



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

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Vision Measuring Machine

Automatic Twin Micro Vickers/Knoop Hardness Tester

AutoVicky ZVK-1000F

Model	AutoVicky ZVK-1000F
Code#	823-160F
Standard	ASTM E-92, ISO 6507, GB/T4340
Certificate	CE



Product Characteristics

- Auto-stage, Auto-focus, Auto-measurement and Twin-Vickers/Knoop indenter system;
- Loading-force: Precise dead weights ensures the loading force system reliably and precisely;
- Optical-path: High-resolution optical microscopy path makes image of indentation sharply and excellent;
- Auto-Turret: the switch position of HV/HK indenters and 10x/40x objectives is repeatable and accurately;
- Auto-stage: it is driven by precise step motor with large travel size 100x100mm and heavy load ability ;
- Auto-Focus: Apply high resolution optic system and auto focus technology, 3A software can realize auto focus and auto hardness evaluation if the indentation size is larger than 8um ;
- Auto-Measurement: automatic hardness testing and measurement software ; 3A can control hardness tester and data communication, includes the switch of 10x, 40x objectives and Vickers and Knoop indenter, auto loading, dwell and unloading, single or multiple indentation, set step distance, movement mode, auto record indentation dialog line and hardness value, auto generate CHD depth and hardness curve, error statistics, test times group statistics, generate Excel and Word format report.



Vision Measuring Machine

Specification

Commodity		Automatic Twin Micro Vickers/Knoop Hardness Tester
Model		AutoVicky ZVK-1000F
Code#		823-160F
Focus-Mode		Twin Auto-focus/Manual-focus
Load-System		High-precision-weight
Test Load	gf	10 / 25 / 50 / 100 / 200 / 300 / 500 / 1000
	mN	98.07/ 245.2/ 490.3/ 980.7/ 1961/ 2942/ 4903/ 9807
Loading-Mode		Automatic loading, dwell and unloading
Dwell Time		5 ~ 99 s can be adjustable
Turret System		Auto-Turret
160mm Dual Optical Microscopy System		High-resolution Optical Microscopy Path 10x digital measuring eyepiece 40x objective for Vickers measurement Independent 40x objective for Knoop measurement 0.5x C-mount with camera for dual vision measurement
Magnification		Optical observation magnification : 100x (10x Objective and 10x Eyepiece)
		Optical measurement magnification :400x (40x Objective and 10x Eyepiece)
		Digital observation magnification: 350x
		Digital measurement magnification: 1400x
Light Source		LED parallel Illuminator
Digital Image System		0.5x C-adapter and 1.3Mpixel CMOS camera
Max. Specimen Height		90mm
Max. Specimen Depth		110mm
Hardness Scale		Switch between HV and HK
Auto-Stage	Type	Motorized
	Dimensions	200 × 180 mm
	X-Y Travel	100 × 100 mm
	Motorized	Step motor
	Resolution	0.5um
Driving Controller		VickyControl2000
Hardness Testing Software		3A: Auto-stage; Auto-focus; Auto-measurement
PC system		DELL OptiPlex3046MT
LCD monitor		21.5" Dell LCD Monitor
Executive Standard		ASTM E-92, ISO 6507, GB/T4340
Dimensions		W190 × D 430 × H 520 mm
Net. Weight		80Kg
Power Supply		AC 220V/50Hz or 110V/60 Hz