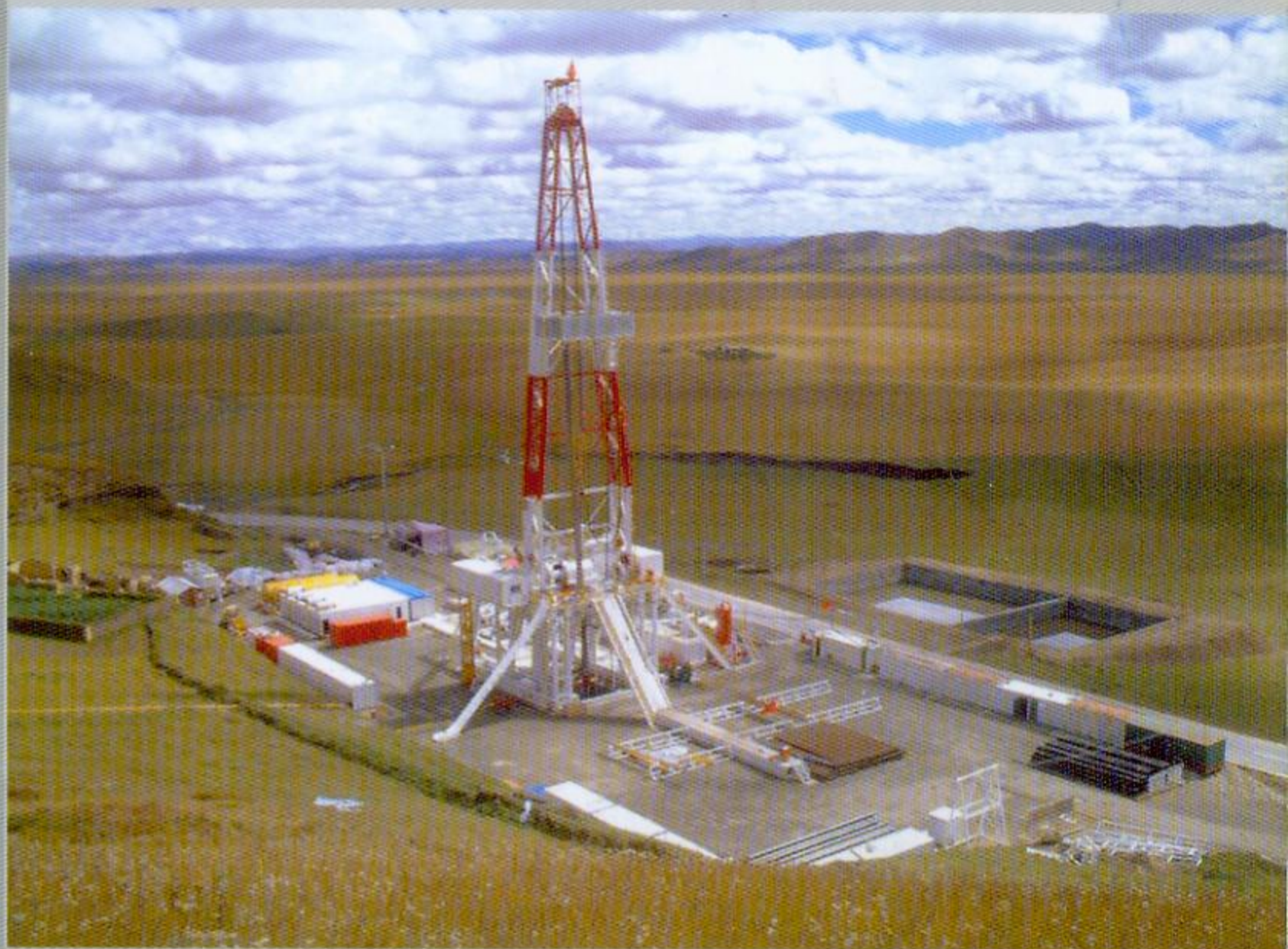




ONSHORE DRILLING RIG



CATALOGUE 2009

OILMAN RIG CO.,LTD

Rig Design Rig Fabricating

The following components are API Specified with API monogram on.

- Mast: API 4F
- Substructure: API 4F
- Drawworks: API 7K
- Mud pump: API 7K
- Hoisting equipments: API 7K, 8A and 8C
- Rotary table: API 7K
- Rotary hose: API 7K
- Drilling line: API 9A
- Tubular handling tools: API 7K, 8A, and 8C
- BOP and accessories: API 16A , 16C, and 16D



The power control system and electricity system are designed as per

the following standards:

- API RP 500: Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities
Classified as Class I, Division I and Division 2.
- IEC 60439: Low-voltage switchgear and control gear assemblies
- IEEE: Institute of Electrical and Electronics Engineers.
- IEC 60079: Electrical Apparatus for Explosive Gas Atmospheres.
- NEMA

Rig Build and Assembly

Painting Procedure

Standard three coat epoxy paint system consisting of:

- Blast to near white metal (SSPC-10)
- zinc rich primer (3 mils D.F.T.)
- epoxy intermediate coat (4 mils D.F.T.)
- urethane top coat (2 mils D.F.T.) in customer's color



E1000SCR 1000HP SCR Drilling Rig

E1000SCR rig is designed and manufactured as per API Specification with the

following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- DC motor double drum Drawworks
- DC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent DC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-11A Top Drive.

