



DESIGN - ERECTION - MODERNISATION - EPC
GRUPA ZARMEN 



WITH TRADITION INTO MODERNITY

Ladies and Gentlemen,

We are honoured to present to you
REMAK-ENERGOMONTAŻ S.A.
Our company carries out projects for various
industry branches: power engineering,
chemical and petrochemical industries.

The core business of our company both
in Poland and abroad includes erection,
overhaul, and modernisation services of
turbines, steam and water boilers as well
as the erection of power engineering
equipment, flue gases denitrification
and desulphurisation systems, ESPs, industrial
systems, piping, and auxiliary equipment
and systems.

The potential and possibilities of functioning
in a large and strong ZARMEN GROUP allow
us to implement even the most
comprehensive projects: starting from design,
through production, and ending up with
on-site system erection and commissioning.

Management Board of
REMAK-ENERGOMONTAŻ S.A.

TRADITION – QUALITY – EXPERIENCE

HISTORY of REMAK - ENERGOMONTAŻ S.A.

REMAK S.A.

ENERGOMONTAŻ
ZACHÓD WROCŁAW SP. Z O.O.



1970

Establishment of a state-owned enterprise in order to provide overhaul and modernisation services and to erect power engineering equipment.

1969

Establishment of Przedsiębiorstwo Montażu Elektrowni i Urządzeń Przemysłowych „ENERGOMONTAŻ ZACHÓD” with its registered office in Wrocław.

1993

Listing REMAK S.A. on the Warsaw Stock Exchange.

2010

Purchase of ENERGOMONTAŻ-ZACHÓD WROCŁAW and the production plant in Żmigród by ZARMEN Sp. z o.o.

2014

Purchase of the controlling interest by ZARMEN Sp. z o.o.

2012

Acquisition of experienced and qualified personnel of ENERGOMONTAŻ-POŁUDNIE S.A. by ENERGOMONTAŻ ZACHÓD WROCŁAW Sp. z o.o.

2018

Purchase of an organised part of ENERGOMONTAŻ ZACHÓD WROCŁAW Sp. z o.o. by REMAK S.A.

2019

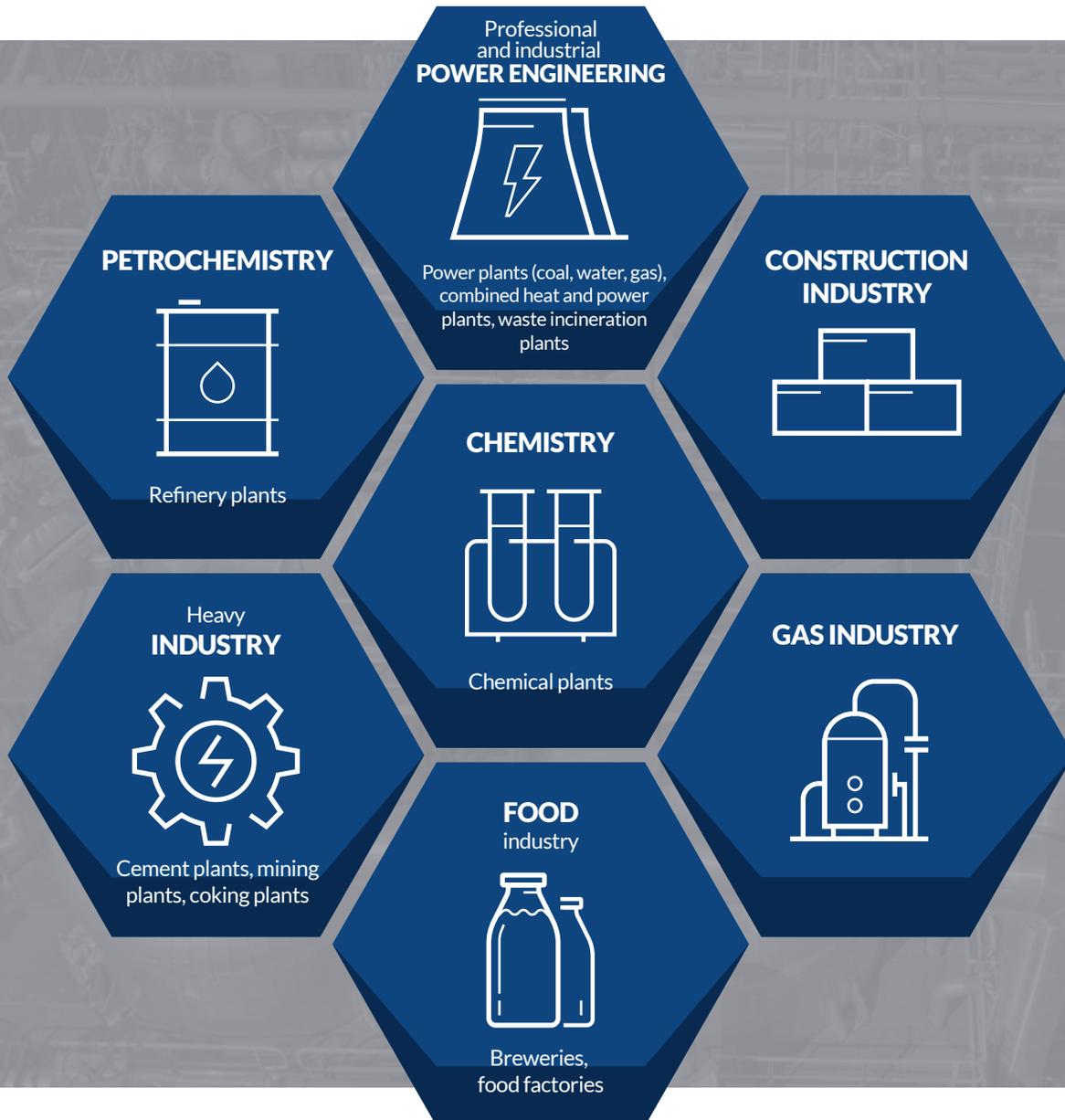
Change of name to REMAK-ENERGOMONTAŻ S.A.

OUR OFFER

FROM DESIGN, THROUGH PRODUCTION, TO ERECTION AND SERVICE



REMAK-ENERGOMONTAŽ S.A. successfully operates in strategic industrial sectors. The company specialises in the design, erection, diagnostics, modernization and repair of equipment and systems for professional and industrial power plants and combined heat and power plants. The services offered are carried out on its own. The company is fully responsible for managing complete projects. Thanks to the implementation of modern organisational solutions and high mobility, REMAK-ENERGOMONTAŽ S.A. is able to deal with tasks requiring a considerable concentration of manufacturing means and fast entry to the construction site.



The services provided by REMAK – ENERGMONTAŽ S.A. – also as a general contractor of investments – mainly include:

- steam and water boilers,
- steam and process piping,
- pressure and non-pressure vessels,
- flue gas treatment plants:
 - dedusting systems (ESPs, bag filters),
 - desulphurisation and denitrification systems,
- erection and overhauls of steam, water and gas turbines,
- erection, overhaul and modernisation of coal mills, dust piping and burners,
- modernisation and overhaul of chimneys, cooling towers, fan coolers,
- erection and overhaul of flue gases ducts,
- steel structures, class 1, 2, 3,
- steel bridge structures,
- comprehensive process lines.



