

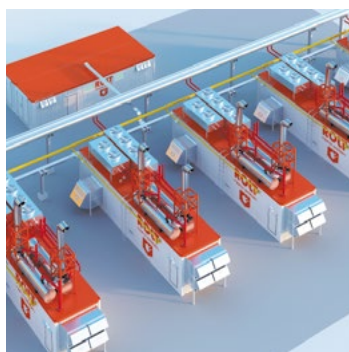


QR-code («Quick Response») — this is a two-dimensional barcode that provides information for quick recognition using a mobile phone camera.

**THE ORDER OF USE:**

- Take a mobile phone with a camera;
- Point the camera lens at the code;
- Go to the website **ROLT.RU**

**ROLT**  
H O L D I N G



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P O W E R M A N A G E M E N T

2 0 2 2

# PRODUCTION HOLDING COMPANY ROLT GROUP



ROLT GROUP is a multifunctional engineering and production association specializing in the complex projects implementation in the field of energy supply and energy management. The holding company includes manufacturing, engineering and service enterprises, united according to the principle of vertical integration.

If we look back today, we can say that all steps in ROLT group developing on the Russian market were historically justified.

Every new project is a challenge for us and one more opportunity to prove that we are not just good at performing our work but that we do it scrupulously and better than others! Each new step advanced us to the proud status of experts. But that is now and back in the days...

When in the early 2000s we just started, it was clear that to achieve the required level of the company stability, it was necessary to set up a real production line. If the economy does not have a solid production line base for material products manufacturing, it is doomed to be constantly dependent on the various external impacts.

Then we focused our activities exclusively on small distributed energy and as a goal we set the creation of the perfect product - modular power plant that entirely corresponded to our clients' needs and even excelled them, and its series production launching.

To fulfill this goal we obtained production site in Kolomna (Moscow region), equipped it with the most modern facilities, hired the most experienced personnel. Our development strategy was already determined at the stage of production launching.

The first step to achieve the leading positions on the Russian market was the implementation of our program that was developed to provide the perfect quality of our product.

In our stations we took into account practically all complications that might occur during their transportation, commissioning and above all else during their operation.

Our determination and consistency in achieving the goals have produced the results! Nowadays the products under the trademark ROLT have become the reference to qualitative packaging and constructive solutions that are highly appreciated not only by our clients but also by our European colleagues.

These first steps formed the base for our more important mission.

At the same time we were systematically developing our technology and production bases with the purpose to assert ROLT as an innovative platform.

Such platform that unites design competences and implementation of the complex high-tech projects which include a considerable intellectual component and thus gives us ground to talk about Russian Engineering.

Just so – with the capital letter. And it must be said that we are not far from it.

We have formed up an ideal model of corporate group in general. The structure of the corporate group with vertical integration enables us to fulfill the complete production cycle during implementation of the complex engineering projects- from design documentation drawing up and equipment manufacturing at our own plant to commissioning and further service maintenance.

From the very beginning we have been relying on our personnel. Now in each company of our group works a team of accomplished executives. And as you know, the talent always exceeds the limits of its responsibilities and looks for non-typical solutions. The necessity and the ability to respond to the market changes, to introduce innovative products and technologies form the base of our success. And thanks to our reliance on the personnel, our focus on results and the opportunity of vertical and horizontal rotation, we can react

to the changes. Thus we open new directions which become platforms for the new talents cultivation.

Nowadays there are six of us. Six companies that develop and produce, design and build, finance and manage. We manage different energy forms – electricity and heat using various sources - hydrocarbon, sunlight, wind and the creative potential of our team. We manage the power!

President of ROLT group  
Ignatiev S.S







## SMALL ENERGY

- Design and construction of energy facilities
- Production of modular packaged mini-CHPs (Combined Heat and Power plants) and switchgears
- Manufacture of electrical equipment
- Energy audit and pre-project inspections
- Integrated setup and commissioning of energy facilities
- Service and operation
- Generating equipment leasing
- Repair and leasing of turbochargers for gas engines
- Supply of engine oils and antifreezes for GEPP (Gas Engine Power Plant)

## PRODUCTION OF MODULAR PACKAGED BUILDINGS

- Manufacturing of metal structures
- Modular buildings for industrial facilities
- Modular packaged for technological equipment
- Manufacturing of block-boxes

## LOGISTICS

- Trucking
- Railcar storage
- Cargo receipt and shipping
- Nonmetallic materials sales
- Warehouse services
- Cargo sorting and handling
- Cargo customs clearance





# OUR HISTORY

## 2022

### TODAY ROLT GROUP IS:

- 6 companies in the field of small energy, logistics and modular construction;
- 9 offices in key regions of Russia;
- 20,000 sq.m. of total production area in Kolomna, Moscow region
- over 802 MW total capacity of commissioned facilities;
- 40 power facilities under maintenance;
- rental fleet of gas engine power plants (GEPP) reached 25 MW;
- 7 commissioned facilities with a total capacity of over 250 MW.

## 2021

ROLT is actively developing in all key areas of the holding: production, rental and service. New contracts for the construction of power plants for industrial enterprises with a total capacity of more than 17.5 MW have been signed.

The active development of energy services continues. There are 20 energy service contracts with a total capacity of over 50 MW at various stages of implementation. The rental fleet warehouse is equipped with generator sets with a total capacity of 15 MW for the prompt implementation of new projects.

The milestone event was opening of a new workshop for the repair of ABB, KBB, Garrett, PBSturbo turbochargers for gas reciprocating generator sets. The newest high-precision Schenck RoTec machines, as well as the necessary equipment to bring the condition of turbochargers closer to the reference factory are located at the area of 500 sq. m

## 2020

ROLT develops energy services in Russia and concludes 3 new energy service contracts in Taganrog, Tver and Smolensk.

## 2019

ROLT signed the contract for the design and supply of equipment with LLC EKA-INVEST energy center, which will provide Tominsky mining and processing plant with electric power. The power plant capacity will be 207 MW, this is the largest small-scale energy project not only for ROLT, but also for Russia.