The key specifications are:

- Max. input Horse power of Drawworks: 1000 HP
- Drilling Capacity by 4-1/2"DP: 4000 meters
- Max. Hook load: 250 tons (500,000 lbs)
- Hosting system: 5 x 6 (10 lines)
- Rotary Table: 27 1/2"
- Prime Power: 3 Nos. CAT 3512B GENSETS
- Auxiliary Power: 1 Nos. CAT C-16 GENSETS
- Drilling line: 1-1/4", IWRC + EIPS
- Height of mast: 140 ft (43m)
- Height of Substructure: 30 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 2 x 1300 HP
- Drilling Instrument: MD/Totco

E1000VFD 1000HP VFD Drilling Rig

E1000VFD rig is designed and manufactured as per API Specification with the

following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- AC motor gear driven single drum Drawworks
- AC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent AC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-11A Top Drive.

The key specifications are:

- Max. input Horse power of Drawworks: 1000 HP
- Drilling Capacity by 4-1/2"DP: 4000 meters
- Max. Hook load: 250 tons (500,000 lbs)
- Hosting system: 5 x 6 (10 lines)
- Rotary Table: 27 1/2"
- Prime Power: 3 Nos. CAT 3512B GENSETS
- Auxiliary Power: 1 Nos. CAT C-16 GENSETS
- Drilling line: 1-1/4", IWRC + EIPS
- Height of mast: 140 ft (43m)
- Height of Substructure: 30 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 2 x 1300 HP
- Drilling Instrument: MD/Totco



E1500SCR 1500HP SCR Drilling Rig

E1500SCR rig is designed and manufactured as per API Specification with the following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- DC motor driven double drum Drawworks
- DC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent DC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-11A Top Drive.



The key specifications are:

- Max. input Horse power of Drawworks: 1500 HP
- Drilling Capacity by 5"DP: 4500 meters
- Drilling Capacity by 4-1/2"DP: 5000 meters
- Max. Hook load: 350 tons (700,000 lbs)
- Hoisting system: 6 x 7 (12 lines)
- Rotary Table: 37 1/2"
- Prime Power: 4 Nos. CAT 3512B GENSETS
- Auxiliary Power: 1 Nos. CAT C-16 GENSETS
- Drilling line: 1-3/8", IWRC + EIPS
- Height of mast: 147 ft
- Height of Substructure: 30 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 2 x 1600 HP
- Drilling Instrument: MD/Totco

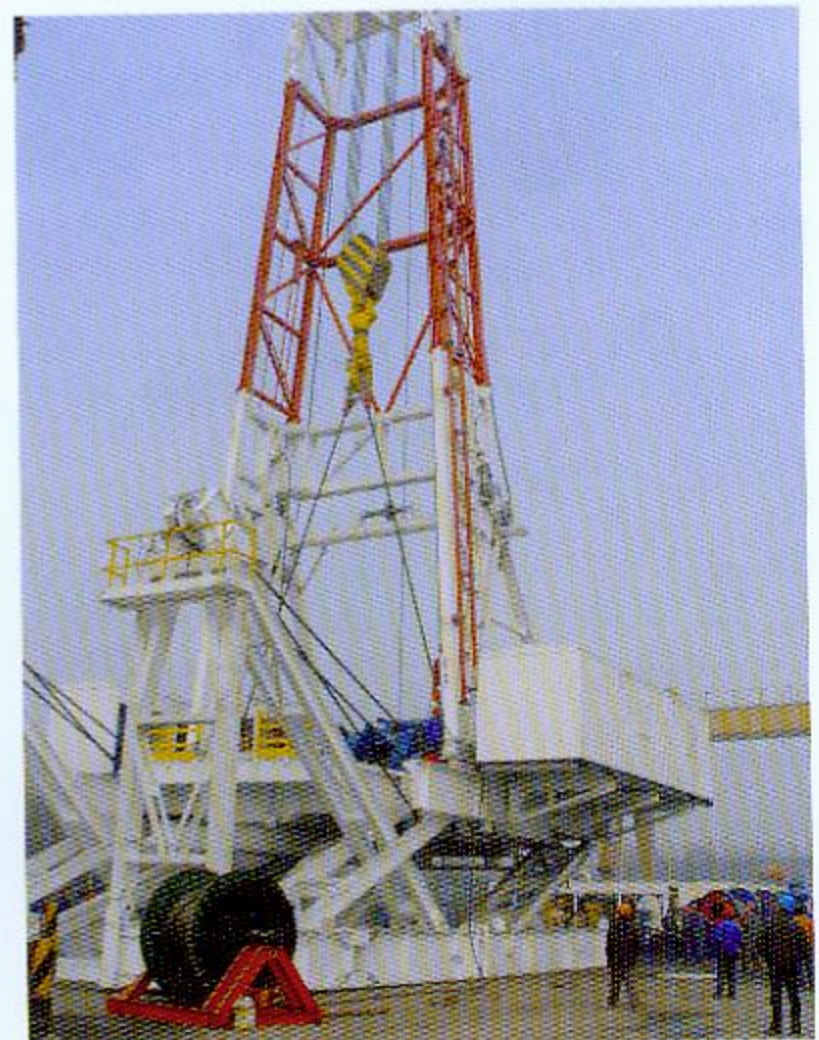
E1500VFD 1500HP VFD Drilling Rig

E1500VFD rig is designed and manufactured as per API Specification with the following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- AC motor gear driven single drum Drawworks
- AC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent AC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-11A Top Drive.

