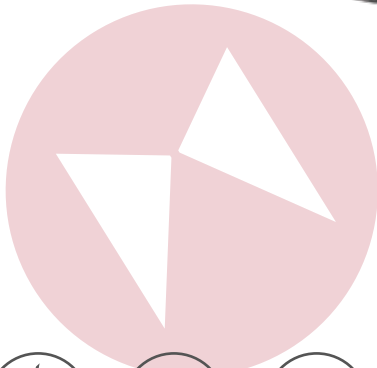


Barcol Impressor with Single Brackets

M934-1 Series

Professional manufacturer, best quality with competitive price ●
Recommended by the world UT NDT inspection association for training and examination ●
Core technology with independent intellectual property rights, certificate of CE, GOST and etc.. ●



Overview

MITECH 934-1 Barcol impressor, based on mechanical pressure principle, its intelligent design making it possible to test the hardness on site conveniently and quickly. Mitech 934-1 Series Barcol Impressor with Single Bracket is the latest product of indentation hardness tester. Equipped with rotating bracket for locating, it can effectively improve the stability of the device, thus improve the accuracy. Digital display can offer with better measuring experience. The calibration can be achieved by simply pressing one key without dismantling. The device is so portable that user can operate with one single hand. It is widely used in aluminum processing and fiberglass and other hard plastic manufacturing industry. It can meet most of the needs during production processing hardness test in hard plastic manufacturing industry. It is a necessary professional testing equipment to improve the production rate and cost savings.

Technical Parameters

- Measurement range: 0 ~ 100HBa
- Display resolution: 0.1 Hba
- Display error: ± 2.0 HBa (42 ~ 52 HBa) ; ± 1.0 HBa (84 ~ 88 HBa)
- Repeatability error : ± 2.5 HBa (42 ~ 52 HBa) ; ± 1.5 HBa (84 ~ 88 HBa)
- HBW range: 25 ~ 135HBW
- Indenter: 26 ° frusto-conical, face diameter 0.176mm
- Material: Pure aluminum, aluminum alloy, glass steel, hard plastic
- Model: M934-1
- Weight: 0.48Kg

Working Principle

MITECH 934-1 Barcol impressor is an indentation hardness tester. The depth of the indenter (pressed into the surface) is inversely proportional to the hardness of the material, so the indenter depth can represent the hardness of the workpiece.

The value can be calculated as below:

$$\text{HBa} = 100 - \frac{L}{0.0076}$$

Tips: HBa-symbol of barcol hardness; L- indenter depth(mm); 0.0076mm is the depth of one HBa value.

The value can be directly displayed on the instrument screen.

Features

- Portable and easy to operate with single hand, small size, light weight, can do fast hardness test of workpiece;
- Easy to learn, no high-skill skills of the operation requirements, the human operation of the measurement results less impact, very suitable for the production site for rapid hardness testing of materials;
- Can do fast NDT test on site of sale or work without sampling;
- Compared with Webster hardness tester, there is no limits of workpiece size, can do the test directly on the surface;
- Wide measurement range, capable of hardness test for pure aluminum and aluminum alloy products ;
- Widely used in aluminum processing and fiberglass and other hard plastic manufacturing industry. Its advanced type can also measure soft plastic, metal and leather;
- Equipped with rotating bracket for locating, it can effectively improve the stability of the device, thus improve the accuracy;
- Digital display screen, making the best measuring experience;
- Can meet the standard of GB/T3854-2005(PRC) and ASTM B648-2000(USA) .

Application

- Aluminum sheet
- Thick-walled aluminum
- Aluminum wheels
- Tube materials
- Aluminum alloy castings, forgings, die castings
- Aluminum doors and windows, curtain walls, fire ladder, glass fiber reinforced plastic bathroom products, hull, storage tank, artificial marble after installation

Applied condition

- The depth of workpiece to be measured must be over 1.5mm;
- Sample surface coating will seriously affect the measurement accuracy, with sandpaper or solvent to remove the coating after the hardness measurement;
- The coating on the surface will affect the accuracy ,user need to get rid of it before measuring;
- The instrument should be used in environments with strong vibrations, damp and corrosive gases;

Configuration

| | NO. | Name | QTY | Note |
|--------------------|-----|----------------|-----|------|
| | 1 | Main Unit | 1 | |
| | 2 | AC Adapter | 1 | |
| Standard Config | 3 | High Block | 1 | |
| | 4 | Low Block | 1 | |
| | 5 | Wrench | 1 | |
| | 6 | Attached Files | 1 | |
| | 7 | ABS Case | 1 | |
| Optional Config | 8 | Spare Indenter | 1 | |
| | 9 | Standard Block | 2 | |



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