## 2018

At the end of 2018, the company completed a large-scale reconstruction of its main production site in Kolomna (M.O.) with the commissioning of 2 new assembly shops and a new logistics center for non-metallic products handling with an area of 14,000 sq. m., thus, the total production area of the Group is 20,000 sq. m.

## 2017

Second stage of commissioning of JSC Mikheevsky mining complex (Russian Copper Company) with a total capacity of 77.4 MW. The total energy capacity of objects in round-the-clock operation of ROLT exceeded 250 MW.

## 2016

The new production and logistics complex has been officially put into operation. All production facilities, service infrastructure, warehouses for finished products and components have been moved to a new site.

## 2015

ROLT group establishes as a holding company with the headquarter in Moscow. ROLT becomes the official service partner of the largest European manufacturer of gas engine and diesel units – MTU onsite energy.

## 2014

ROLT establishes partner relations with Russian Copper Company that has taken a decision to build power centers for its enterprises power supply in Chelyabinsk, Sverdlovsk and Orenburg regions. To manage these projects ROLT sets up regional offices in Yekaterinburg, Chelyabinsk and Orenburg.

## 2013

ROLT group wins an open tender for power equipment operation, service maintenance at JSC «Novosibirskneftegas» oil fields. According to this contract ROLT group takes into operation 32 units of equipment with total capacity over 40 MW. The first energy service contract is signed.

## 2012

At the exhibit area “NEFTEGAS-2012” ROLT officially presents its modular reciprocating power station ROLT PSG 1200 with heat recovery system and in 2013 – ROLT PSG 2000 with heat recovery system.

## 2011

A long-term contract for service maintenance and generating, drilling and compressor equipment operation is signed with ZAO “Rusburmash” (drilling for uranium-mining wells).

## 2010

ROLT signs the contract for manufacturing supply and commissioning of 40 modular gas reciprocating and diesel power stations with total capacity over 35 MW for Alliance Oil Company (Pechoraneft')

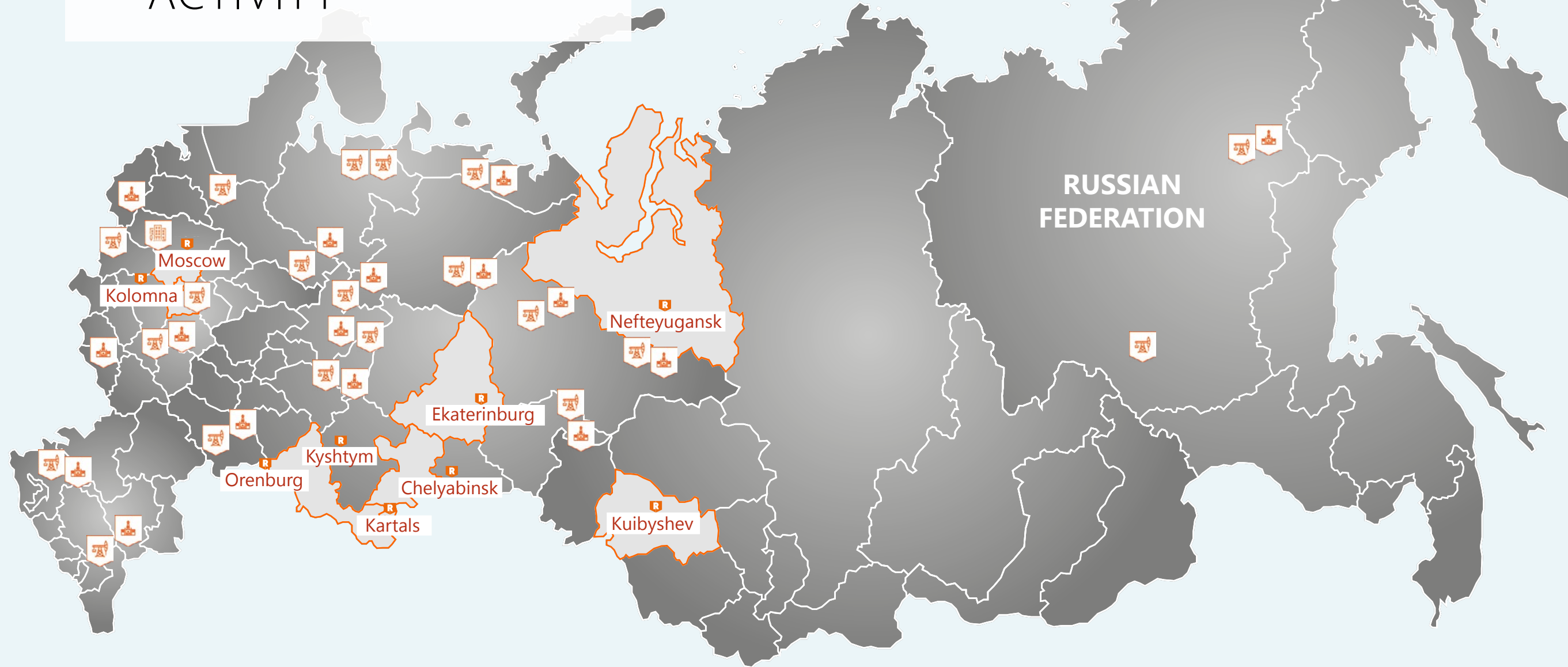
## 2009

In Kolomna (Moscow region) the plant is set up. Modular power stations with the capacity of 300–2000 kW are manufactured. The contracts for power supply works of 34 state projects in the Sakha Republic (Yakutia) are signed.





# GEOGRAPHY ACTIVITY



## ■ ALL-IN-ONE

Design, production, construction, installation, commissioning, service, operation.

## ■ OWN POWER STATION PRODUCTION

With an area of 20,000 square meters in Kolomna.

## ■ BASED ON THE WORLD'S LEADING MANUFACTURERS

MWM, MTU, Jenbacher (INNIO), Caterpillar, Rolls-Royce, Wartsila, Cummins

## ■ PRACTICE

More than 802 MW of commissioned capacities, over 500 MW under maintenance and operation, more than 90 successful projects.

## ■ RELIABILITY AND STABILITY

Since 2003 on the market, more than 600 employees, own production and logistics assets.