The key specifications are:

- Max. input Horse power of Drawworks: 1500 HP
- Drilling Capacity by 5"DP: 4500 meters
- Drilling Capacity by 4-1/2"DP: 5000 meters
- Max. Hook load: 350 tons (700,000 lbs)
- Hoisting system: 6 x 7 (12 lines)
- Rotary Table: 37 1/2"
- Prime Power: 4 Nos. CAT 3512B GENSETS
- Auxiliary Power: 1 Nos. CAT C-16 GENSETS
- Drilling line: 1-3/8", IWRC + EIPS
- Height of mast: 147 ft
- Height of Substructure: 30 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 2 x 1600 HP
- Drilling Instrument: MD/Totco



E1500SCR/VFD 1500HP SCR/VFD Drilling Rig

E1500SCR/VFD rig is designed and manufactured as per API Specification with the following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- AC motor gear driven single drum Drawworks
- DC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent AC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-11A Top Drive.

The key specifications are:

- Max. input Horse power of Drawworks: 1500 HP
- Drilling Capacity by 5"DP: 4500 meters
- Drilling Capacity by 4-1/2"DP: 5000 meters
- Max. Hook load: 350 tons (700,000 lbs)
- Hosting system: 6 x 7 (12 lines)
- Rotary Table: 37 1/2"
- Prime Power: 4 Nos. CAT 3512B GENSETS
- Auxiliary Power: 1 Nos. CAT C-16 GENSETS
- Drilling line: 1-3/8", IWRC + EIPS
- Height of mast: 147 ft
- Height of Substructure: 30 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 2 x 1600 HP
- Drilling Instrument: MD/Totco



E2000SCR 2000HP SCR Drilling Rig

E2000SCR rig is designed and manufactured as per API Specification with the following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- DC motor driven double drum Drawworks
- DC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent DC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-11A Top Drive.

The key specifications are:

- Max. input Horse power of Drawworks: 2000 HP
- Drilling Capacity by 5"DP: 6000 meters
- Drilling Capacity by 4-1/2"DP: 7000 meters
- Max. Hook load: 500 tons (1,000,000 lbs)
- Hosting system: 6 x 7 (12 lines)
- Rotary Table: 37 1/2"
- Prime Power: 4 Nos. CAT 3516B GENSETS
- Auxiliary Power: 1 Nos. CAT3412 GENSETS
- Drilling line: 1-1/2", IWRC +EIPS
- Height of mast: 157 ft
- Height of Substructure: 30 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 3 x 1600 HP
- Drilling Instrument: MD/Totco



E2000VFD 2000HP VFD Drilling Rig

The key specifications are:

- Max. input Horse power of Drawworks: 2000 HP
- Drilling Capacity by 5"DP: 6000 meters
- Drilling Capacity by 4-1/2"DP: 7000 meters
- Max. Hook load: 500 tons (1,000,000 lbs)
- Hosting system: 6 x 7 (12 lines)
- Rotary Table: 37 1/2"
- Prime Power: 4 Nos. CAT 3516B GENSETS
- Auxiliary Power: 1 Nos. CAT3412 GENSETS
- Drilling line: 1-1/2", IWRC +EIPS
- Height of mast: 157 ft
- Height of Substructure: 30 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 3 x 1600 HP
- Drilling Instrument: MD/Totco

E2000SCR/VFD rig is designed and manufactured as per API Specification

with the following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- AC motor gear driven single drum Drawworks
- AC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent AC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-11A Top Drive.



E2000SCR/VFD 2000HP SCR/VFD Drilling Rig

E2000SCR/VFD rig is designed and manufactured as per API Specification with the following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- AC motor gear driven single drum Drawworks
- DC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent AC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-11A Top Drive.

The key specifications are:

- Max. input Horse power of Drawworks: 2000 HP
- Drilling Capacity by 5"DP: 6000 meters
- Drilling Capacity by 4-1/2"DP: 7000 meters
- Max. Hook load: 500 tons (1,000,000 lbs)
- Hosting system: 6 x 7 (12 lines)
- Rotary Table: 37 1/2"
- Prime Power: 4 Nos. CAT 3516B GENSETS
- Auxiliary Power: 1 Nos. CAT 3412 GENSETS
- Drilling line: 1-1/2", IWRC +EIPS
- Height of mast: 157 ft
- Height of Substructure: 30 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 3 x 1600 HP
- Drilling Instrument: MD/Totco



E3000SCR 3000HP SCR Drilling Rig

E3000SCR rig is designed and manufactured as per API Specification with the

following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- DC motor driven double drum Drawworks
- DC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent DC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-8SA Top Drive.



The key specifications are:

- Max. input Horse power of Drawworks: 3000 HP
- Drilling Capacity by 4-1/2"DP: 9000 meters
- Max. Hook load: 650 tons (1,500,000 lbs)
- Hosting system: 7 x 8 (14 lines)
- Rotary Table: 37 1/2" (49 1/2")
- Prime Power: 5 Nos. CAT 3516B GENSETS
- Auxiliary Power: 2 Nos. CAT3412 GENSETS
- Drilling line: 1-5/8", IWRC +EIPS
- Height of mast: 157 ft
- Height of Substructure: 35 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 3 x 2200 HP
- Drilling Instruments: MD/Totco

E3000VFD 3000HP VFD Drilling Rig

E3000VFD rig is designed and manufactured as per API Specification with the following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- AC motor single shaft gear driven single drum Drawworks
- AC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent AC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-8SA Top Drive.

