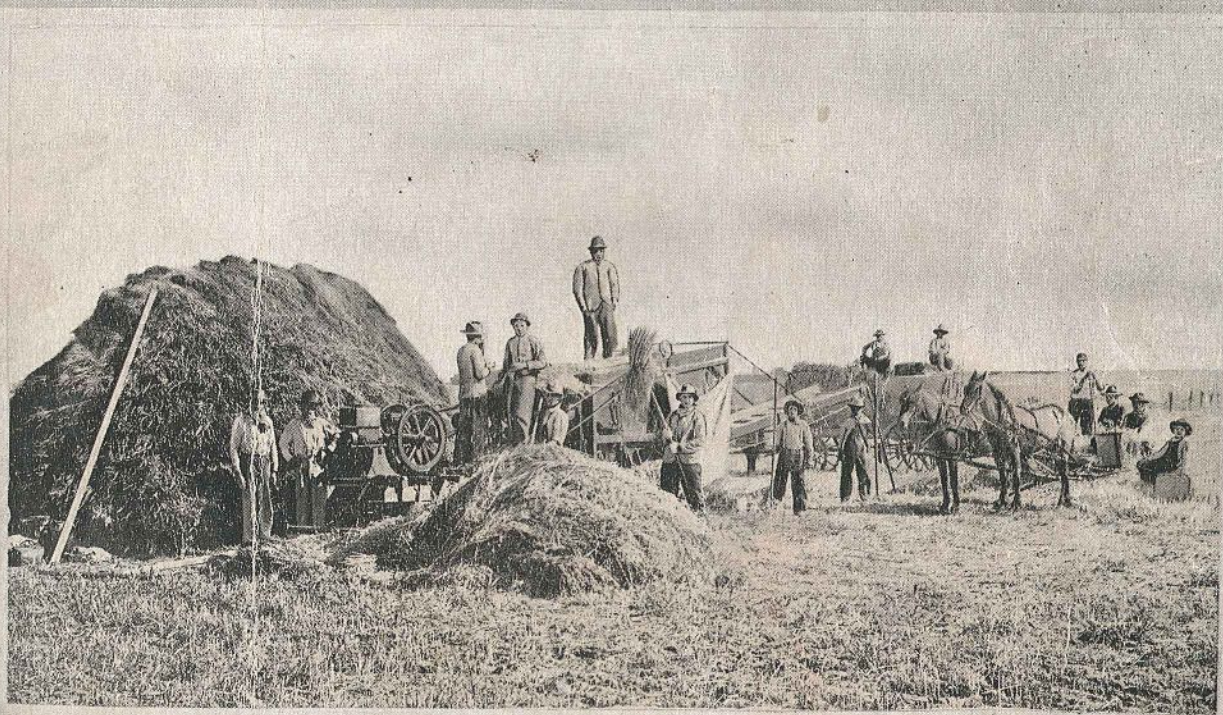


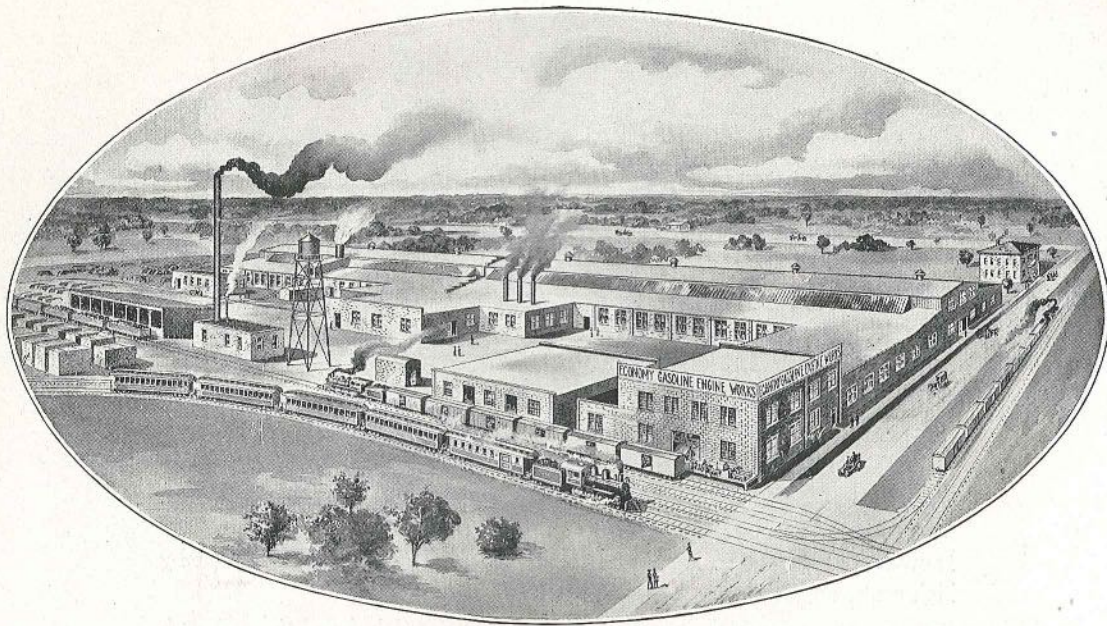
# GASOLINE ENGINES



SEARS, ROEBUCK AND CO.

CHICAGO





---

---

## WE OWN THE FACTORY

---

---

OUR GASOLINE ENGINE FACTORY is located at Sparta, Michigan, 15 miles from Grand Rapids. All engines are manufactured to fill our orders. No sales are made direct from the factory, as our requirements take the entire output. We built this factory and installed the latest, most up to date machinery with the intention of manufacturing *high grade* gasoline engines and to manufacture them in such quantities that we could sell the engines at a reasonable price and make immediate shipment. Our factory has a capacity of from fifty to seventy-five engines a day and we can take care of all orders promptly.

We manufacture these *high grade* guaranteed gasoline engines in large quantities and thus gain a distinct advantage in the matter of price, because it is necessary to add but one profit to the actual cost of material and labor. We have the factory, we have the facilities to turn out *high grade* engines at the lowest prices ever made and we guarantee the Economy Engines to be equal to any engines made selling for twice the price we ask.

---

---

# SEARS, ROEBUCK AND CO., CHICAGO ILLINOIS

---

---

121G—Ed. 1.



# You Can't Afford to Be Without a Gasoline Engine

---

---

**Y**OU OWE IT TO YOURSELF and to your family to investigate the possibilities of the gasoline engine. It will put your farm on a business basis and save you time and money. You will be surprised at the many things a gasoline engine will do and do them better and more economically than you can possibly do them in the old way.

The Economy Gasoline Engine has been called the "farmer's friend." It is his friend. It will lighten his labors and make life more pleasant for his wife and family. Let the Economy do the chores. It will run the separator, churn, feed grinder and grindstone, as well as pump water, saw wood, and do a dozen other things economically and well.

