



## ENGINEERING AND INDUSTRIAL GROUP «ENERPROM»



HYDRAULIC EQUIPMENT  
AND TOOLS

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TECHNICAL  
SOLUTIONS  
FOR ALL INDUSTRIES!

# ENGINEERING AND INDUSTRIAL GROUP «ENERPROM»

## BUSINESS AREAS



BRIDGES, TUNNELS AND  
METRO CONSTRUCTIONS  
AND REPAIR



ENGINEERING



POWER  
(INCLUDING WIRING)



MINING INDUSTRY



OIL AND GAS  
PRODUCTION



METALLURGY  
(FERROUS AND  
NONFERROUS)



RAILWAY  
TRANSPORT



### Moscow

- JSC TKC «ENERPROM»
- JSC NIC «ENERPROM»
- JSC «ENERPROM-ENGINEERING SOLUTIONS»
- JSC «ENERPROM-CENTER»
- JSC «INZHTENGIDRAVLIKA»
- JSC «ENERPROM-RVD»
- JSC «ENERPROM-M»

### Rostov-on-Don

- JSC «ENERPROM-CENTER» -  
ROSTOV – on – DON

### St. Petersburg

- JSC MZ «ENERPROM»
- JSC «ENERPROM-M» -  
ST. PETERBURG

### Yekaterenburg

- JSC NIC «ENERPROM» -  
YEKATERENBURG
- JSC «ENERPROM» -  
YEKATEREBURG

### Novosibirsk

- JSC «ENERPROM-NOVOSIBIRSK»

### Krasnoyarsk

- JSC «ENERPROM»-  
KRASNOYARSK

### Irkutsk

- JSC «ENERPROM»
- JSC «ENERPROM-HYDROPRIVOD»
- JSC «ENERPROM-MIKUNI»
- JSC «MIKEN»

### Khabarovsk

- JSC «ENERPROM» - KHABAROVSK

### Ulsan, Korea

- AK «ENERPROM  
-KOREA»

## BUSINESS AREAS



CHEMICAL  
INDUSTRY



SHIPBUILDING,  
SHIP REPAIRING,  
PORT MANAGEMENT



PULP AND PAPER  
INDUSTRY



COAL AND COKE  
INDUSTRY



LIFTING EQUIPMENT  
(HARNESS  
PRODUCTION)



ROAD  
CONSTRUCTION  
AND REPAIRING



NUCLEAR POWER



## BUSINESS FOR INDUSTRIAL BRANCHES



HYDRAULIC  
EQUIPMENT AND  
TOOLS (70 MPa)



HYDRAULIC PUMPING UNITS,  
HYDRAULIC COMPO-  
NENTS



TEST BENCHES



HIGH PRESSURE  
HOSES. CONNECTING  
SYSTEMS



RAILWAY TRANSPORT  
EQUIPMENT



EQUIPMENT FOR  
TRENCHLESS  
COMMUNICATION  
LAYING



COMPACT  
SELF-PROPELLED  
MACHINERY



EQUIPMENT FOR  
MANUFACTURING  
WIRE ROPES



HYDRAULIC EQUIPMENT  
FOR THE CONSTRUCTION  
INDUSTRY



DYNAMIC HYDRAULIC  
TOOLS. MOUNTED  
EQUIPMENT FOR MOBILE  
MACHINERY. MILITARY  
MACHINERY REPAIR



ELECTRIC TOOLS



RUSSIAN-JAPANESE  
BUSINESS



## «ENERPROM» PROJECTS



Hydraulic equipment «Enerprom» for construction of the bridge to the island «Russkii» in the Eastern Bosphorus Strait, Vladivostok.



Equipment UPT-700 for pushing pipes in tunnel transition for oil products transportation, Krasnodar region



Multipoint system of lifting and lowering roof's frame "Spartak" stadium in Moscow, "Ruby" in Kazan and "Fischt" in Sochi.



Pumping stations of lubrication systems for mining and processing plant, the Khabarovsk region.



System for simultaneous objects lifting and lowering, Republic of Korea.



System for simultaneous lifting of the object for assembling the reactor plant of nuclear power station WWER – 1000, Volgogradsk.



Trenchless pipes laying system UBPT «Horizon» for a governmental project «Oil pipeline «Easten Siberia–Pacific»



Compact pile-driver MSU-800, Moscow.



Specialized wagon – repair system WRS «Vityaz». The customer – «Russian Railways» Inc.



Trenches for carrying out statistical and cyclical, destructive, parametric, research tests, Russia, Armenia, Kazakhstan.



Installation for straightening upper capping frame of gondola wagons UP-2M to «Russian Railways» Inc.

