



Working on railway infrastructure requires responsibility and engagement of professional staff. Pružne građevine are constantly training their staff and the company has at its disposal devices, vehicles and tools for working on railway facilities. The company's own workshops can service the equipment available to Pružne građevine. The specialty of the company is the ability of arc welding of railway tracks into a long strip. The above-mentioned capabilities result in quality output, which is an overall factor in the safety performance of the company's railway operations.

About us

Pružne građevine d.o.o. (Pružne građevine Ltd.) were formed by consolidation of a number of smaller companies in the field of construction, design, and maintenance of railway networks, electrical infrastructure along railway routes, and the equipping of many railway routes in the Republic of Croatia into one.

As a leader in construction, maintenance and equipping, Pružne građevine, among everything else, produces individual pieces

of equipment which are installed into mechanical and electronic circuits, all under the slogan "Sigurnost do cilja" ("Safety to the Goal").

The company was formed in 2013, however,
the experience of some parts of the company
is more than half a century old. Due to these divisions joined under the main company: Common Services Managing Division, Concrete
and Steel Structures Business Division, Posit
Business Division, Railway Overhaul Business
Division, Mechanization Business Division and
Railway Maintenance Business Division, Pružne
građevine is classified as a company with high

organizational and technical capabilities.



Tovarnik Railway Station



Company mission statement

Zeleni most Bridge

Mission statement of Pružne građevine d.o.o. is to be present on the Croatian market as a strong company within its field, and to expand its activity to neighbouring countries.



Fužine Overpass



Nova Kapela - Lužani

Technical and staff resources

There is wide range of work, production, and service activities of Pružne građevine such as construction and overhaul of the permanent way, railway stations and industrial tracks, the execution of work on the mechanical maintenance of the tracks, the construction of crane ways and special structures of the tracks, regular and emergency maintenance of railway lines, construction of railway stations, maintenance of railway, road, strategic and small construction and transhipment mechanization, cabling, installation, activation, testing and commissioning of signalling and safety (SS) and telecommunication (TC) devices, production of various parts of SS devices and all kinds of signal markings, arc welding of rails into a long-strip, production of insulated adhesive assemblies and transition rails, construction of materials for aluminothermic welding of rails, and other equipment and tools for aluminothermic welding, renovations, sleepers by use of tipping wagons.

overhaul and construction of overhead wire and power plants and production of turnouts with the possibility of delivering mounted turnouts to the

Pružne građevine is considered to be a medium-sized company by the number of its employees. The variety of professional qualifications allow for high quality service provision, be it egguiping, building or manufacturing, but also mobility when it comes to particular situations for which Pružne građevine are qualified.



Budrovci

The engineering and technical staff is able to meet all the challenges posed in the field of railway traffic.

It is a treasure trove of knowledge and experience that Pružne građevine d.o.o. are proud of. Pružne građevine d.o.o. company is 100% owned by HŽ Infrastruktura d.o.o.

THE BOARD 0F DIRECTORS

TRANSPORT SAFETY

- OCCUPATION **SAFETY**
- FIRE SAFETY **ENVIOREN-MENTAL**

PROTECTION

INTERNAL AUDIT

- MANAGEMENT OFFICE
- MANAGEMENT **SECRETARY**

DIRECTOR

COMMON **SERVICES** MANAGING DIVISION

TRAIN DRIVERS **TRAINING CENTRE**

DIRECTOR

CONCRETE **AND STEEL STRUCTURES BUSINESS** DIVISION

DIRECTOR

"POSIT" **BUSINESS** DIVISION

Company scheme

DIRECTOR

RAILWAY **OVERHAUL BUSINESS** DIVISION

DIRECTOR

RAILWAY





DIRECTOR

MAINTENANCE **BUSINESS DIVISION**



Quality management policy

The company management ensures that the documents, records and resources are managed in accordance with the requirements of the quality management system and environmental protection, and that appropriate internal and external communication processes are in place.