Buy a gasoline engine, but be sure that it is an Economy, for no matter what gasoline engine you buy you cannot get one that is made of better material, or that shows higher class workmanship than the Economy. We build it ourselves in our new modern gasoline engine factory and we know the material used in its construction is the *best*, and that it is built by high grade mechanics.

Every engine is thoroughly inspected and tested before being shipped, and we guarantee it to be equal to any gasoline engine selling for twice the price we ask.

## **A Gasoline Engine Will Save You Time and Money.**

It may be that you have not fully decided that you need a gasoline engine, but we would like to ask if you have ever stopped to consider the time you spend pumping water, running the feed grinder, cream separator, washing machine, etc. Do you know that an engine will do all this work, and figuring your time at \$2.50 a day, don't you think a gasoline engine would soon pay for itself?

Think of the returns from such a small investment. Just let us prove to you that you cannot get along without a gasoline engine. We will take all the risk and guarantee that you will be entirely satisfied. Send us your order, enclosing our price, and we will ship you immediately any gasoline engine you pick out. You may use it on your farm for two months; put the engine to every test you can think of; run all the machines you have, compare the engine with any other engine in your neighborhood, regardless of price, and if you do not say you have a bargain (if at the end of the sixty days you can get along without the Economy), send it back to our factory and we will return your money, together with freight charges. That is a square proposition, don't you think so? An offer like that surely shows we are willing to stand behind the Economy and that we know it is equal to any engine costing twice our price.

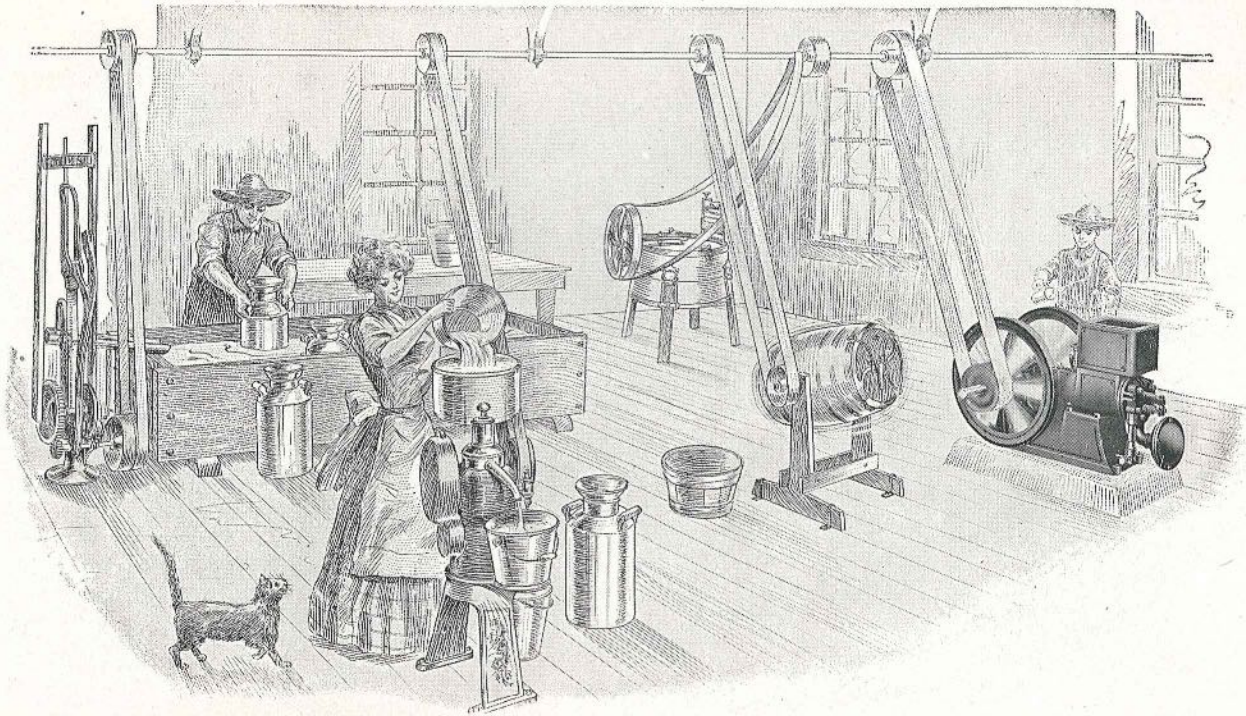
---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

-2-





---

---

## The Lowest Prices Ever Made on High Grade Gasoline Engines

*First class, high grade gasoline engines at prices far below what you pay elsewhere, and they are backed by the strongest guarantee ever written. Shipped on sixty days' trial. Satisfaction guaranteed.*

THERE HAS BEEN A GREAT IMPROVEMENT in gasoline engines within the last five years and today they are the most valuable machines used on the farm. Every up to date farmer and shop owner has long realized that a gasoline engine simple in construction, easy to operate and economical in the use of fuel, one that would run with very little attention would be a most valuable machine. There has been a steady demand all over the country for such a gasoline engine, just as there has been a great demand for all improved machinery, and a great many gasoline engines have been put on the market to supply this demand. They sell for a great many different prices, and a wide range of material is used in their construction. Almost any gasoline engine will give satisfactory service for a year or so, but the farmer wants an engine that will run year in and year out; an engine that is standard and for which he can buy repairs as long as they are needed. He wants an engine backed by a guarantee that will protect him from loss ten years from date of sale as well as a few months after the purchase.

We have been selling gasoline engines for several years and our gasoline engine business has been increasing. While we have always furnished the best engine we could at the lowest possible price, we felt satisfied in our own mind that if we could manufacture these engines ourselves, in a new fully equipped and modern gasoline engine factory, built especially for the purpose, we could sell these engines at a much lower price than any high grade gasoline engine had ever been sold for before.

