

WE TURN
VISION
INTO
REALITY

70

YEARS

of experience
in innovativeness



GRUPA TRAKCJA

Grupa Trakcja was created by entities specialised in the key sectors of infrastructure, energy, industrial and general construction. We operate in the countries of Central and Eastern Europe, especially in Lithuania, Latvia, Ukraine, as well as in Germany and Sweden.

We implement the most complex contracts in scope of construction of railway, tram and trolleybus lines. We specialise in construction of roads, bridges, engineering and cubature facilities, as well as in the area of environmental engineering.

Power engineering sector is an important area of our business activity, in which we work as the contractor of distribution and industrial networks, as well as the producer of equipment for the railway and tram power supply systems.

We ensure comprehensive implementation of contracts and provide design services.

full offer
in terms of
infrastructure
construction



GRUPA TRAKCJA STRUCTURE

Grupa Trakcja is created by: Trakcja, Kauno Tiltai, PRK 7 Nieruchomości, Torprojekt, Przedsiębiorstwo Eksploatacji Ulic i Mostów Białystok, Bahn Technik Wrocław, Dalba i Platforma Działalności Międzynarodowej.

Trakcja as a legal successor of the Railway Electrification Works Enterprise, established after the end of the War, can be proud of 70 years of experience in railway construction sector. Along with strengthening the leading position in the sector, Trakcja has been gradually developing activity in the remaining segments of the infrastructure construction industry.

Trakcja

Railway, road, engineering, energy, cubature construction, design

- **AB Kauno Tiltai** (98,09%) **Filie**
Construction of roads, bridges, railway, energy construction
- **BTW sp. z o.o.** (100%)
Tracks, welding works, equipment services
- **PEUIM sp. z o.o.** (99,7%)
Construction of roads and bridges
- **TORPROJEKT sp. z o.o.** (82,35 %)
Design activity
- **PRK 7 Nieruchomości sp. z o.o.** (100%)
Real-estate development activity
- **Dalba sp. z o.o.** (100%)
Environmental engineering
- **PDM S.A.** (94,62%) **Trakcja Ukraina** (100%)
Rental of personnel and equipment Road construction

12

AREAS

we implement
projects in
all sectors of
infrastructure
construction

COMPETENCES OF THE TRAKCJA GROUP



Construction and comprehensive modernisation of the railway infrastructure, including tracks and overhead catenary line, engineering facilities, railway platforms with elements of small architecture.



Construction and modernisation of roads and highways along with: pavements, bicycle paths, lighting, etc. Production of bitumen and concrete.



Construction and installation of high voltage and medium voltage switchgears for powering the railway, tram and trolleybus tractions. Production of transmission towers of the traction networks.



Construction and modernisation of the traction substations powering the railway and means of public transport, such as trams or trolleybuses. Construction of cable and overhead power lines of high, medium and low voltage.



Construction and modernisation of the bridges and viaducts.



Comprehensive design works for railway, road, energy, engineering and cubature sectors.



Execution of tram and trolleybus infrastructure.



Installation of solar farms.



Implementation of projects in scope of environmental engineering, including water mains networks and collectors, sanitary sewerage, sewage farms and sewage pumping stations, as well as reinforced concrete tanks, facilities related to environmental protection.



Construction of cubature facilities of various use and housing estates.



Personnel rental.



Equipment rental.

8

COUNTRIES

industry
and geographic
diversification



STRATEGY OF THE GRUPA TRAKCJA

In the coming years, Grupa Trakcja will continue industrial and geographic diversification through:



organic development in the railway and road construction segment, strengthening the role of hydrotechnical and cubature construction, as well as the construction in the field of power engineering in revenues generated on the Polish market (Trakcja S.A.),



strengthening the market position in home countries and on the markets of Baltic and Scandinavian countries (subsidiaries),



gaining new contracts in the Eastern European and Central European markets (Grupa Trakcja).

