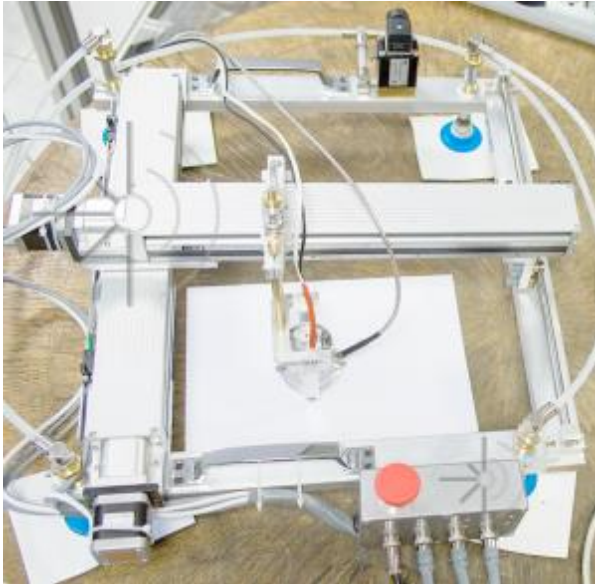




Automated two-axis laser ultrasound system



Automated two-axis laser ultrasound monitoring system is designed to determine the quality of products from various materials (metals, alloys, ceramics, plastics, composite materials etc.), detecting defects of various types in them. The system allows automated measurements on flat large areas when the scanning system directly install on the surface of the controlled object. Vacuum cups allow automated measurements of surfaces located at any angle.

1. Specifications:

Measuring mode: automated, permanent, contact

Dimensions of objects: 460 x 380 mm

Productivity: 0.2 m²/h

ADC: 12 bit, 100 MHz, frame length - 4096, USB interface

Laser: Nd:YAG with diode pumping and Q-switching, 1.06 μ m, 500 μ J

Repetition rate of pulses: 200 Hz

Overall dimensions: less than 760 mm x 300 mm x 780 mm

Power supply:

- 220 V AC

- frequency 50 Hz

Power consumption: less than 250 W



Terms of Use:

- ambient temperature + 15 °C - + 35 °C

- relative humidity at + 25 °C: 50 - 80%

2. Configuration:

- laser unit
- ADC unit
- motion control unit
- vacuum station
- two-coordinate positioning system to control flat objects (2 translational axes)
- broad-band optoacoustic transducers PLU-6P-02 (main)
- fiber optic cable
- a set of commutation cables
- data acquisition and processing system (PC working station)
- specialized software