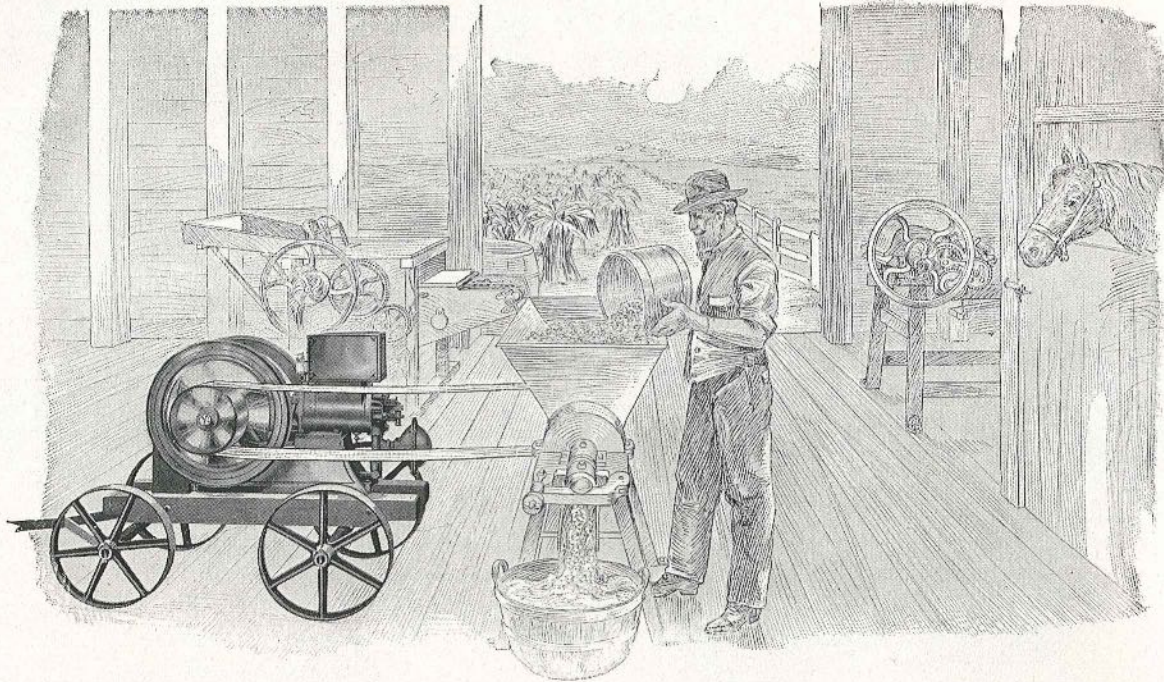
We therefore built and equipped, at Sparta, Michigan, one of the most modern and up to date gasoline engine factories in the United States. A factory where every successful modern machine and labor saving device is used, where high grade mechanics can work to the best advantage; where we are able to secure our materials at the lowest possible cost and at the lowest freight rates. In this ideal factory we are now building high grade Economy Gasoline Engines which we are offering for sale at prices far below those demanded for any other engine made.

---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**





---

---

## What We Are Doing and Will Do in the Gasoline Engine Business Is Simply a Repetition of What We Have Done in Other Lines

When we went into the gasoline engine business we found that the farmer was being charged from \$100.00 to \$150.00 for a 2-horse power engine such as we sell for \$42.95. The farmer and every user of a gasoline engine was paying the agent, dealer and manufacturer twice as much for handling expense and profits as the actual cost of the engine; we also found that engine factories were manufacturing in a very expensive way and that the cost on their 2-horse power engine was more than we are now asking for the one we sell, but even though the cost of manufacturing was so much more than we ask, they were not making any better engines than we do.

Our experience in other lines taught us that in order to sell high grade engines at the right prices we must sell a large number of them. There was a great demand for a high grade engine if sold at a reasonable price and we went to work to build gasoline engines in the most economical manner and sell them direct from the factory to the user at prices that were *right*.

### We Defy Competition on Gasoline Engines.

We have the factory and the facilities to turn out high grade engines at the lowest prices ever quoted. We guarantee our engines to be equal to any engines on the market selling for twice the price we ask.

We do not want you to send us an order for a gasoline engine as a favor, but we do want you to compare the Economy with any other engine made, considering not only the price but the quality of material and the simplicity and ease of operation as well. The more competition we have on gasoline engines the better we like it. We want you to look into the gasoline engine business thoroughly. Get other catalogs and look at the engines your dealers have for sale. All we ask is that you compare our engines with others and also investigate prices.

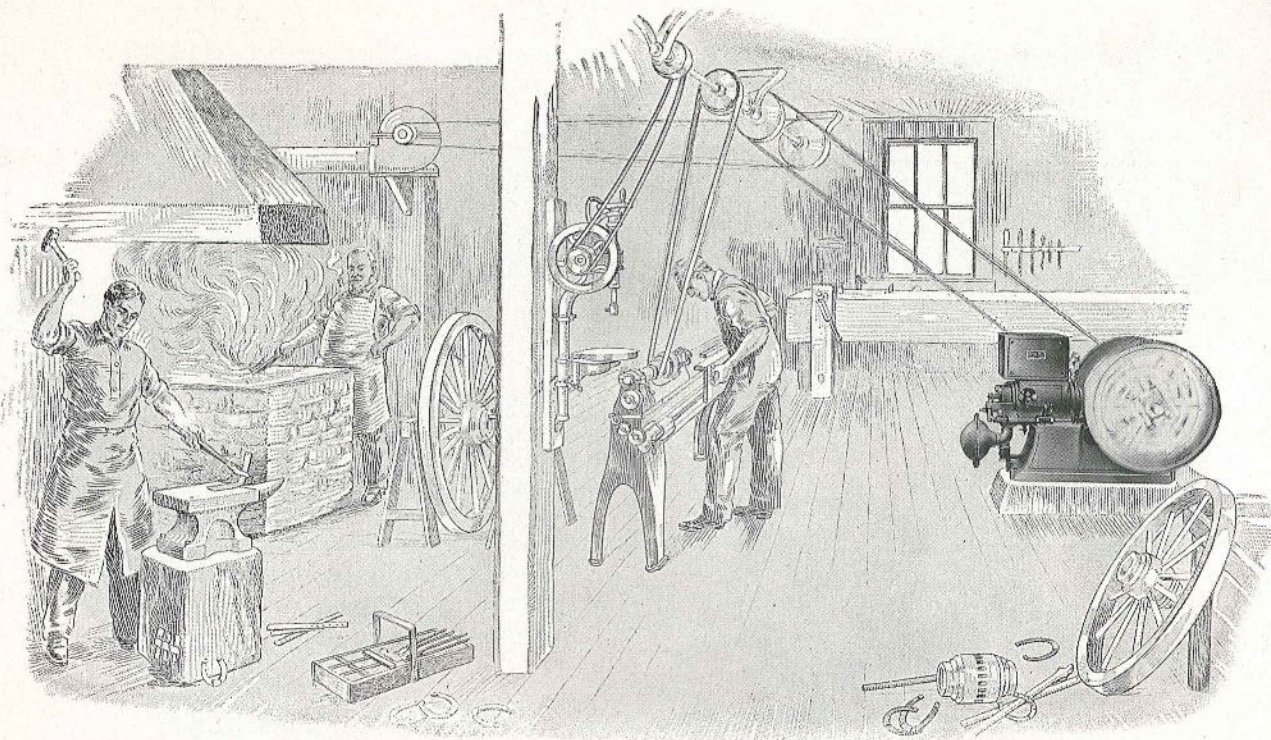
Ask the man who wants to charge you more for a 2, 4 or 6-horse power engine, "What more do you give than I can get from Sears, Roebuck and Co.?" ask him if he will allow you to take an engine home for sixty days and use it and then return it if you are not perfectly satisfied; ask him if he will replace any piece or part that proves defective on account of material or workmanship during the life of the engine.

---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**





---

You don't want a one-year or even a five-year guarantee; you want a guarantee that will cover the engine during its lifetime; a guarantee that will protect you from an unsatisfactory purchase. If anyone can give you as good an engine at a less price, or give you a better opportunity to try the engine, or even give you a stronger guarantee, we will not expect your order. On the other hand, if you find we have a high grade engine at the lowest price, we will expect your order. We will ship the engine at once and protect you absolutely from an unsatisfactory purchase. You need a gasoline engine. Every man with any machinery to run needs an engine; and there are five good reasons why that engine should be an Economy.

