



Carrying case
Instrument and all accessories are stored in an carrying case

Field Balancer for General Rotating Machinery and High Precision Grinders



SB-8802series

SB-8000series

transfer data		初期測定							
測定日	時刻	機種名	測定	VIB-1	VIB-2	VIB-3	VIB-4	VIB-5	VIB-6
2015/9/9	9:54:13 AM	Model001	119892	1101	0145	3001	0378		
2015/9/9	9:54:13 AM	2	Model001	119900	178	031	200	0529	
2015/9/9	9:54:13 AM	3	Model001	12981	128	1361	154	0899	
2015/9/9	9:54:13 AM	4	Model001	13692	104	0495	173	029	
2015/9/9	9:54:14 AM	5	Model001	15908	147	129	176	093	
2015/9/9	9:54:14 AM	6	Model001	15976	119	1744	148	0571	
2015/9/9	9:54:14 AM	7	Model001	16988	93	1574	140	0371	
2015/9/9	9:54:14 AM	8	Model001	117985	185	1277	172	0282	

Model	AC powered Battery powered	SB-7705R	SB-7705RH	SB7705RS	SB-7705RL
		SB-7705RB	SB-7705RHB	SB-7705RSB	SB-7705RLB
Range of Measurement	Balancing Speed *1	180 to 61,000min ⁻¹	180 to 120,000min ⁻¹	180 to 240,000min ⁻¹	60 to 61,000min ⁻¹
	Resolution of rotational speed display	1min ⁻¹			
	Amplitude range of synchronized vibration	0.001 to 999µm(at 6,000min ⁻¹)			
	Resolution of vibration	0.001µm			
Correction method	Vibration input channel	AC Type:2ch, 4ch, 6ch (factory option) / Battery Type:2ch			
	Measuring method	Multi-speed Least square method, Conventional fixed-speed method			
	No. of Correction plane	1, 2, 3 or 4 selectable			
	Polar coordinates	0° to 359° (angle resolution: 1°)			
Vibration analysis function	Components of unbalance vector	3 to 50			
	Correction weight	Add / Remove			
	Unbalance Vibration Analysis	0.001 to 999µm (at 6,000min ⁻¹)			
	Harmonic analysis	0.001 to 999µm (at 6,000min ⁻¹)			
Others	FFT Analysis (Optional)	Maximum analysis frequency: 20kHz			
	Overall amplitude monitoring	Acc. P, Acc. RMS, Acc. CF, Vel. R, Disp. EQP (range Acc: 0.1 to 40m/s ²)			
	Time domain Waveform (Optional)	800 lines max.			
	USB memory port	AC Type: Available as standard / Battery Type: N/A			
Standard accessories (one each)	USB interface	USB mini-B connector (transfer to PC for data and Screenshots)			
	microSD card slot	AC Type: N/A / Battery Type: Available as standard			
	Eccentricity compensation	Available as standard			
	Measuring range selection	Automatic ranging			
	No. of stored work data	8(4)/2**	8(4)/2**	4(2)/2**	8(4)/2**
	Graphic display	5.7" TFT color LCD (LED back light)			
	Set up operation	Dialog with touch screen			
	Power supply	AC type: AC 100 to 240V ±10% 50/60Hz Battery type: Li-Ion battery (Operating time: up to 10hours), AC 100 to 240V ±10% 50/60Hz			
	Environment	Temperature: 10 to 40°C, Humidity: 20 to 80%RH (Non-condensing)			
	Dimension of measuring unit	AC type: 204(W) × 71(L) × 137(H)mm, (105(L)mm for printer option) Battery type: 187.5(W) × 53(L) × 130(H)mm			
	Mass of measuring unit	AC type: Approx. 1.7kg (2.2kg for printer option) Battery type: Approx. 900g			
	Dimension/Mass of Carrying case *3	AC type: 455(W) × 185(L) × 320(H)mm Approx. 8.0kg Battery type: 385(W) × 120(L) × 255(H)mm Approx. 4.2kg			
Optional	Vibration sensor	P125C (Sensitivity: 10pC/(m/s ²))		P125C (Sensitivity: 10pC/(m/s ²))+V10L**	
	Fixing magnet	KM-025C (Holding force: 100N)			
	Sensor cable	LN-041 (2.5m straight)			
	Rotation sensor	SFS-M1H (with 2m cable)			
Optional	Manual of rotation sensor	Manual and an adjusting driver			
	Fixing magnet stand	AC Type: DG1030 (Holding force: 800N) / Battery type: NF2021 (Holding force: 320N)			
	AC adapter	US31806 (DC5V 2.8A)			
	Circular protractor	822-0001 (φ150mm)			
Optional	Manual	CD-ROM, Digest booklet			
	Unbalance correction with 3 weights (G, GW)	Balance weights arrangement for grinding wheel (G: 1-plane, GW: 2-plane)			
	Vibration input channel	2ch, 4ch, 6ch (AC type only)			
	Built-in printer(P)	Mechanical dot printer (AC type only)			
Additional sensor for multi-point measurement	Vibration sensor: P125C with cable: LN-041 (2.5m)				

*1 In case of multi-speed measurement, lower limit is 600min⁻¹. *2 values in parenthesis are for 6 channel input option *3 Mass of carrying case with main body and all accessories.
*4 Model SB-7705RL and SB-7705RLB attach an additional vibration sensor for low speed (model V10L), cable and mounting magnet.

Specifications may be changed without any notice due to modification, etc.



Balance Monitor

SB-7705series

The Field Balancer suitable for Flexible Rotors and High Precision Machinery

Multi-speed multi-plane balancing capability performs flexible rotor balancing and suppressing vibrations in all three directions (XYZ).

Improved performance, twice* processing speed and 0.2 times* resolution

*compared with conventional model

For Balancing of both rigid and flexible rotors

All vibrations are suppressed at specified range of rotational speed

Predicting function of residual vibration

High efficiency balancing can be performed with prediction of residual vibration

Screen capture is available

FFT analyzer is installed as standard

USB port is equipped as standard

Data can transfer to PC via USB port.

Lissajous Curve Display Function

Continuously displays Lissajous curve at each rotational speed.

Visual verification of shaft center locus.



RoHS
SB-7705RB series
Battery and AC powered model

CE
RoHS
SB-7705RS series
AC powered model



optional
Built-in printer



One vibration sensor is attached as standard.



Carrying case