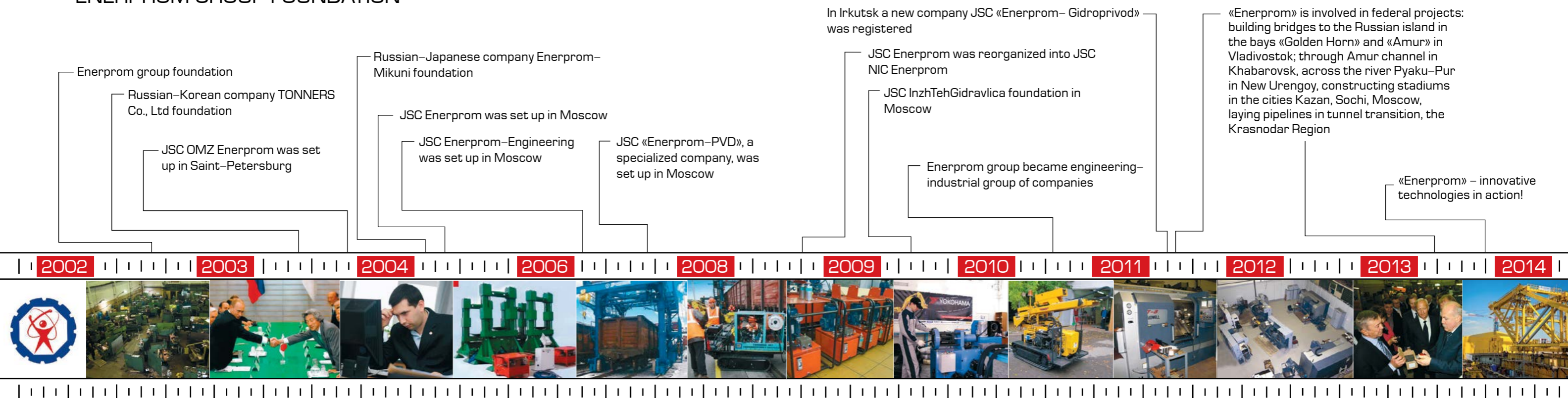


Heavy hydraulic ramps – Marine Facade, St. Petersburg.



Equipment of a ground puncture – 25U UPG «Arrow» for trenchless installation of underground utilities. Manufacturing and supplying it to companies specializing in the laying of utilities.

## ENERPROM GROUP FOUNDATION



### Company foundation

Professional team with 10 years experience in designing and manufacturing hydraulic equipment set up a new company in Irkutsk. In Russian company name stands for the first letters of phrase – Energy Progress in Engineering industry. The company started to manufacture a wide range of hydraulic tools almost immediately; these were hydraulic tools, power packs, high pressure hoses and wire ropes.

### Searching correct solutions

Engineering and analytical approach to solving customer's requests showed customer's requirements in special equipment. Until now there are no analogues in Russia. After that it was solved to joint Russian-South Korean company «TONNERS CO., LTD», to help manufacturing necessary tools using Korean capacity. Not stopping there, «Enerprom» started negotiations between the leading Japanese engineering companies through ROTOBO association (Japan Trading Association with Russia and Eastern Europe) and the government of the Irkutsk region.

Then JSC OMZ Enerprom was set up in S. Petersburg.

### Leading experience

One of the most well known Japanese engineering companies Mikuni Kikai Kogyo entered into partnership with Enerprom group and established joint venture JSC «Enerprom-Mikuni». The new company promotes to the Russian market. JSC «Enerprom» was set up in Moscow.

### Expansion of manufacturing

The formation of the full cycle manufacturing facility, which is equipped with the necessary machining equipment, is finished in Irkutsk. The parts in the machining workshop have been formed: lathe, milling, grinding, CNC machines, procurement, high pressure hoses manufacturing shop, carpentry, thermal, galvanic, welding, metalwork, shop assembly and testing. All of this let us increase labor productivity, output and product quality. A center of high pressure hoses manufacturing is created. It's based on Japanese technology «Yokohama» in Moscow.

JSC Enerprom-Engineering Solutions was set up, It focuses on working with railways companies, housing and municipal services, Ministry of Civil Defence and Emergency Response, since successfully solves complex problems industries.

### Specialization

Continuously increasing volume of customers technical challenges facing professionals of Enerprom group, leads to the restructuring of the group. «Enerprom» Ltd. is organized in Moscow. It specializes in pump stations, hydraulic units and test stands, taking advantage of the achievements of European and Japanese companies – hydraulic components Bieri, miniBooster, Haskel, Yuken.

### Development and construction

From a variety of achievements, trials and errors, strategic business directions of «Enerprom» group were formed: static hydraulic tools and hydraulic high pressure equipment for the production of wire ropes, hydraulic equipment for the construction industry; pumping stations, hydraulic test benches, hydraulic components; equipments for trenchless laying of communications, hydraulic tools and equipment for railway transportation, electric tools, metalworking tools, high pressure hoses, dynamic hydraulic tools and hydraulic equipment.

Close and fruitful cooperation with governmental ministries, such as «Russian railways», EMERCOM, with the municipal road construction and utility companies led to the further development of the direction of «dynamic hydraulic tools and equipment, compact self-propelled machinery for utilities, building and road works». A new venture JSC «InzhTehGidravlika» was created.

### New goals

Companies of the Enerprom Group are increasing industrial presence, developing product ranges, increase capitalization, which leads to the creation of the Engineering and Industrial Group «Enerprom» (IPG «Enerprom»). Coming more experienced engineering and design staff has set a new task for themselves – to develop innovative technical solutions in the field of professional hydraulic tools and complex hydraulic equipment, including synchronized lifting systems. Companies of IPG «Enerprom» focus on modernization of production and on serial production of hydraulic tools, begin to participate in engineering projects.

