

2023

design
technical
documentation
production



**CNC MACHINE
PROCESSING**
MANUFACTURE OF
PRECISION MACHINE PARTS
GEARED PARTS
GEARS



**CNC CUTTING
LASER
WATER JET**
PLASMA AND GAS
CNC CUTTING



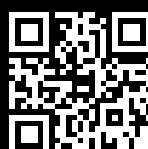
**PRODUCTION
THE MACHINE**
DPF / FAP FILTER
AND SCR CATALYST



SINCE 1989
NS-STEEL
mašinska CNC obrada - proizvodnja mašina



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C A L L U S !
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OBROVACKA 7, VETERNIK
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Machine center **NS-STEEL 1989** with decades of experience and tradition is engaged in providing services of CNC machining, production of gears - gears, CNC cutting of plate materials, production and service of machines.

The parts we produce are widely used in industrial plants and various production and service machines.

We offer our associates design service, preparation of technical documentation and production of necessary parts.

Services we offer in our machine center:

Work unit CNC machining and production

- CNC machining, production of precise machine parts
- Overhaul of motor-reducer
- Machine repair
- Design and reconstruction of industrial machines

Working unit for cutting plate materials

- Water jet CNC – water cutting
- CNC plasma and gas cutting
- Laser CNC cutting of plate materials and pipes

Working unit of machine production – special welding – locksmith works

- Machines for cleaning DPF / FAP filters and SCR catalysts
- Design – construction
- Welding services by various processes

Working unit mechanical filter cleaning

- Machine cleaning / washing of DPF filters and catalysts for passenger, cargo program and working machines.

