





Electromagnetic-acoustic (EMA) Thickness Gauge NOVOTEST UT-3M-EMA

With USB connection !!!

Name	Electromagnetic-acoustic (EMA) Thickness Gauge NOVOTEST UT-3M-EMA
<p>Photo</p>	
<p>Purpose</p>	<p>EMA Thickness Gauge NOVOTEST UT-3M-EMA allows measuring the thickness of metal products without a couplant through a layer of coating or rust.</p> 

	<p>Electromagnetic-acoustic (EMA) thickness gauge UT-3M-EMA allows measuring the thickness of metal products without a couplant and through a layer of coating or rust, so the device has an obvious advantage over common ultrasonic thickness gauges. Moreover, this EMA thickness gauge allows measuring the thickness through a considerable air gap up to 6 mm, so an operator can test the thickness without any contact with a tested object.</p> <p>The probe of EMA Thickness Gauge NOVOTEST UT-3M-EMA contains a permanent magnet. Different probes can be fitted with magnets of different field strengths. The more powerful a magnet of a probe is, the bigger the gap between the probe and the tested object can be.</p> <p>EMA Thickness Gauge NOVOTEST UT-3M-EMA incorporates smart circuit solutions, state-of-the-industry FPGA chips, as well as a digital signal processing techniques which made it real to get high sensitivity and a wide measurement range when using weak magnets.</p> <p>The electronic unit is enclosed in a durable and lightweight metal shell. By request, the thickness gauge can be produced with dustproof and waterproof protection up to IP65. The device is also equipped with the high-capacity lithium-ion battery to ensure a long worktime. The battery capacity of the gauge can be also increased by request, allowing up to 30 hours of continuous use on a single charge.</p>
Standards	
Advantages	<ul style="list-style-type: none"> • The unique automatic operation mode of the gauge is an edge in comparison with analogs. The device automatically analyzes the measured signals, selects the required measurement method, adjusts the parameters of the receiving path and displays the measured thickness in large numbers on the display. Even a novice will be able to measure the thickness of various metal structures and products in the automatic mode accurately and quickly. • It is worth mentioning that the device implements the B-scan mode which displays the product profile as an easy-to-read picture. With a special carriage for the probe, it is possible to scan elongated objects and get their shape. • When it is necessary to sort the products with a defined thickness (min., max.) and decide on a rejection, a special control mode of the thickness gauge can help do that. The operator should set the minimum and maximum gate and watch a graphical image of the measured thickness on the display. He can also get an alarm when the measured thickness goes beyond the gate and estimate corrosion damage as a percentage of the nominal thickness of the product. • For expert inspection, it is possible to make measurements using all known methods, the autocorrelation function (ACF), the measurement between two maximum signals in the gate, echo passing through zero, and echo-echo passing through zero. • The device easily calibrates in a special automatic calibration mode using a standard calibration block.

<p>Standard set</p>	<ul style="list-style-type: none"> ○ EMA Thickness Gauge ○ EMA transducer (probe) ○ USB cable for PC connection ○ Operating manual ○ 2 Lemo - 2 Lemo cable ○ Charger ○ Case 																									
<p>Specification</p>	<table border="1"> <tr> <td>Measurement range (depending on the transducer), mm</td> <td>0.6 - 1000</td> </tr> <tr> <td>Ultrasound velocity speed, m/s</td> <td>100 - 9999</td> </tr> <tr> <td>Permissible gap between the EMA probe and</td> <td>up to 6 mm</td> </tr> <tr> <td>Measurement resolution, mm</td> <td>0.01</td> </tr> <tr> <td>Measurement accuracy, mm</td> <td>0.04</td> </tr> <tr> <td>Measurement modes</td> <td>Autocorrelation (ACF) Echo Echo - Echo (dual echo) Peak - Peak</td> </tr> <tr> <td>Dimensions of the processing unit, max, mm</td> <td>165 x 90 x 55</td> </tr> <tr> <td>Continuous working time, min, h,</td> <td>8</td> </tr> <tr> <td>Weight of the processing unit (with battery), max,</td> <td>0.4</td> </tr> <tr> <td>Display size</td> <td>3.5"</td> </tr> <tr> <td>Operating temperature range of the processing</td> <td>-20 to +50</td> </tr> <tr> <td>Operating air humidity, max,</td> <td>98 %, at 35 °C</td> </tr> </table>		Measurement range (depending on the transducer), mm	0.6 - 1000	Ultrasound velocity speed, m/s	100 - 9999	Permissible gap between the EMA probe and	up to 6 mm	Measurement resolution, mm	0.01	Measurement accuracy, mm	0.04	Measurement modes	Autocorrelation (ACF) Echo Echo - Echo (dual echo) Peak - Peak	Dimensions of the processing unit, max, mm	165 x 90 x 55	Continuous working time, min, h,	8	Weight of the processing unit (with battery), max,	0.4	Display size	3.5"	Operating temperature range of the processing	-20 to +50	Operating air humidity, max,	98 %, at 35 °C
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<p>Available options</p>	<ul style="list-style-type: none"> ○ Couplant ○ UT-probes ○ Calibration blocks 																									
<p>Warranty</p>	<p>Standard 3-year warranty. Extended warranty up to 5 years is also available</p>																									
<p>Payment</p>	<p>100% in advance. TT, WU, PayPal, Credit card</p>																									
<p>Delivery</p>	<p>CIP, FCA etc. DHL, TNT, FedEx, UPS, etc. Shipment - within 1 week</p>																									
<p>Discounts</p>	<p>Up to 36% for dealers</p>																									

MEDIA:

Company info:

Our company **NOVOTEST** designs and manufactures instruments for NON-DESTRUCTIVE QUALITY TESTING. We are located in Ukraine, 5 Spasskaya str., Novomoskovsk.

