

PSM1

www.powerunit.ru

**WE DEVELOP RUSSIAN
POWER ENGINEERING
INDUSTRY AND WE DO IT WELL**

2023

PSM – THE LARGEST RUSSIAN COMPANY FOR THE PRODUCTION OF POWER-GENERATING EQUIPMENT BACKBONE ENTERPRISE IN THE POWER ENGINEERING FIELD



100%

PROJECTS BASED ON RUSSIAN
DESIGN OUR VERY OWN
ENGINEERING CENTER



330 PEOPLE

TOTAL STAFF
OF THE COMPANY

in 2022



70 MILLION \$

ANNUAL TURNOVER
INCLUDING VAT

(VALUE ADDED TAX) IN 2022
(AS FOR NOVEMBER 2023 EXCHANGE RATE)



+1000

NEW UNITS
EACH YEAR



PSM «KRASNYI BOR»

YAROSLAVL CITY

5 000 M²

SINCE 2005

SMALL POWER DIESEL GENERATING SETS,
PUMPING AND ELECTRICAL EQUIPMENT
ASSEMBLY, PUMPING AND ELECTRICAL EQUIPMENT



PSM «MASTER»

TUTAYEV TOWN

5 400 M²

SINCE 2013

METAL WORK PRODUCTION
(CONTAINERS, FRAMES, FUEL TANKS)



PSM «PRIME»

TUTAYEV TOWN

4 500 M²

SINCE 2021

ASSEMBLY PRODUCTION OF DIESEL
AND GAS HIGH-POWER GENSETS

PSM «PRIME»2 -
CONSTRUCTION
IN PROGRESS

2700 M²



ENGINEERING CENTER

YAROSLAVL CITY

SINCE 2005

A TEAM OF 40 OF ENGINEERS. MORE THAN
100 NEW TECHNOLOGICAL SOLUTIONS

MAKING HISTORY SINCE 2005

WE HOLD OUR OWN CUSTOMER EVENTS

- Annual International Engineering Forum — since 2018
- «Data Center» conference

BUSINESS IDEA ASSEMBLY SHOP

Manufactory for the improvement of YaMZ serial diesel generators



2005-2010

THE FIRST PLANT PSM «KRASNYI BOR»

ENGINEERING CENTER START UP

EACH 4TH GENSET PRODUCED IN RUSSIA IS PRODUCED BY PSM

FIRST EXPORT SUPPLIES

PSM ORIGINAL BRAND NAME



2011-2020

THE SECOND PLANT PSM «MASTER»

COLLECTION OF ROSSETI CERTIFICATE
(One of the world's largest electric grid holding company, providing which provides to consumers in Russia)

PSM WAS INCLUDED THE ROSNEFT REGISTER
(The world's largest pipeline company in the industry of oil and petroleum products transportation)

REBRANDING

PSM

ISO 9001 CERTIFICATE COLLECTED



2020-2023

THE THIRD FACTORY PSM «PRIME»

ROSNEFT CERTIFICATION
(The leader of the Russian oil industry)

NOVATEK CERTIFICATION
(The largest independent natural gas producer in Russia)

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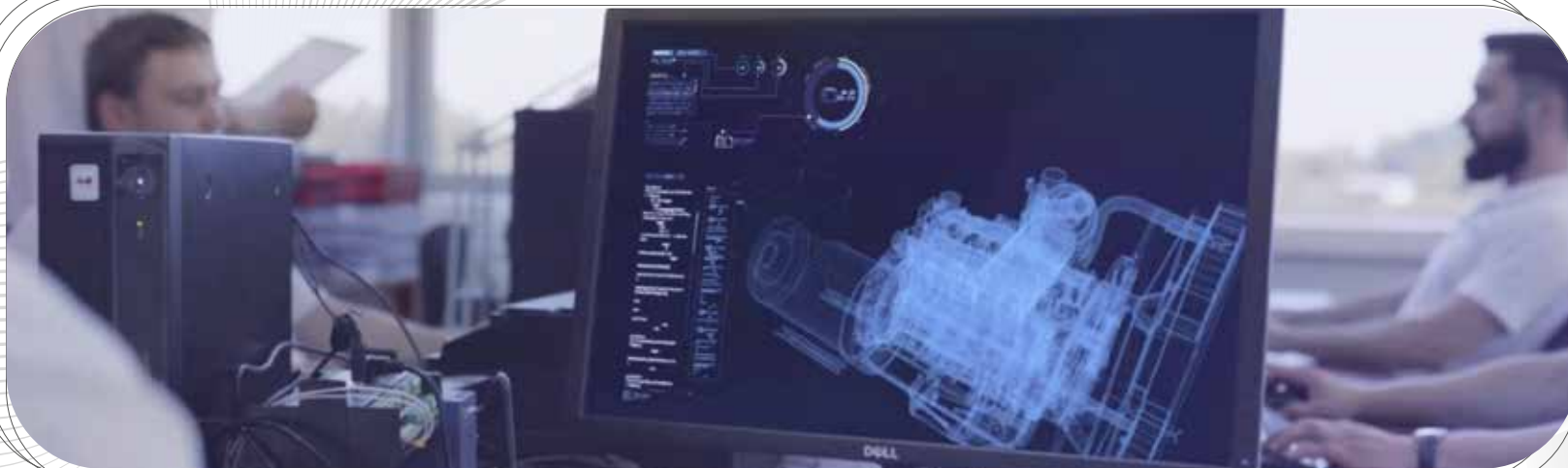
OEM PARTNERSHIP WITH «VOLGA INDUSTRIAL ENGINES»

