

ENGINEERING TEST INSTITUTE



The Engineering Test Institute, being EC Notified Body 1015 and Authorized Body 202 is ready to provide and grant a wide spectrum of services in the fields and scopes of activities below in its basic premises in Brno and in the branch in Jablonec nad Nisou, based on its long-time experience and competence based on ownership of the necessary accreditations, authorizations and notifications:

SCOPE	ACTIVITIES	COMPETENCE (GR - EC Directive)
<ul style="list-style-type: none"> • gas appliances and fittings • manufacturing machines and equipment • machinery specified for mining activities, e.g. powered reinforcement • metal forming and casting machines • assemblies of machines • safety parts of machinery • tools and fixtures • metallurgical products • pressure vessels and devices • hoisting devices, lifts • low-voltage el. equipment • medical devices • personal protective aids • building products and equipment • handling, transportation and storage engineering • fire extinguishers • security engineering, locks and fittings • municipal and cleaning machines and equipment • equipment for car repair shops • household and kitchen equipment and utensils • office and school furniture • office engineering • sports outfitting, leisure time goods • toys, equipment for playgrounds and sports centers, children vehicles • nuclear facilities 	<ul style="list-style-type: none"> • product testing • product certification • assessment of product conformity pursuant to the Act No. 22/1997 Coll., as amended • inspection activities • certification of the management systems • staff certification • calibration of measuring devices • material testing, analyses and measurements • production of special devices • training and seminars • information services • consulting activities • assessment of safe operation of machines, technical equipment, instruments and tools 	<p>9/2002 Coll. 2000/14/EC noise emission</p> <p>17/2003 Coll. 2006/95/EC low-voltage el. equipment</p> <p>18/1997 Coll. Atomic Act</p> <p>19/2003 Coll. 88/378/EEC toys</p> <p>20/2003 Coll. 2009/105/EC simple pressure vessels</p> <p>21/2003 Coll. 89/686/EEC personal protective equipment</p> <p>22/2003 Coll. 2009/142/EC gas appliances</p> <p>25/2003 Coll. 92/42/EEC efficiency of hot water boilers</p> <p>26/2003 Coll. 97/23/EC pressure equipment</p> <p>27/2003 Coll. 95/16/EC lifts</p> <p>42/2003 Coll. 2010/35/EU transportable pressure equipment</p> <p>70/2002 Coll. 2000/9/EC drag lifts</p> <p>163/2002 Coll. selected building products</p> <p>173/1997 Coll. selected products</p> <p>176/2008 Coll. 2006/42/EC machinery</p> <p>190/2002 Coll. 89/106/EEC CE-marked construction products</p> <p>309/2005 Coll. nuclear facilities</p> <p>336/2004 Coll. 93/42/EEC medical devices</p> <p>378/2001 Coll. 89/655/EEC safe operation and use of machines, technical equipment, instruments and tools</p> <p>616/2006 Coll. 2004/108/EC EMC</p>

SUPPORT OF EXPORT

We are able to provide certification marks for your products, e.g.:



KEYMARK



ČSN TEST



RUSSIAN FEDERATION



UKRAINE



GERMANY



GERMANY

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ENGINEERING TEST INSTITUTE

TESTING LABORATORY OF HEAT AND ENVIRONMENT-FRIENDLY APPLIANCES



The Engineering Test Institute, being EC Notified Body 1015 and Authorized Body 202 is ready to offer you a wide range of activities. We offer our services in the field of conformity assessment pursuant to Directives 2009/142/EC relating to gas appliances and 92/42/EEC relating to efficiency of hot water boilers, further pursuant to Act No. 22/1997 Coll. and consequential Government Regulations No. 163/2002 Coll., 190/2002 Coll., 22/2003 Coll., 25/2003 Coll., 26/2003 Coll., as amended.

