



**TERMINAL**  
**STROYINVEST**  
**FACTORY**

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**Coiled tubing drilling rigs  
equipment**

# TerminalStroyInvest LLC



**TERMINALSTROYINVEST LLC** is a modern, fast developing engineering company that provides manufacturing, designing, process, marketing and maintenance services. The team core includes highly qualified specialists with extensive experience in selecting, designing and manufacturing equipment for the oil and gas industry. This allows the company to execute the most complex orders, including according to special customer's requirements.

**TERMINALSTROYINVEST** has production facilities and capacities that allow executing orders for manufacturing equipment and metal structures of any complexity and scope at a high technical level within customer specified terms. Production workshops of **TERMINALSTROYINVEST LLC** are equipped with state-of-art lifting and welding equipment, as well as metal-working machines from domestic and foreign suppliers. The company has its own design bureau that allows quickly designing parts and assemblies of any complexity for manufacturing within a short time, as well as designing non-standard equipment and metal structures according to the customer's requirements.

The main activities of the company:

**1. Designing and manufacturing of blow out preventers:**

For coiled tubing equipment;

For hydraulic fracturing (multistage hydraulic fracturing);

For drilling;

For well workover;

For side-tracking (SXL);

Manufacturing hydraulic control stations (well-control equipment);

**2. Phase-out of imported equipment, components and spare parts;**

**3. Long term lease of well-control equipment**

**TERMINALSTROYINVEST** is a resident of Tyumen INDUSTRIAL PARK West Siberian Innovation Center, State Autonomous Institution of the Tyumen region. Thanks to this cooperation, we interact with industrial institutes of the Tyumen region and the Ural Federal District, materials science departments, professors. The company's work is supported by the government of the Tyumen region.

All products have been tested by an independent accredited testing center, and declarations of conformity valid throughout the territory of the entire Eurasian Economic Union have been issued based on the examination conducted. In addition, the company has the following certificates: GOST R ISO 9001-2015 (ISO 9001: 2015), GOST R ISO 14001-2016 (ISO 14001: 2015), GOST R 54934-2012 (OHSAS 18001: 2007).

# TerminalStroyInvest LLC



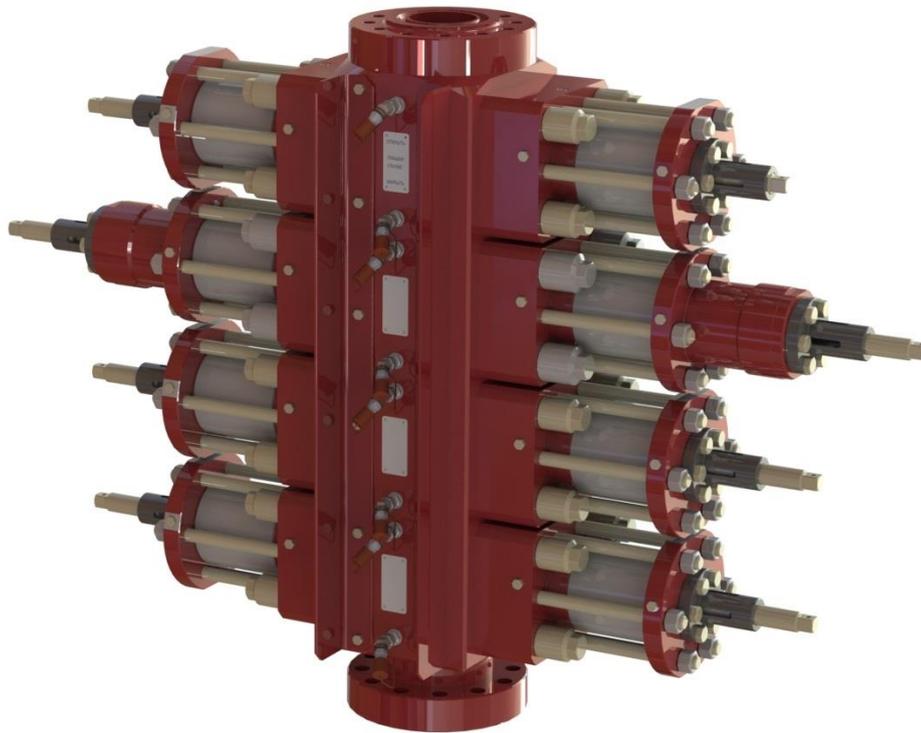
**TERMINALSTROYINVEST LLC is the only Russian designer and manufacturer of high-quality blowout preventers for coiled tubing drilling rigs.**

**The equipment is patented, certified and successfully tested, and operates in the Far North. The equipment is delivered packed, with a set of operational documentation, certificates of pressure testing, certificates of conformity in accordance with GOST and TU.**





