

Strojírenský zkušební ústav, s.p. (SZU) – Engineering Test Institute, Public Enterprise is the EC **Notified Body 1015**, accredited for assessment of conformity to 14 EC directives.

Besides **conformity assessment**, SZU in Jablonec offers to its clients specialised services of the **testing laboratory** and of the certification body for **certification of products**. It also functions as a **calibration laboratory**.

Besides other, SZU is the **DVGW** (Deutsche Vereinigung des Gas- und Wasserfaches) accredited laboratory in the field of gas and water fittings and gas appliances as well as the **UIAA** (International Mountaineering and Climbing Federation) accredited laboratory for all alpine equipment.

In the framework of **GS** certification scheme, SZU has become a recognized laboratory „Zentralstelle der Länder für Sicherheitstechnik“, and it is also a recognized laboratory for testing within the Korean **KCs** and **S-mark** certification schemes.



**STROJÍRENSKÝ
ZKUŠEBNÍ ÚSTAV, s.p.**

You probably would like to ask some questions about the legislation generally, as well as about the regulations concerning the field of testing and certification.

If so, our experts are here for you to give you all answers and to find the best possible solution for you.

All information about our services can be found on www.szutest.cz.

Please, do not hesitate to contact us.



What does the certification of the product involve?

For how long is the Certificate valid?

What is the conformity assessment?

We are developing a new product and need to verify the parameters. Is it possible to do so in your test facility?

What tests should be conducted on the product prior to its marketing?

What is the CE-marking of the product?

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JABLONEC NAD NISOU

SERVICES WE OFFER

Notified Body 1015

CONFORMITY ASSESSMENT

Description	European Parliament and Council Regulation
Construction products bearing the CE mark (CPR)	Regulation (EU) No. 305/2011

Description	Government regulations	EU directives
Low-voltage el. equipment (LVD)	17/2003 Coll.	(2006/95/EC)
Transportable pressure equipment (TPED)	208/2011 Coll.	(2010/35/EU)
Simple pressure vessels (SPVD)	20/2003 Coll.	(2009/105/EC)
Machinery (MD)	176/2008 Coll.	(2006/42/EC)
Personal protective equipment (PPE)	21/2003 Coll.	(89/686/EEC)
Toys (TOYS)	86/2011 Coll.	(2009/48/EC)
Noise emission (NED)	9/2002 Coll.	(2000/14/EC)
Safe use of work equipment by workers at work	378/2001 Coll.	(2009/104/EC)
Selected construction products	163/2002 Coll.	
Selected products Equipment and playground surfacing, Rope centres, Water chutes and water slides, Inflatable playground equipment, Equipment for users of roller sports - skateparks	173/1997 Coll.	

SPECIALISED SERVICES

TESTING AND VERIFICATIONS, CERTIFICATION OF NON-REGULATED PRODUCTS

- handling, transport and storage equipment
- metallurgical products, castings
- fasteners
- accessories and equipment for household and kitchen
- equipment for playgrounds and sports
- security equipment, locks and hinges
- safes, grilles
- furniture (office furniture, school furniture, outdoor furniture, rows of seats, baby beds, ...)
- sports equipment, leisure equipment
- prams
- baby care products (bicycle seats, carrycots, child carriers, ...)
- bicycles and their components
- child bike trailers
- climbing gear (UIAA certification)

CERTIFICATION FOR FOREIGN MARKETS

- **Russia**
(e.g. GOST R, registered declaration, TR certificate)
- **Ukraine**
(e.g. UKRSepro)
- **Customs Union - Russia, Belarus, Kazakhstan**
(e.g. EAC certificate)
- **Germany**
(GS mark - Geprüfte Sicherheit, DVGW certificate - Deutsche Vereinigung des Gas und Wasserfaches)
- **China**
(CCC certification mark - Chinese Compulsory Certification)
- **South Korea**
(KCs and S-mark certification schemes)
- **UIAA**
(International Mountaineering and Climbing Federation)

MATERIALS TESTING

- tensile tests ((R p 0,2; R m; A)
- compression tests
- impact bending (at +200 °C, -70 °C)
- bending
- strength
- hardness (Vickers, Rockwell, Brinell)
- ultrasonic defectoscopy of materials and welds (Level 2 according to EN 473)
- visual weld defectoscopy (according to EN 970)
- breakdown
- corrosion resistance
- durability
- surface treatment (thickness, adhesion etc.)
- torsional tests up to 500 Nm
- tests for inspectional certificates 3.1 for metallic materials
- qualifying welders' tests (a complete scheme)
- determination of characteristics of springs

ANALYSES

- metallographic analyses including photographic documentation
- spectral analysis of the metallic materials composition

MEASUREMENTS

- force up to 500 kN
- hydraulic pressure tests up to 1000 bar and pneumatic tests up to 700 bar (leak tightness, up to a total rupture)
- acoustic emissions (noise)
- measuring of strength and leak tightness, of deflection factors on air-conditioning ducts (Sheet metal air ducts acc. to EN 1507 and acc. to EN 12237)

CALIBRATION SERVICES

- calibration of length and work gauges: slide callipers, micrometers, course deviation indicators, smooth gauges, try squares, feeler gauges, steel scales, tape measures
- calibration of pressure gauges