

SB-6500

In-Process Modular Controller



SB-6500 The Newest Modular Controller

Improving efficiency with real-time process monitoring –
Integrated balancing, acoustic emission monitoring
and in-process gauging

1



Gauge Module



Gauge Heads

2



AE Module



SBS AE Sensor

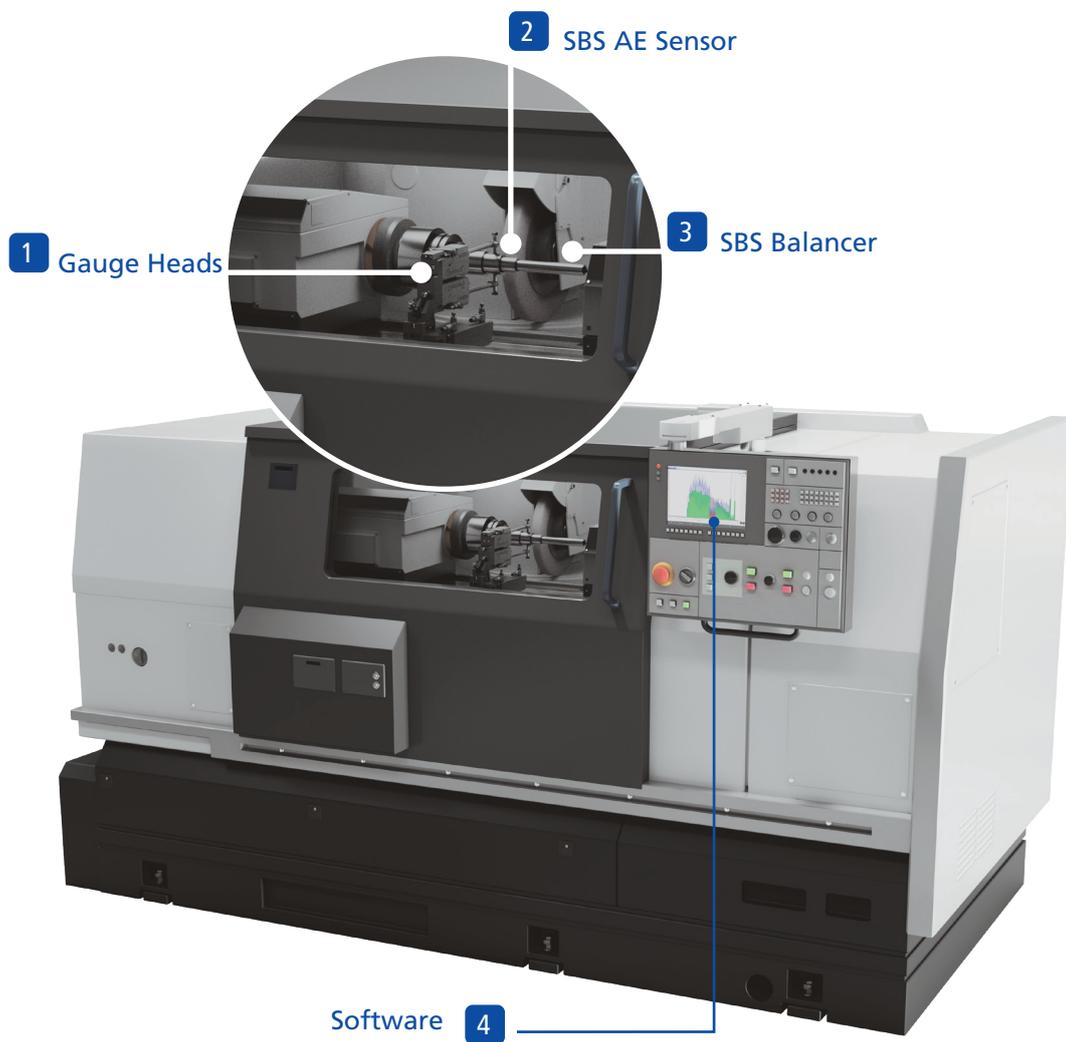
3



Balancer Module



SBS Balancer



A unified modular design

- Configure your system with only what is desired.
- The modular design makes customization simple.
- Process reliability improves. A defect in one module will not affect the rest of the system.

