MAHA Maschinenbau Haldenwang at the "Reifen 2004"

Every two years the worldwide tire branch meets in Essen, Germany for the Tire Exhibition. This year the gates of the exhibition are open for visitors from 8th to 11th of June.

MAHA Maschinenbau Haldenwang is exhibiting innovations and products for the tire industry in hall 1.0 Booth 1-304.

In the balancing and changing segments MAHA is offering innovations with the Wheel B25 and Wheel B50.

The fully automatic robot-controlled Lasatron steering geometry measurement shows how far wheel alignment has come today.

Innovative highlight of the MAHA-Stand is the Tire Tread Depth Measurement Device TM 1000 integrated in an car brake tester.

Our "Tire Service" program has been expanded to include specially designed and adapted short stroke and twin scissors lifts to meet the needs of the tire branch.

It is worth a visit! Our stand 1-304 is located in Hall 1.0

Lasatron A12
Wheel Alignment Measurement System

MAHA offers robot-controlled steering geometry measurement systems since 2003. Lasatron systems have been tested and installed with great success in large workshops, at vehicle manufacturers and test organizations. The universal range of application for the wheel alignment measurement includes cars, trucks and buses.

The Lasatron A12 is the first serially produced complete system. It was developed by the Swiss company Lasatron which has over 20 years of experience in the development and production of steering geometry measurement systems.

The wheel alignment device determines the steering geometry data using measurement robots mounted on tracks. The robots move along the vehicle and record the measurement data of the individual axles. It requires only 4 minutes and needs no set up time.

The easy handling and operation are Lasatron’s greatest advantages and require no wheel alignment heads or rim adapters be attached to the wheels. Operational errors can be virtually done away with thanks to menu-guided computer operation.

The measurement procedure is not affected by outside light sources (sunshine) and provides an extremely high measurement accuracy (up to one angular minute).

The measurement procedure requires no electronic turning plate because the measurement robot follows the steering angle. Advantages of this: no cables running to turning plates, no batteries needed with cable-free electronic turning plates, no sensitive electronics which can be damaged by moisture or dust.

The Lasatron system combines perfected industry-proven measurement technology with one of the best wheel alignment lifts meeting the highest demands placed on steering geometry measurement.

Exhibition Dates

MAHA technology and know-how can be seen around the world at the following exhibitions. Drop by for a visit and learn more about our latest innovations.

- International Automobile Exhibition for Trucks
  Brno, Czech Republic
  June 5-9, 2004
- REIFEN INTERNATIONAL
  Essen, Germany
  June 8-11, 2004
- The Truck Show
  Las Vegas
  June 10-12, 2004
- Werkstatt Südwest
  Sindelfingen, Germany
  June 18-20, 2004
- PAACE Automechanika
  Mexico City, Mexico
  July 14-16, 2004
- LASTBIL
  Jönköping, Sweden
  August 26-29, 2004
- MIMS 2004
  Moscow, Russia
  August 29-29, 2004
- Automechanika 2004
  Frankfurt, Germany
  Sept. 14-19, 2004
- IAA Commercial Vehicles
  Hannover, Germany
  Sept 23-30, 2004
- Automechanika
  Budapest, Hungary
  Aug. 30 - Sept 3, 2004
- Nordautó
  Hamburg, Germany
  November 12-14, 2004

We are looking forward to your visit at our booth or those of our partners.
New MAHA Short Stroke and Twin Scissors Lifts

Effective immediately MAHA has expanded its lift product line with the introduction of short stroke and twin scissors lifts. Focus has been placed on tire service with the following versions and with a wide scope of application possibilities:

- Short stroke scissors lift mobile: SOLO 2.5 M
- Short stroke scissors lift stationary: SOLO 2.5 A/U
- Twin Scissors Lift surface mounted, low profile design Version: Twin 3.0 F
- Twin Scissors Lift flush mounted: Twin 30/3.5 U (H)

Load capacities between 2.5 t and 3.5 t. Of special advantage are the space saving design and easy installation of the scissors lifts. Short stroke scissors lifts are used primarily in body shops and tire service workshops. They offer open access to the side of the vehicle and are mounted flush floor. They can be driven over from the side. A patented control cylinder controls the synchronisation. A pneumatic safety latch ensures a safe working environment underneath a lifted vehicle. A speciality of the SOLO Series is the mobile SOLO 2.5 M: Using the mobile control panel and an optionally available wheel set, the SOLO 2.5 M can be flexibly used in the workshop.

