

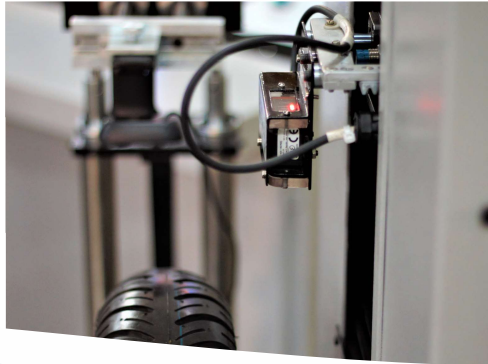


2W | 3W

AUTOMATED • COMPUTERIZED • WIDE RANGE • ECONOMICAL

DYNAMIC GROWTH TESTING SYSTEM

Non-Contact Laser Measurement



Tyre Dynamic Growth Testing
DynGro-X3134

AG Measurematics
measurement is simple now!



*Wheel Rim Sizes From 8~24"
Fully Automated Operation
Real Time Image Capture*

REFERENCE | IS-15627 (2W&3W)
STANDARD | QVCN, GB 13203, INMETRO



Doc # M80a-122019

AG Measurematics

testing is simple, now!

Dynamic Growth of Tyre Testing System 2W | 3W

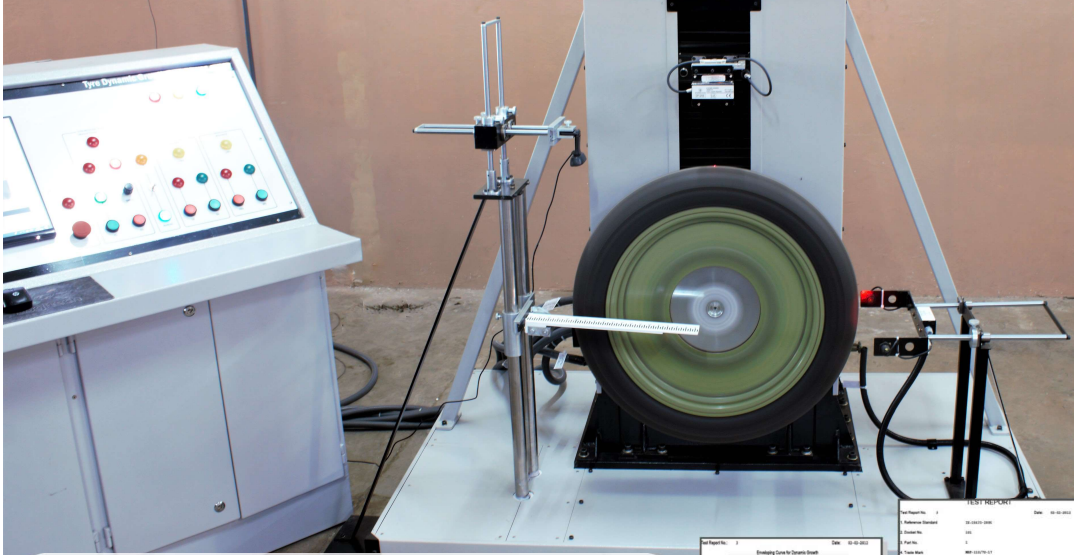
DynGro Non-Contact

DynGro has been designed to determine the maximum growth of the tyre due to the effect of the centrifugal force at the maximum permissible speed. Such a test has also been prescribed in "Regulation No 75 of the Economic Commission for Europe of the United Nations (UN/ECE) – Uniform provisions concerning the approval of pneumatic tyres for motor cycles and mopeds"

4.3.1 of IS 15627 (for 2W & 3 W). DynGro is also available to meet the international testing standards QVCN, GB 13203, INMETRO or others.

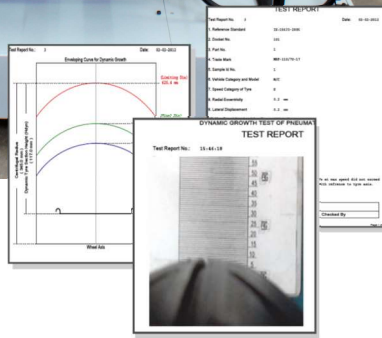
To determine dynamic growth the diameter of the tyre is measured both before the start of the test and after it has been rotating at its rated speed for pre-specified duration.

