



«MASHZAVOD» Ltd

70 YEARS OF
PRODUCTION



**Ukraine
Chernivtsi**

Capabilities

Products

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**Our
partners**



Mashzavod Ltd manufactures steel welded vessels and apparatuses that work under pressure up to 16,0 MPa (160 kgf/cm²), with loading in bulk and in vacuum with diameter up to 4000 mm, made of carbon, low- & high-alloyed, heat-resistant steels, bimetals for oil-refining and petrochemical enterprises, gas- & oil transmission systems, for gas and oil fields development, LPG storage terminals and other equipment.

The plant is equipped with machine-tool fleet for all types of metal working, welding equipment for all methods of welding, press-forging machines, rounding machines, metal stamping and cutting machines, furnaces for heat treatment and other special equipment.

Our experience covers equipment manufacturing both on the basis of our own project design and on the basis of technical specifications, projects of engineering companies and of our Clients.

We are proud of our designs and calculations, as well as of calculations, made in cooperation with the leading institutes of CIS countries and foreign engineering companies, that let our Clients to reduce heat losses and to increase equipment production, and in the same way to save resources significantly in the period of its exploitation.

All operations, performed by our enterprise, are completely supported by appropriate policy in the field of production safety, health and environment protection, that were worked out to meet the national and foreign requirements.

Products - "Mashzavod" Ltd



Column apparatuses



Heat-exchanging apparatuses



Evaporators



Capacitive Cylindrical apparatuses



Separators



Dust separators



Scrubbers



Module-unit -construction



Connecting pieces



Reactor equipment

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Column apparatuses



Are designed for rectification, absorption, adsorption, desorption, cooling and purifying, with diameters from 300 up to 4000 mm in assembly; with diameters more than 4000 mm - in parts, with different types of contact devices (trays):

- straight way valve trays;
- valve ballast trays;
- sieve;
- S-shaped valve trays;
- valve trapezoidal trays;
- nozzle-type trays, irregular (Rushing rings);
- sieve with baffle elements;
- grid-type trays;
- bubble trays;
- sieve-valve trays.

Products

Heat-exchanging apparatuses

with diameter from 100 up to 2000mm

- shell-and-tube type with increased heat efficiency, with diameters 159÷1400mm, of ТП, ТУ, ХП, КП types;
- shell-and-tube type heat-exchangers with fixed tube plate and shell-and-tube type heat-exchangers with on-shell temperature compensator;
- "gas-gas" type heat-exchangers for cooling and differential condensation of natural gas;
- shell-and-tube rod type heat-exchangers with longitudinal baffle plate;
- "tube-in-tube" type heat-exchangers, single-flow and multi-flow;
- tube bundles.



Products

Evaporators

with diameter from 800 up to 2000mm types ИП, ИУ steam volume and thermosyphon evaporators.



Products

Capacitive cylindrical apparatuses

with diameter up to 5000mm with operating pressure up to 16,0 MPa:

- horizontal and vertical tanks for gas and liquid media;
- butane storage tanks БС 50÷200 and propane storage vessels ПС 10÷200;
- air receivers;
- underground drainage tanks;
- liquid separators with volume up to 63 m³;
- electric dehydrators and thermo dehydrators for dehydration and desalination of petroleum and gas condensate;
- steel horizontal cylindrical above-ground and underground flat-bottom storage tanks with volume up to 200 m³, applied for petroleum product storage loading;
- tanks for automobile gas-filling stations



Products

Separators

with diameter from 200 up to 3000mm, pressure up to 15.2 MPa:

- grid-type gas separators (ГС) designed to purify natural gas from impurities;
- oil and gas separators;
- input separators for high;
- flare separators;
- gas separators, gas –liquid separators, oil and gas separators



Products

Dust separators

for cleaning natural gas from mechanical impurities and liquids with diameter from 800 up to 2400 mm.



Products

Scrubbers

air scrubbers and nitrogen scrubbers with diameter up to 3400 mm



Products

Module-unit-construction

equipment for oil-and-gas industry:

- units, applied for purifying, measuring, drying and storage of impulse gas, gas heating units;
- dust separator units for pressure up to 7,5MPa;
- filter-separator units;
- glycol regeneration units with productivity $Q =$ up to 30 m³/h;
- heat-carrying agent heating units with productivity $Q =$ 25 m³/h;
- gas heating units $Q =$ 10 000, 30 000 m³/h;
- process modules for automobile gas-filling stations $V =$ 10 m³



Products

Connecting pieces

FOR MAIN GAS AND PETROLEUM PIPELINES with Pp up to 9,8 Mpa (100kgs/cm²) with outer diameter up to 1420 mm: bends OKШ and OCC, tees TC, TCH, TШ, TШC and TШCP, adapter ПШ and ПШC, heads ДШ, adapter rings КР.



Products

Reactor equipment

with diameter up to 4000 mm, pressure up to 16.0 MPa.



Products

Capabilities - «MASHZAVOD»Ltd



**Technological
capabilities**



Welding

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Technological capabilities - «MASHZAVOD» Ltd

- guillotine shears for cutting of details from profile rolled steel with thickness up to 24mm;
- horizontal bending rolls for the bending of details from profile rolled steel with thickness up to 70mm cold rolling and up to 110mm hot rolling;



- the mechanical press by force 63-315 t for cold stamping;
- the hydraulic press by force up to 1000t for the details stamping profile rolled steel in cold and hot;

Capabilities
«MASHZAVOD»Ltd

- equipment for the thermal cutting is gas-cutting machine Kometa-3,6K. Maximum dimensions of plates in process: 8000x3600x200 mm. Accuracy reproduction of limit contour +/-0,35 mm;
- equipment for the thermal cutting is Plasma arc-cutting unit Powercut-1500 for high-alloyed steel with thickness up to 38mm;
- equipment for the thermal cutting is flux - oxygen cutting unit for the cutting with thickness the up to 200 mm;



- lathe machining with a diameter of processing over a support of 800 mm, up to 6000 mm processed detail long;
- rotary processing with a diameter of processing up to 5000 mm;

The park of machines for the details machining makes about 200 units.

