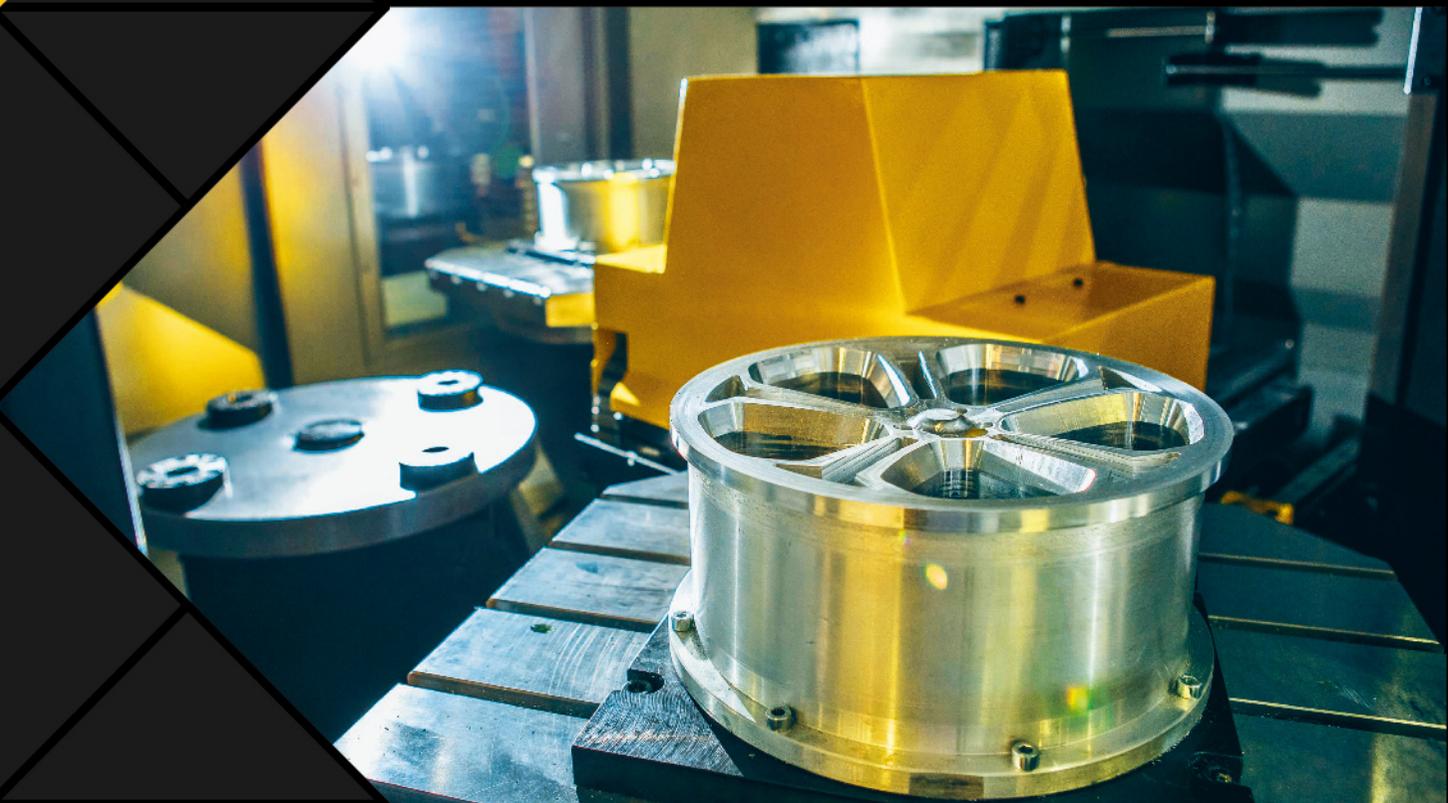




Sterlitamak | Kolomna | Moscow | Ryazan | Ivanovo | Kimry | Azov



[stan-company.ru](http://stan-company.ru)

**RUSSIAN  
MACHINE TOOLS**

### **Being Russia's largest machine-tool building company and competing with leading international manufacturers of metal-working and special equipment, we:**

---

Offer our clients innovative, precise and reliable machine-tools to overcome their expectations and provide them competitive strengths at their markets;

Increase our clients' productivity and efficiency, employing the latest technologies, developments and achievements in accuracy and capabilities of our products;

Support our customers' businesses with competent and responsible sales, services and projects implementation.

### **In compliance with global standards we:**

---

Reward fair and open corporate culture utilizing all necessary management tools;

Value the importance of team-oriented approach in corporate-wide communications;

Respect each other's opinions, value our differences and continue our self-growth.

### **In compliance with strategic goals of machine-building industry we:**

---

Invest knowledge and experience in further development of Russian machine-tool building industry for our capitalization growth and success of our customers;

Remember that the price for our products and services is the key to success and stability;

Make necessary profit for maintaining cash flows, R&D, high-quality client services, continuous talent management, high sales and high quality of production infrastructure.

