



ANA OILFIELD EQUIPMENT LIMITED

COMPANY PROFILE



**“ Minimize Risk, Add Value &
Save time, effort and Money. ”**

Contact:
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Business Concept



A.N.A engages in the export of the manufactured drilling, production materials and equipment to the world and works as the main supplier of global oil and gas projects.

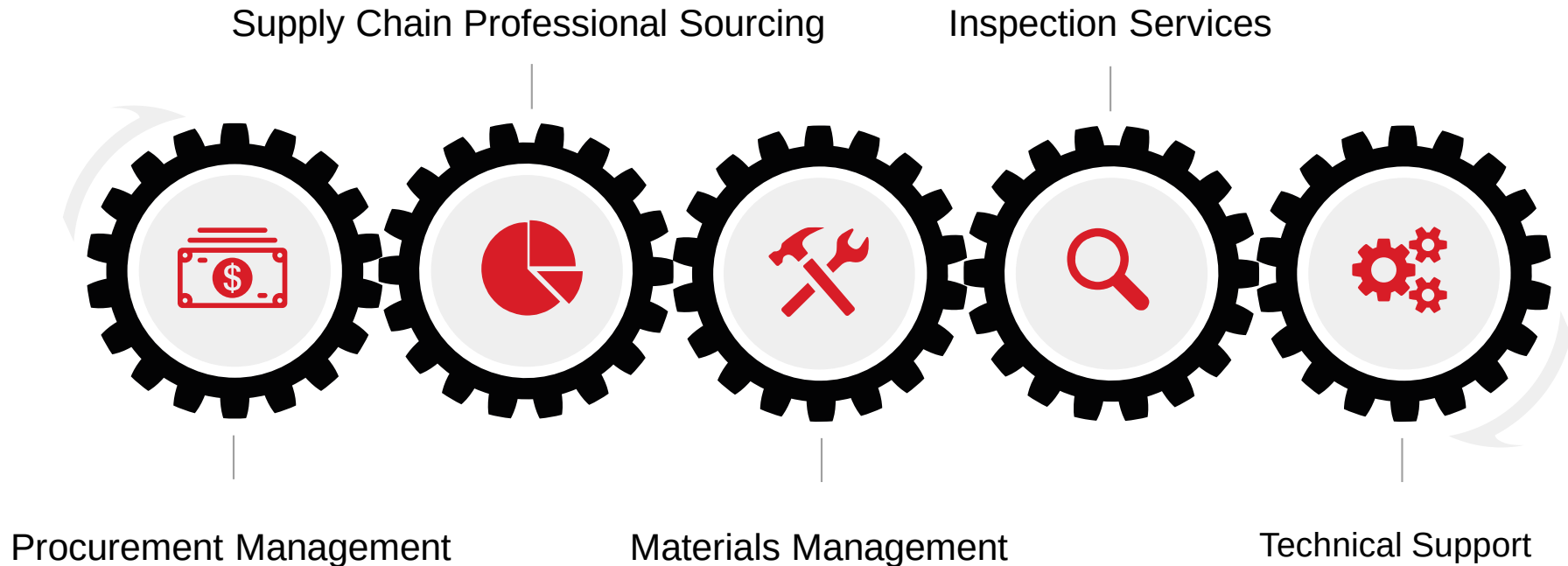


A.N.A values the cultivation of core competence. It has formed relatively strong scale & strength and comparative advantages through continuous efforts. It possesses market development capacity with diversified marketing approaches. Focusing on the requirements of the customers

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Business Scope



Mission



Offer the best service available.



Provide the best possible products



Offer those products at the most competitive prices



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Challenges



Different business cultures



Communication issues



Distance



Potentially unreliable
and untrustworthy vendors



Technological differences



Changing import duties



Fluctuating currency



Poor customer
service and support

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Strengths

Experience

Over 15 years in oil & gas drilling industries, and special teams in Quality assurance and Logistic Control.

Communication

Smooth communication for business and technical support.

Strategical Partners

Agent for large manufacturers in the field of oil & gas

Marketing

Destination business partner on-time support for your needs

Competition



On behalf the interest of customer:

An extremely important mind-set in our business model is that only our client success makes A.N.A success



Risk Minimization:

Monitoring the material, production, inspection, and recording all details to ensure all specs are achieved.



Cost Saving:

Less administration cost and third-party inspection cost from customer.



Negotiation Skills:

Excellent knowledge of market price in different mills.



Direct Communication:

Go direct to Owner or PIC in any case of any problems needed to solved.

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Competition



Time Management:

Through the processes of Production, inspection, shipping, and Bank documentation for smooth delivery process.



Technical Specialization:

Offering support regarding engineering decisions



Sourcing:

Identification and evaluation of suppliers



Quality Control:

Ensuring quality control and quality assurance with in-house and third-party.



Logistics management:

A.N.A manages the best suitable shipping method to import cargo to destination point

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A.N.A. Oilfield Equipment Limited

WF1300B
WF1300C.
WF1600
WF1600L
WF1600LH (7500 PSI).
WF1600H (7500 PSI)..
WF2000 (7500 PSI).
WF2200
EMSCO
F-350.
F-500.
F-650.
F-800.
F-1000..
FB-1300
FB-1600
FC-1600
FC-2200
EWCO (LEWCO)
W-440-LP.
W-446
EWECO
(ELLIS WILLIAMS ENGINEERING Co)
E-447
GARDNER DENVER
TEE-5.
PAH..
PZ-7
PZ-8

Mud pump consumables

PZ-9
PZ-10
PZ-11
PZ-11HP
PXL

IDECO

T-500
T-800
T-1000
T-1300
T-1600

NATIONAL

JWS-165
JWS-340
JWS-400
7-P-50
8-P-80
9-P-100
10-P-130
12-P-160
12-P-160 Fast Change
12-P-160 (7500 PSI)
14-P-220

OILWELL

A-350-PT
A-560-PT
A-600-PT



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A-850-PT
A-1100-PT
A-1400-PT
A-1700-PT
OPI
OPI-700
BOMCO
F-500
F-800
F-1000
FB-1300
FB-1600
LANSHI
3NB1000C
3NB1300C
3NB1600
HONGHUA
HHF-1300
HHF-1600
SOUTHWEST
12-P-160
FB-1300
FB-1600
A-1400
A-1700

**FLUID END MODULE AND
ACCESSORIES**

TSC

WFU340
WF400
WFU450
WWS500
WF700
WF1300B
WF1300C
WF1600
WF1600L
WF1600LH (7500 PSI)
WF1600H (7500 PSI)
WF2000 (7500 PSI)
WF2200

EMSCO

F-350, F-500, F-650
F-800, F-1000
FB-1300, F-1600
FC-1600 (7500 PSI)
FC-2200

GARDNER DENVER

PAH
PZ-7, PZ-8, PZ-9
PZ-10, PZ-11
PZ-11HP (7500 PSI)

