

***Pulling rig UPA-60X-01 for oil- and gas-well development and repair***

**Pulling rig UPA-60X-01** for oil and gas-well development and repair is designed for round-trip operations during repair and development of oil and gas-well with depth to 4000m. Rig units are mounted at chassis KrAZ-65053.

Conditional well depth for repair and development is 4000 meter (tubing strings of 14 kg/m).

Conditional well drilling depth is 2000 meter (at drilling with drilling string of 24 kg/m).

The rig is in accordance with Safety regulations in oil and gas industry.

***It conducts the following operations:***

- tubing strings and drill pipes lowering and lifting;
- repair and accident elimination works;
- cement-plug drilling in pipes of 146-168 mm (5-6") in diameter;
- wellhead equipment mounting and dismantling.

***Rig UPA-60X-01 is self-propelled unit mounted at a special chassis and consists of the following basic units:***

- hoist winch;
- tower with mechanization and transmission system

***Design Features:***

- extended tower height enabling to work with 16 m stalk;
- advanced winch brake system ;
- usage of auxiliary hydraulic-driven winch
- usage of hydraulic jack to extend tower upper section;

***Main technical characteristics***

<b>Carrying capacity, kN (ton-force), nominal</b>	600 (60)
<b>Mounting- and -transport base</b>	chassis KrAZ 65053
<b>Drive of mechanisms</b>	engine of chassis YaMZ-238 DE3 (YaMZ-238 D) with power of 243 kW (330 hp)
<b>Range of speeds of raising of traveling block m/c</b>	0.16-1.41
<b>Tackle system:</b>	
• Stringing	3x4 (six-string)
• String diameter in accordance with standard GOST 16853-71	25
• Lifting speed, m/s:	
– minimum	0.2
– maximum	1.54
• Speed number	4

**Hoist:**• Type

single-drum with chain drive, friction clutch's to engage drum

**Tower:**

• Type

double-sectional, telescopic

• tower height (from the ground level to crownblock axis), m

22±4

• lifting stalk length, m  
crown block

16

biaxial

**Rotor ПГ-60**

carrying capacity, kN (ton force)

hydraulic-driven

torque ,N·m, (kg force·m)

600 (60)

diameter OCTG-Pipes – Tubing

9000 (900)

and drilling tubes ,mm

60,73,89

bore of the table, mm

142

**Pulling rig overall dimensions in over-the-road**

• length

15930

• width

3100

•• height

4200

**Weight of pulling rig in over-the-road position, kg, no more than**

29768



***The list of the equipment to 1 set UPA – 60X -01 (in base complete set)***

<b>№ п/п</b>	<b>Name of product</b>	<b>Unit of measur ement</b>	<b>quantity</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1.	Pulling rig UPA -60X-01 chassis KrAZ-65053	set	1
<b>Main (base set) a one rig VIIA-60X-01 includes the following:</b>			
1.1	Tower is double-sectional, telescopic with limiter lifting the upper section	pcs	1
1.2	Hoist, carrying capacity 60t	pcs	1
1.3	Auxiliary hoist hydraulic, carrying capacity 2t	pcs	1
1.4	The hydraulic system with two pumps 112 cm <sup>3</sup>	set	1
1.5	Pneumatic system	set	1
1.6	The system of main and emergency lighting device 24V to recharge the batteries and electrical equipment in explosion-proof version	set	1
1.7	Hydraulic breaker	set	1
1.8	Remote control raising and lowering the tower	pcs	1
1.9	Hydraulic jack (outrigger) front	pcs	2
1.10	Hydraulic jack (outrigger), the average	pcs	2
1.11	Hydraulic jack (outrigger) rear	pcs	2
1.12	Fundamental beam under reference jacks	pcs	4
1.13	System exhaust engine	set	1
1.14	The control system of horizontality	set	1
1.15	Audible alarm nomination top section of the tower and landing on the go	set	1
1.16	Control panel	pcs	1
1.17	Set braces	pcs	1
1.19	Shelters, fences, ladders, platforms, boots	set	1
1.20	Set bench tools, replacement and spare parts	set	1
1.21	SPTA set car, tools and accessories (hoses, dies, brake bands, brake pads, friction pads, etc.)	set	1
1.22	Spare wheel chassis	pcs	1

***For additional payment into set of rig following parts may be supplied:***

<b>1</b>	Hydraulic drive tongs КПП-12 with the suspension system to tower, stopper, set of grabs 2 <sup>II</sup> , 2 <sup>1/2</sup> <sup>II</sup> , 3 <sup>II</sup> , 3 <sup>1/2</sup> <sup>II</sup> , 4 <sup>II</sup> and spare dies.
<b>2</b>	Spider-air-actuated carrying capacity 60t with wedge suspension 2 <sup>II</sup> , 2 <sup>1/2</sup> <sup>II</sup> , 3 <sup>II</sup> , 3 <sup>1/2</sup> <sup>II</sup> , 4 <sup>II</sup>
<b>3</b>	Washover pump НБ -125 on slid
<b>4</b>	Operating swivel, carrying capacity 50t
<b>5</b>	Drilling square 80x80x9000
<b>6</b>	Machine tongs and forks 2 <sup>II</sup> , 2 <sup>1/2</sup> <sup>II</sup> , 3 <sup>II</sup> -
<b>7</b>	Elevator
<b>8</b>	Mechanical rotor type P-410
<b>9</b>	Labor market (with drilling base for mechanical rotor, foster boardwalk, racks with chock)
<b>10</b>	Electronic dynamometer ДЭЛ-140
<b>11</b>	Drilling hose length 18m with suspension system
<b>12</b>	Derrickman platform