The twin scissors lift has a space-saving design with a minimum of installation work needed. Flush floor installation means the lift can be driven over from the side.

The lift offers unlimited access to the vehicle’s doors.

The twin scissors lifts are especially suitable for buildings with several floors and workshop areas with basements.

At the forefront of lift safety is: synchronized operation and high safety level are achieved with a patented and twin redundancy master/slave system. Pinch and crush protection with an audible signal. Maintenance-free and non-contact proximity switch for height detection.

The MAHA Short Stroke and Twin Scissors lifts distinguish themselves with innovative technology (4 patents), extreme stability and easy vehicle lifting.

MAHA Wheel Balancers; Wheel B10, B25, B50

At the REIFEN 2004 MAHA is presenting its entire program of wheel balancing machinery including the easy-to-use Wheel B10, the Wheel B25 up to the high performance Wheel B50.

Wheel B10

The Wheel B10 is an electronic wheel balancer which attracts attention with a compact construction and first-class design. Standard static and dynamic balancing is offered along with additional important features such as matching and precision balancing. A stand-out feature is the possibility of entering two various rim diameters at data input (using the integrated potentiometer in the extendable read-in measurement gauge). This enables the concealed attachment of the adhesive weights for aluminum rims at two different levels. Additional features on the Wheel B10:

- The balancer is manually driven and requires no wheel guard due to the low balancing speed below 100 RPM.
- Flexible modular construction system, for adaptation to individual demands, for example
  - Clamping devices for balancing of motorcycle wheels
  - The balancer is available as table or upright unit with foot.
  - A wide scope of accessories is available in cooperation with HAEWEKA (Clamping devices by HAWNEKA).
  - The wheel balancer is 100 % “Made in Germany” unit.

Wheel B25

The Wheel B25 wheel balancer is the modern unit for daily application in workshops and tire shops. The Wheel B25 unites design and functionality. The outfitting features of the wheel balancer guarantee that the modern demands placed on it by the use of modern tires are fulfilled.

Wheel B25 features:
- Basic programs same as Wheel B10
- Program: ALU, Matching for weight reduction and for PAX tires
- Automatic transfer of wheel/machine distance and rim diameter
- Compact housing with Top Design
- Clear and user-friendly LED display.

Wheel B50

The top performance wheel balancer Wheel B50 is designed for total usage in high service tire shops and workshops. Another dimension is added to the Wheel B25.

Wheel B50 features:
- Scan arm for automatic recording of wheel width
- Micro-processor controlled balancing electronic
  - TFT-Monitor
  - Each program displays static out-of-balance
- Automatic deceleration in the first balancing level after balancing procedure
- Storage for various cone sizes

Roadshow

Together with MAHA dealers, a Roadshow was be started in the middle of June presenting MAHA emission and diagnostic technology. From 14th to 18th of June, 2004 the complete program was be introduced and demonstrated in Northern Germany. Key point of the demonstrations was the combination of emission testers, error storage and service interval resets for comprehensive vehicle diagnostic. Experts from MAHA headquarters and dealers on location are available to answer questions.
New MAHA Tyre Changer: Tyre C10, C25, C50

In addition to wheel balancers, MAHA offers a new tyre changer series; “Tyre C10”, “Tyre C25” and “Tyre C50”. This machine helps to meet the needs of the new tyre development generation covering the complete scope of the tyre industry product line. Even the expanded rim size of 22” is included. Emergency spare tyres can be worked on also; irrelevant of reinforced flanks or emergency tyres with support ring.

MAHA Tire Tread Measurement Device

The world’s first “Tire Tread-Measurement Device TM 1000” by MAHA measures the tread depth of a tire at about 40,000 points during rotation on a roller set, e.g. with a roller brake tester. The all-in-one test means no extra steps are needed to measure the complete tire circumference automatically, precisely and objectively. The statutory limit values described in § 36 of German Road Regulations at 75% of the inspected surface serve as a basis. The law sets down prescriptions in other countries. The measurement device is located in a roller set of a car brake tester. A laser attached to a carriage is installed on each side which scans the tire. The measurement is integrated in the test procedure (brake test) and the tire tread measurement represents a majority contribution to increasing traffic safety. The results of the 2003 tire inspection project (Source: Federal Ministry for Traffic, Construction and Buildings) shows that the 600,000 inspected vehicles, 20% are underway with insufficient tread. And to add to this figure: the number of tires with deficient tread increased by 50% (to be exact by 46%).

