

НАУЧНО-ПРОИЗВОДСТВЕННЫЙ ХОЛДИНГ

С H E L T E C

УРАЛЬСКИЙ ИНЖИНИРИНГОВЫЙ ЦЕНТР

REFERENCE LIST

**of Projects Developed and Implemented
for the Period since 1995**





URAL ENGINEERING CENTER is a managing company of the Research and Production Holding CHELTEC. Currently the holding is a group of companies that solves comprehensive tasks to create process equipment and production lines and integrates research and development, production, installation, service and training subdivisions.

Ural Engineering Center has its own production, research and development base in the city of Chelyabinsk. In addition, there are representative offices in Moscow and Cherepovets, as well as an enterprise for equipment servicing at Nizhny Tagil Metallurgical Plant.

The main competitive advantage of the holding is a high professional level of employees which can use an integrated approach to solve problems – manufacturing of turnkey complex process equipment, including engineering, software, production, installation, start-up, training and subsequent service support. We have obtained over 80 patents for the development of different units and assemblies.

The main strategic direction of growth is the development of radically new technologies and process modules for mining and smelting, military and industrial, machine-building complex, rail transportation, oil and gas, aviation, aerospace, and shipbuilding industry enterprises.

They trust us



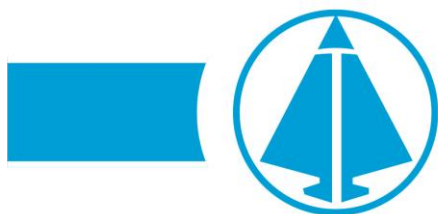


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1. Mining and Smelting Complex.

Iron-and-Steel Industry.

Rolling Production

1.1. Flat Rolled Product Manufacturing

PJSC MMK Group Magnitogorsk Metallurgical Plant, JSC (Magnitogorsk)

1995-1997	Electrical hydraulic system for work roll bending of hot rolling mill 2000 (Patent RU No.2122907)
1997	Electrical hydraulic strip edge servo system for longitudinal cutting unit ЭГСС-Р-10-45 (Patent RU No.2173412 and 2180056)
1998	Hydraulic power unit of continuous pickling line NTA-1
	Hydraulic power units of the head and tail parts of longitudinal cutting unit APR-4,5
	Service fluid treatment system in Sheet Rolling Shop-10
2000	Hydraulic power unit of continuous pickling line NTA-3
	Service fluid treatment system in Sheet Rolling Shop-4
2001	Pumping station of electrolytic degreasing unit in Sheet Rolling Shop-3
	Hydraulic power unit of binding machine
2002	Hydraulic power unit of diverter tool with coil tilter of double-stand reversing mill SMS Demag
2003	Hydraulic system of butt-welding machine MCO-100.06 No.1 and No.2
	Electrical hydraulic servo system of lifting platform for continuous hot dip galvanizing line
	Electrical hydraulic servo system of strip edge in electrolytic tinning unit
2004	Hydraulic drive of lift and turn device and coil tilter NTA-1
	Hydraulic power unit of loading drive in heating machine of section rolling mill 300-3
	Hydraulic power unit of balancing system for backup rolls of temper mill NTA-2
	Hydraulic drive for covers of pickling and rinsing baths NTA-2
	Hydraulic power unit of bundle packing mechanism for mill 300-3
2006	Electrical and hydraulic systems of centering devices for butt-welding machines NTA-1, NTA-2 (five centering devices in each machine)
2007	Servo system for reel strip edge
	Hydraulic drive of shears made by FIMI company
2010-2011	Electrical hydraulic system of exit stand bending in cold-rolling mill 1200 in Sheet Rolling Shop-3
2016	Hydraulic strip servo system HS-000219
2018	Equipment supply for hydraulic descaling system of mill 2000 in Sheet Rolling Shop-10, project together with SIGMA DIZ SPOL.S.R.O.

**Severstal Russian Steel Division. Severstal, OAO (Cherepovets)**

2002	Electrical hydraulic system of work roll bending of rolling mill 1700 in Sheet Rolling Shop-1
2003	Pumping station of work roll balancing system for mill 2000 in Sheet Rolling Shop-2
2016-2018	Hydraulic drive unit for 6, 8, 9, 10 stand movement. Mill 350
2017	Upgrading of lubricating system for oil-lubricated bearings. Mill 1700
2018	Installation of barrier fluid system on motor bearings in mill 2800 in Sheet Rolling Shop-1
2018	Installation of barrier fluid system on motor shaft bearings 1D, 2D, 4D of mill 2800 in Sheet Rolling Shop-1

NLMK-Ural Group. VIZ-Steel, LLC (Ekaterinburg)

2017	Manufacture of strip edge servo systems for decarburizing annealing unit
2018	Restoration of two servo systems for roll preparation units APR-8

1.2. Shape and Bar Production**NLMK-Ural Group. Nizhneserginsky Metalware and Metallurgical Plant, JSC (Nizhniye Sergi)**

2006-2007	Hydraulic equipment and control system of the left and right finishing lines of bar and shape mill 250
2007	Upgrading of binding machines for bar and shape mill 250

PJSC MMK Group Magnitogorsk Metallurgical Plant, JSC (Magnitogorsk)

2004	Hydraulic power unit of loading drive in heating machine of section rolling mill 300-3
	Hydraulic power unit of bundle packing mechanism for mill 300-3

1.3. Pipe Rolling Production**Group of Chelyabinsk Pipe Plant Pervouralsk New Pipe Plant, JSC (Pervouralsk)**

2008	Upgrading of Bracker press for hydraulic testing of pipes with pressure up to 1,000 bar and productivity up to 144 pipes/hour
	Pumping stations of the end facing machine of shop 38
	Pumping station of leveller for cut-to-length section bundle
2010-2011	Test bench for oil and gas supply pipes $\varnothing 57$ - $\varnothing 219$ with pressure up to 400 atm.
2017	Set of test heads for press BRAKKER

TMK. JSC Sinarsky Pipe Plant (Kamensk-Uralsk)

2011-2013	Hydraulic descaling system of hot cutting line mill for hot rolling area of pipes, shop T-3, for pipe shell $\varnothing 120$ - $\varnothing 160$ mm
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TMK. JSC Seversky Pipe Plant (Polevskoy)