### Innovative breakthrough

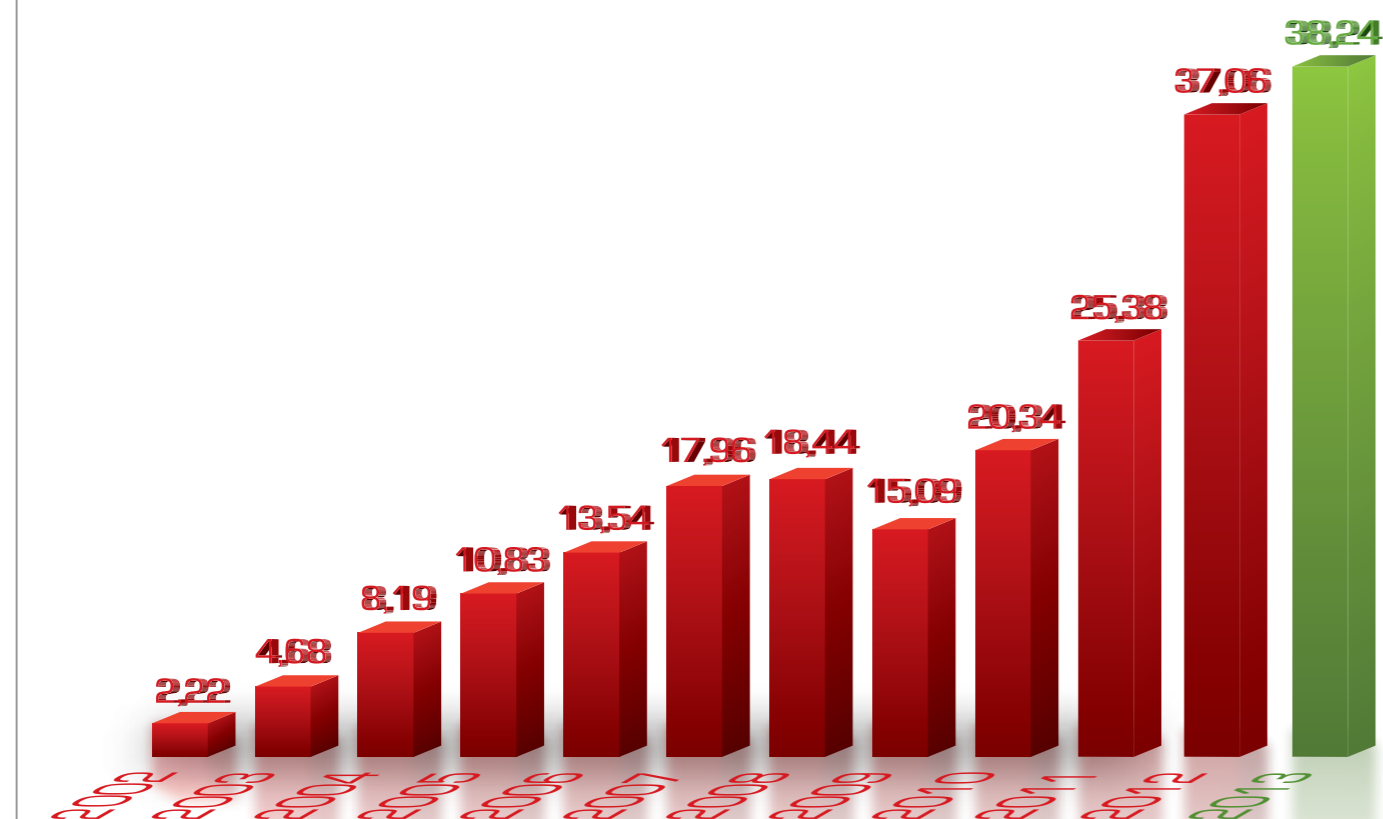
In-depth technical analysis of basic industries reveals a large number of unsolved problems that disturb the further development of the economy. Fundamental approach and gained professional experience in the implementation of technically challenging projects let IPG «Enerprom» to define the strategy of technical development.

### Strengthening of the leading position at the Russian market

The chosen development strategy of IPG «Enerprom» proves its viability, leads to a significant increase in the volume of production and shipment of ready products. The portion of employees with special engineering education is growing. IPG «Enerprom» actively participates in the implementation of major national projects of the Russian Federation.

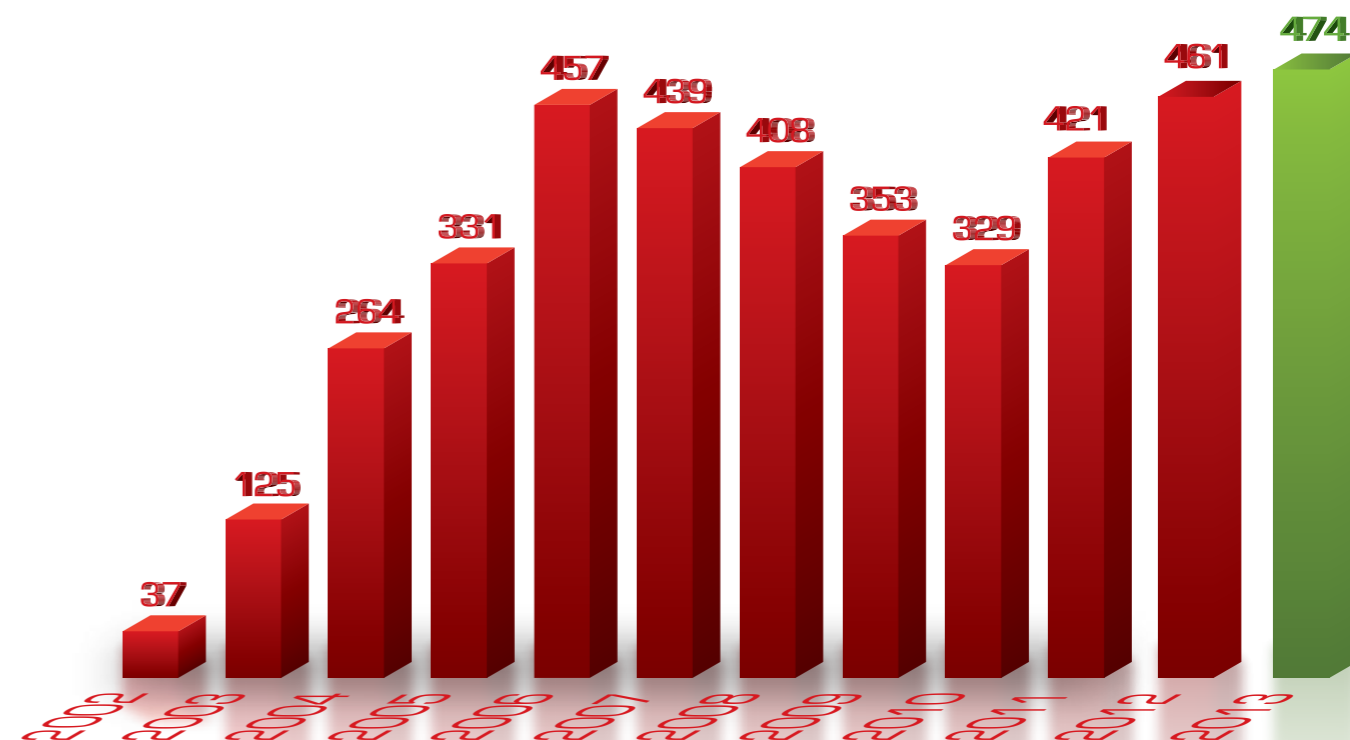
## DYNAMICS OF BASIC INDICATORS OF ENGINEERING AND INDUSTRIAL GROUP «ENERPROM»

