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What sets us apart from others:

**TECHNOLOGY**

**HYDROPRESS**

Hydropress Sp. z o.o. delivers comprehensive technologies and services for the sector of self-service, touchless car washes. We provide services related with car wash production, installation, maintenance and management. We have been successfully present in the market for 12 years, being recognized by investors and customers.

Our team is composed of engineers, constructors and experts in power hydraulics. Our specialized personnel provide professional technical advice for implementation of any individual project. Comprehensive management of orders, starting from the design phase through its implementation and follow-up to complete maintenance services in the course of operation of the car wash, represents a strength.

Quick delivery as well as pre- and after-sales services constitute the advantages of our company enabling us to keep on developing in Poland and in other European countries.

Our offer includes numerous technological novelties, due to which it is more attractive in comparison with competitors in the domestic and foreign markets. Our business partners can always rely on technological advice, construction-related consultancy and legal services for the entire project.

**48h**

**What sets us apart from others:**

- High level of car wash operation cost SAVINGS
- Integrated PAYMENT system
- Wide selection of heat delivery TECHNOLOGIES
- FLEXIBLE offer and customization to the individual needs of the customer
- Innovative solutions for CAR WASH NETWORKS available for individual customers
- THE MOST EXTENSIVE selection of washing programs on the market
- 24h Quick delivery as well as pre- and after-sales services constitute the advantages of our company enabling us to keep on developing in Poland and in other European countries.

Our offer includes numerous technological novelties, due to which it is more attractive in comparison with competitors in the domestic and foreign markets. Our business partners can always rely on technological advice, construction-related consultancy and legal services for the entire project.
The car wash technology is embedded in a module made of stainless steel. Dimensions of the module: 3.8 m long / 1 m wide / 2.4 m high.

The modular solutions of the car wash are designed in a manner allowing for adapting the system to individual requirements. This way, space can be saved if the future car wash location covers a small surface.

Process components are located in a container made of 75 mm thick sandwich panels. The following technical equipment of the car wash is placed inside the container:

- control system,
- high pressure pump assembly,
- water softening equipment,
- reverse osmosis equipment,
- water heating system,
- system for coin suction from operator panels and a safe box where the extra coins are delivered.

Container car wash solutions have several important benefits. Placing the technology components in a container allows for unobstructed service access to appliances, as well as for the purposes of renovation or repair. A container provides perfect storage for extra consumables.
HOW THE CAR WASH IS BUILT

ATTIC

PROCESS CONTAINER
Made of sandwich panels with a 75 mm thick mineral wool core, serves as a storage space.

STRUCTURE
Includes IPE sections, L-sections, pipes made of carbon steel and hot-dip galvanized links, roof made of galvanized and powder-coated box profile metal steel, Galvanized and painted steel gutters.

INTEGRO CHANGE MACHINE

07
08

STATIONS EQUIPMENT

OUTDOOR STATION FOR LARGE VEHICLES

ROTATING ARMS

OPERATOR PANELS
Made of stainless steel, equipped with anti-moisture protection, display with buttons. Each cabinet is insulated and equipped with a 25 W heater, which protects against low temperatures. Standard coin detector programmed to work with 2/5 coins and tokens.

GUN WITH LANCE

GUN HOLDER

BRUSH WITH LANCE

BRUSH HOLDER

FLOOR MAT BEATER
Hydrospress car washes operate mostly with open water circulation – water drawn directly from the water supply system ensures protection from bacteria that would form in stagnant water. The heating module installed in the car washes are heaters manufactured by the Belgian company A.O. SMITH – a leader in the sector.

- 45–55 kW A.O. SMITH – used in 2-3 station car washes,
- 60-80 kW A.O. SMITH – used in 4-5 station car washes,
- 80–100 kW A.O. SMITH – used in 6 station car washes.

ADVANTAGES OF BOILERS MADE BY A.O. SMITH:

• Minimum costs, maximum performance,
• Increase resistance to build-up of scale,
• Quick heating of water.