Thanks to the cooperation with companies from the ZARMEN GROUP, we can also offer the prefabrication and deliveries of:

- pressure parts,
- large size tanks, siloses and bunkers,
- flue gases ducts and piping,
- double-shell steel chimneys,
- bag filters,
- equipment for power engineering and mining,
- construction of buildings, industrial halls and warehouses,
- bridge structures, trestle bridges and communication platforms,
- hoist tower structures, masts and chimneys,
- equipment acc. to individual design solutions.



GRUPA
ZARMEN

OUR ASSET IS OUR PERSONNEL

THE COMPANY EMPLOYS OVER 1.000 QUALIFIED EMPLOYEES ON VARIOUS POSITIONS

Taking into account the experience and reputation of Remak-Energomontaż S.A., we are able to quickly adapt the volume of our staff to the implementation of entrusted tasks using the synergy of the companies functioning within the ZARMEN GROUP.

Our mobility and management capability as well as the adjustment of the amount of human resources are confirmed by ongoing projects already implemented and those being carried out, often requiring the involvement of several hundred employees in one location in the country or abroad.

Therefore, as the only contractor of erection works, we can be proud of such a large portfolio of completed tasks in the construction of power units, including boilers for supercritical parameters, implemented on the broadly understood energy market in Poland and Europe.



EUROPE

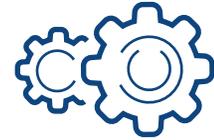


POLAND



WE BUILD WITH ENERGY FOR YOU

MANAGEMENT OFFICE - KATOWICE



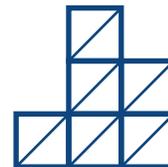
Katowice is the key centre of the Upper Silesian Industrial Region and the seat of the Katowice Special Economic Zone. The most developed industrial branches of Upper Silesia include mining, metallurgy, coke industry, power engineering, machine and chemical industries. It is no surprise, therefore, that Katowice is the headquarters of the Remak-Energomontaż S.A. management board. The greatest potential of the headquarters is the highly qualified and experienced engineering personnel.

In Katowice, specialist company departments are located:



Our company also consists of field branches: Kędzierzyn-Koźle Branch, Płock Branch, Gdańsk Branch, Łaziska-Górne Technical Facility with Welder Training and Testing Centre.

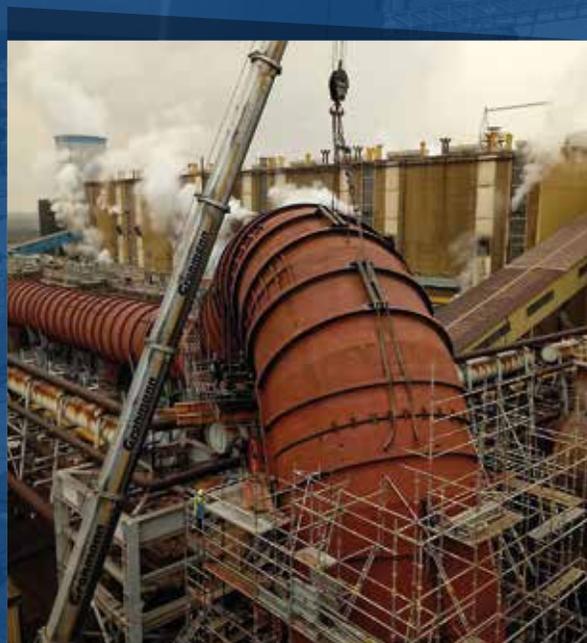
CONSTRUCTION DEPARTMENT



The Construction Department comprehensively carries out unusual investment tasks, which require the development of projects or implementation of innovative solutions as the main contractor or consortia. The knowledge acquired over the years of REMAK-Energomontaž S.A. operation and experienced management and engineering staff of the Construction Department allow us to provide highest-quality services and to meet ever-growing requirements resulting from the use of the latest technologies.

The Construction Department also implements projects as a general contractor for the following scope of works:

- flue gas treatment plants, absorbers,
- repair to and modernisation of ESPs and bag filters,
- repair to and modernisation of all types of ducts,
- construction of multi-shell tanks for various purposes,
- erection of technical and building structures,
- construction of steel chimneys using protective coatings,
- construction works,
- other investments requiring individual solutions.





BOILER DEPARTMENT

The Boiler Department specialises in works related to the construction, modernization and regeneration of innovative power boilers as a general contractor of investments and in the form of turnkey projects. Qualified personnel are what constitutes the strength and potential of the department in terms of works performed on boilers and auxiliary equipment. The knowledge of the staff is based on many years of experience gained directly on construction sites. The executive team is an important asset of the Department.

Our competences have been confirmed during the implementation of projects in the power engineering, petrochemical, chemical and industrial sectors.

The Boiler Department carries out investments related to:

- erection of and repair to steam boilers incl. supercritical parameter boilers, steam and water boilers,
- overhaul and routine inspections of boilers and auxiliary equipment,
- modernisation incl. design works, supply of elements, equipment and on-site erection,
- maintenance and service of boilers, equipment and boiler systems,
- start-ups of modernised facilities,
- performance of individual and custom tasks resulting from changes in EU legislation,
- technical advice in terms of capabilities and profitability of introducing new solutions.



Here are the examples of projects for the construction of the largest power units, in which the Boiler Department of our company was involved:

- **Poland:**
 - Jaworzno 910 MW, Turów 450MW, Kozienice 1075MW, Włocławek 463MW, Gorzów Wielkopolski 138 MW, Bełchatów 858MW, Łagisza 413MW, Opole 2x 900MW.
- **Abroad:**
 - Germany: Neurath 2x1100MW, Mannheim 911 MW, Karlsruhe 919 MW, Westfalen-Hamm 2x800MW, Datteln IV 1100MW.
 - Holland: Maasvlakte 1080MW, Eemshaven 2x800MW.
 - Slovenia : Šoštanj 600MW.





PIPING DEPARTMENT

The Piping Department specialises in providing comprehensive services related to the erection, overhaul, service and modernisation of piping and fittings. The Department carries out orders in existing facilities as well as during the construction of new power engineering units and industrial and chemical systems.

