

Impulse Quality made!



COMPANY



MISSION

**CREATING THE BEST ATTACHMENT PRODUCTS AND SERVICES,
EMPOWERING OUR CUSTOMERS' EQUIPMENT**

VALUES

PEOPLE



The company creates a favorable atmosphere for the disclosure of professional opportunities and growth of each employee. The company develops with the ideas and initiatives of the team.

SERVICE



Providing the highest standard of customer service on the market, including the most qualified and prompt technical service for any attachments and equipment.

PARTNERSHIP



Building long-term relationships with key suppliers that ensure maximum security for our customers' business.

REPUTATION



We strive to form in the eyes of our customers a reputation for the best product and customer service in the market of equipment, technology and services.

QUALITY



The quality of offered products and related services must fully meet the expectations of customers.

HISTORY



1995

Consolidation of leading developers of hydraulic breakers and attachments into the Impulse project. The company becomes the legal successor of the Soviet development school

Launched the production of replaceable working tools (chisels, etc.) for hydraulic breakers

1995

2007



Start of production of buckets, grab equipment, vibratory compactors 3
Launch of pilot production of new generation hydraulic breakers

2010

2011

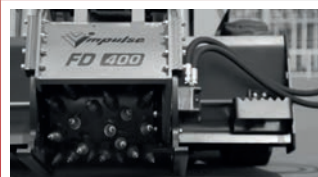


Partnership with a leading supplier of wear-resistant steels – SSAB (Sweden)
Launch of production of vibratory pile drivers and breaker boom systems
Start of equipment supplies under the OEM partnership program and export supplies



Serial production of the 5th generation of Impulse hydraulic breakers, launch of a line of municipal utility attachments
Construction of a new production complex

2018



Start of cold planers production
Shipments to Western Europe and the USA

2020





Project of digitalization of production in Technopark Impulse
Launch of a new series of Impulse Classic breakers

IMPULSE




IN NUMBERS

 **12 500** TONS
PROCESSING
OF METAL
PER YEAR

 **85** types
OF ATTACHMENTS

 **228**
MACHINES

 **17**
PATENTS
FOR INVENTIONS

 **27**
IMPULSE
PRODUCTS
WORK IN
COUNTRIES

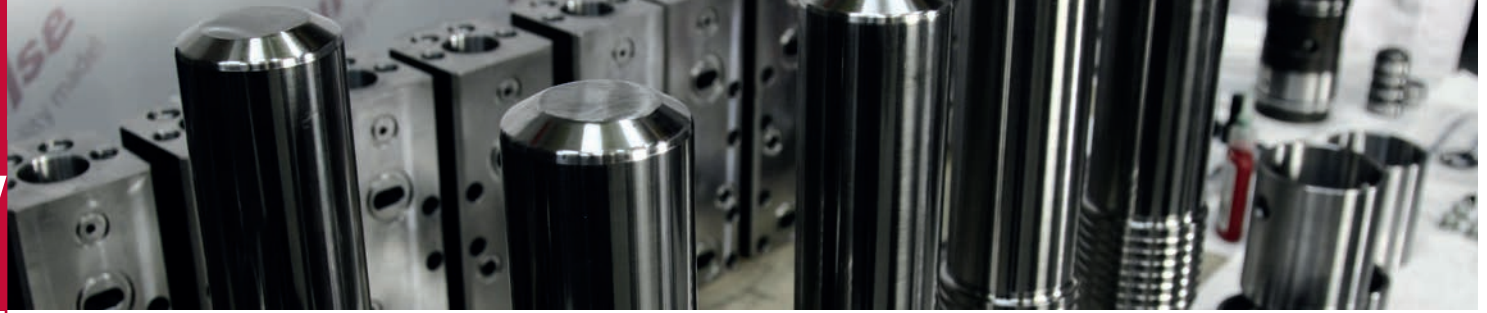
 **230**
EMPLOYEES

 **25 000** SQ.M
AREA
INCLUDING
THE NEW
WORKSHOP

 **6**
IMPULSE
120
WORKING
DAYS

FACTORY

PRODUCTS



HYDRAULIC BREAKERS

- Absence of tightening through-bolts
- The simplest service
- Warranty up to 36 months



HYDRAULIC VIBRATORY PILE DRIVERS

- High performance
- Wide range in stock
- Expert approach



HYDRAULIC DRILLING UNITS

- People's brand
- All models are in stock
- Best Price Guaranteed



EXCAVATOR BUCKETS

- Up to 2 years of warranty
- «Hardox in my body» certificate
- Produced since year 2007



FACTORY PRODUCTS



UTILITY ATTACHMENTS

- Widest range
- Shipment on the same day
- European components



QUICK COUPLERS

- For all types of special equipment
- Protection against arbitrary disconnection
- Quick equipment changes



MULCHERS

- Fixed and rotating hammers
- For all types of special equipment
- Expert selection, installation and training



COLD PLANERS

- Self-leveling in a standard supply
- Vibration-free operation
- Increased teeth lifetime

FACTORY PRODUCTS



PILE BREAKERS

- High safety margin
- Most powerful in its class
- Constant working speed



BREAKER BOOM SYSTEMS

- Large depth and the working area
- Simple controls
- High work safety



VIBRATORY COMPACTORS

- Leadership by real characteristics
- The best solution in its segment
- Expert selection



MEGA RIPPERS

- Alternative to a bulldozer
- Large loosening force
- Best solution for stripping works

FROM IDEA

TO PRODUCT

ALL KINDS OF PROCESSING!