> 1760 MW
of shipped energy

> 31 MW
of gas-fired power

> 16 000
units installed around the world

THE KEY TO THE ENGINEERING DEVELOPMENT



THE ENGINEERING CENTER IMPLEMENTS CUSTOMIZED PROJECTS OF ANY COMPLEXITY LEVEL IN LINE WITH UP -TO-DATE WORKING PRACTICES AND COMPREHENSIVE THROUGHOUT TECHNICAL SUPPORT AT ALL STAGES OF THE PROJECT

- SELECTION OF MATERIALS AND COMPONENTS
- CALCULATION OF HEAT POWER
- METAL STRUCTURE DURABILITY CHECK
- 3D MODELING
- DESIGN OF DRAWINGS AND INSTRUCTIONS
- WIRING DIAGRAMS DESIGN, SELECTION OF COMPLETE TRANSFORMER SUBSTATION AND WIRING
- SETTING UP PROTECTION, CONTROL AND AUTOMATION TERMINALS
- UNIT OPTIMAL FUEL SUPPLY PLANNING
- FIRE SUPPRESSION AND ALARM SYSTEMS DESIGN
- POWERUNIT PERFORMANCE SUPERVISORY AND REMOTE CONTROL DESIGN
- TAGGING AND TAG MATCHING TABLES DESIGN
- COMPLETE PACKAGE OF DOCUMENTS DRAW-UP AND COORDINATION WITH DESIGN INSTITUTES
- DESIGN OF TESTING BENCHES AND OPTIMIZATION OF EQUIPMENT OPERATION

GOODS PRODUCED BY PSM

ENERGY EQUIPMENT



DIESEL GENSETS



GAS GENSETS



POWER DRIVES



COMPLETE TRANSFORMER SUBSTATIONS



PACKAGED POWER STATIONS



LOAD UNITS



UNINTERRUPTIBLE POWER SUPPLY (UPS)