A special layer of enamel applied to our water heaters together with the PemeraGlas Ultra Coat protective layer ensure exceptional durability of our products and provide excellent protection against corrosion. The special coating process is a trademark of A.O. Smith.

For 15 years, as a standard, A.O. Smith applies a highly efficient technology of condensation used in the production process.

This is why our devices provide a high level of comfort and energy efficiency.
WATER OSMOZ WATER RECOVERY AND SOFTENING SYSTEM

The reverse osmosis system allows for obtaining water that is purified from any water soluble chemical compounds, reaching purity levels of up to 95.8%. After going through the reverse osmosis filters water is used only for the "shining" program. Such a high purity level of demineralized water ensures that there are no marks on the paintwork after drying.

The system also includes a two-column, electronically controlled tap water softening system with automatic recuperation. Hard water with high calcium and magnesium content results in the formation of scale and deposits. Water softening prevents excessive wear of actuating elements and fittings, also significantly improving the quality of washing.
CONTROL AND AUTOMATION SYSTEM

The automation and control systems by Hydropress are innovative due to the use of top-class electronic parts from worldwide corporations, such as: EATON and MELLER.

With a proper design of the switchboard, we can very easily expand the car wash, adding more bays, or equip the existing technology with additional programmes for the car wash process, such as WHEEL BURNTOUT or BUG CLEANING SPRAY.

These options considerably boost the attractiveness of car washing for customers, which directly translates into higher profitability of the business.

It is also a great advantage of our automation systems that the car wash operation parameters can be remotely controlled through the Internet.

Upon logging to the operator’s panel, we can fully control the processes executed during the operation (settings of the individual operational parameters can be freely modified) and react quickly in the event of failures.

In case of any irregularities in the operation of the system, the investor is automatically notified of the fact with a short text message generated and sent by the automation system.
In the most extensive configuration, the touchless washing process with Hydropress technology is divided into 6 stages, which are activated successively on the operator panel. The device activates automatically after the payment and then the display shows how much time is left for washing the car. Every program may be stopped at any moment by pressing the STOP button.

**New Shining**, this is a program that combines the polishing and drying functions. The entire process is performed using reverse osmosis. Water with a shining polymer additive drips down the car body, thus eliminating the necessity for wiping and drying.

**Foaming.** Additional washing program. There is no doubt that one of the greatest innovations developed by Hydropress is extending its washing offer with another program, called FOAMING. Using a special low pressure system, the car is covered with a thick, aerated foam in the purpose of which is to soften the dirt before the main washing. With only 4 liters of water and Ultra Foam Spa cleansing agent, we obtain sensational washing effect.

**Powder washing** involves rinsing the car with softened water at 45 degrees, with an addition of Powder Spa micropowder. During this cycle, the heated water is mixed with the micropowder. Water under 105 bars of pressure is perfect for removing such fouling as mud and sand.

**Distance 20 cm**

**Distance 30 cm**

**Distance 40 cm**

**Rinsing.** This program uses water from water supply system. It is one of the most important actions before waxing. Just carefully rinse the foam from the car with coldwater, using the basic lance.

**Waxing**, this program uses hot water with polymer additive, the so-called Wax Spa waxing agent. This combination allows for obtaining a shine right after drying. An attractive look is combined with paint protection. The agents contained in the polymer additionally slow down the process of the vehicle becoming dirty again. The wax layer causes the rainwater to flow down the windows and car body, which definitely impacts the comfort and safety.

**Brush washing with active foam.** An easy to operate program for everyone. Simply choose the program and carefully wash away the dirt sticking to the car body using the brush. The program only uses 4 liters of hot water per minute. The program is recommended for dirt which is hard to remove. Properly used agents ensure paint maintenance. When using the Ultra Foam Spa brush, the cleaning agent concentration is 5-10 mL/car.

**NEW**

**Shining, this is a program that combines the polishing and drying functions. The entire process is performed using reverse osmosis. Water with a shining polymer additive drips down the car body, thus eliminating the necessity for wiping and drying.**

FIND US AT:

Hydropress car washes
WHAT SETS HYDROPRESS APART FROM THE COMPETITION?