## COILED TUBING RAM PREVENTER PPK-130x105(70)



### Purpose:

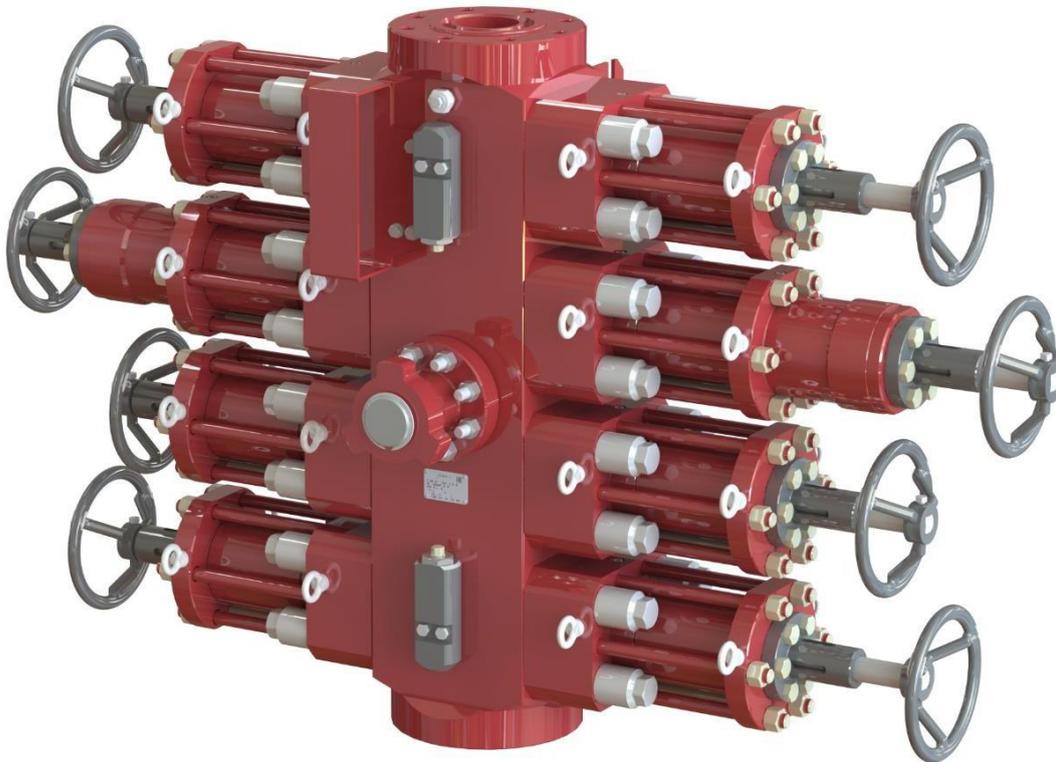
A coiled tubing ram preventer is used as part of wellhead equipment to seal the oil and gas well wellheads during workover, development and drilling using a continuous coiled steel pipe string or a coiled continuous steel-polymer pipe string, to prevent showings of oil, gas and water and blowouts in order to ensure safe work, conservation of resources and the environment protection.

### Specifications:

1. Nominal size, mm	130
2. Side outlet hole diameter, mm	52
3. Diameter of packed pipe, mm	31.8; 33.5; 38.1; 42; 44.5; 50.8; 60.3; 66.7; 73.
4. Operating pressure, MPa	105(70)
5. Ram actuator type	Hydraulic
6. Hydraulic actuator control pressure, MPa	15...21
7. Corrosion-resistant design as per GOST 13862-90	K2
8. Overall dimensions, mm	
- height	1400
- length	2010
- width	664
9. Weight, kg, max.	2200



## COILED TUBING RAM PREVENTER PPK-100x105-K2



### Purpose:

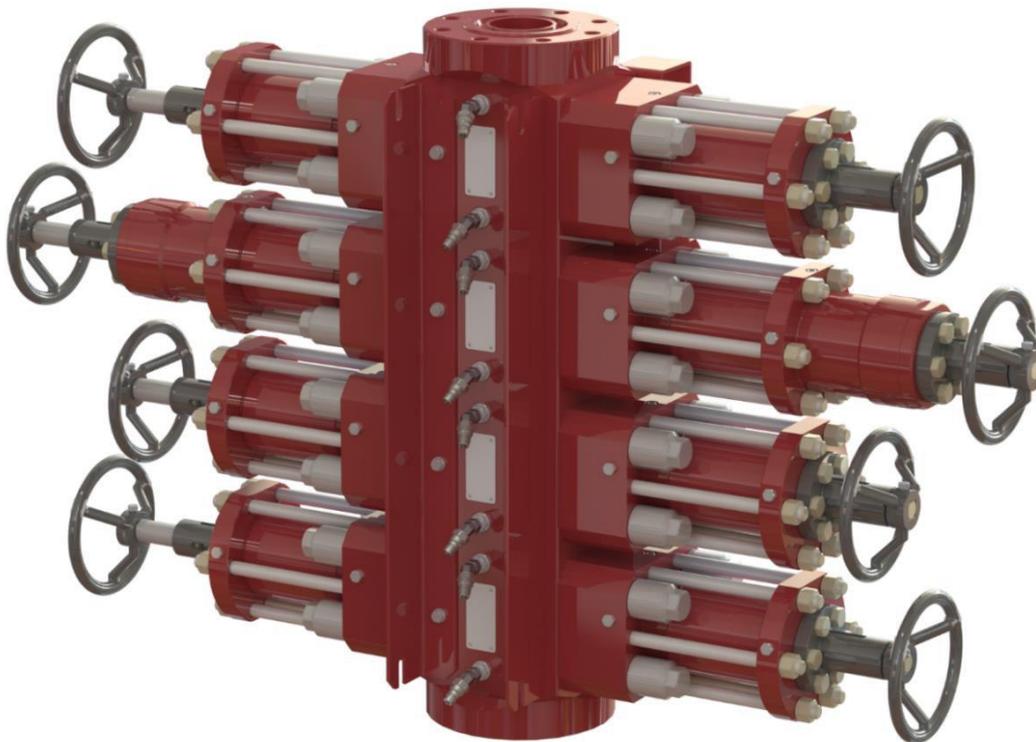
A coiled tubing ram preventer is used as part of wellhead equipment to seal the oil and gas well wellheads during workover, development and drilling using a continuous coiled steel pipe string or a coiled continuous steel-polymer pipe string, to prevent showings of oil, gas and water and blowouts in order to ensure safe work, conservation of resources and the environment protection. **For operation in the Extreme North at subzero temperatures, the BOP can be equipped with a BOP heating casing and a BOP heating module.**

### Specifications:

1. Nominal size, mm	100
2. Side outlet hole diameter, mm	52
3. Diameter of packed pipe, mm	31.8; 33.5; 38.1; 42; 44.5; 50.8; 60.3
4. Operating pressure, MPa	105
5. Ram actuator type	Hydraulic
6. Hydraulic actuator control pressure, MPa	15...21
7. Corrosion-resistant design as per GOST 13862-90	K2
8. Overall dimensions, mm	
- height	1190
- length	1980
- width	550
9. Weight, kg, max.	1600