271

CONTRATS

completed in the last 5 years in value of 10 900 million PLN*

- RAILWAY
- ROADS
- POWER ENGINEERING
- URBAN INFRASTRUCTURE
- CUBATURE DESIGN
- DESIGN AND CONSTRUCTION
- ENGINEERING FACILITIES
- ENVIRONMENTAL ENGINEERING



SELECTED CONTRACTS

- **RAILWAY CONTRACTS**
 - Design and construction works on the railway line E20 Siedlce – Terespol
 - Reconstruction of the track systems along with accompanying infrastructure on the railway line E59 section Stargard – Szczecin Dąbie
 - Design and execution of works within the Construction of Szczecin Metropolitan Railway project
- **ROAD CONTRACTS**
 - Extension of the section DW 694 Przyjmy – Brok – province borders along with road engineering structures and necessary technical infrastructure in Małkinia Górna
 - Reconstruction of communication system at the junction of Grójecka, Harfowa and Raclawicka Streets
 - Works within construction of the highway A1 Toruń – Stryków: section I Czerniewice – Odolion and section II Odolion – Brzezine
- **POWER ENGINEERING CONTRACTS**
 - Construction of the road lighting for the new express way S-3 Nowa Sól – Legnica
 - Construction of a single-track overhead HV cable line 110 kV Przasnysz – Chorzele
 - Modernisation of the 110/15 kV station Maków Mazowiecki
- **URBAN INFRASTRUCTURE**
 - Reconstruction of the tramway tracks along the Krakowska Street in Cracow
 - Reconstruction of the road along with reconstruction of the tracks of the Warszawska and Sikorski Street in Gorzów Wielkopolski
 - Installation of the traction network elements on two five-kilometre section of the „electric highway“ created as a part of the ELISA eHighway Hessen project on the highway A5 between Frankfurt am Main and Darmstadt in Germany
- **CUBATURE CONTRACTS**
 - Construction of a modern equipment base in Bieńkowiec
 - Construction of a technical facility for trains of the Łódź Agglomeration Railway
 - Construction of a didactic facility along with infrastructure within the area of Ząbki near Warsaw

* net value of contracts with the scope of work of consortium members

10th

PLACE

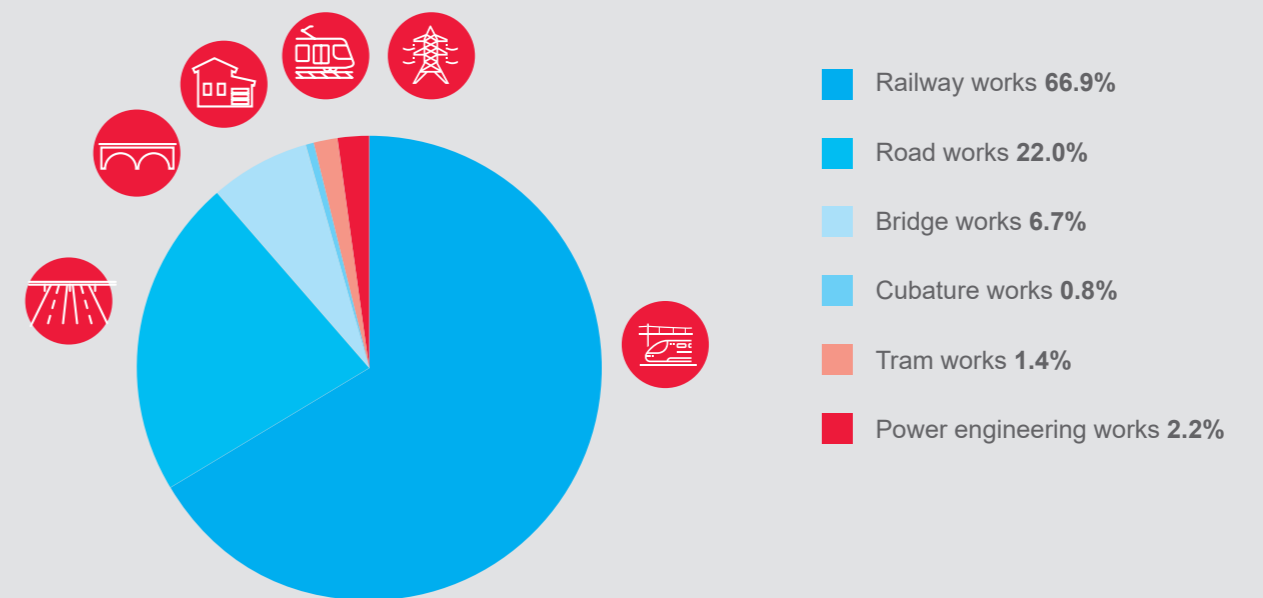
among the biggest construction companies in Poland in 2019*

