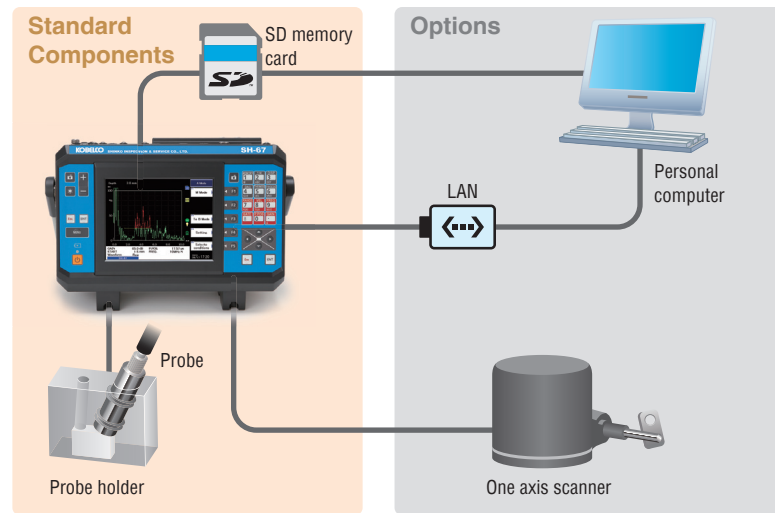


Equipment Configuration



Standard Components

SH-67:	1
Probe:	1
Probe holder:	1 (designed and manufactured for each work)
Probe cable and other attachments:	1 set
Battery:	1
AC adapter:	1
SD memory card:	1

KOBELCO
KOBELCO STEEL GROUP

Measuring Equipment of the Hardened Layer Depth **SH-67**

Nondestructive measurement of induction hardened layer depth

Specifications

	Item	Performance	
Measuring casdepth function	Object to be measured	Depth of the induction hardened layer	
	Measurement range	0.7 to 15mm	
	Measurement resolution	0.1mm	
	Measurement repeatability	±0.1mm (per one location)	
	Scanner interface	Included (The scanner is optional.)	
Ultrasonic testing function	Sensibility	80 dB or more (5 MHz narrow band)	
	Adjustable gain	110 dB with 0.1 dB pitch	
	Center frequency and band width	0.25/0.5/1/2/3/4/5/10/15/20/25 MHz	
	Amplification linearity	±3% or less	
	Test range	1 to 14,556mm (longitudinal mode in steel)	
	Display time-base linearity	±1% or less	
Common specifications	AC adapter	AC100 to 240V±10%, 50/60Hz±3Hz, Power consumption: approx. 20 W	
	Battery	Lithium-ion battery	
	Battery operating time	Approx. 8 hrs (Operating time is subject to the operation condition and ambient temperature.)	
	Ambient temperature	0 to 40°C during operation, -20 to 60°C during storage	
	Display and screen size	6.5" TFT color LCD (Super luminosity LED liquid crystal display)	
	External dimensions (mm), Mass (kg)	286 (W) × 180 (H) × 110 (D) (not including the projection), 3.5 kg (including a battery)	
	Body case	Waterproof and dustproof standard: Compliance with IP66. Made of reinforced ABS resin (front and back) and aluminum alloy (midsection)	
	External interface	Card slot	SD memory card
		Connector	USB (master/slave)
			LAN, VGA, Encoder (two-axis)
DC input (A dedicated AC adapter is used.) Earphone microphone (JEITA RC-5240)			



Read the instruction manual carefully before using the SH-67.

SHINKO INSPECTION & SERVICE CO., LTD.

Sales & Marketing Department

2-3-1, Shinhama, Arai-cho, Takasago-City, Hyogo 676-8670, JAPAN

Tel: +81-79-445-7253 Fax: +81-79-445-7156

E-mail: sisco.eigyo@sisco.kobelco.com

Tokyo Office

15th floor, ON Bldg., 5-9-12 Kitashinagawa, Shinagawa-ku, Tokyo 141-8688, JAPAN

Tel: +81-3-5739-5346 Fax: +81-3-5739-5348

<http://www.sisco.kobelco.com>

The specifications are subject to change without prior notice.

●Distributor



주식회사 용마

TEL : 055-238-8838

FAX : 055-276-8838

이메일 : webmaster@yongma.net / ym8838@daum.net

주소 : 경남 창원시 의창구 차상로 76 (팔용동)

SHINKO INSPECTION & SERVICE CO., LTD.



