

PERFORMANCE MEASUREMENT TECHNOLOGY ASM

ASM-AF
VP 230045



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The ASM-AF 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. The ASM-AF is built into the base.

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
- Surface-mounted installation, with drive-on ramps (option)
- Pneumatic lifting bar

*Electric eddy-current brake with integrated flywheel

- AC-Motor including control and power electronics
- 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. emissions analyser which meets 'BAR '97' 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 270/570 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
Compressed air for lifting bar	6 - 10 bar
Min. testable wheel diameter	450 mm

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TECHNICAL DATA

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 975897	Calibration Device ASM AF/BF
VZ 975895	Set of drive-on ramps for above-floor operation	VZ 975898	Aufrüstung Kalibriervorrichtung für Waage -AUFPREIS-
VZ 975896	Set of drive-over ramps straight/modular		SUPPLEMENTARY CHARGES
VZ 975081	Side-Restraining Rollers (2 pcs.)	VT 998165	Transport Werkverkehr -SÜDFPS, ASM Einachs
VZ 935288	Lashing Straps with Floor Anchor	VT 998166	Transport Werkverkehr -NORDFPS, ASM Einachs
VZ 910167	USB/RS 232 Converter for Connection to PC/ Laptop w/o. RS 232 Interface -NET-	VM 995010	Assembly costs after expenditure of time by hour.
		VV 997554	Packaging charges for Adjusting device