Hydraulic Cement Compression test machine with Touch Screen Controller (single piston)

İstanbul Yolu 27. Km Saray Mah. Aksoy Cad. No:53 Kazan / Ankara / TÜRKİYE
Tel : +90 (312) 815 56 20 Fax: +90 (312) 815 56 25

Capacity of Machine:	0-500 KN compression (contact us for different capacities)
Frame Type:	Rigid frame in 2-Column construction.
Controller:	Sematron Touch (Touch Screen)
Speed of Load Control:	0,05 kN/s – 25kN/s
Max. Compression Test Space:	Up to 210 mm (contact us for other dimensions)
No. of Channels:	2

General Specifications:

Hydraulic cement compression with Touch Screen controller test machine with **Instant-Servo Technology** (introduced by Besmak) has a closed - loop system, it means this machine works automatically.

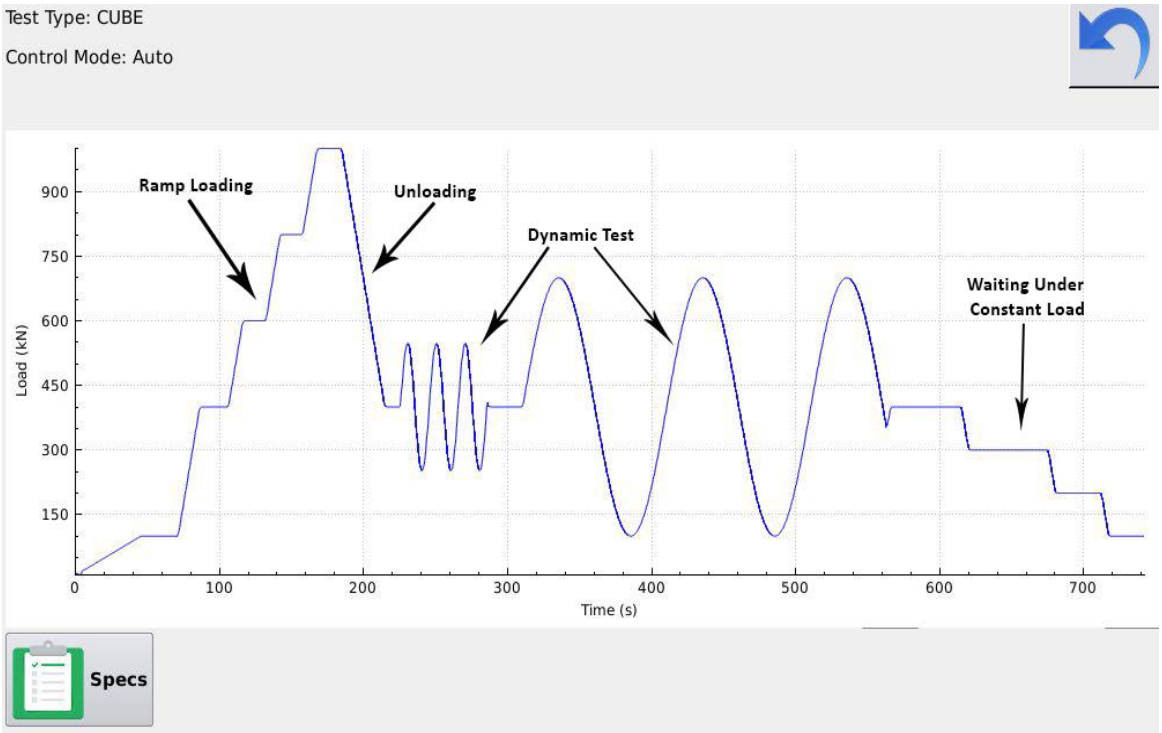
2-Coulumn Frame; every column has screws to adjust the frame for perfect calibration.

Upper platen is ball seat unit and lower platen is constant.
It has a limit-switch attached to the front door of the machine for safety (when the door is opened machine stops working)

The controller unit supports the loading force from 0.05kN/sec. to 25kN/sec.

At the end of the test process to start a new test the piston returns to default position.
Controller unit has a simple and compact configuration.

