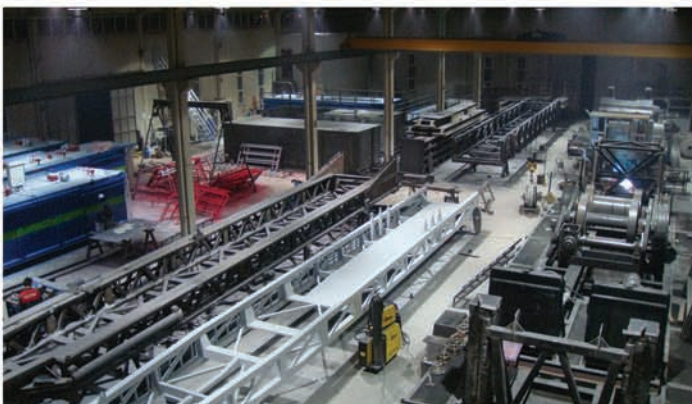


MOBILE RIGS

& EQUIPMENTS



PetroMak
Drilling Technologies



Company

Our company manufactures land rigs, mobile rigs and workover rigs and drilling equipments for oil, natural gas and geothermal drillings.

Our company aims to catch the highest quality in terms of design, engineering calculations for all products and maintain this success.

We use high quality material and elaborate in manufacture of our products.

Our production philosophy depends on easy mounting-demounting, effective performance and strength.

Mobile Rig Solutions

Standard rig features of Petromak Rigs;

Rigs are designed according to applicable local standards, in addition to the GOST-R, ISO 9001-2000, American Petroleum Institute (API) and American Institute of Steel Construction.

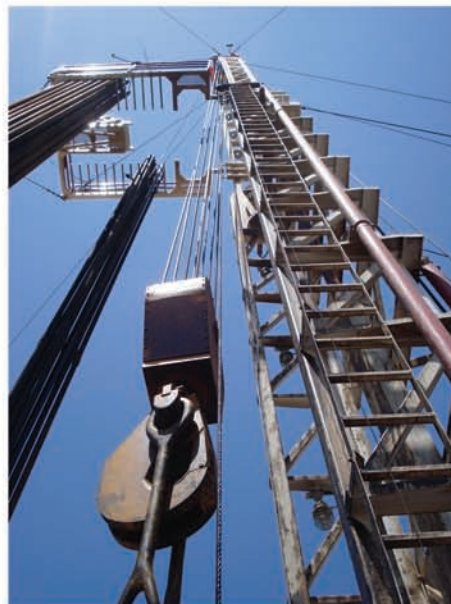
A precise assembly design and placement of all components are developed to increase efficiency of operator and reduce undesired distractions.

The most suitable rig design is developed for efficient and long time operation.

Driller control panels are placed to provide a clear view of working area.