The testing laboratory has been accredited by the Czech Accreditation Institute as the Accredited Testing Laboratory No. 1045.1. We carry out conformity assessment, certification and testing in the fields for which the Engineering Test Institute has been authorized and accredited:

- boilers fired with gaseous, liquid and solid fuels, electroboilers, low-pressure steam boilers
- industrial furnaces
- flue exchangers, small incineration plants up to 3 t/h
- household heating appliances burning solid fuels (roomheaters, fire places, stoves, etc.)
- storage water heaters (hot water, electric, combined, steam, gas)
- storage tanks
- burners fired with gaseous, liquid and solid fuels
- infra-red heaters (light, dark, outdoor fired with gaseous fuels)
- air heaters with/without an exchanger fired with gaseous, liquid and solid fuels
- gas appliances intended for large-scale kitchens, laundries and communal sphere
- household gas appliances (stoves, refrigerators, roomheaters, fire places, grills, cookers)
- air-conditioning equipment, ventilators, heat pumps, filters, air cleaners, air piping
- heating bodies, convectors, systems of floor, wall and ceiling heating
- interlocking, auxiliary and balancing equipment for central heating, expansion tanks
- solar collectors
- wastewater treatment plants (as well domestic) including equipment
- wastewater pumping plants
- (industrial, contaminated) water treatment plants
- heat exchangers, calorifier rooms

The testing laboratory offers as well:

- authorized exhaust-emission measurements
- examinations aimed at grant of the mark "ecologically desirable product"
- complete analyses of solid, liquid and gaseous fuels (element analysis of C, H, N, S, O)
 - test of combustion heat and heat power, ashes and stub, volatile combustibles, water content
 - test of viscosity at various temperatures, density, flash and burning point, setting point
 - test of acidity, acid and saponification number, hydrogen sulphide content
- independent measurements of:
 - air volume flow, characteristics of ventilators with discharge up to 5,000 m³/h
 - leakage with air as medium (e.g. for air piping, cabins, combustion chambers)
 - hydraulic friction of liquids (e.g. in exchangers)
 - humidity of air mass also over 100 °C, dust emission in air mass.

The testing laboratory operates as the Technical Support Centre in the field of heat appliances fired with gaseous, liquid and solid fuels, it deals with consultation activity, it carries out tests according to Czech and foreign standards and legal provisions, verification of production management system (pursuant to GR 163/2002 Coll., 22/2003 Coll., 25/2003 Coll., 26/2003 Coll.) and verification of quality management system (pursuant to CSN EN ISO 9001:2009).

Within the fields of its authorization and accreditation the testing laboratory verifies, measures and assesses any and all decisive technical properties of heat appliances, environment-friendly devices and product safety under operation.

Following the provisions of Act No. 102/2001 Coll., the testing laboratory verifies safety of products in line with the appropriate standards or with technological know-how and scientific knowledge at their launch.

The Engineering Test Institute provides certificates not only for the Czech and European market, but also for other foreign market on the basis of preliminary agreement.

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TESTING LABORATORY OF MECHANICAL APPLIANCES



The Engineering Test Institute, being EC Notified Body 1015 and Authorized Body 202 is ready to provide and grant a wide spectrum of services. We offer our services in the field covered by the Act No. 22/1997 Coll., as amended, on technical requirements to products, concerning assessment of conformity and by related Government Regulations (EC Directive): 9/2002 Coll., (2000/14/EC), 19/2003 Coll., (88/378/EEC), 20/2003 Coll., (2009/105/EC), 21/2003 Coll., (89/686/EEC), 22/2003 Coll., (2009/142/EC), 176/2008 Coll., (2006/42/EC), 26/2003 Coll., (97/23/EC), 42/2003 Coll., (2010/35/EU), 163/2002 Coll., 173/1997 Coll., 336/2004 Coll., (93/42/EEC), as amended.

The Testing Laboratory is accredited by the Czech Accreditation Institute as the Accredited Testing Laboratory No. 1045.1. It provides verification and certification of conformity, carries out tests and renders services in the fields which the Engineering Test Institute has been authorized and accredited for:

- machines and machinery;
- equipment for mechanical, chemical and electrochemical surface treatment and providing organic coatings;
- fittings for gaseous fuels;
- components of burners and gaseous fuel appliances;
- hoses and fittings for connection of gas appliances;
- fittings for central heating systems;
- fittings for drinkwater;
- hydraulic and water hoses;
- components for natural gas-powered vehicles;
- pressure bottles and vessels;
- portable, movable and attached fire extinguishers;
- head protective aids - sport helmets, protective helmets for industrial plants and for firemen;
- medical devices - aids for immobile patients;
- ladders;
- toys and children playgrounds.

