



«PACIFIC ENGINEERING COMPANY»

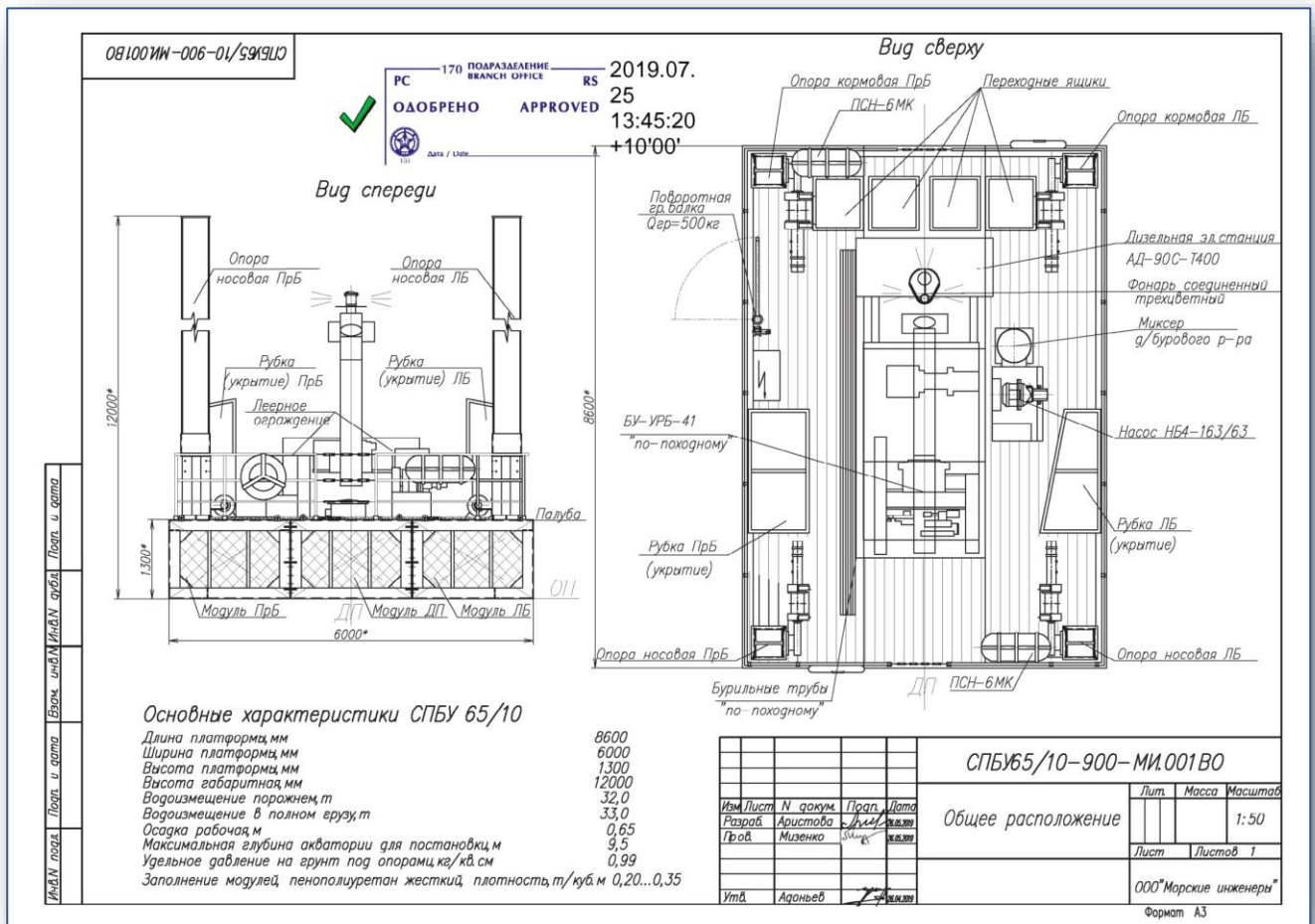
426 Mira Ave., office 210, Yuzhno-Sakhalinsk, RF, 693004

Tel: (4242) 46-36-22, Fax (4242) 46-69-69, E-mail: peco@sakhalin.ru, Web-site: www.pecoltd.pro

Jack-Up drilling rig «Neogen»



Technical specification



The jack-up drilling rig is designed for drilling of engineering-geological boreholes and performance of geotechnical investigations in the boreholes to the depth of 100 m within the nearshore zones of the seas, bays, lakes, rivers, harbor waters, boot basins and gulfs at the water depth to 10 meters.

The unit allows performing of cone penetration testing (CPT), seismic cone penetration testing (SCPT) and standard penetration testing (SPT). Operations within the water areas can be executed using a support vessel (if a lifting device with the capacity of not less than 25 t is available on the support vessel) and directly from the shore using a hoisting crane with the required capacity.



Register Data	
Vessel name	JU “Neogen”
Shipowner	Pacific Engineering Company Ltd.
Year of manufacture	2019
Specifications	
Type of the casing	Modular, collapsible
Consumptive draught	65 m ³
Min draught	0.65 m
Max draught	0.8 m
Method of stabilization on soil	4 support legs with pads
Type of the legs lifting device	Quadruplex pairs with the gear motor drive
Length, width, height	8600 x 6000 x 12000 cm
Support legs specific pressure	3.3 kg/cm ²
Cruising area	Nearshore zone of the seas, gulfs, bays, ports, boat basins and lakes.
Operation conditions	Water depth up to 10 m, sea disturbance up to 0.5 m, wind speed up to 8 m/sec.
Navigation equipment	GNSS receiver Hemisphere Vector VS330

	Lead line x 1, GPS receiver x 1, binocular x 1 Software: SurvCE 4.05 5/13/15, C-Setup 7.1, PDL Conf 4.50, ADL Conf 4.06.0001
Radio and communication equipment	Portable VHF radio stations x 2, GLOBAL satellite phone x 1.
Life-saving equipment	Raft PSN-6 x 2 pcs., wet suits, life jackets for all the personnel, life rings, caproic ratlines 100 m, flare PNR x 3, flare ZPN x 3, hand lamp x 2, smoke post x 2.
Equipment and devices	Drilling rig URB-41, mud pump, mud mixer, power station DES-100, CPT unit with hydraulic station and control panel, power distribution panel, drilling rig package.
Towing device	Towline 22 mm, Tow rope 45 mm x 100 m.
Drilling and geotechnical equipment	
Drilling rig	URB-41
Drilling depth	100 m
Main drilling method	Rotary, core drilling with washing
Drilling rig drive	Electric motor, 75 kW
Power station	DES-100
Drilling rig weight	20 t.
Mud pump	NB-4
SPT equipment (in accordance with ASTM D 6066)	
Detachable sampler: Length Inner diameter Core diameter Angle at the sampler's end Cone base diameter	762 mm 38 mm 35 mm 23° 50.8 mm
Penetration rods: Outer diameter, mm Section length	42 mm not less than 1.0 m
Driving device: Hammer weight Hammer dropping height	63.5 kg 76 cm
Measurement accuracy	1 ± 0.1 cm
Navigation	
Positioning system	GNSS receiver Hemisphere Vector VS330
Software	SurvCE 4.05 5/13/15, C-Setup 7.1, PDL Conf 4.50, ADL Conf 4.06.0001



Drilling rig URB-41



Drilling rig control panel



Power swivel of Drilling Rig. Mud pump NB-4