



VACUUM PRESSURE IMPREGNATING INSTALLATIONS

VOLNA

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For more than 25 years heretofore Volna company has been your reliable partner in manufacturing and service of electrical equipment. For the quarter-century the company has grown up from a small factory to a corporation with extensive industrial capabilities adequate to perform any project however complicated, to design and produce reliable and durable high-performance state-of-the-art equipment.

Volna company successfully practices **complex approach to equipping industrial sites**, designs and manufactures industrial chamber electric furnaces, impregnating installations, electrical equipment test benches, balancing machines, shaft build-up welders and other machinery.

The use of vacuum pressure impregnation (VPI) is accepted by all the world leaders in mechanical engineering: Siemens, ABB, WEG, General Electric, etc. The vacuum pressure technique ensures penetration of impregnating compound into every hollow of the product, closes every air cavity, and ensures high quality.

Volna experts provide **consulting on requirements elaboration stage**. Years of expertise in technology ensures that through the target-oriented consulting our customer gets what he needs in a co-developed concept. We apply state-of-the-art technologies to design and manufacture impregnating installations for resins and lacquers of whatever kind.

The range of our products includes both small portable machines and fully automatic impregnating installations for industrial applications.

Impregnating installations by Volna **comply with safety standards of the Customs Union Technical Regulations**.

We will be happy to become your supplier of high-quality equipment.



VACUUM PRESSURE IMPREGNATING INSTALLATIONS

Impregnating installations are intended to impregnate parts, including electrical machine coils, with impregnating compounds using the vacuum pressure technique in automatic or manual mode according to the Customer's process.

Specifications:

Inner diameter	200..3800 mm
Effective length	300..26000 mm
Maximum pressure	1.2 Mpa
Maximum temperature	400°
Autoclave material	Structural stainless steel
Illuminated sight glass	Available
Control system	Controller



Impregnating installation scope of supply:

- Autoclave, impregnating compound container, may be equipped with induction/water heater, cooler, and/or stirrer
- Automatic (hydraulic, pneumatic) autoclave cover lifter with an emergency holder triggered by pressure drop or power failure
- Shutter system: screw, bayonet, etc.
- Automatic drive: hydraulic, pneumatic
- Ball valves with linear electric drive
- Vacuum pump with a steam trap
- Programmable automatic impregnation control system based on active intelligence components by Delta Electronics to configure, adjust and control the entire process directly at the control panel

The scope of supply may be amended as required by the Customer.



VACUUM IMPREGNATION IN CASTIN

Impregnation installations by Volna are intended to seal micropores of products, shrink holes and microfissures, by deep filling with anaerobic sealant, thus, making the products impenetrable to corrosive liquids and gases, even under pressure.

Operating principle: the installation evacuates air from the container with parts so as to create vacuum there, charges the container with impregnating compound to impregnate the parts, i.e. to fill micropores with the impregnating compound.

VACUUM IMPREGNATION FOR WOOD

Wood is impregnated to improve protection and fire resistance and to attribute additional properties to the material.

Through industrial impregnation the protective compound deeply settles in the wood so that it would be impossible to remove. A jacket of metal microparticles contained in the preservative makes the wood even more robust and protects it against internal and internal effects.

Wood subjected to deep impregnation will not decay even in soil for many years.

Impregnating installation safety system:

- Digital pressure transducers with programmable upper limit
- Pressure relief valve
- Emergency shutdown button at the local control panel
- Autoclave body heat screen
- Impregnating compound limit sensors
- Software lock to prevent cover opening under pressure or vacuum
- Cover opening personnel alert safety system





High energy efficiency



Lower operating expenditure

Durability



Lower capital expenditure

High impregnation quality



Lower defect rate

Settings maintenance



Stable manufacturing process

High degree of automation



Lower labour costs

Built-in safety system



Safe manufacturing process

SERVICES:

- Technical consulting
- Installation supervision, adjustment and start-up
- Delivery
- Diagnostics and maintenance
- Spare parts supply
- Repair and upgrade



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