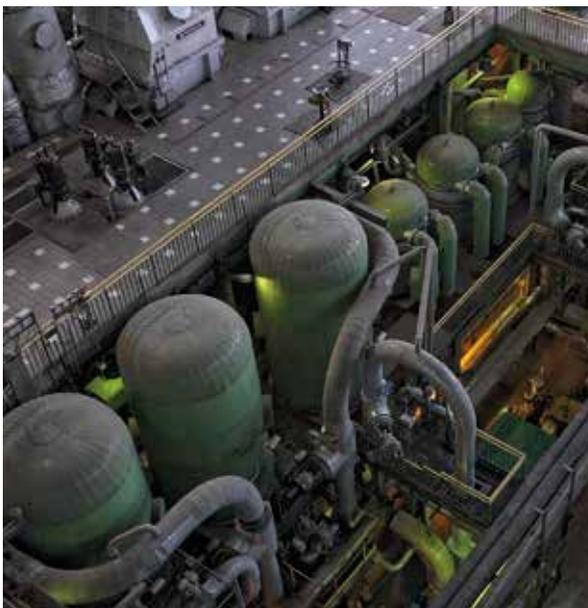
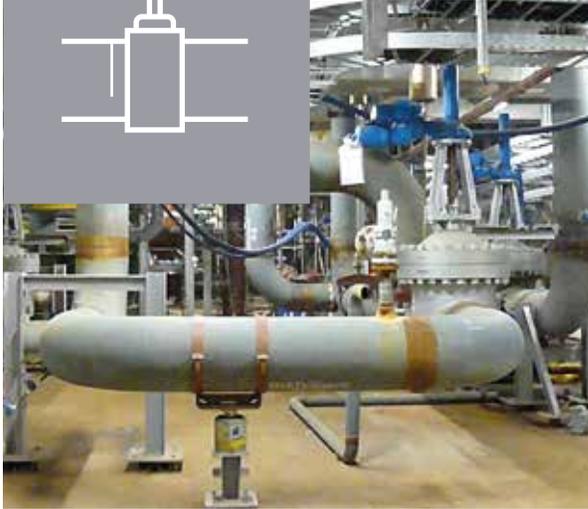
Due to a qualified and experienced team of fitters and welders, our Department performs activities such as the erection of piping, water, steam, oil fittings, aggressive media and other fittings using comprehensive welding technologies both in Poland and abroad.

The Piping Department offers:

- erection of piping and piping systems,
- overhaul and inspections of piping and auxiliary equipment,
- modernisation involving design works, delivery of elements, equipment and erection on site,
- erection, service and overhaul of high-, medium-, and low- pressure fittings,
- pressure tests for completed systems,
- comprehensive erection of skids, structures, equipment and piping.

The Department also specialises in:

- construction of systems made of austenitic stainless steel, maintaining all installation regimes,
- welding and installation of high-parameter alloy steel designed to operate at high temperatures and in aggressive environments together with heat treatment.



TURBOMACHINERY DEPARTMENT

For many years, the Turbomachinery Department has been providing its services both in Poland and abroad.

Its structure consists of the following subdepartments:

- turbines,
- pumps and fans,
- fittings,
- production preparation.

Thanks to many years of experience and knowledge, the Turbomachinery Department performs works involving the erection and overhaul of:

- Turbines:
 - steam turbines,
 - gas turbines,
 - water turbines.
- Compressors:
 - radial compressors,
 - axial compressors,
 - screw compressors.
- Fans and blowers:
 - radial,
 - axial.
- Centrifugal pumps:
 - single-stage,
 - multi-stage.
- Suction units and centrifuges.

The Department specializes in diagnostics, which includes:

- absolute vibration measurements,
- relative vibration measurements,
- dynamic state assessment,
- dynamic state analysis,
- balancing of the rotors in their own bearings.



Our wide offer also covers:

- overhaul of fittings,
- workshop services – machining,
- engineering services covering:
 - expert opinions on the technical condition of rotating machines,
 - technical consultancy,
 - diagnostics of machinery.

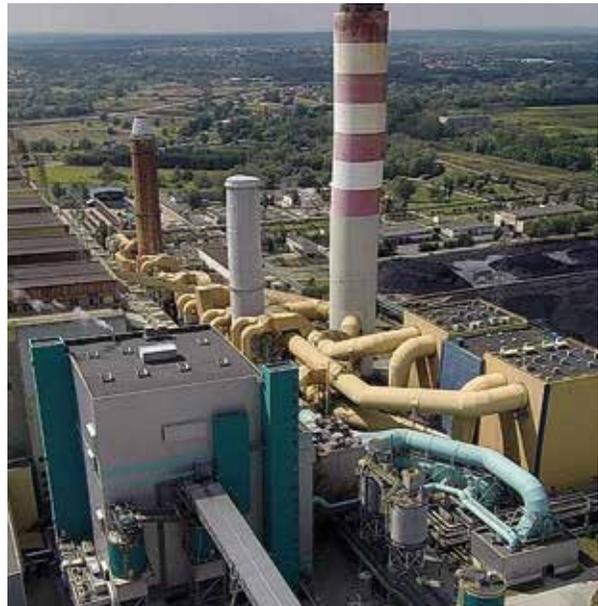
DESIGN-BUILD

The long experience in the power engineering sector means that REMAK – ENERGOMONTAŻ S.A. is able to build and overhaul all facilities in a power generating unit, starting from the turbine, through the boiler, ESPs, denitrification system, desulphurisation system and ending up with the chimney.

The offer of the company as a general contractor is far beyond industrial or professional power engineering and is dedicated to the entire industry branch. An experienced team of engineers, proper project management as well as a very wide support of specialised companies belonging to the ZARMEN GROUP allow us to comprehensively implement practically each order.

Selected projects as a general contractor:

- ✔ Construction of a heat source for the Ostrołęka Power Plant B through the supply of heat for 3 x 220 MW turbines incl. exchangers, modernisation of turbines, steam and water piping, battery installation, incl. design, deliveries and I&C.
- ✔ Comprehensive design and construction of a heat plant with a rated power of 25 MWt 100% fired with eco fuel – biomass for MPEC Sp. z o.o. in Olsztyn.
- ✔ Construction of a power generation unit with an installed net power of ca. 30 MWe fired with coke oven gas (2 steam boilers) in the Częstochowa Nowa Sp. z o.o. Coke Plant in Częstochowa.
- ✔ Design and modernisation of the EC-2 Polkowice Heat Plant in order to increase the installed gross power up to 182 MWt and modernisation of the flue gas system installation in order to adapt it to BAT conclusions incl. boiler delivery (WR 40).
- ✔ Turnkey provision of dedusting systems for units no. 5 and 6 (1,000 MW each) in the Opole Power Plant.
- ✔ Design and modernisation of absorbers C and D of the desulphurisation system for the ENEA Połaniec S.A. Power Plant.
- ✔ Comprehensive design, delivery of devices and equipment as well as the modernisation of the flue gas treatment system (IOS 7, 8) for PGE GIEK S.A. Dolna Odra Power Plant Complex.
- ✔ Adaptation of the boiler type PTWM100 (K2, K3 and K4) fired with fuel oil for Ekoterm light oil combustion to meet the 2016 requirements of the Industrial Emissions Directive concerning concentration of SO₂, NO_x for the Wola Heat Plant – PGNiG Termika.
- ✔ Adaptaion of the boiler type PTWM100 (K2, K3 and K4) fired with fuel oil for Ekoterm light oil combustion to meet the 2016 requirements of the Industrial Emissions Directive concerning concentration of SO₂, NO_x for the Wola Heat Plant – PGNiG Termika.
- ✔ Modernisation of 2 water boilers incl. the flue gas desulphurisation system in the Siekierki Heat Plant for PGNiG Termika.
- ✔ Comprehensive modernisation of the boiler OFz450A in the CHP Żerań in Warsaw for PGNiG Termika. The Project included deliveries, erection and adaptation works in all branches necessary to provide complete plant functionality.
- ✔ General contractor – within the mechanical scope – of an innovative system for the production of monochloroacetic acid. The scope included siloses (30 pcs.), exchangers (29 pcs.), columns (9 pcs.), fans (5 pcs.), pumps (68 pcs.), injectors (13 pcs.), hydrogen compressor, skids (5 pcs.) – 700 t in total – for PCC MCAA Sp. z o.o.
- ✔ Modernisation of the NO_x system in the Łaziska Power Plant for 4 boilers, 220 MW each.
- ✔ Complete erection of a new system for power and heat generation in the Częstochowa Nowa Coke Plant (KCN) based on a combustion engine fired with coke oven gas with a capacity of 3.2 MWe.
- ✔ Modernisation of oil and fuel pumping station for Salt Mine in Inowrocław „Solino” S.A. incl. mainly modernisation of brine, oil, fuels technological installation, incl. reconstruction of fuel pumping stations, modernization of control and automation systems.



