

The
Hydraulic
Beam Gas Compressor ®

Manufactured by Permian Production Equipment, Inc.– Midland, Texas

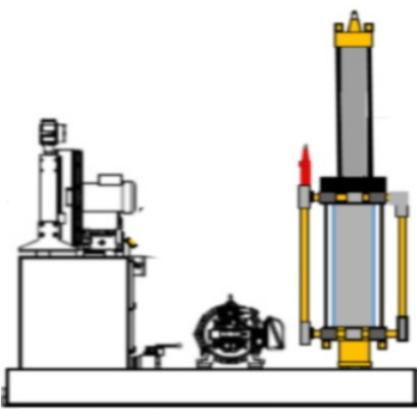
The **MOST**
reliable
compression system
Available

“The Real McCoy”



Hydraulic.beamgascompressor.com

**Going where no Compressor
has gone before**



For more information

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**Hydraulic
beamgascompressor®**
Manufactured by Permian Production Equipment, Inc.



What it Does:

Compresses Casing Head Gas

- Reduces back pressure on the formation increasing Production
- Reduces gas interference in the DHP, ESP's and PCP Lift Systems

Captures Stock Tank Vapors (VRU)

- Wet Gas- No Problem
- Sour Gas (H₂S)- No Problem
- Flow Line Liquid Slugs- No Problem

Advantages

- Easily adjustable stroke and run time
- Prime mover Electric or Natural Gas Engine
- Can be trailer mounted
- No Transmission or Crank Case

**Totally enclosed Compression Chamber—
no emissions to atmosphere**

BASIC OPERATION:

The Hydraulic Beam Gas Compressor uses hydraulic oil pressure to drive a reciprocating gas compressor cylinder. The hydraulic oil pressure is provided through a hydraulic piston and cylinder arrangement which is mounted to the top of a gas piston and cylinder. Through it, the hydraulic forces are transmitted to the gas cylinder through a common rod between cylinders as it extends all the way into the gas cylinder and to the gas piston. The compressor works in “**double acting**” fashion where with each piston direction, gas is simultaneously being compressed on one side of the piston and being sucked in on the other. The piston is reversed at the end of each stroke which causes the compression and intake side of the piston to be reversed and when done in a continual fashion make a reciprocating motion.

To drive the piston in reciprocating back and forth, hydraulic oil flow is applied in reversing directions to the hydraulic piston. When the gas piston reaches the bottom of travel, the hydraulic flow is reversed to the hydraulic piston to start the piston moving up the other direction and then reversed after the gas piston reaches the top of travel. The mechanism that tells the hydraulic system flow to reverse is a proximity switch mounted on the **gas cylinder** (one at the top and one at the bottom). With each stroke end, the proximity switch is triggered and the hydraulic flow is reversed. The flow reversal is accomplished through a standard hydraulic shuttle valve which swaps the pump flow destination from top of piston to bottom and vice versa. The pump is always turning in the same direction and at the same speed and is driven by a constant speed motor without the need for a VFD.

FLOW CONTROL - SUCTION CONTROL

The unit has suction pressure control to adjust itself to the varying flow needs of the process. It will either stop/start or proportionally control the speed of the unit.

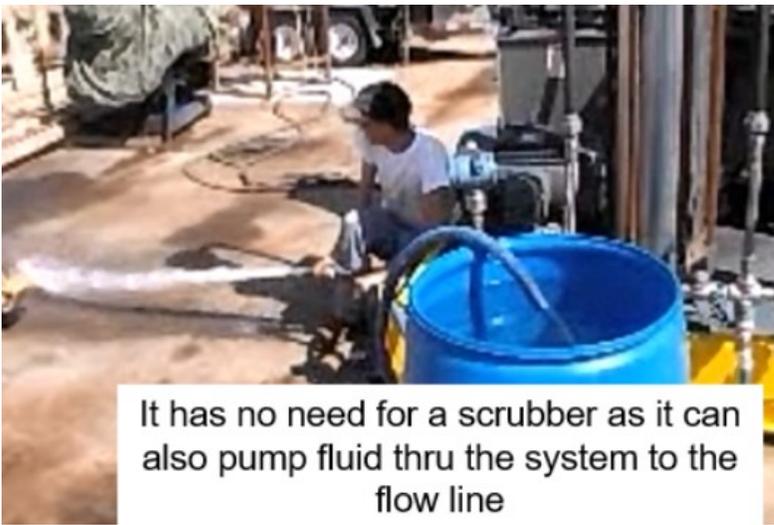
AUTOMATION

Since the unit requires three pressure inputs and two temperature inputs and can be wired into existing customer owned systems or one can be provided.

