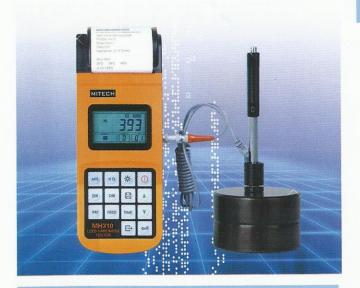
PORTABLE HARDNESS TESTER MH310





Application:

- Die cavity of molds
- · Bearings and other parts
- · Failure analysis of pressure vessel, steam generator and other equipment
- Heavy workpiece
- The installed machinery and permanently assembled parts
- · Testing surface of a small hollow space
- · Material identification in the warehouse of metallic materials
- · Rapid testing in large range and multi-measuring areas for large-scale workpiece

Technical Specification:

- Measuring range: HLD (170 ~ 960)
- Measuring direction: 0°~360°
- Hardness scale: HL、HB、HRB、HRC、HRA、HV、HS
- Display: segment LCD
- Data memory: 100 groups max. (relative to impact times $32 \sim 1)$
- Printing paper: width is (57.5±0.5) mm, diameter is 30mm.
- Battery pack: 6V NI-MH
- Battery charger: 9V/500mA
- · Continuous working period: about 150 hours (without backlight, no printing)
- Communication interface: USB1.1

Keypad Definition:

*	Tum on/off the EL backlight		Data Save or Data Delete	1	Turn the instrument on/off
MAT	Material Selection	STR	Hardness/Strength switch	₽	Plus or Up
SOALE	Hardness Scale Selection	DIR	Direction change		Minus or Down
FEED	Manual Paper Feed	CNT	Impact Times set		
PRT	Print data		Cancel or Exit		Data logging or Enter

Features:

- Large LCD with back-light, showing all function and parameter. Portable design, the size of the instrument is only 20cm.
- Test at any angle, even upside down.
- · Wide measuring range. It can measure the hardness of all metallic materials. Direct display of hardness scale HRB, HRC, HV, HB, HS, HL and three types of strength value immediately.
- Large memory could store 100 groups (Relative to average times $32\sim1$) information including single measured value, mean value, impact direction, impact times, material and hardness scale etc.
- Low power design with relying on stable integrate circuit. Charging for three hours, it can use for two months.
- Integrate the original imported high speed thermal printer into the instrument with which it supports immediately printing function. The imported long lasting paper can save the data permanently.
- · Battery information showing the rest capacity of the battery and the charge status.
- · Auto power off to save energy. It can work continuously for at least 150 hours without EL and printing
- · Seven impact devices are available for special application. It can identify the type of impact devices automatically and has user calibration function.
- Equipped with USB port for connecting with PC by Data proceeding software.
- Excellent after-sale service system for high quality products two years' quality guarantee and all life maintenance. Easy to buy and comfortable to use.

Standard Configuration

- 1 Main Unit
- 2 D type impact device
- 3 Standard test block
- 4 Cleaning brush
- 5 Small support ring
- 6 Battery Charger
- Paper for printing
- 8 Manual
- 9 Instrument case
- 10 PC software and cable 1

Optional Configuration:

- Support rings (page 10)
- Special impact devices (page 8)
- Tool for impact ball
- Other type of block





Measuring Range of MITECH Leeb Hardness Tester:

Material	Method	Impact device						
		D/DC	D/+15	С	G	E	DL	
	HRC	20~68.5	19.3~67.9	20.0~69.5		22.4~70.7	20.6~68.2	
	HRB	38~99.6			47.7~99.9		37.0~99.9	
Steel and	HRA	59.1~85.8				61.7~88.0		
cast steel	НВ	127~651	80~638	80~683	90~646	83~663	81~646	
	HV	83~976	80~937	80~996		84~1042	80~950	
	HS	32.2~99.5	33.3~99.3	31.8~102.1		35.8~102.6	30.6~96.8	
Cold work	HRC	20.4~67.1	19.8~68.2	20.7~68.2		22.6~70.2		
tool steel	HV	80~898	80~935	100~941		82~1009		
	HRB	46.5~101.7						
Stainless steel	НВ	85~655						
	HV	85~802						
	HRC							
Grey cast iron	НВ	93~334			92~326			
	HV							
	HRC							
Nodular cast iron	HB	131~387			127~364			
	HV							
Cast	НВ	19~164		23~210	32~168			
aluminium alloys	HRB	23.8~84.6		22.7~85.0	23.8~85.5			
BRASS	НВ	40~173						
(copper-zinc alloys)	HRB	13.5~95.3						
BRONZE(copper -aluminium /tin alloys)	НВ	60~290						
Wrought copper alloys	НВ	45~315						

All Types of Support Rings:



Type	Remarks						
Z10-15	For testing cylindrical outside surface R10~R15						
Z14.5-30 For testing cylindrical outside surface R14.5~R30							
Z25-50	For testing cylindrical outside surface R25~R50						
HZ11-13	For testing cylindrical inside surface R11~R13						
HZ12.5-17 For testing cylindrical inside surface R12.5~R17							
HZ16.5-30							
K10-15 For testing spherical outside surface SR10~SR15							
K14.5-30	For testing spherical outside surface SR14.5~SR30						
HK11-13	For testing spherical inside surface SR11~SR13						
HK12.5-17	K12.5-17 For testing spherical inside surface SR12.5~SR17						
HK16.5-30 For testing spherical inside surface SR16.5~SR30							
UN	For testing cylindrical outside surface, radius adjustable R10 \sim ∞						