The Economy Gasoline Engines are as simple as it is possible to make them, as we realize that the average farmer is not a mechanic, that his time and attention must be devoted to other things than taking care of or making repairs on a gasoline engine. The instructions we send with each engine are so simple that any twelve-year old boy will be able to operate and care for the engine.

The Economy Gasoline Engines are made of the best material, they are very powerful, having been tried out in actual service alongside of every gasoline engine made. We have received thousands of letters from our customers all over the United States, telling us that the Economy will develop more power and do more work with a less consumption of fuel than any other engine. Some of the testimonials in the pages of this book will show you what our customers think of the Economy. We will guarantee the Economy Gasoline Engines to do as much work, last as long and need fewer repairs than any other gasoline engines of their kind on the market.

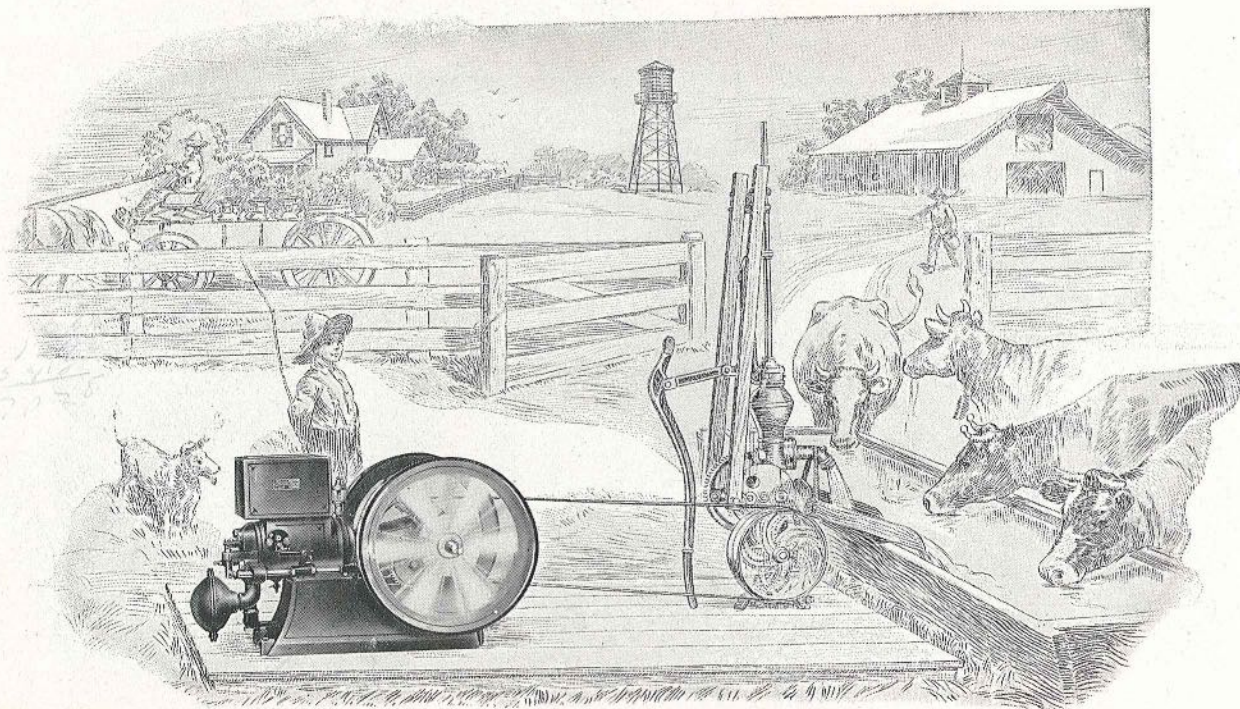
Besides being simple, durable and powerful, the Economy Engines are very economical in the use of fuel. They use only a few gallons of gasoline in a day, the amount of course depending on conditions; they use on an average of 1 gallon for each horse power for a ten-hour run; a 2-horse power using about 2 gallons in ten hours; a 4-horse power about 4 gallons, etc. Considering the work accomplished by one of these engines in ten hours, the cost of operation is really but a few cents. The engine is so constructed that the supply of gasoline is constant and sure whenever needed, and when not needed it is shut off automatically so that there is no waste.

Quality of course is the first thing to consider when buying a gasoline engine. You want the best gasoline engine you can buy for as low a price as possible and we are prepared to give you both. Some engine dealers may try to convince you that a first class high grade gasoline engine cannot be built for the price we ask, but if you will read this catalog carefully we are quite sure you will realize that it is possible, and we guarantee the Economy to be equal to any gasoline engine made.

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**





---

---

## A Gasoline Engine to Pump Water

DID YOU EVER STOP TO CONSIDER how much time you spend at the pump handle pumping water, and how much easier it would be to simply start the gasoline engine and let it pump the water while you do the other chores that must be taken care of?

A gasoline engine is always ready. You can start it in a minute. It will run all day with very little attention. It gives you a constant stream of water. It is not only very economical in watering the stock, but for irrigating, sprinkling your lawn or watering the garden.

If you have a windmill let it pump the water when the wind blows, but when the wind don't blow change to the Economy. It will save you time and money. You can have water whenever you want it, whether the wind blows or not, the year around, and the total cost will be but a few cents a day, and the engine will do other work besides.

Our 2-Horse Power Economy Gasoline Engine connected with an ordinary windmill force pump using a pump jack, will in ten hours and on 2 gallons of gasoline pump about 4,000 gallons of water. Figuring gasoline at 15 to 17 cents a gallon, and including lubricating oil, would make the total cost for pumping this 4,000 gallons of water 40 to 50 cents. All the attention the engine will need during the ten hours' run is to see that the lubricator is working all right and to put a bucket of water in the water hopper about every three hours. The supply of gasoline in the base is sufficient for a full day's run.

If you have any water to pump, no matter how little, you cannot afford to be without a gasoline engine. It saves time and trouble, lightens your labors, it will run the cream separator, washing machine, churn, grindstone, corn sheller, feed grinder, bone cutter, fanning mill and many other machines used on the farm. For prices on pumping outfits see page 30.