## COILED TUBING RAM PREVENTER PPK-100x70-K2



### Purpose:

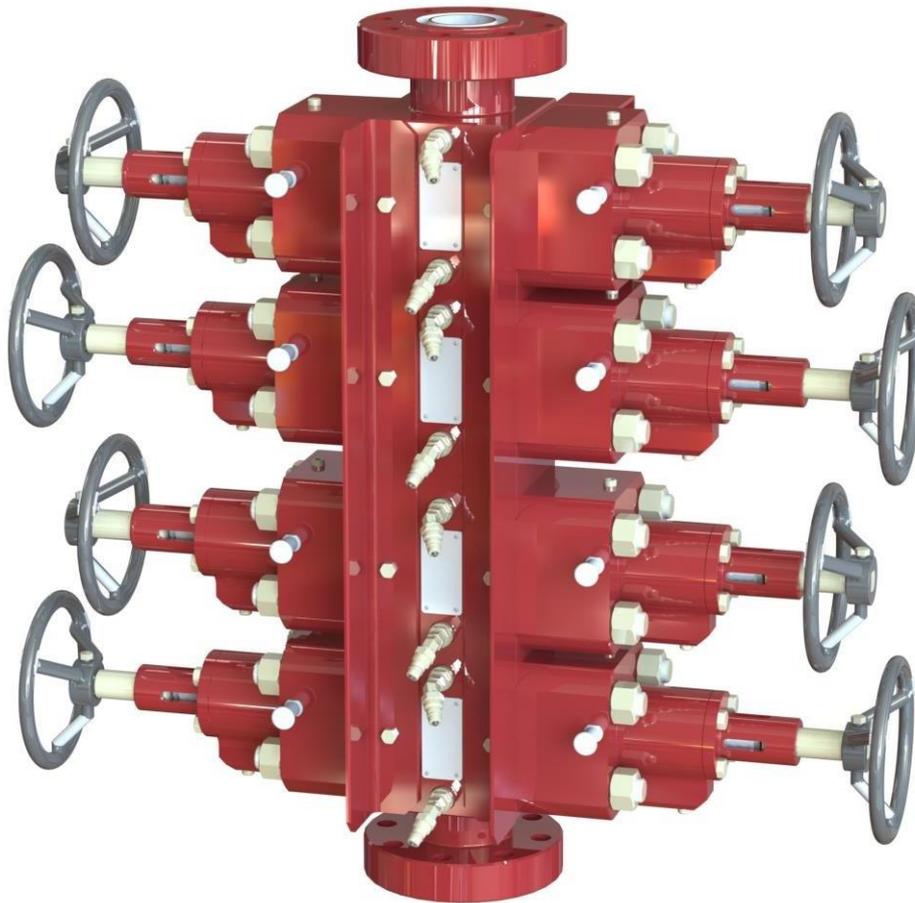
A coiled tubing ram preventer is used as part of wellhead equipment to seal the oil and gas well wellheads during workover, development and drilling using a continuous coiled steel pipe string or a coiled continuous steel-polymer pipe string, to prevent showings of oil, gas and water and blowouts in order to ensure safe work, conservation of resources and the environment protection. **For operation in the Extreme North at subzero temperatures, the BOP can be equipped with a BOP heating casing and a BOP heating module.**

### Specifications:

1. Nominal size, mm	100
2. Side outlet hole diameter, mm	52
3. Diameter of packed pipe, mm	31.8; 33.5; 38.1; 42; 44.5; 50.8; 60.3
4. Operating pressure, MPa	70
5. Ram actuator type	Hydraulic
6. Hydraulic actuator control pressure, MPa	15...21
7. Corrosion-resistant design as per GOST 13862-90	K2
8. Overall dimensions, mm	
- height	1170
- length	1980
- width	550
9. Weight, kg, max.	1550



## COILED TUBING RAM PREVENTER PPK-80x70-K2



### Purpose:

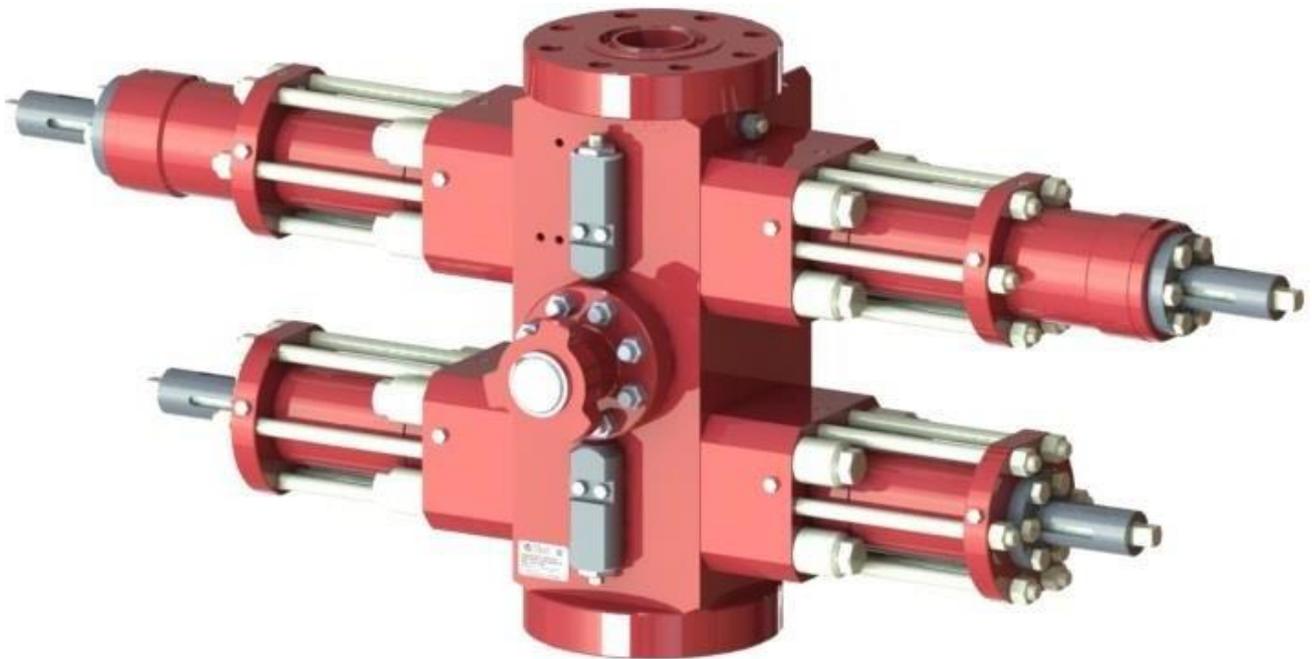
A coiled tubing ram preventer is used as part of wellhead equipment to seal the oil and gas well wellheads during workover, development and drilling using a continuous coiled steel pipe string or a coiled continuous steel-polymer pipe string, to prevent showings of oil, gas and water and blowouts in order to ensure safe work, conservation of resources and the environment protection.

