

SOKKIA

Precision &
Reliability



Surveying Instruments

B Series
B20 • B30 • B40

Automatic Levels

World-Proven Precision and Durability

B20
Automatic Level



B20
32x
Telescope

B20
0.7mm
Accuracy

B30
Automatic Level



B30
28x
Telescope

B30
1.5mm
Accuracy

B40
Automatic Level



B40
24x
Telescope

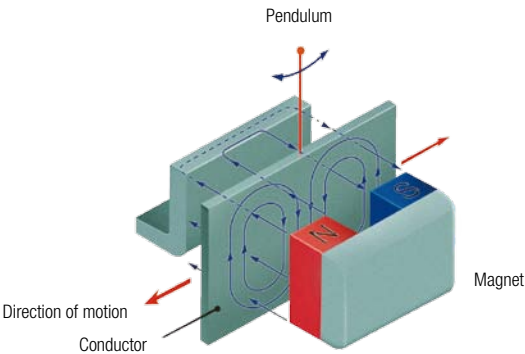
B40
2.0mm
Accuracy

IP
X6

Sokkia B series automatic levels feature enhanced reliability under all environmental conditions. Tough and compact bodies are tightly sealed against water, humidity and dust (IPX6). The B series levels provide quick setup, easy sighting, and superior durability against vibration and shock, ensuring the increased productivity over long periods of time.

Precise and Reliable Automatic Compensator

The B series levels incorporate the most precise and reliable compensator available in the market today. Four super-high-tensile suspension wires and magnetic damping system ensure accuracy and stability even when exposed to temperature changes, vibrations, or shock.



Superior Telescope

The optimally designed telescope provides an exceptionally bright and sharp view that reduces operator's eye strain. Ultra-short focus distance of 20 cm from end of telescope makes it easiest to use in confined spaces. Two-speed focus knob switches between coarse and fine for even faster operation (B20).

Quick Collimation

The endless horizontal motion drive screw can be operated with either hand for fast and easy aiming.



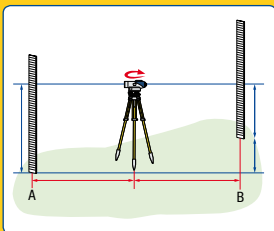
Horizontal Angle Measurement

Horizontal angles can be read in 1° or 1gon units. The freely rotatable circle allows any angle reading from zero. Right angles can be quickly set for layout and alignment tasks.



Rapid Setup

Sokkia's B Series fit both domed and flat head tripods. The circular level can be seen on a pentaprism or plane mirror located beside the telescope eyepiece.



Stadia

The stadia lines on the reticle allow distance measurement to be carried out. Simply multiply the staff length between the top and bottom stadia lines by 100.



Optional Accessories

Diagonal Eyepiece DE16 (B20)

Ideal accessory for working on jobsites where there is little space to move.



Optional Accessories

40x Removable Eyepiece EL5 (B20)

Increases the standard 32x magnification to 40x.



Optional Accessories

Diagonal Eyepiece DE22 (B30/B40)

A diagonal eyepiece facilitates work in tight spots with little space behind the instrument.

Standard Equipment

- Instrument
- Lens cap
- Plumb bob
- Vinyl cover
- Cleaning cloth
- Tool kit
- Operator's manual
- Carrying case



Specifications

	B20	B30	B40
Telescope			
Length	215 mm		
Magnification	32x	28x	24x
Objective aperture	42 mm	36 mm	32 mm
Resolving power	3"	3.5"	4"
Field of View (at 100 m)	1°20' (2.3 m)	1°25' (2.5 m)	
Minimum focus	0.2 m from end of telescope 0.3 m from instrument center		
Image	Erect		
Reticle pattern	Wedge	Cross line	
Focusing knob	2-speed	1-speed	
Sighting aid	Peep sight		Gun sight
Accuracy (standard deviation for 1km double run leveling)			
Without micrometer	0.7 mm	1.5 mm	2.0 mm
With micrometer	0.5 mm		
Compensator			
Type	Pendulum compensator with magnetic damping system		
Setting accuracy / range	0.3" / ±15'	0.5" / ±15'	
Horizontal circle			
Diameter	103 mm		
Graduations	1°/ 1gon		
General			
Horizontal motion drive	Clampless, endless, double-sided knobs		
Water resistance	IPX6 (IEC 60529:2001)		
Operating temperature	-20 to +50°C		
Size (w x l x h)	130 x 215 x 140 mm		130 x 215 x 135 mm
Weight	1.85 kg	1.7 kg	

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SOKKIA CO. LTD., founded in 1920 in Japan, is a leading manufacturer in developing complete measurement solutions for surveying, construction and industrial measurement applications. Sokkia's portfolio includes GNSS systems (Global Navigation Satellite Systems), reflectorless and robotic total stations, digital theodolites, automatic/digital levels, rotation/line lasers and software.



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