All types of high-precision and modern metalworking are concentrated at the company's production facilities. The company has more than 50 renowned foreign partners for the supply of raw materials and components.

1 Analysis of trends and needs

First of all, experts analyze the needs of customers on the attachment market, who have been using equipment for years. Most often, these needs are associated with outdated production technology.

2 Generation of ideas

The plant's design engineers generate ideas and suggestions that meet the needs of our customers.

3 Computer modelling

Various methods of computer modeling, strength calculations, creation of mathematical models - this stage allows you to identify the weak points of any new design and eliminate them.

4 Selection of suppliers of raw materials and components

Together with research institutes, the plant's specialists are developing a formulation of rolled metal for the manufacture of equipment. Leading European and Japanese suppliers of raw materials are involved (hardware - Germany, polyurethane - France, seals - Japan).

5 Mechanical processing

The production process begins with the blank of the metal. Plasma or laser cutting of rolled products is performed depending on the thickness and complexity of the cut. Then comes the mechanical processing of metal: the plant carries out all types of turning, milling, boring operations on CNC machines with the ability to process parts weighing up to 3 tons.

WE ARE PROUD!

No matter how modern our machines and unique design developments are, the product is created by people. And it is the team of employees that is the highest achievement of Technopark Impulse. Continuous development and professional development of personnel is the main priority of the company.

6 Thermochemical treatment

The plant carries out not only heat treatment of parts, but also unique types of thermochemical treatment. In contrast to generally accepted standards, steel hardening is carried out in a complex polyurethane composite environment, which provides uniform hardenability, the required hardness and toughness of steel.



7 Welding of steel structures

Welding is carried out with ESAB semiautomatic devices using proprietary welding wire. Robotic welding systems are used in two most critical areas.



8 Double shot blasting

All body parts are shot blasted twice - for better preparation of the surface for painting and to relieve stress from the welds.



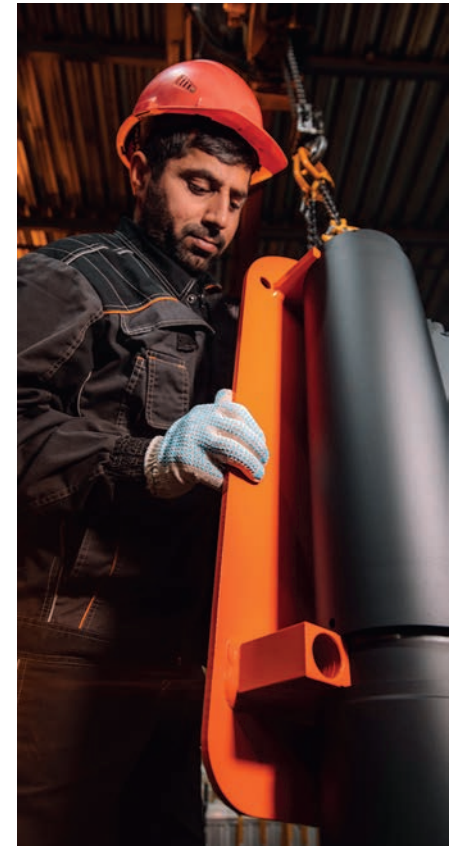
9 Painting

Painting takes place in two stages. The first layer is a protective two-pack epoxy primer for best adhesion. Second layer is applied with two-composite polyurethane enamel.



10 Final assembly

The assembly of products is carried out in a special area with all necessary conditions, including the cleanliness class and temperature conditions of the premises. This is the only way to guarantee the best possible build quality for precision parts.



TECHNOLOGIES



UNIQUE SURFACING TECHNOLOGY



Roxwell — unique surfacing welding technology, which is used to restore parts after wear or to give them increased operational properties. The lifetime of chisel for hydraulic breaker with surfacing is increasing by up to 8 times! Under the Roxwell brand, the plant offers working tools (chisels and moil points), augers, high-strength parts for hydraulic breakers. Specialists also adapt the technology to customers specific needs.



WEAR RESISTANT STEELS

Technopark Impulse is the only producer of hydraulic breakers in Russia with «Hardox in my Body» certificate. This means that, even with the most highly abrasive materials, the breaker has maximum protection and longest life. Today, the steel of the Swedish SSAB concern is the best steel for the production of buckets and working equipment for excavators.