2013	Installation, pickling, flushing and pressure testing hydraulic and liquid lubrication pipelines, Tube Rolling Shop-1.
2014	Comprehensive restoration of pipe production with the installation of continuous mill DANIELI
2016	Installation, washing and hydraulic tests of hydraulic and lubrication pipelines

**TMK. Tagmet, JSC (Taganrog)**

2014-2015	Calculation of work-cycle time for hydraulic drive of walking beam furnace
2016	Checking calculation of main power control parameters for hydraulic systems of pipe rolling line to provide for rolling cycle of 27, 25 and 20 seconds

Group of Chelyabinsk Pipe Plant. Chelyabinsk Pipe Plant, JSC (Chelyabinsk)

1998-1999	Hydraulic power unit for pipe cutting machines, models KZH-45D, KZH-45E, KZH-45K, 91A15-1, 91A25-1, 91A38-1, 91A53-1
2001	Upgrading of hydraulic test press hydraulic system for pipes with diameter up to 550 mm and pressure up to 25 MPa
2002	Upgrading of hydraulic control system for straightening press П6242 (shop No.1), force 1,500 ton-force
2003	Pump station for circular saw of Margegali machine, shop No.9
2004	Upgrading of electrical and hydraulic system for moulding press PO753 of tube-welding mill, force 20,000 ton-force in shop No.6 Upgrading of electrical and hydraulic system TPA-140 for hydraulic testing of pipes with diameters up to 114 mm, pressure up to 47 MPa and productivity up to 40 pipes/hour
2006	Upgrading of pushing device hydraulic system for Pilger rolling mill, Tube Rolling Shop-1 (1 stage)
2008	Upgrading of hydraulic system for No.7 pipe hydraulic testing press, shop No.6 (2 stage)
2009-2010	Upgrading of pushing device hydraulic system for made by SMS MEER for Pilger rolling mill 8"-16", shop No.1
2010-2011	Operating pressure and oil level maintenance system in braking chamber of pushing device made by SMS MEER for Pilger rolling mill No.1 Tube Rolling Shop-1

1.4. Ring-Rolling Production**Ruspolymet, JSC (Kulebaki)**

2008	Upgrading of electrical and hydraulic system to control ring-rolling mill KPS-1000
2008-2015	Restoration (creating) of ring rolling mill H 160-S made by Banning
2014	Heavy upgrade and commissioning of robot manipulator

Hydraulic Descaling System**EVRAZ-NTMK. NTMK JSC (Nizhny Tagil)**

2018	Upgrading of hydraulic descaling system for Wheel Tyre Shop
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PJSC MMK Group Magnitogorsk Metallurgical Plant, JSC

2002	Manufacturing, repair, restoration of hydraulic descaling spray valves on mill 2000, Sheet Rolling Shop-10
from 2007 to 2017	Manufacturing, repair, restoration of hydraulic descaling spray valves and plunger type pumps for bar and shape mills 170, 370 and 450 made by Danielli
from 2008	Upgrading of hydraulic descaling spray valves for mills 4500 and 2350
2013	Manufacture and supply of hydraulic descaling manifolds for roughing train in Sheet Rolling Shop-4, Sheet Rolling Shop-10, primary hydraulic descaling manifolds in Sheet Rolling Shop-9



2012	Upgrading of hydraulic descaling system for hot rolling mill 2500
2013	Upgrading and repair of hydraulic descaling spray valves 5000
2014	Hydraulic descaling system for hot rolling mill 2000 (system upgrading set)
2018	Equipment supply for hydraulic descaling system of mill 2000 in Sheet Rolling Shop-10, project together with SIGMA DIZ SPOL.S.R.O.

TMK. JSC Sinarsky Pipe Plant (Kamensk-Uralsk)

2011-2013	Hydraulic descaling system of hot cutting line mill for hot rolling area of pipes, shop T-3, for pipe shell Ø120-Ø160 mm
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Mechel. Chelyabinsk Metallurgical Plant, JSC (Chelyabinsk)

1997	Manufacture and supply of hydraulic descaling spray valves for mill 1700
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Benches for roll assembly and disassembly (ferrous and non-ferrous metal industry)**UMMC. Kirov Non-Ferrous Metals Processing Plant, JSC (Kirov)**

2016	Bench for removal and assembly work-roll chocks Bench for removal and assembly backup roll chocks
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Steelmaking Production**IZHETMASH. BUMMASH JSC (Izhevsk)**

2001	Electrical and hydraulic control system of Arc Steel Furnace DSP-25 with automatic arc control devices
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MECHEL. Ductil Steel, JSC (Romania)

2010-2011	Technical support for hydraulic system restoration for Arc Steel Furnace No.2
2011	Hydraulic system restoration in Arc Steel Furnace No.2 Technical support for hydraulic system in Arc Steel Furnace No.2 and KOSS

NLMK-Ural Group. Nizhny Tagil Metallurgical Plant, JSC (Nizhny Tagil)

2006	Repair of steel ladle hydraulic drive
2010	Overhaul of mechanical equipment for blast furnace No.5 Overhaul of mechanical equipment for blast furnace No.6
	Overhaul of mechanical equipment for converter shop Overhaul of mechanical equipment for blast furnace No.6

PJSC MMK Group Magnitogorsk Metallurgical Plant, JSC (Magnitogorsk)

2003	Electrical and hydraulic arc control device of ladle furnace with capacity of 375 tons
2005	Hydraulic and power unit for sliding gate control Continuous steel casting machine: Continuous Steel Casting Machine No.5. Detailed design for arrangement of lubrication and cooling system pipelines for continuous steel casting machines No. 5 based on URALMASH basic engineering
	2006



	Hydraulic power unit of gas shaft furnace No. 2 of dolomitic production
2008	Hydraulic power unit of quencher

Metalloinvest. Oskolsky Plant of Metallurgical Machinery JSC (Stary Oskol)

2004	Electrical and hydraulic control and diagnostics system No. 6 of Arc Steel Furnace DSP-6 with automatic arc control devices
2006	Hydraulic power control unit No. 1 for Arc Steel Furnace DSP-14
2007	Hydraulic power control unit No. 3 for Arc Steel Furnace DSP-14
	Hydraulic control drive for complex steel processing unit with capacity of 15 tons
	Electrical and hydraulic control and diagnostics system of Arc Steel Furnace No. 4 DSP-6 with automatic arc control devices
2008	Electrical and hydraulic control and diagnostics system No. 5 of Arc Steel Furnace DSP-6 with automatic arc control devices

