

**ARTIFICIAL LIFT**



**PRODUCTION OPTIMIZATION**

# ELECTRICAL SUBMERSIBLE PUMPS

## MOTORS

- 375 SERIES (25.5 TO 127.5 HP)
- 456 SERIES (10 TO 490 HP)
- 540 SERIES (20 TO 775 HP)

## PUMPS

- 338 SERIES (270 TO 1920 BPD)
- 400 SERIES (210 TO 7500 BPD)
- 540 SERIES (1250 TO 12000 BPD)

## PROTECTORS (ALL STANDARD HIGH LOAD)

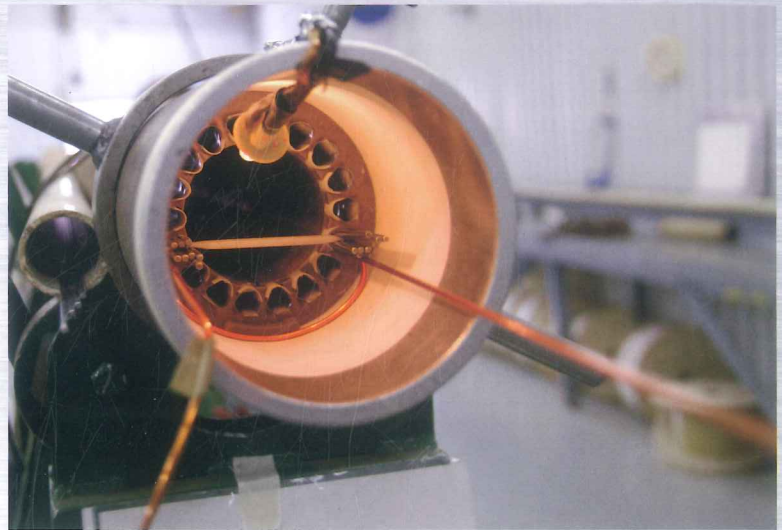
- LABYRINTH
- BAG-TYPE
- MODULAR (DBSL)

## CABLE

- FULL RANGE OF DOWNHOLE CABLE AVAILABLE

## INTAKES / ROTARY GAS SEPARATORS

- 338, 400, AND 500 SERIES AVAILABLE



### YOU SHOULD KNOW:

- PUMPS BUILT TO ORDER TO MEET WELL SPECIFICATIONS
- EVERY ESP IS TESTED IN THE SPI VERTICAL TEST WELL
- MOTORS ARE HAND-WOUND IN CUSHING, OKLAHOMA



# ROD PUMP SERVICES

## BEAM PUMPING UNITS

- FULL INVENTORY OF RE-CONDITIONED BEAM PUMPING UNITS
- SIZES RANGING FROM API 50-89-64 TO 1280-427-192 IN STOCK
- UNITS INCLUDE 12-MONTH SPI WARRANTY
- ELECTRIC MOTORS AND GAS ENGINE PRIME MOVERS AVAILABLE
- PUMP-OFF CONTROL (POC) AND DRIVES (VSD) AVAILABLE



## HYDRAULIC PUMPING UNITS

- STROKE LENGTHS 168", 240" AND 300"
- PEAK POLISH ROD LOADS UP TO 42,700
- ELECTRIC MOTORS AND GAS ENGINE PRIME MOVERS AVAILABLE
- UNIT AUTOMATION INCLUDES FULL PUMP-OFF CONTROL



# ARTIFICIAL LIFT SERVICES

## AUTOMATION

- SALES, SERVICE, AND INSTALLATION FOR VSDS AND POCs
- REPAIR AND RECONDITIONED AUTOMATION DEVICES
- SCADA MONITORING

## FABRICATION SHOP

- 70,000 SQFT SHOP SPACE
- 350 TON PRESS BRAKE
- 10' X 24' PLASMA TABLE - 1.25" CAPACITY
- 30 TON BRIDGE CRANE (4) - 24' HOOK HEIGHT
- PAINT AND SAND BLASTING
- BEAM PUMPING UNIT REPAIR
- ENGINE REPAIR

## ARROW GAS ENGINES:

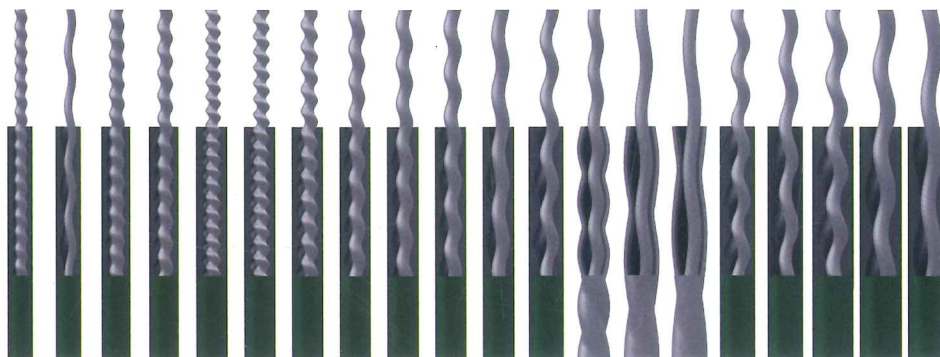
- C SERIES - SINGLE PISTON
- 5 TO 36 BHP
- A SERIES - MULTI-CYLINDER
- 24.5 TO 151 BHP
- 12-MONTH PARTS AND SERVICE WARRANTY
- NEW AND REBUILT ENGINES



