



Manufacture of autochemistry and means for professional cleaning



## ABOUT COMPANY



Михаил Грачев,  
генеральный директор  
ООО «ТД Грасс»

« GRASS - Russia's leading Manufacturer of professional chemistry and car care products, detergents for the cleaning business and household chemicals. We are present in more than 20 countries and every region of Russia.

The main consumers of our products - car wash stations, transport companies and service stations, food and industrial production, cleaning companies, catering, hotels, and retail and Network shops. We produce unique products, control the quality and at the same time offer competitive prices and terms of cooperation. Constant contact with the customer and an individual approach to each client - our indisputable advantage.

GRASS products is manufactured in our own factory in Russia. Using high-quality raw materials, professional staff and experience enable us to produce products that meet the most stringent European standards for detergency and environmental friendliness. We are continually working to improve existing and develop new detergents.

Our task - to complete satisfaction of needs supply and demand in the market of car care and facilities. We are constantly developing and are confident that our cooperation will contribute to achieving better results in your business. For over 13 years we have been working on the "clean result"!





# GRASS RESEARCH CENTER



GRASS Research center

Our laboratory is equipped with facilities of the highest international quality. Highly qualified laboratory specialists are working on the creation of new products. At the moment in the laboratory, technology developers are working under the guidance of a research engineer.

GRASS Research Center is divided into three zones: an office training hall and a research laboratory. Our consultants are world producers of raw materials, such as BASF, CRODA, LG, CP Kelco, AkzoNobel, WACKER, Huntsman, Evonik, Bang & Bosomer, NORTEM, Caustic. Also as a part of corporate university, theoretical and practical chemistry classes for all employees of the company are conducted in the classroom.

Every year, GRASS technologists are being trained not only in Russia but also abroad, what allows the company to keep abreast of the world's leading developments in the field of detergents, ahead of competitors and create high-quality products.











# LABORATORY



## Quality control of raw materials and products

In the company's laboratory, quality control of all products is carried out in several stages.

Daily, besides development of new products, thorough work is carried out to control the quality of the products in GRASS laboratory. Each batch of incoming raw materials is checked for compliance with physical and chemical parameters.

When developing new products, laboratory makes different product tests, including quarantine and stress test. Only those products that have successfully passed all tests according to company's quality standards can be supplied for bottling. Samples of products from each batch are stored in a specially equipped «sample library» during the entire shelf life of products.

In this way, GRASS has a multilevel control system for products on all stages, which eliminates the delivery of defective products to the consumer.











# \*\*\*\*\* PRODUCTION



Production lines

Production shop creating goods for touchless car washing, car care products and detergents for professional use. The production capacity in 2016 was more than 60 000 tons.

The area of production is more than 3 000 m<sup>2</sup>. Each section is divided into two zones: the component loading area and the filling zone. Mixers located in the loading zone are filled with components according to a strictly defined program. Significant importance is attended to the quality of water that passes through several stages of purification: softening, deferrization, purification from organic impurities. All processes are performed by using a special high-end equipment, which allows to carry out with high precision dosing substances.

When the loading and mixing processes are over, created samples go to production laboratory where process engineer is checking them for compliance with the declared quality indicators.





