

Mechanical Pumping Units

Artificial Lift Division



INDEQUIPOS has a wide catalog of products for different methods of Artificial Lift , adapting to conditions of the oil reservoir and focused on the customer needs.

We supply integrated Artificial Lift Systems of high quality, performance and efficiency for the following methods:

Benefits

- High efficiency system
- Optimization performance controllers
- Reduced costs in services and repairs
- Production flexibility and adjustment by means of the variation of the stroke length and piston speed

Mechanical Pumps (BPU)

The pumping unit is a mechanism developed for transmitting alternative movement to the pump, converting the continuous circular movement of the motor in an alternative oscillating movement applied to the shaft of the system.



Applications

- These apply to all well types, including ones with high rates of sand, gas and viscous oils
- Wide range of fluid levels
- Low to Medium capacity of volume displacement
- All the types of wells, including horizontal, deviated, directional and vertical in all of their applications

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Types of Mechanical Pumping Units



CONVENTIONAL PUMPING UNITS

MODEL	STROKE LENGHT (in)	WALKING BEAM	CRANK
57D-76-82	42,33,23	W16x36	3644BA
57D-89-42	42,33,24	W16x37	3644BA
57D-95-48	48,37,25	W16x45	4246BA
57D-109-48	48,37,26	W16x45	4246BA
57D-76-54	54,41,28	W16x36	4246BA
80D-109-48	48,37,25	W16x45	4246BA
80D-133-48	48,40,32	W16x57	4850BA
80D-119-54	54,45,36	W18x60	4850BA
80D-133-54	54,45,37	W18x60	4850BA
80D-119-64	64,53,42	W18x60	4850BA
114D-119-86	86,72,59	W24x84	6468CA
114D-133-54	54,45,36	W18x60	4850BA
114D-173-54	54,44,34	W18x71	5456CA
114D-143-64	64,52,40	W18x71	5456CA
114D-143-74	74,62,51	W24x84	6468CA
114D-173-64	64,54,44	W24x84	6468CA
160D-143-64	64,52,40	W18x71	5456CA
160D-143-74	74,62,52	W24x84	6468CA
160D-173-64	64,54,44	W24x84	6468CA
160D-200-74	74,64,54	W24x94	7478CA
160D-173-86	86,74,62	W24x104	7478CA
160D-173-100	100,86,73	W24x104	7478CA
228D-173-74	74,62,52	W24x84	6468CA
228D-200-74	74,64,54	W24x94	7478CA
228D-213-86	86,74,62	W24x104	7478CA
228D-246-86	86,74,61	W24x117	8495CA
228D-173-100	100,86,73	W24x104	7478CA
228D-213-100	100,86,73	W24x117	7478CA
228D-213-120	120,102,85	W24x146	8495CA
320D-246-74	74,64,54	W24x94	7478CA
320D-213-86	86,74,62	W24x104	7478CA
320D-246-86	86,74,61	W24x117	8495CA
320D-256-100	100,85,70	W27x146	8495CA
320D-305-100	100,85,70	W27x146	8495CA
320D-213-120	120,102,85	W24x146	8495CA
320D-256-120	120,102,85	W24x146	8495CA
320D-256-144	144,124,106	W30x173	94110CA
456D-256-100	100,85,70	W27x146	8495CA
456D-213-120	120,102,85	W24x146	8495CA
456D-256-120	120,102,85	W24x146	8495CA
456D-305-120	120,102,85	W24x146	8495CA
456D-365-120	120,105,90	W30x173	94110CA
456D-256-144	144,124,106	W30x173	94110CA
456D-305-144	144,124,106	W30x173	94110CA
456D-305-168	168,145,124	W33X201	94110CA
640D-305-120	120,102,85	W24x146	8495CA
640D-365-120	120,105,90	W30x173	94110CA
640D-256-144	144,124,106	W30x173	94110CA
640D-305-144	144,124,106	W30x173	94110CA
640D-365-144	144,124,107	W33x201	94110CA
640D-305-168	168,145,124	W33X201	94110CA
912D-365-144	144,124,108	W33x202	94110CA
912D-427-144	144,124,109	W33x203	94110CA
912D-305-168	168,145,124	W33x201	94110CA
912D-365-168	168,145,124	W33x221	94110CA
912D-305-192	192,165,139,113	W33x201	106110CA
912D-365-192	192,165,139,113	W33x221	106110CA

