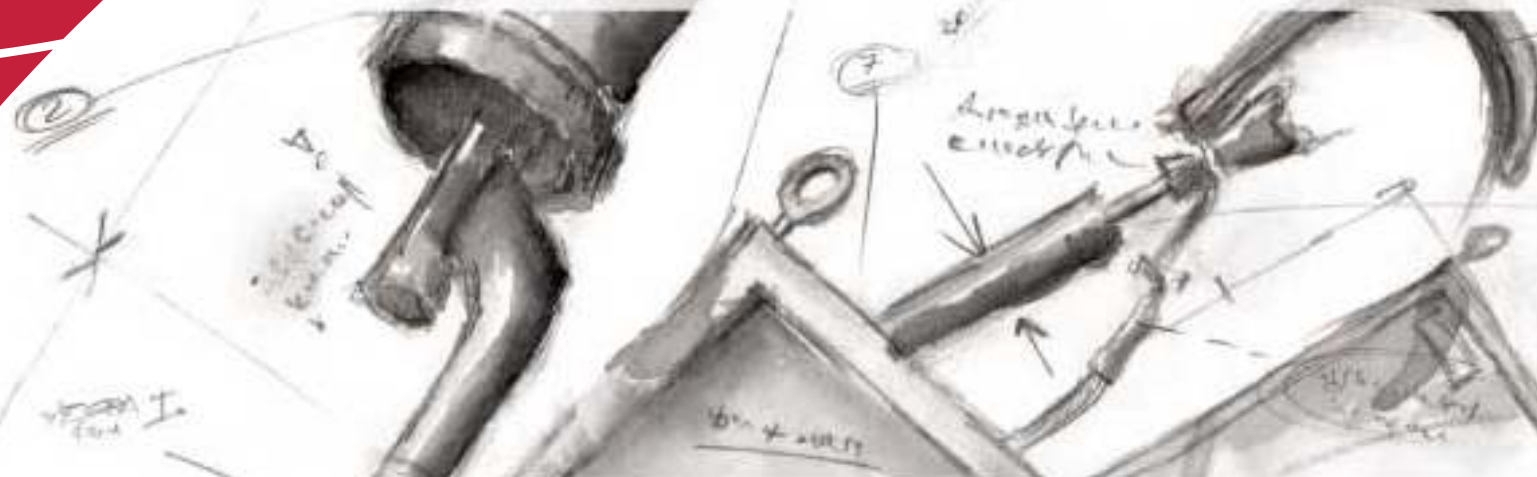




ESPA

Energostrojírny Pardubice a.s.



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fax: +420 / 466 500 567

email: espa@espa.cz

www.espa.cz

www.espa.cz



**we know almost everything
about your energy**

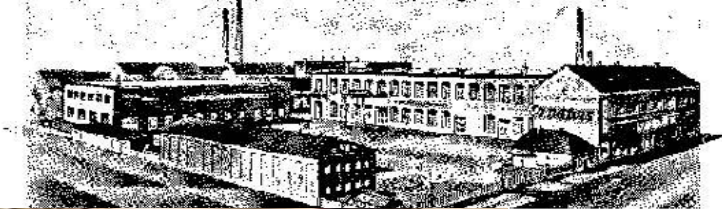
Tradition and Present Period

The tradition of the present company Energostrojírny Pardubice, a.s. started with founding an electrotechnical factory by Mr J. Vadas in 1919. Since the very beginning of its existence the firm has been engaged in the manufacture of electrical machines and instruments. Its workshops providing repairs of generators, dynamos, motors and transformers have also become well-known. The cooperation with the company Bosch has contributed as well to enrichment of the production sphere above all with electrical heating appliances.

After the year 1948 the company operated within the Czechoslovak power generating plants. The traditional production was enlarged with manufacture of switchboards and the services provided in heavy-current electrical engineering were extended with transformer repairs. The new part of the company development started by building a modern industrial area in Černá za Bory near Pardubice in 1980s.

When the process of privatization was completed, in the year 1992 the company was transformed into a joint-stock company under the name of Energostrojírny Pardubice, a.s (ESPA). Long-term traditions of the electrical engineering in the region of Pardubice and the goodwill of the company Vadas oblige their direct successors to improve their products and services continually. This is also confirmed by the introduction of the quality control system in production - EN ISO 9001:2001 as well as by the prestigious assessment of certain products.

ELEKTROTECHNICKÁ TOVÁRNA J. VADAS



TDS Brno - SMS, s.r.o.

Mariánské nám. 1, 617 00 Brno, Morava, Česká republika (CZ)

Člen AIO, TDS, CWS ANS (člen EWF, IW a IAB) P

členství v AIO, TDS, CWS ANS (členství v EWF, IW a IAB) P

Technická, školicí, zkušební, certifikační a inspekční činnost

Technical, training, testing, certification and inspection activity

TDS-SMS-COJ, Certification Body for certification of management systems No 3151,
accredited by Czech Accreditation Institute, Public Service Company
according to EN ISO/IEC 17021:2006

hereby issues

CERTIFICATE

and confirms that the organization

Energostrojirny Pardubice, a.s.
Průmyslová 393
530 45 Pardubice, CZ

implemented and uses the Quality Management System, which has been assessed and
that its compliance with the standard requirements has been established.

