

# EQ21S-TS

Touch

INSTRUMENTATION  
FOR BALANCING  
MACHINES



**EBS**  
ELETTORAVA BALANCE SYSTEMS

# EQ21S-TS

Touch

The EQ21S-TS electronic instrumentation is an equipment based on an industrial computer with a special DSP (Digital Signal Processor) board and is used for measuring the unbalance for balancing machines with both hard and soft bearing pedestals, with vertical and horizontal axis. A special software with easy-to-use menu allows the operator to **set all the data of the rotor to be balanced** and to access all the functions of the machine in a simple and immediate way. It is suitable for solving the most demanding problems related to the measurement and correction of unbalances and can be easily connected to complex systems, PLCs or computer networks.



## General characteristics

- Windows 10 – IoT Enterprise
- Fanless CPU
- SSD removable storage memory
- 4 RS232 serial ports
- 2 LAN RJ45 ports
- 1 dual band wireless port 2.4 GHz and 5GHz (optional)
- 5 USB ports of which one on the front panel
- High resolution flat panel 17" TFT colour screen
- Touch Screen device integrated on the screen
- Possibility to connect an external printer
- Possibility of ethernet connection

# EQ21S

**EQ21S** is a high precision measuring instrumentation for balancing machines with both hard and soft bearing pedestals. It allows to solve problems related to the measurement and correction of unbalances for balancing machines with both hard and soft bearing pedestals, with vertical and horizontal axis. The unit is equipped with a sealed keyboard for the introduction of all the rotor data by means of a user friendly menu that allows access to all the functions of the machine in a simple and immediate way.

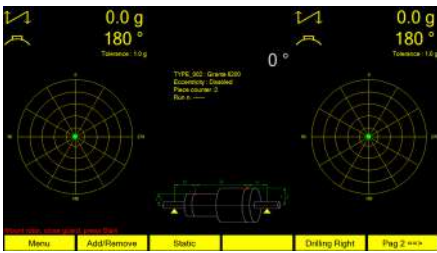


## General characteristics

- *Windows 10 – IoT Enterprise*
- *Fanless CPU*
- *SSD removable storage memory*
- *4 RS232 serial ports*
- *2 LAN RJ45 ports*
- *5 USB ports of which one on the front panel*
- *Mouse on front panel (only for EQ21S model)*
- *Sealed alphanumeric keyboard (EQ21S)*
- *High resolution flat panel 12" TFT colour screen*
- *Possibility to connect an external printer*
- *Possibility of ethernet connection*

# Software characteristics

1



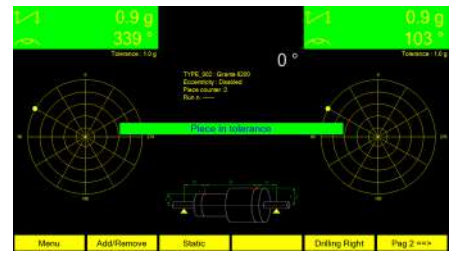
Screen waiting for measurement

2



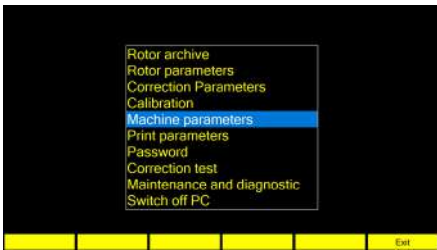
Unbalance values display at the end of the measurement.

3



End of balancing process with rotor in tolerance.

4



Main menu for rotor and machine parameters introduction.

5



Rotor selection from the machine archive.

6



Password introduction to allow access to protected parameters.

7



Parameter introduction for the rotor mounted on the machine.

8



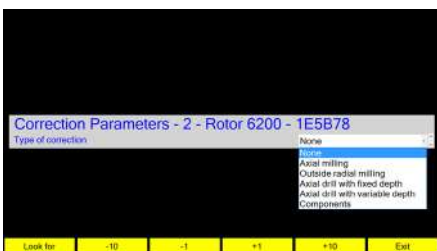
Parameter introduction for the rotor mounted on the machine.