Software provides test data, results, and the load-time/stress-time graphs can be seen at computer and also can be saved or not according to requirement.

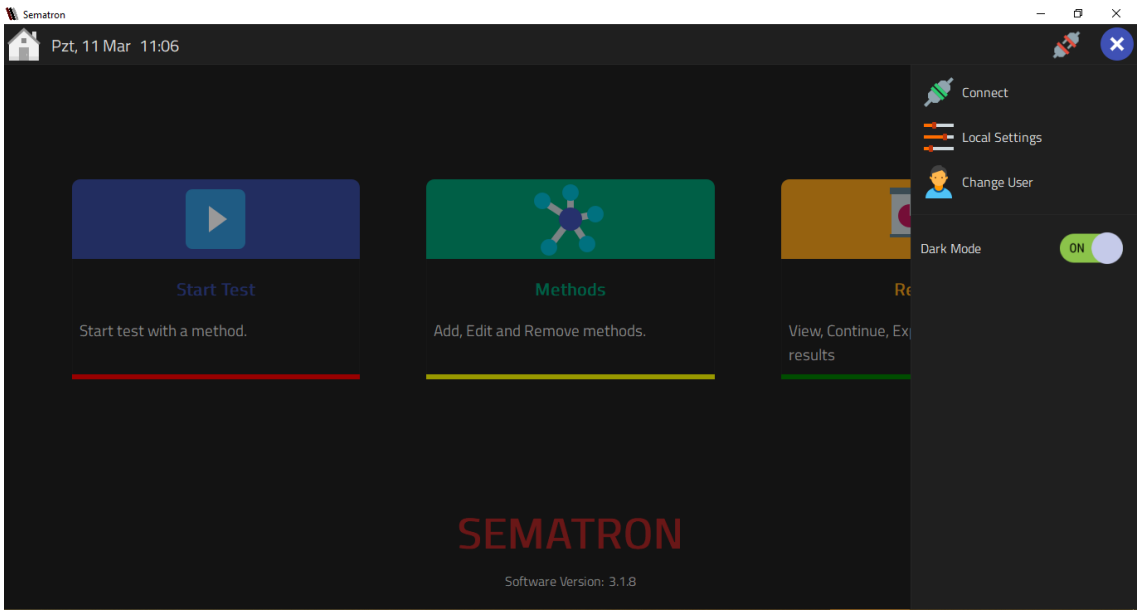


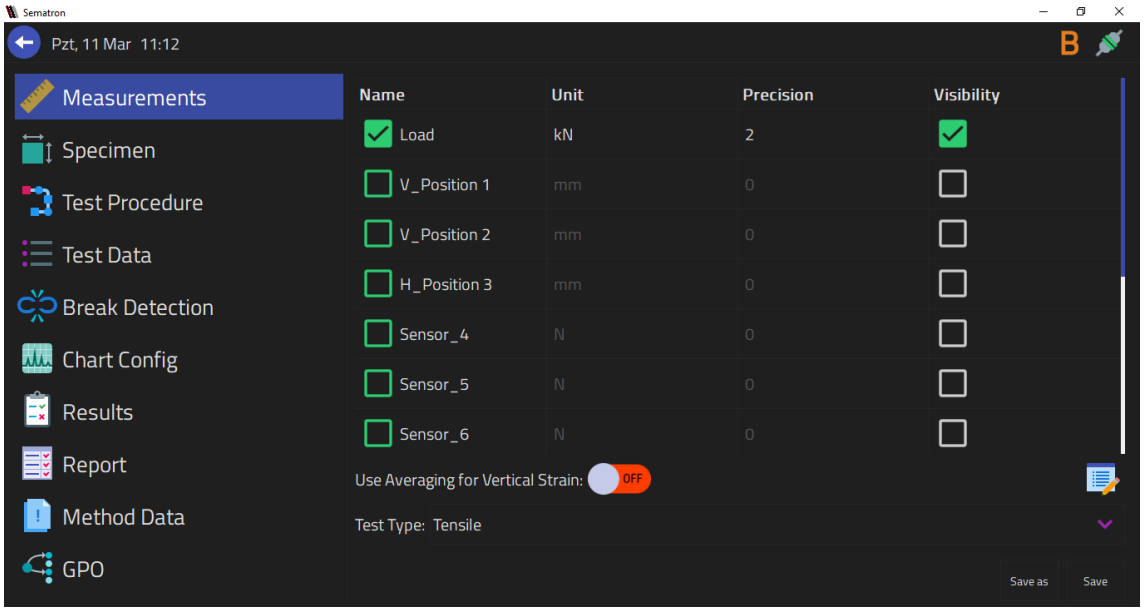
Controller Features:

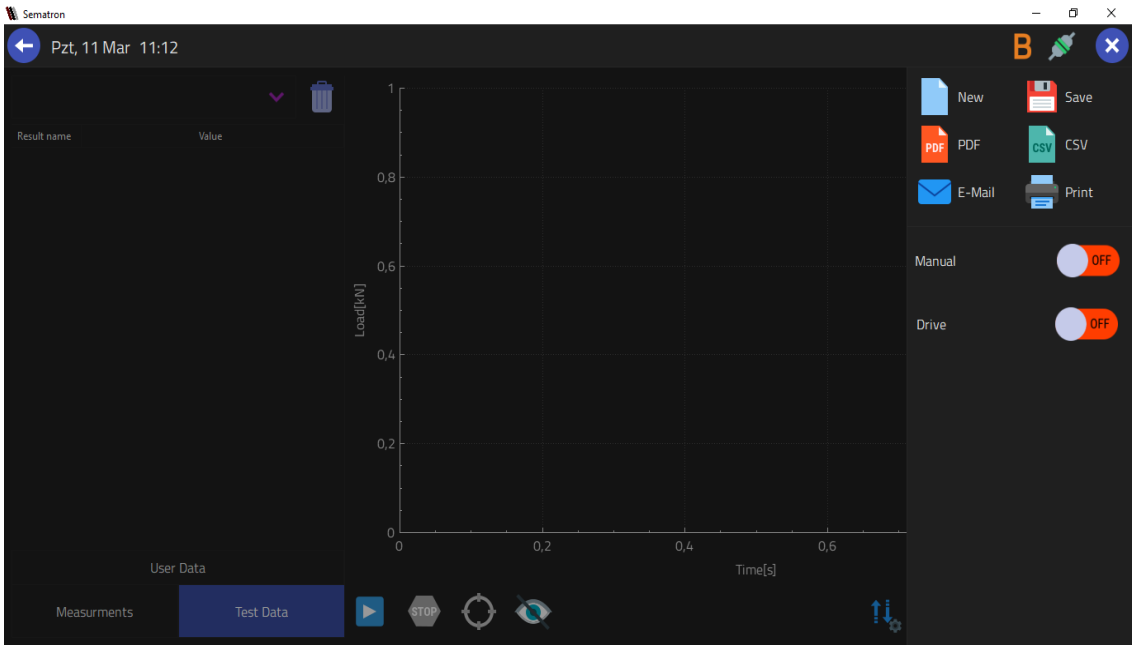
BESMAK Hydraulic cement compression / flexural machines are controlled by Sematron Touch Screen controller unit.

