



**B.N.C.TOOLING Co.,Ltd.**

BNCTOOLING.COM  
BNCTOOLINGSHOP.COM

69/90 Hatairat Rd., Minburi ,Minburi Bangkok (Thailand) 10510



## Vision Measuring Machine

### Digital Micro Hardness Tester

#### **Vexus MHV-1000Plus**

|             |                                     |
|-------------|-------------------------------------|
| Model       | Vexus MHV-1000Plus                  |
| Code#       | 823-113Plus                         |
| Standard    | JIS B -7735, ASTM E-384 and ISO 146 |
| Certificate | CE                                  |



#### Product Characteristics

- Micro-Vickers hardness tester with button control panel;
- Strong and stable body;
- LED illumination, light, adjustable, long life and no heat;
- Data storage for review and printing;
- Rotatable turret with five working positions;
- 200 lines encode with precise measurement;
- D1 and D2 exchange automatically(Vexus MHV-2000);
- Two indenters available(Vickers and Knoop);
- Can be developed to semi-automatically or full-automatically system.

#### Application Range

- Testing very thin materials like foils, thin pieces, coatings layers, etc;
- Measuring hardness of the surface of a part, small parts or small areas;
- Measuring individual micro-structures;
- Measuring the depth of case hardening by sectioning a part and making a series of indentations to describe a profile of the change in hardness.



**B.N.C.TOOLING Co.,Ltd.**

BNCTOOLING.COM  
BNCTOOLINGSHOP.COM

69/90 Hatairat Rd., Minburi ,Minburi Bangkok (Thailand) 10510



## Vision Measuring Machine

### Specification

| Model                       |    | Vexus MHV-1000Plus                                                                                      | Vexus MHV-2000Plus |
|-----------------------------|----|---------------------------------------------------------------------------------------------------------|--------------------|
| Code#                       |    | 823-113Plus                                                                                             | 823-213Plus        |
| Test Load                   | gf | 10 / 25 / 50 / 100 / 200 / 300 / 500 / 1000 / 2000 (option)                                             |                    |
|                             | mN | 98.07/ 245.2/ 490.3/ 980.7/ 1961/ 2942/ 4903/ 9807/19614 (option)                                       |                    |
| Loading Mechanism           |    | Automatic loading and releasing method 50 ~100 µm/s                                                     |                    |
| Dwell Time                  |    | 5 ~ 99 s                                                                                                |                    |
| Turret Mechanism            |    | Automatic                                                                                               |                    |
| Objective                   |    | 40x/10x ( Option:20x,80x )                                                                              |                    |
| Magnification of Microscope |    | For measurement :400x ( Objective 40X and Eyepiece 10X )                                                |                    |
|                             |    | For observation : 100x ( Objective 10X and Eyepiece 10X )                                               |                    |
| Measuring Microscope        |    | Electronic                                                                                              |                    |
| Max. Measuring length       |    | 230 µm ( In case of 400x )                                                                              |                    |
| Mix. Measuring unit         |    | 0.1µm (0.01µm for TS type)                                                                              |                    |
| Max.Specimen Height         |    | 90mm                                                                                                    |                    |
| Max.Specimen Depth          |    | 110mm                                                                                                   |                    |
| Measuring Hardness Scale    |    | HV, HK                                                                                                  |                    |
| X-Y Stage                   |    | Manual type                                                                                             |                    |
| Dimensions                  |    | 110 × 110 mm                                                                                            |                    |
| Max. movement               |    | 25 × 25 mm                                                                                              |                    |
| Min. micro graduation       |    | 1/100 mm                                                                                                |                    |
| Light Source                |    | LED Illuminator                                                                                         |                    |
| Print Output                |    | Measured data and statistic data :( Max. Value / Min. value / Mean value / Range / Standard deviation ) |                    |
| Accuracy                    |    | Conform to : JIS B -7735, ASTM E-384 and ISO 146                                                        |                    |
| Photographic Device         |    | Capable to mount photographic device ( Option)                                                          |                    |
| Dimensions                  |    | W 190 × D 430 × H 520 mm                                                                                |                    |
| Weight                      |    | 40Kg                                                                                                    |                    |
| Power Supply                |    | Single phase AC 220 V 50/60 Hz                                                                          |                    |