EN ISO 9001:2000

for the following spheres of activities:

DESIGN AND PRODUCTION OF LOW VOLTAGE SWITCHBOARDS
AND PROTECTIVE AIDS
DESIGN AND PRODUCTION OF PRESSURE DEVICES AND
METAL STRUCTURES FOR POWER AND BUILDING INDUSTRY

This certificate is valid with the assumption that further maintenance of the Quality Management System
will be done in accordance with the above standard, which will be monitored by the above mentioned
Certification Body.

No of certificate: TDS-SMS-COJ-017

The certificate is valid until: 22.01.2012

No of Audit Report: 017/2009

Date and place of the primary certificate issuance: 09.10.2002, Praha

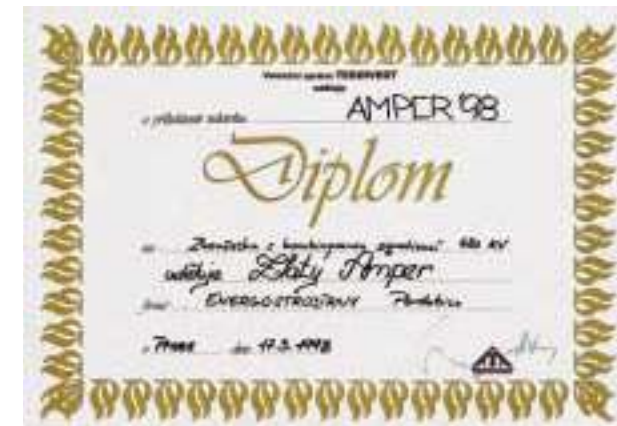
Date and place of the latest certificate issuance: 23.01.2009, Brno

Ing. Jan Opletal
Deputy of Certificate Body



Ing. Dr. Vladimír Kudělka
Director of TDS Brno - SMS, s.r.o.

TO AUTHENTICATE OUR CERTIFICATE CALL +420 5425 370 700
TECHNICKÉ DOZOROVÉ SYSTÉMY • SPECIÁLNÍ MANAŽERSKÉ SYSTÉMY • TECHNICAL INSPECTION SYSTEMS • SPECIAL MANAGEMENT SYSTEMS





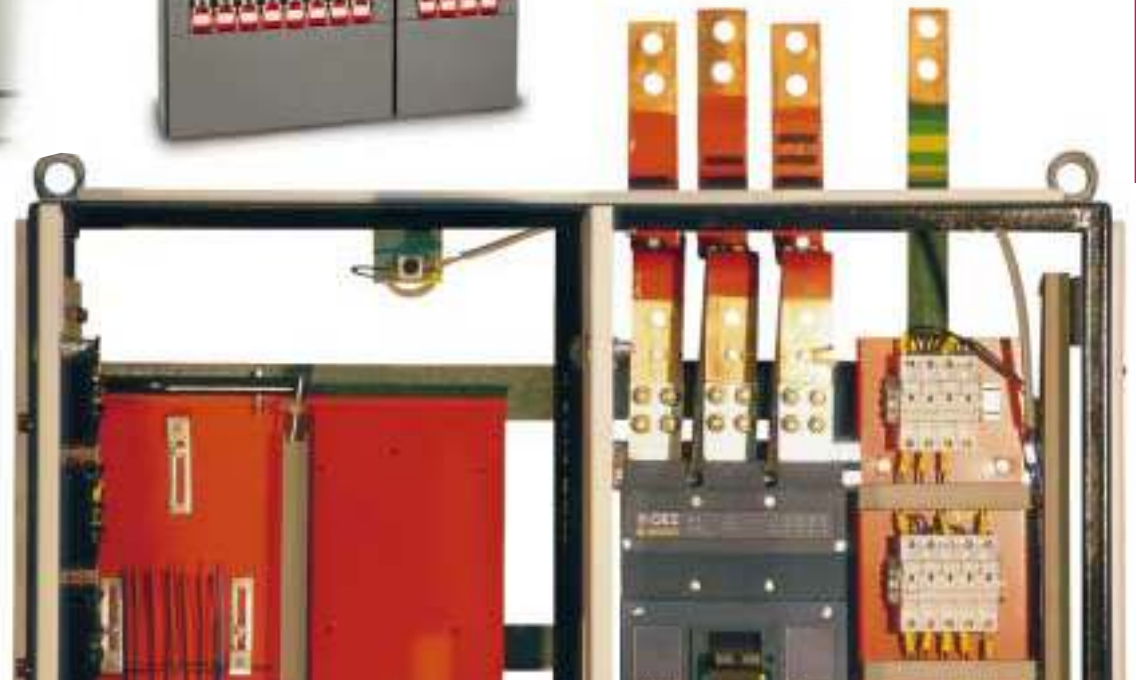
**maximum variability
minimum space**

Indoor Switchboards

URS, US and RDK

Box-type indoor switchboards URS and US are designed for the distribution of low-voltage electrical energy, regulation and measurement, technological control, signalling and controlling in industrial premises and energy distribution stations. Modern unit design of switchboards enables their use together with other instruments in energy distribution systems, machine and technological process control, including electrical devices of various equipment, to compensate wattless power etc. According to your needs, different kinds of door (one-sided, two-sided as well as glazed) may be chosen or fixed panels may be selected instead of these. The design of box switchboards enables to adjust dimensions according to your requirements.