IDECO

T-500, T-800, T-1000
T-1300, T-1600

NATIONAL

8-P-80
9-P-100
10-P-130
12-P-160 (7500 PSI)
12-P-160 (FAST CHANGE)
12-P-160 (7500 PSI)
14-P-220

OILWELL

A-850-PT, A-1100-PT, A-1400-PT, A-1700-PT

BOMCO

F-500
F-800, F-1000
F-1300, F-1600

LANSHI

3NB1000C
3NB1300C
3NB1600

HONGHUA

HHF-1300, HHF1600

SOUTHWEST

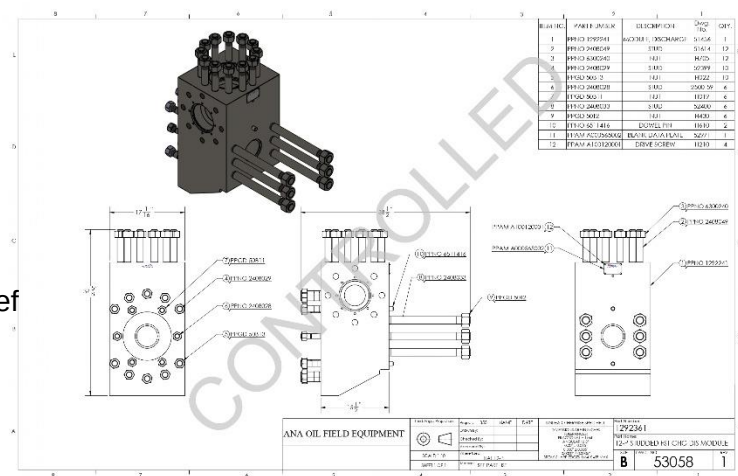
SOUTHWEST NEW STYLE MODULE for 12-P-160
SOUTHWEST for FB-1300, FB-1600
SOUTHWEST for A-1400-PT, A-1700-PT



Contact:

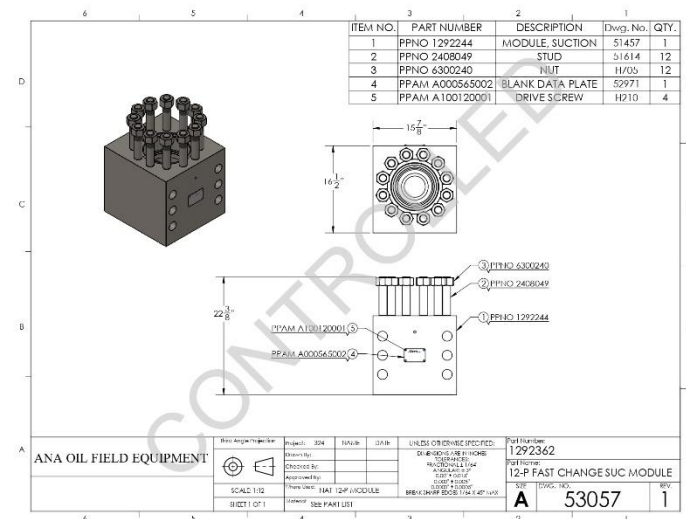
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ITEM	Descriptio.	PN.
1	FLUID END ASSY, 12-P-160 5000 PSI FAST CHANGE	PPAM 12PFEAFC
2	MODULE, STUDDED DISCHARGE, 12-P-160 5000 PSI OEM (FASTCHANGE)	PPNO 1292361
3	MODULE, STUDDED SUCTION, 12-P-160 5000 PSI OEM (FASTCHANGE)	PPNO 1292362
4	MODULE, STUDDED SUCTION, 12-P-160 7500 PSI SOUTHWEST STYLE	PPSW 8476-26S
5	MODULE, STUDDED DISCHARGE, 12-P-160 7500 PSI SOUTHWEST STYLE	PPSW 8476-27D
6	MODULE, STUDDED SUCTION, 12-P-160 7500 PSI MISSION L STYLE	PPSW 54179900-47
7	MODULE, STUDDED DISCHARGE, 12-P-160 7500 PSI MISSION L STYLE	PPSW 54179800-47
8	BUSHING, LINER RETAINER (CLAMP TYP), 12-P-160	PPNO 1292165
9	VALVE COVER SEAL RETAINER, 12-P-160	PPNO 1292350
10	THREADED RING, VALVE COVER, 12-P-160	PPNO 1292351
11	THREADED CAP, VALVE COVER, 12-P-160	PPNO 1292352
12	GASKET, VALVE COVER, RUBBER, 12-P-160	PPNO 1540127
13	DISCHARGE SPACER, STUDDED, 12-P-160	PPNO 1292246
14	SEAL, DISCHARGE SPACER, 12-P-160	PPNO 1292258
15	CAPSCREW, DISCHARGE SPACER FLANGE, 12-P-160	PPNO 7006685
16	THREDED RETAINER, VALVE GUIDE BUSHING, 12-P-160/14-P-220	PPNO 1292140
17	BUSHING, VALVE GUIDE, URETHANE, 12-P-160	PPNO 1292141
18	SEAL, SUCTION MANIFOLD	PPNO 1540851
19	SEAL, DISCHARGE CONNECTOR/ADAPTER, 12-P-160	PPNO 2410031-437
20	SEAL, DISCHARGE CONNECTOR TO ADAPTER, 12-P-160	PPNO 2410031-433
21	DISCHARGE CONNECTOR, 12-P-160	PPNO 1292252
22	ADAPTER, DISCHARGE CONNECTOR, 12-P-160	PPNO 1292253

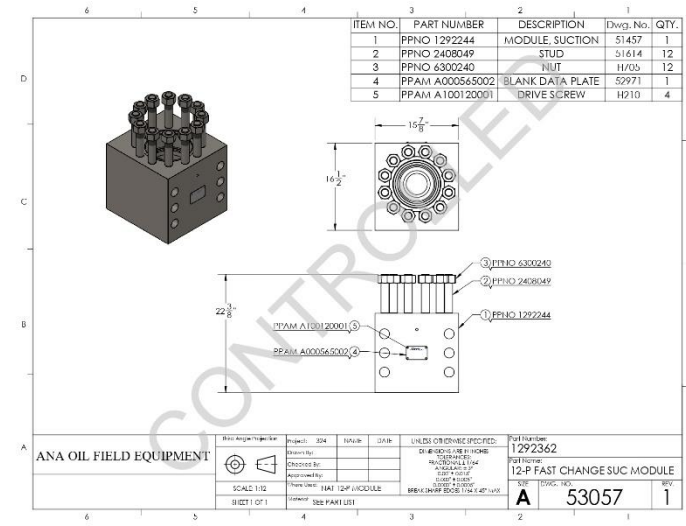
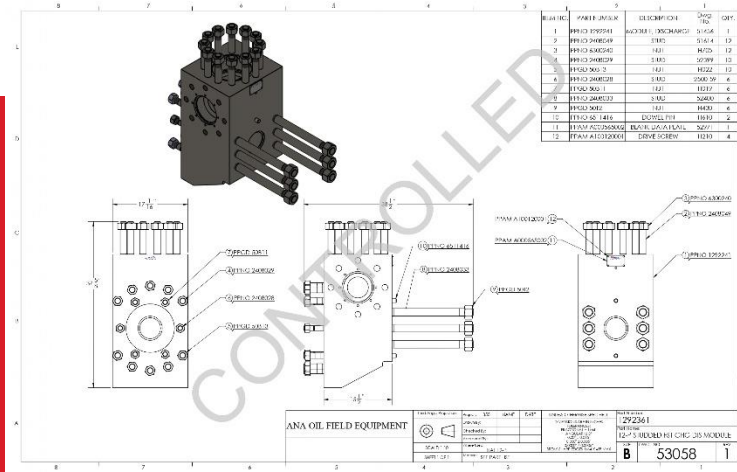