## ■ RUSSIA AND CIS COUNTRIES

9 ROLT offices, production site in Kolomna, Moscow region





# SIGNIFICANT PROJECTS AND FACILITIES UNDER OPERATION

**802,000 kW**

Total electric power of commissioned facilities is more than 802,000 kW.

## GAS ENGINE COGENERATION PLANT OF TOMINSKY MINING COMPLEX

Region: Chelyabinsk region

Object: Industrial plant

Total electric power:

22 x Rolls-Royce B35: 40V20AG2 = 207,042 kW

Execution: building

## VERKHTARSK OIL FIELD

Region: Novosibirsk region

Object: Industrial plant

Total electric power:

Cummins, Caterpillar, Jenbacher, Waukesha = 40,000 kW

Execution: container

## GAS ENGINE COGENERATION PLANT OF MIKHEEVSKY MINING COMPLEX

Region: Krasnoarmersky settlement, Chelyabinsk region

Object: Industrial plant

Total electric power:

18 x ROLT PSG 4000 = 77 400 kW (MWM TCG 2032V16)

23 x ROLT PSG 4000 = 98 900 kW (Caterpillar CG260-16)

Execution: building

## UNTYGEISK OIL FIELD

Region: Khanty-Mansiisk autonomous district

Object: Oil industry

Total electric power:

Cummins, Jenbacher, Waukesha over 14,000 kW

Execution: container





# PRODUCTION AND LOGISTICS CENTER

ROLT GROUP is a Russian company with a full production cycle for power plants packaging.



## CAPACITY

Location	Kolomna, Moscow Region
Territory	11 ha
Workshop area	20 000 m <sup>2</sup>
Warehouse area	7000 m <sup>2</sup>
Finished products warehouse	1000 m <sup>2</sup>
Technical Engineering personnel	23 people
Number of employees	More than 100 people
Simultaneous packaging of gas engine and diesel power plants	25 units

## More than 802 MW of commissioned capacities

Here the main capacities of Kolomesky plant of process equipment are located, **ROLT electric systems**, **ROLT energy service** central service base and spare parts storehouse, and also main **ROLT trans** and **ROLT rent** storage capacities.

In the office building are located: Project Bureau, R&D department, Purchasing department, Stock Accounting department, Quality Control department, Occupational Health and Safety department, Chief Power Engineer and Chief Process Engineer Services, etc.



## More than 90 projects in the field of distributed generation.

The capacity of ROLT GROUP allows simultaneous production of more than 25 GEPP, Packaged Transformer Substations under ROLT trademark.

The enterprise is fully equipped with modern process equipment including: 10-35 t beam cranes, welding jibs, processing machines, painting booths, non-destructive testing laboratory, electrical laboratory, test beds, etc.

The industrial park location is extremely favorable. The distance between Kolomna and Moscow is 100 km.





# SMALL ENERGY



Four manufacturing, engineering and service enterprises of ROLT GROUP are united according to the principle of vertical integration; they solve the problems of Customer's facilities continuous supply anywhere in Russia and the CIS countries.

The company has achieved a leading position in the small energy market due to an integrated approach to solving problems, its own production of power stations, after-sales service and technical support.

## PRODUCTION

- Modular packaged mini-CHPs (Combined Heat and Power)
- Switchgears
- Electrical equipment

## COMMISSIONING

- Integrated setup of energy facilities

## AUDIT

- Energy audit
- Technical audit

## LEASING

- Power equipment
- Turnkey energy complexes

## AFTER-SALES SUPPORT

- Service
- 24/7 operation
- Major, minor and unit repairs
- Supply of spare parts

## DESIGN, CONSTRUCTION

- Power facilities and complexes
- Construction compliance monitoring





# PRODUCTION OF MINI-CHPS



ROLT GROUP offers services in the field of energy supply: from the design documentation development by its own design bureau and manufacturing to putting equipment into industrial operation.

The pride of ROLT GROUP is its own production facilities located in Kolomna (Moscow region), where up to 25 modular gas engine and diesel generator units under the trademark ROLT PS are simultaneously packaged.



## GAS ENGINE POWER PLANTS

More than 90 successful projects over 802 MW have been implemented

ROLT carries out packaging and delivery of modular GEPPs, using its own design solutions, which allows us to deliver both fully complete containerized GEPPs and open-type GEPPs for quick installation indoors.

An important feature of ROLT PS GEPP is that, regardless of the version, each GEPP is a ready-made design solution.

This means that the customer is guaranteed to receive a complete prefabricated unit, installation and commissioning of which will not require much time.

We have developed basic container design solutions for engines from leading world manufacturers in the range of unit power from 0.8 to 2.5 MW.

## EACH BASIC SOLUTION INCLUDES:

- power plant shell;
- gas supply and gas safety system;
- engine cooling and heat recovery system;
- exhaust system;
- heating and ventilation system with noise control;
- oil supply system;
- electric lighting, power electrical equipment, fire alarm system and fire fighting;
- complex automation system;
- the unit itself.



## HEAT RECOVERY SYSTEMS (HRS)

Increasing fuel efficiency to over 90%

ROLT manufactures Heat Recovery Systems (HRS) for diesel and gas engine power plants. They can be applied for hot water, steam, cold (trigeneration) production or in industrial processes involving a large amount of thermal energy. HRS use allows to increase the total efficiency of the unit up to 90% and thereby to reduce the cost recovery period of the entire project.





# GAS ENGINE POWER PLANTS (GEPPS) OF ROLT PSG



- High prefabrication
- Minimum terms of installation and commissioning
- Unit capacity of installations in a container from 800 kW
- Cost of electricity is up to 2,5 rubles per kW/h inc. VAT
- Free heat energy (HRS option)
- Cost recovery period up to 2 years
- Possible leasing

## ROLT PSG CONTAINER POWER PLANT EQUIPMENT

### Basic systems:

- Gas engine generator: MWM, Jenbacher, Caterpillar, MTU.
- Heat Recovery System «HRS» (additional option).

