



ADELIX
TURKEY

ADL-D100

Portable dynamic hardness tester

Dynamic hardness tester **ADL-D100** is specially designed for express-control of hardness of metal products.

The **ADL-D100** is a versatile solution for accurate portable hardness testing and can be a reliable tool in your claims work. Especially when situations arise when other devices do not provide sufficient accuracy when measuring the hardness of parts.

ADL-D100 will be an affordable and reliable solution to problems when there are disagreements between workshops or contractors in the results obtained and when accepting parts, since the device measures with an accuracy as close as possible to stationary hardness testers.

An intelligent averaging mode, a unique statistical processing system and flexible memory organization allow for the most accurate hardness measurements.

The device allows you to calibrate one or two exemplary test blocks and one-point calibration.

For clarity of results, graphs are provided on the hardness tester display. Equipping the device with additional positioning attachments makes the **ADL-D100** hardness tester universal in use.

For operation in a workshop, the device is manufactured in a rugged case, equipped with a bright color 3.5" LCD TFT display with a user-friendly interface.



MAIN ADVANTAGES:

Individual solutions - allows programming, in addition to standard calibrations, a large number of user calibrations, i.e. create special scales according to standard firmness measures of the enterprise (specific customer material).

Modernity - made on a modern electronic base. This allows you to implement more possibilities for software processing of results using different methods and algorithms.

Expertise - the creation, storage, recording and adjustment of specialized scales for various materials make this device universal in use between different workshops within the enterprise and between third-party organizations.

Mini-computer - the device is a database on specific various materials of the enterprise and allows you to accumulate a knowledge base on the scales of these materials.

Reliability - accurate, modern and reliable in use. Warranty and post-warranty service is carried out promptly on the basis of the service center.

Accuracy - a modern element base and a high-quality sensor allow high-precision measurements according to programmed calibrations, as close as possible to the accuracy of stationary hardness testers.



SPECIFICATIONS

Parameter	Value	Parameter	Value
Measurement range on the main scales		Main characteristics	
Rockwell	20 – 70 HRC	Scale conversion	It is possible to convert the measured hardness into different scales
Brinell	30 – 650 HB	Programmable scales	More than 500 additional scales
Vickers	230 – 940 HV	Device body	Shockproof plastic body, protected from falls with rubberized inserts
The ability to add additional scales:		Construction of graphs	All points from the series that were taken into account in the calculation of the average value
on soft materials	20-90 HB	Algorithm for discarding false readings (for higher reading accuracy)	Yes
on solid materials	450-656 HB	Calculations	Average value for 1 - 20 measurements, minimum-maximum average value, Finding Incorrect Measurement Results
Measurement error (Regulated by ISO or DSTU standards)		Working temperature	- 20 ... +45 °C
Rockwell	2 HRC	Display	LCD TFT 3.5" 320x480 px
Brinell, in the range		Language	Ukrainian, English, Russian
- 90-180 HB	10 HB	PC connection	USB-C, customization and processing
- 180-250 HB	15 HB	Instrument power supply	Built-in battery
- 250-460 HB	20 HB	Overall dimensions	185 × 93× 36 mm
Vickers, in the range		Weight	0.3 kg
- 240-500 HV	15 HV		
- 500-800 HV	20 HV		
- 800-940 HV	25 HV		
Roughness			
- for sensor type "D"	3.2 Ra		
- for sensor type "G"	7.2 Ra		
- for sensor type "E"	3.2 Ra		
Diameter of the platform for installing the sensor type "D"	from 15 mm on the plane		

CONTENTS OF DELIVERY

Parameter	Value	Parameter	Value
Measuring unit	1 p	Carrying bag	1 p
Type D sensor	1 p	Operation manual	1 p
The cable to the sensor	1 p	Verification certificate	1 p
PC connection cable	1 p	The passport	1 p
Charger	1 p	Hardness measuring scales	by agreement

ADDITIONAL EQUIPMENT:

The device can be equipped with specialized positioning tips for measuring hardness on uneven surfaces.

In addition to the standard "D" type sensor, the supply of "G" type sensors for surfaces with high roughness and light "E" type sensors is available.

The company can supply hardness blocks according to Rockwell, Brinell and Vickers, as well as certified standard hardness blocks of the enterprise SMTP 1, 2.

For surface preparation, the device can be equipped with a grinder with a set of consumables.