Owing to their modern design, switchboards RDK are suitable for new distribution transformers. With this type you will certainly appreciate its minimum space demands.





precision guaranteed

USM, RVO, compensating switchboards, boxes

Versatile measuring box (USM) enables to concentrate and to assemble all common measuring, registration and auxiliary devices in a unified way. It is designed to register the consumption of electrical energy as well as other variables, first of all for wholesale customers. The boxes are equipped on the grounds of your specific requirements.

The switchboard RVO serves to ensure public lighting and control it automatically, in particular in towns and large villages. It is designed for cascade connection or may be used as a control box. It is equipped with a time switch, light (dusk) relay or control pulses HDO may be used.

Compensating switchboards are used in low-voltage industrial distributions to compensate the wattless power of electrical appliances. The control microprocessor may be set exactly according to the effect required. Constructional elements are in correspondence with your requirements, ie. the type of regulators, number of regulating stages, design of condensers and bus-bars.

Due to the customized production you can also place an order with our company for various steel-plate as well as stainless boxes which we can design and make to measure for you.





safety operation in every kind of weather

RST, building and reconstruction of transformer station

Outdoor switchboards RST are LV switchboards up to 1250 A designed for transformers used to supply consumption places up to the rated output of the transformer equal to 800 kVA. According to your needs you may choose between the all-sheet or stainless design.

Deliveries and assemblies of new HV/LV transformer stations as well as reconstruction of existing ones are one of our traditional services. Besides the construction itself we can offer you a project documentation, provision of territorial as well as construction control and inspections. The reconstruction is started with a detailed inspection of the site and detailed facts found in the site are recorded. On the grounds of these facts the scope of work and the total price are calculated individually. We will provide you this way with a fast and first-rate reconstruction of present transformer stations as well as construction of newly built ones in the united design according to your technical requirements and traditions.

Other services

Energostrižný Pardubice can offer a number of another products from areas energetics inclusive container transformer stations.





**for safety
work**

Short circuiting equipment

We can offer a number of various short-circuiting units which differ from each other in use and in their parameters. The basic offer includes station units, outdoor units, fast-clamping ones, units for flat wires, for fuse outputs and for traction lines UTTV.

Each short-circuiting unit is basically a handling pole consisting of one or more parts, which is ended with short-circuiting jaws, clamps or cartridges. The jaws and clamps are designed according to shapes and diameters of wires (tubular, circular, flat wires, ball pin, fixed T-shaped connecting point). To interconnect jaws and to connect jaws with earthing clamps, Cu-cables are used. According to their purpose of use the units also contain earthing probes with jaws, pulleys with arms, portable fencing or earthing ropes.

According to individual types we can deliver short-circuiting units in portable and protective packing or in cases.





Testers and phasing units

Testers, phasing units

VHV and HV testers are used to find out whether VHV or HV with frequency of 50 Hz is present. They are designed for combined use indoors as well as outdoors in all weather conditions (rain, snow etc.). The testers are equipped with combined optical and sound signalling.

The direct-current testers are also equipped with combined signalling. They are used to find out whether high DC voltage is present. They are designed for use indoors as well as outdoors under normal conditions

Phasing units are used to indicate a difference in alternate current phases with frequency of 50 Hz. They are equipped with optical and acoustic signalling and are also used indoors as well as outdoors under normal conditions.

These products are made in compliance with standards IEC, ČSN 359700 and are delivered in portable packing including respective instructions for use.





Other protective aids

Ice scraping pole is used to scrape off icing on HV and VHV lines during the winter months. The pole of the total length of 6 or 8 m may be obtained by screwing two-metre-long fibreglass parts together. The pole is ended with a galvanized hook.

The rescue hook is one of the aids used at work and operation of electrical equipment in networks with rated voltage equal to 40.5 V and is used to rescue people exposed to electrical shock.

The disconnecting poles (types 450.000, 451.000 and 457.000) are designed to control connecting gears, transfer switch gears and earthing gears in distribution transformer stations with voltage up to 40.5 kV. They consist of the disconnecting plastic pin and insulating glassfibre pole with a protective collar. The mark on the pole determines the position up to which the pole end with the collar may be put between parts under voltage.

The handling pole with a twist-grip in its lower part is used to control the circular drives of the disconnecting gears, to tighten the fastening units etc . in stations with voltage up to 40.5 kV. The (square) end pin as well as the insulating pole length may be altered according to your needs.

The fuse pliers are designed for work with fuses in fuse holders under voltage in interiors of electrical stations. The pliers are made in compliance with standards ČSN 35 9700 and ČSN 35 9701.