### Auxiliary systems:

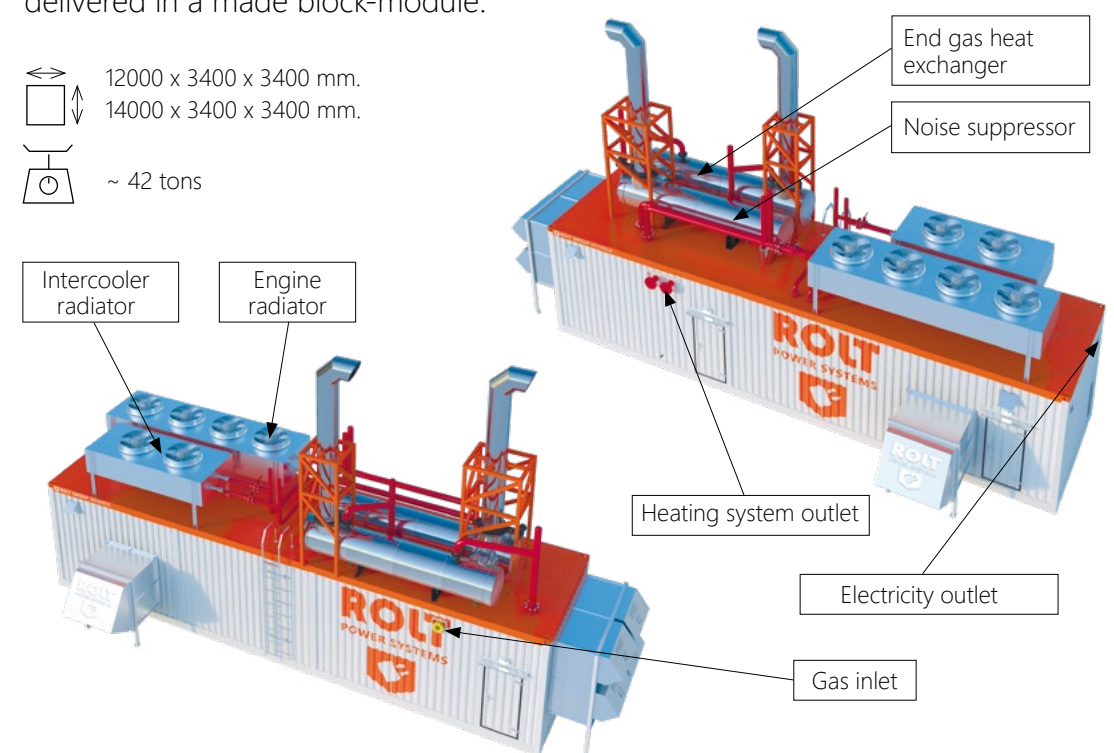
- gas supply system;
- cooling system;
- exhaust system;
- power supply and control system;
- lighting system;
- heating, air supply and ventilation system;
- oil system;
- gas contamination control and alarm system for products with GPU (gas-pumping units)
- starting system;
- fire safety and security alarm system;
- control cabinet of gas engine generator unit (CC);
- control panel for auxiliary supply (CPAS);
- power cabinet (PC);

## CAPACITY RANGE

- from 800 to 2500 kW when delivered in one module, and up to 4000 kW when delivered in a made block-module.

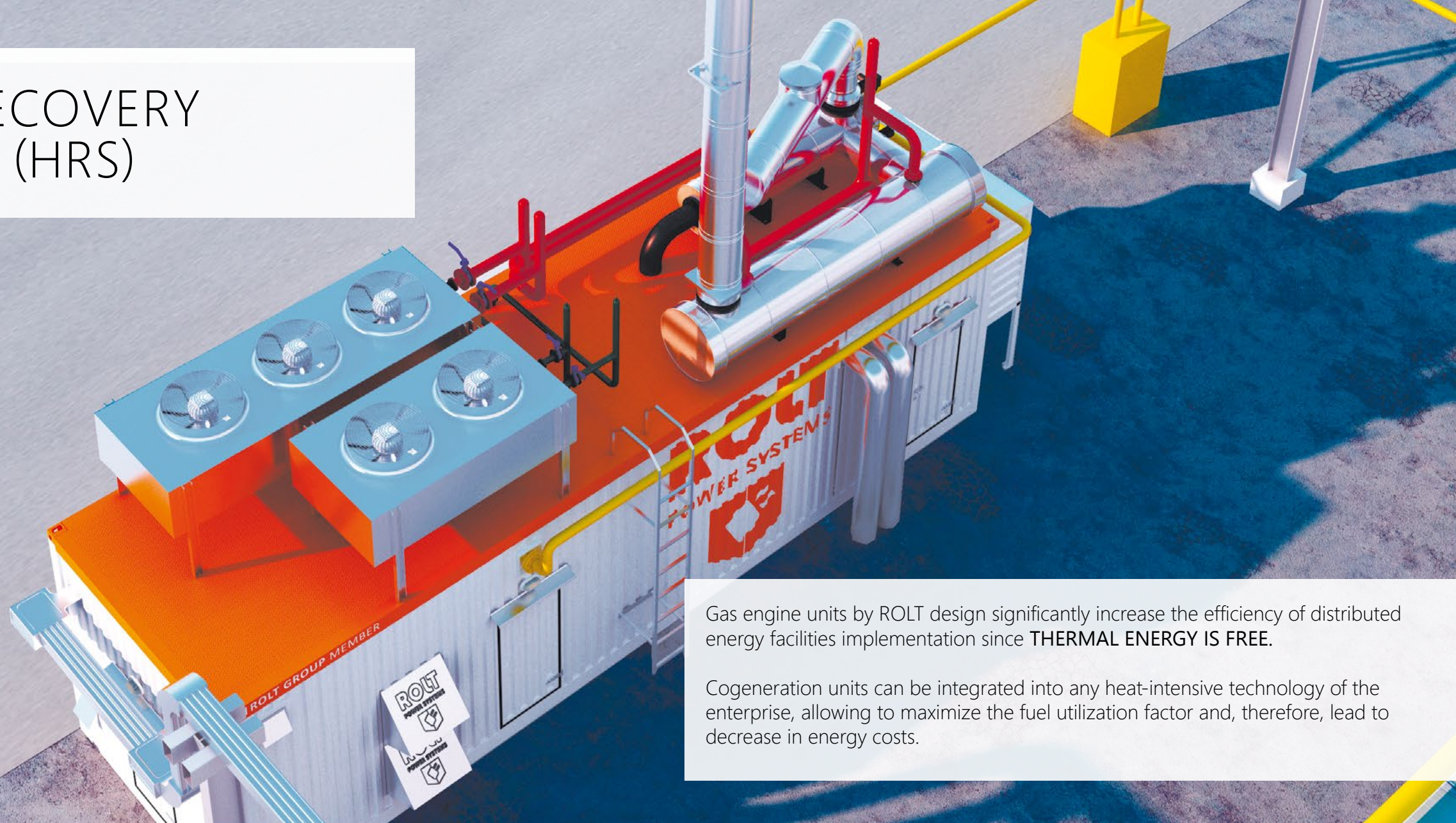
12000 x 3400 x 3400 mm.  
14000 x 3400 x 3400 mm.