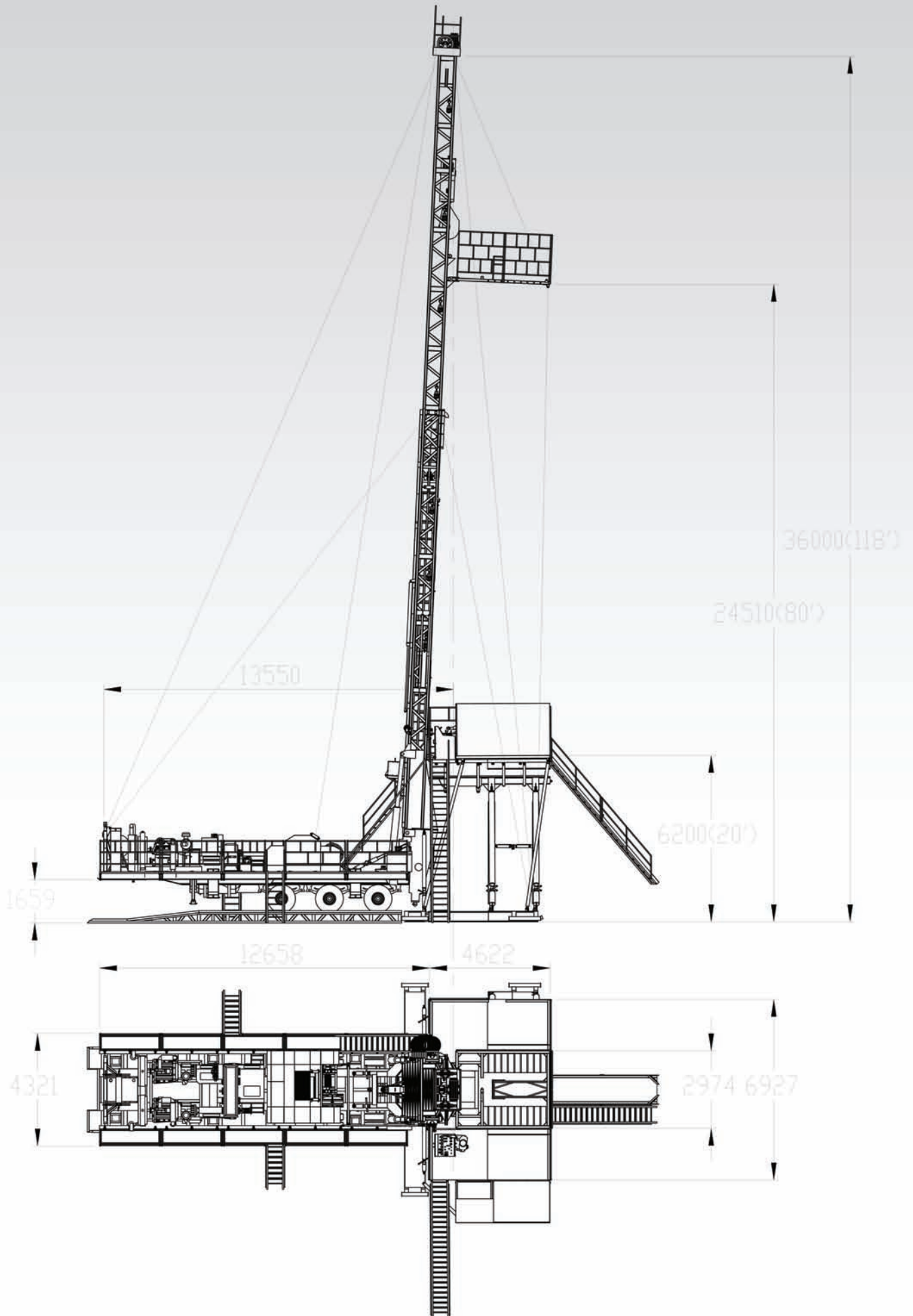
Workover Rigs Technical Data

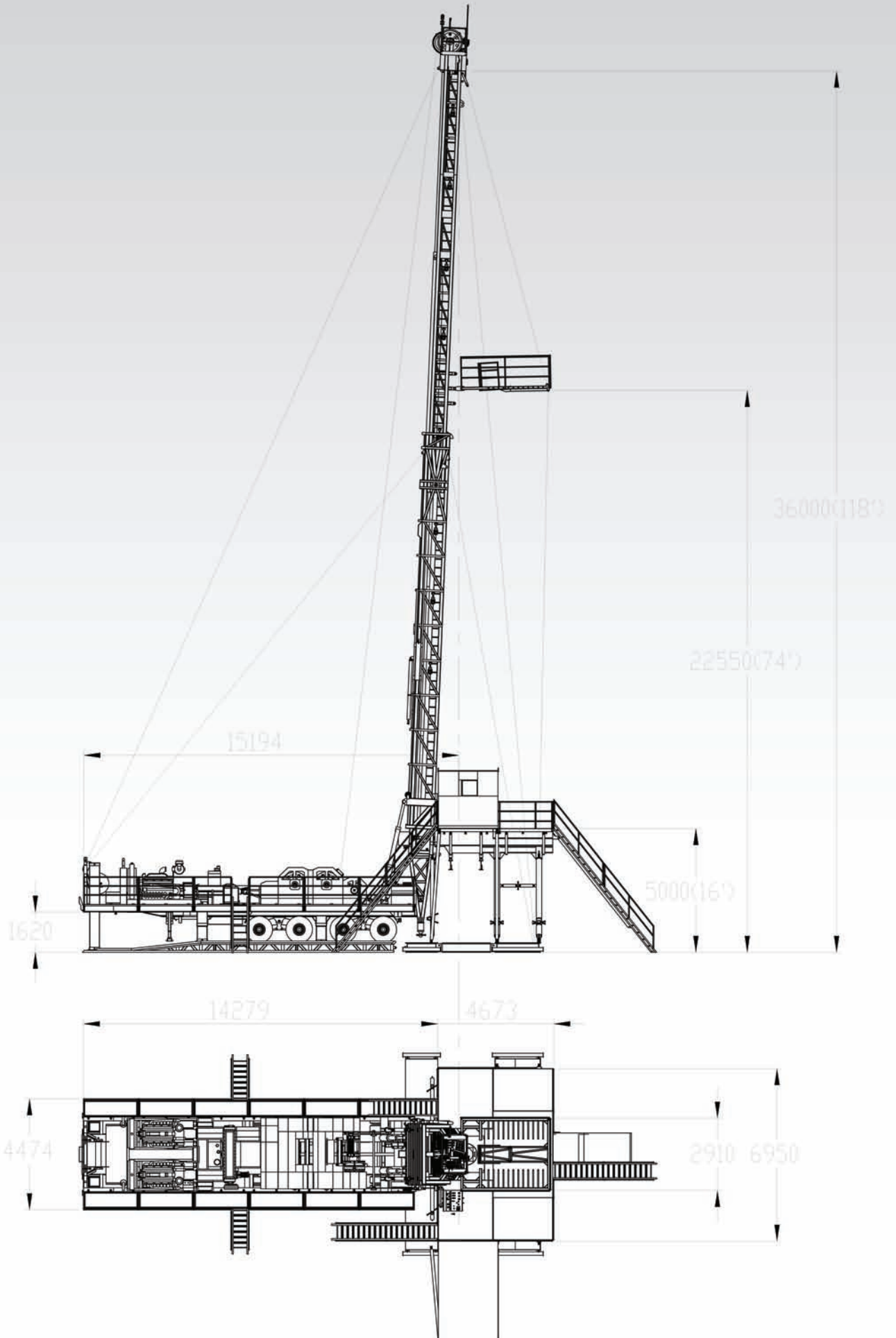
WORKOVER RIGS					
MODEL	PMW 60	PMW 90	PMW 110	PMW 125	PMW 135
Engine Type	CAT C-11 ACERT	CAT C-11 ACERT	CAT C-13 ACERT	CAT C-15 ACERT	CAT C-18 ACERT
Nominal Engine Power Hp (kW)	385 (287)	385 (287)	440 (328)	540 (403)	630 (470)
Transmission	Allison 4500 OFS	Allison 4500 OFS	Allison 4500 OFS	Allison 4700 OFS	Allison 4700 OFS
Optional Transmission	CAT TH35-E81	CAT TH35-E81	CAT TH35-E81	CAT TH35-E81	CAT CX31
Nominal Hoisting Capacity Metric Tons (lbs)	60 (132000)	90 (198000)	110 (242000)	125 (275000)	135 (297000)
Workover Depth (m) (2 7/8" Drill Pipe)	2100	3200	4500	5100	5800
Drilling Depth (m) (4 1/2" Drill Pipe)	650	1000	1500	1700	2500
Drawworks	PDW 60	PDW 90	PDW 110	PDW 125	PDW 135
Rope Diameter (mm)	26	26	26	26	26
Mast Height (m)	19	29	32	32	32
Drilling Floor Height (m)	3	5	5	5	5
Travelling System	4x3	5x4	5x4	5x4	5x4
Working Pressure (mpa)	0.65-0.8	0.65-0.8	0.65-0.8	0.65-0.8	0.65-0.8