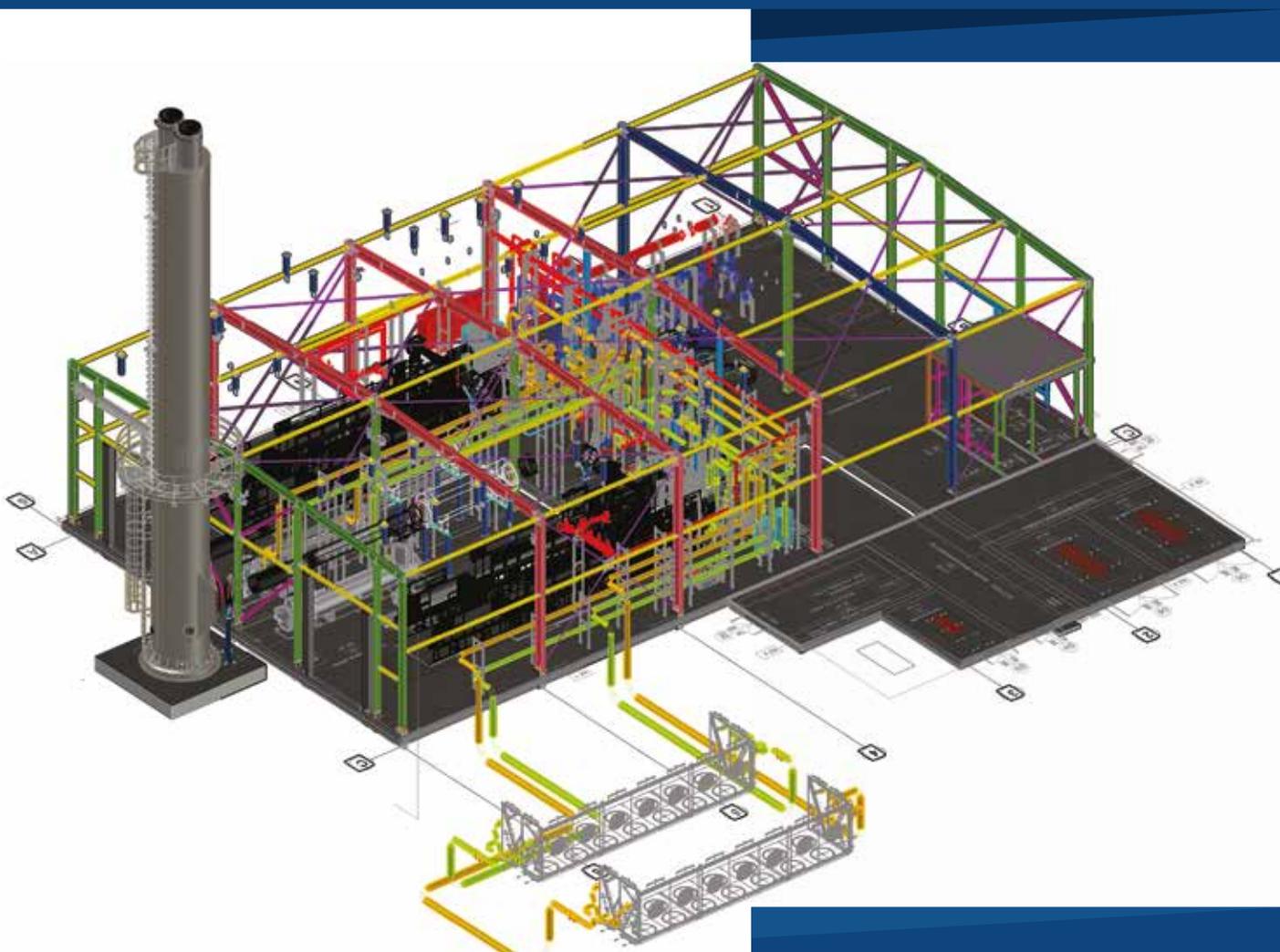
COGENERATION DEPARTMENT



In order to meet the changing requirements within energy production and growing market needs, REMAK- ENERGMONTAŽ S.A. established the Cogeneration Department.

Formed on current experience in broadly understood power industry and constantly developed competences, our company, as a general contractor, offers comprehensive implementation of tasks related to the construction of high - efficiency cogeneration sources based on gas engines of leading world producers. In addition, the company offers the construction of complex multi-generation systems combining gas cogeneration with other sources and types of fuels and renewable energy, such as biomass, geothermal energy or heat pumps, biogas and biomethane plants.

REMAK-ENERGMONTAŽ S.A. is contractor of the investment entitled: "Construction of high-efficiency cogeneration source with necessary technical infrastructure in Szczecin" for the NEW COGEN company. The project involves as EPC construction of a natural gas-fired heat power plant with a capacity of 20 MW in fuel for district heating system of Szczecin city.





GAS DEPARTMENT

The company REMAK- ENERGOMONTAŻ S.A. expands its activities in the gas sector on the Polish market. The company has qualified erection and welding personnel with many years of experience gained during the performance of projects in Poland and abroad.

The scope of works of Gas Department include construction, repairs and modernisation of:

1. transmission gas pipelines,
2. reduction and measurement stations and measurement stations,
3. shutt-off bleed units,
4. outgoing- receiving sluices of the piston.

The company has obtained all approvals of welding technologies for medium- thickness gas pipelines for material types required on the market. It also owns all required technologies in gas industry.

The company has realized i.e. development project of gas compressor station in Odolanów, which constitutes strategic inland investment in order to guarantee energy security of Poland.

We own welding technologies for technological objects, as pumping stations or blocking and bleeding systems. The range includes welding of pipes DN > 500 mm with conformity of GAZ SYSTEM instruction with marking PE-DY-126 and DN < 500 in acc. to the instruction PE-DY-102 of GAZ SYSTEM (general requirements). Welding methods implemented in qualification: STT/136 – automated, STT/136 – manual, STT/111 incl. also repairs approved by Technical Inspection Authority (UDT).

The company owns technology qualifications in acc. to the instruction PE-DY-126 for transmission gas pipeline for DN 700 with internal pneumatic centering. Welding methods implemented in qualification: STT/136 – automated, STT/136 – manual, STT/111, 141/111 for repairs of connections.



TECHNICAL OFFICE DORTMUND



REMAK-ENERGOMONTAŽ S.A. has its own technical office in Dortmund. As a result, the company can professionally implement projects for even the most demanding foreign customers, with particular emphasis on the local German market.