The key specifications are:

- Max. input Horse power of Drawworks: 3000 HP
- Drilling Capacity by 4-1/2"DP: 9000 meters
- Max. Hook load: 650 tons (1,500,000 lbs)
- Hosting system: 7 x 8 (14 lines)
- Rotary Table: 37 1/2" (49 1/2")
- Prime Power: 5 Nos. CAT 3516B GENSETS
- Auxiliary Power: 2 Nos. CAT3412 GENSETS
- Drilling line: 1-5/8", IWRC +EIPS
- Height of mast: 157 ft
- Height of Substructure: 35 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 3 x 2200 HP
- Drilling Instruments: MD/Totco



E3000SCR/VFD 3000HP SCR/VFD Drilling Rig

E3000SCR/VFD rig is designed and manufactured as per API Specification with the following features:

- Sling-shot or swing up type substructure
- Cantilever (K) type Mast
- AC motor single shaft gear driven single drum Drawworks
- DC motor driven Mud pumps
- Equipped with Hydraulic Disc braking system.
- Independent AC motor driven Rotary table by universal shaft via gear box.
- Accommodate to VARCO TDS-8SA Top Drive.

The key specifications are:

- Max. input Horse power of Drawworks: 3000 HP
- Drilling Capacity by 4-1/2"DP: 9000 meters
- Max. Hook load: 650 tons (1,500,000 lbs)
- Hosting system: 7 x 8 (14 lines)
- Rotary Table: 37 1/2" (49 1/2")
- Prime Power: 5 Nos. CAT 3516B GENSETS
- Auxiliary Power: 2 Nos. CAT3412 GENSETS
- Drilling line: 1-5/8", IWRC +EIPS
- Height of mast: 157 ft
- Height of Substructure: 35 ft clear from ground up to bottom of Rotary table beam.
- Mud pump: 3 x 2200 HP
- Drilling Instruments: MD/Totco

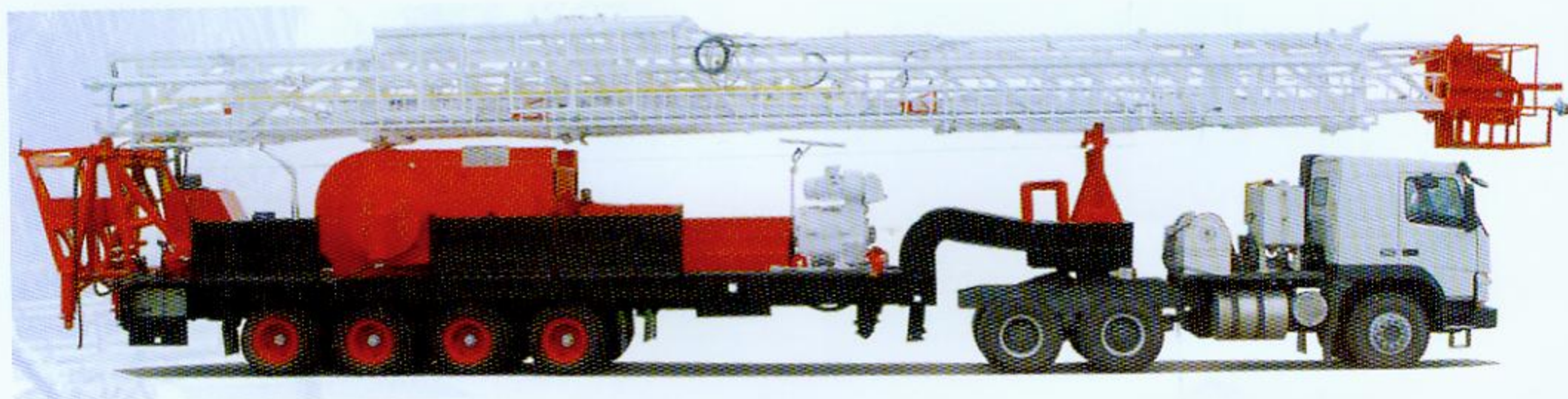


ELECTRICAL-DRIVE TRAILER-MOUNTED DRILLING RIG

- These drilling rigs are designed and manufactured in accordance with API Spec Q1, 4F, 7k, 8C and RP500, GB3826.1, GB3836.2, GB7258, SY6584 standards as well as "3C" compulsory standard.
- These the drilling rigs consist of trailer-mounted main unit, drive system, drill floor, DP slide way, control system and auxiliary system, etc.
- The drawworks and rotary table are driven by DC brushless - excitation motors, and the driving control is realized by digital AC-SCR-DC system.
- The hydraulic disc brake is for main brake and FDWS is for auxiliary brake.
The derrick which is front- open type and two - section structure with an inclination angle or erective sections can be raised up or lain down and telescoped.
- The substructure with the height of 5.5 m has a parallelogram integral structure with two sections supported by 6 setbacks, which can be raised spirally.
- The structure is simple, but easy for installation, movement and the transmission is reliable.
- Safety and inspection measures are strengthened under the guidance of the design concept of "Humanism Above All" to meet the requirements of HSE.