### Specifications:

1. Nominal size, mm	80
2. Side outlet hole diameter, mm	52
3. Diameter of packed pipe, mm	31.8; 33.5; 38.1; 42; 44.5; 50.8
4. Operating pressure, MPa	70
5. Ram actuator type	Hydraulic
6. Hydraulic actuator control pressure, MPa	15...21
7. Overall dimensions, mm	
- height	1170
- length	1180
- width	510
8. Weight, kg, max.	821



## COILED TUBING RAM PREVENTER with universal rams PPK2-100x105-K2



### Purpose:

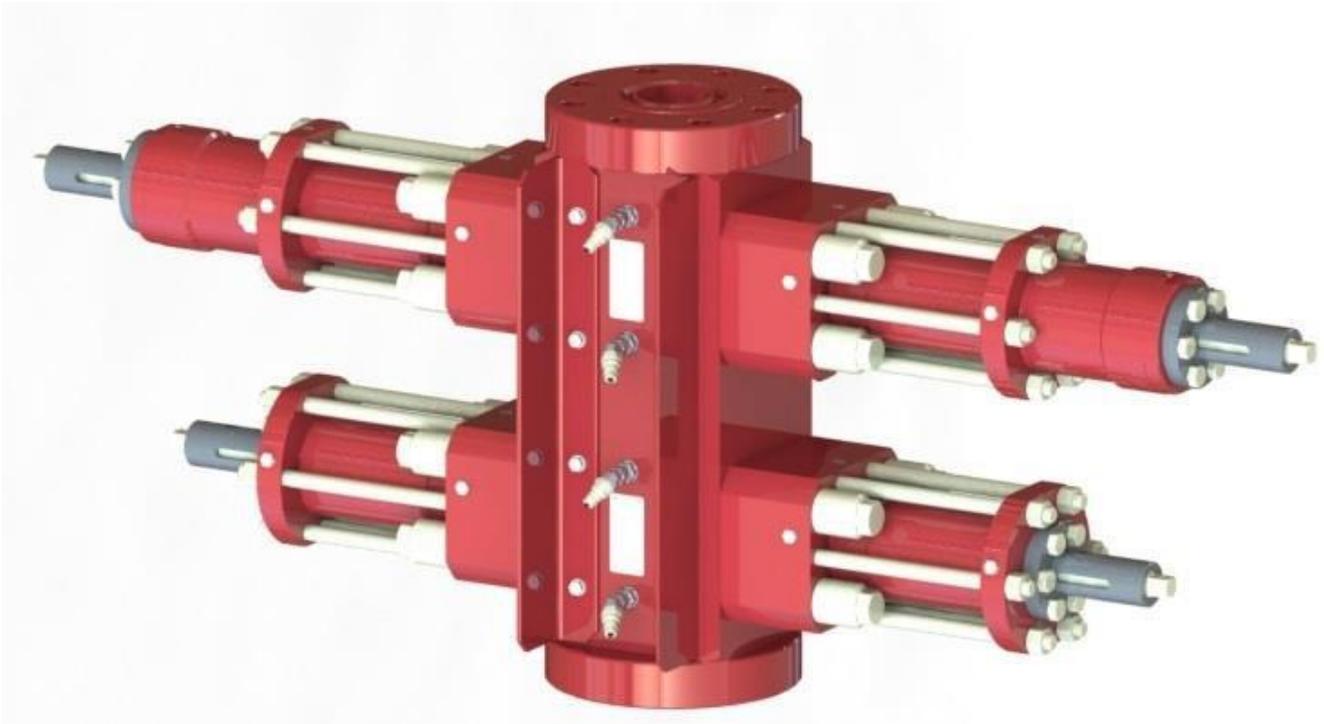
A coiled tubing ram preventer is used as part of wellhead equipment to seal the oil and gas well wellheads during workover, development and drilling using a continuous coiled steel pipe string or a coiled continuous steel-polymer pipe string, to prevent showings of oil, gas and water and blowouts in order to ensure safe work, conservation of resources and the environment protection.

### Specifications:

1. Nominal size, mm	100
2. Side outlet hole diameter, mm	52
3. Diameter of packed pipe, mm	25.4; 31.8; 33.5; 38.1; 42; 44.5; 50.8; 60.3
4. Operating pressure, MPa	105
5. Ram actuator type	Hydraulic
6. Hydraulic actuator control pressure, MPa	15...21
7. Corrosion-resistant design as per GOST 13862-90	K2
8. Overall dimensions, mm	
- height	870
- length	2270
- width	565
9. Weight, kg, max.	1028



## COILED TUBING RAM PREVENTER with universal rams PPK2-100x70-K2



### Purpose:

A coiled tubing ram preventer is used as part of wellhead equipment to seal the oil and gas well wellheads during workover, development and drilling using a continuous coiled steel pipe string or a coiled continuous steel-polymer pipe string, to prevent showings of oil, gas and water and blowouts in order to ensure safe work, conservation of resources and the environment protection.