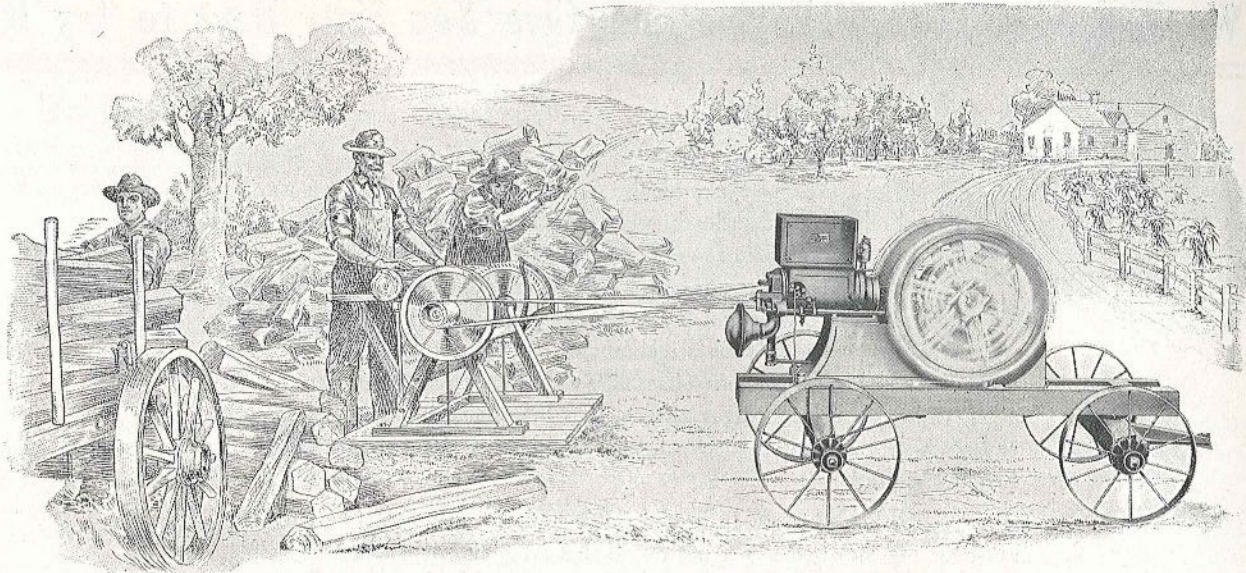
If you want a gasoline engine, pump or pumping outfit, write us and we will be very glad to give you complete information with prices. If you want to irrigate some land, pump water into a tank for water supply to your house or for the stock, advise us where you get your water; if you have a well give us its depth, the size of pipe, size of cylinder, length of stroke, the quantity of water you want to get, what you want to do with it, and we will tell you just what you need and give you prices for engine, pump, piping, everything complete. Address your letter to Department 11, Mechanical Engineers.

---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**





---

---

## The Engine You Need for Your Work

THE QUESTION as to what engine is needed to run certain machines frequently comes up and we have been able to save a great many of our customers considerable time and expense in the purchase of an outfit by showing them where they could use a 2-horse power engine in place of a 4-horse power or a 4-horse power engine in place of a 6-horse power. On the other hand, we have also been able to save our customers a great deal of trouble by showing them how their work could be better and more economically done by a 6-horse power engine instead of a 4-horse power.

The 2-Horse Power Economy Gasoline Engine that we sell for \$42.95 will run the cream separator, washing machine or churn; will pump water, run the grindstone, feed cutter, corn sheller, feed grinder, hay carrier, sheep shearing machine, cider mill, bone cutter or any machine usually run by hand. It only uses 2 gallons of gasoline in ten hours when run under a full load, and requires very little attention.

For all around farm or shop work we recommend our 4-Horse Power Economy Engine. This engine will handle heavier machines, giving you a much larger capacity than would be possible with the smaller engine, and will do the lighter work as well, doing it just as economically, as it only uses gasoline according to the work it does. *It is always a good plan to have plenty of power, as you never know when you will add a few more machines or larger ones to meet your needs.*

Our 6-Horse Power Economy Engine is particularly adapted for wood sawing, custom grinding, threshing machines, ensilage cutters, large bone and feed grinders, etc. It will handle a majority of the larger size machines usually found on the farm and take care of the smaller machines as well, and do it economically. With a 6-horse power engine you can saw wood and do custom grinding for your neighbors, and in this way pay for the outfit in a short time. For this purpose we would suggest our 6-Horse Power Economy Portable Outfit on page 29.

Our 8 and 10-Horse Power Economy Engines are heavy duty engines, built especially for extra heavy work for use on large farms, to run large capacity grinders, in elevators, blacksmith shops, for running large threshers, cane and cotton mills, mining hoists, etc.

If there is any doubt in your mind as to just what size gasoline engine to buy, write us just what machinery you want to run, what work you have to do, giving full particulars, and our gasoline engine expert will tell you just what engine you should buy to get the best results.

---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**



# We Will Ship You an Engine and Give You Sixty Days to Try It

---

---

**L**ET us prove to you that you cannot get along without a gasoline engine. We will take all the risk, and guarantee that you will be entirely satisfied. Send us your order, enclosing our price, and we will ship you immediately any gasoline engine you select. You may use it on your farm for two months, put the engine to every test you can think of, run all the machines you have, compare the engine with any other engine in your neighborhood, regardless of price, and if you don't say you have a bargain (if at the end of the sixty days you can get along without the Economy Engine), ship the engine back to our factory and we will mail you a check at once for the full amount, including the freight you paid.

Remember, you are to be the judge and we want you to be entirely satisfied. If the engine does not do all that we claim, if it is not as simple, and more economical than any gasoline engine you know of, you may return it and get your money back.

## The Guarantee We Make on Every Economy Gasoline Engine

Every Economy Gasoline Engine is guaranteed absolutely and positively. We guarantee that it will satisfy you and give you the service you have a right to expect and that it represents full value for the price you pay. We guarantee to replace at any time any part that gives out on account of defect in material or workmanship, not for one year or even five years, but as long as the engine lasts. We guarantee every Economy Gasoline Engine to be simple, durable and powerful; that it will develop its full rated horse power according to brake test, and develop as much power, do as much work and last as long as any other gasoline engine of equal rated horse power costing twice the price we ask. We guarantee the material used to be the best, and that you can get repairs as long as needed, that they will fit perfectly and without any changes. We further guarantee every engine to reach its destination in perfect condition, and to protect you in every way we can from any loss on an order placed with us.

In deciding what gasoline engine to buy, we would like you to remember our reputation for square and honest dealing, the sixty days' free trial we give with every engine, together with the fact that there is no time limit on our guarantee. You don't want a guarantee that protects you for only one, two or even five years; you want protection against defect as long as the engine lasts, and if you buy from us we protect you absolutely against an unsatisfactory purchase and guarantee satisfaction or your money back.

---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

—8—



## Are We Selling Engines Too Cheap?

---

---

A MANUFACTURER of engines came to us not long ago and said, "You are selling your engines too cheap; there is no good reason for doing so; you are handicapping your own sales by naming such a low price that intending purchasers think your engines are no good, that they are too cheap to be good." "You know," he continued, "people are accustomed to pay high prices for engines and they don't know that a good engine can be manufactured and sold at the prices you quote; therefore they think your engine is no good. You can just as well add \$15.00 to \$20.00 to your prices. You will make more money and will still sell at a lower price than a similar engine could be sold for by the agent or dealer. If you continue naming these low prices we will all be forced to reduce our prices, and I, for one, cannot see why you should want to hurt the business by naming such low prices when you can just as easily get \$15.00 to \$20.00 more per engine, and you know it."