Model	ZJ20/1580CT	ZJ30/1700CT	ZJ30/1700DBT	ZJ40/2250CT	ZJ40/2250DBT
Drilling depth	6600(4 1/2" DP) 5900(5" DP)	10000(4 1/2" DP) 6600(5" DP)	12000(3 1/2" DP) 10000(4 1/2" DP)	13000(4 1/2" DP) 10000(5" DP)	13000(4 1/2" DP) 10000(5" DP)
Max hook load (lbs)	350000	400000	400000	500000	500000
Hook speed (ft/s)	0.67 ~ 4.92				
Mast height (ft)	118/125				
Derrick type	Mast type or erective sections				
Height of drill floor (ft)	14.76	19.69	18.06	19.69	19.69~21.98
Engine model	CAT3412 DITA OR C-16 ATTAC	2XCAT3408DITA OR 2XC-15ATAAC	3508B+SR48 diesel generator set	CAT3412 DITA OR C-16 ATTAC	3508B+SR48 diesel generator set
Engine power (No X hp)	650 Or 660	2X475	2X1341+85	2X650 OR 2X660	2 X 1676+805
Transmission mode	Hydraulic + Mechanical	Hydraulic + Mechanical	VFD	Hydraulic + Mechanical	VFD
Model of the transmission box	S6610H	2XS5610H	TZJ30	2X S6610H	TZJ40
Traveling system	4X5	5X6	4X5	5X6	5X6
Model of the drawworks	JC20CT	JC30CT	JC30DBT	JC40DBT	JC40DBT
Main brake	Disc	Disc	Disc	Disc	Disc
Auxiliary brake	WCB224	WCB324	DWS40	WCB236	DWS40
Main wire line diameter (in)	1 1/4				
Model of the hook block	YG160	YG180	YG180	YG225	YG225
Swivel model	SL16	XSL225	XSL225	XSL225	XSL225
Model of rotary table	ZP175	ZP175	ZP205	ZP275	ZP275
Power for mud pump (hp/set)	791	791/2	1000/2	1287/2	1287/2
Working pressure of the hydraulic system (psi)	2002				
Working pressure of the air system (psi)	143				



TRUCK-MOUNTED DRILLING RIG

- These drilling rigs are designed and manufactured in accordance with API Spec Q1, 4F, 7K, 8C and RP500, GB3826.1, GB3836.2, GB7258, SY6584 standards as well as "3C" compulsory standard.
- The whole rig is very compact, which requires a small installation space due to its high integration. The heavy-duty and self-propelled chassis: 8X6, 10X8, 12X8, 14X8, 14X12, 16x12 and hydraulic steering system is utilized respectively, which ensures the drilling good accessibility and cross-country capability.
- The reasonable assembly of the CATERPILLAR engine and the ALLISON transmission box can ensure high driving efficiency and working reliability.
- The main brake adopts disc brake or band brake and air brake or water brake or FDWS brake can be applied as auxiliary brake.
- The rotary table transmission box provides forward-reverse shift, which can be suitable for all of kinds of DP rotary operations, and the anti-torque releasing device can be used to make the DP deformation force release safely.
- The mast, which is front - open and double-section type with an inclination angle is an erective double-section type, can be raised up or laid down and telescoped hydraulically.
- The drill floor is twin-body telescopic type or with parallelogram structure, which is convenient for easy hoist and transportation. The height of the drill floor can be designed in accordance with the client's requirements.
- The perfect configurations of the solid control system, well control system, hi-pressure pipe manifold system, generator house, engine pump house, doghouse and other auxiliary facilities can meet user's different requirements.
- Safety and inspection measures are strengthened under the guidance of the design concept of "Humanism Above All" to meet the requirements of HSE.





THE MAIN TECHNICAL PERFORMANCES AND PARAMETERS FOR TRUCK-MOUNTED DRILLING RIGS

Model	10/900CZ	ZJ15/1125CZ	ZJ20/1580CZ	ZJ30/1700CZ	ZJ40/2250CZ
Drilling depth (ft) (4 1/2" DP)	3300	5000	6600	10000	13000
Work over depth (ft) (3 1/2" DP)	10500	15000	18000	21000	23000
Max hook load (lbs)	200000	250000	350000	400000	500000
Hook speed (ft/s)			0.66-4.59		
Mast height (ft)	95	105	115	118/125	118/125
Type	Mast	Mast	Mast	Mast or Erection	Mast or Erection
Engine model	CAT3406 OR C-9 ATAAC	CAT3408 DITA OR C-15 TAAC	CAT3412 DITA OR C-16 ATAAC	2XCAT3408 DITA OR C-15 TAAC	2XCAT3408 DITA OR C-15 TAAC
Engine power	360 OR 350	475	650 OR 660	2X475	2X530 OR 2X525
Transmission mode			Hydraulic + mechanical		
Traveling system	3X4	4X5	4X5	4X5/5X6	5X6
Main wireline diameter (in)	1	1	1 1/4	1 1/4	1 1/4
Hook block	YG90	YG110	YG160	YG180	YG225
Swivel	SL110	SL135	SL160	SL225	SL225
Rotary table	ZP175	ZP175	ZP175	ZP205/ZP275	ZP205/ZP275
Chassis	XD40/8X6	XD50/10X8	XD60/12X8	XD70/14X8	XD 70/14X8
Approaching angle/leave-taking angle			26"/28"		
Min. ground clearance (in)			12 1/4		
Max gradient	30%	26%	26%	26%	26%
Min turning diameter (ft)	92	98	125	135	135
Overall dimension (ft)	55X9X15	62X9X14	67X9X15	73X10X15	73X10X15
Weight of the main unit (lbs)	93000	110000	130000	170000	170000
Weight of accessories (lbs)	33000	44000	53000	70000	75000

COLD WEATHER DRILLING RIG

All type of the cold weather drilling rigs can be fit for chill oil filed in Russia, Canada, etc.

Working ambient temperature: -45°C -35°C

Save storage temperature: -60°C

Main load supporting parts adopt cryogenic materials and via low temperature welding assess.