### Specifications:

1. Nominal size, mm	100
2. Side outlet hole diameter, mm	52
3. Diameter of packed pipe, mm	25.4; 31.8; 33.5; 38.1; 42; 44.5; 50.8; 60.3
4. Operating pressure, MPa	70
5. Ram actuator type	Hydraulic
6. Hydraulic actuator control pressure, MPa	15...21
7. Corrosion-resistant design as per GOST 13862-90	K2
8. Overall dimensions, mm	
- height	850
- length	2270
- width	565
9. Weight, kg, max.	1015



## COILED TUBING RAM PREVENTER with universal rams PPK2-80x70-K2



### Purpose:

A coiled tubing ram preventer is used as part of wellhead equipment to seal the oil and gas well wellheads during workover, development and drilling using a continuous coiled steel pipe string or a coiled continuous steel-polymer pipe string, to prevent showings of oil, gas and water and blowouts in order to ensure safe work, conservation of resources and the environment protection.

### Specifications:

1. Nominal size, mm	80
2. Diameter of packed pipe, mm	31.8; 33.5; 38.1; 42; 44.5; 50.8
3. Operating pressure, MPa	70
4. Ram actuator type	Hydraulic
5. Hydraulic actuator control pressure, MPa	15...21
6. Overall dimensions, mm	
- height	760
- length	1240
- width	510
7. Weight, kg, max.	700



## STRIPPER GDBT-100x105-K2 (GDBT-100x70-K2)



### Purpose:

GDBT is designed to be used as part of a unit with a coiled tubing or with a polymer reinforced pipe, as well as coiled tubing units when developing and repairing oil, gas and gas condensate wells. **When approved by the customer, the stripper can be supplied with a base plate for installation of the injector.**

### Specifications:

1. Nominal size, mm	100
2. Pipe pressurizing operating pressure, Pop., MPa	105
3. Outside diameter of pressurized pipes, mm	33.5±1; 38.1±1; 44.45±1; 42±1; 50.8±1
4. Operating pressure in the hydraulic system, MPa	from 10 to 15
5. Maximum allowable pressure in the hydraulic system, Rhmax, MPa	Up to 21
6. Connecting sizes	
Bottom	Flange 100x105 as per GOST 28919-91
Top (attachment to the injector)	8 holes M27x3 along the circumference of Ø291
7. Overall dimensions	
Height, mm	1001
Diameter, mm	385
8. Corrosion-resistant design as per GOST 13862-90	K2
9. Weight, maximum, kg	323



## STRIPPER GDBT-80x70-K2



### Purpose:

GDBT is designed to be used as part of a unit with a coiled tubing or with a polymer reinforced pipe, as well as coiled tubing units when developing and repairing oil, gas and gas condensate wells. **When approved by the customer, the stripper can be supplied with a base plate for installation of the injector.**

### Specifications:

1. Nominal size, mm	80
2. Pipe pressurizing operating pressure, Pop., MPa	70
3. Outside diameter of pressurized pipes, mm	33.5±1; 38.1±1; 44.45±1; 42±1; 50.8±1
4. Operating pressure in the hydraulic system, MPa	from 10 to 15
5. Maximum allowable pressure in the hydraulic system, Rhmax, MPa	Up to 21
6. Connecting sizes	
Bottom	Flange 80x70 as per GOST 28919-91
Top (attachment to the injector)	8 holes M27x3 along the circumference of Ø291
7. Overall dimensions	
Height, mm	1001
Diameter, mm	385
8. Corrosion-resistant design as per GOST 13862-90	K2
9. Weight, maximum, kg	350