### **As an industry leader and sustainable company we:**

---

Preserve natural resources and environment;

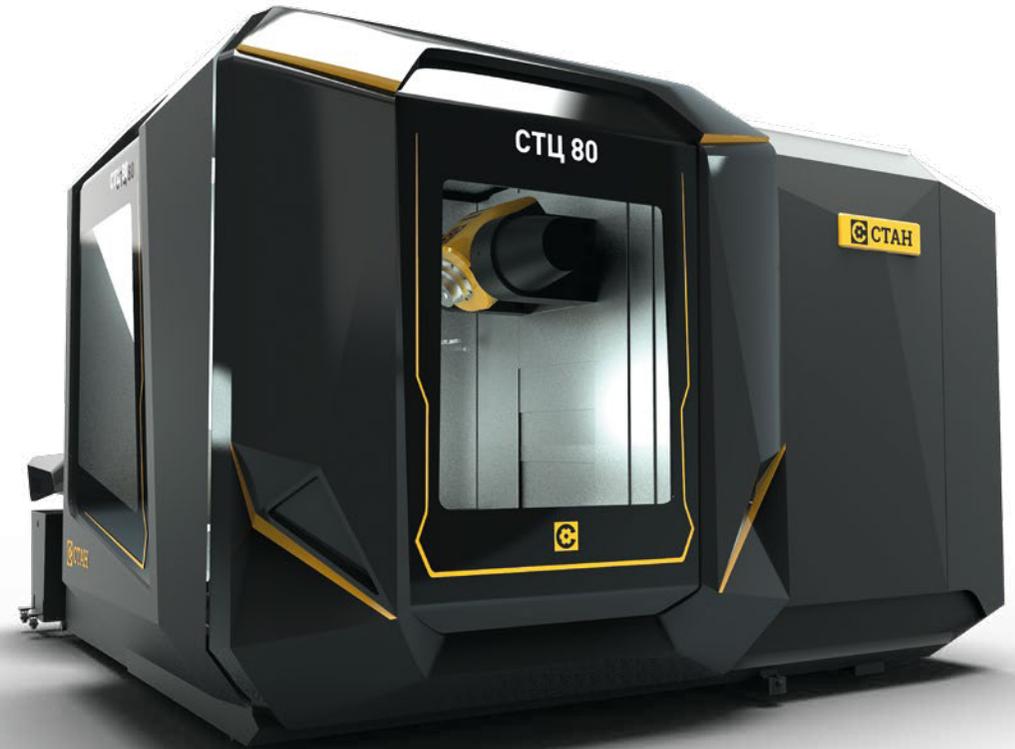
Follow high ethical business practices.



**STAN**  
STERLITAMAK

150 year of production history.

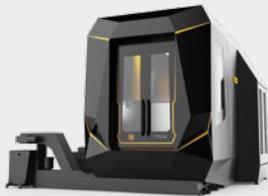
Product line basement is a high-accuracy many functional 3-axis and 5-axis CNC processing centers.



## Processing centers



STC 25 (S250)



STC 50 (S500)



STC 50+ (S500U)



STC 50-55 (500VS)



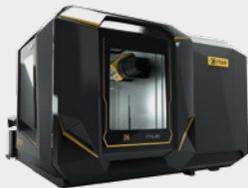
STC 50-70H (650H)  
STC 63-90A (650H5)



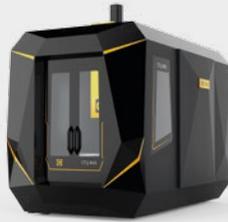
STC P63/80/125



STC 40B (1000VBF)



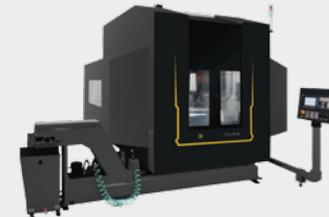
STC 80 AT (800VHT)  
STC 160 AT (2000VHT)



STC F45 (S450)



STC F55 (500V)



STC F60/70/80  
(600/700/800V)



STC F55 L (500V/2)  
STC F55 XL (500V-5000)

## Turning machining centers



STT 32 (160HT)



STT 50-60 (200HT)

## Special-purpose machines



CC740

## Latest innovation — CNC gantry-type machining center STC-P80

- No any analogues in Russia;
- Only 3–4 other manufactories in the world;
- High demand from military sector of industry;
- Only 10 month of prototyping





772 employees



56 designers,  
48 technological  
engineers



The enterprise  
owns a full range  
of the modern  
processing  
equipment

### **Following machines were designed since 2012:**

- Vertical machining centers — STC F45, STC F55, STC F70 and its modifications.
- Five-axis machining centers — STC F25.
- New projects of horizontal machining centers STC F100 and STC F90 (STC F90N, STC F90 NRC, STC F90A, STC F90 AT and modifications).
- New gantry type five-axis machining centers - STC P80, STC P63, STC P125 and modifications.
- Deep modernization of five-axis special machining center of STC 100V.
- 2 new base models of vertical honing machines were designed.
- New models of CNC lathes STT 30, STC TY and STC T50 V and modifications were designed.





There are own model shop, full cycle casting production, thermal shop and galvanic line at the plant

The enterprise has full specter of modern technological equipment. Technological park contains metal processing equipment produced by main international producers.



The company has a modern quality Department, which consists of 4 groups: quality control group, main metrological group (geometrical, electrical and heat engineering measuring instruments), chemical laboratory and certification group.

