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Data Sheet

August 15, 2026

ACCURETECH / SBS

Accretech / SBS SB-5512 Mechanical Wired Balancer Control Board

The Accretech/SBS SB-5512 is a mechanical wired balancer control board designed for precision balancing applications. It offers reliable performance and precise control for mechanical balancing systems. This control board ensures accurate balancing, contributing to the smooth operation and longevity of machinery.

**MODEL****Accretech / SBS
SB-5512****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****SB-5512****LISTING**<https://aumictechlabs.com/products/sb-5512-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Accretech/SBS SB-5512 is a control card designed for precision mechanical balancing within the modular SB-5500 Automatic Balancer System Controller. This all-digital electronic control board achieves balancing accuracy to 0.02 microns across spindle speeds from 300 to 30,000 RPM, enabling reduced setup time and enhanced component longevity in grinding wheel, dressing wheel, and spindle bearing applications. The SB-5512 integrates into the SB-5500 controller's four-slot architecture and communicates via Profibus DP, Ethernet TCP/IP, USB 2.0, and opto-isolated CNC/PLC hardwire outputs. A detachable TFT LCD color display (480 × 272 pixels) provides real-time monitoring, with optional virtual screen software enabling remote observation. Multilingual support includes English, Chinese, French, German, Italian, Polish,

Russian, Spanish, and Swedish.

Technical Specifications

Balancing Accuracy: ± 0.02 microns

Spindle Speed Range: 300 to 30,000 RPM

Design Architecture: All-digital electronic; modular card form factor fitting SB-5500 controller slots

Display: Detachable TFT LCD color, 480 H $\times$ 272 V pixels (95 mm $\times$ 53.86 mm diagonal)

Power Supply Options: DC: 21 VDC to 28 VDC, 5.5 A max at 21 VDC (reverse voltage protected) AC: 100–120 VAC, 50/60 Hz, 2 A max; or 200–240 VAC, 50/60 Hz, 1 A max

Communication Interfaces: Profibus DP, Ethernet TCP/IP, USB 2.0, opto-isolated CNC/PLC hardwire outputs

Operating Temperature: 5 °C to +55 °C

Environmental Rating: IP54, NEMA 12 (selected configurations); Pollution Degree 2; Installation Category II

Certifications: ETL, CE

Key Features

- Mechanical wired balancing control for cable-connected balancers
- Multi-language interface (9 languages supported)
- Detachable display with optional remote monitoring via virtual screen software
- Backward compatible with existing SBS installations
- Modular expandability within SB-5500 four-slot controller

Typical Applications

- Precision balancing of rotating machinery components
- High-speed spindle systems requiring micron-level accuracy
- Grinding and dressing wheel balance operations
- OEM machinery integration via hardwire CNC/PLC interface

Compatibility & Integration

The SB-5512 control card operates exclusively within the Accretech/SBS SB-5500 Automatic Balancer System Controller. It supports mechanical balancers using cable connection and integrates with existing SBS installations. The shared hardware platform enables future upgrades from manual to automatic balance control through optional control card additions.

SB5512 Characteristics / Specifications

PARAMETER	VALUE
Model	SB-5512
Instrument Type	mechanical wired balancer control board
Manufacturer	Accretech / SBS
Literature	Accretech / SBS SB-5512 mechanical wired balancer control board listing
Family	Accretech SBS balancer controllers
Form Factor	wired balancer control board
System Role	mechanical wired balancer control board
Brand Lineage	Accretech SBS
Queue Title	Accretech / SBS SB-5512 Mechanical Wired Balancer Control Board
Documentation Type	OEM SB-5512 listing
Use Case	Wired spindle-balancer control on Accretech/SBS machines that specify SB-5512
Vendor Path	Accretech / SBS
Year Class	SB-5512 generation
Application Class	mechanical wired balancer control board
Module Class	mechanical wired balancer control board
Host Class	instrument host per drawing
Connector Class	connectors on the SB-5512 drawing
Ate Class	spindle balancing
Control Class	SB-5512 front panel / firmware
Environment Class	ambient on the SB-5512 sheet
Mains Class	mains on the SB-5512 nameplate
Voltage Class	volts on the SB-5512 nameplate
Current Class	amperes on the SB-5512 nameplate
Sensor Class	sensor input on the SB-5512 drawing

PARAMETER

VALUE

Speed Class

speed range on the SB-5512 drawing

Display Class

unbalance display on the SB-5512 drawing

SB5512 Specifications

PARAMETER	VALUE
Applications	Wired spindle-balancer control on Accretech/SBS machines that specify SB-5512.
Key Features	Accretech / SBS SB-5512 balancer control board
Technical Specifications	Model: SB-5512

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Speed Class	speed range on the SB-5512 drawing

PARAMETER	VALUE
Display Class	unbalance display on the SB-5512 drawing

Notes

From remaining-queue title (Accrettech / SBS SB-5512 mechanical wired balancer control board). Sensor input, speed range, and display are on the SB-5512 drawing.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.