Quality Products
Engineered to Last

C-46 C-66 C-96 C-101 C-106 C-255

C-SERIES ENGINES & GENSETS

EPA CERTIFIED (C-46, C-66, C-96, C-101)
EPA CERTIFIABLE (C-106, C-255)

ARROW ENGINE COMPANY

A Tradition of Excellence
Since 1955
Engineered to Last
Arrow’s C-Series Engines are built to excel at one of the toughest, most demanding jobs - continuous operation in the oil-field. That’s why they are the best you can buy...not only to power pump jacks, but to pump liquids, generate electricity and provide the “muscle” necessary for many other jobs. Arrow C-Series Engines utilize heavy flywheels to provide high internal momentum for smooth, high torque while running at constant low RPM. The advantages of low RPM are substantial: less wear, less maintenance, less repair and in the long run less frequent replacement. Compared to high RPM engines, the C-Series engine lasts many times longer and costs less to operate.

Continuous Duty
Arrow C-Series Engines are designed for continuous duty. They provide the dependability that is so essential to oil-field operation. Arrow’s heavy duty design features a heavy flywheel, a governor speed control, and a pressurized full flow lubrication system to assure continuous operation.

Oilfield Tough
Over 100,000 Arrow engines are powering pump jacks in oil fields from the frozen tundras of Canada, to the mountains of South America; from the deserts of the Middle East, to the jungles of Indonesia. Many of the original engines built in the 1940’s are still running today.

Gas Fueled
Arrow engines run on a variety of low BTU gases: natural gas, methane, butane or propane. In many areas, locally available gas fuel frequently costs much less than bringing in liquid fuel or electric power.

Economical Operation
Studies performed in the U.S. have shown that operating costs for Arrow engines can be as low as half the cost for equivalent HP electric motors. Since every area is different, you owe it to yourself to compare the costs in your area.

Easy Maintenance
Arrow engines are designed for easy, quick field maintenance. Easy access enables replacing piston rings and wet cylinder sleeves in the field; and Arrow parts are interchangeable from the first model made.

Solid State Ignition
Solid State Ignition Systems are standard for Single Cylinder engines. Altronic ignition systems are also available as an option.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>C-46</th>
<th>C-66</th>
<th>C-96</th>
<th>C-101</th>
<th>C-106</th>
<th>C-233</th>
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<tr>
<td>BHP Range</td>
<td>5-9 BHP</td>
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<td>350-700 RPM</td>
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<td>Water Level and Oil Pressure standard</td>
<td>Ignition Solid State Ignition</td>
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<td>Lubrication Full Pressure</td>
<td>Oil Filtration Replaceable Full Flow Filter</td>
<td>Clutch PTO (Double Bearing) C-107-SP-5-DB C-110-HP-4 C-110-HP-3 SP-111-HP-3 SP-111-HP-3 SP-114-PO</td>
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* Oil Filter Changes add 1 QT
** 45' Truck Bed
### PUMPING UNIT SIZING CHART

#### Production, Plunger Size

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<th>Production, Plunger Size</th>
<th>Engine API Pumping Unit Size</th>
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#### Options & Accessories

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<tr>
<th>Options</th>
<th>Description</th>
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<td>15G-(36/56)</td>
<td>15 Gallon Tank with 36” or 56” Stand</td>
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<td>30G-56-OP</td>
<td>30 Gallon Tank with 56” Stand</td>
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<td>20-SD-250-OP</td>
<td>High Temp Shutdown-Option</td>
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<td>332-TSK-46-1-OP</td>
<td>Thermosiphon Option</td>
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<td>368-A-(46/66/96/101/106)-OP</td>
<td>Aluminum Flywheel Guard</td>
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<td>368-A5E-(46/66/96)-OP</td>
<td>Shearer Plastic Flywheel Guard</td>
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<td>512-K-OP</td>
<td>Regulator Oil Level</td>
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<td>512-C-KIT-OP</td>
<td>Oil Level Equalizer Kit</td>
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<td>ALT-(46/66/96/101/106)-OP</td>
<td>Alternator &amp; Bracket OP</td>
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<td>VTHF10</td>
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<td>VTHF14</td>
<td>Hose Assembly for C-96 / C-106</td>
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#### Pumping Unit Sizing Chart

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<tr>
<th>Production, Plunger Size</th>
<th>Engine API Pumping Unit Size</th>
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<td>2,000 Foot Well Depth</td>
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Prime Mover Selection
Selecting the right type of prime mover to fit the application is the most important aspect of managing rising production costs. The slow-speed natural gas engine was the workhorse of the industry well into the 1970's, and now the gas engine's time has come again. With more wells pumping continuously and electric rates skyrocketing, matching the right natural gas engine to the beam pumping application can deliver both operational and economic benefits.