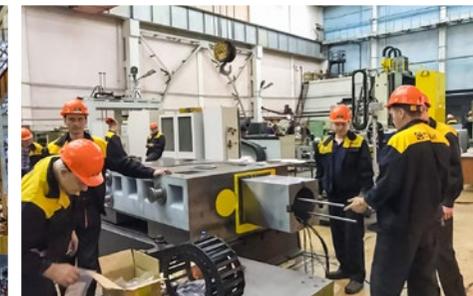


Quality management system for compliance with GOST ISO 9001-2011 was Implemented and certified





Manufacturer of extra-heavy and special-purpose machines, e.g. turning-and-boring machines, rigid-bed milling centres and special-purpose machines, e.g. for metal spinning, 'wafer' background processing, body welding, hydraulic forging etc.



## Product range



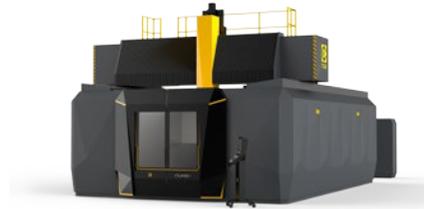
Single-column vertical turning and boring lathe



Double-column vertical turning and boring lathe



VBL series turning-and-boring machine



Rigid-bed milling machine



Gear milling vertical-type machine



Gear milling horizontal-type machine



Centre less turning machine



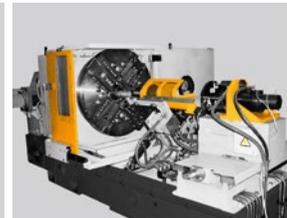
Quenching machine



Winding machine



End chamfering machine



Pipe-cutting machine



Extruders



Isostatical moulding machine



Hydraulic bed-type sheet-stamping press



Crimp press



Hydraulic pipes-calibration press



Hydraulic pipes calibration and testing press



Press for hydraulic testing of pipes



Forming and straightening press





418 employees



37 designers,  
29 technological  
engineers

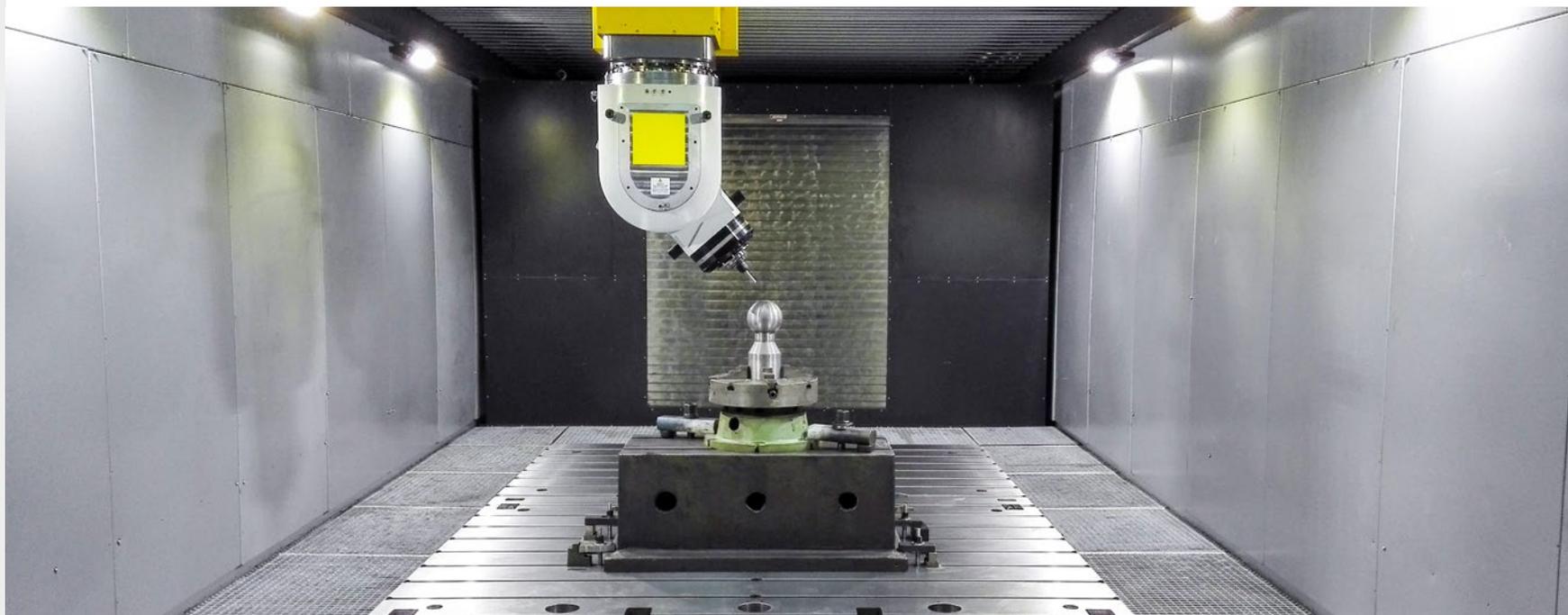


The enterprise  
owns a full range  
of the modern  
processing  
equipment

**Machines:** 5axis portal milling centers SK-6P series, pipe bending SGIN-120 machine, horizontal boring 2G660DF4 machine, waffle background processing machine, carousel lathes KU series and others

**Presses:** special press SPP-250, Press for sintering of metal ceramics D1143K, pipe testing press KP691 and others

**Modernized machines:** special copy-milling machine KU191, horizontal boring machine 2N636GF1, hydraulic press HVO-2-400, carousel lathes 1516, 1550, 1B502, 80DV CHEES and others.



