
Product release

Freiburg, 6th February 2014

Movable Line Laser System Z-MLLS will be launched for the first time at TIRE 2014

Freiburg, Germany. **Z-LASER**, leading manufacturer of laser modules and laser systems, presents for the first time its Movable Line Laser System **Z-MLLS** at Tire Technology Expo in Cologne. The name **Z-MLLS** is the acronym for the first letters; it is a special development for tire building machines. The laser system is mounted above the tire building machine and the laser lines are used for fast and precise material placement.

Housing and electronics have been completely new developed. Along with proven laser and spindle technology the result is a comparatively light system with 10kg and only 110x13x13cm housing. On a maintenance-free linear spindle axle one laser module is fixed in the middle, two outer module slides are rapidly moving parallel (Projection accuracy $\pm 0.2\text{mm/m}$) with up to 300mm per second. The perfectly parallel aligned laser beams are for tires with up to 76cm width in the standard version; focus range if from 120 to 2500mm. The system is controlled via RS-485 or USB and the lasers can also be moved by portable devices with Wi-Fi. Special requirements for installing the system or variable laser assembly (red, green or blue with 30° or 90° fan angle) are always possible upon customer request. We recommend using green laser lines for best visibility on dark (black) rubber and in bright light surroundings.

Z-MLLS – main features

- Maintenance-free linear axle with spindle
- Projection accuracy $\pm 0.2\text{mm/m}$
- Interfaces: RS-485, USB. Optional: Ethernet, Wi-Fi; others on request
- Laser projection: Red or green, blue on request
- Optical output power: 3-30mW
- Speed: up to 300 mm/s
- Dimensions: 1100 x 130 x 128mm (length x width x height)
- Operating voltage: 24VDC $\pm 10\%$

Visit us at Tire Technology Expo 2014 in Cologne, Hall 11.1, Booth 1081.

About **Z-LASER**

Founded in 1985, **Z-LASER** is well-known as a manufacturer of industrial laser systems for manufacturing, machine vision, measurement and medical applications as well as appliance in analysis and science. The team has its own large development department that utilizes our expertise in optoelectronics and laser technology to come up with innovative solutions. For further company details please go to www.z-laser.com.