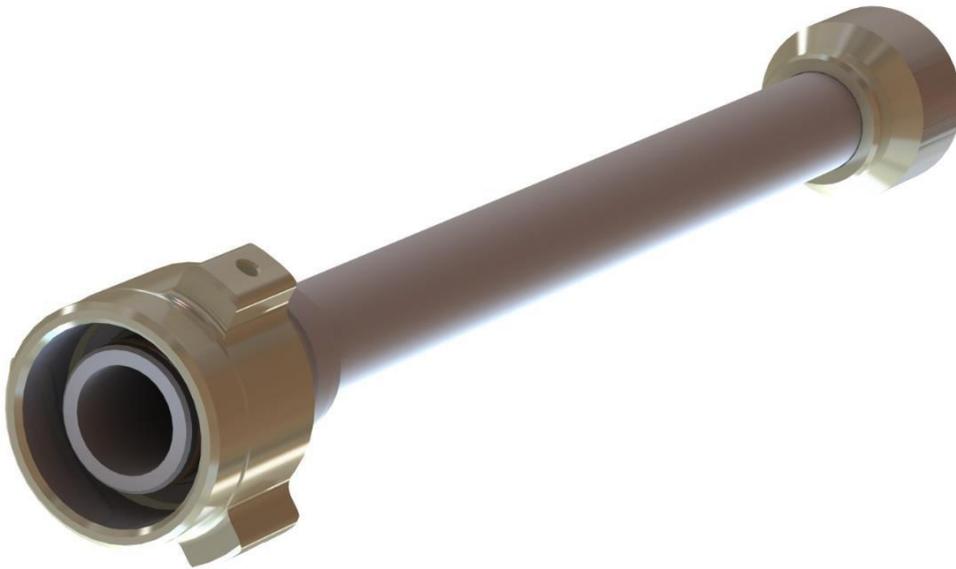


## LUBRICATOR

**LT-80x70-K2, LT-100x70-K2, LT-100x105-K2, LT-130x105-K2**

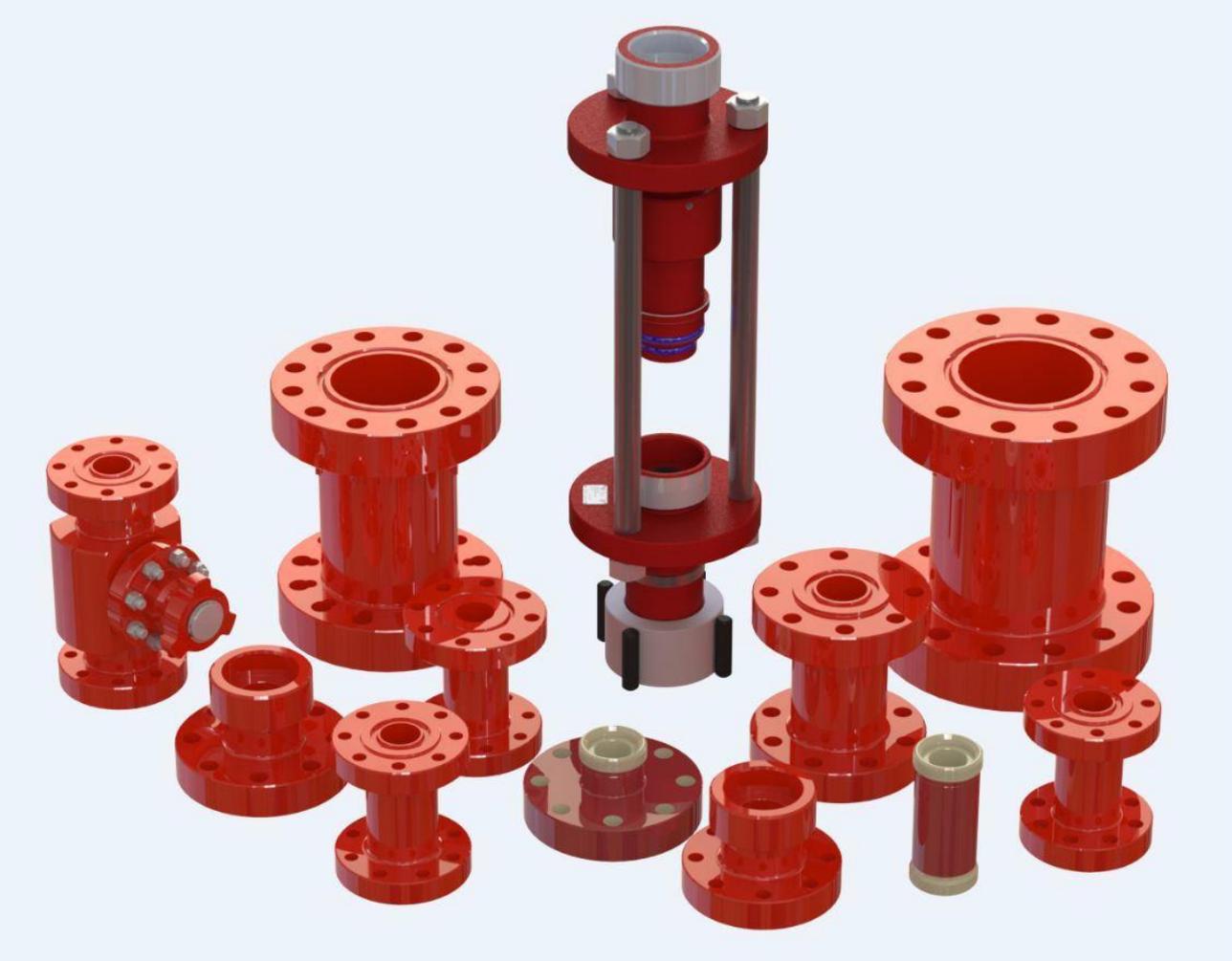
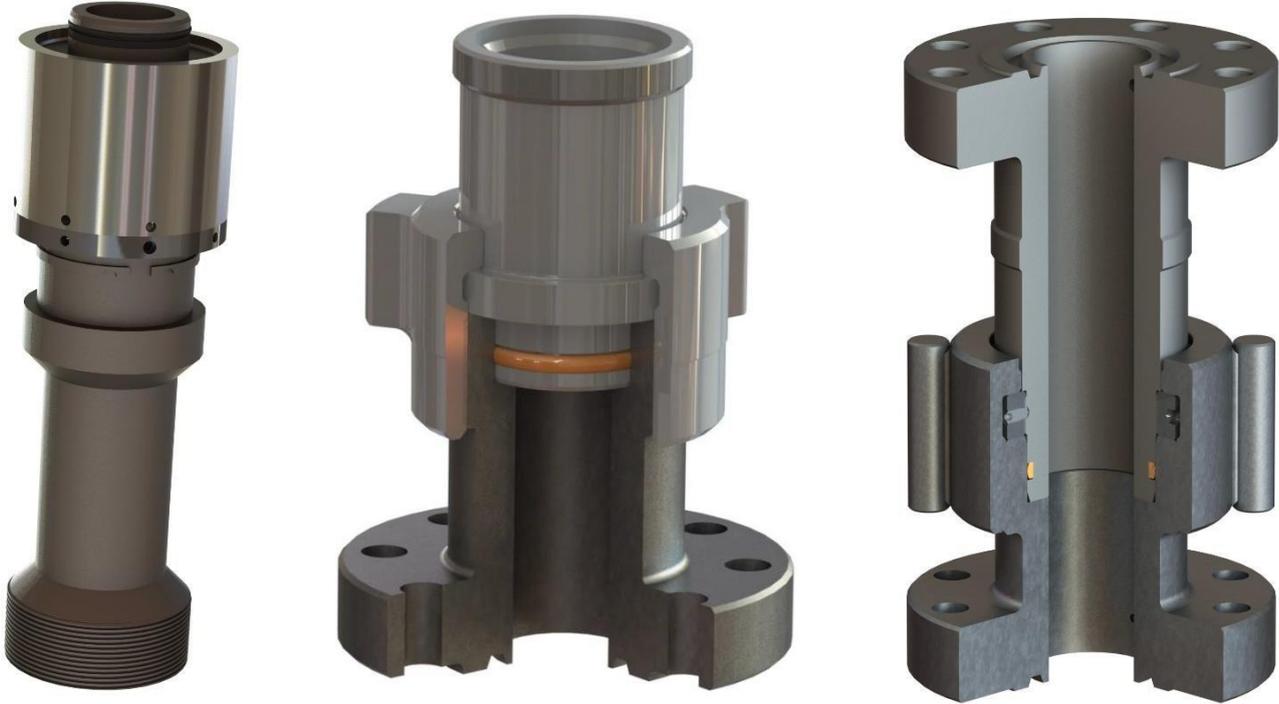
Lubricator is used for tool running into a well or for fishing operations. It is installed between the BOP and the stripper and serves as a buffer pressure zone during well control.