### The Answer to Mr. Engine Builder.

We told this gentleman, whose opinion by the way we value very highly, as he is one of the most successful engine builders in the country: "While all you say is true, that we could get more money for our engines, and that no one that builds and sells engines in the regular way, manufacturing in small quantities, adding jobbers' and agents' commissions, with all the traveling men's expenses, can possibly sell an engine as good as ours at anything like the prices we quote, we are going to continue to sell engines at the prices named in our catalog. We are going to manufacture engines in larger quantities and more economically than any other concern in the United States. We will make the best possible engine for all around work, and we are going to be satisfied, as has always been the policy of this house, with a fair and reasonable margin of profit above the actual manufacturing cost. While you say we are handicapped by naming such a low price, and that the people will think our engines are no good, we firmly believe it will only be a matter of a very short period when prospective buyers will find out we are selling as good an engine as any on the market costing twice our price, and then we will be fully repaid by the number of orders we will receive. We would like to accommodate you, Mr. Manufacturer, for we did not go into this business to hurt the gasoline engine business; we went into it on the broad policy of Sears, Roebuck and Co., to manufacture the best engine that could be made, in the most economical manner, and to sell it to our customers at a price that represented actual cost of material and labor with one small margin of profit added. The mere fact that you, as one of the largest manufacturers of engines in the United States, have come to us, saying we are hurting the trade by quoting such low prices only goes to strengthen our belief in the fact that our policy is right. We would not be selling the number of engines we are today if we were not delivering a high grade gasoline engine at about one-half the price that is charged by retail dealers."

### Free Information Bureau

After reading this catalog over, if there is any information you would like about our gasoline engines, or if you don't know just what size gasoline engine you should have, if you want to buy some farm machinery to be run by a gasoline engine, some line shafting, pulleys, a feed grinder, burr mill, thresher, pumping outfit for irrigating, wood saws, turning lathes; in fact, any machines to be run by power, and you don't know just what engine or equipment to buy, write us and tell us just what you want, and our experts will tell you just what you need. They will tell you just what engine will do your work most economically, what line shafting, pulleys, etc., to buy and will give you prices, together with freight charges to your town, so that you may compare our prices with the prices you would have to pay for the same outfit if you bought it from your local dealer.

We are frequently able to save our customers considerable money on the selection of an engine with outfit by showing them where they can use a 2-horse power engine instead of a 4-horse power engine, or a 4-horse power engine instead of a 6-horse power engine. On the other hand, we have also been able to save our customers a great deal of trouble by showing them how their work could be better and more economically done by a 6-horse power engine instead of a 4-horse power engine, etc.

We will be only too glad to give you full information on this subject. We have a department of mechanical engineers and draftsmen who are at your service. If there is any information you want about power machinery we will be glad to give you such information absolutely free.

Don't hesitate to write us. It will not cost you one penny and you will be under no obligation to buy a single thing from us. Information is absolutely free to you or your friends. Simply address a letter to *Department 11, Mechanical Engineers, Sears, Roebuck and Co., Chicago, Illinois.*

---

---

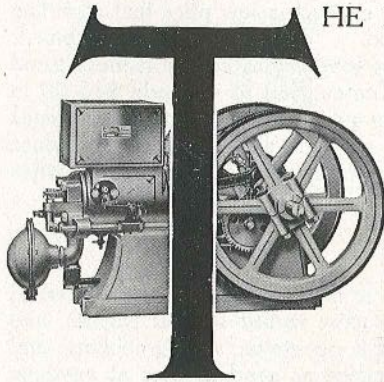
**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

-9-



# How the Economy Gasoline Engines Are Made in Our Own Factory

Every Economy Gasoline Engine is standard, all parts are interchangeable. Repairs will fit perfectly and can be secured on short notice and at small cost. We guarantee satisfaction.

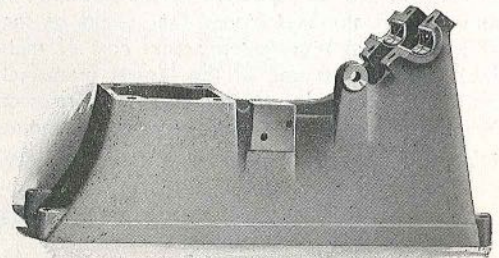


THE ECONOMY ENGINES are not built in a haphazard way to run for a year or two and then be replaced. They are constructed of the best material we can buy, and if properly taken care of should last a lifetime. Every part of the engine is carefully inspected before it is put in place. It must fit perfectly and without any changes. Every part of the Economy Engine is standard. By standard we mean that every piece is like every other piece of the same kind without even one-thousandth of an inch in variation where that degree of accuracy is necessary. All parts are interchangeable and may be replaced without any changes or the use of any special tools. No mechanic is necessary; the ordinary tools found on the farm will do the work. This alone means a great saving in time and expense in replacing worn parts. A complete record is kept of every engine, so that if you ever want any repairs we know just what engine you have and just what to send you. We pay particular attention to all orders for repairs and see that they are shipped the next day after the order reaches us. If you are in a particular hurry for repairs, you may telegraph

the order and we will see that the repairs are shipped the same day your telegram is received. This insures you against any delays and will save you loss of time on an important job.

## THE BASE.

The base for the Economy Gasoline Engine is cast of the best grade of gray iron. It is made of proper proportions to withstand the vibration of the engine and to give the best results. It will last a lifetime. The main bearings are set on an angle of 45 degrees and are particularly long, insuring long life and even lubrication to the bearings. All parts of the base are machined on a large milling machine at one operation, thus doing the work economically as well as accurately. This machine is shown at top of page 13. Every base is machined just like every other base for the same horse power engine, so that all parts are interchangeable and will fit without any changes.



THE BASE.

## FROSTPROOF WATER COOLER.

We use a water hopper on the Economy Gasoline Engine, as it keeps the cylinder at just the right temperature to give the best results. A large water tank is not needed and it adds materially to the cost of the engine. The cylinder of a gasoline engine when running should have a temperature of from 175 to 190 degrees Fahrenheit and even if the temperature rises above this point you will get even better results. If you keep the cylinder too cool you will not get the greatest power from your engine for the amount of gasoline consumed. The water hopper is of just the right size to keep the cylinder at the right temperature. It takes but a few buckets of water each day to keep the hopper full and we have provided a drain cock at the bottom of the cylinder to drain the water to prevent freezing. The care and attention needed for an outfit of this kind is a great deal less than the old tank cooled engine. Ninety-nine per cent of the engines being manufactured today have water hoppers, which demonstrates the fact that they are vastly superior for general purposes.

## THE CYLINDER.

The cylinders are cast of close grain gray iron. They are separate from the base and water hopper and can be easily replaced. Each cylinder is made exactly like every other cylinder for the same horse power engine, insuring a new cylinder to fit perfectly and without any changes. Each cylinder is fitted with drain cock at the bottom to let out the water, which prevents freezing in the winter time and makes the engine absolutely frostproof. These cylinders are bored and reamed on the large machines as shown on page 15.