The logo for STAN IVANOVO, featuring a stylized gear icon inside a square, followed by the text "STAN" in a large, bold, sans-serif font, and "IVANOVO" in a smaller font below it.

# STAN

IVANOVO

The first plant to master the production of domestic CNC systems.

The focus is on horizontal boring-and-turning mills and machining centres in a variety of dimensions and weight of the work pieces to be processed



## Horizontal machining centres



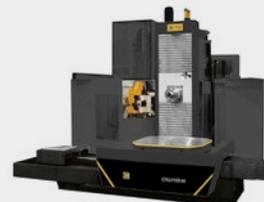
STC F63x2 NR/F80x2 NR  
(Super Center IS630/  
IS800)



STC Globe  
(SC IS800-Globe)



STC F50x2 HKP/Fx80x2  
NKR (ISB500PMF4/  
ISB800PMF4)



STC P125 M  
(IS1250PMF4)



STC R120R  
(ISB1200-2)



STC P637 TS  
(ISH2A637PMF4)



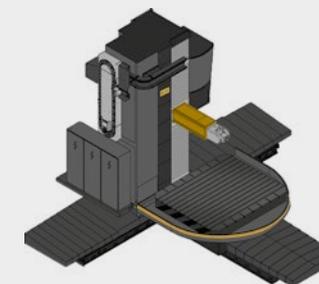
STC P160 M  
(IS1400PMF4)



STC P160  
(IR1400PMF4)



STC P160 +  
(IRP1600PMF4)



STC FP500  
(ISK5000)

## Horizontal machining centres



STR 125  
(IP1250)



STR 636  
(IS2A636)



STR 637  
(IS2A637)



STR 60  
(IR600)

## Equipment supplies



Tool- and spindle-making facilities

## Setup of modern spindle devices and motor spindles for CNC machines manufacturing

- Setup of manufacturing import-substituting high-tech products with high added value and scientific and technological potential;
- Setup of domestic tools' manufacturing as part of industry development;
- Lathe spindles with rotation speed up to 5 000 rpm, power up to 40 kW and torque rating up to 400 Nm;
- Boring spindles with rotation speed up to 24 000 rpm, power up to 70 kW and torque rating up to 1 000 Nm;
- Special grinding spindles with rotation speed up to 80 000 rpm;





259 employees



20 designers,  
13 technological  
engineers



The enterprise  
owns a full range  
of the modern  
processing  
equipment

## Following projects were realized:

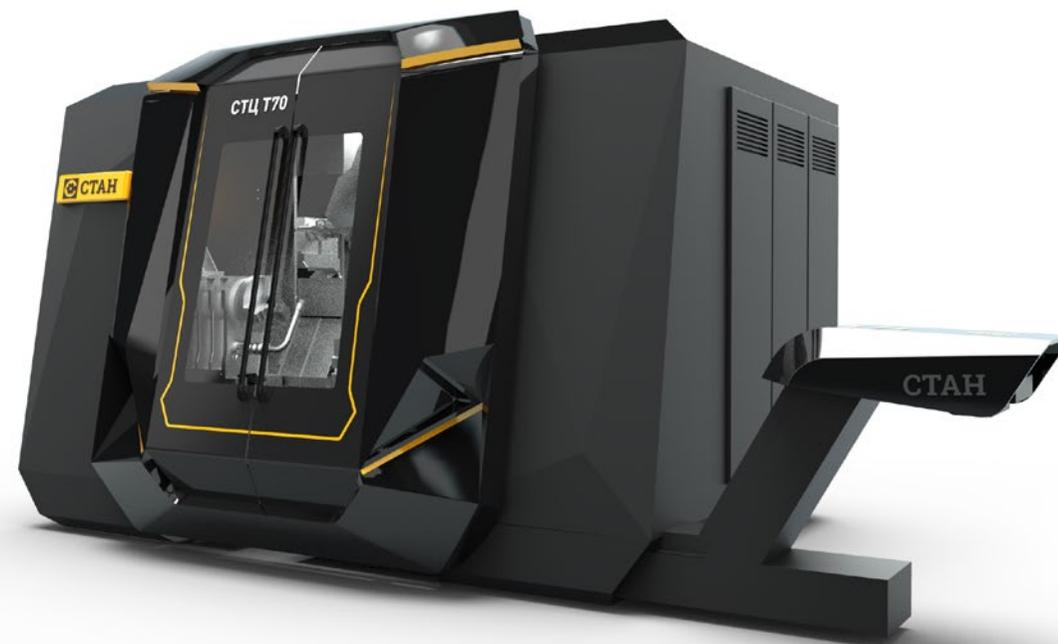
- 2014 — 8 projects (horizontal machining center IR500PMF4, horizontal machining center ISB800PMF4, Milling machining center IS1250PMF4, Horizontal boring machines IR1250F1, 2637F1, 2637GF2, 2637G, Heavy-duty horizontal machining center IR1400212.002).
- 2015 — 5 projects (Milling machining center IS1250PMF4, Horizontal boring machines 2622F1, IS26636F1, universal boring machine IR600-80, horizontal machining center ISB500PMF4).
- 2016–2017 — 10 projects (scientific research “SLIDER BAR”, Milling machining centers IS1250PMF4, IS1250F1, IS800-Super Center, STC N 125, horizontal machining center ISB800PMF4, High speed give-axis horizontal machining center SC IS800 “Globus”, Horizontal boring machine IR1250 and its modifications).





