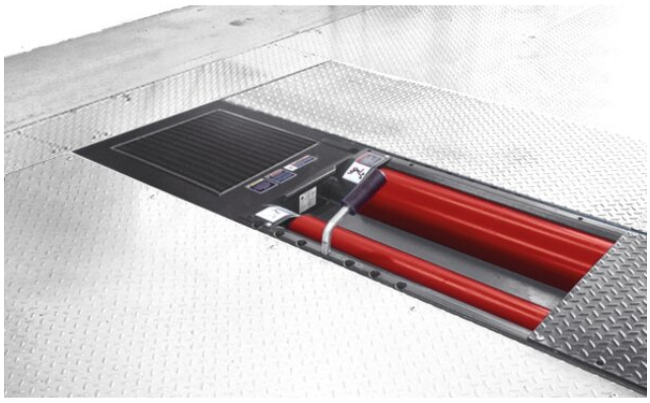
PERFORMANCE MEASUREMENT TECHNOLOGY
ASM

ASM-P-PLUS
VP 230047



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The ASM-P-PLUS 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 increased tractive force of its eddy current brake means that the ASM-P-PLUS is also 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)
- 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
- In-ground installation Foundation required for in-ground installation
- Electric eddy-current brake with separate flywheel
- AC-Motor including control and power electronics
- Foundation cover plate
- Varnished with high-quality powder coating: Anthracite Grey, RAL 7016 (frame) Ruby Re , 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 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 (ýÿParasitic lossesýÿ) 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 (ýÿcoast-downýÿ).
- Performance measurement (wheel power) possible in the operation modes:
  - constant speed
  - constant tractive force
- Control of equipment via serial interface RS232 (e.g. emissions analyser which meets ýÿBAR '97ýÿ specifications or external PC)
- Test bench is not CE-compliant delivery to non-EU countries only

$ZA - International intro trailer
The ASM-AF, ASM-BF and ASM-P roller dynamometers are designed
to the exact ýÿBAR '97ýÿ official emissions testing specifications of the ýÿBureau of Automotive Repairýÿ, Sacramento, California.
The dynamometers are controlled exclusively via the serial interface RS 232. Dynamometer control takes place via LON nodes in conjunction with EUROSYSTEM.
(Dynamometer calibration takes place via the service program and the RS-232 interface.) Operating modes, functions and settings can be selected with the PC of any emissions analyser which fulfils the US ýÿBAR '97ýÿ specifications.

TECHNICAL DATA

Axle load	5500 kg
Roller set	
dimensions in-ground (L x W x H)	3640 x 932 x 450 mm
Min. track	740 mm
Max. track	2440 mm
Roller diameter	217 mm

TECHNICAL DATA

Mechanical inertia	900 kg (2000 lbs)
Power supply	230 V 50 Hz
Fuse	20 A, slow-blow
Min. testable wheel diameter	450 mm
Driving direction	bi-directional
Max. test speed	160 km/h
Max. wheel power	200 kW
Max. tractive force	6000 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)	4000 x 1100 x 1000 mm
Weight .	approx. 1400 kg
Weight including packaging	approx. 1500 kg

ACCESSORIES

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 935288	Lashing Straps with Floor Anchor
VZ 911224	ASM-P Software Module Standard Power Measurement
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 995010	Installation costs based on time spent.
VV 997554	Packaging charges for Adjusting device