It also makes it possible to maintain equipment resources in Germany on a continuous basis. A very convenient office location – 10 minutes away from the Dortmund Airport and in the vicinity of A1 and A44 motorways – makes it possible to keep in touch with customers frequently and directly.



REMAK - ENERGOMONTAŽ S.A.
Betriebsstätte Dortmund
Europaplatz 7 street
44269 Dortmund

DORTMUND





EXPORT DEPARTMENT

REMAK-ENERGOMONTAŻ S.A. has extensive experience in implementing projects not only in Poland but also abroad. Thanks to our professional employees, the company can perform virtually any task for the industry, especially in the power engineering and heating sector, but also within the chemical, petrochemical, refinery and coke industries.

The company successfully modernizes and erects all kinds of boilers, starting from small- and medium-sized boilers up to the biggest supercritical boilers in the world, incl.:

- coal boilers,
- biomass boilers,
- gas boilers,
- HRSG boilers,
- waste incineration boilers.

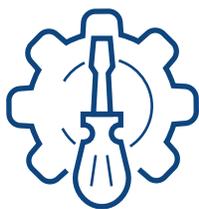
Over the last 6 decades, the company has been and is present in the largest investment

implementations for the broadly-understood industry in Western and Central Europe, Scandinavia. The company also carried out projects in Israel.

The scope of our services on abroad markets also includes works associated with:

- turbines,
- machines,
- piping,
- environment protection systems,
- process lines for the industry.





ABROAD PROJECTS DATTELN IV

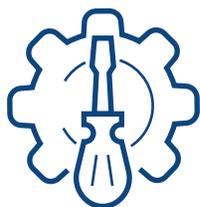
One of the biggest investments carried out in recent years by REMAK-ENERGOMONTAŽ S.A. in Germany is the DATTELN IV PROJECT.

REMAK-ENERGOMONTAŽ S.A. replaced a coal boiler with supercritical parameters on the new power generating unit with a capacity of 1100 MWe in Datteln IV Power Plant. The works were performed for Mitsubishi Hitachi Power Systems and UNIPER as the end customer.

The scope of works included the disassembly of the boiler (7 CrMo) and the erection of a new one with membrane walls made of 13 CrMo. The project was implemented in 2018-2019. Datteln IV is the last coal-based supercritical power generation unit built in Germany.

The Datteln contract was completed 3 months prior to the scheduled date, confirming professionalism and engagement of REMAK-ENERGOMONTAŽ S.A.





ABROAD PROJECTS VW WOLFSBURG

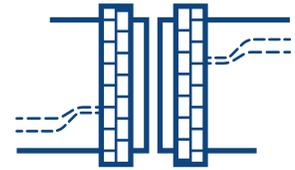
**The next important task realised by the company
REMAK-ENERGOMONTAŽ S.A. in Germany was the
project „VW Wolfsburg”.**

The company performed in 2021 and 2022 the erection of piping with weight over 900 t on a new constructed Steam-Gas Unit with power of 288 MWel in production plants of Volkswagen in Wolfsburg for order of Mitsubishi Power Europe.

The scope of works of REMAK-ENERGOMONTAŽ S.A. incl. erection of 33 piping systems on two technological lines of Heat Plant.



HEAT TREATMENT DEPARTMENT



To meet the growing demand on the market for services related to heat treatment, REMAK-ENERGOMONTAŻ S.A. offers its own resources, know-how and experience to customers from power generation, petrochemistry, construction sectors and others. The Heat Treatment Department supports the construction sector both in Poland and abroad, while its highly qualified team includes 24 employees with considerable experience and having qualifications to perform the heat treatment process.

The Department offers heating, heat treatment and the following services:

- comprehensive provision of heat treatment for welded elements in industrial facilities,
- heating for welding,
- leasing of qualified personnel for the performance of heat treatment,
- inspection of and repair to heaters (we can travel to the customer),
- regeneration of heating mats,
- calibration of heater recorder (annealing machine).

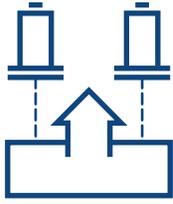
In addition, the Department's offer includes leasing of equipment for heating and heat treatment purposes:

- resistance heaters: 10.5kW, 40kW, 70kW, 135kW,
- recorders.

The Heat Treatment Department also has:

- resistance heaters - 28 mobile devices (1, 6, 12 and 24 channels) with a power of 10.5kW, 40kW, 70kW and 135kW,
- stationary furnaces for heat treatment fired with natural gas – 6 pcs.





DEPARTMENT OF HYDRAULIC VERTICAL LIFTING SYSTEMS AND TRANSPORT

REMAK-ENERGOMONTAŻ S.A. has been involved in the performance of large industrial contracts. The company is the only one in Poland to have completely mastered the technology of hydraulic cylinders for the erection of the pressure part of boilers with supercritical parameters.

All processes are designed, analysed and supervised by our engineers, designers and assembly specialists.

We offer professional project preparation and complete supervision of its implementation regarding lifting parts with actuators. We offer 72 specialised hydraulic cylinders.



DEPARTMENT FOR SYSTEM COMMISSIONING AND WARRANTY HANDLING

The Department for System Commissioning and Warranty Handling carries out broadly-understood works related to the commissioning and optimisation of industrial systems. Our competences primarily include:

- development of an individual commissioning project as well as complete commissioning documentation including operating instructions,
- coordination of cooperation between the investor and contractors,
- acceptances upon erection of systems in all industries,
- the so-called “cold start-up” – functional tests confirming the proper operation of process systems conducted prior to the introduction of process fluids and performed without load,
- the so-called “hot start-up” or regulation start-up – tests performed after the “cold start-up” that involve the use of process fluids and are performed under load,
- cooperation with design offices during the development of technical or process solutions that enable optimal high efficiency and capacity to be reached,
- optimisation of operation of individual equipment and the entire system,
- performance of a test run confirming the readiness of the system for continuous operation,
- engineering support during the warranty period and post-warranty service.





In 2019, the Commissioning Group of REMAK-ENERGOMONTAŻ S.A. successfully completed the commissioning of a new eco thermal system with a power of 25 MWt fired with wood chips for MPEC Olsztyn. The system mainly includes:

- water boiler with a nominal power of 25 MWt and with an overhead grate,
- system of heat recovery from flue gases with a nominal power of 4 MWt together with a condensate treatment system,
- storage and fuel handling system based on movable floors and belt conveyors,
- dedusting system with bag filters.

In addition, the Commissioning Group has conducted works connected with the commissioning, regulation and operation optimisation of:

- new grate boiler type WR-40 fired with coal – Polkowice HP,
- new flue gas desulphurisation system based on semi-dry technology incl. auxiliary systems – Polkowice HP,
- new flue gas denitrification system based on SNCR technology together with a system for unloading and storage of the reagent – Polkowice HP,
- new power generating duo block with a capacity of 29.5 MWe located in the Częstochowa Nowa Coke Plant fired with coke oven gas.