1. PNEUMATIC CONTROL

Focusing on technological development, Hydropress was the first and the only company in the car wash production sector to design a pneumatic control system in its washing technology. The system has been implemented as a next stage of dynamic development of the self-service car wash, replacing solutions in form of membrane solenoid valves, which are much more prone to failure and tend to generate high operational costs. The innovativeness of the system results from the use of compressed air as an energy carrier to override the valves of individual programmes of the washing process and to supply the chemical dispenser system.

Compressed air used throughout the control process is generated with a compressor. The solution is highly reliable and the individual components of the system are highly durable. The top advantages of the pneumatic control include also:

- Speed and precision of operation of the pneumatic chemical dosing valves,
- Very low consumption of air in the control process,
- Due to their construction the valves do not require operation by the staff,
- Sealants used can withstand “aggressive” chemicals.

2. AUTOMATIC SHUT-OFF OF FLOOR HEATING IN THE PARTICULAR CAR WASHES

- a very energy-efficient system the role of which is to automatically shut down selected washing stations in the winter, when temperature falls below the temperature set in the car wash automation system, e.g. -10 degrees.

3. CONDENSING BOILERS FOR GAS SUPPLY

- high efficiency – due to their design technology, the boilers used in the heating systems of our car washes have a huge influence on gas savings.

FIND US AT: Hydropress car washes

INNOVATION

- [Image 187x417 to 437x429]
- [Image 739x-6 to 1684x601]
4. PNEUMATIC MONEY SUCTION
- pneumatic system for transporting coins from the operator panels at the vehicle washing stations to the safe box in the process container. Coins are transported by a turbine creating vacuum and drawing the coins into the safe box or to the change machine, creating a closed coin circuit.

5. STATE OF THE ART PROCESS COMPONENTS
- CAT high-pressure pumps, SIEMENS engines, WILO circulating pumps, GRUNDFOSS, OMAL valves, EATON automation.

6. STAINLESS TANKS
- for demineralized water, powder and mixers for particular chemicals, such as: WAX, SHINE, BRUSH LIQUID, RIM SPRAYING LIQUID, ANTI-INSECT LIQUID, ACTIVE FOAM LIQUID.

7. COPPER FITTINGS
- the whole water and heating installation is made of copper and brass.

8. LIGHT PROCESS CONTAINERS
- containers made with light-frame technology. The individual process components are installed in the container structure spaces specially designed for this purpose, which allows for easy access during service activities and allows to save a lot of space inside the container.

9. LAMINATED ADVERTISING BANNERS
- made with backlight technology, the banners are additionally laminated, which ensures a significantly higher resistance to external factors at the car wash.

10. PELLET-FUELED HEATING SYSTEM – NEW
- a detailed description of this technology is provided on page no. 25.
11. ADDITIONAL CAR WASH PROGRAMME - “ACTIVE FOAM”
High-efficiency foam applied under low pressure with adequately selected proportions of water and air mixture.
A programme that is innovative due to very low consumption of water and chemical products, with the best washing quality.

12. INTERNET-BASED CONTROL WITH YOUR SMARTPHONE AND COMPUTER
A system for remote viewing and modification of the car wash parameters with the use of the Internet. Through the use of a short-text
message notification system, we can be notified of failures in the facility’s operation, if applicable.

13. INTEGRATED SYSTEM FOR PAYMENT AND MONEY CHANGE – INTEGRO
The "INTEGRO" change machine, designed and made by Hydropress, undoubtedly represents the greatest innovation of the system.
It is fully integrated with the system for drawing in coins from operator’s panels and can be self-filled on an ongoing basis.
The car wash automation system is integrated with the change machine and constantly sends information about the number of the individual
coins that are transported from operator’s panels directly to the change machine. In the full automatic mode, the change machine is self-feeding
with the number of coins delivered in the process of bill change. Any excess of coins is automatically fed to the safe.