PUMPING EQUIPMENT



PUMP UNITS



PORTABLE PRESSURE TEST UNITS



WELL DRILLING PUMPS

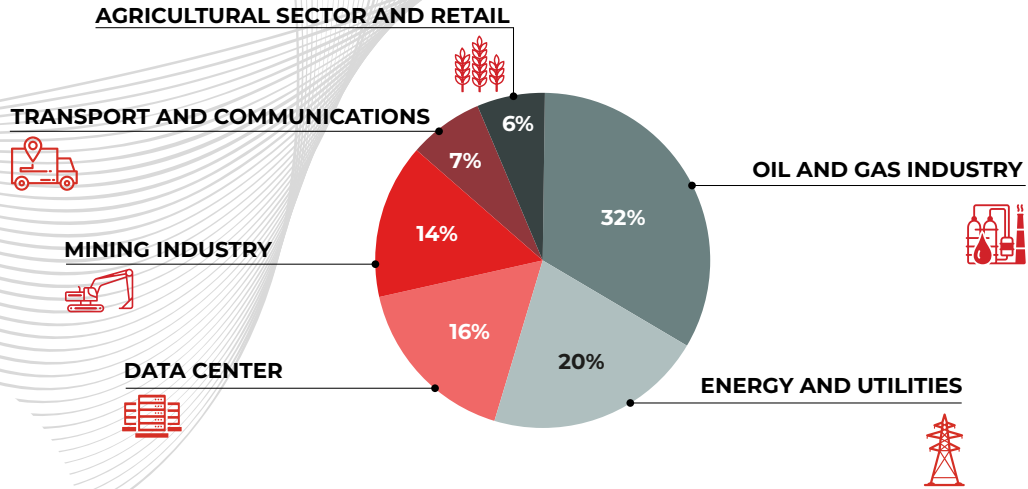


BLOCK-MODULAR PUMPING STATIONS

BUSINESS SOLUTIONS

DISTRIBUTION OF SUPPLIES BY INDUSTRY*

*June 2023



EXPORT SUPPLIES

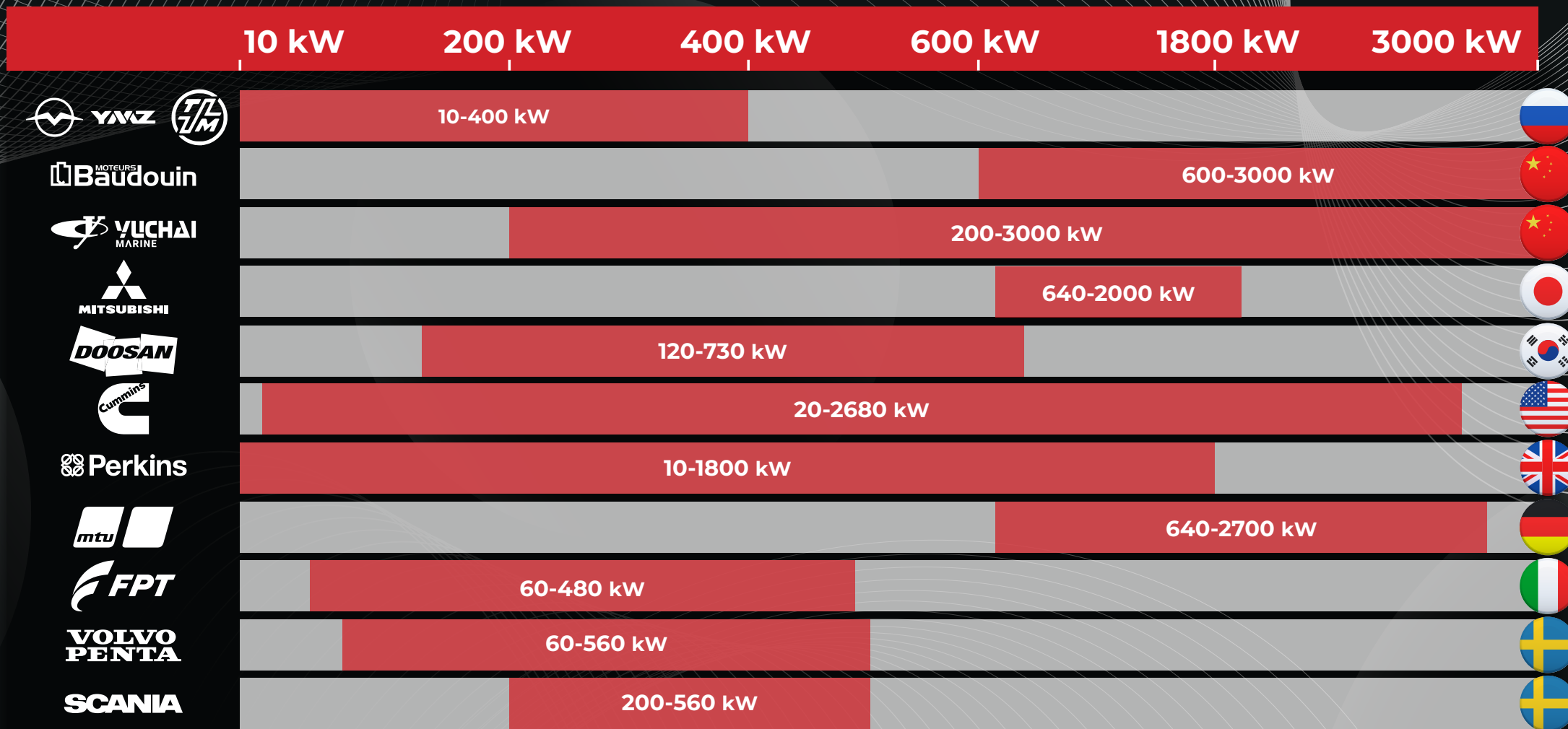


PARTNERS TRUST US



DIESEL POWER PLANTS PRODUCED BY PSM

ENGINES 10-3000 kW



COMPLETE TRANSFORMER SUBSTATIONS AND PACKAGED POWER STATIONS

WE PRODUCE COMPLETE TRANSFORMER SUBSTATIONS ACCORDING TO INDIVIDUAL REQUIREMENTS

LOAD SWITCH 6; 10 kW | LOW VOLTAGE WINDING 0,23; 0,4; 0,6; 0,69 kW | OIL FILLED AND DRY TYPE POWER TRANSFORMERS 25-1600 kVA



CERTIFICATE OF INSULATION
GOST 1516.3-98



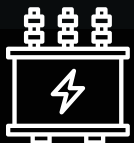
CERTIFICATE OF CONFORMITY
GOST 14695-80

COMPLETE TRANSFORMER SUBSTATION AND REDUNDANT POWER SUPPLY IN A SINGLE CONTAINER - UNIVERSAL SOLUTION FOR ANY PURPOSE

- Uninterrupted power supply
- Automation
- Cost savings on operation and maintenance cost saving
- Convenience of transportation and installation
- Work in parallel with stationary power grid
- Production of energy complexes with a unified management system