~ 42 tons





# HEAT RECOVERY SYSTEM (HRS)



Gas engine units by ROLT design significantly increase the efficiency of distributed energy facilities implementation since **THERMAL ENERGY IS FREE**.

Cogeneration units can be integrated into any heat-intensive technology of the enterprise, allowing to maximize the fuel utilization factor and, therefore, lead to decrease in energy costs.

## ROLT PRODUCES HEAT RECOVERY SYSTEMS (HRS) FOR GAS ENGINE POWER PLANTS

Heat recovery systems (HRS) use can significantly increase the overall efficiency up to 90% and reduce the cost of heat generation.

Heat can be applied for hot water, steam, cold (trigeneration) production or in industrial processes involving a large amount of thermal energy.

Most often heat recovery systems are equipped with gas mini-CHPs, but ROLT has implemented several projects in the northern regions (particularly, in the Republic of Sakha (Yakutia)), where

cogeneration systems were installed on diesel generators that use liquid fuel.

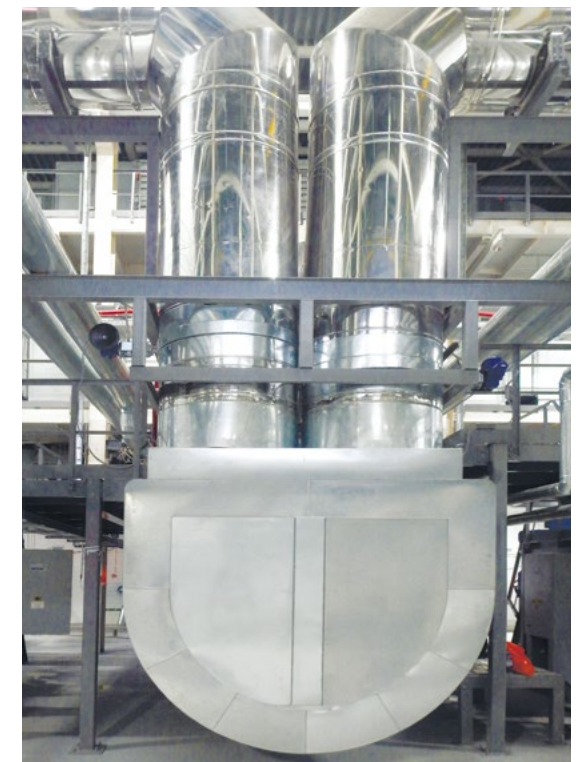
The main advantages of cogeneration cycle of gas engine and diesel generator units operation (in comparison to a simple cycle):

- cogeneration units allow to increase fuel efficiency up to over 92% (fuel efficiency);
- the cost of heat energy is minimal;
- gas mini-CHP ensures high environmental values;

- independence from heat suppliers;
- no need for long heating lines;
- minimum level of heat losses (no more than 1%) in comparison to heating networks, where losses reach 12-15% of transmitted power.

In combustion engines the following sources of thermal energy are available for beneficial use:

- exhaust gases from combustion engine;
- high-temperature circuit (cooling of engine jacket, cylinder heads, as well as the first stage charge air).





# OPERATION AND SERVICE

ROLT GROUP provides services in the field of operation and maintenance of power equipment and power grid facilities for customers. Thanks to a modern production and technical base and qualified personnel, we consistently maintain a high level of service.



## 24-HOUR OPERATION

More than 250 MW of generating equipment is in operation simultaneously.

Reducing owner operating costs by 25% in 7-8 months | 24/7 mode.



## COMMISSIONING AND PUTTING INTO OPERATION

ROLT specialists have carried out over 50 successful commissioning works at more than 40 sites.

Several hundred pieces of equipment were put into operation.



## MAINTENANCE

Over 40 objects are on permanent or periodic maintenance by ROLT.

Full compliance with the manufacturer's regulations.



## SPARE PARTS SUPPLY

More than 6,000 items of spare parts in the central and regional warehouses.

Modern technical base | Spare parts warehouses | Deliveries from plants



## MAJOR AND MINOR REPAIRS

Major and restoring repairs of powerful industrial combustion engines (CE) (over 1 MW).

Certified Staff | 7 regional offices



## INDUSTRIAL TURBOCHARGERS REPAIR

Gas engine and diesel power plants from 500 kW ABB, GARRET, KBB, PBS Turbo (Man Diesel & Turbo)

Standard warranty period for turbocharger repair is 12 months.





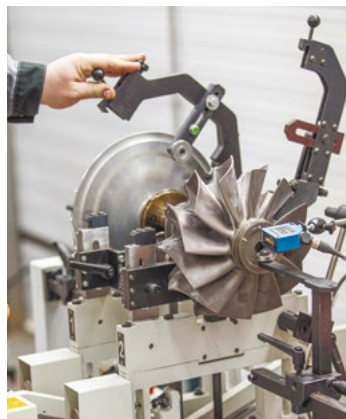
# REPAIR AND LEASING OF TURBOCHARGERS

ECONOMY UP TO 90%  
of a new turbine cost

ROLT energy service carries out major and minor repairs of industrial turbochargers for gas engine and diesel power plants from 500 kW.