NOVOTEST produces instruments for measuring a wide range of parameters and quality control for the majority of products:

- metal [hardness](#) of various types;
- [coatings thickness](#);
- ultrasonic [flaw detectors](#);
- ultrasonic [thickness gauges](#);
- instruments for [magnetic testing](#);
- [construction materials](#) quality monitoring instruments;
- [environmental control](#) equipment and many other devices.

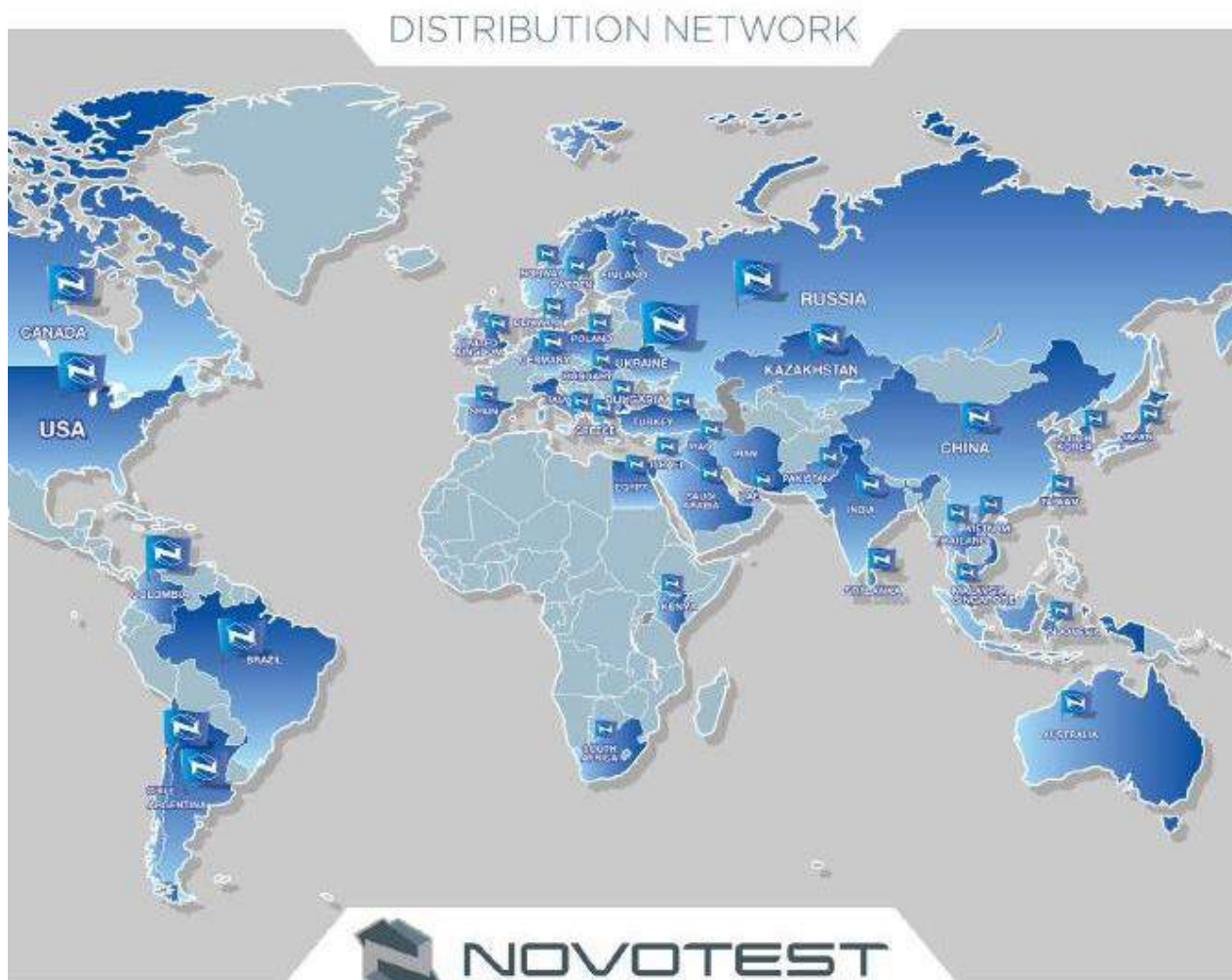


Our benefits:

- More than 10 years on NDT market;
- Leading manufacturer of NDT devices in Ukraine;
- Representative offices in more than 30 countries around the world;

- All our devices are covered by standard 3-year warranty. Extended warranty up to 5 years is also available;
- Powerful development center;
- Constant expansion of the product range;
- Manufacturing customized NDT systems;
- Solutions for non-standard NDT tasks;
- After-sales service and technical support;
- Individual approach for cooperation with dealers.

For any information, please feel free to contact us!
We will be glad to answer any questions!



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