PACKAGED POWER STATIONS INCLUDES:

COMPARTMENT COMPLETE TRANSFORMER SUBSTATION – COMPARTMENT LOW VOLTAGE SWITCHGEAR – BACKUP SOURCE COMPARTMENT – CONTAINER



PSM SUPPLIES COMPLETE TRANSFORMER SUBSTATIONS SEPARATELY AND AS PART OF PACKAGED POWER STATIONS



PACKAGED POWER STATIONS FOR THE KONDINSKOYE OIL FIELD (RUSSIA)

GAS POWER PLANTS

THE PSM PLANT PERFORMS A FULL RANGE OF WORK FROM DESIGN AND CONSTRUCTION TO COMMISSIONING OF THE ENERGY CENTER



Return of investments in 2-5 years



Designed for operation throughout the whole country



OWN TEST BENCH WITH A UNIVERSAL FEED MODULE LOAD VOLTAGE: WE TEST STATIONS OF DIFFERENT VOLTAGE CLASSES (0.4 kV, 6.3 kV, 10.5 kV)



One contractor – one responsibility



The key OEM and service-partner LLC «VOLGA INDUSTRIAL ENGINES» (Russian partner of « Baudouin»)



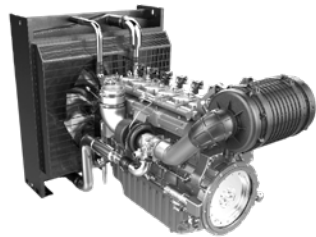
MOTEURS **Baudouin**

GAS POWER PLANTS WITH BAUDOUIIN ENGINES

PSM IS A BAUDOUIIN SERVICE PARTNER.
ENGINE MAINTENANCE FROM DIAGNOSTICS
TO OVERHAUL



MODEL RANGE OF GAS PISTON UNITS WITH BAUDOUIIN ENGINES



PSM BAUDOUIIN-350

| | |
|----------------|---|
| Electric power | 350 kW |
| Engine | 6M33NG |
| Thermal power | 455 kW |
| | 222 kW – of coolant, 233 kW – of exhaust gas)* |
| Voltage | 0,4 kW |



PSM BAUDOUIIN-540

| | |
|----------------|--|
| Electric power | 540 kW |
| Engine | 12M33NG |
| Thermal power | 730 kW |
| | (255 kW – of coolant, 475 kW – of exhaust gas)* |
| Voltage | 0,4, 6,3, 10,5 kW |



PSM BAUDOUIIN-700

| | |
|----------------|--|
| Electric power | 700 kW |
| Engine | 12M33NG |
| Thermal power | 870 kW |
| | (305 kW – of coolant, 566 kW – of exhaust gas)* |
| Voltage | 0,4, 6,3, 10,5 kW |



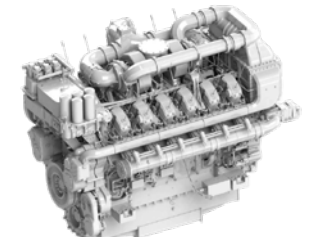
PSM BAUDOUIIN-1000

| | |
|----------------|--|
| Electric power | 1000 kW |
| Engine | 16M33NG |
| Thermal power | 1020 kW |
| | (472 kW – of coolant, 548 kW – of exhaust gas)* |
| Voltage | 0,4, 6,3, 10,5 kW |



PSM BAUDOUIIN-1200

| | |
|----------------|--|
| Electric power | 1200 kW |
| Engine | 16M33NG |
| Thermal power | 1225 kW |
| | (560 kW – of coolant, 665 kW – of exhaust gas)* |
| Voltage | 0,4, 6,3, 10,5 kW |



PSM BAUDOUIIN-1500

| | |
|----------------|---|
| Electric power | 1500 kW |
| Engine | 12M55NG |
| Thermal power | 1631 kW |
| | (489 kW – of coolant, 1142 kW – of exhaust gas)* |
| Voltage | 0,4, 6,3, 10,5 kW |

* - calculated values; readings of the actual thermal power are determined during operation

CONSTRUCTION OF ENERGY CENTERS

EPC CONTRACT

TURNKEY PROJECTS STAGES

- 1 ENERGY AUDIT
- 2 DESIGN
- 3 AGREEMENT
- 4 PRODUCTION
- 5 CONSTRUCTION
- 6 COMMISSIONING SUPERVISION
- 7 SUPERVISORY CONTROL
- 8 SERVICE