*according to Trakcja Group's revenues for 2018 (Deloitte)



SHARE OF INDIVIDUAL ACTIVITY AREAS IN THE ORDER PORTFLIO*

The main client is PKP Polish State Railways S.A. The remaining clients are, among others: General Directorate for National Roads and Highways, local government units.



*according to revenues in 2019

127

RAILWAY
CONTRACTS

completed
in 2015-2019



RAILWAY CONSTRUCTION TRACK WORKS

We conduct investment projects related to comprehensive construction and modernisation of the railway lines.

Within the track sector, we make railbeds, conduct earthworks, drainage works and surfacing works, both in traditional and ballast-free technology.

For implementation of our contracts we hire highly qualified manager staff that gained experience while managing the largest railway construction projects in Poland and Lithuania.

We have one of the largest potential of specialised machines for modernisation and maintenance of the tracks and the railway traction network in Poland. We have our own railway engines and trucks, thanks to which we perform rail transport of building materials and aggregates.

9300

million PLN*
value of completed
and implemented
contracts
in 2015-2019

* net value of contracts with the scope of work of consortium members



RAILWAY CONSTRUCTION OVERHEAD CATENARY LINE WORKS

We own specialised equipment for the railway works which enables us to comprehensively perform the tasks in scope of construction, renovation and maintenance of the overhead catenary line.

Our machine park consists of, among others: network trains and rail vehicles, pile driving machines and railway cranes. We also build traction substations, sectional cabins, and design and construct remote control systems for power supply devices of the overhead catenary line.

OUR COMPLETED CONTRACTS:

- Reconstruction of the track systems along with infrastructure on the rail line E59 Stargard – Szczecin Dąbie
- Revitalisation of the railway lines Bronów – Bieniowiec – Skoczów – Goleiszów – Cieszyn/Wisła/Głębce
- Design and construction of the railway line E65 in specific locations in the area of LCC Malbork
- Modernisation of the Warsaw line – Gdynia, area LCC Działdowo
- Execution of construction works in the area of LCC Łowicz – Sochaczew section – Żychlin and Placencja section – Łowicz Główny

347

UNITS

of specialised
railway and power
engineering
equipment*

*as of June 2020



RAILWAY CONSTRUCTION SPECIALIST SERVICES

We are the only general contractor of the railway investments that have its own Technical Base for the railway vehicles. In the hall with an area of over 2.1 thousand m², there are three tracks that allow to perform services in terms of, among others: service and repair of the trucks, railway engines, track machines and special vehicles.

Technical Base provides the service to the own vehicles of the Company and external customers.

We provide an extensive park of specialised machines and vehicles for the needs of track and traction network construction.

They consist of: network trains, trains for continuous track laying of Continuous Track Laying type, tamping machines, cranes, ballast cleaners, specialised self-unloading trucks and pile driving machines, railway cranes, machines for track works and many others. Our own diesel locomotives and possession of rail carrier certificate allow us to deliver materials directly to the workplace. All machines and equipment are operated by experienced operators.

We also own general construction equipment such as: diggers, loaders, lorries, tippers, cranes and cisterns securing the possibility of uninterrupted work in remote locations and sale of fuels to other entities. We provide specialised welding services of the railway and tram tracks.