The Testing Laboratory also carries out:

- climatic testing (heat, cold, humidity, dry heat);
- artificial ageing of plastics pursuant to ČSN EN ISO 4892;
- pressure tests up to the max. pressure of 2000 bar;
- corrosion tests in salt mist pursuant to ČSN EN ISO 9227;
- measurement of noise characteristics and of vibrations;
- measurement of dustiness;
- assessment of playgrounds surface according to ČSN EN 1177;
- evaluation of bottles and vessels according to the European Agreement concerning the International Carriage of Dangerous Goods by Road - ADR and according to the Regulations concerning the International Carriage of Dangerous Goods by Rail - RID;
- assessment of safe operation of machines, technical equipment, instruments and tools pursuant to GR 378/2001 Coll., (89/655/EEC).

The Testing Laboratory also comprises the Center of Technical Assistance, provides consulting activities and tests pursuant to Czech and foreign technical standards and regulations.

The Engineering Test Institute provides certificates not only for the Czech and European market, but also for other foreign market on the basis of preliminary agreement.



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TESTING LABORATORY OF ELECTRICAL APPLIANCES



The Engineering Test Institute, being EC Notified Body 1015 and Authorized Body 202 is ready to provide and grant a wide spectrum of services. We offer our services in the field covered by the Act No. 22/1997 Coll., as amended, on technical requirement to products, concerning assessment of conformity and by related Government Regulations (EC Directive): 17/2003 Coll., (2006/95/EC), 616/2006 Coll., (2004/108/EC), 22/2003 Coll., (2009/142/EC), 176/2008 Coll., (2006/42/EC), 27/2003 Coll., (95/16/EC), 163/2002 Coll., 336/2004 Coll., (93/42/EEC) as amended.

The Testing Laboratory is accredited by the Czech Accreditation Institute as the Accredited Testing Laboratory No. 1045.1. It provides verification and certification of conformity, carries out tests and renders services in the fields which the Engineering Test Institute has been authorized and accredited for:

- electrical equipment of processing machines;
- electrical equipment of heat appliances;
- electrical equipment of devices and components for automatic control systems;
- electrical laboratory, scientific and optical instruments;
- electromagnetic compatibility;
- selected el. appliances for households and similar applications;
- office engineering and data processing engineering;
- medical devices, incl. el. instruments and appliances;
- vibration tests according to ČSN EN 60068-2-6;
- tests of danger approach protection devices in the machines with the straight operating motion;
- tests of the electrical device IP covering;
- electrical welding supplies;
- calculations of the safety integrity level (SIL);
- another electrical equipment.

The Testing Laboratory also comprises the Center of Technical Assistance, provides consulting activities and tests pursuant to Czech and foreign technical standards and regulations.

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TECHNICAL INSPECTION



The Engineering Test Institute, being EC Notified Body 1015 and Authorized Body 202 is ready to provide and grant a wide spectrum of services. We offer our services in the field covered by the Act No. 22/1997 Coll., as amended, on technical requirement to products, concerning assessment of conformity and by related Government Regulations (EC Directive) as amended:

27/2003 Coll., (95/16/EC) lifts, 26/2003 Coll., (97/23/EC) pressure equipment, 20/2003 Coll., (2009/105/ES) simple pressure vessels, 42/2003 Coll., (2010/35/EU) transportable pressure equipment, 163/2002 Coll., selected construction products (welding consumables, reservoirs and containers), 173/1997 Coll., devices for public entertainment incl. equipment of playgrounds, 176/2008 Coll., (2006/42/EC) construction lifts and 309/2005 Coll., nuclear facilities.

Technical Inspection is accredited by the Czech Accreditation Institute as the Accredited Inspection Body No. 4008. The inspection carries out assessment of conformity and certification and provides tests and services in the fields for which the Engineering Test Institute is authorized and accredited:

- pressure equipment
- hoisting devices incl. lifts
- electrical appliances
- gas appliances
- verification of professional capability of the entities for specific activities
- technological units, including the equipment in areas with the danger of explosion of inflammable gases, fumes and dust, and with the danger of fire or explosion of explosives
- devices for public entertainment, incl. equipment of playgrounds and installations with moving points of persons
- selected equipments specially designed for nuclear facilities

TI - Technical Inspection also grants specialized technical services within the scope above in the process of assessment of conformity as a third independent party, both for new and operated devices. All inspection activities can thus be utilized both by inland manufacturers and importers or foreign vendors, whose activity is connected with the necessity to prove conformity when launching the Czech market or when exporting the products to EU countries.

