

The World's
Best Automatic
Balancer ...
Just got better.

Installs in Minutes – *Balances in*

FEATURES:

- Balances in seconds
- Eliminates wheel vibration
- Balances wheel on machine
- Fits most machines
- Easy installation
- Compact/Modular
- Monitors balance automatically
- Displays english (mills) or metric (microns)
- Instrument grade calibration
- Measures displacement or velocity
- Upgradeable/Multichannel
As many as 4 balancers

BENEFITS:

- Saves time
- Improves part quality/
Maximizes machine efficiency
- Eliminates static balancing
- Easily adaptable
- Minimizes downtime
- Complete, ready to install kit
- Longer life for wheels, dressing diamonds & spindle bearings
- International adaptability:
Voltage, Frequency and Language
- Greater accuracy/
Balances to .02 microns
- Provides choice to satisfy operators requirements
- Minimizes cost of Multi Machine Balancing

The Best balancer just got better. SBS has taken balancing grinding machines to a new level of accuracy (.02 microns), speed (300 to 30,000 RPM) and convenience. With a new Electro luminescent display the SB-4500 model balancer puts more control and information at your fingertips. Quicker setups and dynamic graphic displays keep you well informed and in total control. The system is elegantly simple; a computer control, sensor, spindle mounting adapter, and balance head. It is designed as an inexpensive, permanent installation on grinding machines. It takes the magic out of wheel balancing. Fully automatic operation means you no longer need to pre-balance grinding wheels, and eliminates the need for awkward equipment, which only does part of the job.

Computer Control SB-4500

2. Menu Selection Buttons

1. Power ON/OFF

3. Menu List

4. Graphic & Data
Display Area

5. Status Indicators

Adapter Nut

Sensor

Balance Head Cable



Seconds

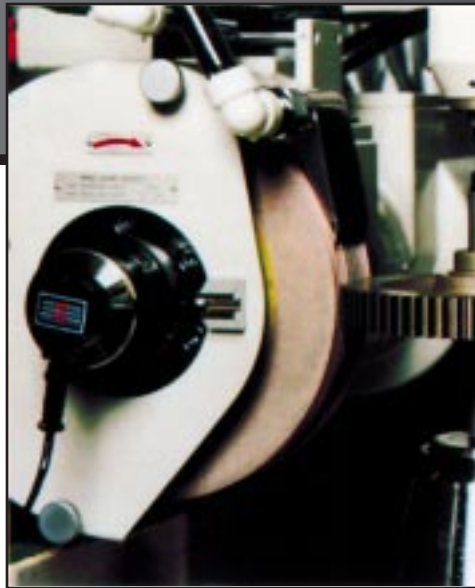


Systems are available to fit machines with wheel diameters from (6" to 48" /150mm to 1200mm). They interface with CNC machines and can be designed into every QC/SPC program that includes grinding. You purchase the SBS System as a retrofit package or as an option from most machine builders.

When you compare the cost of SBS to the cost of finished parts in the rework or scrap bins, it doesn't take long to decide you need one on every grinder in your plant. Contact your nearest SBS representative for an informative demonstration of the new breakthrough in automatic balancing.

SYSTEM PRINCIPLES

The SBS Dynamic Balance System operates on a principle of mass compensation for wheel imbalance. The balance head contains two movable eccentric weights, each weight is driven by electric motors through a precision gear train.



These weights can be repositioned to offset any imbalance in a grinding wheel.

Imbalance or vibration is picked up by the sensor. The signal is fed to the controller, which filters the signal by RPM. The controller then drives the two balance head weights in the direction that reduces the amplitude of the vibration signal. When the weights are positioned so the lowest vibration level is reached, the balance cycle is complete.



Balance Head compensates for wheel imbalance. Balance is maintained even if wheel is stopped and re-started.

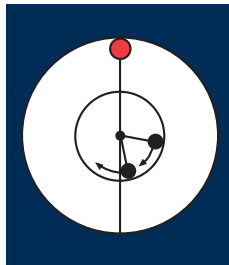


Sensor monitors vibration levels with precision accuracy. It can be mounted with the magnet supplied or the magnet easily un-screws for stud mounting.

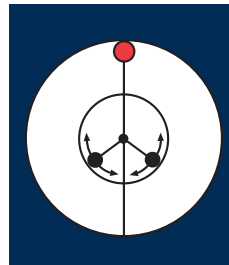


Adapter Flange

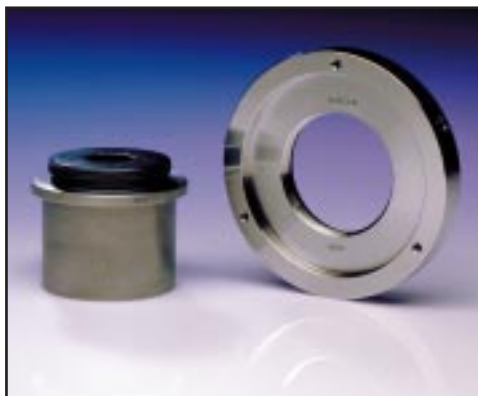
Balance Head



UNBALANCED



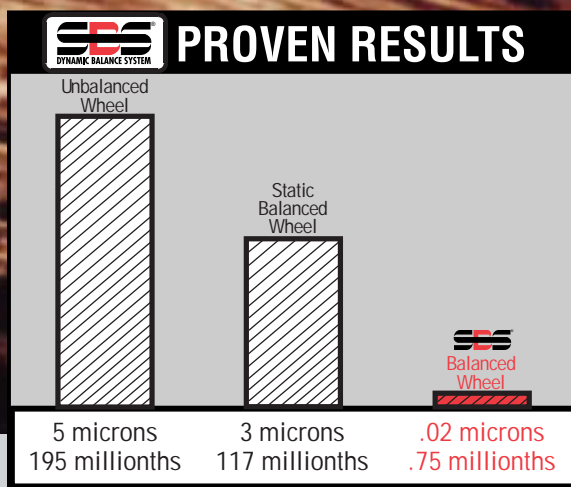
BALANCED



Spindle Adapter joins your machine to the balance head. It allows easy removal of the balance head for quick wheel changes.



Computer Control features a bright graphic display in a sealed enclosure suitable for the harshest of grinding environments.



Schmitt Industries designs and manufactures a line of dynamic balance systems that cover diverse industry needs, both domestic and international. They have been proven in thousands of major manufacturing installations. These systems are made in the U.S.A. and Germany to strict ISO 9001 quality standards. The technology is light years ahead of static grinding wheel balancing methods. Most of our customers are sold on the spot when they see how quickly our products install and how well they work. Your local Schmitt representative can arrange for a free demonstration or you can contact us direct.



SCHMITT HOFMANN SYSTEMS GMBH
 Schwingungsmeßtechnik
 Birkenweg 8
 D-64665 Alsbach
 Germany
 Telephone +49-6257-9351-0
 Telefax +49-6257-9351-23

SCHMITT INDUSTRIES, Inc.
 Corporate Office
 2765 NW Nicolai Street
 Portland, OR 97210 USA
 Telephone +1-503-227-7908
 Telefax +1-503-223-1258

SCHMITT EUROPE LTD.
 University of Warwick Science Park
 Sir William Lyons Road
 Coventry, CV4 7EZ
 United Kingdom
 Telephone +44-1203-697192
 Telefax +44-1203-412697