Ruspolymet, JSC (Kulebaki)

2011	Hydraulic system of steelmaking complex in electrical and mechanical production
	Vacuum pipelines of vacuum steel casting plant for steelmaking complex in electrical and mechanical production

Severstal Russian Steel Division. Severstal, OAO (Cherepovets)

2004	Emergency turning system for steel casting benches URNS 1-5
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Eurasian Resources Group (ERG). Sokolovsk-Sarbaynsk Ore Mining Production Association (Rudny, Kazakhstan)

2010	Electrical and hydraulic control and diagnostics system of Arc Steel Furnace DSP-6 with automatic arc control devices
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Metalloinvest. Ural Steel, JSC (Novotroitsk)

2006	Arrangement of pipelines in hydraulic system of ladle furnace UPK-120 No.1. Design, manufacture and supply of equipment
	Arrangement of pipelines for hydraulic systems, cooling water, compressed air and argon No. 1 in Arc Steel Furnace DSP-120. Design, manufacture and supply of equipment
2008	Arrangement of pipelines for hydraulic systems, cooling water, and compressed air No. 2 in Arc Steel Furnace DSP-120. Design, manufacture and supply of equipment

Holding Creative Machines and Accessories, LLC. Tsentrolit6 JSC (Saransk)

2004	Hydraulic control drive No.1 and No.2 of Arc Steel Furnace DSP-15
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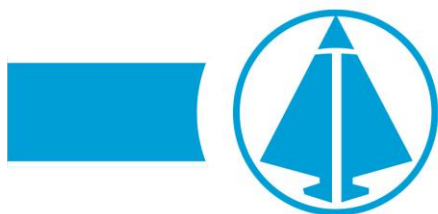
Mechel. Chelyabinsk Metallurgical Plant, JSC (Chelyabinsk)

1999	Electrical and hydraulic control system for complex steel processing facility with capacity of 130 tons with automatic arc control devices (Arc-Furnace Melting Shop-6)
2003	Electrical and hydraulic control system for complex steel processing facility with capacity of 160 tons with automatic arc control devices (oxygen-converter plant)

UMMC-Holding. UMMC Steel, JSC (Tyumen)

2013	Hydraulic system flushing and pressurization for arc steel furnace DSP-80
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Izhevsk Machine Building Association, JSC (Izhevsk)



2015-2016	Upgrading of control system for DSP-25
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NLMK. NLMK, JSC (Lipetsk)

2015-2017	Technical re-equipment of control system for arc steel furnace DSP-25
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Ore-Heating Production**ChEMK. Serov Ferrous Alloy Plant, JSC (Serov)**

2004	Hydraulic power unit of moulding machine SDK-98A
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Mechel. Chelyabinsk Electrical Metallurgical Plant, JSC (Chelyabinsk)

1998	Hydraulic clamping system for contact clamps of electric arc ore smelting furnace No.57
1999	Electrode movement and slip system of electric arc ore smelting furnace No.56
	Hydraulic clamping system for contact clamps of electric arc ore smelting furnace No.56
2000	Electrode movement and slip system of electric arc ore smelting furnace No.42
	Hydraulic clamping system for contact clamps of electric arc ore smelting furnace No.42
2004	Electrode movement and slip system of electric arc ore smelting furnace No.47
	Hydraulic clamping system for contact clamps of electric arc ore smelting furnace No.47
	Electrode movement and slip system of electric arc ore smelting furnace No.55
	Hydraulic clamping system for contact clamps of electric arc ore smelting furnace No.55
2006	Electrode movement and slip system of electric arc ore smelting furnace No.51
	Hydraulic clamping system for contact clamps of electric arc ore smelting furnace No.51
2018	Hydraulic clamping system for contact clamps of electric arc ore smelting furnace No.42 (supplied by SAC, Korea)

Non-Ferrous Metal Industry**Rostec State Corporation. VSMPO-AVISMA PJSC (Verkhnyaya Salda)**

2003	Electrical hydraulic system of radial forging machine R800 made by SACK company
	Electrical hydraulic system of manipulator with loading capacity of 4 tons for forging complex of radial forging machine
2004	Self-contained pumping unit for vacuum-arc furnaces DTV-8,7-G10, 6DTV-10-G10
2005	Upgrading of hydraulic drive for punching press bed with force 160 and 250 ton-force made by LITOSTROJ company
	Upgrading of oil control system for press with force of 10,000 ton-force
	Hydraulic unit of mould clamping pressure stabilization for vacuum arc furnaces DTV-8,7-G10, 6DTV-10-G10
	Overhaul of hydraulic drive for 20-roll mill 1200
	Pumping unit for a complete set of straightening machine, model WRPH80/110
	Pumping unit and control panel for peeling machine Ш7-05
	Upgrading of centerless turning machine 9340K



2006	Electrical and hydraulic servo system for position and reel adjustment relative to strip edge of SKET line
	Upgrading of 17-roll sheet straightening machine 17x75x2,000
2008	Upgrading of hydraulic system for punching press NP-130 with force 30,000 tons in shop No.32
2007	Repair of hydraulic station for machine KRMT 22-24
2008	Hydraulic pressing unit and automatic gauge control system of mill 1200
2009-2011	Upgrading of hydraulic and control system for forging press 103 with force of 3,000 ton-force
2011	Manufacturing of hydraulic plate for slide drive of forging press with force of 160 ton-force made by LITOSTROJ company
	Overhaul of hydraulic system for sheet shears HBP 40x4,000, force 350 ton-force
2010-2012	Hydraulic equipment for forging presses operating with water and water emulsions (shut off control valves to control moving crosshead of presses, two-valve hydraulic control valves with hydraulic and electrical-mechanical control, bypass valves for prefill tanks, safety and check valves)
2017	Hydropneumatic accumulator charging unit
2018	Upgrading of 20-roll cold rolling mill 400, shop No.16

Rusal. RusAl-ArmenAl, JSC (Yerevan, Republic of Armenia)

2003	Hydraulic cooling system for work rolls of aluminum direct rolling unit APB-1600
2015	Upgrading of hydraulic systems for single-stand rolling mill KVARTO-1800
2016	Delivery of pump-and-accumulator station, installation of equipment and pipelines, commissioning of equipment supplied for KVARTO-1800 mill

Sual International. Siberian-Ural Aluminum Company, JSC (Novodvoitsk, Republic of Karelia)