Available in various sizes, one-piece, assembled, flanged connections, quick union line.





Various quick couplings, drill spool adaptors, cross connections, tees.





**When approved by the customer, the equipment is completed with a transport frame, deboosters, lifting and testing accessories, high-pressure hose, a set of spare parts.**



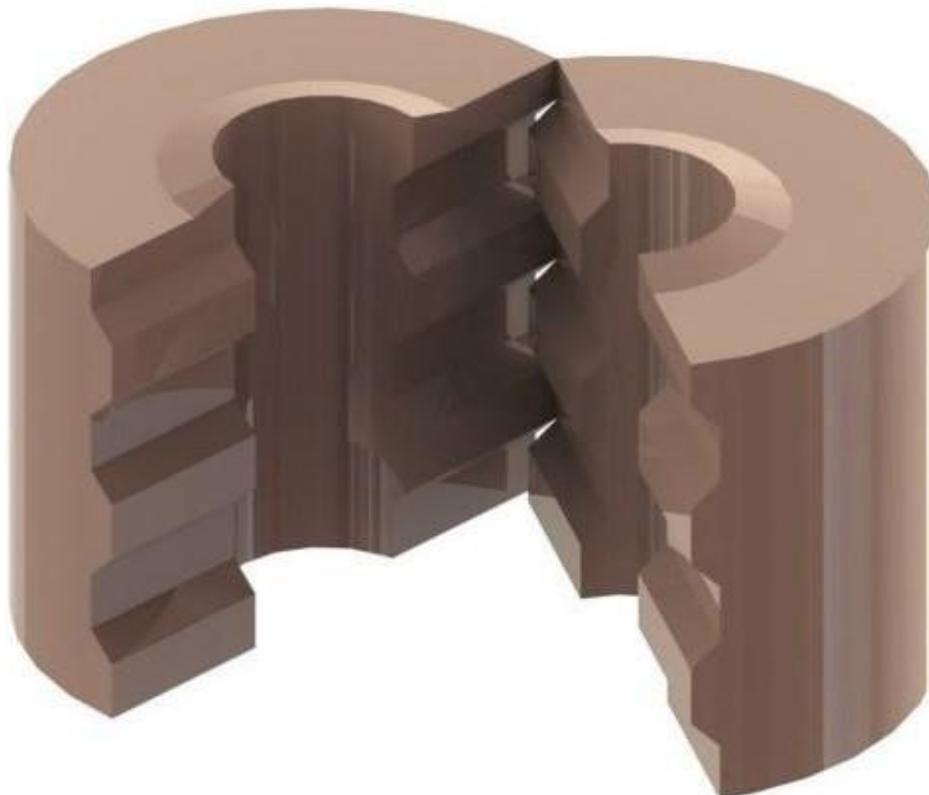
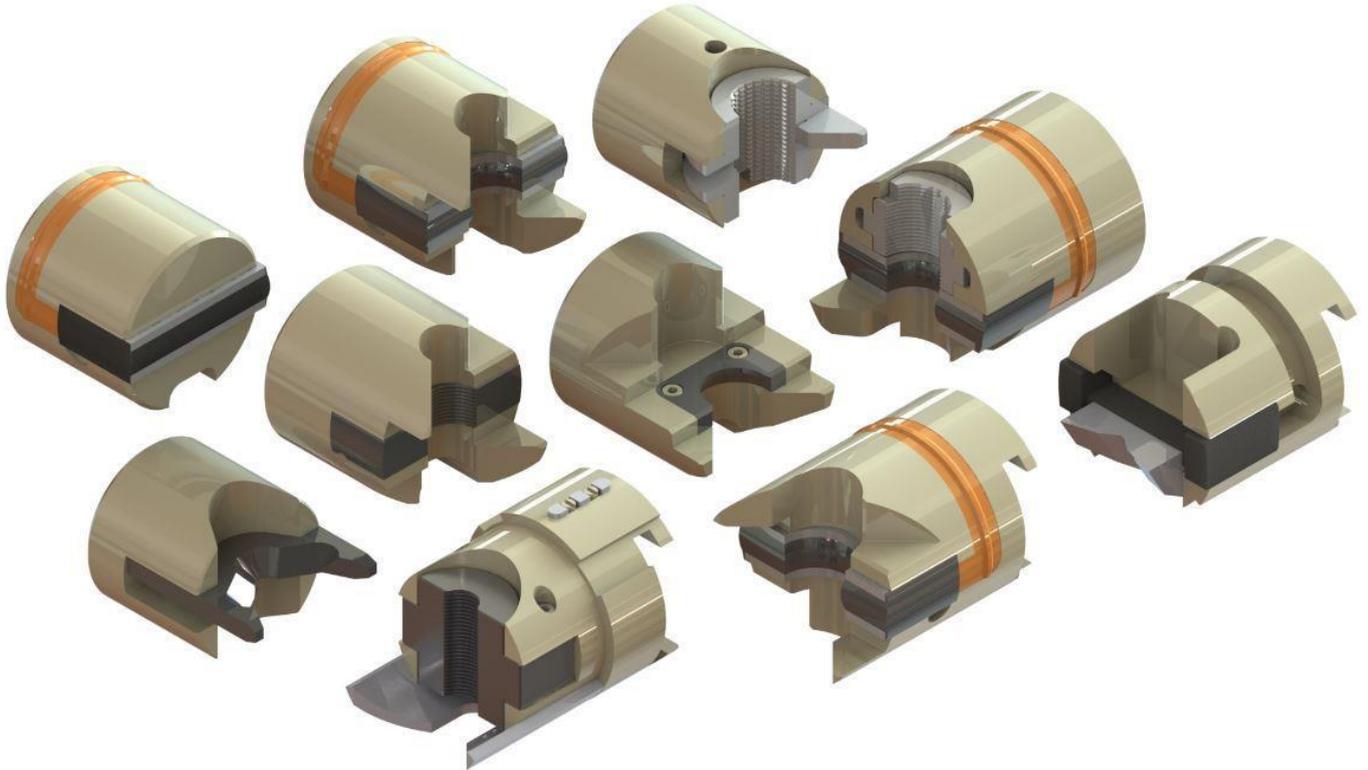