14. CARD PAYMENTS
The development of payment terminals for better driver comfort shows the care for customers. The designed and developed payment system
handles VISA and MasterCard cards. The sequence of payment operation starts from choosing a washing station and input the appropriate
amount required by the customer on the payment panel. After this amount is confirmed, the next stage is making the payment by putting a
payment card near or directly into the terminal. The payable amount automatically appears on the washing station. The terminal meets all the
legal requirements and is adapted to card/tax transaction standards and requirements. This innovative solution means time saving. The solution
is very friendly for most of the drivers and the easy-to-use interface simplifies its operation.

15. HIGH FLEXIBILITY OF THE CONTROL SYSTEM
Easy customization to individual user requirements and possibility to add new functions - our car washes are designed in a manner which allows
for their easy extension with successive stations and washing systems.
PELLET

INNOVATIVE PELLET

Pellet is biomass fuel used for heating water and floors in our car washes.

The system was created by Hydropress from scratch and relies on full automation of operation. The system automatically doses pellet fuel from the hopper to the boiler. A pellet-fueled heat distribution unit operates in full automation mode. Its routine operation requires only refueling the hopper. This allows for optimum fuel use for heating purposes, which is reflected in a significant reduction of operating costs.

Pellet is produced from dry sawdust using granulators – pressure and steam actions. No binder is added to the pellet, since wood itself contains lignin, a natural adhesive ingredient giving the pellet its form.

Pellet is considered to be one of the most effective energy sources due to its energy properties and user comfort. It is also an ecological fuel – carbon dioxide emission while burning is equal to the quantity of carbon dioxide absorbed by the tree during its growth and the small amount of ash left after the burning process. S.10 than 3.5 percent for pellet produced by Stelmet may be used as a fertilizer.

The pellet properties lead to a rapidly growing demand for this renewable energy source. While pellet production in Europe was 1.3 million tons in 2002, 5 million tons in 2006, it reached as much as 10 million tons in 2010.

THE SYSTEM INCLUDES:
• 60-100 kW pellet boiler,
• 3-8 m³ hot water buffer tank used in the car washing process.

2 kilo of pellet replace 1 liter of fuel oil and from 1 ton of burnt pellet you can achieve about 4 kilos of ash, changing pellet for fuel equals to lowering CO₂ emission about 2.5 kg for each liter of fuel. In addition, 2m³ of wood equals to 5 meters of silver that give 1 ton of pellet.

Benefits for your wallet
It is estimated that the fossil fuel resources (oil and natural gas) will be depleting during the lifetime of the user. The increased demand with the supply decreasing over time will cause a large increase of prices. Fossil fuels will be becoming less accessible for less wealthy societies. Growing prices of oil and gas will be causing the use of this fuel in small boilers to be uneconomic. However, the biofuel market, which is a local market, will be developing intensely. The increased consumption will be resulting in an increased production. Higher production favors the unitary costs to decrease. Biofuel price should be formed based on the costs and become independent from the changes in fossil fuel prices and global markets.

Benefits for environment
In addition to limiting CO₂ emissions, using biofuels contributes to a significant decrease in the emission of other gases and dust from short chimneys. "Low emission" means that all of the pollutants reaching the air we breathe appear in lesser concentrations. Once more Hydropress proves that we are familiar with the ecological approach to our creations.
Depending on the type of car wash (STANDARD, PREMIUM), the number of bays, the equipment used and the scope of design and project tasks, the costs of construction of a car wash range from PLN 0.5 million upwards.

For example, the costs of a STANDARD 3-bay car wash with minimum equipment, to be developed on a prepared ground, amount to PLN 0.5 million. The costs of a PREMIUM 6-bay car wash with full equipment, to be developed from scratch, amount to more than PLN 1.2 million.

In spite of the costs of the investment, management of a touchless car wash has a very high EBITDA profitability rate, which is why investors are willing to invest in touchless car washes. As estimated by the Auto-Spa Group, the EBITDA margin can reach even more than 45%. The estimated structure of costs to be incurred by the investor is shown in the chart below.

