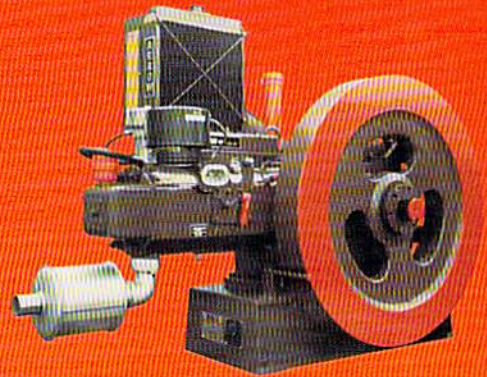


# NATURAL GAS FUELED

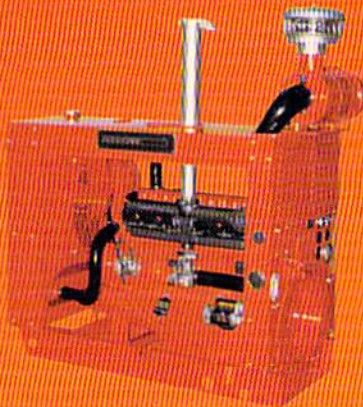
## ARROW Single Cylinder Engines



"C" Series Gas Engine

Continuous Power for:

- Pumping Jacks
- Cathodic Protection Generators
- Electrical Generators
- Belt drive high speed centrifugal pumps
- Direct drive positive displacement pumps



VRG330 "Closed power unit"

Continuous Power for:

- Gas Compressors
- Electrical Generators
- Pumps of all types
- Mobile equipment power
- Agriculture water irrigation pumps

## ARROW Multi Cylinder VR Engines *(very reliable)*

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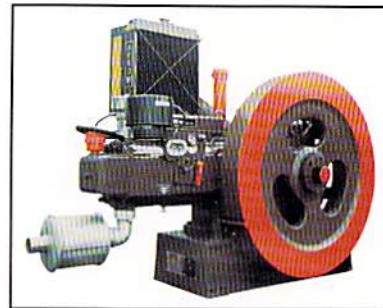
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## ARROW ENGINES - A WORLD OF QUALITY

Arrow's continuous duty oilfield gas engines are built to excel at one of the toughest, most demanding jobs ever devised. That's why they are the best you can buy...not only to power pumping jacks, but to pump liquids, generate electricity and provide the "muscle" necessary for many other jobs. Arrow engines utilize heavy flywheels to provide high inertial momentum for smooth high torque running at a constant low RPM. The Arrow 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, an Arrow engine lasts many times longer and costs less to operate.



"C" SERIES GAS ENGINE

### Arrow Engine Advantages

#### • Continuous Duty

Arrow engines are designed for continuous duty 24 hours a day, day after day. Dependable performance when you need it. 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 75,000 Arrow engines are powering pumping jacks in oilfields 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. Tough means they work harder, longer.

#### • Gas Fueled

Arrow engines run on a variety of low BTU gases; natural gas, wellhead gas, methane, butane or propane. Whether in remote jungles or in civilization, locally available gas fuel frequently costs much less than bringing in liquid fuel or electric power. The single cylinder Arrow engines can also be equipped with a fuel lift pump and will operate on gasoline.

#### • 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. The oil level can be checked and adjusted while the engine is running. Easy access enables replacing piston rings and wet cylinder sleeves\* in the field; and Arrow parts are interchangeable from the first model made.

#### • Ignition

Starfire Solid State Ignition Systems are standard for Single Cylinder engines and optional on Twin Cylinder engines. Also available as options are high tension or solid state magnetos, or Altronic ignition systems.

\* APPLICABLE TO C-SERIES ONLY

Product Specifications	"C" Series Four Cycle Engines				
	C-46 (1 cyl)	C-66 (1 cyl)	C-96 (1 cyl)	C-106 (1 cyl)	C-255 (2 cyl)
Rated Continuous HP at Max Continuous RPM	10 HP 7.5 KW 800 RPM	14 HP 10.4 KW 700 RPM	20 HP 14.9 KW 600 RPM	32 HP 23.9 KW 800 RPM	55 HP 41.5 KW 750 RPM
Bore & Stroke (MM)	5"x6¼" (127x159)	5¾"x7½" (146x190.5)	7"x8½" (178x216)	7½"x8½" (190.5x216)	7½"x7½" (190.5x190.5)
Displacement (Liters)	122.7 C.I.(2)	195 C.I. (3.3)	327 C.I.(5.5)	376 C.I.(6.4)	660 C.I.(11.2)
Compression Ratio	4.8:1	5.2:1	4.8:1	6.2:1	7:1
RPM Range	400-800	350-700	300-600	300-800	400-750
WR <sup>2</sup> (Kg-M <sup>2</sup> )	290 LB FT <sup>2</sup> (12.18)	600 LB FT <sup>2</sup> (25.20)	1600 LB FT <sup>2</sup> (67.20)	1760 LB FT <sup>2</sup> (73.92)	1430 LB FT <sup>2</sup> (60.06)
P.T.O. Shaft Size (MM)	1 7/16" (36.5)	2¼" (57.2)	2¼"(57.2)	2¼"(57.2)	2¼" (57.2)
Oil Capacity (Liters)	7 QTS*** (6.6)	7 QTS*** (6.6)	11 QTS*** (10.4)	11 QTS*** (10.4)	25 QTS*** (23.7)
Water Capacity (Liters)	12 QTS (11.5)	16 QTS (15)	20 QTS (19)	20 QTS (19)	9 GAL (34)
Spark Plug Size	18 MM	18 MM	18 MM	18 MM	18 MM
Exhaust Connection	1½"NPT	2"NPT	2½"NPT	2½"NPT	2½"NPT
Fuel Gas Pipe Size	½"NPT	½"NPT	½"NPT	¾"NPT	¾"NPT
Mtg. Bolts: No./Size	4-¾"	4-¾"	4-1"	4-1"	4-1"
Shipping Wt. (KG)	1360 LB (617)	1640 LB (744)	2580 LB (1220)	2690 LB (1220)	4510 LB (2045)
Truck Load Qty*	24	22	16	16	10
Safety Controls	STANDARD; Water Level & Oil Pressure**				
Ignition	Starfire			Solid State Std	
	Gaseous				
	Impco Type Carburetor				
	Full Pressure				
Filtration-Oil	Replaceable-Full Flow Filter				
Clutch-P.T.O.	C-107-SP-5	C-110-HP-4	C-110-HP-3	SP-111-HP-3	SP-114-P0
Starting Equipment	12 volt Ring Gear Starter standard				Air-Gas Optional
* 45 FT. TRAILER BED	** INCLUDES: OVERSPEED ON C-255 *** FOR OIL FILTER CHANGES ADD: 1 QT. ON C-SERIES				