In the Pružne građevine d.o.o. company, process management complies with the requirements of the international standards ISO 9001 and 14001.

The processes of continuous efficiency improvement of the integrated management system are implemented by applying quality and environmental policy, establishing goals and programs, evaluating customer satisfaction, reviewing audit results, analysing process and product monitoring data, remedial and preventative measures, and periodic evaluation systems.





Overpass near Okučani



Rail vehicle with a crane

All the different activities in Pružne građevine serve the same purpose, which is maximizing the efficiency of all entities in the work process. Fully implemented activities of Pružne građevine provide the backbone related to the construction of railway lines and the construction of infrastructure close to railway routes.

Speciality of Pružne građevine is the design, production and construction of safety infrastructure, without which rail traffic would be unthinkable today.

Business Division - "Concrete and Steel Constructions",

Business Division - "Posit",

Business Division - "Railway Overhaul",

Business Division - "Mechanization",

Business Division - "Railway Maintenance" and

Managing Division - "Common Services"







Activities



Rehabilitation of the rock with concrete

CONCRETE AND STEEL CONSTRUCTIONS Business Division

The organization of the Concrete and Steel Structures Business Division is determined by the activity the Business Division is engaged in. It is responsible not only for the development of railway traffic, but also, for the traffic routes that are intersected by rivers, mountains and valleys.

The construction of bridges, overpasses, tunnel maintenance, slopes stabilisation and the protection of tracks against landslides and other disturbances are all necessary activities without which there is no safe passage of railway traffic.

The Concrete and Steel Structures Business Division is organized into five organizational units and their activities are:

- construction, installation and maintenance of steel structures (bridges, etc.)
- anti-corrosion protection of steel structures
- construction and installation of railway suspension bridges
- installation of heavy structures
- construction, installation and repair of reinforced concrete
 bridge structures
- repair of structures with spray concrete and jet grouting
- geotechnical stabilisation of rock masses and tunnels
- maintenance, construction and installation of wagons and railway scales
- construction and maintenance of other railway structures
- manufacturing of railway equipment (turnouts, signs, aluminothermic materials)



Rahabilitation of retaining wall



Reconstruction of the bridge



Station – Vrapče



Posit performs:

- Execution of works by activating, checking and commissioning and partial delivery of equipment with the preparation of technical documentation for the installation of new railway stations' SS devices, interstation dependence and Automatic Train Protection (ATP) system devices, remote control devices, interlocking devices etc.
- Works on coordinating SS, TC and electro power plants during capital overhaul of railway sections,
- Works on regular and investment maintenance of signalling and safety devices,
- Works on regular and investment maintenance of telecommunication devices
- Works on regular and investment maintenance of the high current device
- Major repairs of power cables
- Anti-corrosion protection of load-bearing structures of the overhead line
- Repair of foundations and construction of foundations for light poles and overhead line
- Designing and construction of lighting in railway stations

In addition to the engineering and assembly departments who also do fieldwork, POSIT Business

who also do fieldwork, POSIT Business Division also has a production depart-



ment within which various parts of SS devices are made; signals, pre-signals, shunting and boundary signals, half barrier gate mechanism, telephone and cable cabinets, and all types of signal markers. POSIT also repairs worn-out security elements, and offers support to external field crews

(supplies galvanized tin cable ducts, concrete signal foundations, various frames, brackets, etc.), as well as switching off and on the SS devices as needed).

In addition to the installation of new devices, a significant part of the company's external work is also investment maintenance and monitoring of all railway track overhauls.





POSIT Business Division

Half a century of experience working on cabling, installations, activation, testing and commissioning of railway signalling and safety (SS) and telecommunication (TC) devices.





RAILWAY OVERHAUL Business Division

Railway Overhaul Business
Division with its capacity can
perform up to 100 km of capital
overhauls annually, make machine
replacements up to 100 parts of
turnouts, and work as needed
on repairs and construction of
industrial, workshop and port
tracks, while also providing
workforce assistance according to
the available capacity.