VOLUME OF THE SHIPPED PRODUCTS AND SERVICES PER  
YEAR INCLUDING VAT (MLN USD)



Increasing volume of products shipped indicates the stability of the company, sustainable development and competitiveness. The economic crisis of 2008 has allowed to rethink management policy, mobilize the forces that led to increasing industrial presence, increasing capitalization. In 2010 «Enerprom» group came on a new level of indicators, and in 2012 became the leader in the hydraulics market.

NUMBER OF EMPLOYEES (PEOPLE)



Improving productivity and increasing the share of employees with special engineering education is one of the results of optimization of resources of «Enerprom» group.



## HYDRAULIC EQUIPMENT AND TOOLS (70 MPa)

■ JSC «Enerprom»

■ JSC «Enerprom – Center»

■ JSC «MZ Enerprom»



Marketing, design, manufacture and service of professional hydraulic tools and equipment of high, up to 70MPa pressure.

- Hydraulic jacks and cylinders of all known types of capacity from 5 to 1000 tons, which are the main component of the systems and equipment for lifting, moving objects and equipment for pre/poststressing reinforced concrete with bars and rebars, and special equipment.
- Hydraulic system of controlled movement of large objects, including synchronous movement according to the given algorithm: lifting, aligning, fixing and lowering, horizontal movement.
- Hydraulic and mechanical pullers, capacity from 5 to 100 ton for the removal of parts, which were planted with tightness on shafts, in the hole; prospective systems of spreading jacks for dismantling large parts; oil injectors for dismantling by hydraulic thrust.
- Tools for working with threaded connections, including the complete range of popular industrial hydraulic torque wrenches, bolt tensioners, torque manual multipliers with pneumatic and electric drive, nut splitters, flange spreaders, stud runners.
- General purpose presses, test for unpressuring and pressuring of large parts up to 600 ton-force, special, including for the production of wire ropes, hydraulic clamps.
- Wiring and cutting tools for working with cable, tires, rod material, fittings, seating, chain, – crimping, cutting, bending.
- Tools and equipment for repair of mining equipment: track pin presses, bead breakers, excavator lifting systems, range of movable jacks for lifting trucks up to 200t.
- Rescue tool.
- Tools for working with pipes: benders, pipe clips.





## HYDRAULIC PUMPING UNITS, HYDRAULIC COMPONENTS



## TEST BENCHES

JSC NIC «Enerprom»



- Power units and centralized lubrication systems;
- testing pump stations;
- mini station;
- testing benches;
- technological benches;
- purification and filtration system of liquids Parker;
- mechanical purification system of pipe-lines COMPRI Tube Clean;
- equipments and liquids for chemical wash of hydraulic systems Alchemia;



Product strategy of JSC NIC «Enerprom» is design and manufacture a wide range of pumping units for industrial hydraulic tools and hydraulic drive for standard and non-standard equipment with operating pressure up to 700 MPa and benches for testing of pipe fitting, high-pressure hoses, pipes, balloons, tanks, hydraulic components, cylinders during vibration, static, cyclic, destructive, parametric, long-run, research tests.

Design and manufacture of hydraulic equipment, including special orders, allows to satisfy customers more completely. Engineering department includes five engineering bureaus, that specialize in certain types of products.

Extensive range of products of ZAO NIC «Enerprom» designed for all industries and includes:

- pump stations of pressure to 700 MPa;

- compressors: plunger Haskel gas boosters on extra-high pressure up to 2690 bar;
- mini pump MEDO from company Nitto Kohki (Japan) of low pressure from 0,2 to 3 bar with wide range of application;
- hydraulic components of leading world producers (pumps, motors, way-valve, valves, connecting system, filters) – «Bieri», «MiniBooster», «Haskel», «BuTech», «Wandfluch», «Ponar», «Yuken», «Parker», «KPM», «Handok».