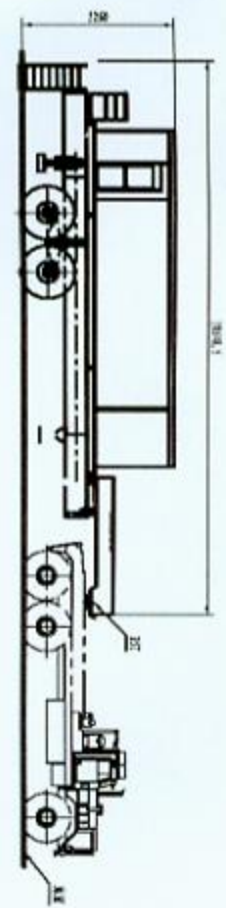
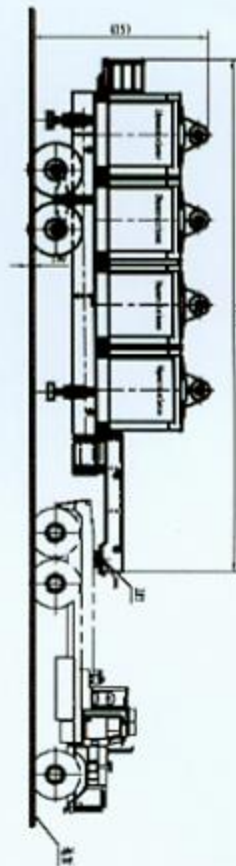
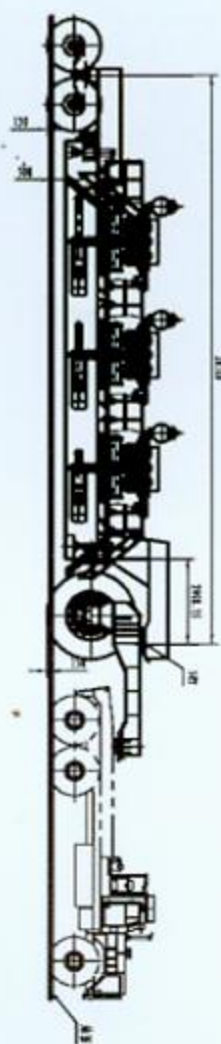
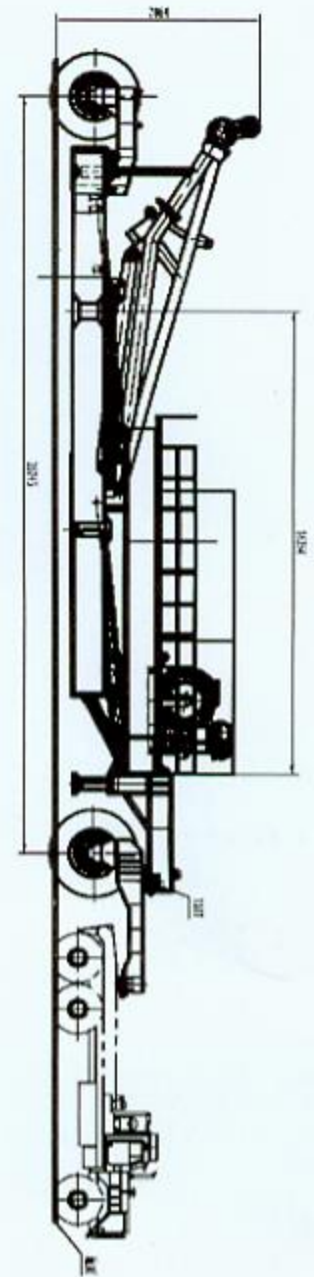
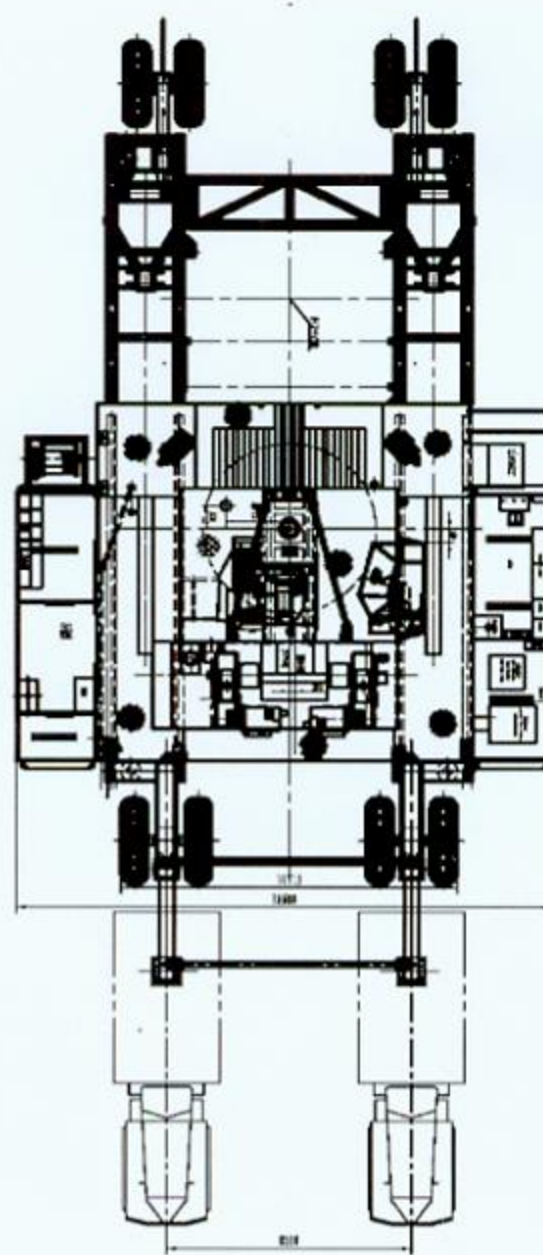
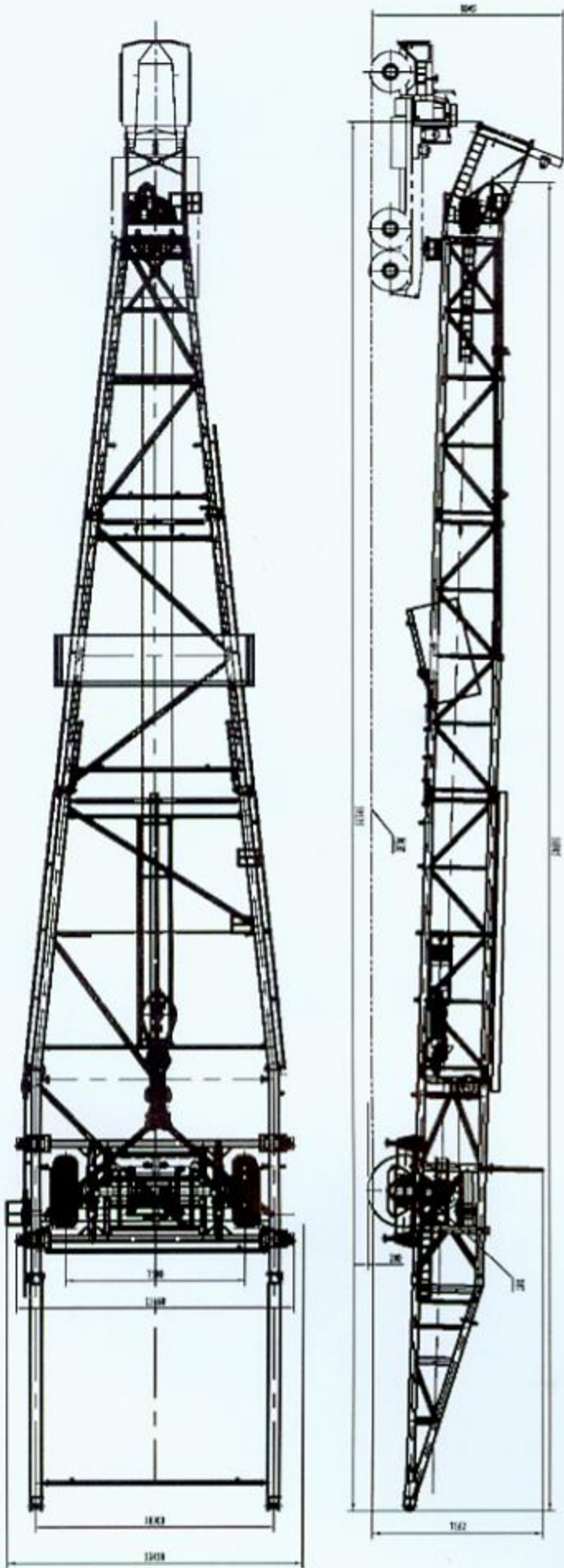
Traveling system adopts special materials and procedure to ensure low temperature service performance.