A company with 70 years of competence to manufacture the widest range of lathes, from multi-purpose ones to CNC lathes and multi-functional machining centres.

The plant is one of three companies in the world producing deep hole drilling machines.



## Multi-proposal turning lathes



STT U50 (16P25P)



STT U70 (1M63)



STT U84 (16K40)



STT U100 (1H65)



STT 120 (PT117)



STT 137 (PT817)



STT 170 (PT317)

## Horizontal CNC lathes



STT 50/100  
(16P25F3)



STT 67  
(16P30F3)



STT 80  
(16P40F3)



STT 100/290+ (16P50F3)/  
STT 100/300+ (1H65F3)



STT 120/100+  
(PT117F3)



STT 137/100+  
(PT817F3)



STT 150  
(PT317F3)

## Turning machining centers



STT 30 (1715)



STT 55 (1728)



STT 70 (1740)

## Railway-related machines



STT D107 (PT905F3)/  
STT D125 (PT910F3)



STT D95+ (PT908)

## Thread-rolling machines



STN18 (PP18)

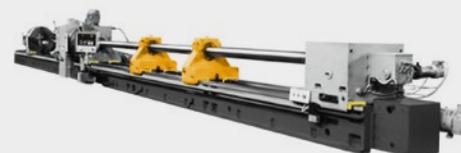


STN30 (PP30)



STN50 (PP50)

## Deep hole drilling and boring machines





134 employees



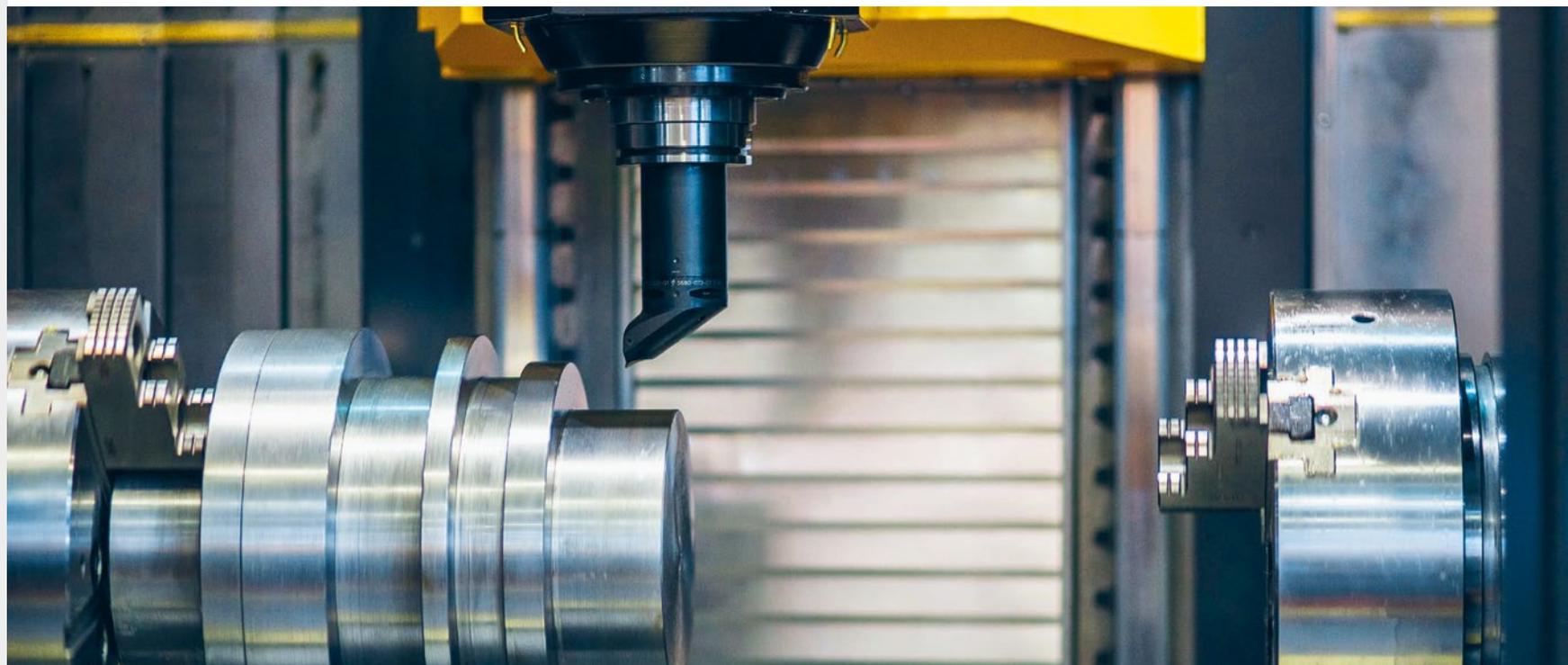
18 designers,  
16 technological  
engineers