ITEM	Description	PN.
23	BACKUP RING, DISCHARGE CONNECTOR	PPNO 1292175
24	WEARPLATE, 12-P-160	PPNO 1292266
25	SEAL, MODULE/WEARPLATE, 12-P-160	PPNO 1292257
26	DOWELL PIN	PPNO 6511416
27	ROD CLAMP, 12-P-160	PPNO 1292085
28	SUB ROD, 12-P-160	PPNO 1292146
29	PISTON ROD, 12-P-160	PPNO 1292147
30	LINER, 5" CHROME-STEEL, 12-P-160	PPNO 05466500
31	LINER, 5-1/2" CHROME-STEEL, 12-P-160	PPNO 05466550
32	LINER, 6" CHROME-STEEL, 12-P-160	PPNO 05466600
33	LINER, 6-1/2" CHROME-STEEL, 12-P-160	PPNO 05466650
34	LINER, 5" CERAMIC-ZIRCONIA, 12-P-160	PPNO 07466500
35	LINER, 5-1/2" CERAMIC-ZIRCONIA, 12-P-160	PPNO 07466550
36	LINER, 6" CERAMIC-ZIRCONIA, 12-P-160	PPNO 07466600
37	LINER, 6-1/2" CERAMIC-ZIRCONIA, 12-P-160	PPNO 07466650
38	LINER GASKET, 5"	PPNO 07211011
39	LINER GASKET, 5-1/2"	PPNO 07211005
40	LINER GASKET, 6"	PPNO 07211004
41	LINER GASKET, 6-1/2"	PPNO 07211003

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ITEM	Description	PN.
1	CROSSHEAD EXTENSION ROD, 12-P-160	PPNO 1292083
2	WIPER, CROSSHEAD-EXTENSION ROD, 12-P-160	PPNO 1292182
3	LINER, CROSSHEAD, 12-P-160	PPNO 1292017
4	CROSSHEAD PIN, 12-P-160	PPNO 1292028



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ITEM	Description
NOTE WE DO NOT OFFER THE SPL SINGLE JOINT ONLY THE SJL	
E39-210-124-K	5-1/2" FH BOTTLENECK SINGLE JOINT 7.5 TON
E34568 "SJ-5	"SWIVEL SUSPENSION ASSEMBLY
E39-210-121-K	4" FULL HOLE SINGLE JOINT ELEVATOR, KET, API8C
E34568 "	SJ-5" SWIVEL SUSPENSION ASSEMBLY
E30157-121	4" MG 100 TON BOTTLE NECK ELEVATOR (REF NEW BORE CODE 106)
16-122	4 1/2" - 6" AOT DCS-R DRILL COLLAR SLIP
16-123	5 1/2" - 7" AOT DCS-R DRILL COLLAR SLIP
24-240	AOT 4 1/2" SDXL ROTARY SLIP W/4" INSERTS
24-355-F-X	SDXL SLIP 5 1/2" x 5 1/2 W/ FLEX HANDLES
23-159	4 1/2" X 4" REDUCING INSERT F/ SDXL & SDML
23-164	5 1/2" X 5 1/2" BASIC INSERT (REF 2170) F/ SDXL & SDML
14-628	DCS BUTTON 4 1/2" - 6", 3" - 4" & 6 5/8" CMSXL
14-620	DCS-R BUTTON INSERTS FOR 5 1/2"- 7"
50000675Y777	BUSHING 4" IU DP BX4-50/75
-	Manual slips-all sizes. Drill collar, drill pipe and Casing
-	Safety Clamps-All sizes
-	Master bushings- 37 1/2 national and equivalent and oilwell. Other makes are longer
-	Master bushings-27 1/2 national and Api. Other makes are longer
-	Casing bushings, national or equivalent
-	Some single joint elevators
-	Other elevators run closer

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ITEM	Description.	PN
1	MODULE, STUDDER, FB-1300/1600	6316-0357-00
2	STUD, LINER RETAINER	7507-2013-00
3	NUT, LINER RETAINER STUD	7601-0610-18
4	STUD, POWER FRAME	7507-2201-00
5	STUD, CYLINDER HEAD	7507-2210-00
6	NUT, LINER RETAINER STUD	50T137
7	STUD, DISCHARGE MANIFOLD	7507-2108-00
8	NUT, DISCHARGE MANIFOLD STUD	IN-416
9	VALVE GUIDE, LOWER, W/ BUSHING, FB-1300/1600	6316-0354-00
10	BUSHING, LOWER VALVE GUIDE, F-800/1600	6316-0096-00
11	LOCK BOLT, LOWER VALVE GUIDE, FB-1300/1600	6316-0360-00
12	ALIGNMENT RING, LOWER VALVE GUIDE, FB-1300/1600	6316-0363-00
13	GASKET, CYLINDER HEAD, FB-1300/1600	07916801
14	PLUG, CYLINDER HEAD, FB-1300/1600	6316-0364-00
15	THREADED RING, CYLINDER HEAD, FB-1300/1600	6316-0361-00
16	THREADED CAP, CYLINDER HEAD, FB-1300/1600	6316-0362-00
17	GASKET, VALVE COVER, FB-1300/1600	07916741
18	SCREW, UPPER VALVE GUIDE RETAINER	7501-0051-00
19	RETAINER, VALVE GUIDE, FB-1300/1600	6397-0603-00
20	VALVE GUIDE, UPPER, FB-1300/1600	6397-0575-00
21	THREADED CAP, VALVE COVER, FB-1300/1600	6316-0039-00
22	GASKET, LINER/WEARPLATE, FB-1300/1600	07211001
23	WEAR PLATE, FB-1300/1600	6316-0365-00HH
24	GASKET, LINER/WEARPLATE, FB-1300/1600	07211001
25	THREADED RING, LINER RETAINER, FB-1300/1600	6316-0366-00
26	LOCK NUT, LINER RETAINER, FB-1300/1600	6316-0367-20
27	O-RING, DISCHARGE MANIFOLD, FB-1300/1600	7602-1600-25
28	O-RING, SUCTION MANIFOLD, FB-1300/1600	7602-1600-61
29	MODULE, STUDDER, FB-1300/1600	6316-0357-00