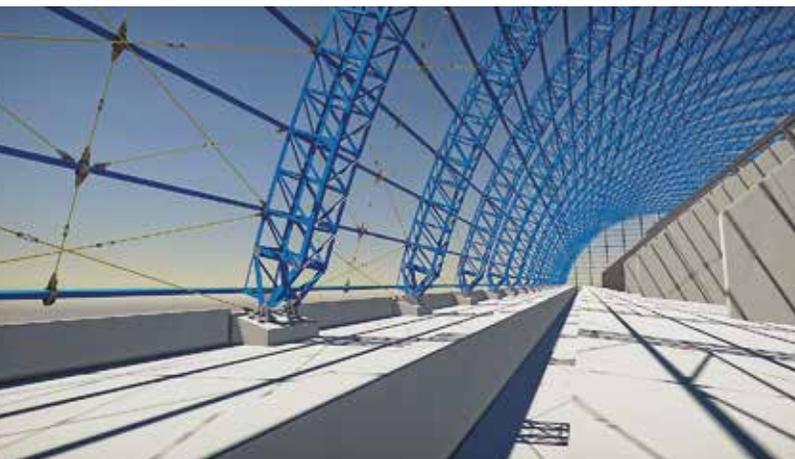
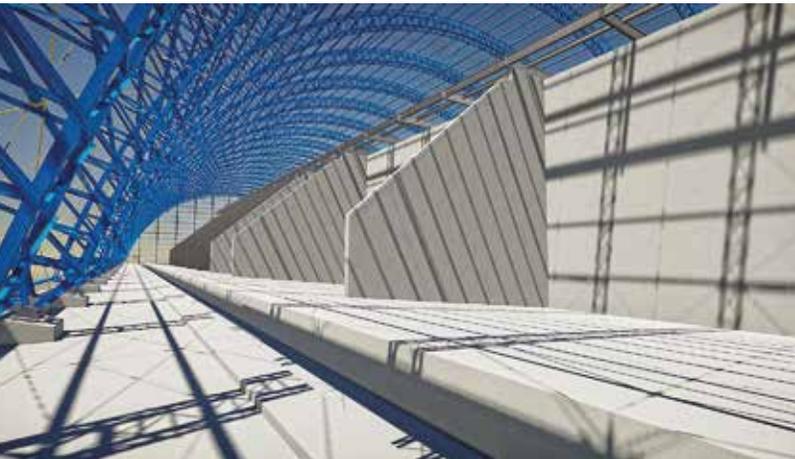
EVERYTHING STARTS WITH A PROJECT

The Design Office specialises and develops technological support for tasks carried out by the company.

We work under the BIM standard (Building Information Modelling). We use the following software: Bocad 3D, Tekla Structures, Robot Structural Analysis Professional, RFEM, IdeaStatica as well as Cadsis, AutoCAD and SolidWorks from the CAD software family.

We are among a few in Poland to develop technologies for erection using advanced hydraulic systems for vertical and horizontal transport.

We have created prototype systems (technologies) implemented in the power generation industry.



Coal storage project performed in 2021

Our Department designs mainly:

- auxiliary structures systems for boiler erection (also for ones with supercritical parameters),
- chimneys,
- ducts: flue gases, air, process ducts,
- support structures,
- auxiliary structure systems for transport,
- hydraulic construction systems, platforms, sliding formwork,
- process installations (furnaces, stripper columns, scrubbers, cyclones, filters, reactors),
- boiler rooms, machine rooms, process and social buildings,
- siloses, bunkers, concrete reinforced siloses,
- support structures, casings and electrode systems for ESPs,
- industrial halls, trestle bridges.



PŁOCK DEPARTMENT

The main task of the Company's branch located in Płock is to provide high-quality services in terms of design, erection and servicing offered by Remak-Energomontaż S.A. to customers in Central and Northern Poland.

The facility specialises in the erection, comprehensive servicing and diagnostics of machines, equipment, systems and process lines for the petrochemical and refinery industries.



A wide range of services also covers:

- erection, overhaul and modernisation of systems for the petrochemical industry,
- servicing of power generating equipment: steam and water boilers, industrial furnaces and turbosets,
- performance of tasks as a general contractor in the chemical industry,
- maintenance, routine inspections, diagnostics, overhauls and modernisation of auxiliary equipment,
- erection of process lines and industrial systems,
- construction and modernisation of water and waste water treatment plants,
- construction of and repairs to storage tanks for fuels and other petroleum products,
- servicing and regeneration of industrial fittings,
- overhauls of fittings.

In addition, the branch's offer includes erection works and servicing of equipment such as:

- heat exchangers,
- reference columns,
- air coolers,
- process boilers,
- storage tanks for petroleum,
- reactors,
- pumps,
- piping, oil and gas pipelines.

KĘDZIERZYN-KOŹLE DEPARTMENT



EVEN CLOSER TO THE CLIENT

In order to meet the highest demands of investors from the chemical and power generation sectors, REMAK-ENERGOMONTAŻ S.A. launched its branch in Kędzierzyn-Koźle. It mainly includes a prefabrication and servicing plant and required equipment resources. Due to the location of the branch, we can quickly react to local customers' demands regarding erection, modernisation, repair and servicing works. In addition, our branch independently performs entrusted tasks and supports projects carried out by REMAK-ENERGOMONTAŻ S.A. and companies belonging to the ZARMEN GROUP.

The Kędzierzyn-Koźle Department offers services within the scope of:

- complete facilities or process lines for departments of chemical plants:
 - ammonia, hydrogen, artificial fertilisers, oxoplasts, alcohols, plasticisers, aldehydes, chemicals,
- boilers, i.e.: OP - 100, OP - 120, OP - 140, BP-1150:
 - overhaul and erection of pressure parts including membrane pipes,
 - diagnostics of drums,
 - overhaul of draft and exhaust fans, flue gas ducts,
 - repair to combustion chamber refractories,
- ESPs involving the mechanical replacement of internal equipment, i.e. corona and collecting electrodes incl. the rapping system,
- bucket elevators,
- screw conveyors,
- overhaul/erection of pressure parts - exchangers in chemical plants,
- overhaul/erection of autoclaves,
- gas exchangers,
- turbines,
- pumps.

The Kędzierzyn-Koźle Branch is successful in performing entrusted orders for the coke industry. In particular, it specialises in the erection and overhaul of coke production systems including coke batteries and carbon-related products.





REMAK- ENERGOMONTAŻ S.A in its strategy extended the scope of activity to the area of renewable energy - hydropower.

The experience of branch employees in Gdańsk will allow to extend the scope of works performed by the Company offering, inter alia, "turnkey" services, which include the supply of equipment, erection and commissioning of hydropower plants.

The offer of this division also includes inspections of hydropower plants with expert assessment of devices condition with varying degrees of details.

Considering the high technical potential and experience in conducting of field works, the branch offers disassembly and assembly works of water turbines in Poland and abroad.



NON-DESTRUCTIVE AND DESTRUCTIVE TESTING LABORATORY



The Laboratory has the highest quality research equipment from leading manufacturers, which is regularly modernised and supplemented with the latest machines. All testing equipment and control and measurement instruments are calibrated acc. to the equipment used by PCA-accredited laboratories. Our team has long employment history and experience gained during the performance of contracts in industrial and power generation plants, carried out both in Poland and abroad.