5.4 MW GAS POWER PLANT FOR THE INDUSTRIAL PARK «RODNIKI» IN THE IVANOVO REGION (RUSSIA)

PROJECTS OF DIESEL AND GAS POWER PLANTS IN 2023



**12 MW DIESEL POWER
PLANT FOR RESERVING
A DATA CENTER IN MOSCOW**



**1.4 MW GAS POWER PLANT FOR LNG
(LIQUEFIED NATURAL GAS) FACTORY**



**2 GAS POWER PLANTS
WITH A CAPACITY OF 4 MW
EACH FOR «NOVATEK»**



**GAS POWER PLANT WITH HEAT
RECOVERY SYSTEM FOR FACTORY
«PSM PRIME»**

PSM AND ESG-AGENDA



**IN 2021 – AGREEMENT BETWEEN PSM AND SCHNEIDER ELECTRIC
IN THE FIELD OF SUSTAINABLE DEVELOPMENT
AND ACHIEVEMENT OF ESG GOALS**

IMPLEMENTATION OF ESG PRINCIPLES IN THE PRODUCTION OF PSM

**THE PSM TEAM HAS COMPLETED THE CONSTRUCTION OF ITS OWN
GAS POWER CENTER WITH A HEAT RECOVERY SYSTEM. THANKS
TO THIS, WE REDUCE CARBON DIOXIDE EMISSIONS BY 30%**



PSM CEO ANDREY MEDVEDEV
AT THE ESG-DAY EVENT ORGANIZED
BY BANK FOR DEVELOPMENT
AND FOREIGN ECONOMIC ACTIVITY
(the main methodologist of the ESG
approach in Russia)



PUMPING EQUIPMENT



ENGINEERING: FROM THE DRAWING TO THE START
ANY PUMP MODEL CAN BE ADOPTED TO SUIT YOUR NEEDS



STOCK AVAILABILITY

THE PSM MODEL RANGE INCLUDES >100 MODELS OF PUMPING EQUIPMENT



FOR AGRICULTURE



FOR THE OIL INDUSTRY



FOR HOUSING AND COMMUNAL SERVICES



FOR CONSTRUCTION



FOR THE MINING INDUSTRY



FOR FLOOD CONTROL



FOR FIRE FIGHTING



TYPES OF PUMPING EQUIPMENT



CANTILEVER AND HORIZONTAL PUMP INSTALLATIONS

| | |
|----------------|---------------------------|
| TYPE OF LIQUID | Water |
| LIQUID SUPPLY | 36-1800 m ³ /h |
| PRESSURE | 8-177 m |



PUMP UNITS STRONG SERIES

| | |
|----------------|---------------------------|
| TYPE OF LIQUID | Dirty water |
| LIQUID SUPPLY | 40-1400 m ³ /h |
| PRESSURE | 9-54 m |



PUMP UNITS SUPER STRONG SERIES

| | |
|----------------|----------------------------|
| TYPE OF LIQUID | Viscous liquids |
| LIQUID SUPPLY | 90-10000 m ³ /h |
| PRESSURE | 5-200 m |



PUMP UNITS WITH PUMPS OF TYPE D (FOR CLEAN WATER)

| | |
|----------------|----------------------------|
| TYPE OF LIQUID | Water |
| LIQUID SUPPLY | 140-5000 m ³ /h |
| PRESSURE | 11-132 m |



PUMP UNITS WITH CNS TYPE PUMPS (FOR WATER)

| | |
|----------------|--------------------------|
| TYPE OF LIQUID | Water |
| LIQUID SUPPLY | 40-600 m ³ /h |
| PRESSURE | 99-390 m |



PUMP UNITS WITH GROUND PUMPS

| | |
|----------------|----------------------------|
| TYPE OF LIQUID | Gravel-sand mixtures |
| LIQUID SUPPLY | 350-3800 m ³ /h |
| PRESSURE | 20-72 m |



PUMP UNITS WITH OIL PUMPS OF THE CNSN TYPE (FOR OIL)

| | |
|----------------|--------------------------|
| TYPE OF LIQUID | Oil |
| LIQUID SUPPLY | 48-360 m ³ /h |
| PRESSURE | 110-490 m |



PUMP UNITS WITH PUMPS OF TYPE 1SCN (FOR LIGHT OIL PRODUCTS)

| | |
|----------------|-------------------------|
| TYPE OF LIQUID | Light oil products |
| LIQUID SUPPLY | 75-90 m ³ /h |
| PRESSURE | 70-80 m |



PUMP UNITS WITH PUMPS OF TYPE ODN (FOR VISCOUS LIQUIDS)

| | |
|----------------|---------------------------|
| TYPE OF LIQUID | Viscous liquids |
| LIQUID SUPPLY | 36-1000 m ³ /h |
| PRESSURE | 20-92 m |



PUMP UNITS WITH SLURRY PUMPS

| | |
|----------------|---------------------------|
| TYPE OF LIQUID | Gravel-sand mixtures |
| LIQUID SUPPLY | 230-560 m ³ /h |
| PRESSURE | 33-72 m |



