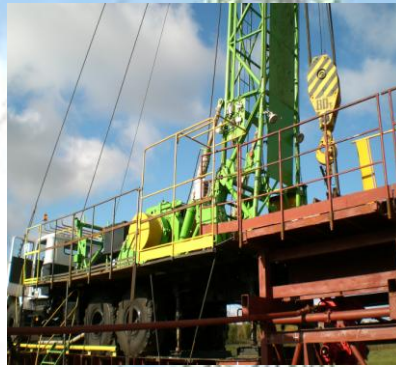


Pulling rig УПА-80ПХ



Pulling rig УПА-80ПХ for oil- and gas-well development and repair
Pulling rig УПА-80-ПХ 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 4200m

Rig units are mounted at chassis KrAZ-63221-03.

Conditional well depth for repair and development is 4200 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 of Ukraine.

It conducts the following operations:

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

Rig УПА-80ПХ is mobile unit mounted at a special chassis and consists of the following basic units:

- winch-derrick unit;
- hydraulic system
- hydraulic rotor;
- crown block;
- hook block
- transport base (chassis).

Design Features:

- separate hydraulic system
- 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

Carrying capacity, kN (ton-force), nominal	800 (80)
Mounting- and -transport base	chassis KrAZ 63221-026-03
Drive of mechanisms	двигатель шасси ЯМЗ- мощностью 243 кв (330 л.с) при 2100 об/мин engine of chassis YaMZ-238 DE2 with power of 243 kW (330 hp)
Range of speeds of raising of traveling block m/c	0.2-1.55
Tackle system:	

<ul style="list-style-type: none"> • Stringing • String diameter in accordance with standard GOST 16853-71 • Lifting speed, m/s: <ul style="list-style-type: none"> – minimum – maximum • Speed number 	3x4 (six string) 25 0.2 1.55 4
Hoist:• Type	single-drum with chain drive, double-band brake and friction clutch drum of the winch and hook-block limiter
Tower: • Type • tower height (from the ground level to crownblock axis), m • • lifting stalk length, m • crown block • hook block	double-sectional, telescopic 22±0,4 16 triaxial, quadruple- pulley uniaxial, triple-pulley
Rotor PG-80 carrying capacity, kN (ton force) torque ,N·m, (kg force·m) diameter OCTG-Pipes – Tubing and drilling tubes ,mm bore of the table, mm	hydraulic-driven 800 (80) 9000 (900) 60,73,89,102,114 142
Pulling rig overall dimensions in over-the-road position, mm, no more than: • length • width • height	13 830 2 750 4 460
Weight of pulling rig in over-the-road position, kg, no more than	31000

The list of the equipment to 1 set YIIA-80IIX (in base complete set)

№ п/п	Name of product	Unit of measurement	quantity
1	2	3	4
1.	Pulling rig YIIA-80IIX on chassis KrAZ-63221-03	set	1
Main (base set) a one rig YIIA-80IIX includes the following:			
1.1	Tower is double-sectional, telescopic with limiter lifting the upper section	pcs	1
1.2	Hoist, carrying capacity 80t	pcs	1
1.3	Auxiliary hoist hydraulic, carrying capacity 2t	pcs	1
1.4	The hydraulic system with two pumps 112 cm ³	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	set	1

	version		
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
1.18	Hydraulic rotor	pcs	1
1.19	Drive the mechanical rotor	pcs	1
1.20	Shelters, fences, ladders, platforms, boots	set	1
1.21	Set bench tools, replacement and spare parts	set	1
1.22	SPTA set car, tools and accessories (hoses, dies, brake bands, brake pads, friction pads, etc.)	set	1
1.23	Spare wheel chassis	pcs	1

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

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