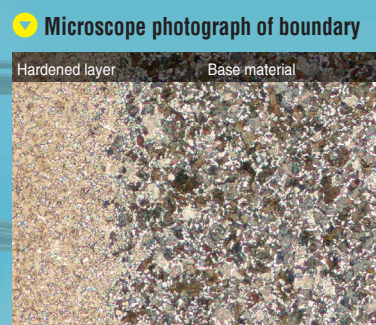
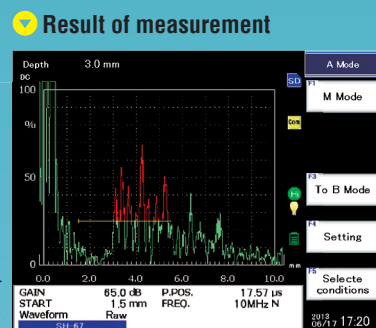
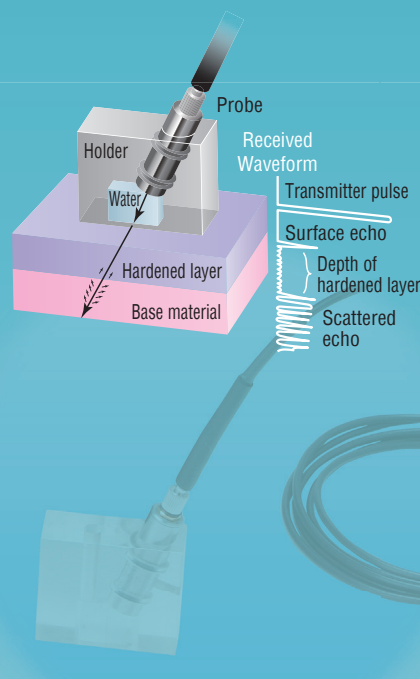
High Operational Efficiency and Cost Savings!

~ Ultrasonic method for measuring hardened layer depth ~



Measurement Principle

- The case-hardened layer has a finer metal texture than the non-hardened layer below it.
- Ultrasonic waves pass through the hardened layer and then scatter in the base material.

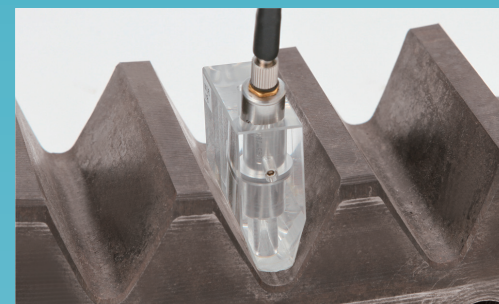


Features

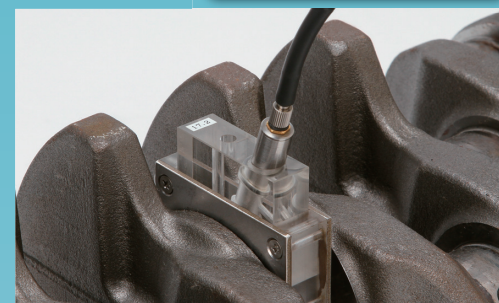
Simple ultrasonic measurement

High sensitivity probe
The highly sensitive convergent probe provides accurate measurement.

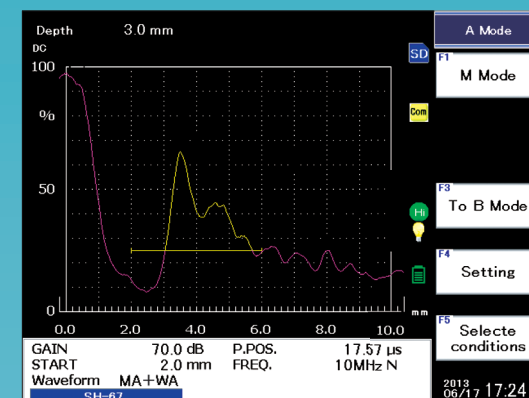
Hermetically sealed immersion probe holder
The optimal design ensures stable measurement.



The holder is designed and manufactured for each work.



Waveform processing to clearly identify the boundary



Simple parameter settings by the Setup screen

Basic settings | A waveform processing | A depth judgment | A miscellaneous | Pass/fail judgment

File name: TEST10M1Z

Range: 10 mm

Frequency: 10 Mhz

Water path: 12 mm

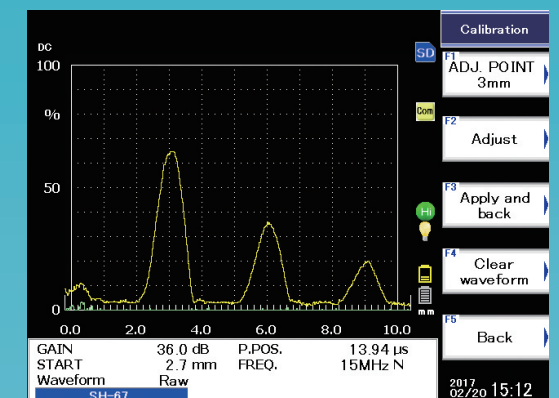
GAIN: 67.0

Velocity: 2280 m/s

Comments:

Enter a file name to save as a measurement conditions file.

Automatic calibration for easy setup



Applications

Measurement of induction hardened layer depth

- Wind power facilities and construction machinery : Swivel bearings
- Automotives and vessels : Crank shafts, gears, shafts, etc.
- Other induction hardened products

