



INDUSTRIAL EQUIPMENT AND INSTALLATIONS

PCC Apakor Sp. z o.o.

ABOUT THE COMPANY

PCC Apakor Sp. z o.o. belongs to PCC Rokita SA Group which is a part of the international PCC Capital Group, headed by the Company PCC SE, with headquarters in Duisburg, Germany.

PCC Apakor Sp. z o.o. specializes in manufacture and reparation of industrial equipment, pipelines and welded structures, mainly for the chemical, petrochemical and mining industries.

For years, the Company has had a stable and well-established position in the market, supported by over 65 years of experience and numerous references obtained during the fulfilment of investments for domestic and foreign Customers.

Long-term experience of the Company enables it to provide the highest quality of products and services. Out of concern for our Customers' satisfaction, we are constantly striving to improve the quality. The well-prepared, professional team with factual knowledge having many years of professional experience gained during realisation of a number of technically and organizationally complex projects for renowned domestic and foreign Customers is the pillar of the Company. The contracting capacity comprises highly qualified employees who have extensive and permanently extended equipment at their disposal that is necessary for the fulfilment of tasks falling within the company's specialization profile.

What distinguishes the Company is the perfect knowledge of the industrial equipment investment market, as well as high quality of products and services and on-time realisation of projects. We have an implemented management system compliant with the norm **PN-EN ISO 9001:2015**, certified by **UDT-Cert**, quality assurance system in welding **EN ISO 3834-2 / AD 2000-Merkblatt HP 0 / HP 100 R**, certified by **TÜV SÜD**, moreover the Company has a broad range of qualifications granted by **Urząd Dozoru Technicznego** [Polish Technical Inspection Office] and **Transportowy Dozór Techniczny** [Polish Transport Technical Inspection]. The above certificates and qualifications prove that the Company fulfils strict production requirements and confirm the Company's competitiveness in the market.



HISTORY

The beginning of operation of the PCC Apakor Company dates back to 1946 when it started operating as the Apparatuses Construction Department within the structure of the largest chemical plant in the Lower Silesia, Nadodrzańskie Zakłady Przemysłu Organicznego – presently known as PCC Rokita SA.

Since 1993 the Company has been operating as a separate business entity operating under the name of **Zakład Budowy Aparatury “Apakor – Rokita” Sp. z o.o.** Whereas since October **2014** the Company has been continuing its operations under the name of **PCC Apakor Sp. z o.o.**

CHRONOLOGY

1946

Starting production operations as a department within the structure of **Nadodrzańskie Zakłady Przemysłu Organicznego** (at present PCC Rokita SA)

1993

Continuation of operations as a separate business entity operating under the name: **Zakład Budowy Aparatury „Apakor - Rokita” Sp. z o.o.**

2003

Acquiring the controlling interest in **Zakłady Chemiczne Rokita (at present PCC Rokita SA)** by **PCC SE** and starting the Company's operations within the international PCC Capital Group seated in Duisburg, Germany

2014

Change of the Company's name to **PCC Apakor Sp. z o.o.**

PRODUCTS AND SERVICES

Production, repairs and overhauls of industrial equipment, among others:

Storage tanks

- diameters up to **4.5 m** produced entirely in the Company workshop
- bigger diameters, prefabrication on the workshop and construction of tanks at the building site using tank lifting equipment (hydraulic jacks) or traditional method (sheet)

Pressure vessels

- produced in accordance with the binding provisions of **European Union Directive PED 97/23/EC**

Reactors, mixing units

- with the heating / cooling jackets or coils
- with impeller, strip and planetary agitators

Heat exchangers

- shell-and-tube heat exchangers with straight tubes and fixed shell or floating head, u-tubes heat exchangers

Columns

- with cap shelves, valve shelves and with filling

In production of these machinery and equipment various materials are used for example mild steel, low-alloyed high strength steel, heat resisting steel, stainless steel, nickel alloys, hastelloy, duplex, titanium and aluminium. Welders employed at the plant have qualifications which correspond to norms **PN-EN 287-1, PN-EN ISO 9606-2, PN-EN ISO 9606-4, PN-EN ISO 9606-5**. We are prepared to manufacture machinery and equipment of different technical parameters according to customer needs and requirements.

PCC Apakor products comply with accepted Polish and international standards and are competitively priced to meet the customer's unique expectation.