All hydraulic lines, air lines, cable, valve, oil, etc are made of cryogenic materials.

Electrical heating or steam heating is used on transmission box, oil tank or water tank.

Special windproof, heat preservation and heating measures are adopted on the drilling rig.





RIG MOVING SYSTEM

Mast assembly moving system

Description	Parameter
Total weight of Mast	130t
Capability of moving	140 t
Max moving speed	5 km/h
Type of tyre	Desert 36.00 - 51
Qty. of tyres	2
Min clearance from ground	1200mm
Overall moving dimension	57×12.4×5.6 (m)
Type of traction pin	3 1/2"
Required road width	9m
Operating temperature range	-17 ~ 55℃
Operating road surface	Hard surface in desert

Substructure assembly moving system

Description	Parameter
Total weight of Substructure	350 t
Capability of moving	400 t
Max allowable incline/ elevation	±3°
Max moving speed	5 km/h
Type of tyre	Desert6 36.00 - 51
Qty. of tyres	8
Min clearance from ground	600mm
Overall moving dimension	34×18.6×7 (m)
Type of traction pin	3 1/2"
Required road width	12m
Operating temperature range	-17 ~ 55℃
Operating road surface	Hard surface in desert



TRAVELLING BLOCK

FEATURES

- The wire line is kept taut when hoisting or lowering down the unload Block.
- The Sheave grooves are hardened by medium frequency induction to provide extended services life.
- Equipped with double-row conical roller bearings and each bearing are individually lubricated.
- The sheaves and bearing are interchangeable with those of corresponding crown block
- The traveling blocks conform to API Specification 8A and API monogram will be marked.



Model	YC135	YC170	YC225	YC315	YC450	YC585
Max. Hook load (ton)	135	170	225	315	450	585
OD of Sheaves (in)	36	36	44	50	60	60
No of Sheaves	4	5	5	6	6	7
Size of wire rope (in)	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8

HOOK

FEATURES

- Equipped with a hydraulic snubber assembly to protect tools joints when making up /breaking out connection.
- Equipped with the reliable safety devices on the hook.
- The high stress parts of every hook are subjected to non-destructive testing.
- The hooks confirm to API specifications 8A and API monogram will be marked.