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Fluid end Spare parts

MISC

	P/N
WEARPLATE	PPES 6316-0365-00HH
PISTON ROD	PPES 6316-0359-00
CLAMP	PPES 6316-0107-11

Gear End

PART NO.	DESCRIPTION
6316-0022-00	CROSSHEAD, FB-1600
6316-0687-00	SLIDE, CROSSHEAD, UPPER, FB-1600
6316-0688-00	SLIDE, CROSSHEAD, LOWER, FB-1600
6316-0028-00	ROD, CROSSHEAD EXTENSION, FB-1300/1600
7602-2131-47	SEAL, EXTENSION ROD, SINGLE LIP, FB-1300/1600
7602-2132-76	SEAL, EXTENSION ROD, DOUBLE LIP LIP, FB-1300/1600

- All items are manufactured in US.

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ITEM	Description
1	MODULE, STUDDER, FD-1300/1600
2	STUD, LINER RETAINER
3	NUT, LINER RETAINER STUD
4	STUD, POWER FRAME
5	STUD, CYLINDER HEAD
6	NUT, LINER RETAINER STUD
7	STUD, DISCHARGE MANIFOLD
8	NUT, DISCHARGE MANIFOLD STUD
9	VALVE GUIDE, LOWER, W/ BUSHING, FD-1300/1600
10	BUSHING, LOWER VALVE GUIDE, F-800/1600
11	LOCK BOLT, LOWER VALVE GUIDE, FD-1300/1600
12	ALIGNMENT RING, LOWER VALVE GUIDE, FD-1300/1600
13	GASKET, CYLINDER HEAD, FD-1300/1600
14	PLUG, CYLINDER HEAD, FD-1300/1600
15	THREADED RING, CYLINDER HEAD, FD-1300/1600
16	THREADED CAP, CYLINDER HEAD, FD-1300/1600
17	GASKET, VALVE COVER, FD-1300/1600
18	SCREW, UPPER VALVE GUIDE RETAINER
19	RETAINER, VALVE GUIDE, FD-1300/1600
20	VALVE GUIDE, UPPER, FD-1300/1600
21	THREADED CAP, VALVE COVER, FD-1300/1600
22	GASKET, LINER/WEARPLATE, FD-1300/1600
23	WEAR PLATE, FD-1300/1600
24	GASKET, LINER/WEARPLATE, FD-1300/1600
25	THREADED RING, LINER RETAINER, FD-1300/1600
26	LOCK NUT, LINER RETAINER, FD-1300/1600
27	O-RING, DISCHARGE MANIFOLD, FD-1300/1600
28	O-RING, SUCTION MANIFOLD, FD-1300/1600

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Fluid end Spare parts

Gear End

PART NO.	DESCRIPTION
1	CROSSHEAD, FB-1600
2	SLIDE, CROSSHEAD, UPPER, FB-1600
3	SLIDE, CROSSHEAD, LOWER, FB-1600
4	ROD, CROSSHEAD EXTENSION, FB-1300/1600
5	SEAL, EXTENSION ROD, SINGLE LIP, FB-1300/1600
6	SEAL, EXTENSION ROD, DOUBLE LIP LIP, FB-1300/1600

Emsco FB13/1600 Module Exploded View

- All items are manufactured in US.

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ITEM	DESCRIPTION.	PN
1	FLUID END MODULE STUDDED (INCL ITEM 2-9)	PPGD 202PZL029B
2	FLUID END MODULE UNSTUDED PZ10/11	PPGD 202PZL029
3	STUD (LONG) CYLINDER TO FRAME	PPGD 201PZL110
4	STUD (SHORT) CYLINDER TO FRAME	PPGD 205PZL110
5	NUT	PPGD 50B36
6	STUD, VALVE COVER RING TO FRAME	PPGD 204PZL110
7	NUT	PPGD 50B34
8	STUD, CYLINDER TO DISCHARGE MANIFOLD	PPGD 202PZL110
9	NUT	PPGD 50B34
10	RING, THREADED VALVE COVER PZ10/11	PPGD 200PZL387
11	VALVE COVER GASKET, HEAD GASKET	PPGD 204PZL715
12	BUSHING, SUCTION&DISCHARGE	PPGD 2007674
13	PLATE, VALVE COVER	PPGD 200PZL147
14	LINER GASKET	PPGD 25AT37
15	LOCK COVER	PPGD 301PZL587
16	VALVE GUIDE PLATE	PPGD 2011701
17	GUIDE, VALVE	PPGD 200PZL483
18	LOCK WASHER	PPGD 95W2
19	SCREW	PPGD 655EE06S
20	GASKET, DISCHARGE MANIFOLD	PPGD 25AL35
21	GASKET, SUCTION MANIFOLD	PPGD 25G41
22	CLAMP, LINER	PPGD 200PZL455
23	ASSY, VALVE GUIDE	PPGD 200PZL483A

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APPLICATIONS

- Environments with high discharge pressure and heavy mud flow

BENEFITS

- Increases uptime and operational efficiency through decreased pitting, wear, and probability of leaks
- Streamlines transportation through reduced footprint, height, and weight
- Provides easy access for maintenance and inspection

FEATURES

- Fabricated steel construction and high-strength power frame with rear-mounted drive motor
- Balanced, forged crankshaft for minimal vibration and increased service life
- Premium roller bearings constructed using advanced materials that offer up to seven times the service life in contaminated lubricants
- Replaceable crosshead guides in frame
- Pressurized oil lubrication system with easily accessible external lines for simplified maintenance
- Increased oil filtration with magnetic suction strainer and dual filter at pressure line
- Optional cooling system equipped with water or air heat exchanger
- Interchangeable fluid end modules
- Closed-loop pressurized freshwater liner wash system
- Suction manifold equipped with front or side inlet connections
- Discharge piping connected from either side
- Easily accessible, fully open piston and liner chambers



CMP-1600 Mud pump

The **CMP-1600** mud pump is a single-acting reciprocating triplex mud pump built to accommodate discharge pressure up to 7,500 psi and fluid flow up to 826 galUS/min [3,127 L/min]. Building upon the success of the WH-Series 1612 onshore mud pump, this 1,600-hp mud pump was designed with increased reliability, improved maintainability, and reduced weight and footprint.