Storage tanks; Ø 3.4 m; H = 23 m; Weight ≈ 44 t



Chemical Waste Reactor; Ø 10 m; H = 11.5 m; Weight ≈ 30 t



Storage tank; $V = 200 \text{ m}^3$; $\varnothing 3.4 \text{ m}$; $L = 23 \text{ m}$; Weight $\approx 43 \text{ t}$



Column; $\varnothing 1.4 \text{ m}$; $H = 42 \text{ m}$; Weight $\approx 54 \text{ t}$



Reactor; $\varnothing 1.5 \text{ m}$; $H = 20 \text{ m}$; Weight $\approx 7 \text{ t}$
Titanium grade 2 and grade 7



Heat exchanger; $\varnothing 2.0 \text{ m}$; $L = 9 \text{ m}$; Weight $\approx 26 \text{ t}$



Reactor; $\varnothing 2.6 \text{ m}$; $L = 8 \text{ m}$



Reactor; $\varnothing 3.5 \text{ m}$; $L = 7 \text{ m}$



Prefabrication and installation of piping systems and gas pipelines

Comprehensive manufacture of piping systems and gas pipelines. Pressure pipelines are being manufactured in accordance to PN-EN 13480, WUDT/UC/2003, AD 2000-Merkblatt, other technical specifications and the technical conditions of completion and acceptance agreed individually with a Customer.

Thanks to the professional experience gained by the staff and the use of professional production equipment, PCC Apakor offers prefabrication and installation of pipelines in a broad range of diameters, wall thicknesses and material grades.



Gas pipeline DN1200



Chlorine pipeline DN150

General Contractor and Engineer of Investment Projects

PCC Apakor offers realisation of investment projects from the design to construction and delivery of equipment in all industries basing on our own production capacity and on the reliable subcontractors. Within cooperation, the Company undertakes to carry out tasks including comprehensive realisation of storage bases, process installations, un/loading points, as the General Contractor. The scope of works depends on the requirements and expectations of Investors.

Designs:

- basic designs
- construction designs
- performance designs

Obtaining the approvals, certificates and construction permits required by the Polish law

Comprehensive fulfilment of deliveries:

- machines and devices
- equipment for all industries

Comprehensive fulfilment of investments in the following sectors:

- construction
- water and sewage
- electrical and ICA
- technological and installation

Preparing Investments for start-up and participating in it

Preparing the post-completion documentation

Obtaining, on Investor's behalf, the use permit





Reparation and modernisation of railway tanks and car cisterns

Reparation and modernisation of railway tanks and car cisterns, pressure drums, Intermediate Bulk Containers (IBC) for transporting hazardous goods. As a result of obtained qualifications from Transportowy Dozór Techniczny [Transport Technical Inspection].

Preparing pressure transport devices, such as railway tanks, pressure drums (barrels for transporting chlorine) for periodical and extraordinary inspections, and performing those inspections in the presence of a TDT Inspector. PCC Apakor operates the railway vehicles of PCC Rokita SA and PCC Exol SA in that scope.

Legalization and current repairs of chlorine barrels, including the performance of the pressure test, leakage test, exchange of valves, disinfection, drying and painting of a tank.

Rubber coatings for railway tanks and car cisterns, pipelines and other specialized equipment

We offer manufacturing of rubber coatings to protect pipelines and industrial equipment against corrosion. The Company manufactures and repairs internal chemical-proof lining in tanks and containers used for carriage of hazardous materials. Depending on the conditions of use, suitable types of linings and application technologies are selected.

Construction, reparation and modernisation of devices for filling and emptying transport tanks (UNO devices)

The Company has the qualifications, granted by Transportowy Dozór Techniczny [Transport Technical Inspection], to produce, repair and modernise devices for filling and emptying transport tanks (UNO devices). We construct new and modernise the existing loading / unloading points based on our own technical documentation, prepared on the basis of the Customers' requirements. We prepare and deliver full registration documentation of devices which are under the TDT supervision.



PRODUCTION CAPACITY – MACHINE PARK

The total surface area of the Company's production halls amounts to 4717 m². The Company has extensive and continually extended equipment necessary for the fulfilment of tasks falling within its specialization profile. The machine park includes among others:

- **CNC** plasma cutting machine for cutting elements of carbon steel, stainless steel and aluminium up to **100 mm** thick out of sheets sized **2 x 3 m**
- welding manipulator with the operating scope of **5 x 5 m**, equipped **25 m** driven guideway; it enables making perimeter welded joints of roller elements in the above mentioned operating scope both in the longitudinal axis of the track bed as well as after rotating by an angle of 90°
- welding tractor whose asset is its minimum size that allows for placing it in confined areas, and its precise driving system and the possibility of fluent control of the operating parameters allow for full synchronization with the assembling rollers
- four-rolls hydraulic plate bending machine, rolling width of **3.1 m**, sheet thickness up to **45 mm**; the machine has a cone bending device
- carousel lathe with the maximum turning diameter of **3.2 m**
- guillotine shear for cutting steel with maximum thickness up to **16 mm**
- borer (drilling-milling machine) with machining area of **2 x 2 m**
- cranes with the lifting capacity up to **32 t**