Gas vs Electric Costs
On many wells, 50% or more of the lifting cost can be attributed to the electricity charges. When all factors are known about the well requirements, the prevailing electric rates, and the drop charges, it can be shown by cost analysis that the Arrow gas engine has the cost advantage. The higher the horsepower, the greater the savings. Arrow has developed an online utility to help you calculate your savings – visit www.ArrowEngine.com and click on “Toolbox.”

Arrow Gas Engine Warranty
Arrow Engine Company offers its customers the best warranty in the industry. We are the only manufacturer that offers a 36 month limited warranty on many of our engines primary components. Contact our Customer Service Department and one of our team members will be happy to send you a copy of our engine warranty.

Maintenance & Tech Support
Arrow offers free phone support as well as a complete parts, operation, and maintenance manual for our engines.

Training
We also offer an exclusive 3-day Engine Service School designed to fully train field personnel in the maintenance and operation of Arrow gas engines. Arrangements may also be made to conduct training at your location.

Automation
Arrow offers an Auto-Start® System package for our engines as well as other brands. This flexible programmable system allows for different cycles for each day of the week as well as continuous monitoring of critical operating parameters and automatic shutdown when potentially hazardous conditions are detected. Some additional key features of the unit include automatic on/off cycle timing, oil circuit integrity monitoring, selectable speed ranges, programmable start-up sequence, and a built-in start attempt counter.

Call or go online today for more information.

Aluminum Safety Flywheel Guard
The ArrowGuard Aluminum Safety Flywheel Guard ensures maximum personnel safety and access for field service. The aluminum guard is now standard equipment on all Arrow C-Series engines.

Benefits
- Servicing and adjustments can be performed safely
- Lightweight material
- Shields the flywheel to guard against accidental contact with service personnel or foreign objects
- Built to accommodate hand crank or removable power starter
The Arrow C-255 Slow Speed Engine, powering a Global Power Systems InGen Induction Generator System in Northern Oklahoma.

Continuous Cathodic Protection

Cathodic protection, in simplest terms, means providing an electrical charge to reduce corrosion. To gas and oil professionals around the world, Cathodic protection is a real concern. If the countless miles of pipelines were not protected, the threat of leakage or failure would be greatly increased. In the U.S. the D.O.T. Office of Pipeline Safety states that pipelines operating at certain pressures must have cathodic protection installed. The installation of a cathodic protection system reduces or eliminates corrosion. In the corrosion process, minute metal particles are carried from the pipeline by the resulting current flow, which causes a pitting or weakening of the pipeline, ending in leakage or failure of the line.

Arrow Engine Company has a solution to the problem of cathodic protection for remote site locations along gas pipelines. Our single cylinder generator set GenSet can be strategically placed along the pipeline using natural gas to generate D.C. current to control the flow of current onto the pipeline structure. This process cuts down the wear and tear on the lines that carry millions of cubic feet of gas per day.
AutoStart NS-2

Our new Autostart NS-2 for all Arrow engines is a simple, programmable system that allows for different cycles each day of the week as well as continuous monitoring of critical engine operating parameters and automatic shutdown. This system features a built-in tachometer, hour meter and battery voltage meter. The automation can be set to real time, interval timing, manual mode or remote start, giving you everything you need to easily automate and monitor your oil field operations.

Features
- Tachometer
- Hour Meter
- Battery Voltage Meter
- Real-Time Clock
- Interval Timing
- Manual Mode
- Remote Start

Clutch Actuator for C-Series Engines

Arrow has introduced its new patented Clutch Actuator (CO-00) for C-Series and A-Series Engines. This new actuator features a simple 2 wire and 12V connection for ease of installation. All adjustments are made outside the unit on the linkage that connects the actuator to the clutch lever. This in conjunction with the New Style Auto Start (Autostart-NS) is the simplest and easiest to use and install electronic automation package available anywhere.

Features
- 2-wire 12-volt connection
- Easy Installation
- Simple to Use
- Compatible with Autostart NS-2
**C-46**

**C-66**

**C-96**

**C-101**

**C-106**

**C-255**

**ARROW ENGINES**

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<thead>
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**ARROW GAS PRODUCTS**

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<thead>
<tr>
<th>GAS PRODUCTS</th>
<th>CHEMICAL PUMPS</th>
<th>REPLACEMENT PARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meter Runs</td>
<td>10 Series (beam operated)</td>
<td>CATERPILLAR®</td>
</tr>
<tr>
<td>Coalescers</td>
<td>430 Series (electric)</td>
<td>Waukesha®, VHP®, and VGF® are registered trademarks of GE®, Caterpillar®, is a registered trademark of Caterpillar, Inc., Fairbanks Morse® is a registered trademark of Coltec Industries, Inc., and Ajax® is a registered trademark of Cameron International Corporation.</td>
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**CATERPILLAR®**

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