**Profitability of Touchless Car Washes**

- **EBITDA Margin**: 46%
  - Utility costs: 19%
  - Rental costs + tax: 16%
  - Service cost + chemicals + parts: 8%
  - Personnel and administrative costs: 7%
  - Other costs: 6%

**Features of the Business Model**

- Comprehensive expertise in management of own chain development in the Polish market.
- High level of services offered and transparent settlement of income.
- Execution of contracts allowing for continued dynamic development (PKN Orlen, Tesco).
- Implementation of the development concept in foreign markets through already executed contracts for new car washes.
- A highly profitable and proven business concept.
- Highly attractive locations for car washes.
- Cutting-edge washing devices and advanced technological solutions.
- A recognised brand.
- High standards of customer service.

**Profitability of Car Washes Results from Key Factors, Determining a Higher Rate of Profitability. These Include Mainly:**

- Keeping on gaining of experience in and beyond Central and Eastern Europe since 2010, particularly in terms of selection of the location and boosting of the operational efficiency.
- Choosing locations and planning the best locations for car washes near shopping malls (Tesco), at petrol stations (PKN Orlen) and other high-potential facilities.
- Low failure rate of the devices – our technology is highly durable, of a top quality with the use of the best components.
- Quality and performance of the programmes offered, based on cutting-edge technology, developed in compliance with the best standards of environment protection and energy-efficiency standards, and made by Hydropress.
- Optimisation of income with minimum amounts of fixed costs.
- Predictability and profitability.
APART FROM THE APPROPRIATE TECHNOLOGY, THE BASIS FOR RUNNING A SUCCESSFUL CAR WASH IS CHOOSING A SUITABLE LOCATION. Therefore, we offer a unique solution for our customers from the group of investors, in the form of a comprehensive package which constitutes a value added to their investment, saves time and lowers the initial costs of implementing company business plan.

WITHIN THE COMPREHENSIVE PACKAGE, WE PROVIDE OUR CUSTOMERS WITH A UNIQUE TOUCHLESS WASHING TECHNOLOGY and an indication of the optimal location for the car wash, moreover, our team takes care of administrative matters – the building permit and the permit for underground infrastructure.

BEFORE CHOOSING A SUITABLE LOCATION, HYDROPRESS CONDUCTS AUDIT OF PARTICULAR LOCATIONS and analyzes their commercial potential. We select only the places which guarantee future profit and quick return of the expenses incurred.

OFFER FOR INVESTORS WITHOUT A PLOT

WE OFFER ONLY THE PLACES NEAR BIG HOUSING ESTATES, WITHIN THE PREMISES OF SUPERMARKETS AND HYPERMARKETS, NEXT TO HIGH-TRAFFIC ROADS AND IN THE VICINITY OF GAS STATIONS OR SIMILAR ATTRACTION LOCATIONS.
OF THE INVESTMENT PROCESS

1. DECISION
This is where the whole process of investment planning starts. What do you need to do if you wish to invest in a car wash? Come and see our car washes, check out their performance and then make an appointment with our representative.

2. MEETING AND PRESENTATION OF OUR OFFER
Our representative will present all possible technological solutions of our car washes to the future investor. With our comprehensive support and experience, we will assist you in planning and performing the entire investment process, starting from analysis of the prospective location through all individual stages of its implementation to provision of products needed to operate the car wash.

3. ANALYSIS AND ACCEPTANCE OF A LOCATION
Choice of an appropriate location for such an investment is a decisive factor. When searching for a good location, we consider factors of key impact on its functioning and profitability at a later stage. Such factors definitely include:

- Population density (locations near shopping malls)
- Direct proximity of housing estates
- Infrastructure with a good communication

Most Hydropress car washes are located at major shopping malls. They can also represent an attractive addition to services of petrol stations, gas stations and diagnostic stations. With such a location, the car wash is clearly visible and easily accessible for drivers.