## HIGH PRESSURE HOSES. CONNECTING SYSTEMS

JSC «Enerprom – RVD»

JSC «Enerprom – HYDROPRIVOD»



The modern technology applied on productions JSC «Enerprom–RVD» and JSC «Enerprom–HYDROPRIVOD», allows to produce the high pressure hoses for the industrial hydraulic tools and the equipment, metal-rollings, thermoplastics, presses, test equipment for working pressures up to 180 MPa.

For the test equipment and the hydraulic tool working at ultra-high pressure, we use components for working pressure up to 400 MPa.

We manufacture hoses of any settings (with an inner diameter of 2 mm and 102 mm), including drilling sleeves with a complete set by any fitting: curved (45°, 90°), flanges of various series (3000, 6000, 9000), including SuperCat, fitting with metric and inch thread, non-typical fitting according to drawings of customer.

Our experience let us manufacture fittings according to customer drawing, samples, demands.

Cooperation with leading manufacturers of hydraulic connecting systems, such as YOKOHAMA Rubber Co. Ltd. PARKER Hannifin Corp. VEBA Srl group, etc. allows us to make original hoses for excavators (caterpillar and



wheel), bulldozers, elevators, mining trucks, construction – road equipment, drilling equipment, pile drivers and equipment of Japanese, American and European manufacturers, such as KOMATSU, HITACHI, CATERPILLAR and others. Hoses are also made for domestic equipment and cars BelAZ.

For equipping the systems operating at low (to –57°C) temperature we manufacture low-temperature hoses using components PARKER and YOKOHAMA.

Unique offer is hose under brand «Exseed ISO» YOKOHAMA, it has some significant advantages:

- Work under temperature –55 ... +120°C;
- Increased cycling strength (guaranteed minimum quantity of cycles) – 1 mln. cycles;
- 30% lighter in comparison with analogs due to application of innovative materials;



- High flexibility of hoses, (radius of a bend is twice less, than it is provided by the standard SAE/DIN).

Technical characteristics of hoses are confirmed by the certificate on the basis of special low temperature and strength testing (ROSS RU.0001.21ME85). Every hose is subject to double working pressure test. The test is hold at the modern test bench, designed and manufactured by Enerprom specialist.

We supply not only assembled hoses, but also hose in coils, fitting, hose crimping equipment, incl. test benches, quick couplers and connecting components.



## RAILWAY TRANSPORT EQUIPMENT

■ JSC «Enerprom – Engineering Solutions»

■ JSC «Enerprom – Center»

■ JSC «Enerprom»

■ JSC MZ «Enerprom»

Rail transport is one of the largest consumers of hydraulic tools and equipment, which is widely used in the extensive network of manufacturing and repair services.

### HYDRAULIC EQUIPMENT FOR MAINTENANCE AND REPAIR OF RAILWAY VEHICLES.

Wagon-repair complexes and machinery:

- Wagon-repair system «Vityas»
- System for straightening upper capping frame of gondola wagons;
- movable set of hydraulic tools for shop repair of freight wagons PRM-D;
- Movable set for wagons repair KPOV-1;
- Self-moving set of hydraulic tools MTO-RV;
- Device for straightening hatches of gondola wagons in waggons UPL-M;
- Movable emergency wagon repair shop PARM-VG;
- Self-propelled work platforms;
- Jacking sets stationary and movable UDS, UDP; set for mounting/dismounting body center plates USPP-1; set for mounting/dismounting rivets of friction slats of freight wagons UVKZ;
- Bench for pressing out wheels from wheel spindles of freight wagons SKR-1; bench for testing break rods of freight wagons SIGVT-50.

Set for shock absorbing devices:

- Equipment for replacing shock absorbing device USPA-1;
- Set for dismounting shock absorbing device USPA-45;
- Set for mounting/dismounting of spring-friction shock absorbing device URPFA-3, URPFA-1U, URPFA-SH6;
- Set for mounting/dismounting of elastomeric shock absorbing device UPREA-1;
- Universal set for filling elastomeric shock absorbing device UUEPA-1;
- Test bench for elastomeric shock absorbing device SI-2500EPA;
- Test bench for clamping bolts M30 U-10.

Riveting tools:

- A range of riveting devices for all kind of riveting works at wagon as hydraulic clamps with power packs and hoses;
- Pressing out clamps of friction strips of solebars of freight wagons;
- Set: riveting device, pressing out clamp, power pack, hose.



Sets for work boxes of wagons wheels pairs:

- For dismantling box nut M110 of wagons wheels pairs, UDG-M110, UDG-M110/2-5;
- For box repair URB20-4;
- For dismantling inner bearing ring from pin of wheel pair UDVKP.

Tools and equipment for hatches of gondola wagons:

- Installations for mounting/dismounting hatch covers of gondola wagons USPL-1;
- Sets of straightening hatches of gondola wagons UPL-E, UPL-P2;
- Processing line for manufacturing hatch covers of gondola wagons



- Sets of straightening hatches lips of gondola wagons;
- Device for closing hatches of gondola wagons UGZL-2, 4-60, spreading wedge KRAO1030.

Hydraulic equipment for railways maintenance:

- Railway jacks, railway levelers, rail gap spreaders, rail benders, wench for sleepers mounting/dismounting, rail drilling set, rail cutting set, rail hydraulic wrench;
- Self-moving emergency rails repair machine;
- Set for replacing gaskets for rails and sleepers.