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

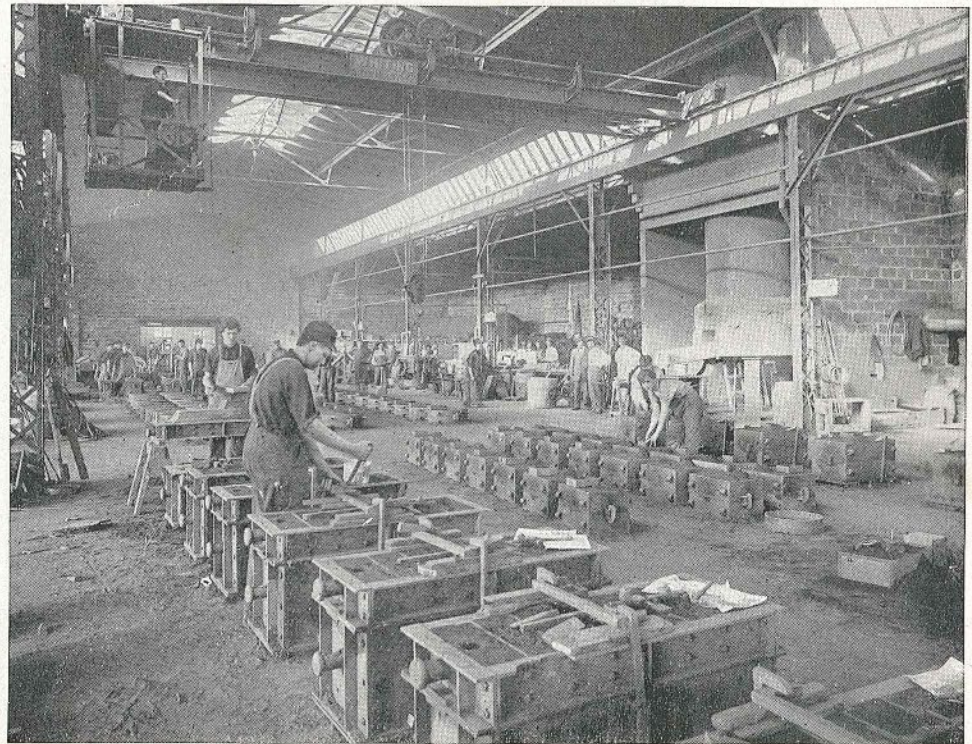
-10-





In the center of this illustration is a big cupola for melting iron. The cables just in front are from the electric crane which handles the large crane ladle carrying two tons of iron at one time. With this ladle two men are able to pour the large castings, such as bases, fly wheels, cylinders, etc., that would otherwise require a dozen men to handle. While two men with this ladle are pouring the large work, the other men with small bull and hand ladles shown on the floor are pouring the smaller parts. In this way an entire day's work of molding can be poured in half an hour, enabling the men to make many more castings in a day than would otherwise be possible, which illustrates one of the economies practiced in manufacturing our engines.

This is the molding floor with cupola to the right and electric crane overhead. Nearly all molding for the Economy Engines is done with molding machines, insuring all parts being just alike and perfect in every way. With these machines we are able to turn out twice as many castings as could be made by the same number of men if they molded by hand. This alone reduces the foundry cost of the castings about one-half, and the handling of all large castings, molds, etc., with the electric crane from overhead means another great saving on the cost of production. This illustration shows less than one-half of the entire foundry.



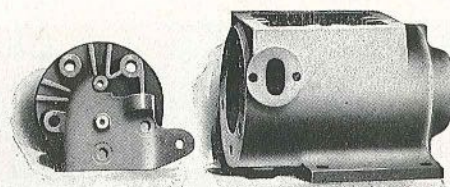
**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

-11-



## THE CYLINDER HEAD

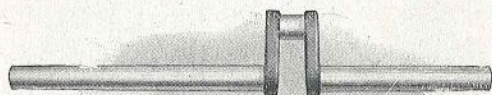
The cylinder head is made of the best grade of gray iron and is fastened to the cylinder with five bolts, the joint being made secure with the best grade of asbestos. The intake and exhaust valves are located in the cylinder head and are of the proper size to give the best results. They are controlled by special tempered springs; the intake valve is operated by the suction of the piston, the exhaust valve by the cam gear, which insures the valves opening and closing at the right time.



CYLINDER AND HEAD.

## DROP FORGED CRANK SHAFT

The Economy crank shaft is drop forged from the same steel and in the same manner as the shafts for the highest grade automobile. We furnish a finished shaft with forged cheeks that is vastly superior to the milled shaft in which the stiffening effect is lost when the cheeks are machined. Each shaft is finished within one-thousandth of an inch on the large lathe as shown on page 17 and has the standard key way.

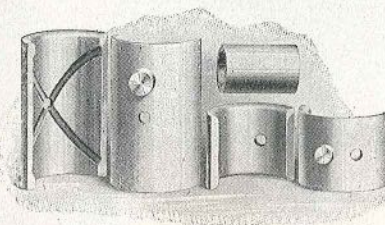


CRANK SHAFT.

## DIE CAST BABBITT BEARINGS

The bearings used on the Economy Engines are die cast from genuine babbitt. The grade we use is that used on all high grade engines and automobiles. All bearings are removable and may be replaced when worn out and are so arranged that you can take up the wear. The main bearings are set on an angle of 45 degrees and are provided with oil grooves, as shown in the illustration, insuring long life and even lubrication.

Babbitt is much more satisfactory for bearings than bronze as it takes less lubrication, and if you ever forget to oil the engine and the bearings run hot, the babbitt melts and can be replaced for a few cents where the bronze would score and cut the crank shaft and you would have to buy an expensive shaft, as well as new bearings.



BEARINGS.

## THE PISTON AND RINGS

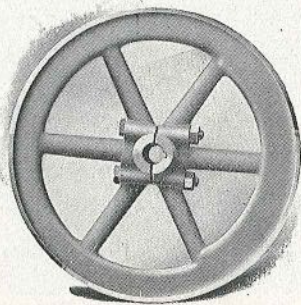
The piston is made of close grain gray iron turned to size and then ground to a perfect fit; the rings are turned and ground and are accurately fitted, insuring perfect compression. The piston pin is steel, case hardened, and is fastened with a set screw so it cannot work loose.



PISTON AND RINGS.

## THE CONNECTING ROD

The connecting rod is of the I beam type, made of malleable iron, and we have never known one to break. The crank shaft and piston pin bearings are die cast, both of which can be removed and replaced at small cost and with very little trouble, and provision is made for taking up wear.



FLY WHEEL.



CONNECTING ROD.

## THE FLY WHEELS

The fly wheels are of the proper weight and are counterbalanced so as to carry a load at all speeds with the least vibration. Each wheel is turned and is securely fastened to the crank shaft by key and bolts, making it impossible for the wheels to work loose, yet they are very easily removed. These wheels are machined on the large vertical boring and turning lathe, as shown at the bottom of the opposite page, which insures all wheels being exactly alike.