The Non-Destructive Testing Laboratory renders its services at the highest level acc. to valid standards and strictly respecting requirements of the PN-EN ISO/IEC 17025 standard.

Non-destructive tests are performed by personnel certified acc. to:

- PN-EN ISO 9712:12 by UDT-CERT,
- Welding Institute,
- TÜV SÜD Industrie Service GmbH, level II and III.

The Testing Laboratory is approved by the Office of Technical Inspection UDT – LBU285/9-15 acc. to PN-EN ISO/IEC 17025. Approved testing methods include:

- Ultrasonic methods (UT) – defectoscopes and thickness measurements,
- visual tests (VT),
- penetration tests (PT),
- magnetic particle inspections (MT),
- hardness measurements by dynamic method (HT),
- leak detection tests with underpressure method,
- determination of chemical composition by X-ray spectrometry.

The Laboratory is also qualified and certified to perform the following tests:

- X-ray tests (RT),
- destructive tests for metallurgical products and welded joints,
 - static tensile tests
 - impact tests,
 - static bending tests,
 - hardness tests,
 - break tests,
 - macroscopic testing,
 - microscopic tests with optical microscopes.



TECHNICAL FACILITY



The Technical Facility is located on a plot with a surface of 3 ha in Łaziska Górne on the premises of the Łaziska Power Plant. It consists of two workshops with a total surface of 700 m², a new office building and a warehouse with highly specialised equipment and tools necessary to perform erection and overhaul orders as well as provide repair and modernisation services.

Moreover, to maintain the highest quality of rendered services, regular inspections, repairs and modernisation of equipment and tools are performed at the facility, as well as training and verification of skills of employed workers.

The Technical Facility has machines and equipment as well as additional workshops adapted to the demands of implemented projects.

Welder Training and Testing Centre

The Technical Facility has a professional and modern welding room, which includes six completely equipped welding booths with welding exhaust fans and welding gas supply units.

Our facility enables safe and controlled conditions for welding technology accreditation in acc. with the PN-EN ISO 15614-1 standard, certification of welders acc. to the PN-EN ISO 9606-1 standard. This also allows us also to conduct training and testing of welders' skills prior the commencement of contract performance.

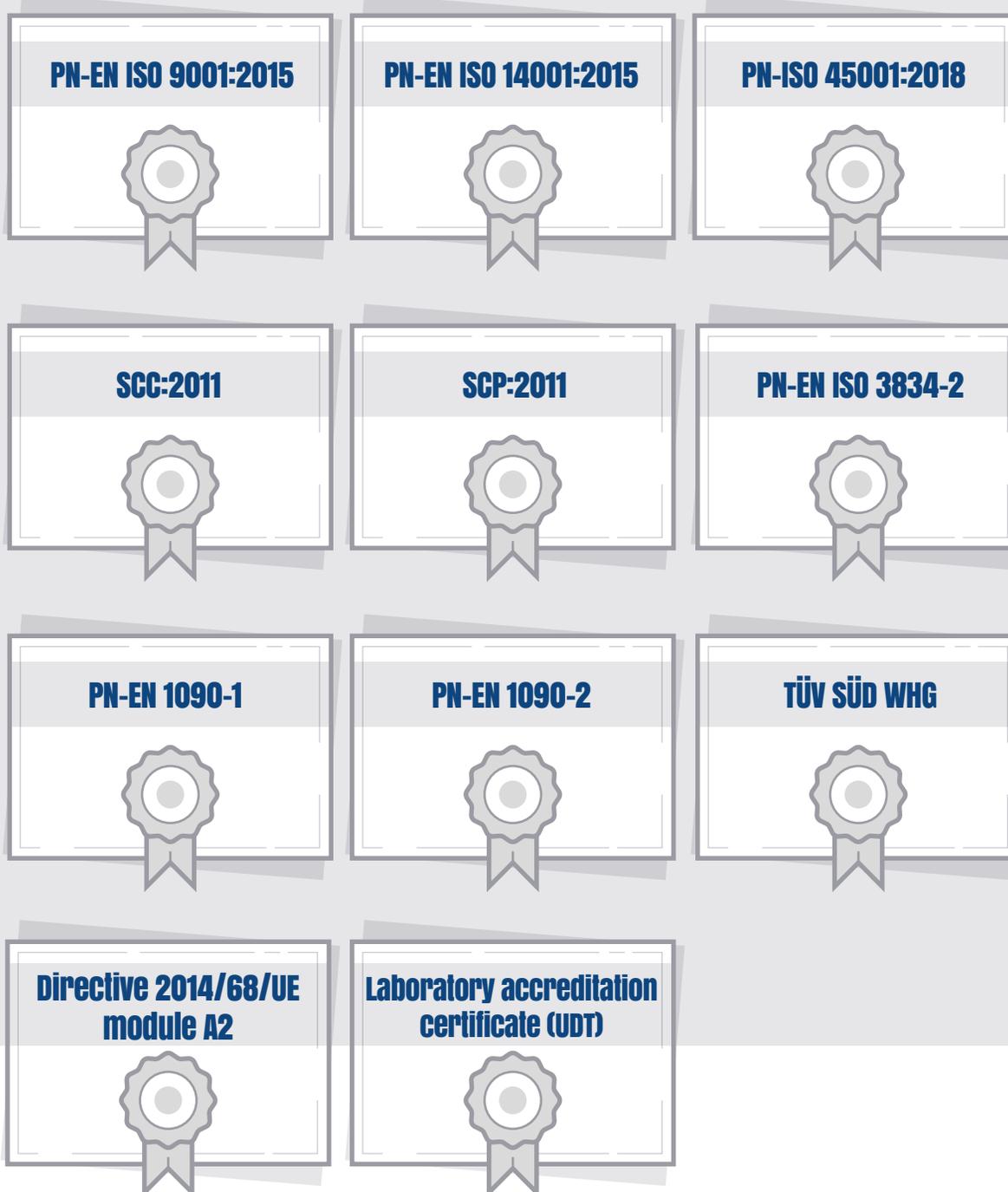
The welding room has its own storage for welding pieces and additional materials for welding as well as equipment necessary for the process itself.



CERTIFICATES



The company hold numerous licences and certificates acc. to recognised Polish and international standards:





ENVIRONMENTAL PROTECTION IS THE KEY

REMAK-ENERGOMONTAŽ S.A. declares that – with concern for the environment in mind – it makes every effort to carry out tasks in a way that limits the negative aspects of environmental impact. To this end, the company has implemented the ISO 14001 Environmental Management System standard.

Care for the environment as well as monitoring environmental aspects are indispensable elements serving to protect the nature against harmful effects.

The identification of environmental aspects includes the following elements - both significant and non-significant - which include:

- organised and unorganised emission to the atmosphere,
- electricity consumption,
- consumption of natural resources as a result of the Company's operations,
- sewage emissions,
- waste generation,
- potential environmental pollution due to emergencies.

The company is constantly improving the Integrated Management System, including the Environmental Management System, which is expected to limit an overall impact on the environment.