DRILLING RIGS					
MODEL	PM 125	PM 135	PM 160	PM 180	PM 200
Engine Type	CAT C-15 ACERT	CAT C-18 ACERT	2 X C-13 ACERT	2 X C-15 ACERT	2 X C-18 ACERT
Nominal Engine Power Hp (kW)	540 (403)	630 (470)	2 x 440 (2 x 328)	2 x 540 (2 x 403)	2 x 630 (2 x 470)
Total Rig Power Hp (kW)	540 (403)	630 (470)	880 (656)	1080 (806)	1260 (940)
Transmission	Allison 4700 OFS	Allison 4700 OFS	2 x Allison 4700 OFS	2 x Allison 4700 OFS	2 x Allison 4700 OFS
Optional Transmission	CAT TH35-E81	CAT CX31	2 x CAT TH35-E81	2 x CAT TH35-E81	2 x CAT CX31
Nominal Hoisting Capacity Metric Tons (lbs)	125 (275000)	135 (297000)	160 (352000)	180 (396000)	200 (440000)
Workover Depth (m) (2 7/8" Drill Pipe)	5100	5800	6850	8000	8600
Drilling Depth (m) (4 1/2" Drill Pipe)	1700	2500	2900	3300	3700
Drawworks	PDW 125	PDW 135	PDW 160	PDW 180	PDW 200
Rope Diameter (mm)	26	26	32	32	32
Mast Height (m)	32	32	36	36	36
Drilling Floor Height (m)	5	5	5-6	5-6	5-6
Travelling System	5x4	5x4	5x4	5x4	5x4/6x5
Working Pressure (mpa)	0.65 - 0.8	0.65 - 0.8	0.65 - 0.8	0.65 - 0.8	0.65 - 0.8







Drawworks

Petromak Drawworks

Petromak Drawworks are designed reliably with engineering experience of Petromak. Power of Petromak Drawworks are ranged between 350-1200 Hp and their capacity of operation depth are ranged between 500-3500 meters. Input power is driven with diesel engines. Petromak Drawworks conform to API 7K specification.

Main Features:

The drum is grooved.

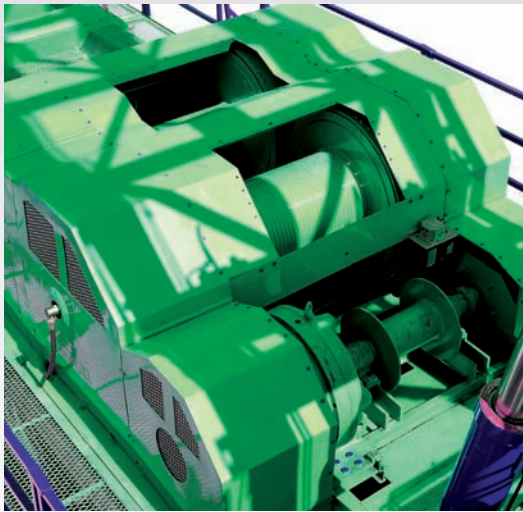
Main frame is manufactured from high resistance steel. All bearings are roller bearings, all shafts are made from alloy steel.

Sprockets are produced medium frequency induction hardened.