**ARTEMIS**

PC Pump Systems

## PROGRESSING CAVITY PUMPS



|                  |        |     |      |      |        |     |     |     |     |     |     |     |           |           |           |       |        |      |      |      |
|------------------|--------|-----|------|------|--------|-----|-----|-----|-----|-----|-----|-----|-----------|-----------|-----------|-------|--------|------|------|------|
| M3/day @ 100rpm  | 6      | 28  | 10   | 15   | 8      | 12  | 18  | 27  | 35  | 45  | 60  | 85  | 50 SPIRA  | 105 SPIRA | 140 SPIRA | 80    | 100    | 120  | 160  | 200  |
| BPD @ 100rpm     | 38     | 180 | 60   | 95   | 50     | 75  | 110 | 170 | 220 | 285 | 380 | 535 | 315 SPIRA | 660 SPIRA | 880 SPIRA | 500   | 630    | 755  | 1000 | 1250 |
| Rotor Drifts     | 2-3/8" |     |      |      | 2-7/8" |     |     |     |     |     |     |     |           |           |           |       | 3-1/2" |      |      |      |
| Tube O.D.        | 3.0"   |     | 3.5" |      | 3.75"  |     |     |     |     |     |     |     | 4.33"     | 3.94"     | 4.5"      | 4.33" |        | 5.0" |      |      |
| Inlet Area (in2) | 0.7    | 0.9 | 1    | 1.25 | 1.2    | 1.5 | 1.5 | 1.5 | 1.5 | 1.8 | 1.8 | 2.6 | 1.6       | 1.9       | 2.0       | 2.7   | 2.7    | 3.4  | 3.4  | 3.4  |

# PRODUCTION OPTIMIZATION

## CUSTOMIZED EXPERT ARTIFICIAL LIFT DESIGN

**ESP - SPI OPTIMIZATION SOFTWARE**

**RODSTAR-BPU & HPU SIZING**

**XBAL - BPU BALANCING**

**ROD STRING - OPTIMIZE HIGHLY DEVIATED WELLS**

**PROGRESSIVE CAVITY PUMP DESIGN**

**\*OVER 30,000 ESPs - 1,600 HPUs - 400 BPUs, SOLD AND COUNTING...**

## ARTIFICIAL LIFT PRODUCTS

| FORM OF LIFT                       | ROD LIFT                | PROGRESSIVE CAVITY PUMP (PCP) | HYDRAULIC LIFT (HPU)      | HYDRAULIC JET               | ESP                     | CAPILLARY TECHNOLOGIES |
|------------------------------------|-------------------------|-------------------------------|---------------------------|-----------------------------|-------------------------|------------------------|
| MAXIMUM OPERATING DEPTH, TVD (FT)  | 13,000                  | 8,000                         | 13,000                    | 12,000                      | 12,000                  | 12,000                 |
| MAXIMUM OPERATING VOLUME (BFPD)    | 1,200                   | 1,500                         | <1,000                    | 2,000                       | 15,000                  | 400                    |
| MAXIMUM OPERATING TEMPERATURE (°F) | 385°                    | 250°                          | 385°                      | 350°                        | 285°                    | 400°                   |
| CORROSION HANDLING                 | Good to Excellent       | Fair                          | Good                      | Excellent                   | Good                    | Excellent              |
| GAS HANDLING                       | Fair to Good            | Good                          | Good                      | Good                        | Fair                    | Excellent              |
| SOLIDS HANDLING                    | Fair to Good            | Fair to Good                  | Fair                      | Good                        | Fair                    | Good                   |
| FLUID GRAVITY (°API)               | >10°                    | <38°                          | >12°                      | >12°                        | >12°                    | >12°                   |
| SERVICING                          | Workover or Pulling Rig | Workover or Pulling Rig       | Workover or Pulling Rig   | Reverse Flow or Pulling Rig | Workover or Pulling Rig | Capillary Unit         |
| PRIME MOVER                        | Gas or Electric         | Gas or Electric               | Multicylinder or Electric | Multicylinder or Electric   | Electric Motor          | Well's Natural Energy  |

Values represent typical characteristics and ranges for each form of artificial lift. Parameters will vary according to well situations, requirements, and must be evaluated on a well-by-well basis.

# LOCATIONS

## CUSHING, OK

1800 S LITTLE AVE, CUSHING, OK 74023

## BLOOMFIELD, NM

102 MONTANA, BLOOMFIELD, NM 87413

## BRECKENRIDGE, TX

2467 E US HIGHWAY 180, BRECKENRIDGE, TX 76424

## KILGORE, TX

329 HOUSTON ST, KILGORE, TX 75622



REQUEST A QUOTE



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