4. DETERMINING THE CAR WASH CONFIGURATION
After verifying the potential investment location, our representative will help to appropriately configure the car wash. The optimal choice of programs is one of the key elements which affect the attractiveness and functionality of the car wash. With Hydropress products, we have access to a series of professional washing technologies, such as:

- FOAMING – ACTIVE FOAM
- BRUSHING
- POWDER WASHING
- RINSING
- WAXING
- SHINING

Optional:
- RIM SPRAYING
- INSECT SPRAYING

What is also important to include in the list is the supplementary equipment (e.g. change machine or card payment panel) which will undoubtedly add extra professionalism to the customer service at your car wash. (The standard offer of Hydropress includes complete multi-station car wash projects: 2, 3, 4, 5, 6 and 8 stations).

Appropriate labelling and advertising will result in satisfactory income from the car wash for you. Find several possible locations and we will help you analyze their business potential.

DESCRIPTION
5. IMPLEMENTATION OF THE TECHNICAL DESIGN

Our offer includes ready-to-use car wash designs in any configuration. Our team will prepare a complete technical documentation for the given location in form of an architectural and construction design. The documentation will include complete and precise information about the underground and ground infrastructure of the development. As appendices, it will include designs for connections for the sewage, gas, water supply or energy systems, prepared by our designer and marked on a base map for design purposes.

For a building permit based on an appropriately prepared technical design, you should apply to the corresponding authority. The application has to be supported with the relevant opinions, permits, arrangements, to be prepared and supplier by the designer.

Hydropress will perform a part of the work for the investor in order to accelerate the implementation of the development. With our expertise, we will be able to prepare the complete documentation quickly and without any errors.

When the building permit is obtained, the implementation of the scope covering the underground infrastructure will start. The infrastructure includes: execution of the floor panel, installation of underfloor heating, water supply, sewage and electric installations as specified in the design.

Our construction team will take care of preparation and execution of the entire scope of the work.

5. IMPLEMENTATION OF THE TECHNICAL DESIGN

6. REALIZATION OF UNDERGROUND INFRASTRUCTURE

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7. INSTALLATION OF A NEW FACILITY WASHING TECHNOLOGY AND CONSTRUCTION

The technology and constructions will be installed upon completion of the ground work. A container or technical module, prepared in advance, and a metal umbrella roof construction (including also advertising elements in form of attic and banners) will be installed and prepared for technological commissioning.

The work will be performed in an efficient manner because the prepared construction is only assembled and attached to the ground.

8. LAUNCHING OF THE FACILITY TRAINING FOR TECHNICAL PERSONNEL

At the next stage, tasks are performed in order to have all the components of the car washing technology configured and calibrated, starting from the heating system, the chemical dispenser system, the water softening system and the reverse osmosis system to the Hydro Net automation control system or, previously, short-text message notifications. The car wash automation system is integrated with the “INTGEO” change machine or the payment terminal. For a full functionality of the systems, the car wash needs to be connected to the Internet.

The purpose of training of the technical personnel of the car wash is to help them learn how to operate the system in order to be able to manage it in a correct manner. Due to use of comprehensive diagnostic tools in the Hydropress car washes, information about faults can be quickly and precisely generated and delivered to the technical operators through a cutting-edge communication box, i.e., the short-text message notification system. The system will generate a short-text message password in order to indicate alerts requiring urgent attention. With the cutting-edge IT solutions, car wash operators can remotely control and configure the car wash devices, using computers or phones with Internet connection.

The car wash will be launched. When the formal requirements are met, the car wash will be handed over for use to the investor.

Following handover, the car wash facility will be accessible for customers in its full functional scope. Customers will have access to innovative technologies, such as washing programmes, change machine or card payment system.

We will provide the investor with substance-related support to the full extent of this form of business activity. We provide customers of car washes with mechanisms and know-how on appropriate use of the car wash programmes. We support the investor in various forms of advertising activity, the aim of which is to gain a maximum number of new, satisfied customers.

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EXAMPLE OF TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION OF HYDROPRESS CAR WASH WITH 4 STATIONS, CONTAINER VERSION

1. TOUCHLESS WASHING TECHNIQUE WITH HYDROPRESS

**CAT 350 high-pressure pump**
- 10–12 L/min capacity at 940 rpm,
- 95–105 bar pressure,
- water flow rate 660 l/h (for each station).