Applied welding technologies:

- Shielded metal arc welding – **111 (SMAW)**
- Metal inert gas welding **131** and metal active gas welding **135 (GMAW)**
- Flux-cored arc welding (**FCAW**)
- Gas tungsten arc welding **141 (GTAW)**
- Submerged arc welding **121 (SAW)**



The Company offers services including plastic treatment of metal and steel machines:

TYPES OF WORKS	CRITICAL PARAMETERS	
CUTTING		
Plasma and oxyacetylene	thickness up to:	carbon steel up to 100 mm acid resistant steel up to 60 mm aluminium up to 80 mm
	size of the machining area:	length up to 3 m width up to 2 m
Guillotine shear	thickness up to:	carbon steel of 16 mm acid resistant steel of 14 mm length up to 3 m
Belt saw	thickness up to:	400 mm
COILING		
	maximum thickness:	45 mm
	maximum length:	3.1 m
TURNING		
Carousel lathe	maximum diameter:	3.2 m
Vertical lathe	maximum diameter:	450 mm
BORING (drilling-milling machine)		
	machining area:	2 x 2 m
PRESS FORMING		
	pressure to:	200 t
	machining area:	650 x 900 mm
PLATE BENDING		
	maximum diameter:	3 m
MILLING		
	maximum diameter:	500 mm
	table length:	1.5 m

QUALITY CONTROL

All products produced in PCC Apakor Sp. z o.o. are subject to quality control conducted by Quality Control Department and the Internal Laboratory for verifying and confirming that the technical and quality requirements have been fulfilled. PCC Apakor has a laboratory approved by Urząd Dozoru Technicznego [Technical Inspection Office] and staff qualified in this scope. It performs the following destructive and non-destructive testing:

- hardness tests
- tensile tests
- x-ray tests
- penetration tests
- bending strength tests
- macroscopic tests
- ultrasonic tests
- thickness tests
- impact strength tests

QUALIFICATIONS AND CERTIFICATES

Granted by the Technical Inspection Office:

Certificate of the quality management system in accordance with the norm
PN-EN ISO 9001:2015

Qualifications to manufacture:

- non-pressure and low-pressure tanks for poisonous, corrosive materials or for liquid ignitable materials
- transmission pipelines for ignitable, poisonous or corrosive materials

Qualifications to modernise and repair:

- non-pressure and low-pressure tanks for poisonous, corrosive materials or for liquid ignitable materials
- steam and water boilers
- process pipelines for ignitable, poisonous or corrosive materials
- transmission pipelines for ignitable, poisonous or corrosive materials
- acetylene generators
- permanent pressure tanks, and portable tanks

EC Certificate of Conformity

Confirms that PCC Apakor Sp. z o.o. fulfils the requirements of module A1 in the scope of manufacture of pressure devices according to **Directive 97/23/EC**.

UDT – certificate of Laboratory recognition

Certificate of Laboratory recognition in the scope of performing laboratory tests.

UDT – certificate of UDT subcontractor in the scope of performing laboratory tests

Certificate of UDT subcontractor in the scope of performing laboratory tests.



Technical Inspection of Transport

TDT qualifications to perform the following activities:

- manufacture, modernisation and reparation of devices for filling and emptying transport tanks
- modernisation and reparation of rail and road tankers, pressure drums, Intermediate Bulk Containers (DPPL) for transporting hazardous goods classes 2, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 6.2, 8 and 9 according to **ADR** and **RID**, except for rail and road tankers, pressure drums for transporting hazardous goods class 2 and some hazardous goods class 5.1, 6.1 and 8, marked with π in accordance with directive **2010/35/EU**
- modernisation and reparation of rail and road tankers for transporting materials not considered as hazardous goods, filled, emptied or transported under the pressure higher **0.05 MPa**
- reparation of pressure tanks with compressed air installed in railway vehicles
- reparation of inside anti-corrosive linings of tanks as well as operating fittings of rail and road tankers

Certificate for preparing pressure transport devices for periodic, intermediate and extraordinary tests in the scope of: rail tankers, pressure drums, pressure cylinders marked π in accordance with directive **2010/35/UE**.

Examination centre for candidates for welders in methods: 111, 135, 136, 141 and operators of welding devices in method 121.



TÜV SÜD Industrie Service GmbH:

- Certificate of fulfilment of certain quality requirements pertaining to welding according to EN ISO 3834-2
- Certificate of verification as manufacturer according to AD 2000-Merkblatt HP 0/HP 100 R and EN ISO 3834-2



REFERENCES

Our customers include:



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