Advanced pump reliability

The CMP-1600 mud pump uses several advancements for improved pump reliability. The main bearings are constructed with advanced materials and treatments that can improve bearing life several times over compared with previous-generation pumps. To increase drive strength, the CMP-1600 mud pump provides carburized and hardened gear tooth surfaces that resist pitting and wear. In addition, robust tube and shell heat exchangers are used to reduce the probability of leaks and downtime. The CMP-1600 mud pump is engineered to produce high flow rates, even at low operating speeds, which reduces stress and wear of components. The long stroke design reduces the number of load reversals in critical components and increases the life of fluid end parts.

Enhanced serviceability

The strategic placement and improved serviceability of the mud pump's critical components enable much safer and easier access during maintenance and inspection. The two-piece, quick-release piston rod enables piston removal without disturbing the liner, helping to minimize downtime when replacing fluid parts. For added simplicity, all sensors, monitoring devices, and optional instruments are wired to a single junction box—eliminating the time-consuming challenges associated with individual wiring.

Integrated frame

A redesigned frame delivers superior strength and rigidity with 15% less weight compared with previous models. Moreover, the skid of the CMP-1600 pump is now integrated into the structural frame to reduce its footprint, height, and weight—enabling easier transportation.

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CMP-1600 mud pump for land drilling.

CMP-1600

CMP-1600 Mud Pump Continuous-Duty Performance Data † ‡ §

1,600-hp, 7,500-psi, 12-in [305-mm] stroke

Pump speed, stroke/min	120	110	100	90	80	70	60	50	40	30
Max. input power, hp	1,600	1,326	1,205	1,085	964	844	723	603	482	362

Liner size, in [mm]
Max. discharge pressure, psi [MPa]
Volume per stroke, galUS [L]

Output, galUS/min [L/min]

4.50 [114]	7,500 [52]	2.48 [9.38]	297 [1,124]	273 [1,033]	248 [939]	223 [844]	198 [750]	174 [659]	149 [564]	124 [469]	99 [375]	74 [280]
5 [127]	6,722 [46]	3.06 [11.58]	367 [1,389]	337 [1,276]	306 [1,158]	275 [1,041]	245 [927]	214 [810]	184 [697]	153 [579]	122 [462]	92 [348]
5.50 [140]	5,555 [38]	3.70 [14.01]	444 [1,681]	407 [1,541]	370 [1,401]	333 [1,261]	296 [1,120]	259 [980]	222 [840]	185 [700]	148 [560]	111 [420]
6 [152]	4,668 [32]	4.41 [16.69]	529 [2,002]	485 [1,836]	441 [1,669]	397 [1,503]	353 [1,336]	308 [1,166]	264 [999]	220 [833]	176 [666]	132 [500]
6.50 [165]	3,977 [27]	5.17 [19.57]	621 [2,351]	569 [2,154]	517 [1,957]	465 [1,760]	414 [1,567]	362 [1,370]	310 [1,173]	259 [980]	207 [784]	155 [587]
7 [178]	3,429 [24]	6.00 [22.71]	720 [2,726]	660 [2,498]	600 [2,271]	540 [2,044]	480 [1,817]	420 [1,590]	360 [1,363]	300 [1,136]	240 [909]	180 [681]
7.50 [191]	2,987 [21]	6.89 [26.08]	826 [3,127]	757 [2,865]	688 [2,604]	620 [2,347]	551 [2,086]	482 [1,825]	413 [1,563]	344 [1,302]	275 [1,041]	207 [784]

† Based on 90% mechanical efficiency.

‡ Based on 100% volumetric efficiency.

§ Note: All specifications are subject to change. Information important to a particular application should be verified by Cameron.

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FEATURES

- Fabricated steel construction and high-strength power frame with rear-mounted drive motor
- Balanced, forged crankshaft for minimal vibration and increased service life
- Premium roller bearings constructed using advanced materials that offer up to seven times the service life in contaminated lubricants
- Replaceable crosshead guides in frame
- Pressurized oil lubrication system with easily accessible external lines for simplified maintenance
- Increased oil filtration with magnetic suction strainer and dual filter at pressure line
- Optional cooling system equipped with water or air heat exchanger
- Interchangeable fluid end modules
- Closed-loop pressurized freshwater liner wash system
- Suction manifold equipped with front or side inlet connections
- Discharge piping connected from either side
- Easily accessible, fully open piston and liner chambers

CMP-2000 Mud pump

The **CMP-2000** mud pump is a single-acting reciprocating triplex mud pump built to accommodate discharge pressure up to 7,500 psi and fluid flow up to 964 galUS/min [3,649 L/min]. This 2,000-hp mud pump was designed with increased reliability, improved maintainability, and reduced weight and footprint.

Advanced pump reliability

The CMP-2000 mud pump uses several advancements for improved pump reliability. The main bearings are constructed with advanced materials and treatments that can improve bearing life several times over compared with previous-generation pumps. To increase drive strength, the CMP-2000 mud pump provides carburized and hardened gear tooth surfaces that resist pitting and wear. In addition, robust tube and shell heat exchangers are used to reduce the probability of leaks and downtime. The CMP-2000 mud pump is engineered to produce high flow rates, even at low operating speeds, which reduces stress and wear of components. The long stroke design reduces the number of load reversals in critical components and increases the life of fluid end parts.

Enhanced serviceability

The strategic placement and improved serviceability of the mud pump's critical components makes access for maintenance and inspections much safer and easier. The two-piece, quick-release piston rod enables piston removal without disturbing the liner, helping to minimize downtime when replacing fluid parts. For added simplicity, all sensors, monitoring devices, and optional instruments are wired to a single junction box—eliminating the time-consuming challenges associated with individual wiring.

Integrated frame

A redesigned frame delivers superior strength and rigidity with significantly less weight compared with previous models. Moreover, the skid of the CMP-2000 pump is now integrated into the structural frame to reduce its footprint, height, and weight—enabling easier transportation.

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CMP-2000 mud pump for offshore drilling.