314

million PLN

value of
the biggest road
contract performed
in years 2015-2020*



* net value of contracts with the scope of work of consortium members



ROAD CONSTRUCTION

We develop road construction in terms of express ways, highways and local roads.

We implement projects as the general contractor with participation of subcontractors, or using our own potential.

We perform specialised tasks of paving, constructing engineering facilities, drainage, lighting, sewerage, also infrastructure for pedestrians and cyclists. We are the producer of bitumen for the needs of our own contracts and external clients.

OUR COMPLETED CONTRACTS:

- Construction of the second road section Plungė – Šateikiai in Lithuania
- Construction of the Bolesław Chrobry bridge in Wrocław
- Design and construction of the express way S-5 on the section Szubin – Jaroszewo
- Construction and extension of the provincial road rr 676 along with road engineering structures and necessary technical infrastructure on the section Białystok – Supraśl
- Extension of the provincial road on the section Mojuż – Kartuzy

In the road construction sector, we specialise in construction and modernization of the roads, highways, bridges, viaducts, engineering facilities, we execute drainage, lighting, sewerage and infrastructure for pedestrians and cyclists.

We implement projects mostly as a general contractor with participation of subcontractors and independently with the use of our own potential. Experienced engineering staff that has completed many road investments, both in open and urbanised areas, including main arteries of the cities, is undoubtedly our big asset. Engineers working on the contracts, supported by designers, verify offered and implemented projects on an ongoing basis and, at the same time, perform their optimisation. Adopted scheme allows the Company to participate in projects both in the form of *design and build* as well as in *build*.



63

KILOMETERS

of high voltage
overhead lines
constructed
in 2016 – 2019



POWER ENGINEERING CONSTRUCTION

Works connected with power engineering construction require qualified staff, experience and proper equipment. We have an extensive and modern base of specialised equipment for conducting power engineering works that include, among others: winches, tensioners, mobile cranes, hydraulic truck cranes.

We specialise in construction of traction substations for the needs of power supply of the railway, tram and trolleybus lines, as well as section cabins which we equip with the switchgears of our own production.

In addition to modernising existing products, we currently work on:

- Dual Compensation of reactive power with ATS (Automatic Transfer Switch) - LV systems - up to 50 kVAr
- Converter stations from 3 kV DC to utilisation voltage AC 0,4 kV - consortium with SESTO Łódź
- We expand our selection of switchgears with new LV and MV switchgears of our own production.
- We work on container stations of power up to 1.6 MVA for the needs of the RES farms and on compensation stations equipped with active filters
- We work on bases for AC power supply for high-speed rail
- In cooperation with MY-SOFT company, we develop electricity storage to support an urban traction system

ELECTRIC POWER INFRASTRUCTURE

We provide services in scope of construction, modernisation, repair and maintenance of the electric power infrastructure. We make, among others, overhead and cable transmission lines of medium and high voltage. As well as stations and electric power switchgears for Distribution Facilities.



30

MW

total power of solar
farms built
in 2018 - 2019 in
Poland and Hungary



ENERGY CONSTRUCTION

RES RENEWABLE ENERGY SOURCES

In order to meet the needs of the market, we have extended our offer with construction of renewable energy sources installations (RES) and energy storage.

ENERGY STORAGE UNITS

We are the producer of electrical power storage units which help to stabilise the network and are used to collect the power reserve generated by renewable power sources, what directly translates into strengthening the energy security of the region.

As the first in Poland and the second in Europe, at the request of the Energa Operator S.A., in consortium, we have produced an energy storage unit which was installed on a wind farm in Pomorze, Puck region . The product was awarded with the cup of the Chamber of Commerce for Energy and Environmental Protection during the Energy Fair in Bielsko - Biala.

