 specifications. Acceleration of the roller set with built-in AC-Motor to approx. 50 km/h with subsequent performance of roll-off tests ('coast-down')
- Performance measurement (wheel power) possible in the operation modes:
  - constant speed
  - constant tractive force
- Control of the tester via serial interface RS-232 (e.g. emissionsanalyser which meets ýÿBAR '97ýÿ specifications or an external PC)
- Test bench is not CE-compliant delivery to non-EU countries only

TECHNICAL DATA

Axle load	2700 kg
Roller set	
dimensions (L x W x H)	3275 x 720 x 270/700 mm
Weight	approx. 820 kg
Min. track	740 mm
Max. track	2440 mm
Roller diameter	217 mm
Mechanical inertia	900 kg (2000 lbs)
Power supply	230 V 50 Hz
Fuse	20 A, slow-blow

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TECHNICAL DATA

Compressed air for lifting bar	6 - 10 bar
Min. testable wheel diameter	450 mm
Driving direction	bi-directional
Max. test speed	160 km/h
Max. wheel power	50 kW
Max. tractive force	3000 N
Vehicle inertia simulation	
Acceleration mode	(6000 lbs) 2700 kg
Deceleration mode	(2000 lbs) 900 kg
Adjustable increment	1 lb
Packaging dimensions (L x W x H)	3600 x 750 x 1000 mm
Weight including packaging	approx. 920 kg

ACCESSORIES

VZ 975139	Two Weighing Cells integrated in the Vehicle Lifting Device
VZ 975081	Side-Restraining Rollers (2 pcs.)
VZ 935288	Lashing Straps with Floor Anchor
VZ 910167	USB/RS 232 Converter for Connection to PC/ Laptop w/o. RS 232 Interface -NET-
VZ 975897	Calibration Device ASM AF/BF
VZ 975898	Upgrade Calibration device for scales -EXTRA CHARGE-

SUPPLEMENTARY CHARGES

VT 998165	Internal transport -SOUTHFPS, ASM One-axle
VT 998166	Internal transport -NORTHFPS, ASM One-axle
VM 995010	Installation costs based on time spent.
VV 997554	Packaging charges for Adjusting device

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