The enterprise  
owns a full range  
of the modern  
processing  
equipment

### In the period of 2016-2018 following new machines were designed:

- 13 modifications of turning machining center 1715
- 3 modifications of turning machining center 1728
- 6 modifications of turning machining center 1740
- Universal lathes 16R25P-1, 16R25P-1,5, 16R25P-1, 16K40F1-10, RT317-6
- 4 modifications of CNC lathe RT950F3,
- CNC lathe 16R25F3,
- CNC lathe 16R40F3-3
- Hydraulic thread-rolling machine RP30

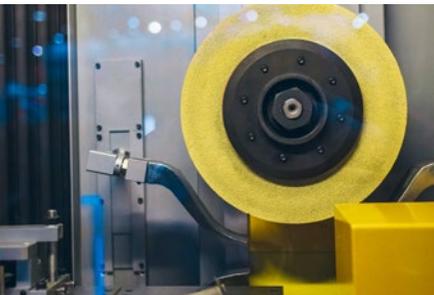




Russia's only producer of up-to-date machines for creep feed grinding.

Focus on:

- carbide processing
- profile creep feed grinding
- milling and grinding with durable wheels



### Machines for creep feed grinding



STSH 512/13, 610/11  
(SXS 512/13, 610/11)



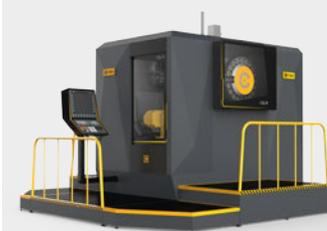
STC 51 2TS (SXS 512-TC)

### Profile grinding machines



STSH 31 (SXS 310 CNC)

### Machines for creep feed grinding with durable wheels



STC 73 5TS2  
(SXS 735-TC2)



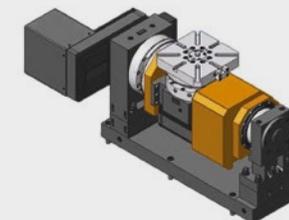
STSH 32  
(SXS 320 CNC)

### Machine tools for carbide grinding



STSH eco/eco R  
(WAMeco/WAMeco-Rotodress)

### Special equipment and tooling for grinding machines





34 employees



7 designers



Company has a metrological specialist with a set of universal measuring instruments (plugs, staples, tiles, micrometer, indicator, etc.)



The enterprise owns a full range of the modern processing equipment

## In the period of 2015-2018 following new machines were designed:

- Profile grinding machines SXS 310 CNC, two SXS 512 CNC, SXS 610 CNC
- Machine for carbide grinding WAMeco
- 5 machines for creep feed grinding with durable wheels SXS 735-TC2-CNC



## MACHINE CONSTRUCTION FEATURES STSH 31 (SXS 310 CNC)

### WORK TABLE

Correction device placed at the top table surface (right side) Working pallets device is at the right side. Working table is equipped with hydraulic and has two positions – one for detail grinding, second for roll access.

### CLEANING DEVICE

If you enter a circle value into the control system, the drive of the cleaning device automatically moves the cleaning nozzle to a distance that allows you to set a circle with a given diameter, given the small gap.

### WORKING PALLETS

There are two working pallets installed on the machine. Each pallet could be used for two workpieces. Pallets are fixed with hydraulic system during workpiece machining. Pallets has two positions — one is closer to the operator to workpiece fixing/unfixing and far from the operator for grinding process.

### CORRECTION DEVICE

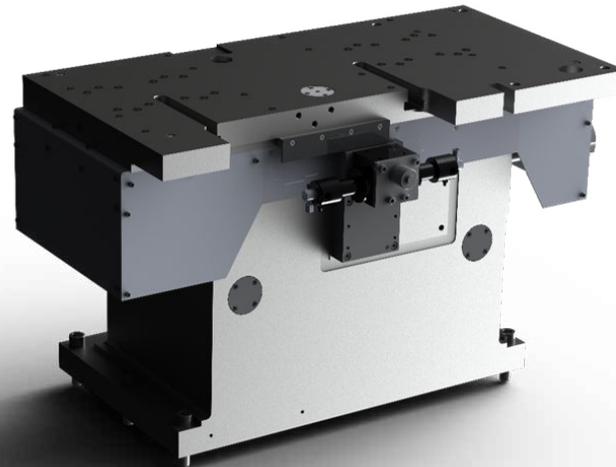
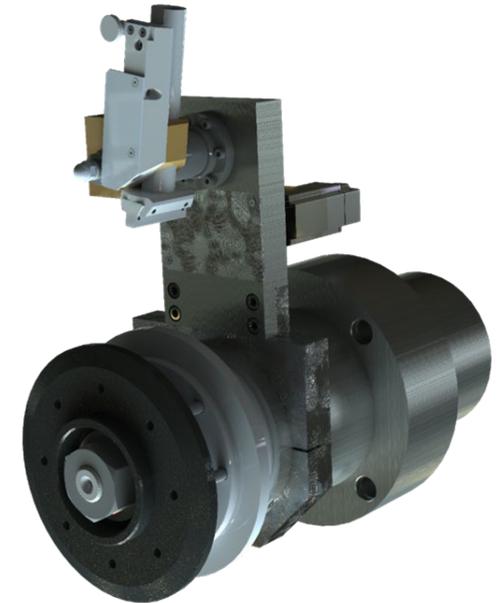
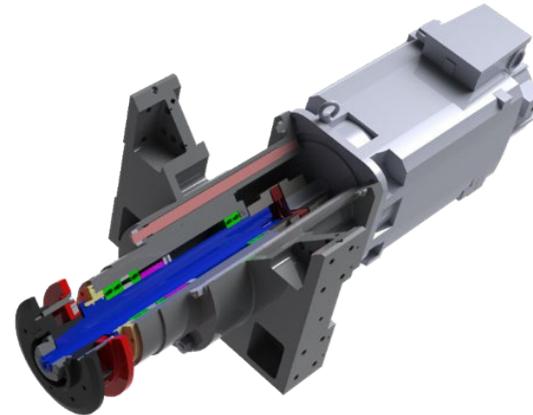
The axis of the correction spindle edits oppositely to the spindle circles. The second position of the correction spindle is provided by turning for 90 degrees