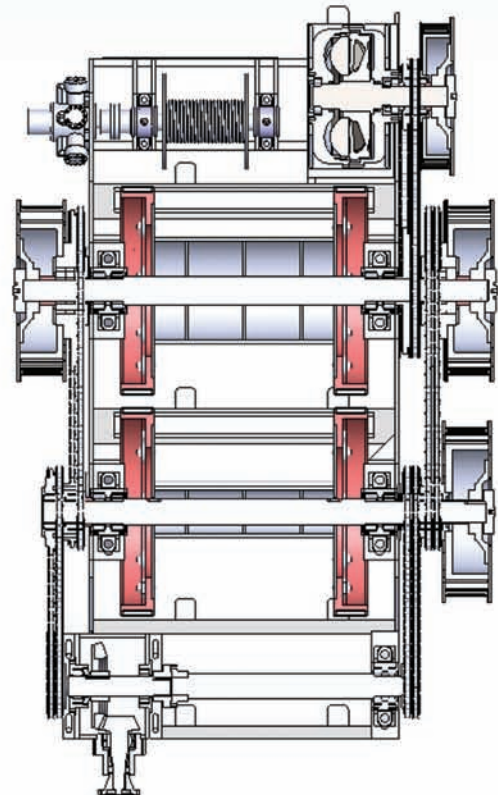
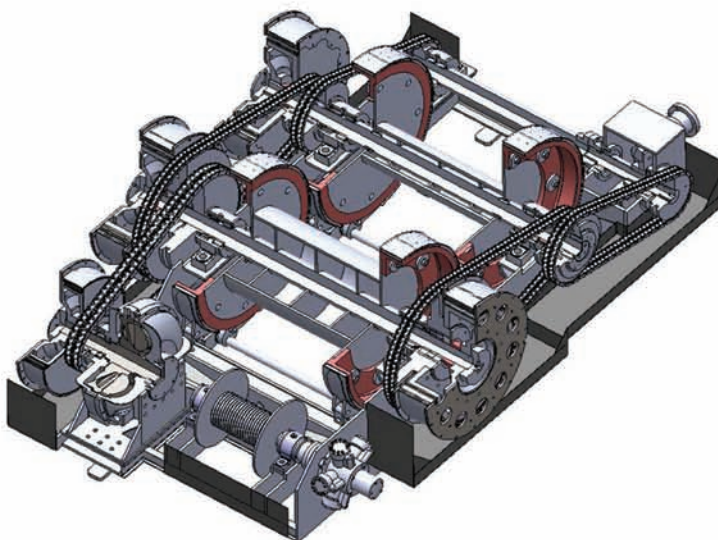
All pneumatic clutches are in Airflex clutch type. Drums have friction band brake system.

Auxiliary brake is in Hydro-brake type.

All chains, bearings and sprockets are protected with automated lubrication system.

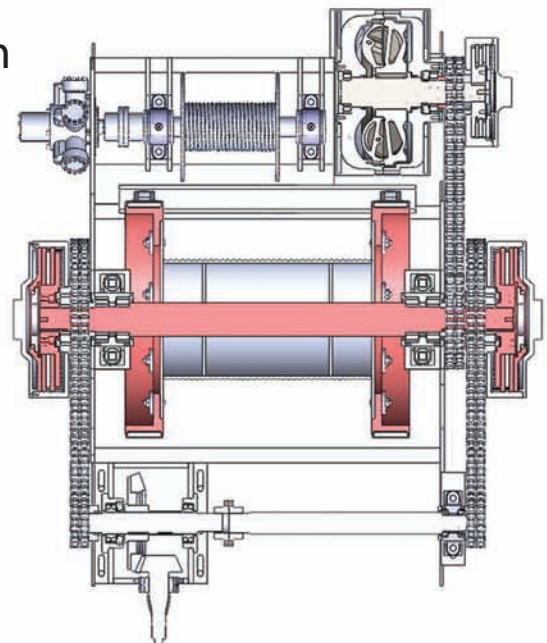
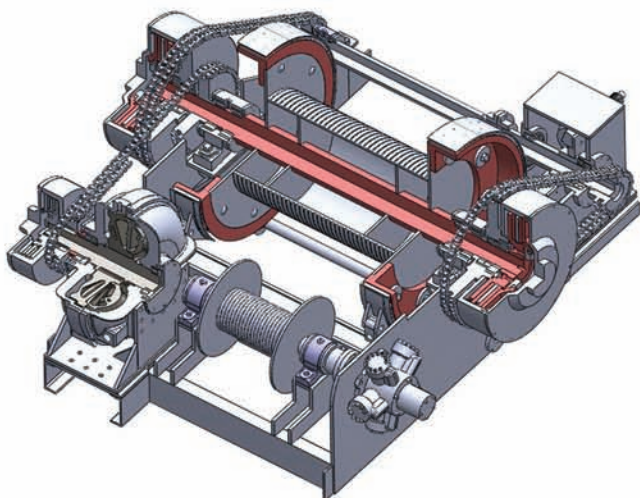


