

**CRITICAL PARAMETERS OF THE HIGHLY-ACCURATE SMART
NONDESTRUCTIVE TESTING EQUIPMENT CTG.**

Name	Weight	Purpose	Inspection objects	Application field	Complex contents	Notes
Control search systems of PSK series	Stationary version – up to 55.0 kg. Portable version – up to 16.0 kg.	Detection of defects in the inspection objects and their localization .	Molded and forged details with different weight and configuration made of magnetic and non-magnetic materials. Forged pieces, work pieces, slabs, industrial rolled metal. Stop valves with different diameters.	Objects: - oil and gas industry; - boiler inspection; - explosive and flammable production; - rail transport; - mechanical engineering and metal working; - metallurgy and foundry engineering.	Specialized acoustic emission detector with built-in laser module. Electromagnetic striker with unattended startup button. Control and commutation unit. Electromagnetic striker unit. Computer with the package of applications. Specialized vandal-proof housing.	The complexes are manufactured in portable and stationary versions. The portable version envisages <i>allocation</i> of the complexes in the specialized shock-resistant transportation sealed cases and are completed with the units of independent power supply and charging devices . The electromagnetic striker is transferred manually .
Smart control hammers of IMK series	Up to 4.0 kg.	Express-diagnostics. The integral evaluation of the inspection objects condition for determination of presence/absence of defects in the mode “ VALID/FAULTY ” without their localization.	Molded and forged details with different weight and configuration made of magnetic and non-magnetic materials. Forged pieces, work pieces, slabs, industrial rolled metal. Stop valves with different diameters.	Objects: - oil and gas industry; - boiler inspection; - explosive and flammable production; - rail transport; - mechanical engineering and metal working;	Specialized acoustic emission detector. Handle-holder with the control assembly, light indication and electromagnetic striker. Electronic unit for data analysis and processing. Independent power supply unit. Charging device. Bag-knapsack for working with the complex.	The complexes are manufactured only in portable versions. The electromagnetic striker is transferred manually .

Laser diagnostic systems LDS	Up to 15.0 kg.	Detection of defects in the inspection objects and their localization .	Welded joints of pipelines with different diameters. Heat-affected zones . Main material of the item being inspected .	Objects: - oil and gas industry; - boiler inspection; - explosive and flammable production; - rail transport; - shipbuilding; - mechanical engineering and metal working .	Two specialized acoustic emission detectors with built-in laser module. Controlled crawlers for transfer of the electromagnetic striker along the inspection object. Electromagnetic striker. Electronic control unit for the complex. Independent power supply unit. Three-channel charging device. Remote control unit. Computer with the package of applications. Shock-resistant transportation sealed case .	The complexes are manufactured in portable and stationary versions. The electromagnetic striker is transferred automatically . Convenient for controlling large-sized items .
Acoustic diagnostic complexes KAD	Up to 2.1 kg.	Express-diagnostics . The integral evaluation of the inspection objects condition for determination of presence/absence of defects in the mode “VALID/FAULTY” without their localization.	Porcelain insulators, hollow insulators and other items made of porcelain .	Objects: - atomic power and electrical power engineering	Specialized acoustic emission detector with built-in laser module. Electromagnetic striker. Electronic control unit for the complex. Independent power supply unit. Three-channel charging device. Computer with the package of applications. Shock-resistant transportation sealed case.	The complexes are manufactured only in portable version. The electromagnetic striker is transferred manually . They can be completed with acoustic emission detectors with dry pin contact and with contactless sensors.
Continuous diagnostic complexes of series KND	Up to 12.0 kg.	Detection of defects in the inspection object and their localization	Molded and forged details with different weight and configuration made of magnetic and non-magnetic materials. Copper and aluminum wire rods and wires, fittings, rods, rails, railway pairs .	Objects: - rail transport; - metallurgy.	Specialized sensors-inductors CTG . Markers for positioning defects on the inspection object. Computer with the package of applications. Specialized accessories for allocation of data readout assembly.	The complexes are manufactured only in stationary versions.