2005	Hydraulic drive to control mixer tilt CAMП-15
2007	Hydraulic drive to control mixer tilt CAMП-50

Alcoa. Samara Metallurgical Plant, JSC (Samara)

2007	Restoration of pump and accumulator station of forging and press production
2008	Upgrading of electrical and hydraulic control system for horizontal press PB 8841 force 1,250 ton-force
2014	Mill 2300, detail design of process pipelines: hydraulic system 250 bar (FPOHCY-PH01-H5101), hydraulic system 90bar (FPOHCY-PH01-H5001), compressed air system, roll cooling system
2014-2015	Installation, flushing and pressurization of process pipelines in hydraulic systems in the scope of technical re-equipment of rolling mill 2300 in shop No.2
	Project works based on basic engineering DANIELI in the scope of technical re-equipment of single-stand rolling mill 2300
2015	Design works on the replacement of high-pressure pipeline (water) in the scope of technical re-equipment of pump and accumulator station sections No.4 and No.5 of press 170
2017	Execution of the project on installation of liquid bleeding valves (upgrading of pump and accumulator station, Inv. 404067)
2018	Upgrading of central pusher control system for press 170

Rusal. Ural Foil, JSC (Mikhailovsk)



2008	Hydraulic cooling system for work rolls of aluminum direct rolling unit APB-1600
2015	Upgrading of hydraulic systems for single-stand rolling mill KVARTO-1800
2017-2018	Upgrading of strip slitting line Slitting Line-1600
UMMC. Uralektromed JSC (Verkhnyaya Pyshma)	
2010-2011	Upgrading of starting-sheet blank No.2 Wennberg, Copper Electrolysis Shop
2018-2019	Upgrading of hydraulic control system for press of automatic packaging in plastic tape, copper wire rod production shop
UMMC. Uralektromed, JSC, Branch of Polymetal Production (Kirovgrad)	
2014	Installation of pipelines and pre-commissioning of roll press 4034 Ludman hydraulics
UMMC. Chelyabinsk Zinc Plant, JSC (Chelyabinsk)	
2000	Pump station of zinc pig stacker NS 07-00
2002	Cathode production for electrolytic deposition of non-ferrous metals
VSMPO-AVISMA PJSC (Beresnyaki)	
2018	Overhaul of press ДЕ2432.01 (2 pieces) in shop 48

2. Works Performed for Different Branches of Industry

Press Forging Production

IZHETMASH. BUMMASH JSC (Izhevsk)

2001	Electrical and hydraulic control and diagnostics system for forging complex 2,000 tons
2011	Technical audit of electronic hydraulic and mechanical equipment for forging complex No. 2

Volgograd Metallurgical Plant "Red October" "PP "Barricades", JSC (Volgograd)

2008-2009	Repair and maintenance of hydraulic equipment for DeviMacchi 8/13 ton-force automated forging complex
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Rostec State Corporation. VSMPO-AVISMA JSC (Verkhnyaya Salda)

2003	Electrical hydraulic system of radial forging machine R800 made by SACK company
	Electrical hydraulic system of manipulator with loading capacity of 4 tons for forging complex of radial forging machine
2005	Upgrading of hydraulic drive for die press bed with force 160 and 250 ton-force made by LITOSTROJ company
	Upgrading of oil control system for press with force of 10,000 ton-force
	Upgrading of centerless turning machine 9340K
2007-2008	Upgrading of hydraulic system for die press NP-130 with force 30,000 tons in shop No.32
2009-2011	Upgrading of hydraulic and control system for forging press 103 with force of 3,000 ton-force



2011	Manufacturing of hydraulic plate for slide drive of forging press with force of 160 ton-force made by LITOSTROJ company
2010-2012	Hydraulic equipment for forging presses operating with water and water emulsions (shut off control valves to control moving crosshead of presses, two-valve hydraulic control valves with hydraulic and electrical-mechanical control, bypass valves for prefill tanks, safety and check valves)
2018	Upgrading of 20-roll cold rolling mill 400, shop No.16
2018	Overhaul of presses ДЕ2432.01 (2 pcs.)

Rostec State Corporation. VSMPO-AVISMA PJSC (Beresnyaki)

2018	Overhaul of press ДЕ2432.01 (2 pieces) in shop 48
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Alcoa. Samara Metallurgical Plant, JSC (Samara)

2007	Restoration of pump and accumulator station of forging and press production
2008	Upgrading of electrical and hydraulic control system for horizontal press PB 8841 with force of 1,250 ton-force
2018	Upgrading of central pusher control system for press 170

Severstal Russian Steel Division. Severstal PJSC

2006	Electrical and hydraulic control system for baling press CPA-1250 (Patent RU No. 212163318)
2017	Upgrading of press complex with force 20 MN

Serov Ferrous Alloy Plant, JSC (Serov)

2004	Hydraulic power unit of moulding machine SKD-98A
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MI Kalinin Machine Building Plant JSC

2017	Upgrade of 630 tf hydraulic punching press P315V
	Upgrade of 2000 tf hydraulic press CMC CLEARING HYDRAULIC H-2200-80-D
	Overhaul of sheet straightening machine UBR

OMK. Trubodetal, JSC (Chelyabinsk)

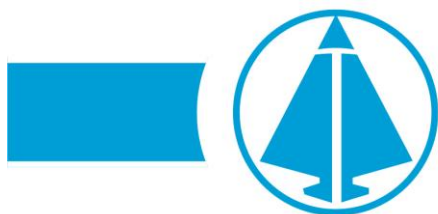
2008	Emergency troubleshooting of Roundo sheet bending press
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United Heavy Machinery Plants Uralkhimmash, JSC (Ekaterinburg)

2007	Repair of 400 tf press P3236
2011-2012	Upgrading of double-acting vertical hydraulic punching press with force 4,000/6,500 ton-force
2013	Upgrade, assembly and installation of Tvedl press

Metallurgical Plant "Electrostal", JSC (Electrostal)

2011	Upgrading of hydraulic and control systems for horizontal profile press with force of 6,300 ton-force, model П8148
2011-2012	Upgrading of hydraulic and control systems for moving crosshead of press with force of 6,300 ton-force, model П8148 (1 stage)
2013	Upgrading of auxiliary mechanisms of press with force of 6,300 ton-force, model П8148 (2 stage)
2014-2015	Upgrading of auxiliary mechanisms of press with force of 6,300 ton-force, model П8148 (3 stage)