Double Drum



DRAWWORKS								
DRAWWORKS	PDW 60	PDW 90	PDW 110	PDW 125	PDW 135	PDW 160	PDW 180	PDW 200
MAIN DRUM								
Input Power	350 Hp	350 Hp	400 Hp	500 Hp	600 Hp	800 Hp	1000Hp	1200Hp
Barrel Size	D15" W24"	D16" W36"	D18" W38"	D18" W38"	D18" W38"	D24" W42"	D24" W42"	D24" W42"
Brake Rim Size	D38" W8"	D42" W12"	D42" W12"	D42" W12"	D42" W12"	D42" W12"	D42" W12"	D42" W12"
Wire Line Size	26 mm	26 mm	26 mm	26 mm	26 mm	29 mm	29 mm	32 mm
Drum Speed	6F/1R	6F/1R	6F/1R	7F/1R	7F/1R	6F/1R	7F/1R	7F/1R
Brake Cooling	Water Circulation							
Brake System	Band / Disc / Auxiliary (Hydro-Brake)							
Lubrication	Automatic							
Drum Clutch	Air Flex Type							
SANDLINE DRUM								
Barrel Size	D 13" W 41½"	D 13" W 39"	D 13" W 37"	D 13" W 37"	D 13" W 37"	D 13" W 37"	D 13" W 37"	D 13" W 37"
Brake Rim Size	D 36" W 8"	D 40" W 10½"	D 44" W 9½"	D 44" W 9½"	D 44" W 9½"	D 44" W 9½"	D 44" W 9½"	D 44" W 9½"
Spooling Capacity	11900'	13500'	16114'	16114'	16114'	16114'	16114'	16114'
Wire Line Size	9/16" (14 mm) - 5/8" (16 mm)							

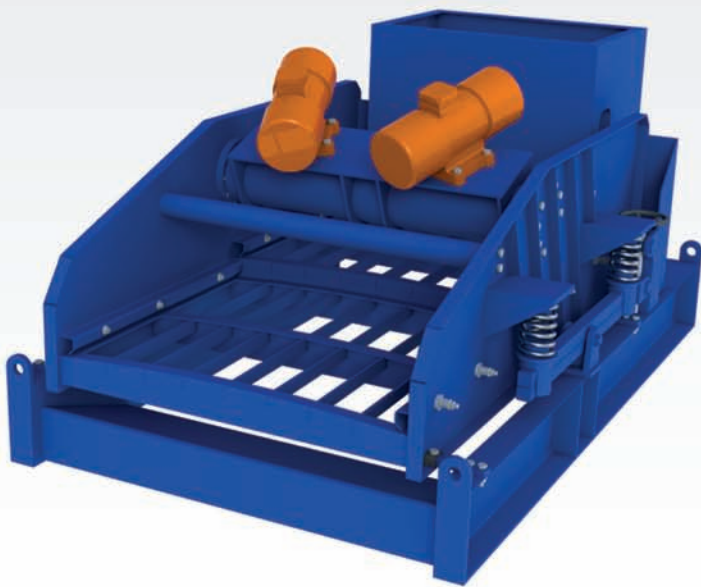
Single Drum





Petromak Clutch

Petromak Airflex Type Clutches are manufactured in various sizes and types due to transmission purposes. Airflex and plate type clutches are precisely designed and manufactured from materials with maximum clutch performance and long life.