The carried out inspection activity is always accompanied by a document in the form of the inspection report concerning result of assessment of conformity with the specified requirement for provision of safety of technical devices.

The Inspection Certificate, being the necessary precondition for issue of the "Declaration of Conformity" can be issued if all requirements are fulfilled and met.

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ASSESSMENT OF PRODUCT CONFORMITY PURSUANT TO ACT NO. 22/1997 COLL., AS AMENDED



Notified Body 1015 of the European Community Authorized Body 202

- Accredited Testing and Calibration Laboratory
- Accredited Certification Body for certification of products, quality and safety systems and personnel
- Accredited Inspection Body

offers to its customers **services, relating to assessment of product conformity pursuant to Act No. 22/97Coll., as amended, for the European market and for market in countries out off Europe.**

The Engineering Test Institute develops activities within the scope of the following Government Regulations (EC Directive) that lay down technical requirements to:

9/2002 Coll.	2000/14/EC	noise emission
17/2003 Coll.	2006/95/EC	low-voltage el. equipment
18/1997 Coll.		Atomic Act
19/2003 Coll.	88/378/EEC	toys
20/2003 Coll.	2009/105/EC	simple pressure vessels
21/2003 Coll.	89/686/EEC	personal protective equipment
22/2003 Coll.	2009/142/EC	gas appliances
25/2003 Coll.	92/42/EEC	efficiency of hot water boilers
26/2003 Coll.	97/23/EC	pressure equipment
27/2003 Coll.	95/16/EC	lifts
42/2003 Coll.	2010/35/EU	transportable pressure equipment
70/2002 Coll.	2000/9/EC	drag lifts
163/2002 Coll.		selected building products
173/1997 Coll.		selected products
176/2008 Coll.	2006/42/EC	machinery
190/2002 Coll.	89/106/EEC	CE-marked construction products
309/2005 Coll.		nuclear facilities
336/2004 Coll.	93/42/EEC	medical devices
616/2006 Coll.	2004/108/EC	EMC

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CERTIFICATION OF MANAGEMENT SYSTEMS



Notified Body 1015 of the European Community Authorized Body 202

The Accredited Certification Body for Management System Certification No. 3007 accredited pursuant to ČSN EN ISO/IEC 17021 by the Czech Accreditation Institute - signatory of the Multilateral Agreement of EA ("European co-operation for Accreditation") offers the following to its customers:

Quality management system certification pursuant to the standard **ISO 9001:2008** in engineering companies and for selected services, **ISO 13845:2003** for medical devices, **EN ISO 3834-2:2005** for welding and **OHSAS 18001:2007** for Occupational health and safety management systems.

The Engineering Test Institute is the member of the "CQS - Czech Association for Quality Certification", associating further six certification organizations.

The "Association" is a full member in the IQNet (The International Certification Network), consequently through the Engineering Test Institute you can obtain the certificate recognized in more than 30 countries (USA, Australia, EU, Israel, Japan, Canada, Korea, Switzerland, etc.).

Lead auditors of the Engineering Test Institute are holders of QA and EOQ certificates. In addition to it, they have long-time practice in management system verification in companies with both, Czech and foreign property participation.

Prices for management system certification and audit are very favourable. The same also concerns issue of the IQNet certificate.

Do not hesitate to contact us on the address below should you be interested in more detailed information.

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CERTIFICATION OF PRODUCTS FOR EXPORT



EUROPEAN UNION



RUSSIAN FEDERATION



UKRAINE



Furnishing the products by the relevant certificate and marking the products by the relevant certification mark prior to launching the products is the necessity or at least business strength for a majority of foreign markets.

The Engineering Test Institute, being EC Notified Body 1015, has gathered long-term experience in the field of overcoming the technical obstacles to business and trading activities in foreign markets.

Based on the contacts and accreditations abroad, the Engineering Test Institute is able to provide a number of certificates facilitating launching of the products in the regions of interest.

The services offered in this field are mainly as follows:

- incoming analysis
- preparation of technical requirements
- product testing and check of documentation
- issue of certificates or reports

The Engineering Test Institute provides certificates particularly for the following territories:

Belarus, European Union, Russian Federation, Ukraine.

