

# "Rock Island" Engines



Cylinder Head, Cylinder and Base

"Rock Island" Gasoline Engines are built for genera use the world over. They are made to use under all conditions, by people more or less unfamiliar with gaso line engines. They are the product of a high-class engine factory.

hase, cylinder and water jacket separately, as this is the most satisfactory way to build an engine. The ma-

chine along takes those separate parts, carefully machines them and then joins them firmly together by plenty of serviceable studs and botts. Cylinder is held to bease with double cellar bearing and plenty of extra strong

Bearings are cast at an angle of 30 degrees, so that the thrust of engine is against bed and not against holding crank hoves.

The cylinder is made of the best material for the purpose. It is made of

#### PISTON AND RINGS

The piston is the simple "trunk type" and of anticient length to provide ample wearing surface on cylinder. Both piston and rings are made of very fine grained from and very carefully ground to exact six not provide a surface of the engine. The provided is the surface of the engine. Rings are made with lap joints, as this construction maintains the compression.

The bearings receive special consideration in "Rock Island" Engines. Castings are carefully machined to receive bearing material. Bearings are made of best anti-friction metal known, and will not run hot.

#### OILING

Proper lubrication is essential to best results. Sight feed lubricators are used for oiling piston. Spring compression grease cups are placed on connecting rods and plain grease cups on the main bearings.

### CONNECTING RODS

Connecting rods are of ample size, correctly proportioned, and with adjustable crank bearings.

On 1 to 6 H. P. engines, connecting rods are made of drop forgings, I-beam in shape. On 8 to 22 H. P., connecting rods are made from mild steel steam hammered forgings, which are drawn from the solid billet and machined and calished.







# "Rock Island" Engines Continued



Finished Crank-8 to 22 Horse Power

The crank pin ends of the smaller rods are lined with genuine conner

Connecting rod end is fitted with a separate phosphor bronze bushing and is

The piston is oiled by sight feed lubricator of liberal size, through a tube in CRANK SHAFTS

The crank shafts are unusually large. The crank itself must be amply

strong, for the entire power falls directly on the crank. Every shaft is hammer-forged steel made from one solid piece.

The crank shafts for 1 to 6 H. P. engines are without welds of any kind

The crank shafts on the 8 to 22 H. P. engines are steam hammered from All "Rock Island" crank shafts are made and finished as perfect as tools,

### CYLINDER HEAD AND VALVES

LOCA HAT SIDE ROOYOUR CHI

Cylinder Head and Valves

"poppet" type, and have



#### "Rock Island" Engines-Continued



The bearings are very iberal in size and have the nost approved offing device.

#### THE MINER

This is an important poin hileh has been carefully con idered in Rock Island en ines. The vaporizing proess is most efficient and will ive splendid satisfaction. Is s very carefully made to alow the very finest adjust tent.

The gasoline and air are introduced directly into the explosion chamber by the rush of air through the suction pipe. This is drawn into the cylinder by the suction of

Governor End

A small amount of gasoline which is immediately vaporized. It then enters directly into the explosion chamber and the entire force is shot directly against the head of the niston.

amount of power with the minimum fuel consumption.

GASOLINE PUMP

### On the 8 to 22 H. P. engines, we provide a very simple pump, without

stuffing boxes, packing, etc. No pump is necessary on the smaller sizes.

This pump is positive and simple in action, and maintains an even an opation supply of the latter research.

Should any foreign substance gather in the pump, it is a very simple matte to clean it out, because of the easy access to the ball check valves.

#### A RELIABLE IGNITER

The igniter is of the "make and break" type. This has been proven superior to all other types, especially for engines of moderate speed. It can be depended upon for long continued service.

life and entire satisfaction.

The contact is of short duration and makes a big

On the idle stroke of the engine, the igniter trip is inactive. This makes a big saving of wear on the movable electrode springs and igniter points. All "Rock Island" engines are equipped with a

movance electrode springs and gener points All "Rock Island" engines are equipped with a speed changing device of approved design and excellent pattern, which gives a variation in speed of about 33%, and it allows the changing of speed while the engine is in motion.



se Power Engine



### "Rock Island" Engines Continued

We finish "Rock Island" engines in a very hand-

"Rock Island" engines strictly conform to the

It is a very simple matter to start a Rock Island Engine. To anyone

### (Send for Special Engine Catalog.)

"Rock Island" One Horse Power Engine The Rock Island one-horse power

If skidded engine is ordered, the

Engines are shipped with all pipe



k Island" One H. P. Engine Bleast and Dimensions										
H	Horse	Speed	Size		Size of	Shipping	Weight	Telegroph		
ř	Power Rating	Rev. per Minute	of Polley	Space	Fly Wheel	Skidded	Portable	Code		
	nating 1	500	4%°x4%"	93"x47" Wheel Base	16"3.2"	225		Gas		





#### "Rock Island" Engines-Continued



"Rock Island" 214 H. P. Engine on Skids

This is a very popular size of engine, adaptable to a wide range of uses on the farm; operating pump, separator, churn, washing machine, grindatone, feed mill, and similar machinery. Engines are shipped all complete—the gasoline is contained in the base and

Engines are shipped all complete—the gasoline is contained in the base and all piped. The battery box is secured to the truck and all wire connections made. They are then carefully cruted and are ready for business when you receive them. Simply supply the necessary gasoline, oil and water. They are

Catalog No. of Engine	Horse Power Rating	Speed Bev. per Minute	Size of Polley Dis-Face	Size of Fir Wheel Din-Fore	Floor Space	Shipping Weight	Telegraph Code
108%8 108%P	2%	205 205	8"x4\" 8"x4\"	90.X5.	30" 40"	550 600	Gasifice



### PORTABLE

When skidded engine is ordered, skids are bored so it is easily mounted on trucks. The hand truck is very substantially made,

The hand truck is very substantially made with extra strong iror wheels. Wheels are 13 inches high, with 2-incl tires. The handle hooks on the front axle and is easily removed. Axles are cold rolled steel.