## MAJOR AND MINOR REPAIRS

- Resource recovery - economy up to 90% of a new turbine cost;
- Turbochargers for rent - a new service!
- Exchange fleet of turbochargers - no investments and downtime;
- Full cycle of repair work at our own production;
- Used turbochargers off-take;
- Warranty for the repaired turbocharger - 12 months.



## MAINTENANCE TURBOCHARGER BRANDS

**ABB**

- ABB  
serial number A130...155-M/H  
serial number RR131...221  
serial number TPS48...61-D/E  
serial number TPS44...61-F

**KBB**

- KBB  
serial number HPR



**Garrett**  
ADVANCING MOTION

- GARRETT, applied at gas and diesel engines of Caterpillar and Waukesha trademarks

**PBS turbo**

- PBS Turbo (MAN Diesel & Turbo)  
serial number TCR (TCR10...22)  
serial number NR (NR12...34)



# EQUIPMENT OF A TURBINE REPAIR WORKSHOP

New workshop area is 500 m<sup>2</sup>



## NEW EQUIPMENT FOR IDEAL REPAIR MAINTENANCE

Cleaning section, shaft balancing section, locksmith's section, QC section and spare parts warehouse are located on 500 m<sup>2</sup> areas. For high-quality repairs new equipment and tools are used:

- balancing machines by SCHENCK RoTec trademark for balancing rotors weighing up to 100 kg;
- screw-cutting lathe;
- universal milling machine;
- circular and surface grinding machines;
- inspection devices for whipping;
- blasting and sandblasting chambers;
- hydropneumatic press;
- lifting devices;
- accessories for disassembling and assembling turbochargers and assemblies;
- ultrasonic bath;
- microclimate for quality control and shaft balancing.





# REPAIR OF CYLINDER HEADS

ECONOMY UP TO 50%  
of a new cylinder head cost

ROLT specialists carry out full or close to full restoration of cylinder heads reducing the cost of major and minor repairs.

## REPAIR OF CYLINDER HEADS

- Repair of the cylinder head to the state of «new» - economy up to -50%;
- Full range of works at our own facilities (defecting, milling, turning, non-destructive testing methods, etc.);
- Original spare parts;
- Various Trade-In programs (Exchange, Reman);
- Warranty period for work performed is 12 months.

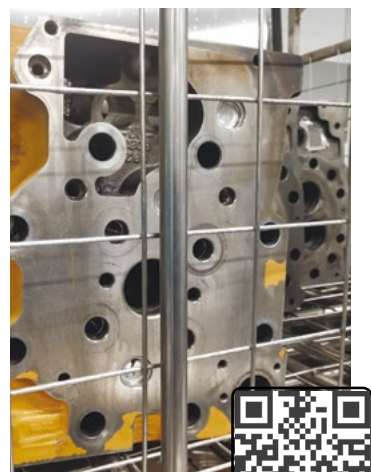
## CYLINDER HEAD OF GAS ENGINE EQUIPMENT REPAIR

Jenbacher, MWM, MTU, Caterpillar, Waukesha, Perkins, Cummins и др.

## EQUIPMENT OF CYLINDER HEAD REPAIR WORKSHOP

The workshop is equipped with all the necessary equipment and tools for carrying out a full range of repair works:

- screw-cutting lathe;
- universal milling machine;
- circular and surface grinding machines;
- inspection devices for whipping;
- blasting and sandblasting chambers;
- furnace;
- ultrasonic bath;
- hydropneumatic press;
- lifting devices;
- equipment for cylinder head repair of own production;
- tilting unit.





# ENGINE OILS SUPPLY

High quality engine oils with extended drain intervals for gas engine and diesel generators operating on natural gas, oil-well gas and biogas. Compatible with end gas converters.

## OIL FOR GAS ENGINES

High-viscosity index base oils of I and II groups, resistant to oxidation and nitration, for gas engine and diesel power plants:

- Jenbacher
- Waukesha
- Caterpillar
- Cummins
- MWM
- MTU Onsite Energy
- GUASKOR
- FG WILSON
- PERKINS

## ONLY LEADING OIL AND ANTIFREEZE MANUFACTURERS

- Gazpromneft-SM
- Shellneft
- Lukoil
- Total Vostok
- Tosol sintez (BASF/ AWM)
- Technoform

## ADVANTAGES

- Supply experience over 15 years;
- From manufacturers' storage;
- Original quality;
- Favorable price conditions.





# SERVICE AND LEASING



## ADVANTAGES OF ENERGY SERVICE CONTRACT:

- Cost saving for electricity up to -30% and for heat up to -50%.
- You pay only for kWh;
- No capital and operating costs;
- Fixed, agreed cost of kW/h;
- Lease terms are individual and are stipulated in the contract,
- Customer provides only the site;
- Power park is developed according to the customer needs;
- Operation is implemented by ROLT specialists or jointly.

ROLT offers profitable solutions for equipment and turnkey complexes leasing, including gas engine and diesel power plants, substations, switchgear and other auxiliary equipment.

## TERMS AND CONDITIONS OF ENERGY SERVICE CONTRACTS

- Equable electrical energy during the day (drops of no more than 50%)
- Availability of gas at the enterprise or possibility of connecting it
- Electricity going rate from external networks is above 5 rubles per 1 kW/h
- Heat requirement increases efficiency.

## ECONOMIC EFFECT OF ENERGY SERVICE CONTRACT

Provided that electricity consumption is equable throughout the day and network rate is higher than 5 rubles with VAT (4.17 excluding VAT) per 1 kW/h, the economic effect of leasing can be up to 30% for electricity and up to 50% for heat without capital and operating costs on the part of your company.

## APPROXIMATE STRUCTURE OF TURNKEY ENERGY COMPLEX

- Gas engine power plant in block-modular design (continuous operation 24/7)
- Diesel power plant in block-modular design (hot standby 24/7)
- Step-up transformers (0.4 / 6.3 / 10 kV)
- Switchgear (incoming and outgoing sections) for 6.3 / 10 kV
- Cable lines from GEPP / DPP to oil-filled waterproof transformers and switchgears
- Supply tank for diesel fuel (50 m<sup>3</sup> and more)
- Container for spare parts and fuel
- Mobile unit for stuff
- Accommodation wagon for staff

Power plants leasing releases you from capital costs associated with expensive equipment and operating costs associated with energy complex maintenance.





