



Mining

Power industry

Public buildings

Traffic tunnels

Road infrastructure

Water and sewage
management

PKiMSA CARBOAUTOMATYKA S.A.



Przedsiębiorstwo Komplektacji i Montażu Systemów Automatyki „Carboautomatyka” S.A. is a company with over 40 years of tradition and experience, offering its services both in the mining industry as well as in the widely understood mining-related industry. Years of experience in the market allowed us to transfer our area of interests to other areas of the economy.

The group is present on the following industries: mining, power industry, public buildings, traffic tunnel, road infrastructure, water and sewage management

We are able to complete turn key investments, providing our customers with flexibility and functionality of the solutions offered and implementing those solutions in enterprises of any size and profile of activity, including:

The company employs experienced and highly qualified personnel with the authorization in the scope of: design, construction, industry-specific approvals, electrical, fully licensed, process and machinery, construction and civil etc.

PRODUCTS:

PKiMSA Carboautomatyka devices are manufactured in two plants: in Tychy (control and supervision systems for processes, flameproof supply equipment, equipment for measurement of mine's atmosphere, personal metering devices, blasting equipment, dispatcher safety systems, automation of minerals processing plants, balancing of manufacture and supervision of coal sales) and Mikołów (surface, mining, bullet belt conveyors, scraper conveyors, vibration screeners, - vibrating screens, construction structures, rollers).



COMPLETE CONSTRUCTION SERVICES – STARTING FROM AN IDEA TO CONCEPT, DESIGN, EXECUTION, ACCEPTANCE AND START-UP:

Complete execution of the Processing Plants:

- complete equipment resources,
- flocculant dosage stations,
- complete visualisation of processing plants,
- complete automation of process.

Smart buildings:

medium voltage main distribution boards, low voltage main switchboard, complete supply of the building, access control systems, fire protection systems, VA systems, public address system, CCTV, Ethernet, visualisation and control of all systems.

Traffic tunnels:

- execution of tunnel control centre with server room,
- execution and assembly of gantry structures for variable message signs
- assembly and control of signal lights,
- assembly and control of sound system,
- execution of CCTV system,
- integration of CCTV with city monitoring system,
- execution and equipment of technical bays
- execution of road switchboards.

Balancing of manufacture and supervision of coal sales:

- coal sales points,
- management of dumps,
- weighing systems (railroad scales, vehicle scales, belt conveyor flight scales, tank scales),
- equipment for automatic coal sampling.



INDUSTRIAL AUTOMATION SYSTEMS

- Control and visualisation systems of facilities belonging to Coal Preparation Plants (control rooms, server rooms, control systems of devices of the processing plant, switchgear monitoring systems, flocculant preparation stations, devices for automatic sampling).
- Control and visualisation systems of demethanisation and fan stations.
- Road tunnel control and visualisation systems.
- Building management systems (BMS)
- Systems for loading onto railway wagons and cars.
- Control and visualisation systems - water treatment plant.
- Service of control and visualisation systems.

DESIGN OFFICE

comprising a team of top quality specialists with building qualifications and extensive experience gained from the development of many projects and the implementation of various investments. We offer design documentation for complex construction, modernisation and extension as well as technical inspections of buildings.

Our Design Office provides design services for technological, machine, construction, electric, automation, installation and IT industries.

SUPPORT SERVICE

We provide our technical support **24 hours** a day, **7 days** a week, **365 days** a year, which is carried out by qualified technical staff with years of experience.



PROJECTS

Extension of ZPMW in LW BOGDANKA S.A.

The project concerning Development of the Coal Processing Plant LW Bogdanka to the capacity of **2400 tonnes** per hour is one of the biggest projects in Poland and even globally.



PROJECTS

Eco-pea coal production plant for TAURON Wydobycie S.A.

The modern development of four facilities in the area of approx. seven thousand square meters was constructed. Advanced processes of the production line and packing facility allow obtaining product ready for sales to bulk buyers and for individuals.

Lamella thickener METSO LTE 3000

The world's largest mechanical thickener was also developed in the Sobieski coal mine.



PROJECTS

Reconstruction of fine coal washer within the scope of enrichment of fine coals in ZPMW KWK Jankowice



PROJECTS

Construction of surface methane drainage station for KWK Brzeszcze



PROJECTS

Construction of Composite Fuels Plant Polski Koks

Implemented project expected execution of construction works in "design-build on turn-key basis contract". Solid fuel intended for municipal management and individual heating is a final product. Planned production volume for new fuel is **60 thousand** of tonnes per year. Fuel produced in new plant will substitute flotation concentration used, which was combusted in a conventional way and was a source of emission of many very hazardous pollutants.



PROJECTS

Construction of cogeneration fluidised bed units CFB EC ZOFIÓWKA



PROJECTS

International
Conference Center
(MCK) in Katowice

PKiMSA “Carboautomatyka” S.A. executed electrical installation works related to supply of the building, power distribution and separation, delivery and assembly of sub main switchboards, lighting systems. Transformer station MV/LV consisting of the following equipment was executed to cover the power demand for the International Conference Center building.

46 sub main switchboards supplying the equipment intended for correct operation of the facility are located in technical rooms of the building. In particular it includes.



PROJECTS

Equipment of the
SPODEK hall

Within the scope of the contract works we execute: works for sports and events hall “SPODEK” in Katowice designing and equipping the facility with modern fire signalling system, voice alarm system and first CCTV system in the Central-Eastern Europe based on unique solutions available on the market allowing observations of the images from cameras in 3D model in the real-time.



PROJECTS

Silesian Stadium

PKiMSA CARBOAUTOMATYKA executed the following works in the Silesian Stadium within the Consortium:

- completion of electrical works,
- completion of phone wiring system works,
- building Management System (BMS) with facility entrance system, Completion of works related to:
- emergency services communication system (police, fire service, medical rescue service) and TV transmission system.



PROJECTS

Tunnel under roundabout in Katowice and Laliki, equipment of the tunnel and G2 Gliwice section

Execution of works related to control, monitoring and security systems for traffic under the tunnel.



PROJECTS

Upgrading works of municipal waste water treatment plant in Tarnowskie Góry

We have executed comprehensive upgrade of the "Leśna" waste water treatment plant in Tarnowskie Góry. The upgrade allows achieving the effects in accordance with the requirements specified in the Regulation of the Minister of Environmental Protection of 18 November 2014, reaching the capacity of **Q_{dśr} = 1.147 m³/d**.

The scope of the upgrade included construction of facilities with process equipment: supply, control and visualisation.



PROJECTS

Reconstruction of the AKPiA and MSN system of the technological line of the Goczałkowice Water Treatment Plant





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