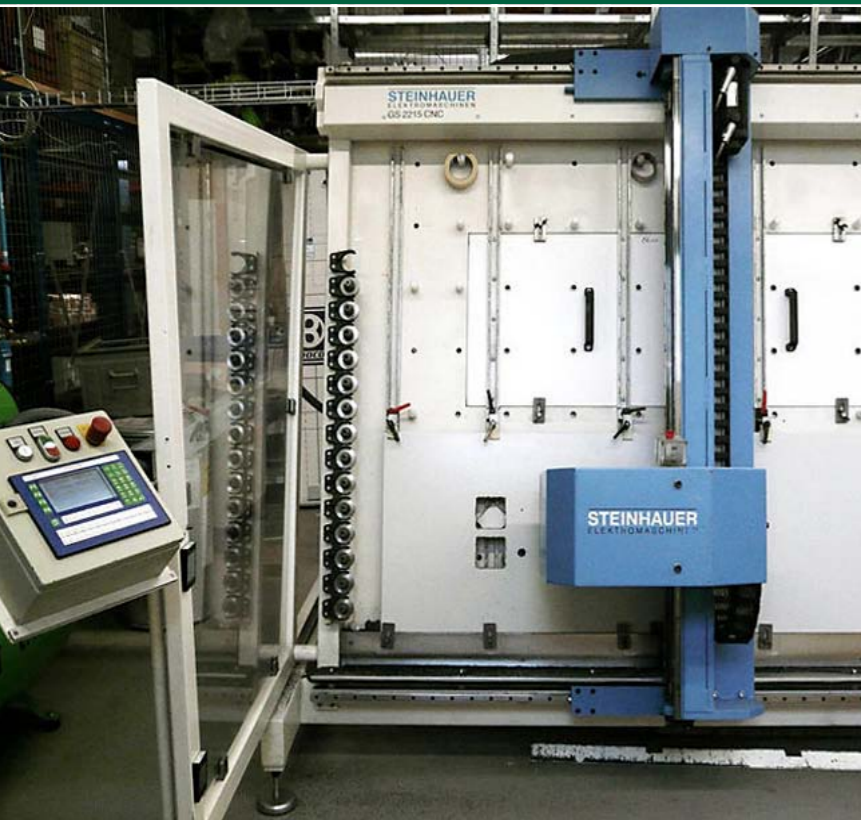




# Global Business

LOW VOLTAGE ELECTRIC SWITCHBOARDS PRODUCTION UP TO 7000AMP  
 SIEMENS SIVACON TECHNOLOGY PARTNER  
 ENGINEERING AND SUPPLY OF BUSBAR TRUNKING SYSTEMS  
 ENGINEERING OF ELECTRIC EQUIPMENT AND SWITCHBOARDS  
 ANALYSIS OF DISTRIBUTION MAINS, INFRARED THERMOGRAPHY (IRT)



## Company Headquarters

Global Business s.r.o.  
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## Production facility of electric switchboards

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## PRODUCTION

- LOW VOLTAGE ELECTRIC SWITCHBOARDS PRODUCTION UP TO 7000AMP
- SIEMENS SIVACON S8 SYSTEM LICENSED PARTNER
- DESIGNING AND MANUFACTURING OF LV BUSBAR TRUNKING SYSTEMS UP TO 6300AMP
- DESIGNING AND MANUFACTURING OF DRAW-OUT MCC (MOTOR CONTROL CENTER) SWITCHBOARDS
- DESIGNING AND SUPPLY OF FAST AND CONTACTORS COMPENSATION
- ENGINEERING AND PRODUCTION OF DC ELECTRIC SWITCHBOARDS WITH ACCUMULATORS

## PROVIDED SERVICES

- ENGINEERING OF ELECTRIC SWITCHROOMS AND SWITCHBOARDS
- DESIGNING AND 3D VISUALIZATION OF LV BUSBAR TRUNKING SYSTEMS
- COMPREHENSIVE RETROFIT OF LV ELECTRIC SUBSTATIONS
- INFRARED CAMERA THERMAL IMAGING
- DISTRIBUTION MAINS ANALYSIS
- ENGINEERING AND SERVICES OPERATION

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## About Global Business s.r.o. company

Global Business company is specifically involved in designing, manufacturing and engineering of LV electric switchboards and busbar systems with rated voltage up to 1000V AC / 1500V DC and rated current up to 7000Amp. With regard to yearly volume of production the company belongs to five the biggest manufacturers of LV electric switchboards in Czech Republic. Annual turnover is moving about 6 millions EUR. The company gives work to 50 stable workers.