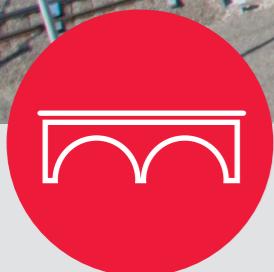
OUR COMPLETED CONTRACTS:

- Design and installation of 14 solar power stations of total power of 7.7 MW in Hungary
- Construction of the new power line 110 kV between Radymno – Korczowa
- Construction of the electrical installation on the Widzew stadium
- Modernisation of the overhead line 110 kV Mielec – Mielec WSK and Połaniec – Mielec Smoczka
- Construction of the electrical installation in the new Municipal Hospital in Lublin.
- Construction of the electrical installation in sports hall in Łódź.
- Reconstruction of the „Sokrates“ traction substation building in Warsaw along with the equipment
- Solar farm in Gajle (construction of two installations of power up to 1 MW each)
- Construction of the road lighting for the new express way S-3 Nowa Sól – Legnica

1127

FACILITIES

built in
2010-2020



ENGINEERING FACILITIES

A significant volume of the ordering portfolio predicts construction of engineering facilities, such as viaducts, railway and road bridges, culverts, tunnels, overground and underground pedestrian crossings.

We perform modernisation and construction of various engineering facilities.

OUR COMPLETED CONTRACTS:

- Revitalisation of the railway lines Bronów – Bieniowiec – Skoczów – Goleszów – Cieszyn/Wisła/Głębce
- Works on the railway lines on the section Chybie – Żory – Rybnik – Nędza / Turze
- Design and construction works on the railway line Cracow – Medyka – country border on the section Sędziszów Małopolski – Rzeszów
- Reconstruction of the track systems along with infrastructure on the railway line E59 section Choszczno – Stargard
- Modernisation works on the railway line E59 Mosina – Luboń



11 TOWNS IN POLAND

implementation
of tram and
trolleybus
contracts



URBAN INFRASTRUCTURE

We actively participate in the development of urban infrastructure: we build and modernise tram and trolleybus lines.

We perform tasks in the range of installation of the passenger infrastructure along with overhead catenary line, modernise line control and power supply systems, including traction substations which we equip with power switchgears of our own production. We also provide services in the field of servicing the delivered devices.

OUR COMPLETED CONTRACTS:

- Reconstruction of the tramway tracks along the Krakowska Street in Cracow
- Reconstruction of the road along with reconstruction of the tracks of the Warszawska and Sikorski Street in Gorzów Wielkopolski
- Installation of the traction network elements on two five-kilometre section of the „electric highway“ created as a part of the ELISA eHighway Hessen project on the highway A5 between Frankfurt am Main and Darmstadt in Germany
- Construction of the trolleybus traction and a power supply along with construction of the „Kolejarz“ substation in Lublin

68,5

THOUSAND M³

the biggest
cubature facility
designed and
built by Trakcja



CUBATURE CONSTRUCTION

Cubature construction includes execution of the public utility facilities and those related to exploitation of the rail vehicles, such as train washes and servicing halls connected with administrative areas.

We also conduct development activity. We construct, among others, detached houses, apartment blocks and housing estates. We are dynamically developing our potential in terms of general construction.

OUR COMPLETED CONTRACTS:

- Construction of modern equipment base in Bieńkowice
- Construction of technical facility for trains of the Łódź Agglomeration Railway
- Construction of didactic facility along with infrastructure within the area of Ząbki near Warsaw
- Construction of Special Educational Care Facility in Pruszków ul. Wapienna in II stages
- Grupa Trakcja Company will expand the Academy of Special Education of Maria Grzegorzewska in Warsaw
- The University of Warsaw Library (underground) adaptation for the needs of sports classes in The University of Warsaw Library

105

MANUFACTURED

rail, tram, trolleybus
and medium
voltage MV 15 kv
switchgears



INDUSTRIAL MANUFACTURE

MEDIUM AND LOW VOLTAGE SWITCHGEARS

The basis of our offer is production of medium and low voltage switchgears in scope of direct and alternating current. Our products are recognised among recipients due to their high level of reliability and durability.