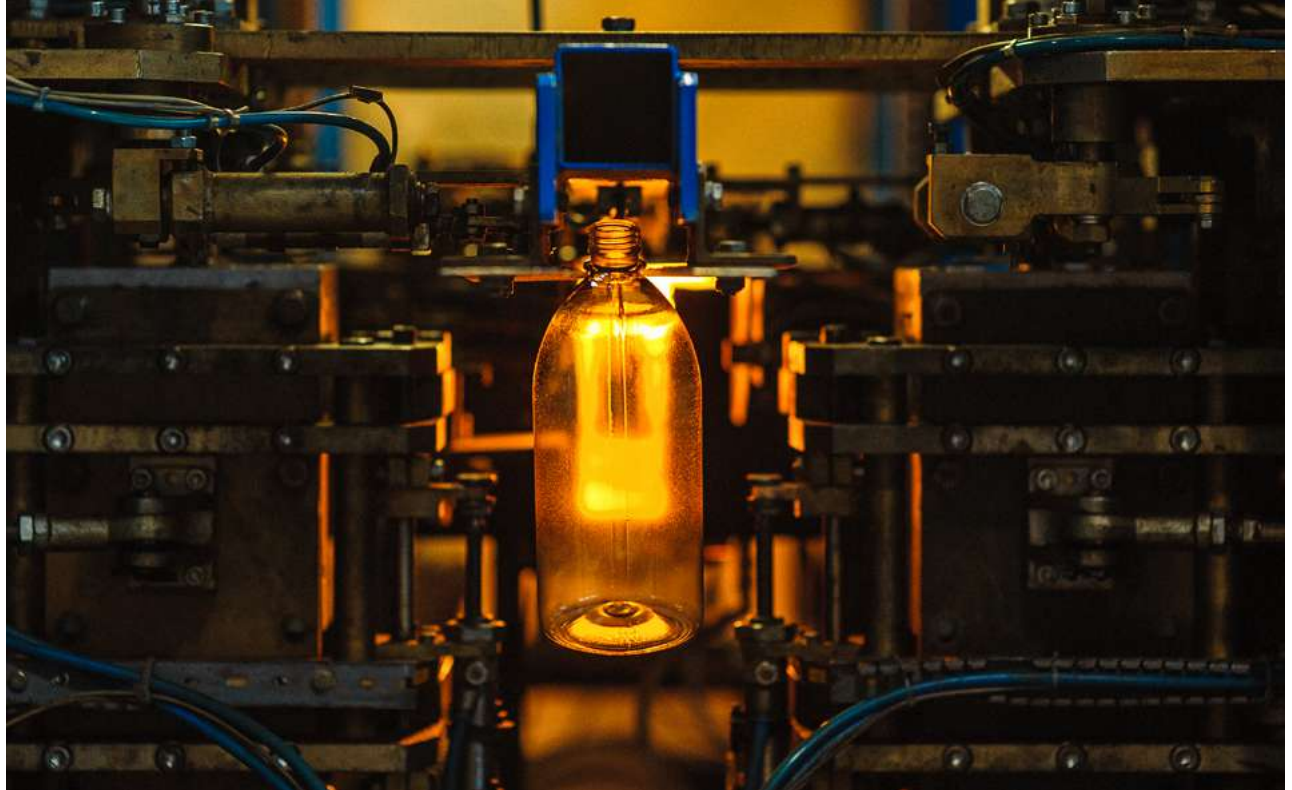
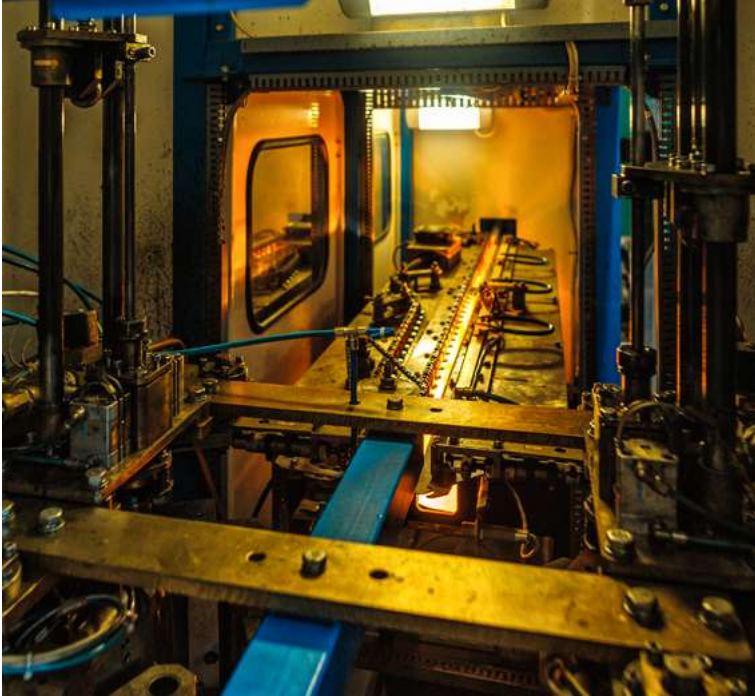


Only after complete and thorough check a product moves on to a certain filling lines depending on its purpose and features. Two of them are responsible for filling of cans up to 1 L volume and reach the capacity of 1.200 / h each. Whereas the filling line for the can volume 5-20 kg ensures the capacity of 10.000 L/h.

The special line of titan is designed for filling up to 2.000 cans with such active chemicals as acids or alcali per hour. Nearby there is a load panel for aggressive components based on solvents and abrasive substances. In 2016 GRASS was first to launch a production line for gel air freshener.







# \*\*\*\*\* PACKAGING PRODUCTION



Production of packaging for bottling of the products

Packaging production includes three directions: extrusion blowing PE (polyethylene), blowing of PET (polyethylene terephthalate), injection molding products from PP (polypropylene).