From the beginning of 2010 year Global Business became as a regional SIEMENS partner concerning to designing, manufacturing and distribution of type tested electric switchboards under the brand name SIVACON Siemens. Furthermore in 2012 the company became General Electric partner for manufacturing of type tested PCC and MCC switchboards in SEN Plus system. From the beginning of 2013 year Global Business started close cooperation and partnership with Danish company Logstrup with aim of full rights for using Logstrup technology and type tested boxes for electric switchgears production process.

Related to significant partnerships above we can offer to our customers high quality PCC and MCC electric switchboards assembled with full tested components from leading world-class producers of LV switching and installation components (Siemens, ABB, Schneider Electric, Eaton, General Electric).

The company have the use of the necessary certificates and tests related to production of LV electric switchboards and the other offered services.

## Products

### I. LV Switchboards:

1. **Partially type tested LV switchboards up to 6300A and 176 kA.** For production process we use one's own certified system. It is related to switchboard series under the type designation – industrial switchboard of type RH4.

2. **MCC (Motor Control Centres) switchboards.** It is concerning fully tested draw-out/plug-in switchboards or solid version with internal separation of functional units (2a – 4b) determined for feeding and controlling of motors. For MCC switchboards we use standard boxes of producers as follow:

- Siemens – SIVACON S8 system
- General Electric – SEN Plus system
- Logstrup – Omega system



Thanks to the wide offerings of possible alternative solutions we are able to design and produce any kind of completely type tested switchboard in accordance to customer requirements, with components from leading world-class producers (Siemens, ABB, Schneider Electric, Eaton, General Electric).

3. **PCC switchboards (Power Control Center)** – specified for dividing of the performance. It is concerning fully type tested switchboards with internal separation of functional units. For production proces we use the same type boxes similar to MCC switchboards.

4. **Technological switchboards** with control system together with measurement and control system switchboards.

5. **Compensation switchboards.** For manufacturing of this switchboard type we use one's own certified system as a standard. It is concerning series of switchboards under the type marking – RC.

Compensatory sets are supplied in protected or unprotected design either contactor type or for application of fast load changes (spot welders for example) with fast thyristor compensation. In case of customer requirements we can even supply drawer type of compensatory set (APFC panel, plug-in design).

6. **ATS switchboards** for power supply backup. It is concerning special switchgears of one's own design that for control of power supply take advantage of programable relay Logo Siemens. For controlling of power supply backup can be even used superior control machine, for example Modicon of Schneider Electric in continuity to central control system. Optionally on customer request we can design complete application included visualization the whole system with using of Vileo Citect (SCADA system) of Schneider Electric company.

7. **Switchgears for power industry.** High-performance switchgears with seismic strength in Siemens, General Electric or Logstrup boxes.

8. **Switchgears for solar power stations** either AC or DC section.

9. **DC switchgears** included supply of station batteries.

10. **Switchgears for intelligent control system of buildings** included design.