Model	DG135	DG170	DG225	DG315	DG450	DG585
Max. Hook Load (ton)	135	170	225	315	450	585
Major Hook opening (mm)	165	180	190	220	220	238
Spring travel (mm)	180	180	180	200	200	200
Width Overall (mm)	720	750	780	890	890	930
Length (mm)	2200	2450	2548	2960	2960	3156
Weight (kg)	1910	2020	2180	3410	3496	3900

BLOCK HOOK UNIT

FEATURES

- Combination of traveling block and hook together reduces overall length and can help satisfy the requirements of operating top drive.
- The Hook blocks conform to API Spec 8A and API Monogram will be marked.



Model	YG90	YG135	YG170	YG225	YG450
Max. Hook Load (ton)	90	135	170	225	450
OD of Sheave (In)	30	36	36	44	60
No of Sheave	4	4	5	5	6
Size of Wire Rope (In)	1	1	1 1/8	1 1/4	1 1/2
Major Hook opening (mm)	155	165	180	190	220
Major Hook Dia (mm)	116	140	150		180
Associate Hook Dia (mm)	80	90	90		120
Spring Travel (mm)		170	140	180	

SWIVEL

FEATURES

- The standard bails and alloy steel sub with double pin ends.
- The wash pipe and packing assembly are cartridge type and can be replaced on the floor without disconnecting the rotary hose and/or gooseneck.
- The gooseneck is provided with an outlet for wire line logging.
- Offer 4" hose connector conforms to API spec.
- Swivels conform to API Spec 8A and are granted to use API monogram.



Model	SW135	SW170	SW225	SW450	SW585
Max. Static Load rating (ton)	135	170	225	450	585
Max. Rotating Speed (rpm)	300	300	300	300	300
Max. Working Pressure (PSI)	5000	5000	5000	5000	5000
Hook Clearance over Gooseneck (In)	19 1/2		21 1/4	21 19/32	23
Stem (Inch)	2 1/2	2 1/2	3	3	3
Gooseneck Thread Reg	4 1/2" Reg. LH	4 1/2" Reg. LH	6 5/8" Reg. LH	7 5/8" Reg. "LH	7 5/8 Reg. LH
Stem Thread (lower end)	6 5/8" Reg. LH	6 5/8" Reg. LH	6 5/8" Reg. LH	6 5/8" Reg LH	6 5/8" Reg L

ROTARY TABLE

FEATURES

- Both C. Emsco and National Oilwell designs are available.
- The pinion and gear are made of alloy steel.
- The extension and its keyway of the pinion shaft all meet API Spec.
- The master bushing is made of steel casting with API Standard square Kelly or Hexagonal Kelly as per Varco designs.
- Mechanical and electrical independent table drives can be furnished.



Model	RT175	RT205	RT275	RT375	RT495
Equivalent	T-1750-44	T-2050	1-2750	T-3750	T-4950
Max. Opening (in)	17.5	20.5	27.5	37.5	49.5
Distance from table axis to center inner row of sprocket teeth (in)	44	53.25	53.25	53.25	65
Max. Working Torque (lbft)	10,132	16,646	20,265	23,883	26,778
Max. Speed (RPM)	300	300	300	300	300
Gear Ratio	3.58	3.22	3.67	3.56	3.93

F SERIES MUD PUMPS

- F Series Triplex Single Acting Mud pumps are machined under C. Emsco designs with all fluid end parts interchangeable to those for C. Emsco OEM pump.



Model	Max. Line Size x Stroke (in)	Strokes rating (SPM)	Power Rating (HP)	Discharge outlet (inch)	Valve Pot, API #
F-500	6 3/4 X 7 1/2	165	500	4" F, 5M	5
F-800	6 3/4 X 9	150	800	5" F, 5M	6
F-1000	6 3/4 X 10	140	1000	5" F, 5M	6
FB-1300	7 X 12	120	1300	5" F, 5M	7
FB-1600	7 X 12	120	1600	5" F, 5M	7
F-1600HL	7 1/2 X 12	120	1600	5" F, 5M	7
F-2200	9 X 14	105	2200	5" F, 5M	8
F-2200HL	9 X 14	105	2200	5" F, 5M	8

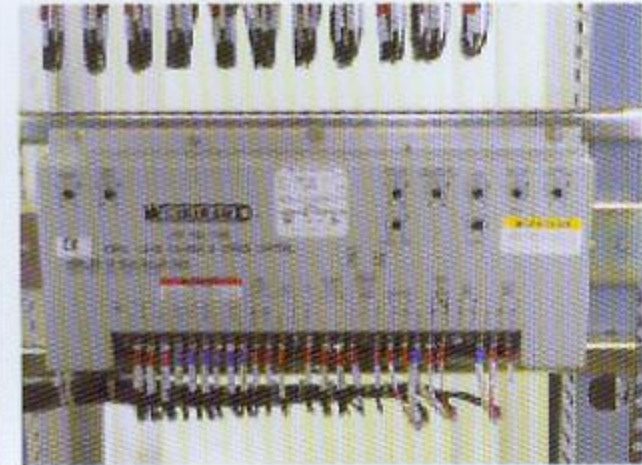
PZ SERIES PUMP

PZ series Pump is machined assembly and tested under Gardner Denver designs with all fluid end parts interchangeable.



Model	ax liner size & Stroke(in)	Displacement (GPM)	Max. RPM	Power Rating (HP)	Gear Ratio	Weight(lbs)
PAH275	5x8	357	175	275	4.7:1	9810
PZ-7	7x7	507	145	550	4.625:1	16,765
PZ-9	7x9	585	130	1000	4.48:1	24,368
PZ-11	7x11	632	115	1600	4.38:1	37,000

SCR/MCC Well Site Electrical





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