PUMP UNITS WITH PUMPS OF TYPE 1SCN (FOR LIGHT OIL PRODUCTS)

| | |
|----------------|---------------------------|
| TYPE OF LIQUID | Foaming composition |
| LIQUID SUPPLY | 144-360 m ³ /h |
| PRESSURE | 83-114 m |



PUMP UNITS FOR PUMPING MANURE

| | |
|----------------|--------------------------|
| TYPE OF LIQUID | Liquid manure |
| LIQUID SUPPLY | 36-800 m ³ /h |
| PRESSURE | 17-150 m |



PUMP UNITS WITH DIESEL ENGINE FOR DRILLING WELLS

| | |
|----------------|--------------|
| TYPE OF LIQUID | Drilling mud |
|----------------|--------------|

BLOCK-MODULAR PUMPING STATIONS

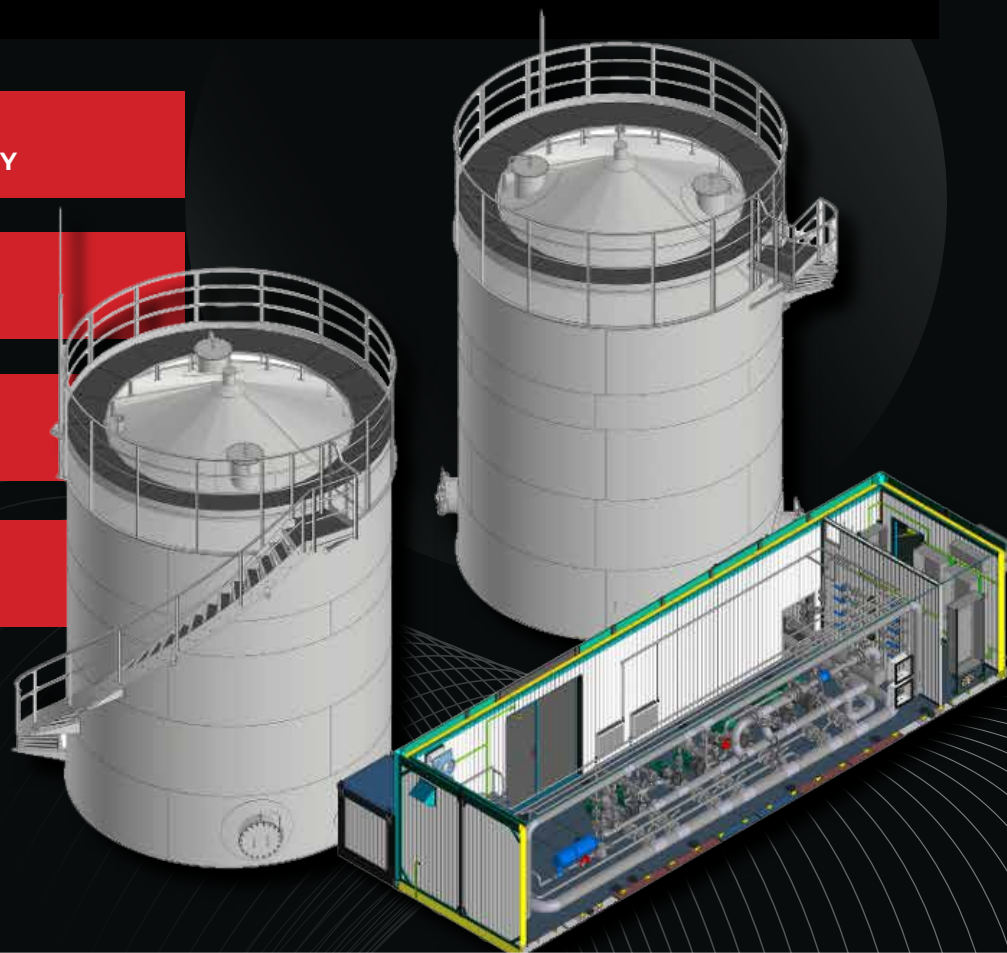
- SPECIALLY DESIGNED MODULAR CONTAINER
- DIESEL AND ELECTRIC ACTUATORS
- AUTOMATIC CONTROL SYSTEMS
- FULL RESPONSIBILITY OF A SINGLE CONTRACTOR