Petromak Shale Shaker

Petromak Linear Motion Shale Shakers have many advantages, which are high vibrating strength, wide screen size, screen angle adjustment, compact, high performance, cost-effective.

Pneumatic Clutch	Torque Rating	Max. Speed	Friction Area	Drum Dia.
32-PM-1000	44100 Nm	1000 RPM	5823 cm ²	780 mm
28-PM-525	12000 Nm	1000 RPM	2770 cm ²	706 mm
20-PM-500	6000 Nm	1300 RPM	1858 cm ²	505 mm

Shale Shaker	Motor Power (kW)	Deck Area (m)	Approx. Dia. (m)	Single Weight (kg)
Double Deck	2 x (1.94)	2 x (1.18 x 1.08)	1.76 x 2.84 x 1.33	1750

Petromak Traveling Block & Hook

Petromak designs and manufactures a full line of standard and custom traveling blocks in accordance with API 8C specification.

Traveling blocks designed and built by Petromak have a minimum height and width dimension to allow maximum travel and working space for handling any load requirement.

Sheaves of traveling blocks, using roller bearings, are designed to quality standards that meet API 8C specification.

The Hook is designed and manufactured in accordance with API 8C specification and other related technical standards.

Hook with traveling block together can be designed and configured as the customers requirement.



Petromak Rotary Table

Petromak Rotary Tables conform to API 7K specification.

The pinion and the gear are made of alloy steel.

The master bushing is made from a steel casting.

Pin transmission type is suitable for API standard square kelly or hexagonal kelly roller bushing.

Effective lubrication and reliable seals are provided by designed.

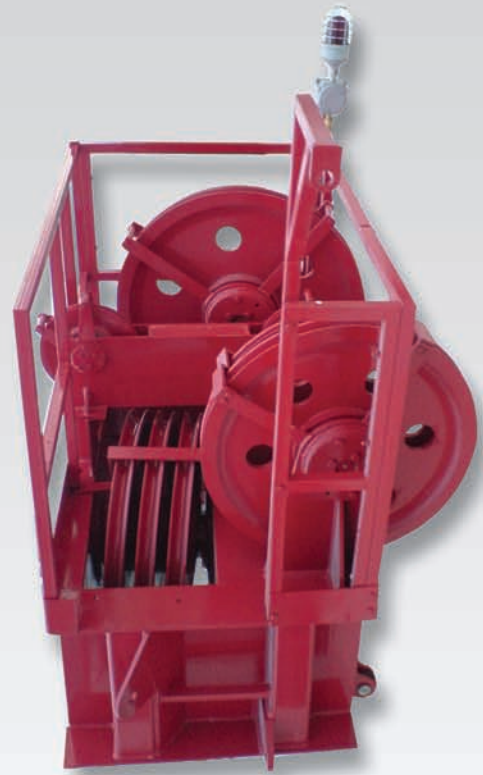
Petromak Crown Block

Petromak designs and manufactures a complete line of standard and custom crown blocks for masts and derricks in accordance with API 4F and 8C specifications.

In the design of the crown blocks, the fast line sheave is positioned independent of the sheave cluster which optimizes the drum fleet angle, ensures proper spooling of the line on the drawworks drum and minimizes line wear.