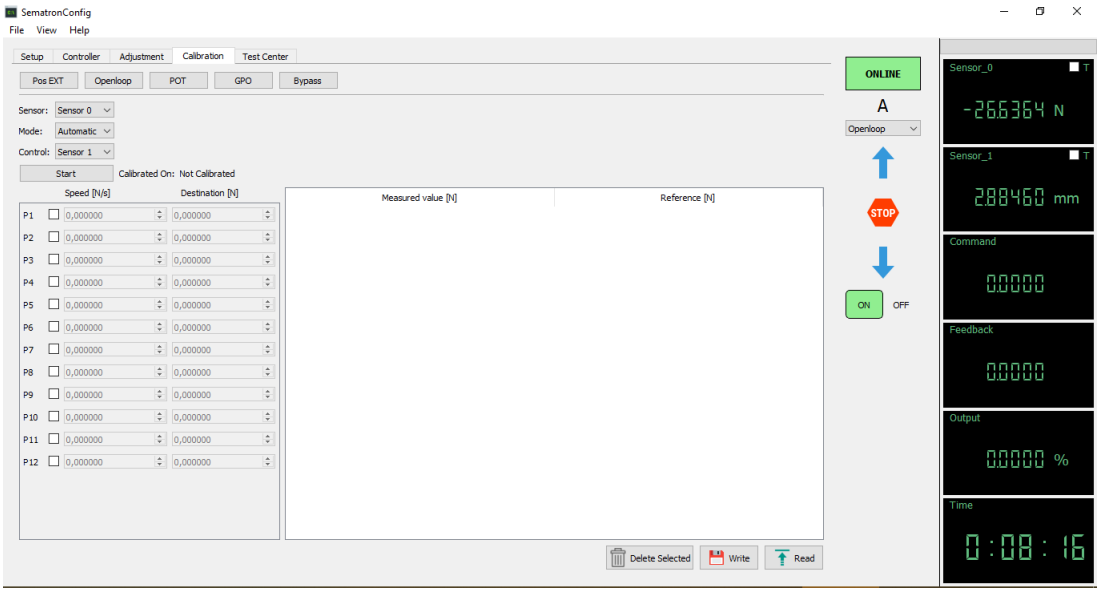
General Features of Data Acquisition and Control System:

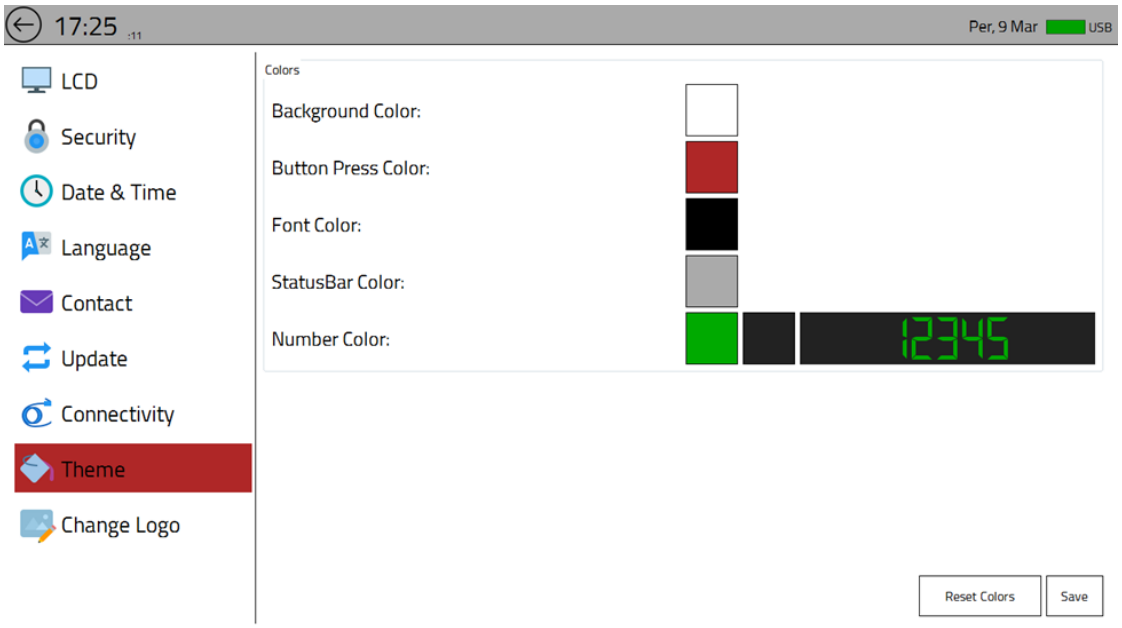
- Capacitive touch screen.
- USB port to get results directly from LCD without use of pc.
- Accurate loading.
- Email results directly from LCD.
- Software update feature.
- Remote help through internet from turkey.
- 4 channels.
- Automatic calibration
- Closed loop and open loop control
- Show results in pdf and can be converted in Excel
- Direct print feature from LCD
- Can connect to internet directly to the LCD through USB or LAN.
- User friendly, easy to customized.
- Communication with PC through LAN cable. Etc.