Activities aimed at eliminating environmental threats include:

- using the latest technologies such as the implementation of Environmental Protection Systems (desulphurisation, dedusting, denitrification, etc.),
- using specialised and modern infrastructure correlated with IT systems,
- proper management of post-industrial areas,
- waste segregation

and a number of activities that improve environmental conditions.



ZARMEN GROUP

THE POWER OF SYNERGY



GRUPA **ZARMEN**

The ZARMEN GROUP is a market leader in the comprehensive implementation of industrial investments in the region and brings together 9 companies. The strength of the Group lies in the diverse scope of operations of the Group companies, and thus in diversified market segments served by individual companies.

The activity of the Group focuses on entities operating in the following sectors: power generation, coking, chemistry, refinery, steel production, metallurgy, mining, cement-lime, railway, shipbuilding and casting.

Undoubted advantages of the Group are: highly qualified personnel, extensive production and performance resources, know-how, enabling the Group to perform comprehensive industrial investment projects in the "turnkey" formula, which includes design and practical implementation.

The ZARMEN GROUP and cooperating entities include the following companies:

- ZARMEN Sp. z o.o.
- Koksownia Częstochowa Nowa Sp. z o.o.
- REMAK-ENERGOMONTAŻ S.A.
- ZARMEN FPA Sp. z o.o.
- KOFAMA Koźle S.A.
- ELEKTROBUDOWA Sp. z o.o.
- HOLDUCT Sp. z o.o.
- HPH-Hutmaszprojekt Sp. z o.o.
- ZARMEN GPP Sp. z o.o.



Więcej informacji na
www.grupa-zarmen.pl

ZARMEN



Holduct

NOWA
KOKSOWNIA CZĘSTOCHOWA

ZARMEN FPA

hph



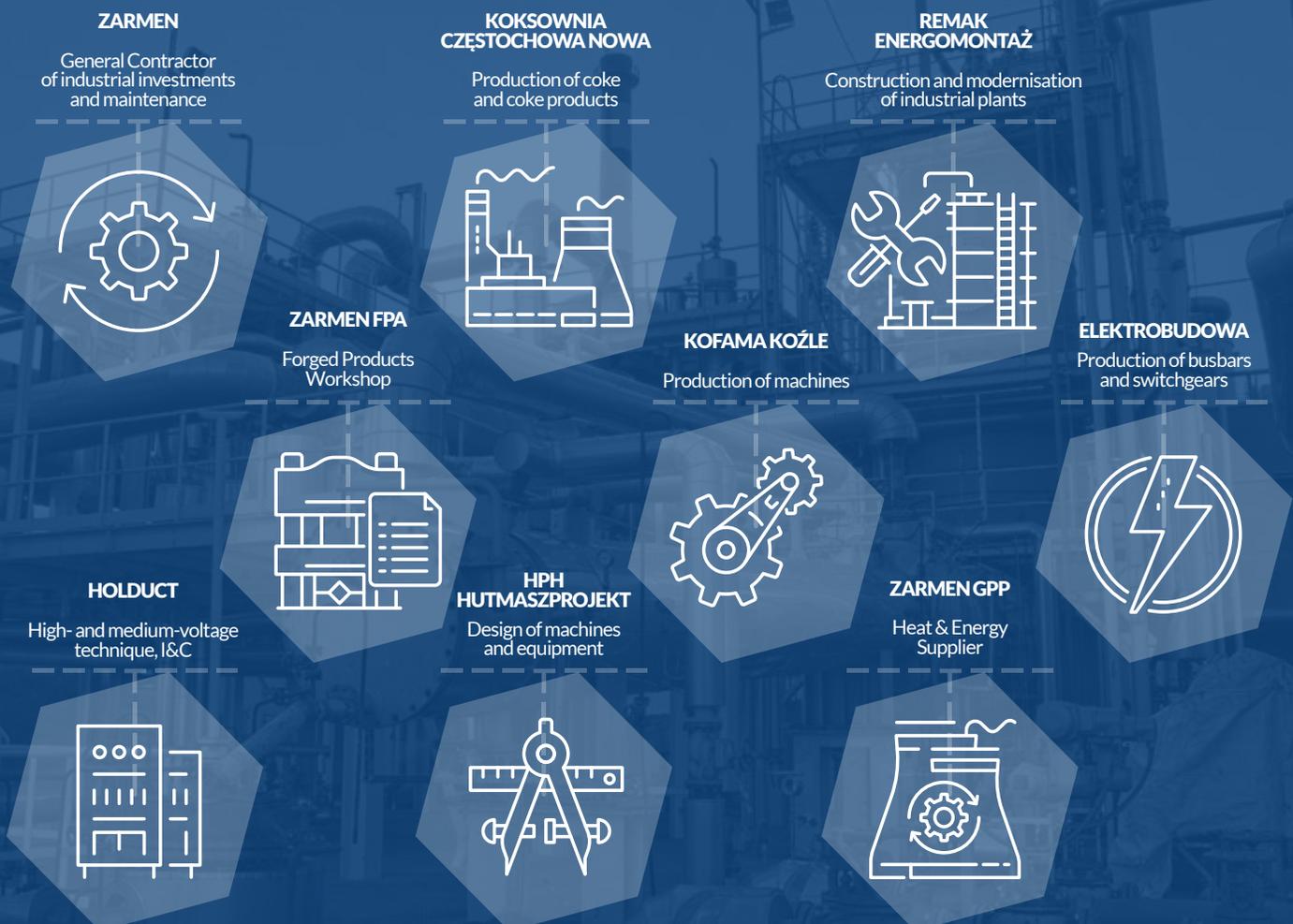
ZARMEN GPP

COMPREHENSIVE OFFER

Thanks to functioning in a strong group of companies, the potential and capabilities of the companies belonging to the ZARMEN GROUP allow for a comprehensive adaptation of the offer to the customers' needs and expectations.

Through the diversity of the products, specialised services and qualified teams in all industries – starting from design, through prefabrication and erection, and ending up with commissioning – we provide services to the majority of industry segments in Poland. Due to the continuous maintenance service upon the completion of the entire project, we guarantee investors a sense of real security and stable system operation.

The group's motto is a strong orientation on the client. We meet investor's expectations while ensuring high quality of manufactured products and services.



CONTACT AND LOCATION



Registration data



ul. Chłodna 51
00-867 Warszawa



NIP: 7540013369
REGON: 530916125
KRS: 0000021123

Management Office



ul. Żelazna 9, 40-851 Katowice



+48 32 783 53 60



remak@remak.com.pl





Płock Department

ul. Zglenickiego 44c
09-411 Płock



Gdańsk Department

ul. Abrahama 1A
Gdańsk 80-307



Kędzierzyn - Koźle Department

ul. Mostowa 30a (budynek 686)
47-223 Kędzierzyn-Koźle



Dortmund Office

BETRIEBSTÄTTE DORTMUND
Europaplatz 7, 42269 Dortmund



Technical Facility

ul. Wyzwolenia 30
Łaziska Górne 43-170

Visit us at: www.remak.com.pl



REMAK-ENERGOMONTAŻ S.A.

More information at: www.remak.com.pl

design by  **intebuco** / design@intebuco.pl / +48 22 205 04 33

Concepteur-redacteur INTEBUKO POLSKA Sp. z o.o.