CMP-2000

CMP-2000 Mud Pump Continuous-Duty Performance Data † ‡ §

1,600-hp, 7,500-psi, 12-in [305-mm] stroke

Pump speed, stroke/min	120	110	100	90	80	70	60	50	40	30
Max. input power, hp	1,600	1,326	1,205	1,085	964	844	723	603	482	362

Liner size, in [mm]	Max. discharge pressure, psi [MPa]	Volume per stroke, galUS [L]	Output, galUS/min [L/min]									
4.50 [114]	7,500 [52]	2.48 [9.38]	297 [1,124]	273 [1,033]	248 [939]	223 [844]	198 [750]	174 [659]	149 [564]	124 [469]	99 [375]	74 [280]
5 [127]	6,722 [46]	3.06 [11.58]	367 [1,389]	337 [1,276]	306 [1,158]	275 [1,041]	245 [927]	214 [810]	184 [697]	153 [579]	122 [462]	92 [348]
5.50 [140]	5,555 [38]	3.70 [14.01]	444 [1,681]	407 [1,541]	370 [1,401]	333 [1,261]	296 [1,120]	259 [980]	222 [840]	185 [700]	148 [560]	111 [420]
6 [152]	4,668 [32]	4.41 [16.69]	529 [2,002]	485 [1,836]	441 [1,669]	397 [1,503]	353 [1,336]	308 [1,166]	264 [999]	220 [833]	176 [666]	132 [500]
6.50 [165]	3,977 [27]	5.17 [19.57]	621 [2,351]	569 [2,154]	517 [1,957]	465 [1,760]	414 [1,567]	362 [1,370]	310 [1,173]	259 [980]	207 [784]	155 [587]
7 [178]	3,429 [24]	6.00 [22.71]	720 [2,726]	660 [2,498]	600 [2,271]	540 [2,044]	480 [1,817]	420 [1,590]	360 [1,363]	300 [1,136]	240 [909]	180 [681]
7.50 [191]	2,987 [21]	6.89 [26.08]	826 [3,127]	757 [2,865]	688 [2,604]	620 [2,347]	551 [2,086]	482 [1,825]	413 [1,563]	344 [1,302]	275 [1,041]	207 [784]

† Based on 90% mechanical efficiency.

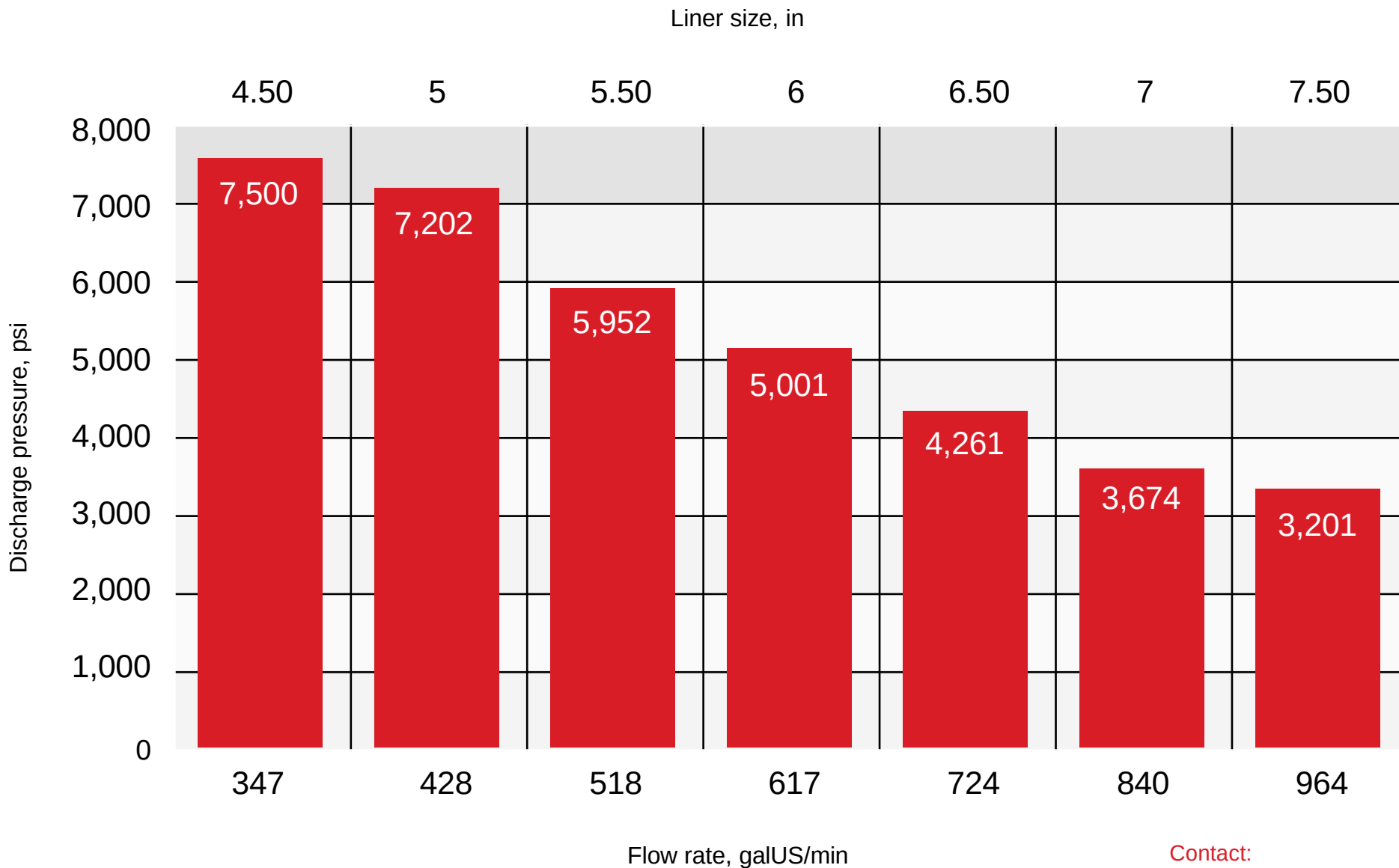
‡ Based on 100% volumetric efficiency.

§ Note: All specifications are subject to change. Information important to a particular application should be verified by Cameron.