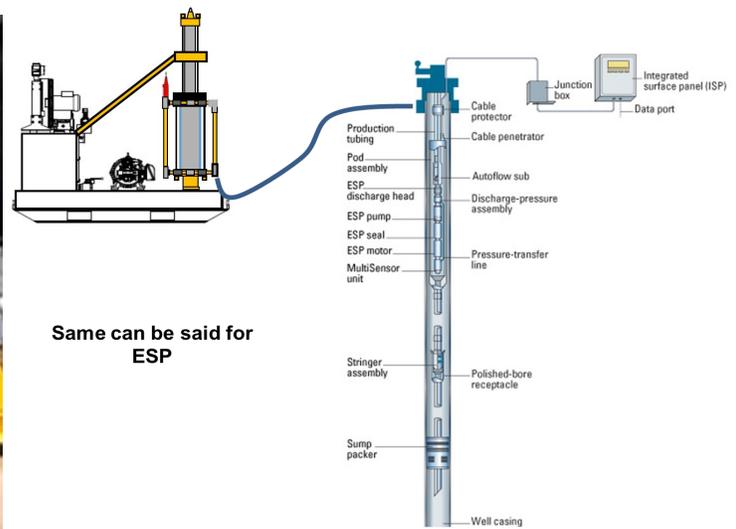


We can size a unit for Wellhead Compression, Vapor Recovery or Booster applications....

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It has no need for a scrubber as it can also pump fluid through the system to the flow line



Same can be said for ESP

The HyBGC has many applications

- Vapor Recovery Unit
- Booster Compressor
- Multiple Wellhead Compressor
- ESP Compressor
- PCP Compressor
- Hydraulic pumping unit
- Compressor



With the HyBGC ability to vary its stroke based on the volume of gas You can have multiple wells hooked to one unit

**Hydraulic Drive
Cylinder**

**Dual Head and
Manifold**

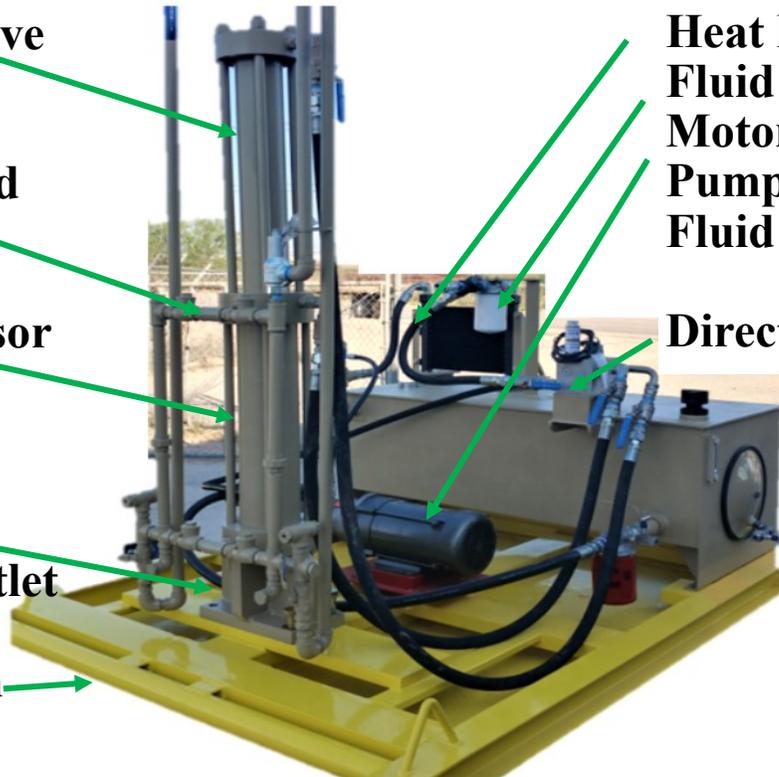
Gas Compressor

**Suction Inlet
and
Discharge Outlet**

Skid Drip Pan

**Heat Exchanger
Fluid Filter
Motor and
Pump
Fluid Tank**

Directional



**Totally enclosed Compression Chamber—
no emissions to atmosphere**