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Vision Measuring Machine

Auto Turret Digital Brinell Hardness Tester

AutoBrin-3000A

Model	AutoBrin-3000A
Code#	831-151
Accuracy	$\leq \pm 3.5\%$
Standard	GB/T231.2, JJG150, EN-ISO 6506: ASTM E10-12; JIS Z2243
Certificate	CE



Product Feature

- AutoBrin-3000A is the latest generation digital Brinell hardness tester, it equips with motorized turret to install 10mm, 5mm, 2.5mm tungsten carbide ball indenter, 1x and 2x objectives simultaneously, avoid operation error during switch indenter and objectives.
- Apply large LCD to display testing parameters and results, indentation can be measured by 10x digital eyepiece, also available to realize hardness conversion among 17 hardness scales.
- Loading control by load cell with accuracy at 0.5%, microchip can make force compensation automatically lost during loading.
- Indentation measurement system integrated by 10x digital eyepiece, 1x and 2x objectives, eliminates manually brinell table checking, to realize directly indentation measurement and display hardness result on LCD.
- AutoBrin-3000A equips with built-in mini printer, and can transfer data to computer by RS232, to do further analysis by PC software.
- Optional accessory for AutoBrin-3000A has Brinell Optical Measuring System BrinScan.



Vision Measuring Machine

Application

Because of brinell method apply big loading force and generate big indentation, it is suitable to test hardness of coarse-grained metals, like cast iron, non ferrous metal and their alloy, sale of steels, etc. Soft metals are also available to test, like Aluminium, copper, plumbum, tin, zinc and their alloy, etc.

Specification

Name			Auto Turret Digital Brinell Hardness Tester		
Model		AutoBrin-3000A			
Code#		831-151			
Loading Force	Kgf	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf			
	N	612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N			
Hardness Resolution		0.1HBW			
Brinell Range		(8-650) HBW			
Hardness Reading		Display on LCD			
Indentation Measurement		Magnification 10x/20x, eyepiece 10x and objective 1x, 2x			
Data Output		Mini printer/RS232			
Vertical Space		260mm			
Horizontal Space		150mm			
Dimension		890×535×260mm			
Gross/Net Weight		180Kg/150Kg			
Power Supply		AC 220V/110V±5%, 50~60 Hz			
Conform Standard		GB/T231.2, JJG150, EN-ISO 6506 ; ASTM E10-12; JIS Z2243			
Accuracy					
Hardness Range		Permitted Error	Repeatability		
HBW≤ 125		≤± 3.5%	≤ 3.5%		
125<HBW≤225		≤± 2.5%	≤ 3.0%		
HBW> 225		≤± 2.0%	≤ 2.5%		