The main activity of Railway Overhaul Business Division is construction and capital overhauls of the permanent way, railway stations and industrial tracks, as well as performing all the machine maintenance work on the tracks (ballast tampers, ballast prism maintenance and cleaning machines), performing all kinds of work on the construction of crane ways and special track structures, machine replacement of turnouts and sleepers, welding of rails on tracks and turnouts, ultrasonic weld testing, replacement of materials of the permanent way, geodetic support for works, assistance when removing snow, removal of the debris due to natural disasters and unforeseen events, preparing implementing technical documentation, and preparing final and examination technical documentation for derivative works.

The Railway Repair Business Division has at its disposal quality track machinery and employees who have passed the appropriate professional exam to perform railway work pursuant to the Pravilnik hrvatskih željeznica (Croatian Railways Regulations), Regulation 646, and who are trained to operate safely on railways and electrified tracks and track area.











Ballast tamper, 09-3X



Heavy rail vehicle

MECHANIZATION Business Division

Mechanization Business Division is engaged in repair, maintenance and modernization of all machines and tools for work on the tracks, in addition to production of tools and equipment. Expert staff is able to maintain strategic mechanization (strategic mechanization refers to machines for the maintenance and

construction of the permanent way – ballast tampers, bollards, planers, gantry cranes, machines for individual change of sleepers and machines for replacing turnouts) and small construction and handling equipment, including control inspection, large and small repairs, emergency and off-site repairs, non-standard parts for various machines.



Zaprešić workshop for repairs and overhauls



Transmissions

The vehicles / machines we maintain:

- Gantry cranes (5 and 6 t)
- Machines for the replacement of sleepers
- P.U.M.+MWT
- Overhead line rail vehicles and construction rail vehicles
- WTW wagons for turnouts
- Wagons for "DESEC" + DESEC
- MFS wagons

Central workshop "Zaprešić" deals with control inspections, repairs and revisions of the strategic mechanization of the RH which includes: ballast cleaning machine (RM-76, PA 500) ballast tamper (08-16, 08-16 SP,08-275, 08-32U, 08-475/4 S, B-85, 09-3X) ballast profiling machine (USP 3000C, PSD-RGL, USP 2005)





Its main activity is to maintain railways, track-side objects and level crossings, reconstruction and construction of regular and industrial railways, and machine maintenance of tracks and track areas.

RAILWAY MAINTANENCE Business Division





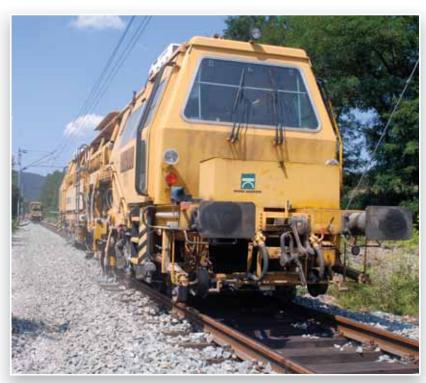






Two-way excavator

In addition to its main activity, Railway **Maintenance Business** Division is involved with construction and maintenance of industrial railways and tracks, construction of concrete ties, construction and maintenance of crane ways, installation and maintenance of railway turnouts on sleepers or in concrete, drafting internal regulations for industrial tracks and regular measurement of industrial tracks and turnouts.



Ballast tampers

Track area maintenance consists of mobile crews engaged in the mechanical and manual clearing of vegetation in the structure gauge and track area, chemical treatment of vegetation with back sprayers and two-way UNIMOG vehicles, snow-clearing and fire protection measures.

The organizational units of the Track Maintenance Business Division are Track Maintenance, Machine Track Maintenance and Track Area Maintenance

The machine maintenance of the railway consists of three mobile work sites which perform the activity of machine regulation of tracks, turnouts and level crossings, machine maintenance of the ballast prism, as well as machine sleeper replacement.



