

ITT-Twin machine

The fastest solution for Inline Bead to Bead inspection



*ITT double inline setup for high bead to bead test capacity utilizing tread and belt package inspection from inside and both sidewalls from outside

ITT-Twin 1080, 1280 and 1680

The industrial solution for most efficient bead to bead testing of all kind of tire and casing types in the new tire industry as well as industrial retreading. The focus of a Twin setup with its dynamic and fast linear systems is on industrial applications in full-time operation (24h/7d).

The ITT-Twin setup is equipped with three measuring heads. Two measuring heads with tilt axis inspecting simultaneously the sidewall from the outside. A single measuringhead without tiltaxis is measuring the crown area. With the small crown measuring head very small tire down to 8" rim diameter can be tested.

With the Twin configuration, the first sidewall and half of the crown area are inspected in the first machine. After flipping between the machines, the second machine is testing the second half of the tire. Simultaneously the next tire is already tested in the first machine and so on.

Optional features -such as automatic barcode reading, tire contour detection, automatic anomaly detection with specific evaluation zones- allow a fully automated operation stand alone or integrated into a conveyor system.

Your benefits

- Modular design, adaptable to your specific requirements
- Easy operation by user-friendly software
- HMI with touchscreen operation
- Automatic tire contour detection for automated tire testing
- Different test procedures for individual and specific tire testing
- Special features such as 45° shearing angle for maximum sensitivity, adapted image format for specific tire sizes, etc...



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NON-DESTRUCTIVE TIRE TESTING BY SDS TECHNOLOGY

Technical data and options

Features	ITT-Twin 1080/1280	ITT-Twin 1680
Tire Types	motor cycle-, passenger car-, truck-, aircraft tires; radial and bias construction	
Testing Area	full bead to bead and turn-up area with automated tire flipping	
Defect Types	all kind of separations, trapped air, corrosion, loose wires, undercure, blister,...	
Display of Results	overview of all scans, single scans, single sector display as result- and video image	
Data Storage	automatic, ISO compliant, backup manager for archiving to various media	
Loading / Unloading	two door setup with inline turnover fixture (TOF) and pneumatic loader / unloader or integrated into a conveyor system for automated feeding	
Conveyor System	optional various modules, individual layouts and several interfaces for logistic solutions	
Barcode	optional handheld barcode scanner or automated solutions, open data interfaces (FAR, etc.)	
Automatic Anomaly Detection	optional with adjustable sensitivity, evaluations zones, polygonized area, statistical output (CVS)	
Computer System / PLC	Industrial PC, Windows 7 or 10 / WAGO or optional Beckhoff, Rockwell*	
Remote Control	via Internet	
Number of Measuring Heads	2x 3 heads	
Dimensions L x W x H (mm)	8400 x 2400 x 2200 / 4800 x 2400 x 2400	9000 x 2900 x 2500
Electrical Connection 3PH / 50-60Hz	380 - 480 V / 32 Amp or country specific	
Pneumatic Connection	R1/2", min. 7 bar (6 bar on request)	
Ambient Temperature **	+10°C to +35°C	
Color (RAL)	blue (5002), silver (9007) or customer preference	
min. innerØ - max. outerØ	Ø 8" - 1080 / 1280 mm	Ø 8" - 1680 mm
min./max width (mm)	100 mm - 460 / 560 mm	100 mm - 660 mm
Test capacity tires/hour (bead to bead)	74 / 72	60

* details on request ** higher temperature ranges with air condition,

*** test cycle with 8 sectors / 40 mbar, typical rest time and Windows 7; tires are loaded continuously

SDS Systemtechnik GmbH
Rudolf-Diesel-Strasse 7
D-75365 Calw-Stammheim

www.sds-systemtechnik.com
info@sds-systemtechnik.de

SDS
Systemtechnik
GmbH



Technical consulting
Phone +49 (0) 7051 / 93154-0

Personal advice on-site.
Arrange an appointment:
Phone +49 (0) 7051 / 93154-0
Fax +49 (0) 7051 / 93154-99