The test rig has been designed also to meet the requirements of Clause

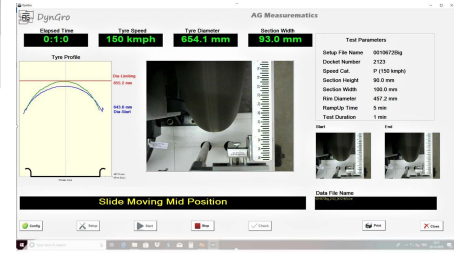
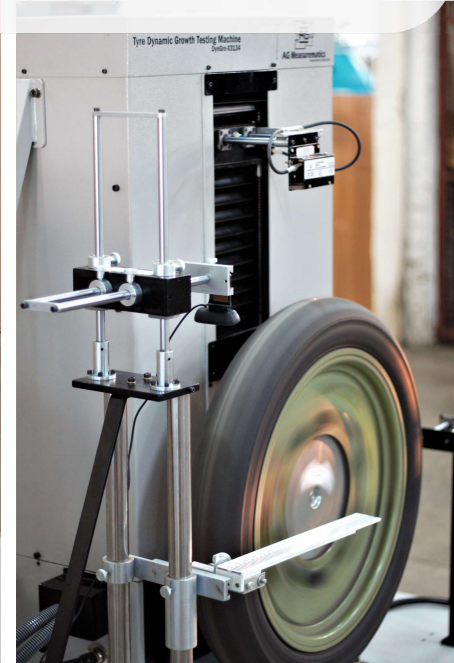


The floor mounting test rig is supplied with a control desk, a computer interface unit, a desk-top computer and an application software. The tyre is rotated by means of an AC motor the speed of which is controlled through a variable frequency AC speed drive.

The application software is generates test reports showing the enveloping curve of the tyre under test as well as photographs of tyre both before the start and after the tyre attains its maximum permissible speed. The photograph, taken through a high resolution camera fitted on the rig, shows a tyre profile on a scale of 1:1.



Test Reports



Software - DynGro

Features

- **Computerized testing and test report generation.**
- **Non Contact High Precision Laser Measurement**
- **Automatic image capture through High-Resolution Camera of tyre at various stages.**
- **Real time display of tyre speed in km/h. wheel dia in stationary condition, dia at maximum permissible speed, enveloping curve for start, end and limiting.**
- **User programmable Ramp-up duration and test duration in minutes.**
- **Easy setup file creation, editing and selection for different type of tyres**

Specifications

- | | |
|-------------------------------|---|
| Number of stations | Single |
| Loading Operation | High speed AC Servo Motor |
| Speed Range | 0~300 Km/h (Speed Varies according to tyre class) |
| Wheel Type | 2,3 Wheelers |
| Rim Dia | 8"~24" |
| Inflated Tyre Dia | Max 800mm |
| Inflated Tyre Width | Max 200mm |
| Power Requirement | 10HP, 3Ph 415V AC, 50Hz |
| Tyre Speed Measurement | Precision Rotary optical encoder
Least Count : 1 km/h |
| Tyre Dia Measurement | High Accuracy Laser Sensor
Accuracy: Better then ±0.5% FSR |
| Tyre Width Measurement | *OPTIONAL - Non Contact Laser Based |
| Image Capture Device | 5MP High speed camera |
| Application software Included | - DynGro |
| Control | Manual through control panel
Automated through PC via application software |
| InLine Air Press. Management | - *OPTIONAL Tyre air pressure monitor & control |



Fully Enclosed

AG Measurematics also undertakes design, manufacturing & training of any type of test rig as per customer requirement. Our years of work in the automotive testing have enabled us to provide total solution from sensors, system & software for your applications. Mechanical fabrication, Instrumentation, Hydraulics, Pneumatic & software development is done in our manufacturing facilities in INDIA.



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testing is simple, now!

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