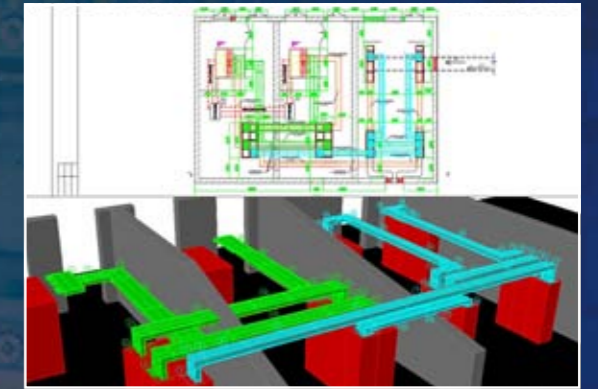
### II. Busbar trunking systems:

Designing and implementation of busbar systems for safe, economical and reliable power distribution. For current transmission from low voltage terminals of transformer up to the smallest electric appliance we use in full type tested systems of Siemens – SIVACON 8PS, Schneider Electric Cannalis and from another leading producers. Apart from design (3D visualization) and consultancy in phase of project creation together we offer technical support, installation and service operation.



## Provided Services

1. Comprehensive retrofits of circuit breakers and LV substations (the company has certificate related to circuit breakers retrofit of OEZ Letohrad, AR and ARV type).
2. Assembling of supplied electric switchboards and start-up participation in Czech republic and also in foreign countries.
3. Designing of LV electric switchboards with using of EPLAN and AUTOCAD programme tools.
4. Designing and 3D visualization of busbar trunking systems with using of AUTOCAD software.
5. Analysis of distribution nets, higher harmonic frequency measuring.
6. Infrared camera thermogram.



## Standard in use – industrial electric switchboard, type RH4

Boxes – Kromexim Product / [www.kmrack.cz/](http://www.kmrack.cz/), Rittal, EATON, alternatively as per customer requirements.

### Devices:

- Safety and switching components – Schneider Electric, ABB, OEZ Letohrad, Siemens, EATON, General Electric or as per requirements.
- Devices for compensation – NOVAR regulators, Electronicon capacitors and chokes.
- Control systems – Siemens, Schneider Electric.
- Frequency converters – Siemens, ABB, Schneider Electric, Danfoss.
- Devices for smart buildings management system – ELKO (INELS system), EATON, ABB.
- Backup automatic machine – Siemens (LOGO) with one's own software.
- Devices for DC applications – FAAM batteries, PEG CZ monitoring devices.

**Terminals** - Free of screw Weidmueller type, alternatively in accordance to customer requirement.

### Wires connection, apparatus and circuits marking:

- Power circuits freely leaded behing assembling rack, operating circuits in perforated troughs.
- All power circuits before protection leaded by cable with strengthened insulation (NSGAFOU).
- Finishing marking of operating circuits with Weidmueller laser printer description.
- Marking of devices with engraved adhesive labels.

**Busbar system** - the company use one's own technical solution which is certified up to 6300A and 176kA. As a material of current carrying tracks solely copper is used. Busbars can be manufactured as bare, covered with transparent plastic sheets or insulated by applied vulcanized medium which after vulcanization process completely cover the busbar included appropriate joins. At busbars linking process we solely use compensative washers.

### Applied system for drawing documentation:

AUTOCAD 2D, 3D, EPLAN

Documentation we can provide in Czech, Russian, English or French language.



## Quality Management System

Global Business s.r.o. is holder of BS EN ISO 9001:2008 and BS EN ISO 14001:2004 from 31 July 2008. Certificates for designing, manufacturing and sale of electric devices and electric switchboards. Object of certification is maintaining and improving the company management according to these standards.

## Certification

Global Business s.r.o. is holder of certificates as follow:

BS EN ISO 9001:2008, BS EN ISO 14001:2004

GOST R

CB certificate

EZU certificates for industrial, compensatory, electromeasuring and building site switchboards

Siemens SIVACON Technology Partner certificate

Certificates for retrofit of OEZ Letohrad AR and ARV circuit breakers

## Export

Global Business company pays high attention to foreign contracts with aim increasing in export percentage related to yearly company turnover. Currently is export about 35% of total company turnover. The company is holder of valid international CB and GOST R certificate for export to Russian federation.

### Global Business products have been repeatedly supplied to countries:

Germany	England	France	Slovakia
Romania	Poland	Hungary	Russia
Belarus	China	Iraq	UAE

