

SH-22 Specifications

Probe		SH-22-S005	SH-22-E1	SH-22-E2	SH-22-E4
Model		SH-22-S005	SH-22-E1	SH-22-E2	SH-22-E4
Indenter		Micro Vickers diamond indenter			
Indenting force		1N (Approx. 0.1kgf)	10N (Approx. 1kgf)	20N (Approx. 2kgf)	40N (Approx. 4kgf)
Measuring range	Vickers hardness	400-1000HV**		100 - 1000HV	
	Rockwell C hardness	(Hardness value in scales of HRC, HRB, HS, HBW are also indicated for reference.)		10.0 - 70.0HRC	
	Rockwell B hardness			60.0 - 100.0HRB	
	Shore hardness			20.0 - 100.0HS	
	Brinell hardness			85 - 550HBW	
Reproducibility (With measuring stand)	Vickers hardness	± (5%rdg)HV**		± (3%rdg)HV	
	Rockwell C hardness			±1.0HRC	
	Rockwell B hardness			±2.0HRB	
	Shore hardness			±1.0HS	
	Brinell hardness			± (3%rdg)HBW	
Nonlinearity (With measuring stand)		400 to 1000HV ± (5%rdg)HV (Measuring on standard hardness block)		200 to 1000HV ± (5%rdg)HV (Measuring on standard hardness block)	
Allowable measuring angle		Within ±3°			

Object to be measured	
Material to be measured	Steel and metals which can be measured with hardness standard block made of the material
Size of object to be measured	Bigger than 15mm x 15mm, thicker than 6mm ²
Measurable curvature	Shaft/Pipe OD: bigger than 10mm Ball radius: bigger than 20mm (At use of standard attachment)
Surface roughness	Under Ra1.6

Display	
Scale conversion	HV, HRC, HRB, HS, HBW, N/mm ²
Display of measured value	4 digits
Display resolution	1HV, 0.1HRC, 0.1HRB, 0.1HS, 1HBW, 1N/mm ²
Display contents	Measured value, Measuring times, Maximum value, Minimum value, Standard deviation, Average value

Standard configuration

1 Display unit, 1 Probe (with grip), 1 Probe cable (1.5m), 1 Hardness standard block: around 55HRC, (For SH-22-S005: around 600HV), 1 AC adapter, 1 Recharger, 1 Lithium ion battery, 1 Carrying case, 1 Instruction manual, 1 test report, 1 guarantee card

Options

Standard hardness block around HV600 (included in standard configuration of SH-22-S005)/around 50HS/around 300HBW, Measuring stand (SH-P07), Thermal printer (DPU-S245, with connecting cable), Printer paper in roll, Stand for main unit (SH-P03), Grip*3, Nosepiece for narrower area

*1 Contact us about measurement of the hardness which is over/under the range showed here.

*2 Contact us about measurement with SH-22-S005 (of 100g indenting force, designed for thinner material checking)

*3 Contact us about specification details

Contact us about CE version.

TEL.03-5825-7362 FAX.03-5825-5591

Contact us about request for installation in automatic testing system, or one for use of contact point signal.

SONOHARD SH-22 is calibrated with standard hardness block made by Yamamoto Scientific Tool Co., Ltd. Hardness blocks are manufactured complying to ISO6508-3/JIS B7730 and ISO6507-3/JIS B7735. Our performance guarantee is based on hardness standard blocks made by Yamamoto Scientific Tool Co., Ltd.

Read an instruction manual before use of our products. Specifications may be changed without notice.

JFE Advantech Co., Ltd.

JFE URL : <http://www.jfe-advantech.co.jp/>

Tokyo Head Office (Overseas Sales)
JFE Kuramae Bldg. 2-17-4, Kuramae Taito-Ku, Tokyo
111-0051, Japan
e-mail: tokyo@jfe-advantech.co.jp Tel. +81-3-5825-5577 Fax. +81-3-5825-5591

Head Office and plant
3-48, Takahata-cho, Nishinomiya, Hyogo
663-8202, Japan
e-mail: honsha@jfe-advantech.co.jp Tel. +81-796-66-1508 Fax. +81-798-65-7025

Ultrasonic Hardness Tester

SONOHARD

SH-22



Perfect for hardness check on narrow/curved surface of quenched material

Features

- Narrow / curved surface can be measured by small diameter probe (comparing with our model SH-21)
- High durability - More than 1 million measurements
- Measurement in just 2 seconds
- Static loading method with Vickers indenter
- Tiny indentation (Approx. 0.1mm)
- Measurement is not affected by material / mass of measuring base
- Measurement can be done in all directions
- Free from periodic parts replacement by adoption of static loading method
- Upper / Lower limit alarm setting available



Made in Japan by
JFE Advantech Co., Ltd.