Approval of New Specifications for BMW and KÜS

The reworking and updating of specifications at BMW for the areas of emission technology, performance testing and air conditioning service is completed. Effective immediately the current specifications for the air conditioning service unit RS 2. Emission testers MGT 5 and MDO 2 LON as well as LPS 3000 (BMW) are valid. See the MAHA Homepage under www.maha.de => Products => Approvals => BMW to call them up.

Approval MAHA Emission Technology with KÜS-Official Expert Commission:

The MAHA Emission Tester MGT 5 (Gasoline) and MDO 2 LON (Diesel) have also been issued approvals by KÜS-the official expert commission organization. The complete specifications are under www.maha.de => Products => Approvals => KÜS.

News Briefs

MAHA German Dealer Conference in Kempten

In April 2004 the German Dealer Conference took place in Haldenwang and Kempten. MAHA’s complete network of German dealers traveled to the Allgäu for the occasion. Presentations on the first day included new products and technologies such as the DS 1000 Diagnostic Device and the TM 1000 Tire Tread Measurement Device. The expansion of existing product lines was introduced in the field of lift technology which includes the new twin scissors lift and the short stroke lift. The participants also saw the new wheel balancers B25 and B50. The focal point on the second day dealt with market strategy for the introduction of the new products. The new MAHA Group Service Center called AutomoTec was introduced in detail as was a detailed explanation about the price increases due to exploding prices on the steel market. The closing presentation was held by the well-known motivation coach Hans Uwe Köhler encouraging a positive attitude to tackle the rest of the year.

MAHA-Online-Shop is opened

MAHA offers Web shopping around the clock. Selected MAHA products can be purchased comfortably 24 hours a day every day of the week. MAHA products such as Decelerometer, Brake Fluid Tester, AU Storage Unit, Wheel Balancer B10 or Closing Force Meter are just a few examples of the offerings. The offers include packing and shipment within Europe. Used MAHA equipment is also available through the Webshop - a great opportunity to get good workshop equipment which has been generally overhauled.
AutomoTec-Factory Customer Service from MAHA, SLIFT, hetra, MAHA-AIP and Lasatron

The factory customer service organization, AutomoTec, which includes MAHA, SLIFT, hetra, MAHA AIP, and Lasatron started on May 1, 2004. The existing manufacturer factory customer services have been joined together in AutomoTec with Robert For-derer as head. The annual volume of assignments includes about 7,000 installations, maintenance and repair jobs in Germany (currently 60 %, decreasing tendency) and worldwide (currently 40 %, increasing tendency). The strategic function of service can now be utilized even more intensively. The core competency is service and maintenance for technical products and systems out of the automotive branch. The claims on quality and reliability are high: 94% of all assignments are on time and in over 90% of the job assignments the service technician has the necessary spare parts on board. Complete service readiness covering all of Germany has been achieved with expanded working hours (Monday - Friday: 07.00 - 17.00, Saturday: 08.00 - 12.00) bringing with it advantages for the customer having unlimited access to the workshop. Our own factory trucks transport the products and systems directly to the installation locations. The vehicles are equipped with loading cranes making for easy positioning in the floor assemblies in the foundations. Most important is the optimum appointment coordination between factory and service technician. Haldenwang is the headquarters of AutomoTec Service support spots in the largest European markets and worldwide location to date are: Bangkok (Thailand) and Buenos Aires (Argentina) which stand for AutomoTec’s international focus. Over 100 employees now make up the international team offering optimum service for our products in After-Sales-Service.

The name AutomoTec combines the words “Automotive” and “Technology”.

Product Innovation: MAHA Emission and Diagnostic Technology

High Temperature Probe for Emission Tester MGT 5

The emission tester MGT 5 is often used in connection with the LPS 3000 performance tester. Much higher emission temperatures are however necessary to meet individual demands. Therefore MAHA is now offering immediately a special flexible high temperature probe tip for this type of application with a temperature stability of 750° centigrade.

Selection assistance with the Motor Vehicle Diagnostic System DS 1000

The new MAHA Vehicle Diagnostic System DS 1000 is modularly designed. A flow diagram has been added to make the optimum compilation easier to meet individual demands. The flow diagram clearly shows which positions are absolutely necessary for operation and those which are optionally available. The diagram provides the interested parties a trouble-free selection of the MAHA Motor Vehicle Diagnostic System DS 1000. The flow diagram can be downloaded from the MAHA homepage shortly under www.maha.de