



AGILE, ROBUST,  
SMART LAB SYSTEM.  
SUSTAINABILITY AND RESILIENCE.

## AL UN H RING STIFFNESS TEST MACHINE

\* Boutique  
Manufacturing with  
Desirable Features

The ring stiffness of pipes is one of the significant indicators for the assessment of pipe stability. This test allows to determine the resistance of the external load of plastic pipe.

AL-UN H machine compliance with **ISO 527, ISO 6259, ASTM D 638, ASTM D 624, ASTM D 412** standards and is equipped to perform dynamic and static tests with a certain frequency cycle. Database management, system network.

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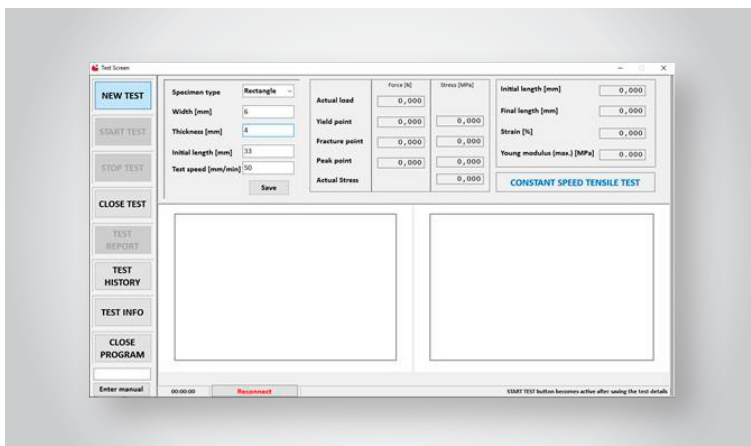
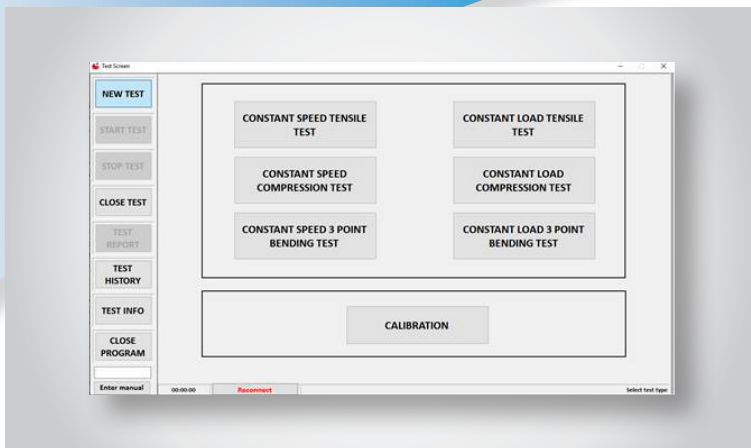
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# AL UN H RING STIFFNESS TEST MACHINE

## TECHNICAL SPECIFICATIONS



## AL UN S RING STIFFNESS TEST MACHINE



Boutique  
Manufacturing

Suitable for  
Ø 250 mm  
thermoplastic  
pipes.

## FUNCTIONS

- ✓ Static tensile
- ✓ Static compression
- ✓ Dynamic impact - Cycle Tensile
- ✓ Dynamic impact - Cycle Compression
- ✓ Enable to test GRP, composite, metal, concrete etc. materials
- ✓ Performing wide range load and frequency
- ✓ Precise displacement measurement
- ✓ Strong frame - lead screws and threaded nuts with axial and radial dual bearing
- ✓ Chromed inductioned lead screws, 2 mm nitration depth
- ✓ Single and double column options
- ✓ Remote access service network
- ✓ Database management, system network.

## TECHNICAL SPECIFICATIONS

- ✓ Suitable design for min. %1000 extension
- ✓ % 0.25 Accuracy, A type load cell (0,5 kN – 2000 kN)
- ✓ Traverse width: 200 – 2000 mm
- ✓ Crosshead speed : 0,001 – 1500 mm/min
- ✓ 0-5000 mm Compression range
- ✓ Extensometer option with micron sensitivity
- ✓ Video ext. for inner and outer diameter measurement.
- ✓ Servo motor or AC motor options
- ✓ Robust mechanical design for 50% overload
- ✓ Video extensometer (Optional)
- ✓ Special production low axial play (gapless) + bearing system
- ✓ Worm gear reducer / chain-triglar transmission system



- ✓ Hydraulic and pneumatic jaw options
- ✓ 4140 annealed special geometry grip parts
- ✓ 17 "touch screen PC control
- ✓ PLC system and communication software
- ✓ Electrical system for manual control

## ALARGE AL TEST – GRAPHICAL INTERFACE SOFTWARE

- Simultaneous viewing on the same graph of former test results
- Creating analysis and comment page
- Exporting results as MS Office ve PDF
- Report results in table form
- Min. 400 data storage in second
- Real-time fast data processing

# AL UN H RING STIFFNESS TEST MACHINE TECHNICAL SPECIFICATIONS

MODEL	AL-UN 5	AL-UN 10	AL-UN 20	AL-UN 30	AL-UN 50	AL-UN 100	AL-UN 200
Standards	ISO 527, ISO 6259, ASTM D 638, ASTM D 624, ASTM D 412						
Maximum Test Force	5 kN	10 kN	20 kN	30 kN	50 kN	100 kN	200 kN
Load Cell Sensitivity	% ±0,2						
Max Space Between Grips	100 cm	100 cm	1250	1250	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vertical Max Space	140 cm	140 cm	180 cm	250 cm	350 cm	400 cm	500 cm
Speed Range	1-1000 mm/min						
Speed Sensitivity	% ±0,1						
Position Sensitivity	10-100 micron						
Constraction	Single Column			Double Column			
Extensometer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inside Extensometer Inside Video Ext.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compression Cap	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pneumatic Conic Spherical Grips	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Special Grips	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Double Samples Part	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accessory Options	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control Panel	HMI Screen / PLC Control						
Graphic Software	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Transfer	USB, SD Card, Wi-Fi						
Supply Voltage	220 V			380 V			

Available  Optional  Not Applicable

\*Configurable graphic software according to user's preferences

## Technical Identity:

**Special design jaws. High sensivity, strong frame/special inner deflection measurement Servo motor and control.**

## Usage Identity:

**Long life, low service requirement and low maintenance cost, fast service system, special designs, easy sample connection. Database management, system network.**