For In-Process Use



Improve Efficiency with Process Visualization

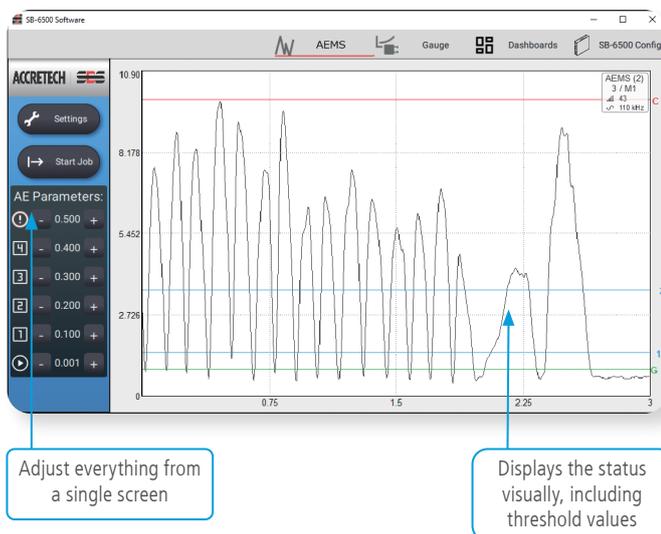
Visualize your grinding process with the new features of the display software

Main Data Output Information

All Modules:	Parameter values, settings log, Error log
Balancer Module:	Vibration Monitoring
AE Module:	Grind Monitoring
Gauge Module:	Dimension monitoring

Monitored Factor	Effect on Productivity and Quality
Error log	Allows checking of error type and frequency
Wheel Balance	Checks the wheel's imbalance while not grinding, sets a threshold above which balancing will occur
Irregular	Prevent process irregularities by analyzing the frequencies of vibration sources
Dimension Graph	Save dimensional data for each process to a CSV file, allowing for analysis of past data when irregularity occurs
Dimensional	Understand the stability of your grinding process based on frequency and offset amount.
AE Wave FFT Analysis	Helps evaluate AE waves in the process to identify unique frequency bands that can improve grinding efficiency.

AE Sensor Function Screen



In-Process Gauge Function Screen

Frequently used settings appear here. Icons help with identifying which feature is which

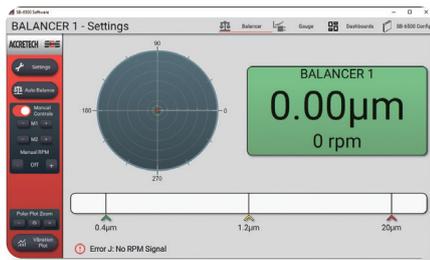
Process display buttons are here for ease of use