9



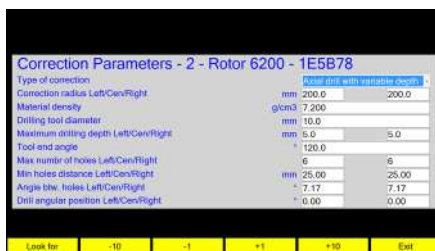
Unbalance tolerance calculation according to ISO 21940 standard.

10



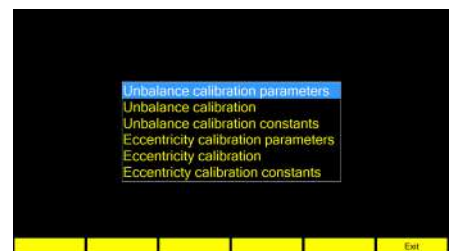
Menu for selection of unbalance correction method.

11



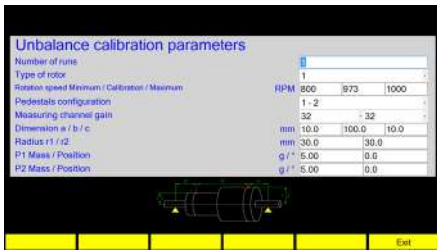
Correction type selection: axial drill.

12



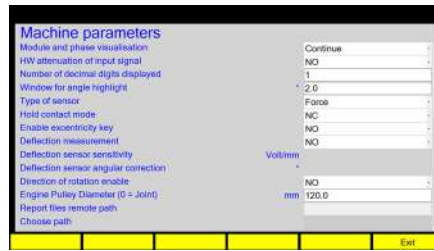
Calibration menu selection.

13



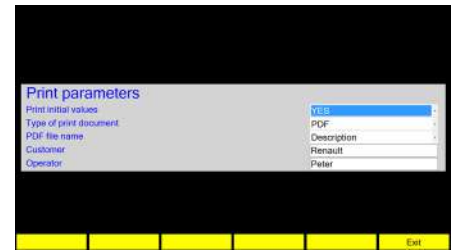
Introduction of rotor calibration parameters.

14



Introduction of machine parameters.

15



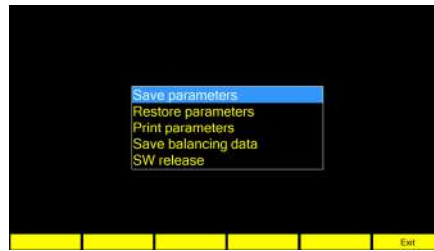
Introduction of print parameters for the balancing certificate.

16



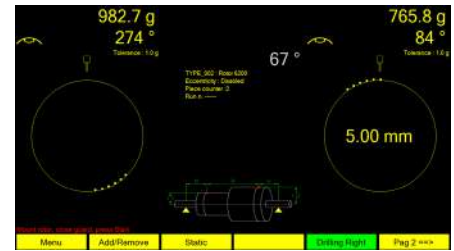
Single unbalance correction test.

17



Menu for saving parameters, maintenance and diagnostic.

18



Drilling correction and holes depth display.

## Optional software

Statistic software

Assisted correction software (drilling, milling, adding weights)

Software used to detect prohibited zones

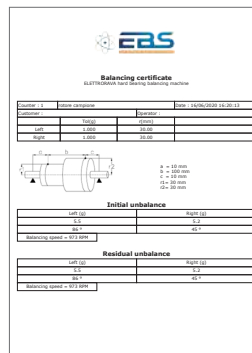
Integration with planning and scheduling software of MES (Manufacturing Execution System) production

Export of production data through XML files

## Accessories

### Customized certificate print

Possibility to print the customized balancing certificate.



### Printer (Optional)

- Max dimensions 400x300x200 mm
- Black & white / colors, ink jet, paper size A4



# Instrumentation support

We provide different types of instrumentation support according to the needs of the customer and the machine.



▶ Cabinet instrumentation



▶ Instrumentation on mobile hanging rack



▶ Onboard instrumentation



[www.ebs-balancing.com](http://www.ebs-balancing.com)

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