Slope stabilisation at Kalvarija Tunnel







COMMON SERVICES Business Division

The main task of the Common Affairs Department and the Management Board Office is to integrate different operations within the company Pružne građevine such as legal and economic operations, personnel affairs, internal audit, procurement and sales, occupational health and safety and traffic security.

In addition, the Common Affairs Department is also responsible for the implementation of the train drivers training policy at its of authorized centre in accordance with the decision of the EU Commission and the authorization of the Croatian Security Agency.

Several excerpts from the References for the period between 2013 and 2019 and special items

45212-400-1111/09, HAC d.o.o.

Construction of the Zagreb-Sisak motorway, section Velika Gorica

of the water supply and sewerage system for the period 2010-2015;

References

Completed works in 2013, 2014, 2015 and 2016

Regular maintenance of the superstructures and substructures of

Chemical treatment of the railway belt of the HŽ railway lines by double-rail vehicle (2015, 2016);

section Daruvar-Maslenjača (2014-2015);

section Maslenjača-Đulovac (2014-2016);

turnouts on ties or on concrete beddings;

Rehabilitation of the Solin Luka railway station;

2013 - 2019

of the water supply and sewerage system for the period 2010-2015; 45212-400-285/12, HAC d.o.o.

Construction of the Zagreb-Sisak motorway, section Velika Gorica South — Lekenik, subsection Buševec - Lekenik, from km 9+000

Electric Traction System Replacement Projects (ISEV) (Overhead Contact System: Moravice - Rijeka - Šapjane and Škrljevo - Bakar) for the period 2010-2015;

156/14 Development of the Tovarnik railway station terrain;

106/14 Replacement of bridge construction materials on the "Sava"

Border railway line;

protective layer for rehabilitation of the State Border - Botovo Border 2014-2015;

General overhaul for the adjustment of the facilities of the overline, section Križevci – Koprivnica;

ailway line, section Zagreb Borongai — Dugo Selo:

Installation of signalling and safety devices, trench excavation and laying of power cables and PHD pipes and installation of

Harmonization of the overhead contact network and signalling and

main railway station railway line, section Greda - Turopolje; Harmonization of the railway signalling and safety devices and the railway line, section Greda-Turopolje;

the overhaul of the Greda-Turopolje railway line;

npjane and Škrljevo-Bakar railway line; tion of distribution telecommunication

signalling and safety devices and telecommunication equip-

Rehabilitation of foundations and anti-corrosion protection of

2016 - 2019

38/SWb/14-15 SWIETELSKY G.m.b.H.

stective layer for rehabilitation of the State Border - Botovo –

420/13 Upgrade of the Zagreb — Rijeka railway line, section Moravice — Skrad, 2013 — 2016;

ravice — Skrad, 2013 — 2016; echanical cleaning of the railway belt for the I quarter of

21/16 Regular maintenance of civil engineering and electrical engineering infrastructure subsystems of the HŽ railway lines

railway line tracks by double-rail vehicle;

57/16 Rehabilitation of the railway tracks in the Ivan Zajc street

58/16 Rehabilitation of the retaining wall of the M604 Oštarije -Knin - Split railway line from km 217 + 300/500:

Rijeka railway line, 61_L — Gornje Draževo Cut (left) (HŽ

80/16 Upgrade of cuts on the M202 Zagreb main railway station -

81/16 Upgrade of cuts on the M202 Zagreb main railway station Infrastruktura d.o.o.);

Infrastruktura d.o.o.).