DEWATERING
IN MINING INDUSTRY

INDUSTRIAL
WATER SUPPLY

FIRE SUPPRESSION

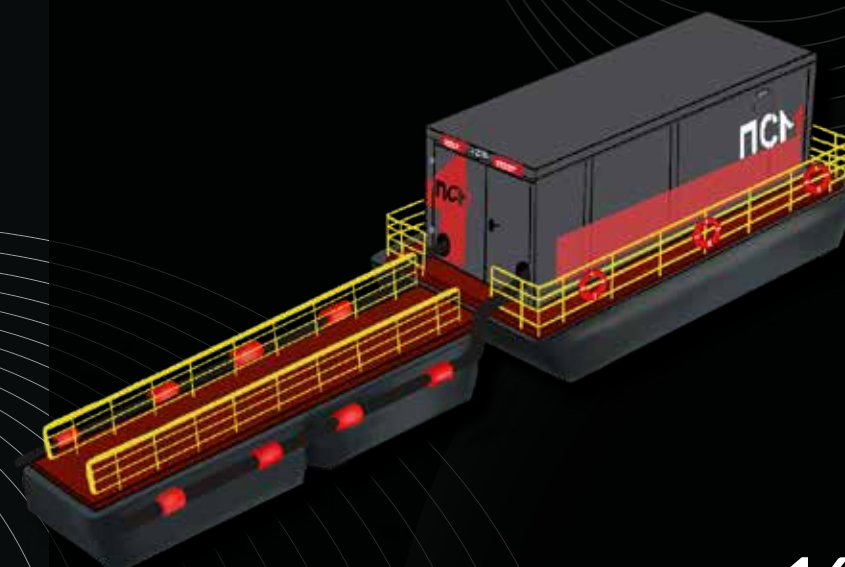
IRRIGATION



FLOATING PUMP STATION

WE PRODUCE FLOATING PUMPING STATIONS FOR INTAKE FROM SURFACE SOURCES WITH UNSTABLE WATER LEVELS — AN IDEAL SOLUTION TO REDUCE THE OPERATING COSTS OF YOUR PUMPING EQUIPMENT

FLOATING PUMPING STATION IS A PUMPING EQUIPMENT IN A CONTAINER MOUNTED ON A METAL PONTOON



SERVICE THROUGHOUT RUSSIA

WE OFFER FLEXIBLE CONDITIONS — **ON-DEMAND MAINTENANCE OR A SERVICE CONTRACT FOR** DIAGNOSTICS AND MACHINE MAINTENANCE



COMMISSIONING SUPERVISION



CAPITAL REPAIR PLANS



DIAGNOSTICS, REPAIR AND MODERNIZATION OF EQUIPMENT



SELECTION AND ORDERING OF SPARE PARTS



OPERATION (PERMANENT PRESENCE OF PSM ENGINEERS AT THE FACILITY)



