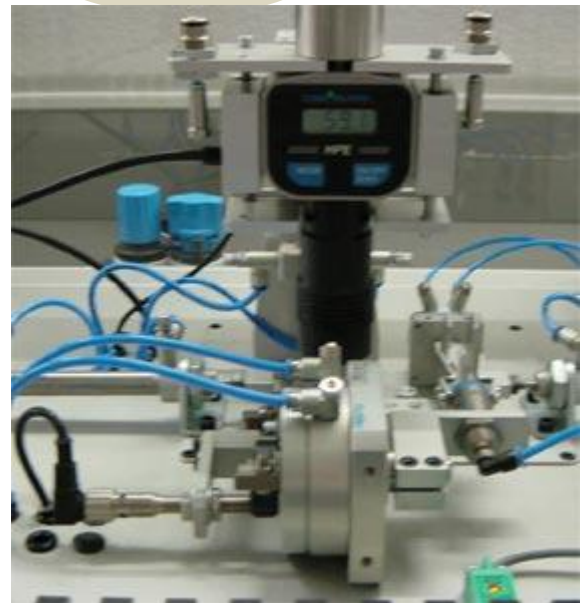


SIS SCARABAEUS INSTRUMENTS SYSTEMS

SIS-D20/D60/D100

A full automatic test instrument for density measurement of 20 to 100 rubber samples, by measuring weight and buoyancy.

With double gripper system and automatic feed,



consisting of following components:

Automation Unit:

- Festo-valve terminal for controlling pneumatic movements
 - Festo-PLC for controlling and acquisition of electrical states
 - with double gripper double gripper system for measuring dry and buoyancy
 - Disk for up to 20 samples
 - Modes of operation, start, stop and pause
 - Density calculation using the finite difference method, considering the water temperature (optional).
 - Measuring of 3 single points shore A and calculating the mean value and the median.
 - Sample diameter 30-45mm
 - Sample thickness 3-6mm
 - Density measuring range < 1.0 with isopropanol, > 1.01 bis 2.5 g/ccm with Water.
- Optional: a PT100 temperature detection unit for water temperature can be offered additionally.

Density balance respectively analytical balance from Mettler

- Type of balance R203
- Resolution 0.001 gram or 0.0001g
- Serial port for remote acquisition
- Balance beam bar at the bottom field



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