## EQUIPMENT FOR TRENCHLESS COMMUNICATION LAYING

■ JSC «Enerprom – Engineering Solutions»

■ JSC «Enerprom – Center»

■ JSC «Enerprom»



Installations for trenches laying of communication are equipped with hydraulic high pressure drive, that makes possible to create a series of high-performance, mobile and easy to operate equipment.

### INSTALLATIONS FOR TRENCHES PIPES LAYING WITH PUSHING METHODS UBPT «HORIZON».

Laying is carried out by punching in the soil strength category 3.1, in which steel pipes or reinforced concrete reservoirs with a diameter up to 2020 mm, open end provided with a knife pressed against the array of soil, and fed into the tube as dense core and developing soil removed from the stall. Extruded pipe, in the future, may serve as a sheath, which then extend their pipeline and other utilities.

Key features of installations «Horizon»:

- System UBPT – 400 light class, provides pushing pipes from 150 to 820 mm at a distance of 90 m with a force of 400 ton.
- System UBPT – 600 middle class, provides pushing pipes from 150 to 1620 mm at a distance of 90 m with a force of 600 ton.
- System UBPT – 800 heavy-duty, provides pushing pipes from 1420 to 2020 mm at a distance of 90 m with a force of 800 ton.
- Some models within each class are made with a possibility of connecting hydrodynamic tools (pump, pneumatic drill, etc )
- Modular systems provide a possibility of a compact and deep pits, ease of installation and delivery to the work area.
- High speed and accuracy of performance.
- Wide range of configuration depending on the goals of the customer.

### TRENCHLESS TECHNOLOGY PIPELINE REHABILITATION METHODS OF DEMOLITION OF THE OLD TUBES AT THE OLD TUBES AT THE SAME TIME LAYING THE PIPES WITH THE NEW SETUP USING THE UST-100.

The unit provides trenchless demolition of any pipe types: steel, cast iron, asbestos cement, ceramic, concrete with a diameter of 150 to 450 mm with the simultaneous laying of pipes equal to or of a greater diameter from 150 to 500 mm. As new ones you can use pipes of any material from metal to plastic connection. Length of the pipe being replaced up to 150m.

### CHANNELLESS PIPE LAYING

Installation for controlled trenchless pipe-laying punctures UNP-40 is designed for pipe laying in controlled regime in grounds of 1–3 categories. Navigation system SNS20-PRO is designed to determine location of the boring head with sonde, incl, distance between the head and ground surface, as well as direction of movement of the head while horizontal puncture. Diameter of the installing tube is up to 400mm, diameter of demolished tube is up to 220 mm, distance of tubing is up to 150m.

To implement the methods of trenchless pipe-laying punctures developed a universal installation GTP-25U «Arrow».



The unit provides piercing pipes with a closed end (diameters to 50) of pilot or drilling boom in the ground at a distance of 50 m, the broadening of the trench and pulling the pipe, cable, etc.

Replacement of the failed sites of pipe by static destruction of old trenches with a diameter up to 180 mm with the subsequent expansion of the channel and installing new pipes with a diameter from 63 to 400 mm in old channels.

We provide services for trenchless laying of communication.



## HYDRAULIC EQUIPMENT FOR THE CONSTRUCTION INDUSTRY

■ JSC «Enerprom»

■ JSC «Enerprom – Center»

■ JSC «Enerprom – Engineering Solutions»



Our goal is to be a reliable partner for design and construction organizations in carrying out construction projects using the power of hydraulic equipment..

Activity in the business direction of the «hydraulic equipment for the construction industry» includes the development, production, technical support:

- equipment for prestressing concrete by using strands (mono and multi strands jacks) at factories and construction site;
- strand prestressing systems with adhesion to the concrete and without adhesion to the concrete;
- unpressuring the stress of strands;
- plants push rope into trenchmaker;
- stressing jacks of rock bolting;
- equipment for cutting and bending rebar rod under the brand B&C, Edilgrappa;
- systems of mechanical connection rod reinforcement molding, promoted together with the GC «Promstroy-kontrakt»;
- installations «Magellan-C» to extract the casings of bored piles;
- equipment for trenchless laying of pipes;
- devices for moving heavy equipment on rails;
- hydraulic lifting platform for the excavator;
- system of hydraulic jacks with a platform of holding;
- jacks of high accuracy building universal mounting heavy structures, control testing of structures under construction;
- systems of sliding bridge structures;
- assembly of hydraulic equipment installation of the channel span;
- systems moving heavy bulky objects in cramped conditions on the basis of the reinforcing wire tensioners extractors.



«Enerprom» focuses on the engineering projects in the assembly and construction work that will ensure consistently high sales results, increase the production of high-margin products, improve production efficiency of enterprises, for those we work for.





## EQUIPMENT FOR MANUFACTURING WIRE ROPES

JSC «Enerprom»

JSC «Enerprom – Center»



In Russia, there are favorable conditions for business development for the production of wire steel rope swaging, including slings and vants. For meeting the needs «Enerprom» business introduces advanced technology and complete equipment of its own design.

«Enerprom» equipment allows to equip the plant, the site for the production of slings, rigging with a given volume of output, to ensure high productivity, reduce labor intensity of production, to strengthen the culture and safety, increase production, reduce lead time.

Technology of sealing the ends of the wire steel rope slings crimping metal sleeve and use of OEM «Enerprom» for the production of wire steel rope slings can receive winnings in man-hours to 5 times compared to the production, based on a hand-braided without equipping «Enerprom». For conditions where advantageous to apply the manual are filled in, offer the appropriate settings with the mechanization of spinning braids of rope.