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Accessories for Rod Pumping Units

- Rotors for the Pumping Rod String
- Shock Absorbers for the Pumping Rod String
- Lubricating Devices for the Pumping Rod
- Stuffing Box, Production Tee, BOP Valve
- Centering Device for the Pumping Rod String

Solutions:

We solve problems that Conventional Pumping Systems world develop such as:

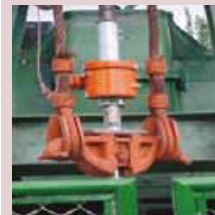
- Frequent rod part
- Excessive wear and oil spills in the Stuffing Box
- Wear due to friction in Joints, Rods, and Pipes
- Gas Lock
- Necessity of selling or burning gas at the well head
- Production pipe obstruction due to the formation of sludge and paraffin



*Stuffing Box,
Production Tee,
BOP Valve
and APA*



Lubricator



*Rotors for the
Pumping Rod String*

Advantages of the Compact Tee with BOP

- Production Tee, BOP, and Stuffing Box in a single product
- Machined interior walls guarantee optimum seals
- Allows lifting the Rod String without disassembling the bridge
- Provided with auto lubricating seals
- Sealed Stuffing Box housing
- Tightening of the Stuffing Box with independent bolts
- Lower final height of the assembly optimizing the Pumping Stroke

The Compact-Tee with BOP is installed at the well head by means of a male API 2-7/8" EUE thread, and has two female outlets with API 2" LP threads, one with a reduction to 1/2"NPT.

The seal are tightened with two bolts that are found on the sides of the Stuffing Box.

It has a seal on the superior part of the top that does not allow the fluid go into the rods of 1-1/4" and 1-1/2".

This model of BOP comes with a female 1"BSP discharge for the connection of a leak detector (Stopleak II).

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Downhole Pumps for Rod Pumping



Our special rod pumps can be used in various types of wells in an efficient manner, such as wells with sand, gas, high viscosity crude, deviated wells, and others. These have obtained excellent results in many oilfields worldwide.

We are in capacity to produce all kind of special pumps and their parts according to the needs of the wells and the requirements of the clients.

Using state of the art technologies that are in agreement with protection of the environment, we can provide for example barrel surface coating as long as 9 meters, rods and pipes up to 10 meters.

All of our pistons are manufactured with stainless steel and are electro plated, nickel plated, or other surface coated with other materials.

All the ball seat assemblies are manufactured in stainless steel, ceramic, carbide, and other materials.

MODEL	NOMINAL DIAMETER mm (in)	LONG. PISTON	STROKE	PUMP SHUT OFF m3/d	TUBING	ROD (in)
20 -125 RHAC/M				1.14	2 3/8	3/4
20 -150 RHAC/M	32 (1.25)			1.64	2 7/8	3/4
25 -175 RHAC/M	38 (1.50)			2.24	2 7/8	3/4
30 -225 RHAC/M	44 (1.75)			3.69	3 1/2	3/4
20 -125 RHBC/M	57 (2.25)			1.14	2 3/8	3/4
20 -150 RHBC/M	32 (1.25)	m (ft)	(m)	1.64	2 7/8	3/4
25 -175 RHBC/M	38 (1.50)	1.2 ~ 1.8	≤ 7.5	2.24	2 7/8	3/4
30 -225 RHBC/M	44 (1.75)			3.69	3 1/2	3/4
20 -125 RHTC/M	57 (2.25)			1.14	2 3/8	3/4
20 -150 RHTC/M	32 (1.25)			1.64	2 7/8	3/4
25 -175 RHTC/M	38 (1.50)			2.24	2 7/8	3/4
30 -225 RHTC/M	44 (1.75)			3.69	3 1/2	3/4