**EVRAZ-NTMK. NTMK JSC (Nizhny Tagil)**

2012	Upgrading of pressing and rolling line for wheels made by SMS Eumuco company in Wheel Tyre Shop
2014	Overhaul of floor robot manipulator

Brick Plant Athena, LLC (Chelyabinsk)

2014-2015	Upgrade of press for production of ash and one-and-half solid bricks, 6 DOP-CKO Mitsubishi Fukai press (increase in productivity)
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Northern Metal Center, LLC, St. Petersburg

2015	Upgrade of 2000 tf UNITED press
2018	Dismantling, overhaul of P156 press and manipulator

Production Association UralVtorMet, LLC, Yekaterinburg

2017	Production of support finger for Genesis IX200 press scissors
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Stankomash, LLC, Chelyabinsk

2017	Refurbishment and upgrade of 800 tons hydraulic press P3239, inv. No. 49
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Mechel. Chelyabinsk Metallurgical Plant, JSC (Chelyabinsk)

2002	Electro-hydraulic control system of forging complex manipulator with a load capacity of 20 tf (Press shop)
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Chelyabinsk Forge-and-Press Plant, PJSC (Chelyabinsk)

2017	Repair and Upgrade of 1000 tf press P075
2018	Overhaul and Upgrade of DE2238 press control system
2018	Upgrade of rotary drawing machine

Auxiliary mechanical equipment for productions**Interves, LLC (Novosibirsk)**

2010	Hydraulic system of table-type scales for metal-roll weighing
2011-2012	Hydraulic system of table-type scales for metal-roll weighing

Mechel. Chelyabinsk Metallurgical Plant, JSC (Chelyabinsk)

1997	Hydraulic power unit for CBKh-80M centerless turning machine (Rolled product No.1)
2000	Hydraulic power unit for CBKh-80M centerless turning machine (Rolled product No.1)
2001	Hydraulic power unit for CBKh-80M centerless turning machine (Rolled product No.1)

Energetik-1, LLC (St. Petersburg)

2009	Pumping station for KZh 3404 roll grinding machine
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Rostec State Corporation. VSMPO-AVISMA Corporation, JSC (Verkhnyaya Salda)

2005	Upgrade of 9340K centerless turning machine
2007	Repair of hydraulic unit for KRMT 22-24 machine
2011	Overhaul of hydraulic system for NVR 40x4000 plate cutter with a force of 350 ton-force

**Systems of grease and oil lubrication, treatment station for working fluids****OMK. Vyksa Steel Works, JSC (Vyksa)**

2012	Installation of greasing unit for rolling table of the gas cutting machine at 5000 mill
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NLMK-Ural Group. CJSC Nizhneserginsky Metalware and Metallurgical Plant (Berezovsky)

2008	Etching, flushing and pressure testing of pipelines for oil and grease lubrication systems of DANIELI section mill
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Severstal Russian Steel Division. Severstal, PJSC (Cherepovets)

2017	Development, design and supply of PZhT lubrication system for 1700 mill 1700 in Plate Rolling Shop-1
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Transneft. Transneft. Oil Pumps, JSC (Chelyabinsk), Konar JSC (Chelyabinsk)

2015	Multi-purpose pumping assembly for oil lubrication and cooling for sliding bearings of mainline pumping units
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Uralasbest, LLC (Asbest)

1999	Multistage Oil Treatment Station
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2008	Multistage Oil Treatment Station
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Mechel. Chelyabinsk Metallurgical Plant, JSC (Chelyabinsk)

2002	Multistage Oil Treatment Station
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Installation and washing of hydraulic equipment and pipeline systems**Bosch Rexroth AG (Germany)**

2009-2011	Hydraulic system piping for Project of the second stage of reconstruction and restoration of the State Academic Bolshoi Theater of Russia
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2011	Installation of steel structures and industrial equipment in the upper and lower mechanization zones for the State Academic Bolshoi Theater of Russia
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OMK. Vyksa Steel Works, JSC (Vyksa)

2011	Flushing and hydraulic testing of pipelines of hydraulic and oil lubrication systems at section of reheat furnaces No. 1, 2 – PM01 and at section of cutting line – PM04 at the facility: Complex of 5000 Plate rolling mill for production of flat-rolled products from low-alloyed steel
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	Commissioning of hydraulic systems No. 9, 10, 11 at the section of the cutting line – PM04 at the facility: Complex of 5000 Plate rolling mill for production of flat-rolled products from low-alloyed steel
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2012	Installation of greasing unit for rolling table of the gas cutting machine at 5000 mill
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Evraz Caspian Steel LLP, Kazakhstan, Kustanai

2014	Etching and washing of oil lubrication pipelines for small section mill with a capacity of 450 thousand per year
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PJSC MMK GROUP. Magnitogorsk Iron and Steel Works, OJSC (Magnitogorsk)

2004-2005	Pipeline Washing Station
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2009	Hot Rolling Mill 5000: Installation and flushing of the hydraulic and lubrication system of oil base No. 5
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	Coke chemical battery No. 4: installation of hydraulic power unit for riser opening
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2010	Coke chemical battery No. 3: installation of hydraulic power unit for riser opening
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2011	Cold rolling mill 2000: Installation and flushing of hydraulic piping system at Plate rolling Shop-11
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**NLMK-Ural Group. CJSC Nizhneserginsky Metalware and Metallurgical Plant (Nizhniye Sergi)**

2007	Installation, etching, flushing and pressure testing of hydraulic pipelines of section mill 250
2008	Etching, flushing and pressure testing of pipelines for oil and grease lubrication systems of DANIELI section mill

JSC Ruspolimet (Kulebaki)

2012	Installation of vacuum lines for steel degassing plant of steel making complex
	Installation, flushing and pressure testing of hydraulic pipelines of DANIELI steel making complex: Arc melting furnace DSP-6 Ladle-furnace, 6 t Degasser, 6 t
	Installation, flushing and pressure testing of hydraulic system and grease lubrication pipelines of DANIELI forging complex 1600 t Installation of piping for wire feeding machines of steel degassing unit in electric magnet furnace Installation of off-gas samplers and piping of the preparation system for gas VOD analysis using Thermo Fisher mass spectrometer for steel degassing unit in EMF
	Etching, flushing and pressure testing of hydraulic system pipelines of 35 MH DANIELI forging press
2015 2016	