«Enerprom» combines manufacturing and service function: supervision, commissioning, training, warranty and post warranty service, conducts a flexible pricing policy in the line with market trends.

Premium equipment and control during manufacturing, application of a new high-resistant seals, hydraulic components produced by the world's leading companies Bieri (Switzerland), Yuken (Japan) can achieve high performance with improved quality characteristics of products.

The use of «know-how» in the Russian market: offer unique imported swaging accessories for production of various rigging products.

Modernization of business, «Trade-In», a system of netting, which allows you to set off the value of your old equipment at the cost of a new, purchased in our company. Why is a «Trade-In»? – You save time and money to upgrade your production «Enerprom» is the official distributor of WIROP Industrial Co.,

Ltd (Taiwan) in Russia to promote the unique equipment WIROP for production of wire steel rope. Fruitful cooperation, linking our companies allowed «Enerprom» as Russia's largest manufacturer of such equipment, to apply advanced technologies WIROP Industrial Co., Ltd in its production.

We offer promising solutions in the design of the equipment; complete solutions to organize the production of wire steel rope rigging:

- for termination of the wire steel rope slings crimping metal sleeve and the mechanization of manual spinning braids of rope;



- horizontal tension testing benches;
- cutting and measuring machine for steel rope, recoiling machine, marking system;
- high quality accessories for swaging a wide range.



## DYNAMIC HYDRAULIC TOOLS. MOUNTED EQUIPMENT FOR MOBILE MACHINERY. MILITARY MACHINERY REPAIR

JSC «InzhTehgidravlika»

JSC «Enerprom – Engineering Solutions»

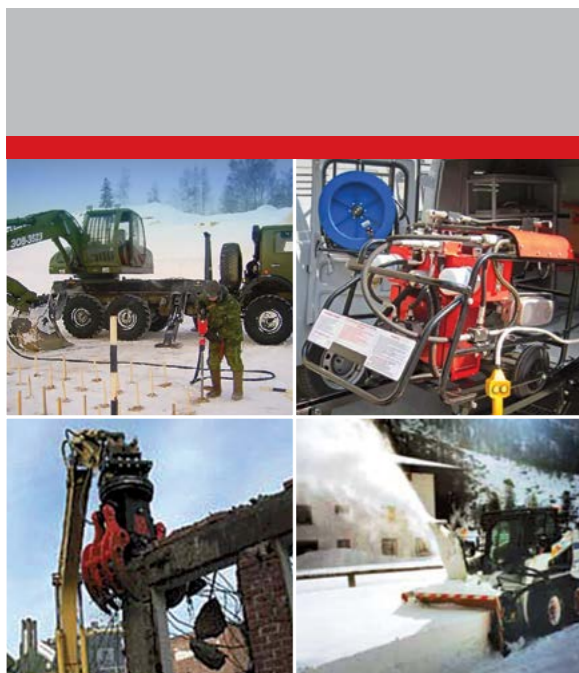


Marketing, development and production of dynamic hydraulic tools for construction, utilities and building road works.

Hydraulic concrete breakers rock breakers, hydraulic rock drill, angle grinding machines, hydraulic, rotary saws, hydraulic chain saws and saber saws, hydraulic manual drills, hydraulic torque wrenches, submersed slurry pumps, welding, power generators, lighting system, fans, centrifugal, rotator of valves, matching unit hydraulic parameters, pumps for crimping pipes.

Hydraulic tools and equipment for utility:

- Hydraulic dynamic tool.
- Mobile service-repair machines for utility on the base of automobiles UAZ, GAZ, ZIL, FORD, etc. These machines equipped



with double-flow compact hydraulic power pack which provides a possibility of simultaneous connection of hydraulic dynamic tool and hydraulic equipment of 70MPa (nut splitters, different jacks, two extension coils with high pressure hoses length up to 10 m). Machines complete with compact lighting system, collapsible workbench, a set of tools with a vice, electric hoist mounted on the machine.

Attached implements for utility:

- Rotary snowplow;
- Snow-removal equipment;
- Rotary mover for roadsides;
- Busch saw.

Machines and equipment for road building works:

- Attached implements for compaction and soil stabilization, ground leveling and grading, to repair the road surface;
- Attached implements for asphalt-laying machine for dumping constructed roads by road stone;



- Handling mechanisms for the repair of road surface, asphalt level blade; device for pale driving of road barriers;
- Emergency and repair machines for road masters;
- Manual power tools for soil compaction; and for cutting concrete, brick, ceramics; leveling and compacting concrete; self-contained welding and power generators;
- Crawler excavators and pneumo-wheel excavators.



## COMPACT SELF-PROPELLED MACHINERY

JSC «Enerprom – Engineering Solutions»

JSC «InzhTehgidravlika»



Design and manufacturing of compact self-contained machinery with attached hydraulic equipment for building, municipal and road works, for maintenance and repair freight wagon.

Compact self-contained machinery consist of base chassis of different capacity with rubber-track driver and special hydraulic acting equipment. Engine unit includes gasoline or diesel engine, that actuates hydraulic multi-section power unit with running facilities. Chassis are driven by hydraulic motors, attached equipment is driven by hydraulic cylinders. Power unit can be equipped by modules of connecting hand dynamic hydraulic tools, 14 MPa, and static hydraulic tools, 70 MPa.

- Compact pile driver MSU-800 for poling road safety fence pillars, incl. set of devices for straightening pillars

Installation is intended for blockage of metal piles (racks) of a barrier road protection, drilling of wells with a diameter up to 350 mm under installation of piles and racks in places where their blockage is impossible or expedient, extraction of the hammered racks (piles), and also mechanization of works at construction and service of highways due to use of the manual dynamic hydraulic tools.

