



## PEZETEL

Foreign Trade Enterprise Ltd.  
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**DIESEL ENGINES. GEN-SETS.**  
**POWER PACKS UP TO 400 kW (550 HP) –**  
made under Leyland and Manacel experience.  
**MARINE UNITS**

Engine components (crankshafts, slide bearings, vibration dampers,  
cylinder liners, pistons).

Fuel injection equipment, turbochargers, hydraulic and pneumatic.



latest engine features available in "PS" Industrial Group have a 50% share in the total sale costs of the group. The range of the manufacturing capabilities—(in kW) is 1 to 15000.

#### Foreign Trade European PEETEL

Trade links in export and import, representing the foreign stream. Export offers include diesel engines, generating sets, power industrial units parts based. Also the mechanical stream equipment, maintenance of equipment stocks and other forms of value preservation activities abroad are taken care of by PEETEL, and/or the respective selling agents and distributors networks in foreign markets.

One of the main PEETEL's objectives is also supplying third industries with engines of foreign make (and spare parts), as well as procurement from abroad of new technologies, generating set know-how on the basis of license agreements, cooperation and cooperation contracts and royalties. The diesel engine production within the Group is concentrated in manufacturing plants. The necessary backup is given by a dense of mechanical manufacturing factories, making engine components and sub-assemblies.

#### Engine making plants

"PS...MAGAS" — manufactures the engines (PS 1000, 2000, 3000) and according to Mercedes-Benzel 12 18 motor, etc. (Volume of production: 10000/year—designated year).

"PS...MAGAS" — production according to Leyland (PS 500 and 600) and 2000 series. 20000/year (yearly) production facility in fuel injection group. One 4 cylinders types P1, P2, P3, P4.

"PS...MAGAS" — manufactures more than 10000/year, 2000 based according to Leyland (PS 400) engines. The factory manufactures also the first power engine of own design.

The engines from the above mentioned plants are used in 30-50 kW power

generating sets, power sets for oil drilling, marine engines with reduction gear using gear according to MAN, Sauer and high-speed diesel according to PERMAN. Some available from own manufacturing facilities.

Also used in construction machines, tractors, buses, locomotives, heavy-duty dumptrucks etc. The specifications below give some technical data of PEETEL's improved generating sets.

Automotive engines made under licence. Best known can be demonstrated with 2000 series made according to JF (Daimler-Benz) — R. Germany) Series.

"PS" Group includes also a number of specialized factories in manufacturing departments of big plants designed and built for the purpose out-equipped with modern machine tools and production equipment. These factories' capacities however are limited to production of changing components and assemblies used for a reliable and complete work of integrated structures.

Examples below show the range of applications (in kW):

#### Technical Data of PEETEL — Engines

| Type     | Data     |           |           |           |           |           | Applications |
|----------|----------|-----------|-----------|-----------|-----------|-----------|--------------|
|          | PS 1000  | PS 2000   | PS 3000   | PS 4000   | PS 5000   | PS 6000   |              |
| PS 1000  | 1100 kW  | 2200 kW   | 3300 kW   | 4400 kW   | 5500 kW   | 6600 kW   | 1000-6000    |
| PS 2000  | 2200 kW  | 4400 kW   | 6600 kW   | 8800 kW   | 11000 kW  | 13200 kW  | 2000-13000   |
| PS 3000  | 3300 kW  | 6600 kW   | 9900 kW   | 13200 kW  | 16500 kW  | 19800 kW  | 3000-20000   |
| PS 4000  | 4400 kW  | 8800 kW   | 13200 kW  | 17600 kW  | 22000 kW  | 26400 kW  | 4000-30000   |
| PS 5000  | 5500 kW  | 11000 kW  | 16500 kW  | 22000 kW  | 28500 kW  | 35000 kW  | 5000-40000   |
| PS 6000  | 6600 kW  | 13200 kW  | 19800 kW  | 26400 kW  | 33000 kW  | 39600 kW  | 6000-50000   |
| PS 10000 | 11000 kW | 22000 kW  | 33000 kW  | 44000 kW  | 55000 kW  | 66000 kW  | 10000-100000 |
| PS 15000 | 16500 kW | 33000 kW  | 49500 kW  | 66000 kW  | 82500 kW  | 99000 kW  | 15000-150000 |
| PS 20000 | 22000 kW | 44000 kW  | 66000 kW  | 88000 kW  | 110000 kW | 132000 kW | 20000-200000 |
| PS 30000 | 33000 kW | 66000 kW  | 99000 kW  | 132000 kW | 165000 kW | 198000 kW | 30000-300000 |
| PS 40000 | 44000 kW | 88000 kW  | 132000 kW | 176000 kW | 220000 kW | 264000 kW | 40000-400000 |
| PS 50000 | 55000 kW | 110000 kW | 165000 kW | 220000 kW | 285000 kW | 350000 kW | 50000-500000 |
| PS 60000 | 66000 kW | 132000 kW | 198000 kW | 264000 kW | 330000 kW | 396000 kW | 60000-600000 |

PS 1000-6000



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"PS...MAGAS" — production of 2000 series engines, etc. The range of 100000 kW.

Manufacturing 1000-6000 kW.