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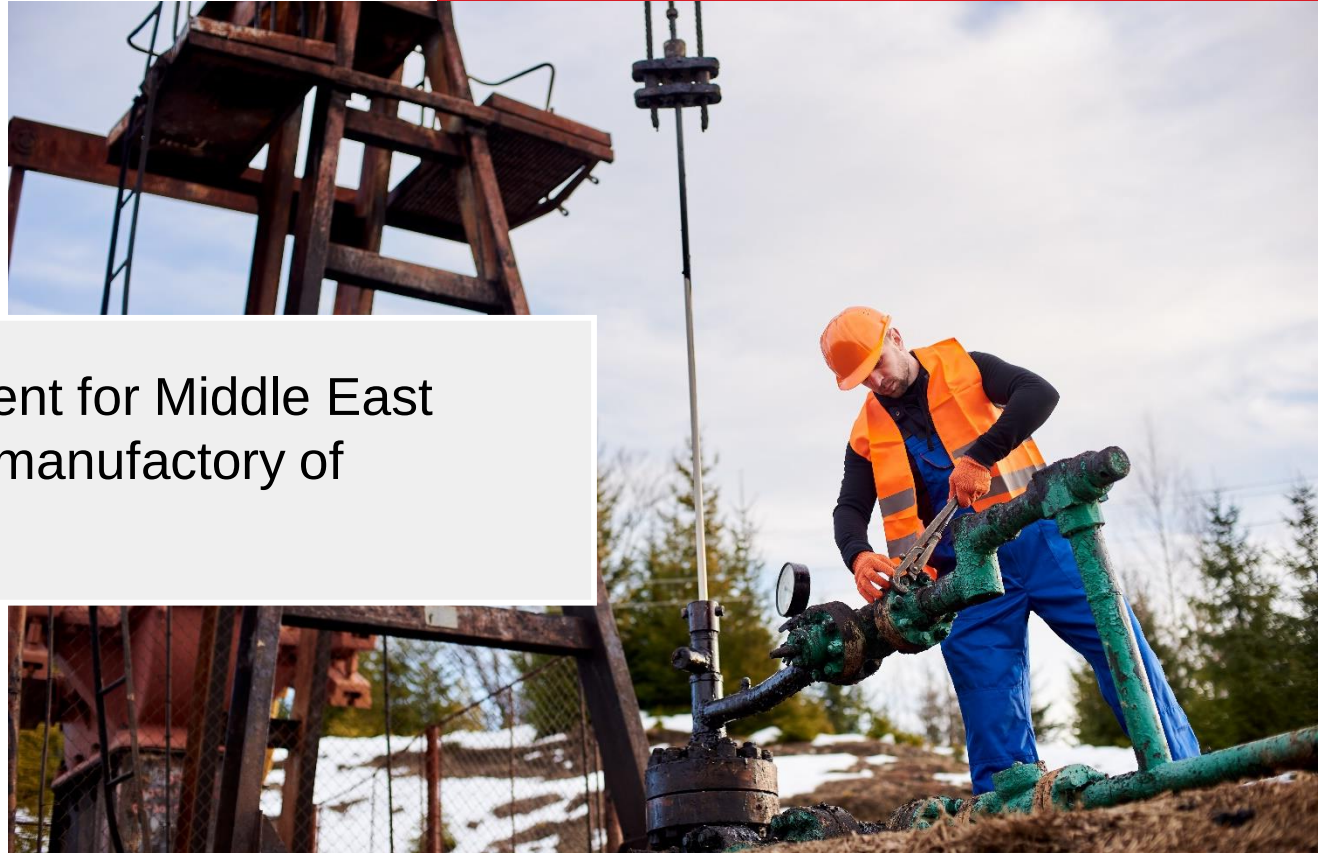


Performance curve for the CMP 2000 mud pump.

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Collaborations

A.N.A is the exclusive agent for Middle East and Azerbaijan for many manufactory of drilling equipment



Scope of Work in Mud Pumps Projects



Supplying certified high quality mud pumps and complete assemblies



Supplying premium quality spare parts (Pistons , Valves , Seals , Gaskets , ... etc.)



Offering technical consultancy for spare parts compatibility



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Support new, built and reactivation jack up rigs and offshore units



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Engages in the export of the manufactured drilling, production materials and equipment to the world and works as the main supplier of global oil and gas projects.

A.N.A values the cultivation of core competence. It has formed relatively strong scale & strength and comparative advantages through continuous efforts. It possesses market development capacity with diversified marketing approaches. Focusing on the requirements of the customers.

Minimize Risk! Add value and Saving Cost!

- ✓ Business type
- ✓ Procurement Management
- ✓ Supply Chain Professional Sourcing
- ✓ Materials Management
- ✓ Inspection services
- ✓ Mission
- ✓ Provide the best possible products
- ✓ Offer those products at the most competitive prices
- ✓ Offer the best service available

Global business and service for oil & gas field !!!



- A different business culture
- Communication issues
- Potentially unreliable and untrustworthy vendors
- Technological differences
- Distance
- Poor customer service and support
- Fluctuating currency
- Changing import duties

A.N.A OIL field Advantage...

Experience: Over 15 years in oil & gas drilling industries, and special teams in Quality assurance and Logistic Control.

Communication: Communicate Smooth for technical and business with high

Network: Mills authorization directly from top management for sales.

Strategical partners: Quality Inspection Agent and Logistic company.

Marketing: Destination business partner on-time support for your needs and wants.

A.N.A OIL Field Competitiveness...



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On behalf the interest of buyer. Extremely important mind set to our business model that only our client success to make A.N.A success.

Risk minimize. Monitoring the material, production, send inspection, and record all details to under specification.

Cost Saving. Less administration cost and third party inspection cost from buyer.

Because A.N.A do all for you.

Better negotiating. Better knowledge in market price from different mills.

Direct communicate. Go direct to Owner or PIC in any case of problems need to solve.

Time Management. From Production, Inspection, shipping, Bank documentation for smooth delivery process.

Technical specialist. Support you regarding engineering decisions

Sourcing. Identifying and qualifying suppliers

Quality Control: Ensuring quality control and quality assurance with in-house and Third Party.

Logistics management. A.N.A manage the best suitable shipping method importing cargo into destination point.



SGS - TPI report



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Strategical Partner - Quality Control

Inspection team will monitor the work process of the products according to

API standard or per clients' request.

Inspection experts and inspectors are from OCTG, NDT, Petroleum Equipment background and they are certified such as NDT level II and threading inspection certificates.

PRODUCTS – we can supply are dealing with...

Products are manufacturing per API specification, industrial standard or customer special request.

- **Steel Pipe:** Seamless Casing & Tubing, ERW casing & Line pipes, Hollow Pipes
- **Valve:** Ball Valve, Globe Valve, Gate valve, Check valve
- **Drilling Tools & accessories:** drill collar, drill pipe, stabilizer, subs,
- **Drilling bits:** PDC bits, tricone bits
- **Mud pump:** complete assemble and spare parts all brands
- **Drwowrk**
- **Cat spare parts**
- **Safety equipment all PPE**
- **Geological Equipment:** Coring tools and coring bits.
- **Misc:** FRP pipe, Poly pipe, Rig, mud pump, metal bar, motor, hose, Protector, etc.

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MARINE & SAFETY EQUIPMENT SUPPLIES AND SAFETY CONSULTATIONS



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MARINE & SAFETY EQUIPMENT SUPPLIES

FIRE EXTINGUISHER

Carbon Dioxide
Dry Powder
Water
Trolley Type
Fire Hose Reel
Fire Blanket



EMERGENCY EYE / FACE WASH

Eye/Face wash and shower

Portable Eye Wash

ARCO Eyewash Station

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MARINE & SAFETY EQUIPMENT SUPPLIES