Hydraulic hammer power: 850 J, the frequency of blows are 900–1400 min.<sup>-1</sup>; the maximum length of hammered vertical diaphragm of 3 m; the mass of installation is 3 t.

Compact pile driver MSU-800 can be transported to a place of works in a truck body, the trailer, the evacuator with a loading capacity more than 3 t, to work at a bias to 15 degrees, the copra has mechanisms for vertical exposure.

- Installation ULPM-1 for cold straightening of gondola wagons hatches. Mounting/dismounting of hatches. mounting/dismounting of different parts under wagon frame, lifting different loads to narrow spaces.

The ULPM-1 installation with PTO and PPV allows to mechanize process of editing of hatches of gondola and excludes need for performance of labor-consuming operations on their removal, transportation and editing on special the presses that considerably reduces time of preparation of wagons. One of advantages of ULPM-1 is that installation allows to carry out works on preparation of wagons in any conditions, it can work in intertrack space by preparation of the wagons which are on the other railway track.



- Self-propelled machinery MTO-RV for maintenance and repair of wagons.

This self-propelled chassis that also carries out function of pump station for ensuring operation of the hydraulic tool placed in the container. Also in the container adaptations for ensuring performance of various works are placed.

- Compact high-rise hoist for works at height 8, 14, 23m

Depending on chassis type, elevators are executed with ensuring working height of lifting to 8–23 m, with a horizontal departure to 3,5–12 m, with a carrier power to 120–200 kg.



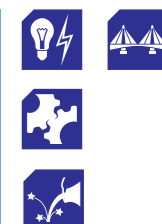
## ELECTRIC TOOLS

- JSC «Enerprom-Mikuni»    ■ JSC «MIKEN»
- JSC «Enerprom-M»



## RUSSIAN-JAPANESE BUSINESS

- JSC «Enerprom-Mikuni»    ■ JSC «MIKEN»
- JSC «Enerprom-M»



Our aim is to promote the latest Japanese tools and equipment, engineering solutions and projects in the fields of production and usage of professional electrical installation of hydraulic equipment and tools.

IZUMI series of tools with lithium-ion battery:

- multi-purpose tool used for different types of work, such as crimping, cutting, punching holes;
- crimping of tubular cable lugs and connectors;
- cable cutters.

Hydraulic hand crimps are autonomous and driven by the drive pump or pumping stations, storage crimps.

Hydraulic presses 50, 100, 200 tons are used for crimping tension, and contact fitting.

Hand Cutters autonomous universal [cutting rebar, rod, wire, rope, cable] Cable cutter.

Cutters powered by a hand pump or a pumping station, rechargeable torches, universal and Cable.

Hydraulic self contained punches, driven by a hand pump or pumping stations, battery.

Hydraulic pipe benders and pipes clips.

Hydraulic pushers for movement of power transformers on rails.

Cordless multi-tool, used for various types of work, such as crimping, cutting, punching holes, bending the corners.

Compact hydraulic pumping stations with electrical, including battery and gasoline-powered, hand pumps and foot pedal.

Sugino Equipment of high and ultrahigh pressure of water for cleaning, dressing and mutilation.

The Russian-Japanese Group «Enerprom-Mikuni» has been doing its business for eight years that showed the viability of this project. In 2011 new companies JSC «MIKEN» and JSC «Enerprom-M» were established in order to stimulate further development of Russian-Japanese business.

Among the successfully implemented projects there are:

- JSC «DVZZvezda» – the ship transportation system project that was designed and manufactured using Yuken hydraulic components and CUPLA couplings integration into molding machines systems.
- JSC «CNTPZ» – modernization of electric arc furnaces basing on a Yuken proportional valves.
- Federal state unitary enterprise «KrasMash» – the supply of hydraulic drive for the crusher station as a state-guaranteed order by Federal Program of Preparation for Hosting 2014 Sochi Olympic Games.
- JSC «HoldingMRSK» – complex supply of MIKUNI compression heads for every MRSK branch.
- JSC «KEGOS» – supply of IZUMI compression and cutting tools sets for all branches of Kazakhstan Nation Electric Distribution Company.

The Russian-Japanese Group «Enerprom-Mikuni» is an official Russian dealer of such Japanese companies as:

- Yuken Kogyo Co., Ltd – is a manufacturer of components for hydraulic systems and general purpose industrial equipment.
- Yokohama Rubber Co., Ltd – is a manufacturer of high-pressure hose and fittings.
- Nitto Kohki Co., Ltd – is manufacturer of quick-connect couplings, metal working power tools and electric, pneumatic and hydraulic equipment.
- Izumi products Company – is a manufacturer of professional electrical wiring tools and electro hydraulic tools and equipment.
- Kawasaki Precision Machinery – is a manufacturer of hydraulic components for mobile applications of different types: hydraulic motors, hydraulic pumps, hydraulic valves (proportional valves, control valves and actuators etc.).
- Sugino Machine Limited – is a manufacturer of high and ultrahigh pressure of water for cleaning, dressing and mutilation.
- OSAKA JACK – is a manufacturer of mechanical jacks, systems of lifting, hydraulic system components.

CONFERENCES.  
PARTICIPATION IN  
INTERNATIONAL SHOWS.  
CERTIFICATES. PATENTS.



CATALOGS OF «ENERPROM» GROUP





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