Layout uses a progress bar to effectively show the processing situation

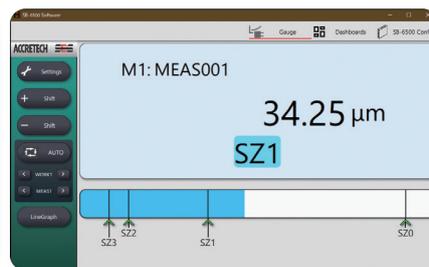
Gauge Module Measured Value Display

Gauge Module Settings Screen

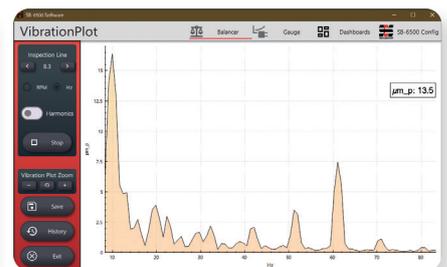
Additional Functions



Polar Coordinate Display for Balancing



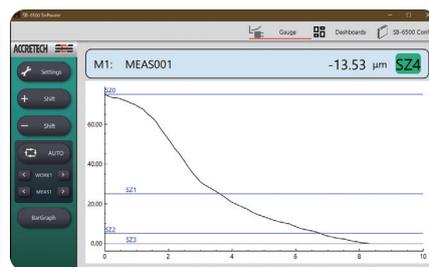
In-Process Gauging Status



FFT Display - Vibration Analysis



Manual Balancing Display

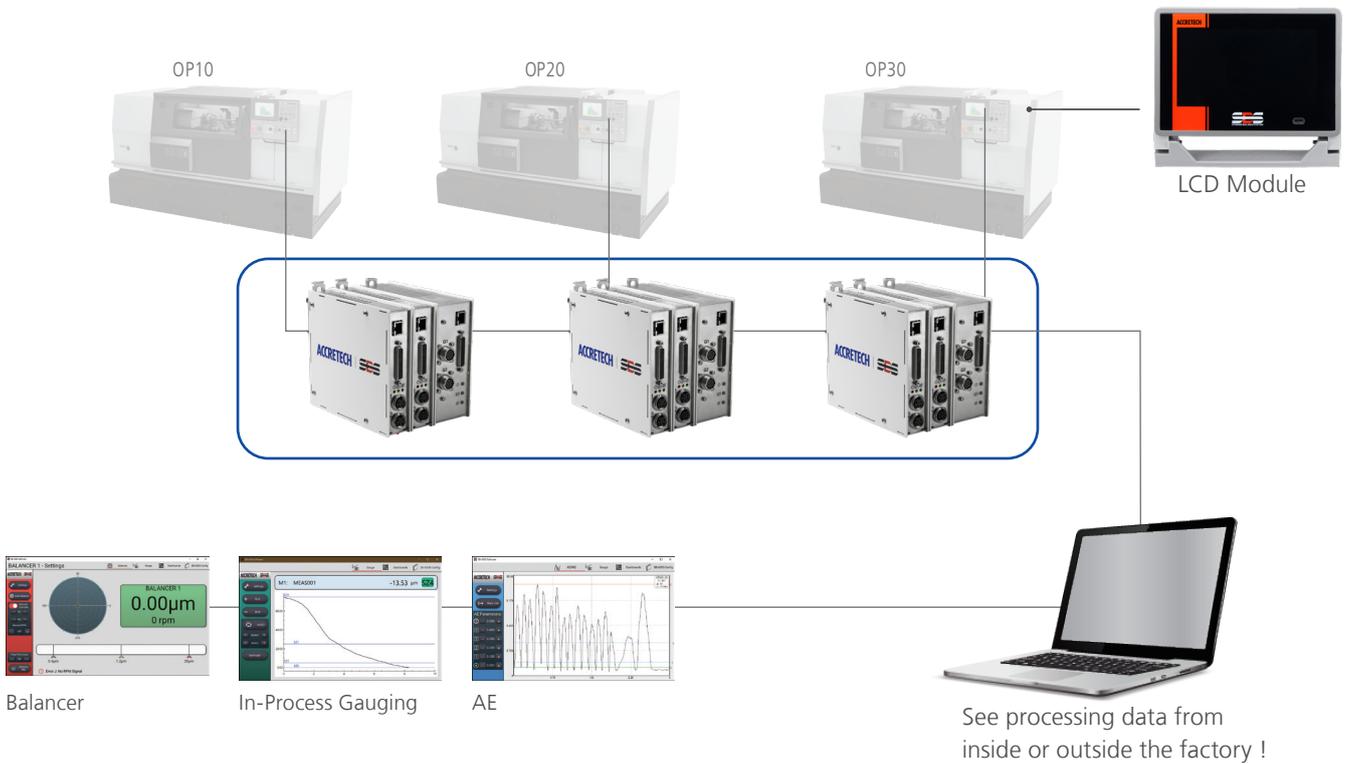


Processing status graph

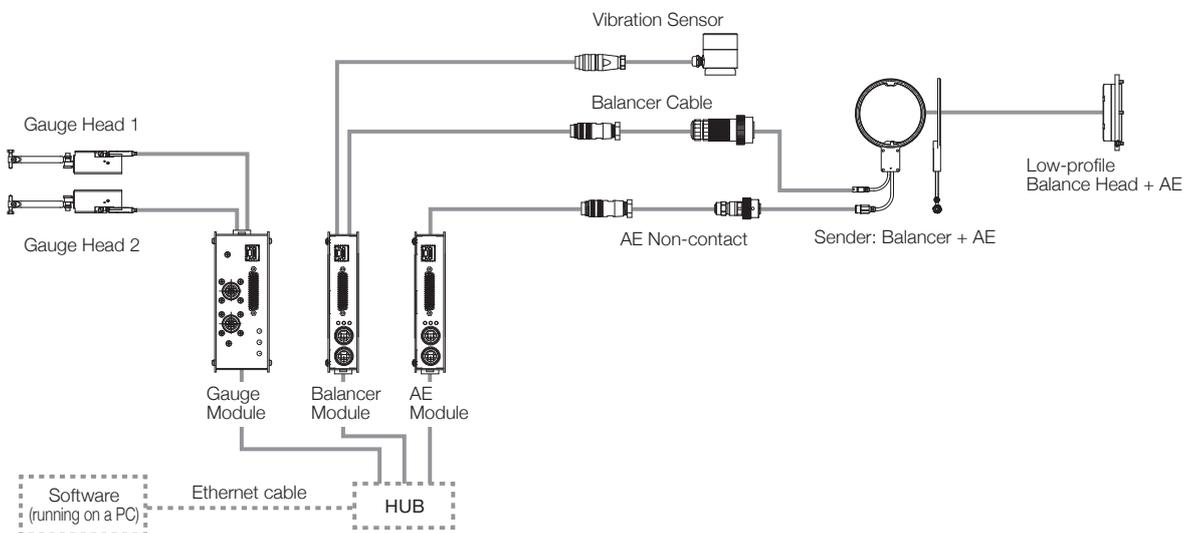
Increase productivity and maintainability

OPC UA Standard | Industry 4.0 communication protocols

- Move data from the SB-6500 to external systems in a safe and standardized way.
- Because data can be easily shared with different makers and systems without relying on a specific platform, it can be easily connected to systems both inside and outside the factory.
- Real-time data monitoring, analysis, and remote control is now possible.
- There are no limits on the number of modules or computers you can connect to your system.
Process status can be checked from an off-site office just as easily as from the factory floor.