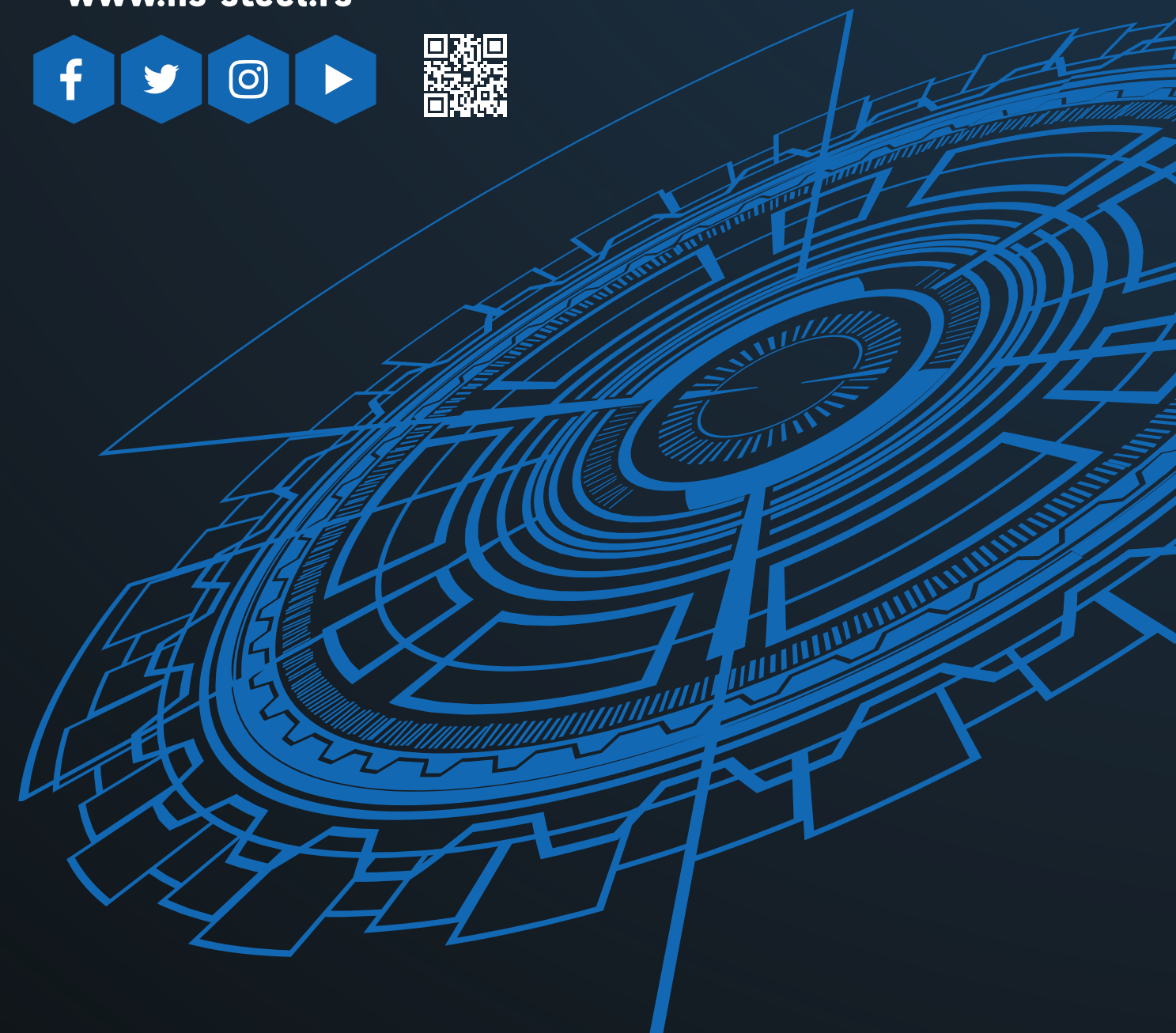
SINCE 1989



TRADITIONALLY GOOD QUALITY

YEARS OF EXPERIENCE – QUALITY GUARANTEED

www.ns-steel.rs



MACHINING – PART PRODUCTION

MACHINE AND GEARBOX OVERHAUL

With decades of experience and tradition, we provide machining services, produce machine parts according to sketch, technical documentation or sample.

- ⚙ We provide design and technical documentation services.
- ⚙ We repair machines and gear-motors as well as produce their spare parts.



SERRATED PARTS

GEARS

Besides classic machining, we also produce the following serrated parts:

- ⚙ Gears, sprockets, parts with internal gearing, snails and snail carts, geared shafts, gear couplings and laths.



MACHINING SERVICES:

- ⚙ Scraping
- ⚙ Milling
- ⚙ Grinding
- ⚙ Drilling
- ⚙ Internal gearing
- ⚙ Outer gearing

GEARS

IN PRODUCTION PROGRAM

- ⚙ Cylindrical gear with straight and bevel teeth
- ⚙ Bevel gear with straight teeth
- ⚙ Gear with helical teeth
- ⚙ Worm transmission - worm and worm wheel
- ⚙ Two-stage gear
- ⚙ Ring with internal teeth

CNC MACHINING – PRODUCTION OF PARTS

The wide range of machine parts that we produce are made on the following machines:

- **CNC LATHES** WITH DRIVEN TOOLS AND C - AXIS
- ON VERTICAL **MACHINING CENTERS – MILLING MACHINES** WITH 4TH AXIS



CNC processing machines provide fast and **highly accurate** production of parts from different types of materials.
The geometry and design of the manufactured products can be modeled and manufactured according to the customer's wishes.
Every part that comes out of our production is previously examined and tested, in several stages, with special measuring instruments.



Chain Wheel Balancing flange adapter V-Pulley Chuck adapter Nozzle Connector



Scroll Pump Body Pump Body Coupling Plate Adapter Plate



WELDING MANUFACTURE OF ASSEMBLIES AND DIFFERENT TYPES OF METAL STRUCTURES

We provide the following services to our customers:

- Design and construction – preparation of documentation
- Production of assemblies and structures based on a sample or documentation
- CNC cutting of plate materials
- Welding services - locksmith works

We perform special welding services with the following procedures for different types of materials:

Material	Thickness (mm)	Welding technique
Stainless steel	0.5 - 50	TIG
Steel	1 - 100	MIG/MAG, electric arc (SMAW)
Cast iron	1 - 20	electric arc (SMAW)
Aluminum	1 - 12	TIG
Steel	1 - 100	MIG/MAG, electric arc (SMAW)
Aluminum	1 - 50	MIG
Copper	1 - 15	TIG, oxy acetylene
Brass	1 - 15	TIG, oxy acetylene
Bronze	1 - 15	TIG, oxy acetylene



WATER JET CUTTING

WATER JET CUTTING SERVICE

To our customers we offer water jet cutting of different materials with **WATER JET TECHNOLOGY**.

We base our offers on technical documentation, technical drawing, projects in dxf or dwg formats, as well as on the sample you bring to us (in that case we prepare technical documentation).

Depending on our customer's needs, we can offer our materials with competitive pricing policy.

We offer you cutting in five different levels of final processing quality. We meet the diverse needs of our clients, from the production of individual parts, prototypes, to the serial production of the necessary elements. Engineers are at your service for finding a solution to every problem, providing you with instructions and giving you advice to help you find the best possible solution. We also offer complete project documentation, which, in addition to cutting, includes all other necessary works.