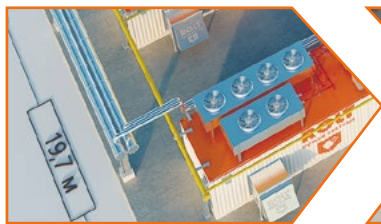
# TURNKEY CONSTRUCTION PROJECTS

## ROLT POWER SYSTEMS



ROLT carries out a full range of works on small power facilities design (mini-CHP and power plants), transformer stations and other power and technological equipment.

### DESIGN



### SUPPLY



### CONSTRUCTION



### INSTALLATION



### COMMISSIONING



### OPERATION



### EPC-CONTRACT

As part of EPC contract between ROLT GROUP and the customer, the enterprises of the holding perform all functions for the full cycle of project implementation and bear all the risks of turnkey facility construction.

The contract covers all the main stages of the construction process: engineering solution development, design, supply of equipment, construction and installation works, supervision activity, commissioning before putting the facility into operation.

A distinctive feature of contractual relationship is a fixed price that does not depend on possible risks of unforeseen costs and expenses.

### DESIGN OF ENERGY FACILITIES

- Preparation of design and detailed documentation;
- Justification of investments into mini-CHP construction.
- Design work includes concept development, approval and examination procedures; release of design and design estimate documentation; supervision over energy and technological facilities construction.

### CONSTRUCTION OF FACILITIES AND COMPLEXES INCLUDES

- Construction and installation works of the facility;
- Integration into the existing infrastructure of the customer's company.





# ELECTRICAL EQUIPMENT PRODUCTION



ROLT carries out design, production, assembly, supply, installation and maintenance of electrical substations, power electrical equipment up to 220 kV, as well as automation and dispatching systems for a wide range of industrial and civil construction projects.



## TRANSFORMER SUBSTATIONS

Transformer substations are containerized with total capacity from 630 to 2500 kVA.

ROLT modular transformer substations are manufactured on the basis of our own site in Kolomna (Moscow region) individually for each client.

Full readiness is a quick start from manufacture to commissioning.



## SWITCHGEARS

Switchgears of 0,4 / 6/10 kV are made from high-voltage units of single-end service assembled chamber

Regular work at temperatures from -60 to + 40C | Protection against single-phase short circuits, overloads | Voltage control, automatic actuation.





# MONITORING AND CONTROL SYSTEMS

ROLT monitoring and control system allows receiving and processing digital / analog signals of monitored parameters of equipment from different manufacturers and with different data exchange protocols (gas engine and diesel generator units (GEGU/ DGU), switchgears, low voltage complete devices, cooling and fuel supply system of gas engine generator units, fire safety, gas control, alarm systems, etc.)



## MONITORING AND CONTROL SYSTEMS

Our own Process Automation System (PAS)

Control system for ROLT PS power plants is based on controllers and additional modules - ComAp, Woodward and Terberg.

Start, stop, pre-start and pre-stop operations are controlled in accordance with GOST 10032-80.

## AUTOMATIZATION IS IN ACCORDANCE WITH GOST 14288-80

"Automatized diesel engines and gas engines. Classification according to scope of automatization".

## PROCESS AUTOMATION SYSTEM (PAS) OF ROLT PS POWER PLANT IMPLEMENTS THE FOLLOWING FUNCTIONS:

- automatic check of GEGU/ DGU for start-up;
- automatic and manual start-up of GEGU/ DGU and fixed load ramping;
- automatic stabilization of the equipment operation set point;
- automatic activation of GEGU/ DGU ventilation system and fuel gas supply stop
- when automatic fuel gas leakage control system is operated by alarms to the
- automated operator position (AOP);
- automatic or remote stop of GEGU/ DGU;
- automatic heating of GEGU/ DGU;
- automatic supply of fuel gas / diesel fuel to GEGU/ DGU;
- GEPP operation in parallel with each other on a common bus with given parameters of active and reactive load distribution between operating units, as well as according to the algorithm of reactive and active load components equal distribution without interrupting power supply to consumers;
- control and parameters output of the operating unit to the computer of the automated operator position (AOP).





# LOGISTICS PARK



ROLT is a modern transport and logistics complex in Kolomna (Moscow region) based on its own cargo terminal. ROLT offers: transportation of goods, including contractual work with companies providing rolling stock, shipping and insurance companies and other participants in the transport market.

ROLT is a guarantor of quality and compliance with the terms and conditions of cargo delivery and acts as a single customer for all transport structures.

## TRUCKING

- Own vehicle fleet;
- Oversized cargo, inert cargo, building materials, metal structures.

## CARGO RECEIPT AND SHIPPING

- Railway;
- Customs clearance (import / export);
- Own railway terminal in Kolomna, Moscow region.

## RAILCAR STORAGE

- Station «Golotvin» (code 233805) in Kolomna;
- Capacity is 1500 carriages;
- 24-hour security.

## SALE OF NON-METALLIC MATERIALS

- Crushed stone;
- Sand;
- Gravel.

## SORTING AND HANDLING OF CARGOES

- Up to 100,000 tons per month;
- Consolidation, rejection, warehouse accounting;
- Delivery of completed orders to end users.

## WAREHOUSE SERVICES

- Storage of goods of A, B, C, D classes;
- Terminal handling services.





# MODULAR CONSTRUCTION PRODUCTION

ROLT specializes in the production of modular buildings, industrial and retail facilities, related construction metal structures. The production facilities located in Vitebsk (Republic of Belarus) with a total area of more than 3000 m<sup>2</sup> allow producing up to 100 standard modules per month.



## DEVELOPMENT AND DESIGN

We offer development and design of both ready-made solutions and individual projects of modular buildings, industrial buildings, retail facilities.

We implement preparation of design and detail documentation with further full support at each stage of the construction. As-built documentation is drawn up in accordance with the established forms and is handed over to the customer with the final acts of work performed.



## PROJECT MANAGEMENT

Construction projects and facilities renovation implementation is carried out by certified specialists who have significant experience in managing projects for construction of technological facilities and communal infrastructure facilities. All types of work from design to commissioning are in the area of responsibility of our specialists.



