



## Wilson® UH4000 Series

The **UH4000** series universal hardness tester is designed for high volume production labs and production floor. The **UH4000** series is available in two different configurations, i.e. the UH4250 and UH4750. Universal hardness testers are designed to perform several hardness scales with one machine, in most cases for higher loads (>5kgf).

Due to its sturdy design, it is a reliable machine and suitable for rough workshop conditions. The innovative hardness tester features extremely fast testing cycles and a newly developed turret to hold several indenters and objectives. The operator can test to a variety of test methods without the need for manual indenter/objective changes. The frame is made from a very robust and sturdy Al alloy, as well as the turret cover, which protect the highly accurate measurement system and turret assembly against outer influences and collisions, e.g. with test pieces. The large 300mm [11.8in] x 400mm [15.7in] T-slot stage and the weight capacity enables testing of heavy and big parts.

The **UH4000** series suits for the following applications and many more.

- Hardness of castings and forgings
- On flat and cylindrical work pieces
- Wide field of application within the automotive and aerospace industry
- Product quality control testing
- Steels, non-ferrous metals, stainless steels, heat treated materials
- Cemented carbides, ceramics
- Plastics and carbon testing

## Technical Specifications

	UH4250	UH4750		UH4250	UH4750
Hardness Scales	HV 0.5 - HB 10/250	HV 3 - HBW 10/750	Test Standards	Brinell (ISO 6506-1, ASTM E10), Vickers (ISO 6507-1, ASTM E92), Rockwell (ISO 6508-1, ASTM E18), Knoop (ISO4545-1, ASTM E384), Plastic testing ball indentation (ISO 2039-1, 2039-2)	
Test Load Range	0.5-250 kgf	3-750 kgf		Manual hand wheel and automatic Z axis drive	
Test Load Type	Closed loop		Z Spindle	300 mm (11.8 in), 70 kg (154 lb)	
Optics	5-megapixel USB 3 digital camera, with digital zoom and autofocus		Maximum Specimen Height/Weight	T-slot stage with 12mm slot width, 300mm [11.8in] x 400mm [15.7in]	
Turret	8 positions for objectives and indenters		Test Stage Dimensions	704 Mm (28 in) x 534 mm (21 in) x 995 mm (39.2 in)	
Objectives Long Working Distance (Optional)	2.5x (optional with ring light), 5x, 10x, 20x, 40x, 50x		Machine Dimensions (L x W x H)	300 kg (660 lb)	
Indenters (Optional)	Brinell 1mm, 2.5mm, 5.0mm and 10.0mm carbide balls, Rockwell diamond cone, 1/16", 1/8", 1/4", 1/2" carbide ball indenters, Vickers diamond and Knoop diamond		Machine Net Weight	110 - 240V / 50 - 60HZ	
			Power Supply		



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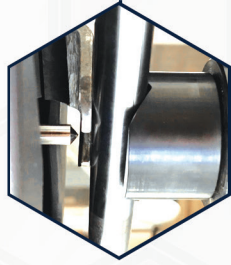
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# Wilson® UH4000

## Universal Hardness Testing



### Clamping

This optional clamping tool will ensure stability during the test process



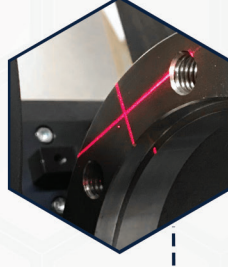
### Multi-Turret

8 position turret to have all objectives and indenters you need



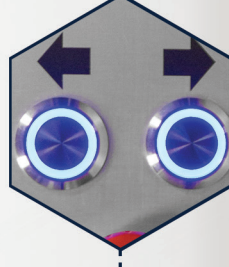
### DiaMet Software

The most intuitive usability on the market



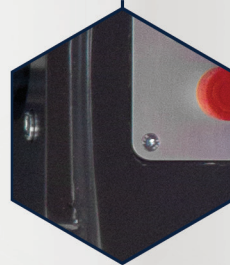
### Advanced Options

Get a laser for easy test location targeting and a ringlight for best Brinell measurement accuracy



### Manual & Automatic Stage Movement

The 300mm [11.8in] x 400mm [15.7in] stage will carry your workpieces with ease



### Full Protection

Steel casting provides full protection for production environments