



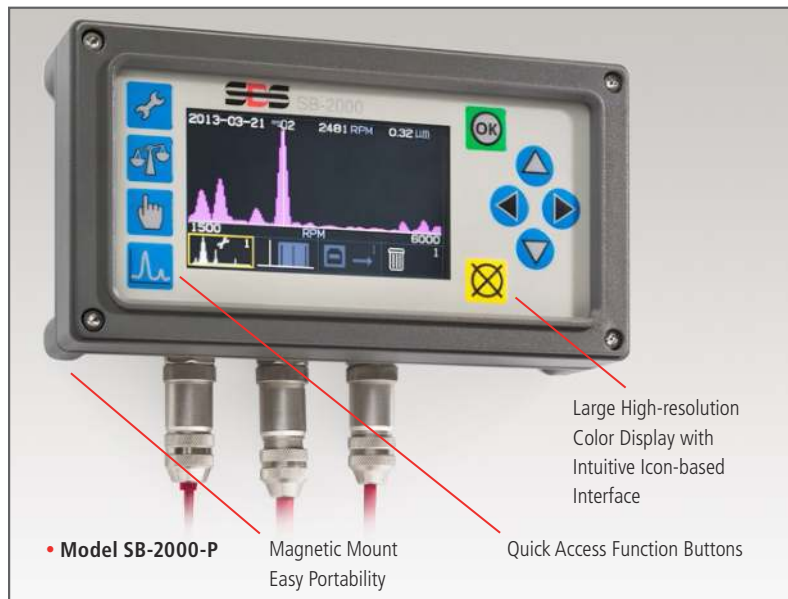
• Model SB-2000

MANUAL BALANCING
SINGLE OR DUAL PLANE

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IMPROVE PART
QUALITY FOR LESS

Model SB-2000/SB-2000-P Manual Balancing System



• Model SB-2000-P

Magnetic Mount
Easy Portability

Large High-resolution
Color Display with
Intuitive Icon-based
Interface

Quick Access Function Buttons

The portable SB-2000-P version attaches magnetically to any location for easy setup and use. The SB-2000 dedicated install version allows for CNC/PLC integration and for operators to set alert and alarm limits for tolerance and critical thresholds through the CNC/PLC interface. The USB port allows for exporting of balance data and settings and for updating of unit firmware.

BENEFITS

- Single or dual plane manual balancing
- Offered in both portable and fixed installation versions
- Easy to understand language independent symbol-based user interface
- Five balancing modes (single position, 2-weight, 3-weight, fixed position and circumferential arc)
- Measurement range of 30 to 100,000 RPM
- Store over 30 balancing profiles and vibration plots
- All digital design increases operating life and reliability
- Economical price
- Works with SBS fixed installations and accessories
- Easy CNC/PLC interface; USB 2.0 communication capability for firmware upgrades and retrieving stored data
- Backed by world-class and worldwide customer service

Single or Dual Plane Manual Balancing at an Economical Price.

The SB-2000 is an easy-to-use, compact manual balancing system offering both one and two plane manual balancing capabilities. It comes in a dedicated machine installation version (SB-2000) and a portable version (SB-2000-P), both at a very low price. In both versions this control provides exceptional balancing accuracy. It displays up to four digits for vibration and six digits for RPM, and supports a spindle speed range of 30 to 100,000 RPM.

With its digital design and intuitive icon-driven user interface, the SB-2000 is simple to set up and easy to use. Five balancing modes are supported (single position, 2-weight, 3-weight, fixed position and circumferential arc) with storage capacity for up to 30 balancing profiles for different machines or setups. The unit also allows spectrum vibration plots to be generated and stored.



SPECIFICATIONS

Physical

User Interface:

Universal icon-based (language independent)

Display:

Type: Color TFT LCD

Active area: 480H x 272V pixel

3.74 inch [95 mm] x 2.12 inch [53.86 mm]

Dimensions:

W x H x D: 210 mm x 112 mm x 33 mm

Power Input Requirements

Power Supply:

SB-2000: 24 VDC with terminal block connection, and M5 ground stud

SB-2000-P: 24 VDC with 8 pin M12 connector

Input Voltage:

+22VDC to +26 VDC at 0,75A max.

Surge protected

Negative protected (reverse protected from a non-grounded supply)

Fused

Communications Interfaces:

1 x USB 2.0

SB-2000: CNC/PLC hardwire interface (opto-isolated outputs)

Safety and Environmental

CE certified

RoHS compliant

Environmental and Installation Conditions:

Installation category I

IP54, NEMA 12

Environmental temperature range: 5 °C to +55 °C

Humidity: 0 to 85 % relative humidity

(non-condensing) throughout temperature range



The SB-2000-P model is available as part of the SB-2040 dual-plane kit:

Kit includes:

- SB-2000-P control unit
- SB-3420 Vibration sensor (2 ea.)
- SB-1802 RPM Sensor*
- SB-1916 RPM Cable
- SB-1799 RPM Sensor Stand
- SB-1875 Universal Power Adapter
- SB-1500 Carry Case
- MC-1716 Reflective Tape

*Sensor included is rated for applications up to 24,000 RPM. Contact SBS for assistance with higher RPM applications.

Performance

Balance methods supported:

Circumferential Weight > Single weight is positioned around rotor circumference.

Single Point > Single weight is positioned on the rotor face.

2 and 3 Slide Weight > 2 or 3 repositionable weights on a fixed diameter.

Fixed Positions > Multiple polar positions where weight can be positioned.

RPM Reporting:

30 to 100,000 RPM

Wide Vibration Range:

50 µg to 1,25 g

Vibration Display Resolution:

Four digit display, with display resolution to 0.001 µm

Vibration Display Repeatability:

6,000 RPM ±1 % @ 5.0 µm

30 – 100,000 RPM ±2 % @ 50:1 signal to noise

Genauigkeit der Vibrationsanzeige:

6.000 U/min ±2% bei 5,0 µm

30 – 100.000 U/min ±4% @ 50:1 signal to noise

Balance Resolution: 0.02 microns displacement at 6,000 RPM

Custom digital filter has bandwidth +/- 7% 0-40,000 RPM

+/- 14% 40,000+ RPM

For more information on SBS products, see accretechsbs.com to find your local SBS distributor or Representative, or call ACCRETECH.



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