Setup Example



Specification

Information	Gauge Module
Product No.	SB-6571
Use	In-Process Gauging System
Dimensions	W:59 mm x D:170 mm x H:159 mm
Power Supply	24 V DC
Display	None
Measured Value Output	Supports $\pm 50 \mu$, $\pm 100 \mu$, $\pm 250 \mu$, $\pm 500 \mu$, $\pm 1000 \mu$
Output Resolution	Select from 0.01 μ m, 0.1 μ m, 1 μ m
Judgment Output	Measurement Item 1:SZ0 ~ 7 Measurement Item 2:SZ0 ~ 7
Compatible Gauges	LVDT
Size Shift Type	Digital
Connected Cables	2
External Interface	Ethernet (OPC UA), I/O

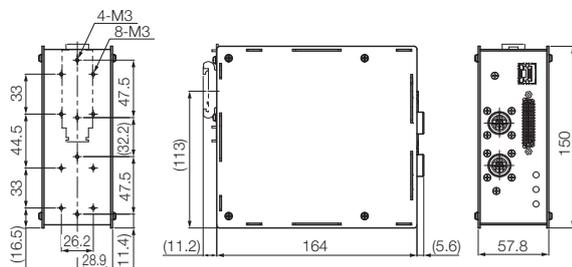
Information	Balancer Module	
Product No.	SB-6518	SB-6532
Use	Auto-Balancer System	
Dimensions	W:32 mm x D:164 mm x H:150 mm	
Power Supply	24 V DC	
Display	None	
Vibration Value Output	0.001 ~ 99.99 μ m	
Vibration Resolution	0.001 μ m	
Display Units	μ m, mil, μ m/s, mil/s, rpm, Hz	
Compatible Balancers	Cable / Hydrocompensor	Non-Contact
Connection Points	1	
External Interface	Ethernet (OPC UA), I/O	

Information	LCD Module
Product No.	SB-6550
Use	User Interface
Dimensions	W205 mm x D38.4 mm x H141 mm
Power Supply	24 V DC
Display	7" Wide LCD
OS	Yocto Linux
External Interface	Ethernet (OPC UA), USB x 3

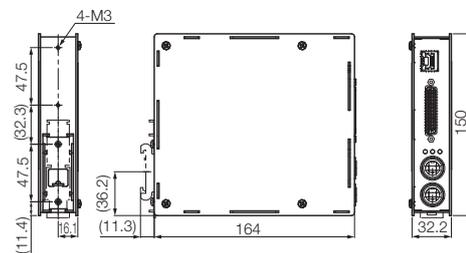
Information	AE Module	
Product No.	SB-6522	SB-6560
Use	Acoustic Emission System	
Dimensions	W:32 mm x D:164 mm x H:150 mm	
Power Supply	24 V DC	
Display	None	
Vibration Resolution	0.001	
Compatible Sensors	Fixed Type, Shaft-End Type, Ring Type, In-Spindle Type	
Connection Points	2	
External Interface	Ethernet (OPC UA), I/O	

External Diagram

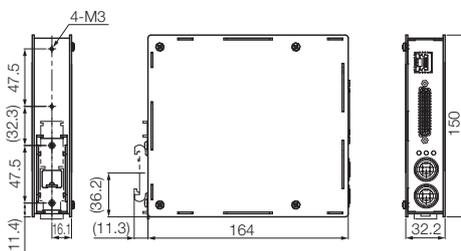
◆Gauge Module



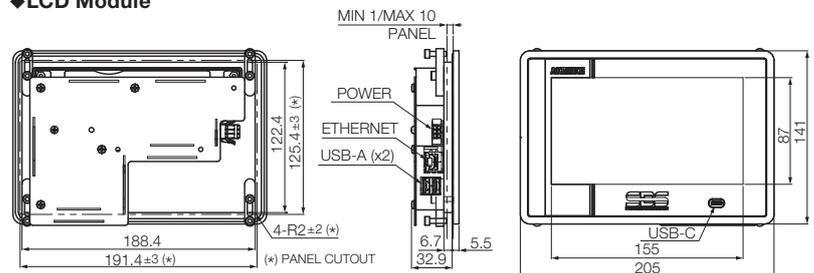
◆AE Module



◆Balancer Module



◆LCD Module





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