**Chains and spare parts for injectors from various manufacturers**



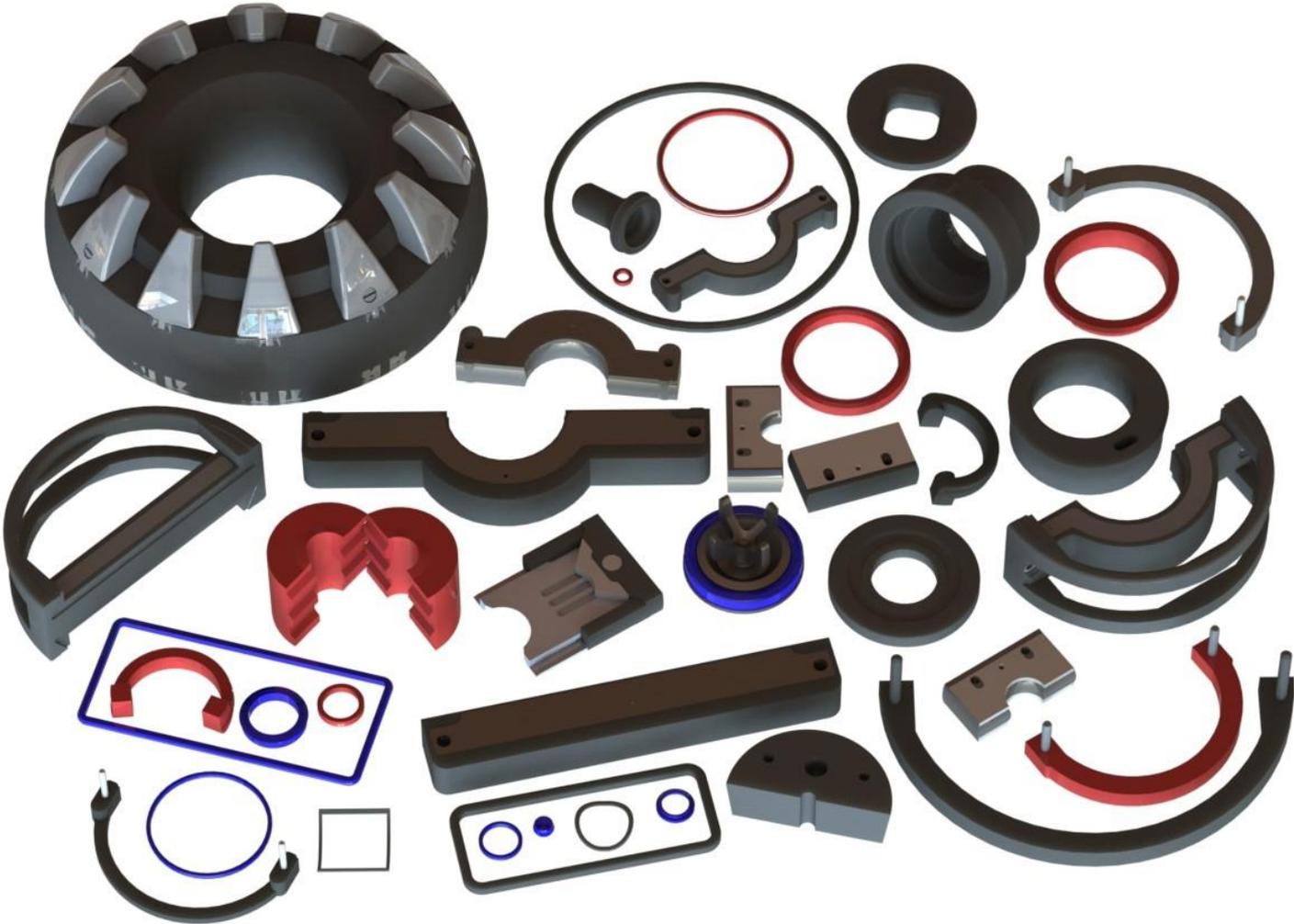


**Spare parts for a foreign-made blowout preventer, blowout rams and packing, seals for stripper packing of various standard sizes.**





**We make various packing according to the customer's drawings, or according to the provided sample.**





Coiled tubing preventers PPK-100x105K2, PPK-100x70K2 have utility model patent No. 202389 dated 23.06.2020.  
TERMINALSTROYINVEST products are Intellectual Property and are protected by the laws of the Russian Federation.

## RUSSIAN FEDERATION



UTILITY MODEL

# PATENT

No. 202389

## SHEAR RAM HYDRAULIC BLOWOUT PREVENTER

Patent holder: *TerminalStroyInvest Limited Liability Company (RU)*

Authors: *Nikolaev Ivan Sergeevich (RU), Metlyakov Ivan Vladimirovich (RU), Kobelev Dmitry Valentinovich (RU)*

Application No. 2020120863

Utility model priority dated **June 23, 2020**

Date of state registration in the State Register of Utility Models of the Russian Federation **February 16, 2021**

Expiration date of the utility model exclusive right **June 23, 2030**

*Head of the Federal Service  
for Intellectual Property*

*G.P. Ivliev*