CNC CUTTING

PLASMA & GAS CUTTING SERVICE

We offer plasma and gas cutting services to our customers. Using CNC machines technologically creates the most economical process of cutting metals, flat materials and tin sheets. With this technology, we get high-performance and high-quality cutting. The cutting process is completely automatically managed by the management software.

PLASMA CUTTING is a process used to cut steel and other metals using a plasma cutting blowpipe. Inert gas (sometimes compressed air) is thrust at high speed through a nozzle, while at the same time the electric arc is established through the gas to the metal piece, thus turning one part of the gas into plasma. Plasma temperature is high enough to cut the metal.

GAS CUTTING is the process of separating metals by combustion in an oxygen stream, while simultaneously blowing off the products of combustion.

Gas cutting is a thermal process in which the operating temperature is achieved by combustion of acetylene gas. Combustion of this gas produces a fraction of the heat that maintains the operating temperature, and a significant portion of the heat is obtained by combustion of the metal which is being cut, making this an important advantage of this process.

CNC PLASMA CUTTING is one of the most commonly applied cutting techniques because of its effectiveness and simplicity, always resulting in high quality cut.

FIBER CNC LASER

FOR PLATE CUTTING MATERIALS AND PIPES

We offer a laser cutting service with high speed and high precision.

Dimensions of the work table 3000 x 1500 mm.

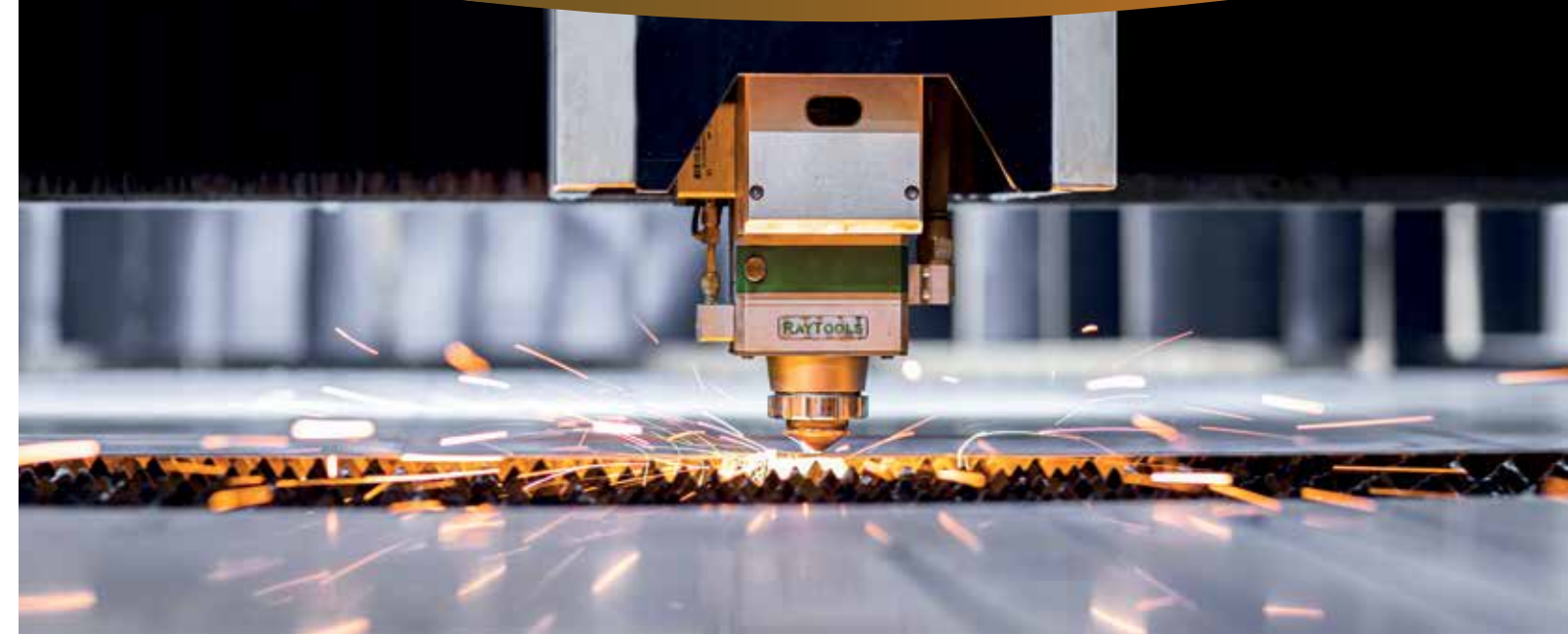
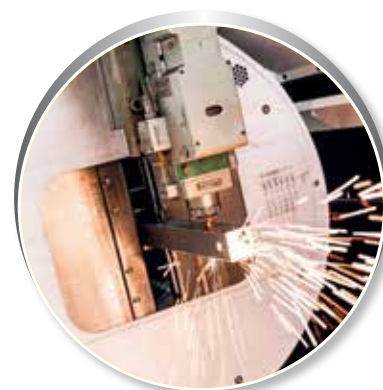
Advantages of CNC laser cutting:

- high quality
- high precision
- flexibility,
- economy,
- cutting speed and minimal material deformation.