BREATHING APPARATUS



GAS MONITORS

MARINE & SAFETY EQUIPMENT SUPPLIES

PPE

Head Protection

Eye & Face Protection

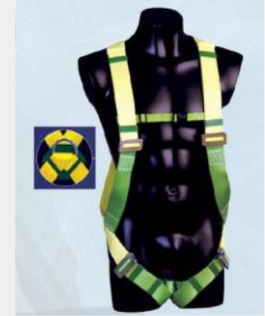
Ear Protection

Respiratory Protection

Hand Protection

Protective Clothing

Footwear



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SAFETY CONSULTATIONS



**Drop
Object survey**



Safety Case



**HSE Rig
Inspection**



HSE Audits



**On-Job
training
& awareness**

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ITEM	Description	PN.
1	MODULE, STUDDED DISCHARGE, 14-P-220 OEM	PPNO 1295601
2	MODULE, STUDDED SUCTION, 14-P-220 OEM	PPNO 1295604
3	MODULE, STUDDED SUCTION, 14-P-220 SOUTHWEST STYLE	PPSW 8482-26S
4	MODULE, STUDDED DISCHARGE, 14-P-220 SOUTHWEST STYLE	PPSW 8482-27D
5	DISCHARGE SPACER, STUDDED, 14-P-220 OEM	PPNO 1295262
6	SEAL, DISCHARGE SPACER FLANGE	PPNO 1295258
7	CAPSCREW, DISCHARGE SPAER FLANGE	PPNO 7006609
8	THREADED RING, VALVE COVER, 14-P-220 OEM FC	PPNO 1295176
9	THREADED CAP, VALVE COVER, 14-P-220 OEM FC	PPNO 1295172
10	SEAL RETAINER, VALVE COVER, 14-P-220 OEM	PPNO 1295174
11	GASKET, VALVE COVER, 14-P-220 OEM	PPNO 1540163
12	HOLDER, VALVE GUIDE, 14-P-220 OEM	PPNO 1292140
13	INSERT, VALVE GUIDE, URETHANE	PPNO 1292141
14	GASKET, SUCTION MANIFOLD, 14-P-220	PPNO 1540021
16	SEAL, DISCHARGE CONNECTOR/ADAPTOR	PPNO 2410031-440
17	ADAPTER, DISCHARGE CONNECTOR, 14-P-220 OEM	PPNO 1295253
18	SEAL, DISCHARGE CONNECTOR TO DISCHARGE ADAPTER	PPNO 2410031-438
19	CONNECTOR, DISCHARGE, 14-P-220 OEM	PPNO 1295252
20	BACKUP RING, DISCHARGE CONNECTOR, 14-P-220 OEM	PPNO 1295175
21	DOWELL PIN	PPNO 6511416
22	WEARPLATE, 14-P-220 OEM	PPNO 1295266
23	BUSHING, LINER RETAINER, 14-P-220 (CLAMP TYPE)	PPNO 1295165

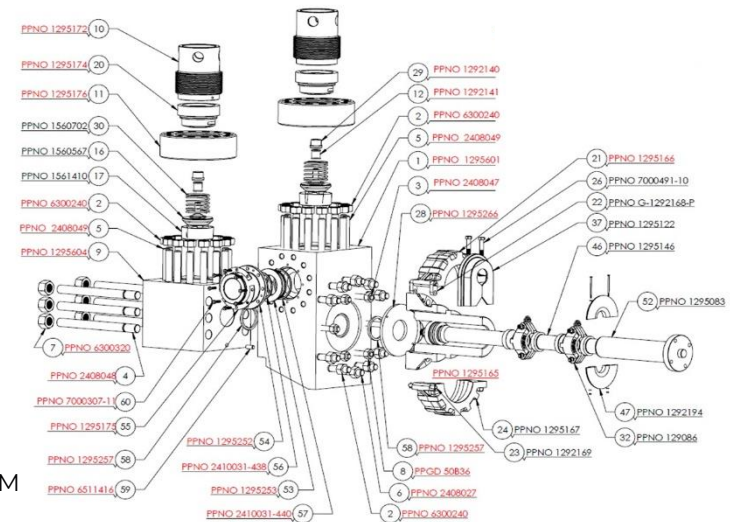
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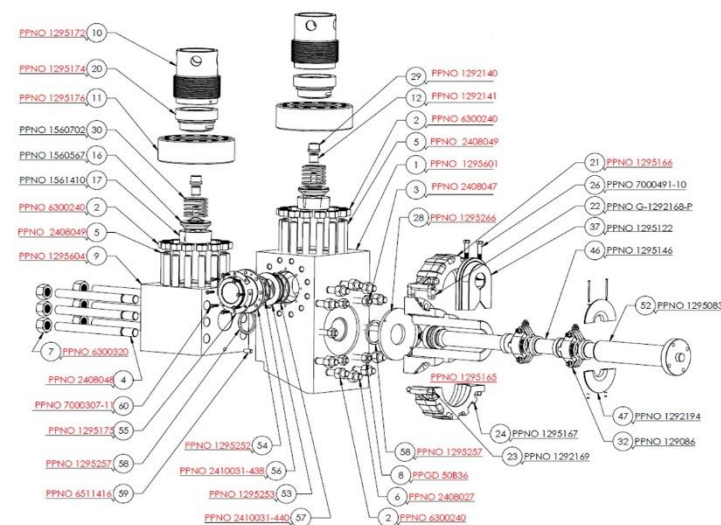
ITEM	Description	PN.
24	CLAMP, LINER RETAINER, 14-P-220	PPNO 1295166
25	SEAL, MODULE/WEARPLATE, 14-P-220	PPNO 1295257
26	SEAT, FULL-OPEN, API-8 (MOD 1" TPF)	PPNO 9702751
27	VALVE, FULL-OPEN, URETHANE INSERT, API-8	PPNO 9700382
28	SPRING, VALVE, 14-P-220	PPNO 055413256
29	RING GASKET, BX-169 SS	PPNO 6907339-S
30	LINER, 5-1/2" CERAMIC-ZIRCONIA, 14-P-220	PPNO 07545550
31	LINER, 6" CERAMIC-ZIRCONIA, 14-P-220	PPNO 07545600
32	LINER, 6-1/2" CERAMIC-ZIRCONIA, 14-P-220	PPNO 07545650
33	LINER GASKET, 5"	PPNO 07211011
34	LINER GASKET, 5-1/2"	PPNO 07211005
35	LINER GASKET, 6"	PPNO 07211004
36	LINER GASKET, 6-1/2"	PPNO 07211003
37	PULLER HEAD, FULL-OPEN, API-8	PPNO 8402256
38	ROD, CROSSHEAD EXTENSION, 14-P-220	PPNO 1295083
39	ROD, PISTON-SUB, 14-P-220	PPNO 1295146
40	ROD, PISTON, 14-P-220	PPNO 1295147
41	COMPLETE FLUID END ASSY, 14-P-220 OEM	



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ITEM	Description	PN.
1	ROD, CROSSHEAD EXTENSION, 14-P-220	PPNO 1295083
2	WIPER, CROSSHEAD-EXTENSION ROD, 14-P-220	PPNO 1295182
3	LINER, CROSSHEAD, 14-P-220	PPNO 1295017
4	SNAP RING, RETAINER, 14-P-220	PPNO 1295401



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