**Overflow valve – P&A 250 BAR**
- brass design,
- stainless spring,
- Viton sealing,
- working pressure up to 250 bar,
- continuous pressure adjustment.

**Siemens electric motor**
- output 2.2 kW,
- rotational speed 940 rpm.

**Antipulse accumulator – P&A 250 BAR**
- dampens pressure strokes, which is reflected in increasing the lifetime of high-pressure components.

**Pneumatic control valves – VIP**
- high chemical resistance and pneumatic control ensure high reliability and durability,
- complete tightness and no need for non-return valves.

**Metering pump – LANG 3 L/H pneumatic pump**
- pneumatic control, precise dosing,
- sealings and the membrane resistant to the impact of the wax and rinse-aid.
A.O. SMITH BOILER
• output 60 kW,
• efficiency up to 108% for gas boiler,
89% for oil boiler,
• hot water tank capacity – 368 liters,
• water temperature – 30-70ºC,
• stainless stack – up to the length of 3 linear meters.
• circulating pumps.

Powder feeder, conveyor – stainless design.

2. OSMOSIS AND WATER SOFTENING SYSTEM
• in case of a malfunction the system automatically switches to network water,
• constant water conductivity control,
• a system of pressure switches protecting the system against water supply disruptions,
• output 650 L/h (at the temperature of 10°C),
• 5 μm water filter at the osmosis inlet,
• interval membrane washing system,
• flow controlled via rotameters,
• osmosis tank capacity 300 liters,
• level control via 3 float valves.

3. AUTOMATION AND CONTROL SYSTEMS
Autonomous, modern PLC controller – fully automatic control over the process
• setpoints for the powder feeder, operating time etc. may be adjusted,
• income control.
Remote control over the Internet
• control center over all the washing station components (apart from the autonomous oven and water softening system).

4. CONTAINER, STRUCTURE, EQUIPMENT
Container - Hydropress
• sandwich panels,
• anti-burglary door.
Structure
• HEB sections, U-sections, pipes carbon steel – hot-dip galvanized,
• roof – galvanized and powder-coated box profile metal sheet,
• galvanized and painted steel gutters,
• flat roof.
Parapet wall
• backlit LED inscriptions,
• visualization in accordance with Hydropress brand.

Operator panels – Hydropress
• stainless design,
• anti-moisture protection of the coin detector, display and buttons (protection rating IP67),
• each cabinet is insulated and equipped with a 25 W heater, which protects against low temperatures and moisture condensation,
• emergency switch for the station,
• backlit washing program selection buttons: 1) touchless washing with powder (original Hydropress technology), high pressure, hot softened water,
2) brush washing with active foam,
3) rinsing with cold water from the water supply network,
4) maintenance using polymer and hot softened water,
5) shining using demineralized water with a shine and dryer.

Rotating arms
• stainless design – Hydropress,
• simple rotating and angle stainless joints – Mosmatic,
• length 1.75 m,
• angle of rotation – 360º.

Lance holders
• stainless design – Hydropress.

Brush containers
• stainless design – Hydropress,
• brushes VIKAN – 4 pieces.

Gun – Lance – P&J R130
• stainless insured length – 765 mm,
• ceramic nozzle 60P with higher durability,
• nozzle cover
• gun with an anti-freeze valve.

5. COIN SUCTION SYSTEM

6. SYSTEM FOR AUTOMATIC STATION SHUTDOWN IN WINTER

7. FLOOR MAT BEATER FOR STATIONS

UTILITIES DEMAND
1. Gas connection (propane-butane) – 1 1/2", fuel oil optional,
2. Water connection – 1 1/2", min. 3 bars at 80 L/min,
3. machine room waste water discharge – Phi 80 pipe in a sump,
4. Power supply – 3-phase 400V current – 32 kW.
EXAMPLES OF HYDROPRESS IMPLEMENTATIONS