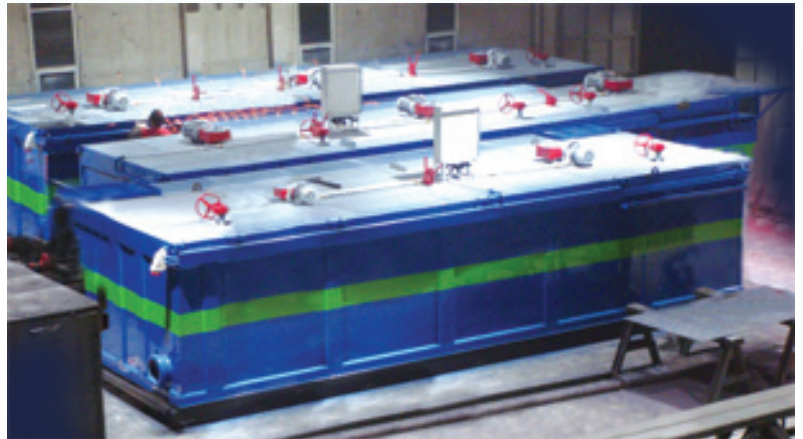
Sheave grooves are formed for each specific wire line size and flame hardened to resist wear.

Petromak can provide all types of crown blocks for drilling rigs and workover rigs.



Petromak Mud Tanks

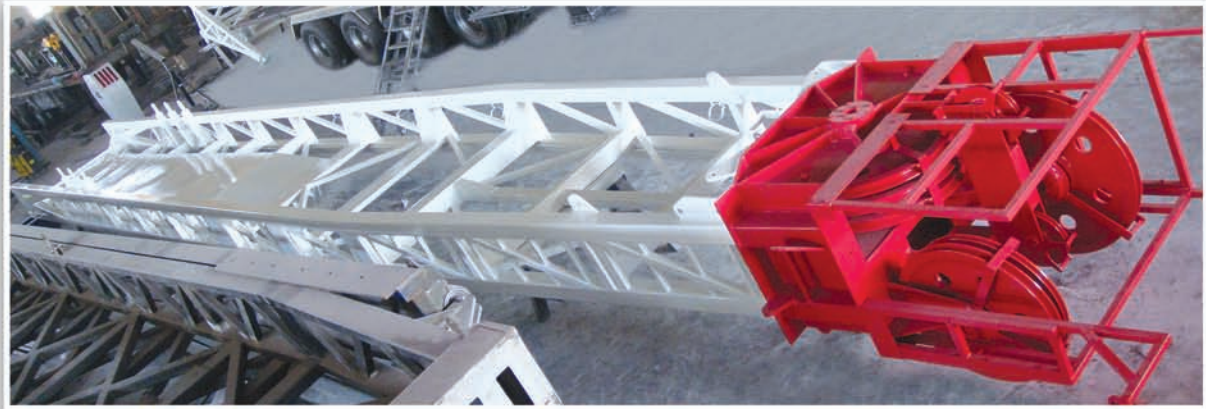
Petromak Mud Tanks can be produced within various capacity, dimensions and flow dynamics according to customer desire.



Petromak Mast

Petromak designs and manufactures masts ranging in size and capacity from workover rigs to drilling rigs. All masts conform to API 4F specification.

Petromak drilling platform production is performed with high resistant and light materials. Mounting processes of all components are performed with a special welding process.



Petromak Substructure

All substructure design of Petromak complies with API 4F specification. Easy assembly-disassembly provides facility for operation and comfortable working possibility.

The substructure is a conventional (non trailer type) parallelogram structure. It is equipped with walkways, guardrails, ladders, slide and ramp. Square tubing is used for guardrail with insert-type construction. There are two winches has a rail system under rotary table for easy BOP installation.





Petromak Hydro-Brake

Petromak Hydro-brakes provide easy and safe application as auxiliary brake in all drawworks operations. Driller may operate without previous experience or special training.

Petromak Swivel

Petromak swivel conform to API 8A specification. The washpipe and packing are box structure, convenient for replacement. Equipped with rotary hose joint (4 API LP).



Petromak Mixing Hopper

Petromak Mixing Hopper is special equipment to prepare and increase the drilling fluids weight by adding and mixing bentonite, change the fluid density, change the mud density, viscosity, and dehydration.



Certified Quality System



Petromak quality management system is certified by ISO 9001 – 2000 and GOST-R (Russian approval) for special products.



Partners and Equipments