### BLOCK-SPINDLE

To achieve optimal rigidity during grinding, the spindle is designed using a special mounting method in the grinding carriage

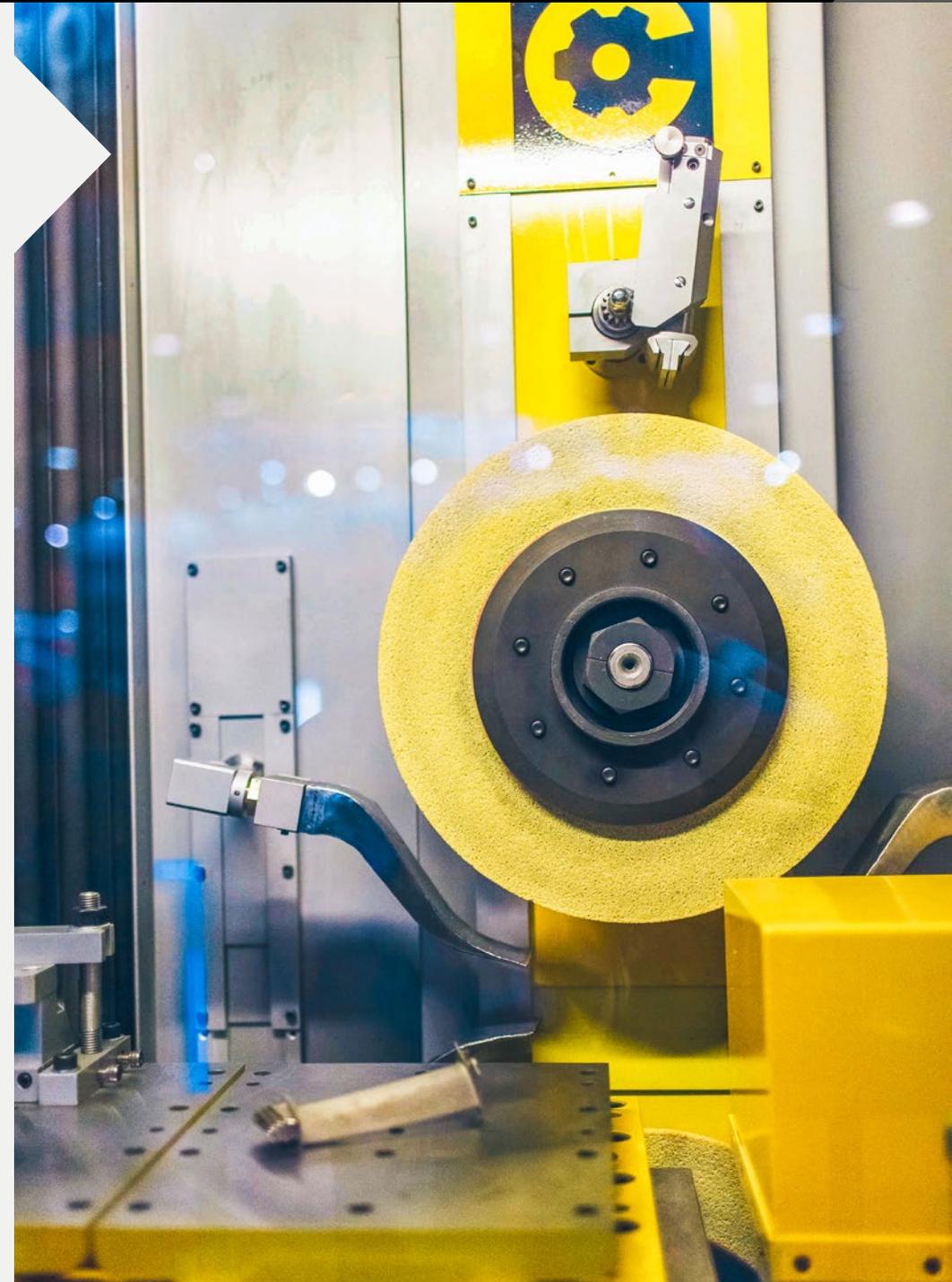
### AUTOMATIC NOZZLE MOVEMENT

The cooling nozzles are moved from one drive with the distribution of torque to two screws having left and right threads, as a result of which the nozzles are either close or move away from each other.