Alcoa. CJSC Alcoa-SMZ, Samara

2014 2015	Installation, flushing and pressure testing of process pipelines for hydraulic system within the frame of technical upgrading of rolling mill 2300 in Shop No.2
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Severstal Russian Steel Division. JSC Severstal-The Balakovo Sorting Plant, Saratov region, Balakovo district

2013	Installation, flushing and pressure testing of hydraulic system (pipeline system), and lubrication system of PShB-200 reheat furnace and DANIELI hot and cold charging section
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TMK. Seversky Pipe Plant, JSC (Polevskoy)

2013 2014	Installation, etching, flushing and pressure testing of hydraulic and oil lubrication pipelines of Pipe Rolling Shop-1. Complex reconstruction of pipe rolling production with the installation of DANIELI continuous rolling mill
2016	Installation, flushing and hydraulic tests of hydraulic and lubrication pipelines

NLMK. OJSC Stoylynsky GOK (Stary Oskol)

2016	Pelletizing plant Integrated flushing and pressure testing of lubrication and cooling system pipelines of rolling crushers and fans for
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Transneft. Transneft. Oil Pumps, JSC (Chelyabinsk), Konar JSC (Chelyabinsk)

2015	Installation for flushing of piping internal cavity
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Industrial and metallurgical holding. PJSC TulaChermet (Tula)

2017	Installation of hydraulic and grease lubrication pipelines for reheat furnaces of Mill 9501 and Mill 9511 of foundry-rolling complex
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UGMK. OJSC Uralelectromed (Verkhnyaya Pyshma)

2011	Installation of hydraulic equipment of anode machine at copper smelting shop
	Installation of hydraulic equipment made by Outotec (Finland) Copper Electrolysis Shop No.2
2012	Installation of hydraulic equipment in Copper Smelting Shop. Complex of A-5 Anode Furnace

**UGMK. OJSC Uralelectromed, Polymetallic Production branch (Kirovgrad)**

2014	Pipeline installation and commissioning of Ludman 4034 roller press
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UGMK. UGMK-Steel OJSC (Tyumen)

2013	Etching, flushing and pressure testing of hydraulic and lubrication system pipelines: arc-melting furnace DSP-70, ladle furnace 70t, vacuum generator 70t, continuous casting machine, rolling mill, some finishing sections
2016	Integrated flushing and pressure testing of lubrication and cooling system pipelines for finishing line for hex-shaped rolled products (KE52), bar straightening line (KE31), bar finishing line (KE51)

Kliver, LLC, Kalinigrad

2015 2016	Installation and commissioning of systems of BUK 320E-BM drilling rig
2018	Installation of the hydraulic circuit for BUK 2007 drilling rig, including installation materials and accessories.

Test complexes**Rostec State Corporation. Aviaagregat, JSC (Samara)**

2012- 2015	Long-run test bench for main landing gear of TU-214 aircrafts Long-run test bench for nose landing gear of TU-214 aircrafts Long-run test bench for main landing gear of KA-62 helicopters Long-run test bench for tail landing gear of KA-62 helicopters
2016- 2019	Bench for repeated static and long-run tests for main landing gear of IL 112V aircraft Bench for repeated static and long-run tests for nose landing gear of IL 112V aircraft

Baker Hughes B.V. (Netherlands)

2010- 2011	Bench for acceptance and process tests of power cables
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TMK. Volzhsky Pipe Plant, JSC Volzhsky

2014- 2015	Testing complex for equipment set up and repair (servo, proportional and discrete equipment and pumps)
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Gazprom. Gazprom-Transgaz, JSC (St. Petersburg)

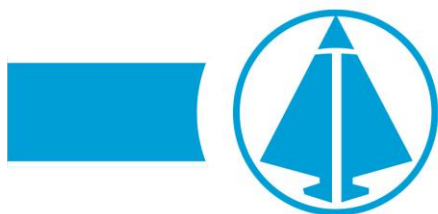
2008	Bench for static and long-run tests for new generation pipes for main gas pipelines with a diameter of up to 1,420 mm and pressure up to 40 MPa
2009- 2010	Technical support of prototype pipes testing at the bench

OMK. Vyksa Steel Works, JSC (Vyksa)

2016	Technical support of prototype pipes testing at the bench of Gazprom-Transgaz, JSC
2017	Technical support of prototype pipes testing at the bench of Gazprom-Transgaz, JSC

Transneft. Konar JSC (Chelyabinsk) Transneft JSC Oil Pumps, JSC (Chelyabinsk)

2015	Testing center Construction of plant to localize pumping equipment production. Bench for pressure and strength hydraulic testing of pump houses
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**Transneft. Transneft, PJSC (Moscow)**

2018 current	Production of parametric test bench for large-scale models of flow-through parts of pumping equipment
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Gazprom Kopeisk Pipe Insulation Plant, JSC (Kopeisk)

2005-2006	Hydraulic test bench for pipes $\varnothing 530$ - $\varnothing 1420$ of main gas pipelines
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ChTPZ Group. Pervouralsk New Pipe Plant, JSC (Pervouralsk)

2008	Upgrade of Bracker press for hydraulic testing of pipes with pressure up to 1000 bar and capacity up to 144 pipes / hour
2010-2011	Bench for testing oil and gas line pipes $\varnothing 57$ - $\varnothing 219$ with pressure up to 400 atm

PJSC MMK GROUP. Magnitogorsk Iron and Steel Works, OJSC (Magnitogorsk)

2001	Multistage Oil Treatment Station
2003	Test bench for discrete hydraulic equipment of attached and modular design for Plate Rolling Shop-5
2004	Test bench for servo- and proportional equipment at Plate Rolling Shop-4

EVRAZ-NTMK. JSC NTMK (Nizhny Tagil)

2014-2015	Testing complex for equipment set up and repair (servo, proportional and discrete equipment and pumps)
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Roscosmos State Corporation Federal State Organization Gagarin Research and Test Cosmonaut Training Center (Zvezdny gorodok)

2012	Hydraulic power unit for emergency turning of centrifuge
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Roscosmos State Corporation Academician M.F. Reshetnev Information Satellite Systems JSC (Zheleznogorsk, Krasnoyarsk Territory)