This truck is far superior to the ordinary wood sill truck so commonly used.

monly used.

Engines are fully equipped and shipped ready for work.





# "Rock Island" Engines Continued



# Rock Island 4 and 6 Horse Power Engines

These are the most popular sizes of engines for general farm work. For six horse power Portable Engine see page 238, Four horse power engine is skidded. The wheels, axles and handle can be added later, if desired, to mount on trucks.

Engines are shipped fully equipped, all read

No. of Engine	Power Rating	Rev. per Minute	Polley Din-Face	Fly Wheel Dia-Face	and FloorSpace	Weight	Code
104HP 1048 1068	4	385 386 375	10°16" 10'11" 11'18"	18,722, 18,72, 18,73,	16/6,762. 11,836.	500 835 1100	Gassand Portatõega Gasworks







### "Rock Island" Engines-Continued



"Rock Island" 4 to 22 H. P. Engine

The cut above shows the Rock Island 4 to 22 Horze Power Engine with hopper. This hopper can be reey easily removed, so that it's a very easy matter to change from the hopper-cooled to a closed cylinder engine. This applies to the 8 to 22 horse power only.

Any size from 4 to 22 horse power can be ordered with "hopper-cooled," as shown, but "closed cylinder" type only in 8 to 22 horse power. On stationary engines, instead of using an ordinary muffler, we furnish an

exhaust pot with sufficient pipe to run the

Oil, shows engine assumed on Full Bane, which is regular. Half Bane is without the lower section of lease, adaptable for special monating on trucks. Equipment consists of galvanized gasoline tank, pipe and fittings, so that tank can be placed outside of the building; pulley, exhaust put and sufficient pipe to run the exhaust outside of the building; battery box, batterles, wire, switch and spark cell, crank ghild, sight feed lubricator, grease cape, oil cain, pipe

Catalog No. of	Horse	Speed Rest ner	Size of	Size of	Flore	Shipping Weig		Telegraph
Englos	Rating	Minute	Din-Face	Dia-Face	Space	Full Base	Half Base	Code
204 200 208 110 113 114	4 6 8 10 12 14 16	385 203 385 385 203 203 203	10°x 6" 12°x 8" 18°x30" 18°x30" 20°x14" 20°x14"	SENSE C SENSESC SENSESC SENSE	E- F'S4' 2-11'X4'- F' 5- 7'X5'-10' F- F'XF' 4- 0'X5'-10' 4- 0'X7'	1000 1850 2000 2400 3400 2550 6600	900 1200 2300 2200 3000 3100	Gnagun Gnaheato Gnalet Gnalet Gname Gnamen
		225	20"\$14"		4"- 0"306"-10"		2000	





# "Rock Island" Engines-Continued



"Rock Island" 6, 8 and 10 H. P. Engine

Above we illustrate our 6, 8 and 10 H. P. engines, mounted on skids. T make a complete portable outfit the wheels, axles and pole may be added later. This size engines are for any heavy work, and have no superior. Dimensions of stationary and skidded engines given on preceding mags. Dimensions of

	bottubio	given	nelow.	
١			Speed Rev. per	

No. of Engine	Rating	Mirrote	Pulley	Pulley	Ply Wh'll Din-Face	Wheel		of Fire	Weight	1
108P 108P 104P 111P	6 8 10 12	225	18"5(10"	24"X 8" 24"X 8" 28"X 8"	55"×5%" 45"×5%" 45"×5%" 10"×3"	28"X37" 28"X37" 26"X34"	440	Tire Tire	2903	

"Rock Island" 8 to 22 H. P. Portable Engine



(Send for Special Engine Catalog.)

227





# "Rock Island" Engines-Continued



#### "Rock Island" 6 H. P. Portable Engine

Above is shown the 4 and 6 H. P. engines, as already described, but mounted portable trucks.



(Send for Special Engine Catalog.) 238





# "Rock Island" Engines-Continued



# Friction Drive Magneto

friction or gear drive magneto. The friction magneto may be supplied on any size engine. The gear drive magneto is for 6

No. 25-Friction Drive. No. 30-Gear Drive.



geared pump jack.

Our pump jacks are made to meet every insure long life and constant service. We Illustrate here our No. 2 and 3 double back



Description

Number	Size of Policy	Speed of Pulley	Back Geared	Shipping Weight Pounds	Telegraph Code
1	10 X4	180 to 500	4 to 1	80	Pump
	716x2	270 to 500	9 to 1	15	Pumping
	12 X2	270 to 500	9 to 1	80	Pumped
	13 X2	120 to 100	4 to 1	80	Pumper
	13 X2	120 to 100	4 to 1	90	Pumpet



EBICTION CLUTCH PULLEY

	Ato OHP	30	. 6
	ato 6HP	12	
2		34	
1		16	6
		15	
1		90	
	6 to 10 H P	22	
59	8 to 18 H P	24	
11	8 to 18 H P	28	
12	12 to 18 H P	190	6 8 8 8
14	12 to 18 H P	34	10
16	22 H P only	34	10