"PS...MAGAS" — production of 2000 series engines.

Manufacturing 2000-13000 kW.

"PS...MAGAS" — production of 3000 series engines, etc. The range of 30000 kW.



Approximate range of available dimensions:

Length - 100 - 1000 mm

Min. bearing placed outside diameter:  
20 - 100 mm

Outside diameter of: 20 mm.

Other features:

Industrial handling technology.

**FEL-RESON** - wide range of various technical vibration dampers and technologies for engine industry. For detailed data of approximate diameter/diameter from 200 mm to 600 mm.

The production of technologies include the following types:

| According to<br>kinds of | Technology<br>Type |
|--------------------------|--------------------|
| *Major dampers           | MRV, MRV, MRV      |
| *Minor, Special          | MRV, MRV, MRV      |
| <b>Specialized</b>       |                    |
| *Automated               | YTR, YTR           |
| *Automated, YTR          | YTR, YTR           |
| <b>Others</b>            |                    |

Manufacturing in  
steel, cast iron  
and cast steel  
with a variety of cylinder

Pressure  
up to  
10 - 10 bar

Production of  
oil and water

10 - 100 mm  
10 - 10 - 10 mm

Approved in  
all countries

### Technical Data of Operating Unit

| Type | Flow             |                  |                  | Pressure         |                  |                  | Type | Flow | Pressure |
|------|------------------|------------------|------------------|------------------|------------------|------------------|------|------|----------|
|      | Q <sub>max</sub> | Q <sub>nom</sub> | Q <sub>min</sub> | P <sub>max</sub> | P <sub>nom</sub> | P <sub>min</sub> |      |      |          |
| 100  | 100              | 100              | 100              | 100              | 100              | 100              | 100  | 100  | 100      |
| 150  | 150              | 150              | 150              | 150              | 150              | 150              | 150  | 150  | 150      |
| 200  | 200              | 200              | 200              | 200              | 200              | 200              | 200  | 200  | 200      |
| 250  | 250              | 250              | 250              | 250              | 250              | 250              | 250  | 250  | 250      |
| 300  | 300              | 300              | 300              | 300              | 300              | 300              | 300  | 300  | 300      |
| 350  | 350              | 350              | 350              | 350              | 350              | 350              | 350  | 350  | 350      |
| 400  | 400              | 400              | 400              | 400              | 400              | 400              | 400  | 400  | 400      |
| 450  | 450              | 450              | 450              | 450              | 450              | 450              | 450  | 450  | 450      |
| 500  | 500              | 500              | 500              | 500              | 500              | 500              | 500  | 500  | 500      |
| 550  | 550              | 550              | 550              | 550              | 550              | 550              | 550  | 550  | 550      |
| 600  | 600              | 600              | 600              | 600              | 600              | 600              | 600  | 600  | 600      |
| 650  | 650              | 650              | 650              | 650              | 650              | 650              | 650  | 650  | 650      |
| 700  | 700              | 700              | 700              | 700              | 700              | 700              | 700  | 700  | 700      |
| 750  | 750              | 750              | 750              | 750              | 750              | 750              | 750  | 750  | 750      |
| 800  | 800              | 800              | 800              | 800              | 800              | 800              | 800  | 800  | 800      |
| 850  | 850              | 850              | 850              | 850              | 850              | 850              | 850  | 850  | 850      |
| 900  | 900              | 900              | 900              | 900              | 900              | 900              | 900  | 900  | 900      |
| 950  | 950              | 950              | 950              | 950              | 950              | 950              | 950  | 950  | 950      |
| 1000 | 1000             | 1000             | 1000             | 1000             | 1000             | 1000             | 1000 | 1000 | 1000     |

**FEL-RESON** - manufacturing of  
systems for fuel injection systems in the  
internal combustion engines and for  
boats used in the powerhydraulic  
systems.

**FEL-RESON** - big factory of  
technology. The factory equipped to  
produce technology made by FEL and  
providing. Fuelwater pumps, engine  
dampers and hydraulic cylinders for  
boats and many foreign models of  
boats, combustion engines and marine  
longpower-boat engines. Experienced in  
production of ship engines for all  
construction projects of vehicles.

**FEL-RESON** - produce of  
systems for power hydraulics and  
components in the branch of power hydraulics  
in FEL. The range of products covers  
the following items:

- hydraulic multi piston pumps, gear  
pumps and gear pumps.
- hydraulic actuators (manipulators)  
controlled by hand or electromagnet  
valve.
- hydraulic valve, safety valve.
- valves to maintain the great pressure  
in system.
- components of hydraulic testing  
systems.

**FEL-RESON** - produce and of  
low water and external solutions, oil  
water and water pumps for cooling  
systems.

**FEL-RESON** - experienced manufacture  
are specializing in fuel injection equip-  
ment, injectors, pump elements, pistons,  
piston rings, pistons, injectors and in-  
jection pumps for large range of diesel  
engines.

**FEL-RESON** - manufacture of  
high pressure hydraulic equipment ac-  
cording to drawings to German.

- variable delivery range pumps
- pressure and flow control valves and  
regulators.
- check valves, pressure switches, etc.
- manual, mechanical and automatic ap-  
plied directional control valves.