2018-2020	Air supply system of ARC-1500 acoustic reverberation chamber
2018	Photogrammetric system "FS-1"
2019	Provision of non-standard process equipment for MIK mechanical testing complex Multi-purpose three-axis servo-hydraulic vibro-bench

United Rocket and Space Corporation. Proton PM, JSC (Perm)

2014-2016	Manufacturing of process equipment prototypes- hydraulic test bench
2014-2016	Manufacturing of process equipment prototypes- temporary frame
2014-2015	Manufacturing of prototypes of technological equipment - rolling pad

Partner and Co, JSC (Magnitogorsk)

2001	Test bench for pumps and hydraulic motors of road-building machines
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ChelPipe Group. Pervouralsk New Pipe Plant, JSC (Pervouralsk)

2006	Bench for hydraulic fatigue life testing of cylinders
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**Remmatra, JSC (Rasskazovo, Tambov region)**

2006	Test bench for mobile machine pumps for gas and oil pipelines
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RMK Revyakinsky metalrolling plant, JSC (Tula region, Yasnogorsky district, Revyakino settlement).

2013	Test bench for discrete hydraulic equipment
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2014	Production and supply of the adapter plate for previously installed test bench for hydraulic equipment
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TMK. Seversky Tube Works, JSC (Polevskoy)

2007	Multipurpose test bench for servo-, proportional and discrete equipment
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2016	Installation, washing and hydraulic tests of hydraulic and lubrication pipelines
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TMK. Sinarsky Tube Works, JSC (Kamensk-Uralsk)

2017-2018	Testing complex for equipment set up and repair (servo, proportional and discrete hydraulic equipment, pumps, hydraulic cylinders, high-pressure hoses) in shop T-2
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Surgutneftegaz, JSC (Surgut)

2010-2011	Test bench for towers (masts) of lifting units for Talakan Process Transport Department UTT No 1
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2011-2013	Test bench for cargo lifting units
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Rosneft (Dolgano-Nenets Autonomous Area)

2018	Test bench for towers (masts) of lifting units
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PO TREK (Miass)

2015	Bench for the endurance tests of Ford car racks
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Uraltech-Trans, LLC (Chelyabinsk)

1998	Test bench for pumps and hydraulic motors of road-building machines
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Ural Steel, JSC (Novotroitsk)

2005	Multipurpose test bench for servo-, proportional and discrete equipment
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2010-2011	Testing complex for equipment set up and repair (servo, proportional and discrete equipment, pumps, batteries and hydraulic cylinders)
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Ural Plant of Electrical Machines, CJSC (Lysva)

2010-2011	Supply of press equipment for pressure check of active iron cores of electrical machine stators by a force of 1100 kN
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Uraltrubprom, JSC (Sverdlovsk region, Pervouralsk)

2013	Design, manufacture and supply of hydraulic press for pressure and strength testing of pipe socket-and-spigot joints for Section of casing threading
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2. Machine Building Complex

Volgogradneftemash, JSC (Volgograd)

2015	Overhaul of VERRINA three-roll plate bending machine
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2016	Upgrade project of the pump unit three-roll plate bending machine DWVH-3600/253-V
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Drobmash, CJSC (Vyksa)



2017	Stepladder hydraulic lifting system
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United heavy machinery plants Uralkhimmash, JSC (Ekaterinburg)

2007	Repair of 400 tf press P3236
2011-2012	Upgrade of 4000/6500 tf double-acting vertical hydraulic punching press
2010-2011	Upgrade of Verrins plate bending rolls in Shop No.15
2013	Upgrade, assembly and installation of Tvedl press

PO TREK (Miass)

2015	Bench for the endurance tests of Ford car racks
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Rostec State Corporation. ChTZ-UralTrak, LLC (Chelyabinsk)

2008	Development and production of commercial prototype for new model of backhoe loader (3 pcs.)
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3. Railway Complex

Russian Railways, JSC (Asbest)

2000	Hydraulic equipment of straightening, trimming and leveling machines
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Car Building Research Institute, JSC (Moscow)

2011	Hydraulic equipment of static test bench for SI-400 railway cars
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4. Military-Industrial Complex

Rostec State Corporation. Aviaagregat, JSC (Samara)

2012-2015	Long-run test bench for main strut of TU-214 aircrafts Long-run test bench for nose strut of TU-214 aircrafts Long-run test bench for main strut of KA-62 helicopters Long-run test bench for tail strut of TY-62 helicopters
2016	Bench for repeated static and long-run tests for main strut of IL 112V aircraft Bench for repeated static and long-run tests for nose strut of IL 112V aircraft

Almaz-Antey Concern. MI Kalinin Machine Building Plant JSC

2017	Upgrade of 630 tf hydraulic die press P315V Upgrade of 2000 tf hydraulic press CMC CLEARING HYDRAULIC H-2200-80-D
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Roscosmos State Corporation Federal State Organization Gagarin Research and Test Cosmonaut Training Center (Zvezdny gorodok)

2012	Hydraulic drive for emergency turning of centrifuge for training cosmonauts
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Roscosmos State Corporation Academician M.F. Reshetnev Information Satellite Systems JSC (Zheleznogorsk, Krasnoyarsk Territory)

2018-2020	Air supply system of ARC-1500 acoustic reverberation chamber
2018	Supply of photogrammetric system (FS-1)
2019	Provision of non-standard process equipment for MIK mechanical testing complex Multi-purpose three-axis



	servo-hydraulic vibro-bench
Rosatom State Corporation. N.A. Dollezhal Scientific Research and Design Institute of Energy Technologies, JSC (NIKIET) (Moscow)	
2008-2009	Production of prototypes and researches to determine the hydraulic parameters and visualize the flow in the internal channels of cooling system elements of ITER fusion reactor
United Rocket and Space Corporation. Proton PM, JSC (Perm)	
2014-2016	Manufacturing of process equipment prototypes- hydraulic test bench
2014-2016	Manufacturing of process equipment prototypes- temporary frame
2014-2015	Manufacturing of prototypes of technological equipment - rolling pad
"Volgograd Metallurgical Plant" Red October "PP" Barricades ", CJSC (Volgograd)	
2008-2009	Repair and maintenance of hydraulic equipment for "DeviMacchi" 8/13 ton-force automated forging complex
Stankomash, LLC, Chelyabinsk	
2017	Refurbishment and upgrade of 800 tons hydraulic press P3239, inv. No. 49

5. Fuel and Power Complex and Oil and Gas Complex

Baker Hughes B.V. (Netherlands)