We have been trusted by our customers for over 50 years, providing switchgears for the needs of rail, tram and trolleybus lines. We also provide individual orders.

TRANSMISSION TOWERS

We are also the producer of transmission towers for the overhead catenary line.

50

million PLN

Value of contracts
completed
in 2016 – 2021



ENVIRONMENTAL ENGINEERING

As modern and responsible companies operating on the construction market, in the course of our activity, we treat issues related to environmental engineering as our priority.

For many years we've been developing our professional technical knowledge which enables to build:

- water supply, sanitary sewerage, storm water drainage networks and connections of all diameters and materials,
- sewage treatment plants, sewage pumping stations, reinforced concrete tanks,
- securing constructions for excavations with walling of sheet piles.

OUR COMPLETED CONTRACTS:

- Construction of the storm water drainage and modernization of the water mains collision on the section S61 Ełk Południe – Wysokie junction D88:D97
- Extension of the national road No. 8 to the parameters of an express way on the section Wyszaków – border of Podlaskie province
- Construction and extension of the provincial road No. 682 on the section Łapy – Markowszczyzna
- Construction of the Tysiąclecie Państwa Polskiego Street section from the junction of Gen. St. Maczek Street with Wileńska Street in Białystok
- Construction of a viaduct over the Polish State Railways tracks along with construction and extension of the provincial road No. 674 in Sokółka with technical infrastructure
- Design and construction of an express way S61 Szczuczyn – Budzisko (country border)
- Expansion of the sewage treatment plant and sewage pumping station in Kuźnica
- Construction of the storm water drainage along with reconstruction of water mains collision on the section of S61 Ełk Południe – Wysokie

1700

KILOMETRES

total length of
designed
new railway lines
and sidings



DESIGN

Activity of our Group is related to providing design services for railway, road, industry and energy sectors. We prepare program and spatial concepts, feasibility studies, construction designs, detailed designs, estimates, and other forms of tender and construction documentation.

In this field, we perform tasks that respond to the needs of investors, companies of the Grupa Trakcja, and the biggest entities of the infrastructure construction engineering in Poland. Thanks to great and rich experience, we offer comprehensive, reliable and innovative solutions characterised by high technical level.

OUR COMPLETED CONTRACTS:

- Preparation of design documentation for the reconstruction of the cross-city line in Warsaw
- Design and construction works for modernisation of the railway line E75 Rail Baltica Warsaw – Białystok – border with Lithuania
- Design and construction works on the railway line Cracow – Medyka – country border on the section Podłęże – Bochnia
- Design and reconstruction works of the Łódź Widzew station and part of the route Łódź Fabryczna – Łódź Widzew along with traffic control and telecommunication devices for entire section Łódź Fabryczna – Łódź Widzew, as well as modernisation of the detour line Łódź Widzew – Łódź Chojny – Łódź Kaliska
- Design works and author's supervision for construction of the new Krośnice traction substation along with 15 kV power line, together with overhead catenary line power supply units and return cables
- Design and construction works on the railway line Kraków – Medyka – country border on section Sędziszów Małopolski – Rzeszów Zachodni
- Preparation of design and tender documentation, as well as conducting an author's supervision over developed documentation for the construction works related to the reconstruction of the Warszawa Zachodnia (West Warsaw) station
- Preparation of design documentation and conducting an author's supervision for the reconstruction of the cross-city line in Warsaw

507

PARTICIPANTS

of the
Widoczny Bezpieczny
(Visible Safe) action



SOCIAL RESPONSIBILITY

Trakcja S.A. continuously broadens the scope of competences through the systematic development of activity in the new segments of construction sector. We are conscious about the long-term effects of actions that concern both the quality of service and products, as well as the way we treat our clients, employees and business partners.