Capabilities
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Heat treatment of the products is made:

in gas furnaces with the sliding hearth:

- high tempering (post welded processing) 650° - 700°C of welded constructions with the dimensions up to 2800kh4000kh4000mm;
- tempering (post welded processing) 650° - 700°C, quenching (austenization) of 1100°C of welded construction up to 5300kh2500kh1800mm;
- normalization 900 ° - 950 °C of the details with dimensions up to 1200kh1500kh3000mm;

in electric furnaces:

- quenching 1000 °C, normalization, annealing, tempering of details including tool production, stamps, devices with dimensions up to 600kh600kh1500mm, 900kh400kh800mm;
- Standard Europe 45/72 unit for local heat treatment of welded seams with the maximum temperature of 850 °C.



Welding - «MASHZAVOD» Ltd

Welding performance of the plant apply welding technologies, certified by independent inspection according to EN 15614-1; EN 15614-7; EN 15614-8; ASME CODE 2013 sec IX, that enables to make welding structures of carbon, low-alloyed, heat-resistant, high-alloyed steels, bimetal, alloys with application of manual (SMAW), argon-arc (GTAW), semi-automatic in atmosphere of shielding gases (GMAW), automatic flux (SAW) welding and to make corrosion-resistant overlay welding (including brass).



Welding operations are performed by qualified welders and controllers of welding facilities, certified according to the requirements of national (НПАОП 0.00-1.16-96 – regulatory legal act on labor safety) and foreign (EN ISO 9606-1; EN ISO 14732; ASME CODE 2013 sec IX) regulatory documents.

Capabilities
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Only materials of high quality, as well of the leading foreign manufacturers (BOHLER WELDING), are used at welding.

For automatic and overlay welding the modern welding facilities of ESAB Company are used. Automatic computer-controlled flame cutting, manual plasma cutting, flux-oxygen cutting are performed.



It enables to make welding joints, ensuring requirements on quality according to the corresponding regulatory documents.



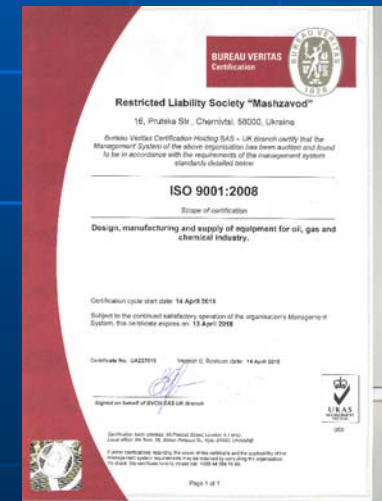
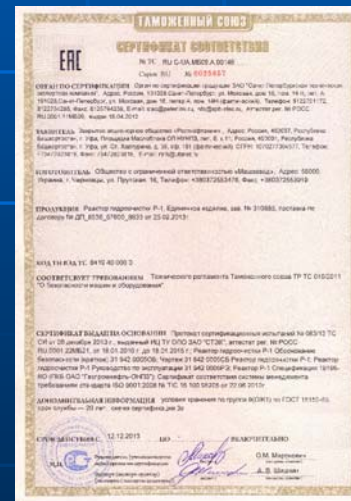
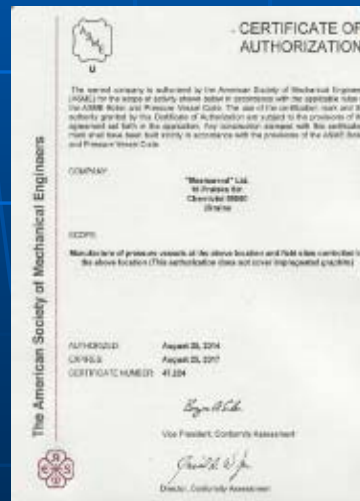
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Certificates - «MASHZAVOD» Ltd

In 2003 our enterprise has implemented and constantly improves the Quality Control System according to the requirements of ISO 9001, and in April 2015 it was for the fifth time confirmed by international certificate, issued by the Company of global renown Bureau Veritas Certification. The quality of goods manufactured for supplies in Ukraine is confirmed by certificates of conformity in UkrSEPRO system (Ukrainian national system of certification) and according to the Technical Regulation for pressure equipment. For supplies to the countries of the Customs Union – in GOST R system (National standard of the Russian Federation) and Technical Regulations of the Customs Union TP TC (TR CU) 010/2011 “On safety of machinery and equipment” and TP TC (TR CU) 032/2013 “On safety of excessive pressure equipment”.

The goods, manufactured for countries of European Union, are certified according to the requirements of European Directive 97/23/EC.

Since 2000 our plant is certified and has a permission to manufacture pressure equipment according to the requirements of the American Society of Mechanical Engineers standard ASME Sec.VIII div.I and div.II with “U” and “U2” stamping.



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Our partners - «MASHZAVOD» Ltd

We have many years of experience in cooperation with various well-known foreign Companies, among which are:



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Contacts - «MASHZAVOD» Ltd

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