2010-2011	Bench for acceptance and process tests of power cables
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RusHydro. Volga and Dagestan Hydroelectric Stations

2002-2003	Electro-hydraulic regulators for hydro turbines at Volga and Dagestan hydroelectric stations
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Gazprom. Gazprom-Transgaz, JSC (St. Petersburg)

2008	Bench for static and long-run tests for new generation pipes for main gas pipelines with a diameter of up to 1,420 mm and pressure up to 40 MPa
2009-2010	Technical support of prototype pipes testing at the bench

Gazprom. Kopeisk Pipe Insulation Plant, JSC (Kopeisk)

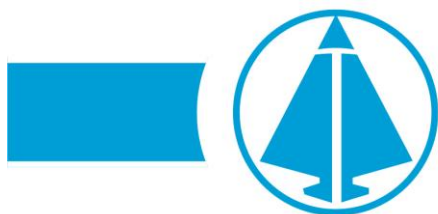
2005-2006	Hydraulic test bench for pipes $\varnothing 530$ - $\varnothing 1420$ of main gas pipelines
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Kärcher, LLC (Chelyabinsk)

2015-2016	Positioning and feeding device for hydrodynamic cleaning heads of vertical shell-and-tube heat exchangers
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Kliver, LLC (Kaliningrad) for SGK-Burenie, LLC and Eurasia Drilling Company, LLC

2013-	BUK-200 GSA 153-00.00.000 RE Hydraulic system for drilling rig moving and leveling
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2014	
2015-2016	Production of hydraulic equipment sets for GSA drilling rig 153-13.00.000
2017	Design, manufacture and supply of hydraulic equipment sets of GSA 186 drilling rig
2018	Design, manufacture and supply of 7 hydraulic equipment sets for GSA 186 drilling rig; 2 sets of hydraulic cylinders, control panels
2018	Installation of hydropneumatic circuits

EVRAZ-NTMK. Nizhny Tagil Metallurgical Plant, JSC (Nizhny Tagil)

2010	Heat supply to the building sections of Railway Wheel Tire Shop
	Heat supply and section fencing system of Converter Shop

Rosatom State Corporation. FSUE Instrument-Making Plant (Trekhgorny)

2009-2011	Control system of drilling rig floor wrench
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Transneft. Stankomash Industrial Park. Russian electric motors, JSC

2017 - 2018	Copper Wire Unwinder
	Sliding protective cover of the balancing machine pit
	Forming press for rotor coils
	Hydraulic test chamber

Surgutneftegaz. Surgutneftegaz, JSC (Surgut)

2010-2011	Test bench for towers (masts) of lifting units for Talakan Process Transport Department UTT No 1
2011-2013	Test bench for cargo lifting units

Rosneft (Dolgano-Nenets Autonomous Area)

2018	Test bench for towers (masts) of lifting units
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Transneft. Transneft. Oil Pumps, JSC Konar CJSC

2015	Design of process part for pump test bench. Manufacture and supply of process equipment for the pump test bench
	Design, supply, installation and commissioning of equipment for test center cooling tower
	Device for assembly and disassembly of pump rotors
	Multi-purpose pumping assembly for oil lubrication and cooling for sliding bearings of mainline pumping units
	Bench for pressure and strength hydraulic testing of pump houses
	Washing Installation of piping internal cavity

Transneft. Transneft, PJSC (Moscow)

2018	Production of parametric test bench for large-scale models of flow-through parts of pumping equipment (Transneft Research Institute)
2018	Development of accelerated life test method and design documentation package for accelerated life test bench for main pump rotors (Transneft Research Institute)





НАУЧНО-ПРОИЗВОДСТВЕННЫЙ ХОЛДИНГ

С Ш Е Л Т Е С

УРАЛЬСКИЙ ИНЖИНИРИНГОВЫЙ ЦЕНТР

2018	Production of pipe durability test bench (Transneft-Diascan)
Uralmash-NGO Holding. Uralmash-Drilling Equipment CJSC (Ekaterinburg)	
2007	Mobile modular electric steam generator PGM 500
Innovative development for well testing	
2013	Hydraulic unit for oil production by submersible sucker rod pumps





Quality Policy

Ural Engineering Center is a specialized engineering enterprise for the development of both individual technological units and integrated lines for various industrial complexes.

The company is aimed to design and manufacture equipment meeting requirements and expectations of consumers in terms of quality, functional characteristics and purpose.

Main activities in the field of quality:

- Keeping and strengthening the position of high-quality product manufacturer;
- Provision of consumers with products of adequate quality and in terms established by contracts;
- Development and implementation of new products and services;
- Development of partnerships and strengthening the prestige of a reliable partner;
- Making sustainable profits to improve financial stability of the company and welfare of each employee.

Implementation of the quality policy through:

- Improvement and provision of compliance with ISO 9001: 2015;
- Leadership of top management and managers of each department in quality improvement activities, permanent demonstration of commitment to quality improvement through personal example and involvement of staff in the quality management process;
- Systematic study of consumer demand to meet customer requirements and expectations more completely and expand markets;
- Application of modern technologies, new equipment and production upgrades;
- Product quality control at all stages, taking corrective and preventive measures timely;
- Empowering each employee with required authority and responsibility for the quality of the work performed;
- Maintaining the required level of staff competency through certification, retraining and professional development.

Quality management system of Ural Engineering Center, LLC is certified and successfully applied in accordance with ISO 9001: 2015.

[TUV certificate of quality management system by ISO 9001:2015](#)

Certificates, licenses

Ural Engineering Center, LLC is certified by:

[SSRO](#) and [PSRO](#) certificates of admission to the some kind works for self-regulating organization

Ural Engineering Center, LLC is a member of UralZhilKomStroy, Union of self-regulating organizations, Registration No. 0264 dated January 13, 2012

Ural Engineering Center, LLC is a member of REPRA non-commercial partnership of self-regulating organizations,

[Certificate of conformity for hydraulic cylinders](#)

[Certificate of conformity for the hydraulic electric stations](#)

certificate of registration as "Leading organizations of Russia" <http://www.cheltec.ru/Licenses/> - ved



НАУЧНО-ПРОИЗВОДСТВЕННЫЙ ХОЛДИНГ

С Н Е Л Т Е С

УРАЛЬСКИЙ ИНЖИНИРИНГОВЫЙ ЦЕНТР

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