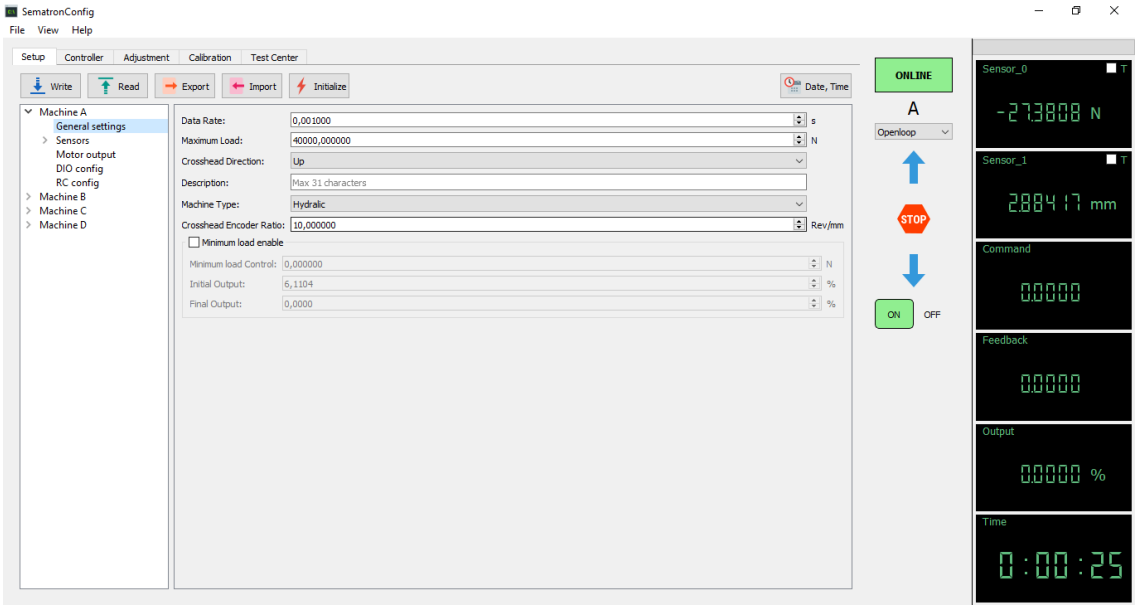


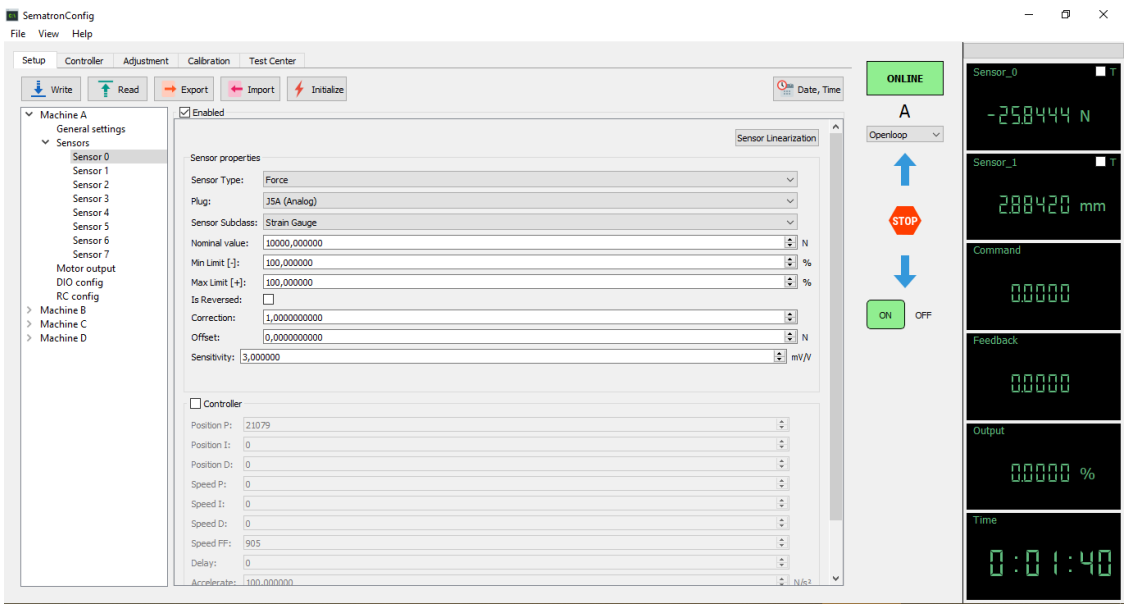

Sematron
Pzt, 11 Mar 11:12
Measurements
Specimen
Test Procedure
Test Data
Break Detection
Chart Config
Results
Report
Method Data
GPO
Name
Unit
Precision
Visibility
Load
kN
2
V_Position 1
V_Position 2
H_Position 3
Sensor_4
Sensor_5
Sensor_6
mm
N
0
Use Averaging for Vertical Strain:
OFF
Test Type: Tensile
Save as
Save


Sematron
Pzt, 11 Mar 11:12
Result name
Value
User Data
Measurments
Test Data
Load[kN]
Time[s]
New
Save
PDF
CSV
E-Mail
Print
Manual
OFF
Drive
OFF


SematronConfig
File View Help
Setup Controller Adjustment Calibration Test Center
Pos EXT Openloop POT GPO Bypass
Sensor: Sensor 0
Mode: Automatic
Control: Sensor 1
Start
Calibrated On: Not Calibrated
Speed [N/s]
Destination [N]
Measured value [N]
Reference [N]
Delete Selected
Write
Read
ONLINE
A
Openloop
STOP
ON
OFF
Sensor_0
-266364 N
Sensor_1
288460 mm
Command
00000
Feedback
00000
Output
00000 %
Time
0:08:16


17:25
Per, 9 Mar
USB
LCD
Security
Date & Time
Language
Contact
Update
Connectivity
Theme
Change Logo
Colors
Background Color:
Button Press Color:
Font Color:
StatusBar Color:
Number Color:
12345
Reset Colors
Save


SematronConfig
File View Help
Setup Controller Adjustment Calibration Test Center
Write Read Export Import Initialize Date, Time
Machine A
General settings