COMPONENTS OF THE ENTIRE LINE OF EQUIPMENT OF ANY BRAND
4000 SPARE PARTS IN STOCK



PSM SERVICE ENGINEERS TRAVEL TO THE MOST REMOTE REGIONS OF RUSSIA AND NEIGHBORING COUNTRIES





**SMART
TRADE**

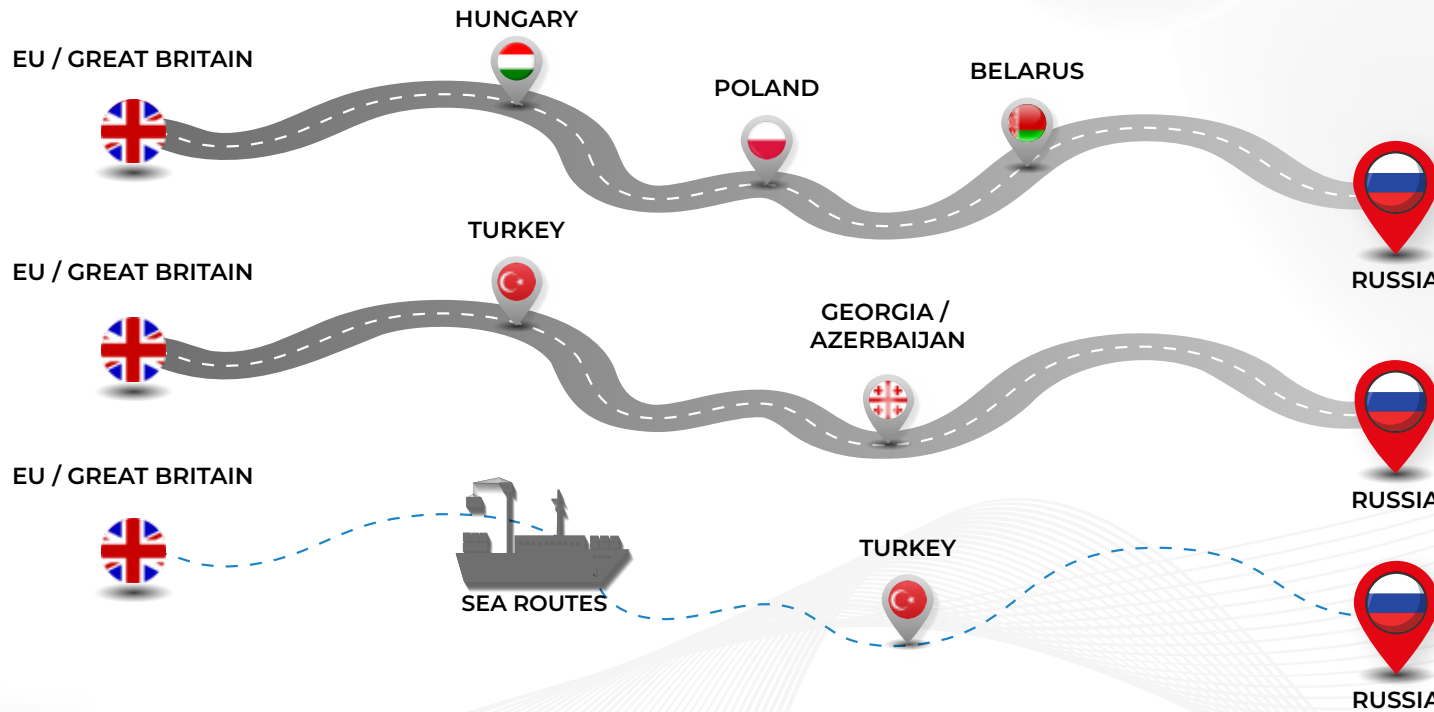
THE MAIN LOGISTICS PSM PARTNER
INTERNATIONAL DELIVERIES OF EQUIPMENT

**DELIVERY
CYCLE**



LOGISTICS SYSTEM

DEVELOPMENT
OF MORE COMPLEX
INDIVIDUAL LOGISTICS
ROUTES



PARTNERSHIP PROGRAMS

INTERNATIONAL NETWORK OF OWN COMPANIES

RUSSIA

HUNGARY

- YEAR OF FOUNDATION: 2013
- TURNOVER: € 15 MILLION
- WAREHOUSES IN HUNGARY AND POLAND

KYRGYZSTAN

CHINA

- HONG KONG

TURKEY

- ISTANBUL
- OFFICE WITH EMPLOYEES
- DELIVERIES TO RUSSIA AND CIS COUNTRIES
- PAYMENTS IN TRL (TURKISH LIRA)

UAE

- FREE ZONE DUBAI
- OPENING - JULY 2023
- FINANCIAL TRANSACTIONS RUSSIA ↔ DUBAI IN USD, BTC
- TRANSIT DELIVERIES OF GOODS
- ASSISTANCE IN BUYING CARS, ELECTRONICS, LUXURY GOODS, ETC

PSM EVENTS

**AUGUST 31,
2022**

VISIT OF A DELEGATION LED BY RUSSIAN PRIME MINISTER
M.V. MISHUSTIN TO THE PSM FACTORY «KRASNY BOR»



**JULY 29,
2022**

MEETING OF THE DELEGATION HEADED BY RUSSIAN MINISTER
OF ECONOMIC DEVELOPMENT M.G. RESHETNIKOV AT THE PSM
FACTORY «PRIME»



**MAY 13,
2022**

MEETING OF PSM CEO ANDREY MEDVEDEV WITH THE MINISTER
OF INDUSTRY AND TRADE OF THE RUSSIAN FEDERATION
D.V. MANTUROV




**APRIL 25,
2018**

PSM CEO ANDREY MEDVEDEV DISCUSSED PRIORITY ISSUES
OF THE POWER ENGINEERING INDUSTRY AT A MEETING
OF ENTREPRENEURS OF THE YAROSLAVL REGION WITH
RUSSIAN PRESIDENT VLADIMIR PUTIN



COOPERATION WITH PSM

CONTACTS

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 PSM@POWERUNIT.RU

 WWW.POWERUNIT.RU

PSM REPRESENTATIVE OFFICES

HEADQUARTER

OFFICE IN YAROSLAVL

RUSSIA, YAROSLAVL, REPUBLICAN STR., 73

PSM-CITY

SALES OFFICE IN THE BUSINESS CENTER OF MOSCOW CITY

RUSSIA, MOSCOW, PRESNENSKAYA EMBANKMENT, 12,
FEDERATION-EAST TOWER, 80 FLOOR

FACTORY «KRASNYI BOR» (SINCE 2005)

RUSSIA, YAROSLAVL REGION, KRASNY BOR VILLAGE, 2B

FACTORY «MASTER» (SINCE 2013)

RUSSIA, YAROSLAVL REGION, TUTAEV, PROMYSHLENNAYA STR., 27

FACTORY «PRIME» (SINCE 2021)

RUSSIA, YAROSLAVL REGION, TUTAEV, PROMYSHLENNAYA STR., 23B

STAY INFORMED!



@PSM_COMPANY



@POWERUNITRUPSM

INSTAGRAM.COM/PSM_COMPANY



**MORE INTERESTING INFORMATION
ON THE PERSONAL BLOG OF PSM CEO
ANDREY MEDVEDEV ON TELEGRAM!**

