

# TSC BALCAB 91 – Balancing Module Cabinet

Tavator Sepahan Condition Monitoring Systems

## Description

TSC BALCAB 91 is an electronic module for measurement, signal processing, computation and displaying balancing result in a balancing machine. It receive 2 force, displacement, velocity or acceleration transducer channel for imbalance value and one tacho signal for phase reference and speed computation. This module can be used as a replacement of measuring and computation portion of old machine balances in a refurbishment process. Results displayed graphically and can be post processed for any analysis for implying correction masses to rotor. Final balance report can be printed as a balance certification. This module can be used for soft bearing and hard bearing balancing methods.



## Uses:

- Any hard bearing and soft bearing balancing machines.
- Refurbishment of old balancing machines.
- Certificate for balancing of rotors in balance shops.

## Specifications

Inputs	
<b>Force:</b>	2 Channel for • Any Force Transducers
<b>Vibration:</b>	2 Channel for • Proximity probe transmitter • Velocity pickups • Accelerometers
<b>Phase Ref &amp; Speed:</b>	• Tachometer • Photoelectric probe • Proximity probe
<b>Speed Range:</b>	• 60 ~ 20000 RPM
Signal Processing	
<b>Inputs:</b>	• 2 Dynamic Signal • 1 Tacho
<b>Filter:</b>	Tracking Filter
<b>LED Indicator:</b>	• Overload • Tacho
<b>Output:</b>	• RS232
<b>Gain:</b>	• Auto Scale
<b>Power:</b>	• 110~220 V AC
Computer	
<b>Computer:</b>	• 12.1" XGA HMI Touch Panel Computer with Onboard Intel® Atom™ D510 1.66 GHz Processor
<b>Parameters:</b>	• Large font digital (level) • bar graph (level, AI, Dan) • Machine, Point, FS Value

<b>System Memory:</b>	• DDR2 SODIMM, Up to 2 GB	<b>I/O Port:</b>	• USB2.0 x 4, RS-232 x 1, RS-232/422/485 x 1, LAN x 2, VGA x 1
<b>Storage Disk Drive:</b>	• 2.5" SATA Hard Disk Driver /CompactFlash™ Slot (Internal)	<b>Construction:</b>	• IP-65 certified Plastic front panel, Plastic back panel
<b>Dimension:</b>	• 12.5"(W) x 9.6"(H) x 2.5"(D)(317mm x 243mm x 64mm)	<b>Operating Temperature:</b>	• 32°F ~ 122°F (0°C ~ 50 °C) (Ambient with airflow)
<b>Display Type:</b> <b>Max Resolution:</b> <b>Max. Colors:</b>	• 12.1" TFT-LCD • 1024 x 768 • 16.2M colors	<b>Touchscreen:</b> <b>Resolution:</b> <b>Life time:</b>	• 5-wire, Analog Resistive • 2048 x 2048 • 35 Million activations

#### Keyboard, Mouse and Printer

<b>Type:</b>	• Nputel Technology, Vandal-proof Stainless steel keyboard with trackball, Model No. KB205 • Dustproof, Water proof, Vandalism resistance	<b>Dimensions:</b> <b>No. of keys:</b> <b>keyswitch lifetime:</b> <b>Printer:</b>	• 478mm x 135mm (front panel) • 106 keys, high quality stainless steel • > 5 million of operations. • Inkjet Color Printer
--------------	--	--	---

#### Physical

<b>Dimension:</b>	500 x 400 x 500 mm	<b>Weight:</b>	17 Kg
-------------------	--------------------	----------------	-------

#### Environmental Limits

<b>Operating Temperature:</b>	-5°C to +55°C	<b>Storage Temperature:</b>	-40°C to +75°C
<b>Operating Humidity:</b>	5% to 95% Non-condensing relative humidity	<b>Storage Humidity:</b>	5% to 95% Non-condensing relative humidity
<b>IP:</b>	IP 65		

Copyright 2012. All right reserved

Tavator Sepahan Co.  
Fanafarini No 1 Bldg, Isfahan Science & Technology Town (ISTT),  
IUT Blvd, Esfahan, Iran

Phone: 0098-311-3932080  
Fax: 0098-311-3932079

info@tavator.com  
www.tavator.com