Sensors
Motor output
DIO config
RC config
Machine B
Machine C
Machine D
Data Rate: 0,001000 s
Maximum Load: 40000,000000 N
Crosshead Direction: Up
Description: Max 31 characters
Machine Type: Hydralic
Crosshead Encoder Ratio: 10,000000 Rev/mm
Minimum load enable
Minimum load Control: 0,000000 N
Initial Output: 6,1104 %
Final Output: 0,0000 %
ONLINE
A
Openloop
STOP
ON OFF
Sensor_0 T
-27,3808 N
Sensor_1 T
2,8841 7 mm
Command
0,0000
Feedback
0,0000
Output
0,0000 %
Time
0:00:25


SematronConfig
File View Help
Setup Controller Adjustment Calibration Test Center
Write Read Export Import Initialize Date, Time
Machine A
General settings
Sensors
Sensor 0
Sensor 1
Sensor 2
Sensor 3
Sensor 4
Sensor 5
Sensor 6
Sensor 7
Motor output
DIO config
RC config
Machine B
Machine C
Machine D
Enabled
Sensor Linearization
Sensor properties
Sensor Type: Force
Plug: JSA (Analog)
Sensor Subclass: Strain Gauge
Nominal value: 10000,000000 N
Min Limit [-]: 100,000000 %
Max Limit [+]: 100,000000 %
Is Reversed:
Correction: 1,0000000000
Offset: 0,0000000000 N
Sensitivity: 3,000000 mV/V
Controller
Position P: 21079
Position I: 0
Position D: 0
Speed P: 0
Speed I: 0
Speed D: 0
Speed FF: 905
Delay: 0
Accelerate: 100,000000
ONLINE
A
Openloop
STOP
ON OFF
Sensor_0 T
-25,8444 N
Sensor_1 T
2,8842 0 mm
Command
0,0000
Feedback
0,0000
Output
0,0000 %
Time
0:01:40