CNC APKANT

Press 180t

Precise cnc bending of sheets - L= 3020 mm.



PROFESSIONAL MACHINE CLEANING
OF DPF/FAP/FILTERS AND SCR CATALYSTS



OUR MACHINES HAVE THE FOLLOWING QUALITIES:

The machines are completely made of stainless steel, the filter is permanent, automatic water level regulation, electricity consumption indicator by phases, economical electricity consumption, frequency regulator - for safe washing of DPF and catalyst, control unit with automatic and manual control, touch screen, memory of up to 5 filters for faster and easier work on the machine, pre-drying and dual drying of filters, productivity of up to 10 filters in 8 hours, database - up to 100,000 users, printing results before and after washing, daily, weekly, monthly reports of the number of washed filters, record of how many hours the main pump worked, record of how many hours the machine worked, control of the number of washed filters, instructions for working on machines, technical support 24/7, warranty up to 2 years.



NS DPF LINE L - 023

NS DPF LINE L - 023 / TECHNICAL DATA	
External dimensions (length x width x height)	2220 x 1050 x 2520 mm
Internal dimensions (length x width x height)	1895 x 910 x 1075 mm
Machine weight	850 kg
Material	Inox - Stainless Steel
Tank volume	230 l
Operating water purifier volume	35 l
Total volume	265 l
Power supply	380 V 3 phases
Air network connection	8 bar
Aspiration	330 m³
Total consumption / labor consumption	17,3 kWh / 14 kWh
Equipment	Aspirator, water filtration system, filter pressure gauge, water heaters, air heaters, Lowara Italian stainless steel pumps, printer, filter connectors.

NS DPF LINE M - 023 / TECHNICAL DATA	
External dimensions (length x width x height)	1710 x 1100 x 2235 mm
Internal dimensions (length x width x height)	1095 x 910 x 1180 mm
Machine weight	450 kg
Material	Inox - Stainless Steel
Tank volume	130 l
Operating water purifier volume	35 l
Total volume	165 l
Power supply	380 V 3 phases
Air network connection	8 bar
Aspiration	330 m³
Total consumption / labor consumption	16 kWh / 13 kWh
Equipment	Aspirator, water filtration system, filter pressure gauge, water heaters, air heaters, Lowara Italian stainless steel pumps, printer, filter connectors.



NS DPF LINE M - 023

MACHINE FOR CLEANING DPF/FAP FILTERS AND SCR CATALYSTS

An expert team of engineers participated in the project of making the machine.

Proven components, the highest quality materials were used, the software was made according to our request and the practical experience we have in the field of cleaning filters and catalysts.

The main goal was to produce a machine that can be successfully presented on the world market with its performance, simplicity and proven method.

This method provides effective cleaning, restores the function of the DPF filter and catalyst to factory values.

What is very important is not to damage the filter.

NS DPF LINE 007 - 023 / TECHNICAL DATA	
External dimensions (length x width x height)	1300 x 950 x 2250 mm
Internal dimensions (length x width x height)	980 x 730 x 1300 mm
Machine weight	350 kg
Material	Inox - Stainless Steel
Tank volume	80 l
Power supply	380 V 3 phases
Air network connection	6 bar
Aspiration	330 m³ / h
Total consumption / labor consumption	14,5 kWh / 7,5 kWh
Equipment	Aspirator, water filtration system, water heaters, air heaters, Lowara Italian stainless steel pump, printer.



NS DPF LINE 007 - 023



NEW IMPROVED FORMULA!

MACHINE CLEANER FOR DPF AND CATALYST

Tested on over 2000 washed filters of different dirt content, from passenger to cargo programs, from diesel to gasoline engines.

The improved agent has better soot dissolution and degreasing. The most important thing, in addition to the EFFICIENCY of cleaning, the agent **DOES NOT DAMAGE** the inside of the filter, ceramics and precious metals.

TRY IT AND SEE FOR YOURSELF!



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