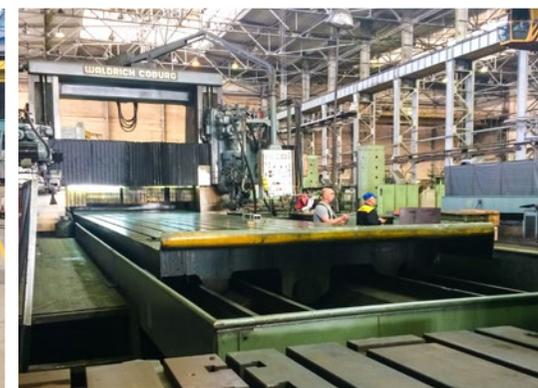
**STAN production in Moscow** — new machines with innovative approaches in mechanical production of GTE gas-air tract parts.

-  High speed
-  “Ever sharp” grinding instrument made of super abrasive
-  Fast automatic instrument changing system
-  Precision quick-change tooling
-  High-power effective cooling
-  Pure metal chips
-  Reducing the cost of grinding operations up to 45%
-  Improving of grinding performance up to 50%





Production specialty for vertical milling processing centers, portal milling machines with moving tables and unique machines



## Vertical milling machines



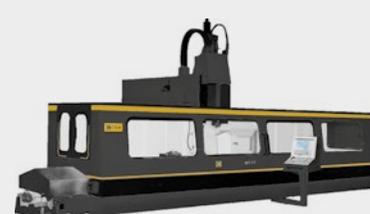
CTF 32 (6M13HK)



CTF 50 TS eco  
(MA-655HK)



STC F66 L (FP-7)



CTF 70 эко (FP-17)



STC F95K (FP-27)/  
STC 60 TN (FP-37)

## Longitudinal milling machine



STC F160 (FP-93)/  
STC 160THL (FP-95)



STC 250THL (BF-5)

## Processing centers



FC-1/FC-2/FC-3

## Turning machines



STT 12 (TFC-125)



STT100-20 TS  
(ATPP-800M1)

## Metal sheet processing machines



RFP-2



RFP-6



UGR-3/UGR-5



660 employees



48 designers,  
40 technological  
engineers



The enterprise owns a full range of the modern processing equipment and metrological service for measurement devices calibration. The enterprise owns the registered calibration mark



Vertical milling machines MA-655BC1, MA-655BC2, FP-27TC, FP-27N3, bed-type milling machine FP-9TC. Special equipment including swaging machine SFKT-30, riveting press KP-204M1, three-roll sheet bending machine GLS-3,5, waterjet cutting machine UGR-3 and others





**STAN**  
AZOV

Bending hydraulic press series VOLKSPRESS, Klassik, Dynamik produced in a Joint venture JSC «SP Donpressmash» in Azov, Rostov region, under the control of the German developed by company STS-Turnpress.



**Brake hydraulic press**



STS-V/VOLKPRESS



STS-K/Klassik



STS-D/Dinamik

**Hydraulic guillotine shears**



STS-G



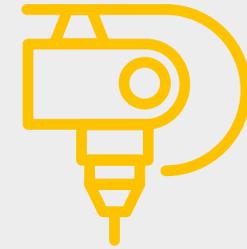
60 employees



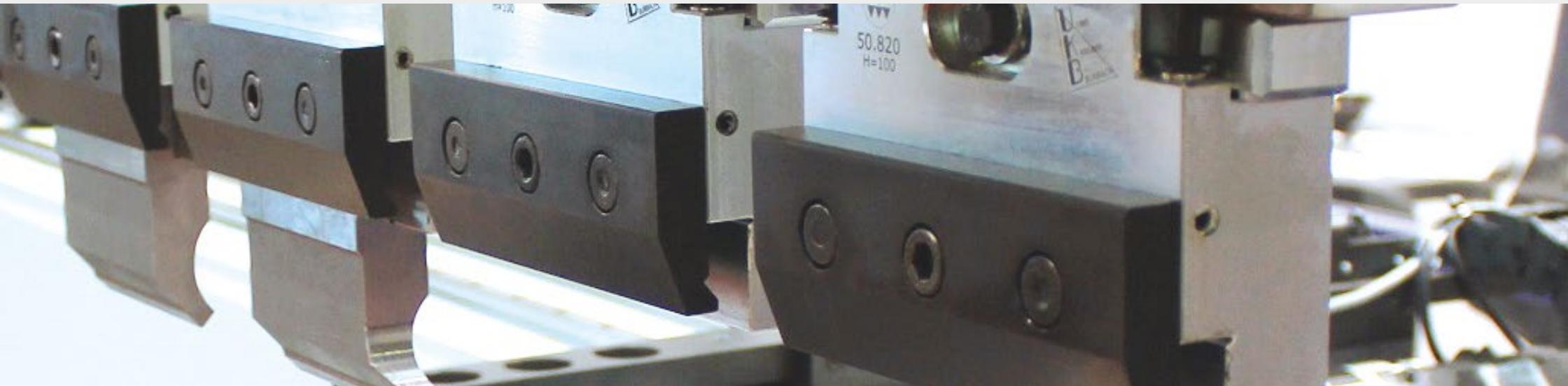
6 designers  
2 technological  
engineers



Following new machines were  
designed by “Donpressmash”:  
metal sheet bending presses  
with 50, 110, 220, 500 tonns  
power, guillotine shears with  
32 mm sheet thickness range



The enterprise  
owns a full range  
of the modern  
processing  
equipment





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[stan-company.ru](http://stan-company.ru)