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ACCREDITED CALIBRATING LABORATORY



The Engineering Test Institute, being EC Notified Body 1015, Authorized Body 202, offers services of its Accredited Calibrating Laboratory in the field covered as follows:

- pressures within the range of 0,2 kPa - 70 MPa, (in Brno only)
- temperatures within the range of 0° - 250°C, resp. 1000°C, (in Brno only)
- electric quantities: voltage up to 1100 V, (in Brno only)
current up to 20 A, (in Brno only)
resistance up to 100 MW, (in Brno only)
- lengths (in Jablonec only)

To provide these activities the Calibrating Laboratory No. 2232 and 2280 are accredited by the Czech Accreditation Institute.

The laboratory is equipped for calibration of gauges by up-to-date instruments made by reputable manufacturers. Tests and basic measurements are carried out pursuant to methodics stated in the appropriate technical standards, respectively pursuant to methodics processed on the basis of recent knowledge of science and technics.

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The Engineering Test Institute, being EC Notified Body 1015 and Authorized Body 202 is ready to provide and grant a wide spectrum services in the fields and scopes of activities below.

CONFORMITY ASSESSMENT		OTHER EXPERT SERVICE FIELDS	
		Material tests	Testing and verification
<ul style="list-style-type: none"> - Government Regulation 9/2002 Coll. (2000/14/EC) - Government Regulation 17/2003 Coll. (2006/95/EC) - Government Regulation 19/2003 Coll. (88/378/EEC) - Government Regulation 20/2003 Coll. (2009/105/EC) - Government Regulation 21/2003 Coll. (89/686/EEC) - Government Regulation 26/2003 Coll. (97/23/EC) - Government Regulation 27/2003 Coll. (95/16/EC) - Government Regulation 42/2003 Coll. (2010/35/EU) - Government Regulation 163/2002 Coll. - Government Regulation 173/1997 Coll. - Government Regulation 176/2008 Coll. (2006/42/EC) - Government Regulation 190/2002 Coll. (89/106/EEC) 	<ul style="list-style-type: none"> noise emission low voltage el. equipment toys simple pressure vessels personal protective equipment (only alpinism) pressure equipment lifts transportable pressure equipment selected building products selected products (equipment for playgrounds) machinery CE-marked construction products 	<ul style="list-style-type: none"> - tensile test ($R_{p0.2}$; R_m; A) - upsetting (pressure) test - bending impact test ($při +20^{\circ}C -40^{\circ}C +150^{\circ}C$) - bending test - strength test - hardness test (Vickers, Rockwell, Brinell) - ultrasonic defectoscopy of materials and welds (level 2 pursuant to EN 473) - visual defectoscopy of welds (pursuant to EN 970) - breakdown test - corrosive resistance test - durability test - surface treatment test (thickness, adhesion, etc.) - torsion test up to 500 Nm - tests for inspection certificates 3.1 for metal materials - welding qualification test (complete) - determination of spring characteristics - determination of normal anisotropy coefficient (r), (flat metal products) 	<ul style="list-style-type: none"> - tools and fixtures - handling, transportation and storage engineering - metallurgical product and cast pieces - fasteners - household and kitchen equipment and utensils - equipment for playgrounds and sports centres - security engineering, locks and fittings - safes and bars - office and school furniture - camping furniture - sports outfitting, leisure time goods - children vehicles - bicycles - alpine equipment (UIAA certification)
SUPPORT OF EXPORT		Analyses <ul style="list-style-type: none"> - metallographic analysis including documentation - spectral analysis of composition of metal materials 	Calibration services Calibration of length measuring devices <ul style="list-style-type: none"> - slide gauges - micrometer callipers - deviation meters - plain callipers - angle bars - feeler gauges - steel measuring scales - tape meters
<p>We are able to provide certification marks for your products, e.g.:</p>    <p>KEYMARK ČSN TEST RUSSIAN FEDERATION</p>   <p>UKRAINE GERMANY</p>		Measurements <ul style="list-style-type: none"> - of strength up to 500 kN - of water pressure up to 1000 bar and air pressure up to 700 bar (tightness, until burst) - of acoustic emissions (noise) 	Calibration of pressure gauges

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