BEST WELDING CONSUMABLES

ESAB — the world's leading manufacturer of welding machines and welding wires. Numerous in-house tests have shown the best weld quality when using ESAB welding consumables. All ESAB welding machines are programmable. This ensures a consistently high quality of the weld and the strength integrity of any metal structure.



DIAMOND SMOOTHING

Diamond burnishing technology is the most expensive, but at the same time the most accurate type of finishing of parts. Today only three manufacturers of hydraulic breakers in the world use this technology, one of them is Technopark Impulse. Unlike conventional grinding, diamond burnishing technology provides high precision finishing, and also provides surface compaction of the metal, which increases its hardness

ROBOTIC WELDING



Robotic welding at the hydraulic breaker section provides accurate positioning of parts and no leash, which guarantees 0% defect for 10 thousand units at the output.

WHY AFFORDABLE DOESN'T MEAN CHEAP

LET'S USE THE IMPULSE CLASSIC HYDRAULIC BREAKER AS AN EXAMPLE.

Everyone knows that classic Korean hydraulic breakers are made using technology developed in the 1960s in Germany.

The design of such a breaker consists of three main square-shaped parts, connected by tightening through-bolts. This

technology was developed for machines and materials that were available in the 60s of the last century.

Many manufacturers continue to manufacture hydraulic breakers using outdated technology, without investing money and resources in developing new projects.

Technopark Impulse took a different path.



What does it mean?



SAVING ON MATERIALS

In the production of a round profile, METAL WASTE IS REDUCED BY 56%

56%



SAVING TIME

By using a round profile, the machining time IS REDUCED BY 54%

54%



NOW YOU CAN IMAGINE THE DIFFERENCE IN THE COST OF THE FINISHED PRODUCT?

LEAN

PRODUCTION

The Technopark Impulse has a **Production System Development Department**. It's aimed at optimizing production processes at the enterprise within the lean production system.

Lean Production is a manufacturing enterprise management concept that is based on eliminating all types of losses (actions that do not bring value to the customer).

Value is the sum of all personal benefits that customer receives by purchasing our product or service. In other words, these are: availability, timing, quality, characteristics, usability, service.

The **main task** of Technopark Impulse is to offer the customer the most profitable solution, taking into account all the needs.

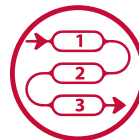
TOOLS HELPING US TO BECOME BETTER FOR YOU:



Working in development teams



A3 improvement projects and kaizen activities



Pulling process organization system



Organization of processes in the workplace



Production analysis

BY OPTIMIZING PRODUCTION PROCESSES, ELIMINATING WASTE, INCREASING THE VALUE OF PRODUCTS AND SERVICES, TECHNOPARK IMPULSE BECOMES BETTER FOR ITS CUSTOMERS.

OUR

SUPPLIERS

Any, even ingenious, idea remains so only on paper if it breaks down on the poor quality of the material. Therefore Technopark Impulse trusts only the best suppliers of raw materials on the market.



WEAR RESISTANT STEELS
(SWEDEN)



CUTTING TOOLS
(SWEDEN)



WELDING EQUIPMENT
(SWEDEN)



WELDING GAS MIXTURES
(FRANCE)



STRUCTURAL STEELS
(RUSSIA)



CUTTERS AND TEETH
(USA)



HYDRAULIC MOTORS
(GERMANY)



HYDRAULIC MOTORS
(GERMANY)

PRODUCTION



DEVELOPMENT DIRECTION

IN FUTURE CUSTOMERS OF TECHNOPARK IMPULSE WILL GET:



THE MOST AFFORDABLE EQUIPMENT

The plant will offer customers the most affordable hydraulic breakers in each class of equipment with a number of technical advantages that reduce the cost of ownership and the cost of processing 1 cubic meter / ton of material.



SERVICE ANYWHERE IN THE WORLD

The plant will ensure the availability of equipment, spare parts and service not only in the regions of Russia and the CIS, but also in other countries. To fully cover the growing demand, the company increases production capacity, acquires new machines and equipment, and improves processes.



EUROPEAN TECHNOLOGIES

The modern technologies in construction, dismantling and production will become more accessible due to their localization in Russia by Technopark Impulse.



EXTENDED WARRANTY

A warranty of up to 36 months without operating time limits will allow our customers to be always confident that purchased equipment will serve its purpose at any time, and not stand idle waiting for repairs and spare parts.

The most important direction in development of company is the creation of innovative products with new consumer properties, previously inaccessible. For example, the operation of a hydraulic breaker without time limits, the complete absence of piston corrosion, the ability to break out the rock with a chisel, replacement of chisel and bushing in the field, and much more.

Implementation of these solutions will give the best return on every cent invested in Impulse attachments. This will ensure, firstly, an increase in the profitability of our customer's business, and secondly, a greater contribution of construction companies to the development of the country through an increase in the efficiency of the construction of civil and industrial structures, the extraction of materials, cleaning of territories and road maintenance.