Products made of PE are produced on two extrusion-blowing machines of an automatic type. Also, new blowing plants are planned in the future. PE packaging is made by extrusion of granulated polyethylene into a homogeneous mass with the subsequent blowing the product into molds. This kind of bottles is used for bottling «aggressive products». PET-containers are blown on two automated blowing AB-2000 machines that have automatic preform loading, as well as a robotic control system for the entire production process (ready product are given out at the output).







Total productivity of these machines is about 60,000 products per day. Packaging of PET is used for bottling of neutral and alcohol-containing products. This type of production is based on method cast molten polypropylene in a mold under high pressure. This system is completely autonomous and has its own cooling system. Productivity is up to 10,000 products per day. Production area of cardboard flavors located in the packaging production department is divided into two zones: billet production and finished products packing. Billet production involves using equipment for silk-screen printing with special water-dispersed paints that are odorless and chemically safe for human. Air fresheners saturated with perfume during packing and are immediately sealed up in airtight pack. Thus, early evaporation of perfume is prevented.







# \*\*\*\*\* WAREHOUSE



Raw material and finished products storage

The plant benefits from spacious storages on-site

Convenient storage system includes the raw material stock 1359 m and modern finished products storage with 3.000 m<sup>2</sup>. The new building was launched in the beginning of 2017. 28 rows of 6-level storage racks ensure 4624 pallet storage positions. Depending on the weight the goods are allocated to the different storage areas. The right side of the hall is designed for logistics of small packaging units (10 L, 5L, 500 ml, 250 ml cans). Whereas the left side is dedicated to the heavy goods and equipment. All the pallets are easily accessible due to the special forklifts. At the rack end the packing equipment provides speedy foil wrapping to provide safe delivery to far destinations. Warehouse staff includes 4 logistics specialists, 2 storemen and 5 picker daily take care of continuous loading and unloading goods. The highlight of the new warehouse is the convenient logistics system WMS, which keeps record of storing, selection







and dispatching the goods via special terminals. Each entering unit is accounted and placed in the books automatically.

For better dispatching the warehouse is equipped with 7 docks, 5 for trucks and 2 for passenger cars. Therefore, the loading time has been significantly reduced. For instance, the loading of 32 pallets takes 30 minutes. As a result, GRASS has essentially raised the efficiency by launching the new warehouse.







## OFFICES



Company office interior

Any company success is based on its human capital. Team effectiveness is closely connected with the comfort of the working places. Therefore, GRASS creates the most ergonomic working and leisure conditions for its employees.

The new spacious three-storey office building of 3000 m<sup>2</sup> contains the following departments: human resources department, sales departments, marketing, kaizen, lawyers, supply and logistics department, accounting and the company management. Office space is divided by semi-transparent sections of an open-space style that create feeling of lightness, freedom and openness. At the same time, each employee has his own workplace, equipped with everything for successful work. The stylish design made in bright colors with small bright color spots emphasizes company aspiration for innovation, modern technologies and represents young daring spirit the GRASS team. Bright colors, geometric shapes and modern materials are the features of minimalism and modernity. At the same time, the variety of colors of the interior and cozy sofas with armchairs create the feeling of a comfort.

Posters with company motto and slogans located on the walls of the offices were designed not only by professional designers, but with help of all employees to motivate employees to achieve their goals or just cause smile. A lot of attention was paid to the staff training rooms that











are located on each floor of the building and equipped with everything necessary to watch educational films, presentations, performances. Large screens, stands with products, comfortable tables and chairs and stylish design make the educational process not only effective, but also enjoyable. Each new employee is being trained as an integral part of an extensive adaptation program designed to involve people in the work process quickly and successfully. The adaptation program involves tutorship for each newcomer to understand the job features, get familiar with a wide range of products, study the production process from creation in the laboratory to the shipment from the warehouse.







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# REST AREA



GRASS Territory of comfort

GRASS takes care not only of its employees' successful work, but also of their leisure time. A large rest area is located on the first floor of the office building.

Here you can play ping pong, table football, darts, read useful books from a special mini-library, or just chat. A spacious living room with a kitchen corner fireplace, a large table and a screen is located next to the game room. It is designed to celebrate important events, to organize meetings and discussions. Here, many serious questions are solved during a cup of coffee.







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# DINING ROOM



GRASS Dining areas

A well-equipped modern and comfortable dining room is always pleased to offer variety of tasty meals, aroma of fresh buns and rolls and friendly smiles of the personnel.

Here you can have a breakfast, lunch or a cup of natural coffee or tea. All meals, including bread and pizza, are prepared in front of the employees and considering their desires. All dishes of the dining room are always fresh, tasty and warm due to the special heating system that does not allow them to cool down. Cozy sofas and an abundance of greenery will make you enjoy your lunchtime.

