In the 70 years long activity, Trakcja S.A. respects universal values based on sustainable development through:

- managing the values and creating organisational culture,
- creating friendly and safe working environment for the employees,
- completing investments with an utmost diligence, according to the client's needs,
- building and maintaining positive relationships with local communities,
- performing the works with respect for the natural environment and with the use of ecological technologies,
- up-to-date technical control and timely inspections of construction equipment,
- optimal use of raw materials and minimisation of created waste,
- performing the works under the watchful eye of the OHS and Environment Protection coordinators,
- comprehensive offer and increasing the client's satisfaction, job stabilisation, as well as through the trust of shareholders, financial institutions, and public credibility in the economic system.

This effort is reflected in the right to be called a socially responsible company, qualified for the RESPECT INDEX project conducted by the Warsaw Stock Exchange and Association of Stock Exchange Issuers.

Since 2017, we conduct „Widoczny - Bezpieczny” („Visible - Safe”) campaign aimed at children in kindergartens and primary schools which are located near the construction investments executed by the company. The goal of the action is to introduce children to the rules of safe movement on the road and near the construction sites.

Compliance with health and safety regulations is the primary responsibility of employers and employees. Trakcja aims to continuously increase the awareness of the safety culture during conducted activity. Therefore, in 2018, we have inaugurated the „Bezpieczna budowa” („Safe construction”) competition which goal is to increase the awareness of the job safety.



AWARDS

Trakcja's systematic efforts to implement innovative solutions in business operations, with the simultaneous involvement in social, employee and environmental issues, have gained wide recognition and brought a number of awards, including:

- Brown medal for „Lithium and titanium energy storage system to improve the MV network“, constructed in cooperation with MY-SOFT Sp. z o.o company, handed over during the 31st edition of Energetab fair.
- Medal of the President of the Association of Polish Electrical Engineers and a distinction in the competition organised by the Jan Podolski Chamber of Commerce for Municipal Transport for „Modular system of dynamic load regulation of a traction substation with the possibility of connecting charging points“, developed in cooperation with MY-SOFT company. The main assumption of the system is to store energy during periods of interruptions in the intensity of a train or tram traffic and the possibility of using it, e.g. for charging electric cars.
- Distinction in the Józef Nowkuński contest organised as a part of Trako International Railway Fairs for dynamic traveller information system and passenger safety - TRAKCJA – SAT HUSAR SIP. This system was used for the first time at the Łódź Fabryczna station and belongs to one of the most advanced solutions of this type in Poland. Technological partner of the solution is Sat System company.
- Leader of Safe Work – distinction for contribution to development of the job safety culture awarded by Central Institute for Labour Protection - National Research Institute
- Symbol of Railway Technology 2017, – distinction awarded by the publisher of business supplements in Rzeczpospolita and Dziennik Gazeta Prawna for overall business activity.
- 3rd category award in the „Budowa roku“ („Construction of the year“) contest for the construction of technical facility for the Łódź Agglomeration Railway, awarded by the Polish Association of Construction Engineers and Technicians as a part of the 25th edition of the contest organised under the patronage of the Ministry of Infrastructure and Development and the Central Office of Construction Supervision.
- „Buduj bezpiecznie“ („Build safely“) distinction. Organiser of the contest is the National Labour Inspectorate – District Labour Inspectorates. The construction of modernisation of the tram line along the Sikorski Street in Gorzów Wielkopolski was submitted for the contest,
- „Improvement of working conditions“ first degree award. National Contest of Improving the Working Conditions, category: organisational and educational activities. The contest is organised by the Ministry of Family, Labour and Social Policy, in cooperation with other ministries, the Chief Technical Organisation, working conditions control offices, insurance institutions and social partners.
- First place in „Buduj Bezpiecznie“ („Build safely“) contest. First place in the contest organised by the National Labour Inspectorate for the contract: Reconstruction of the road along with the tracks along the Warszawska and Sikorski Street in Gorzów Wielkopolski.

Since 2017,
Trakcja has
the right to use
the

RESPECT
INDEX SIGN



**WE TURN
VISION
INTO
REALITY**

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