## MANUFACTURING AND INSTALLATION

We carry out manufacture, supply, assembly and installation of prefabricated buildings of modular type, made of standard block modules or block containers, industrial buildings, warehouses, terminals, retail facilities, related metal structures.

Installation is carried out on our own using our own fleet of special construction equipment and transport, which solve operational logistics issues. The work is carried out in accordance with design documentation, GOST, SNiP and other standards.





# MANUFACTURE OF CONTAINERS, TECHNOLOGICAL AND SWITCHBOARD EQUIPMENT

HRS, flue gas stacks, ventilation systems,  
gas engine units, boilers.

Block containers of our production can be all-welded or with sandwich panels. Our own staff of qualified designers develops non-standard solutions for a variety of tasks.

## WE PRODUCE CONTAINERS FOR DIFFERENT INDUSTRIES:

- **Power industry** (autonomous and standby power supply; generator units; transformer substations (TS));
- **Railway complex** (transformers, condensers);
- **Oil industry** (gas compression, pumping and compressor stations, tank farms);
- **Chemical industry** (air separation units);
- **Construction sector** (inventory mobile modules);

## BLOCK CONTAINER SOLUTIONS (BLOCKS)

- Maximum size of an all-welded container is 16 x 4 x 3.5 m;
- Modular solutions production from multiple containers;
- Design of a container for specific toll equipment and its assembly at the factory;
- Manufacture of block containers for difficult conditions - north, frequent transportation, etc.

## HIGH QUALITY OF OUR PRODUCTS IS CONFIRMED BY:

- materials with quality certificates;
- high-tech tools and special equipment for important operations;
- highly qualified personnel;
- approved suppliers of technological equipment, experience with toll equipment.

Any project of block-modular equipment manufactured by our company has a conformity certificate and is tested according to the developed methodology.

Every project is exceptional.

Block containers are produced according to individual projects.





# GENERAL\* PARTNERS



\*- selected partner companies are represented. Full list can be found on [www.rolt.ru](http://www.rolt.ru)





# CLIENTS\* FEEDBACK



JSC NNG thanks LLC RES personnel for failure-free operation of the power equipment and rapid solving of the set tasks in the first half year of 2015.

Pogrebnyak V.A.



Federal Treasury directorate in the Republic of Sakha (Yakutia) thanks CJSC ROLT Engineering for the installation works performing and connection of the Cummins diesel generator sets in the Departments of Federal Treasury directorate in the Republic of Sakha (Yakutia) to provide their steady power supply.

Temporarily in charge of the Head of Federal Treasury directorate in the Republic of Sakha (Yakutia).

Batyushkina V.I.



Accurate and coherent actions, responsibility for the performed tasks, flexibility in nonstandard situations, ability to work in difficult field conditions, organized logistics – due to all these we can recommend CJSC ROLT Engineering as operation and service partner.

First Deputy General Director

Chief Power Engineer

Kulikovskiy S.V.

Engineering and managerial personnel have shown high professional skills and organization of the performed works. As a result of the performed works the gas engine power center was connected parallel to JSC MRSK-Volga grid. We consider CJSC ROLT Engineering as a reliable and highly professional partner.

Chief Power Engineer

Makarov L.V.



During performing of the works CJSC ROLT Engineering specialists have demonstrated their responsibility and thorough knowledge of the repaired equipment. We would like to mention the high level of training and performing of the works, the availability of the complete set of diagnostic tools, high mobility and operational flexibility of the service specialists.

General Director

Yui Chzhitsin



We recommend ROLT specialists for performing of all types of works and services connected with the distributed generation on the base of the generator sets. We are ready to continue our cooperation with ROLT as within the framework of our program of the power centers power augmentation, and within the framework of working equipment service maintenance.

CJSC EFCO Management company

Production Director

Samchenko K.V.



ROLT manufactured and delivered the equipment, was responsible for supervision and commissioning works, automation and integration of the complex equipment into the distilling plant grid. We recommend ROLT as reliable and highly professional contractor for performing of the power supply works of different levels of complexity and for further service maintenance.

Director of LLC Kondor

Dzabalov V.V.

Now power center operates 24h in parallel mode. Produced electricity is used for power supply of products manufacturing from ferrous and non-ferrous metals, thermal power – for heating and hot-water supply of the office and production buildings. We recommend ROLT as reliable partner in providing of power supply for industrial sites. We are ready to continue cooperation with ROLT regarding the units/ service maintenance.

General Director of LLC Metal-Standard-Group

Barmina L.V.



\* — Full list can be found on [www.rolt.ru](http://www.rolt.ru)



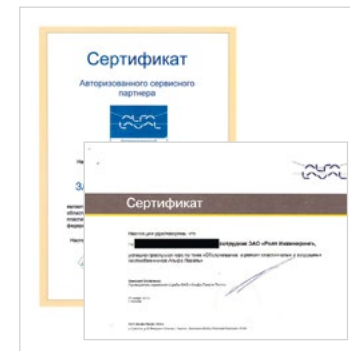
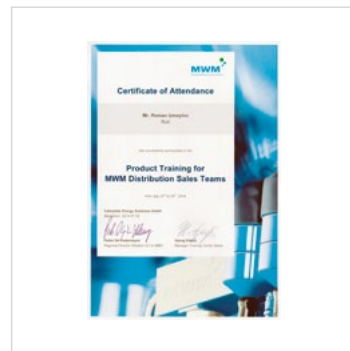
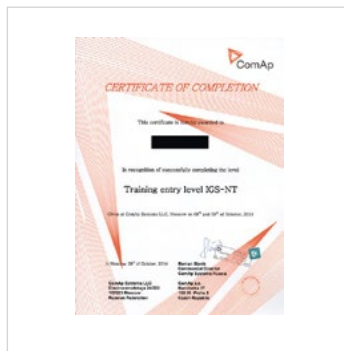


# LICENSES AND CERTIFICATES

## LICENSES



## СЕРТИФИКАТЫ



\* — Full list can be found on [www.rolt.ru](http://www.rolt.ru)