86/16 Upgrade of cuts on the M202 Zagreb main railway station -

- 11/17 Regular maintenance of the railway tracks superstructures

- 42/17 Upgrading of the Ljubošina bridge at km 542+931 of the M202 Zagreb main railway station Rijeka railway line (HŽ
- truktura d.o.o. 2017):

- railway stations such as Erdut, Tovarnik, Slavonski Šamac and
- Metković with the aim of implementing the Schengen acquis communautaire outdoor railings and lighting;

 87/17 Rehabilitation of the Sesvete, Resnik, Draganić, Črnomerec, Podsused works, Karlovac Kamanje railway track 2017-2018;

 82/17 Upgrade of side cuts on the M604 Oštarije railway line;

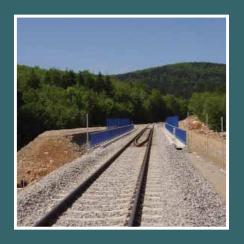
 100/17 Works on the railway tracks superstructures and substructures in 2017 NS ZG, ST, SI. Brod and VK;

- 55/18 Terrain development under the management of HŽ Infras-
- 72/18 Upgrade of the "Gradusa" bridge at km 353+932 on the
- 78/18 Dubrava Zabočka, platform upgrade, construction of access

- M104 Novska Tovarnik State Border railway line.

List of Companies Using Our Services





Work on the line Velika Gorica - Turopolje

HŽ-INFRASTRUKTURA d.o.o.

HŽ-CARGO d.o.o.

HŽ-PUTNIČKI PRIJEVOZ d.o.o.

SWIETELSKY Baugesellschaft m.b.H.

OVV d.o.o.

AGIT d.o.o.

RŽV Čakovec d.o.o.

PLINACRO d.o.o.

ĐURO ĐAKOVIĆ HOLDING d.d.

HEP PULA d.o.o.

LUKA SPLIT

LUKA ŠIBENIK

Lučka uprava Rijeka

Lučka uprava Ploče

TANKERKOMERC d.d.

NAŠICECEMENT d.o.o.

PALIR d.o.o.

TEHNO-ELEKTRO

GIRK KALUN

CEMEX d.d.

LEONHARD MOLL

TRGOGRAD PAVIĆ d.o.o.

JAKA d.o.o.

ADRIATICA DUNAV d.o.o.

HRVATSKI DUHANI d.d.

OPĆINA JOSIPDOL

SOJARA Zadar d.d.

UNIVERZAL d.o.o.

TANG TVORNICA ALATA d.d.

CENOZA PROMET d.o.o.

OCTOPUS d.o.o.

PRANJIĆ d.o.o.

PZ ORLOVAČA

ALTPRO d.o.o.

CESTAR d.o.o. SPLIT

DALEKOVOD d.d.

GRAD OGULIN

GP KRK

INA INDUSTRIJA NAFTE

HRVATSKE CESTE

SŽ - ŽELEZNIŠKO GRADBENO

PODJETJE I JUBI JANA d.d.

RUDAR d.o.o.

VIADUKT d.d.

UNIJAT-M d.o.o. PRIJEDOR

Strategic mechanization

Mechanization Business Division has 8 workshops in the Republic of Croatia. The central workshop is located in Zaprešić. Some of these machines are ballast prism cleaning machines, ballast tampers, ballast prism maintenance machines, gantry cranes, individual sleep-

er replacement machines and railway turnouts replacement machines.

Pružne građevine d.o.o. has a total of 55 strategic mechanization machines, forming a solid machine fleet that is able to do major work on the railways.



Cyclic-action 2-sleeper tamping machine for tracks



Location and address

Company registered in the Court Registry of the Commercial Court in Zagreb, Međimurska 4, 10000 Zagreb, Croatia

President of the management board: Pero Semren, M.Sc.T.E.

Members:

Željko Mihaljević, M.Sc.T.E. Zvonko Perčin, M.Sc.C.E.

Share capital: 63,898,200.00 kn

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IBAN: HR8123600001102394115

PIN: 34601781192 CRN: 080416334 Phone: +385 1 37 02 301, +385 1 39 09 310,

Railway Telephone System Number:

Fax: +385 1 45 77 726 Email: prg@prg.hr



Railway Maintenance Business Division

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Concrete and Steel Constructions Business Division

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Posit Business Division

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BF Railway Line Overhaul (Business Field)

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Fax: + 385 (0)1 457 7726

Mechanization Business Division

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