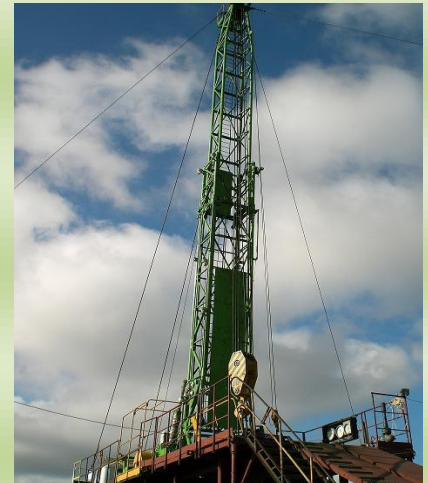


Kharkov Plant of Transport Machinery

3, Dostoevskogo Str., Kharkov, 61102, Ukraine,
tel/fax(0572) 52-41-17, : tel.:(0572) 51-40-72

e-mail: hzto@yandex.ru
www.hzto.com.ua



Pulling rig VIIA-60/80 for oil- and gas-well development and repair

Pulling rig VIIA-60/80 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 VIIA-60/80 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	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:– 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: <ul style="list-style-type: none"> • Type • tower height (from the ground level to crownblock axis), m • lifting stalk length, m длина свечи поднимаемой колонны труб, м • crown block • hook block 	double-sectional, telescopic 22±0,4 16 triaxial, quadruple- pulley uniaxial, triple-pulley
Rotor ПГ-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: <ul style="list-style-type: none"> • 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 УПА - 60/80 (in base complete set)

№ п/п	Name of product	Unit of measur ement	quantity
1	2	3	4
1.	Pulling rig УПА - 60/80 chassis KrAZ-63221-03	set	1
Main (base set) a one rig УПА-60/80ПХ 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	Пневмосистема 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	Гидрораскрепитель 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 КПП-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