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**



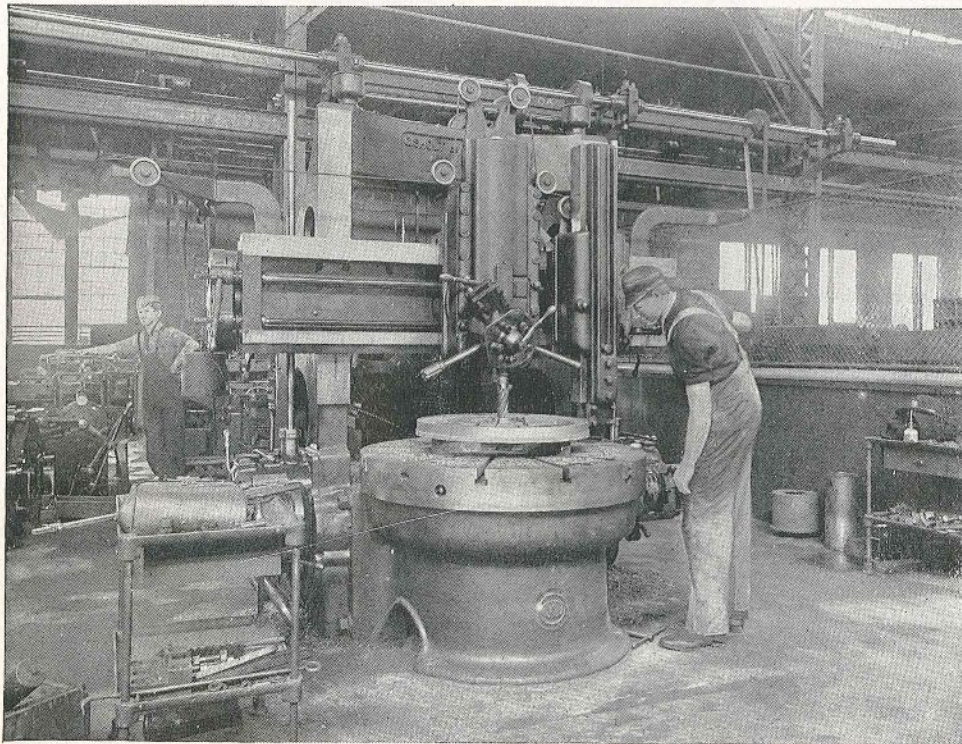
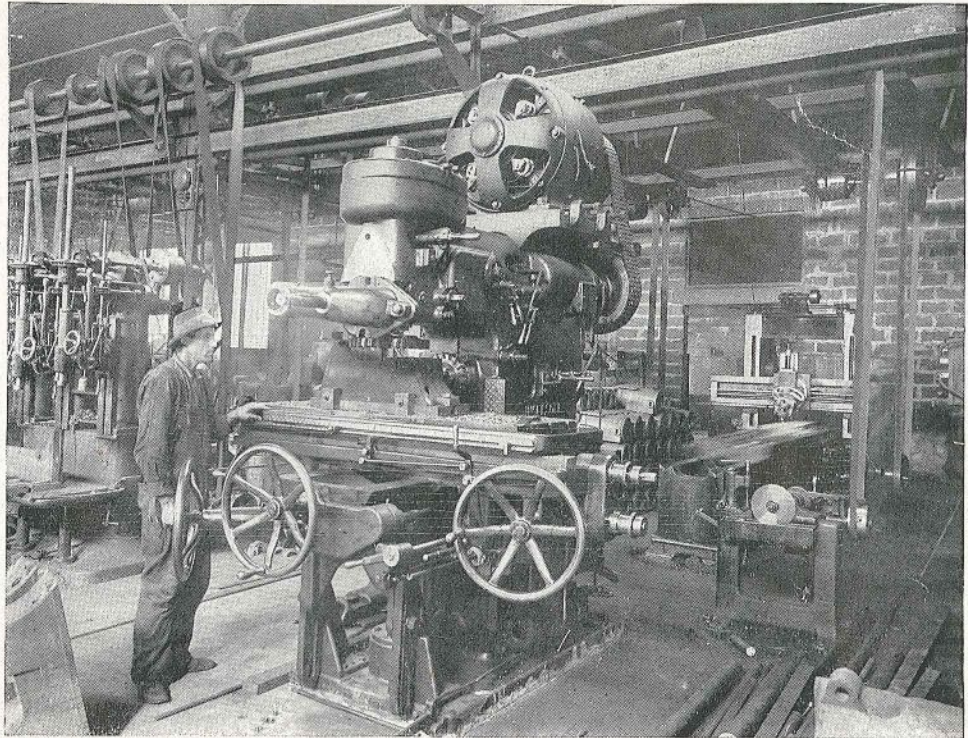
---

---

This is one of the largest milling machines used exclusively for manufacturing gasoline engines. It was designed and built specially for our use. It is used in milling the bases, milling all parts in one operation. It is automatic and with this machine one man can do the work of three machines ordinarily used in this work by other manufacturers and is but another illustration of the economy in manufacturing when high grade automatic machines are used. This machine also insures accuracy and the interchangeability of all bases.

---

---



---

---

This is an illustration of the vertical boring and turning mill operated by one man and used to bore and finish the hole in the center and turn the rim of the fly wheel both in the same operation. It does the work quickly and accurately and will turn out more fly wheels than four of the ordinary machines operated under the old method, such as is used in a great many of the gas engine factories today. This one operation enables us to save considerable on the cost of building the Economy, which all helps to reduce the cost and accounts for our low prices.

---

---

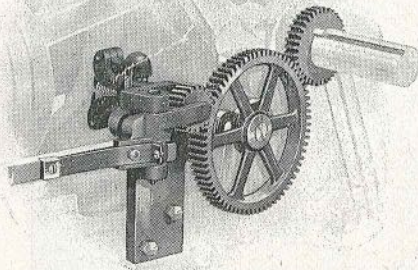
---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

-13-





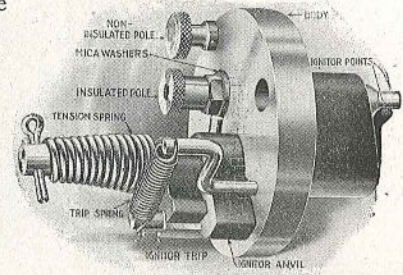
THE GOVERNOR.

## THE GOVERNOR

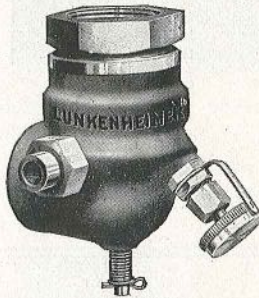
The governor on the Economy Gasoline Engine is very simple; there are very few parts; it is of the hit and miss type; it is very sensitive and keeps the engine at a steady speed. When the engine runs beyond its regular speed the governor balls widen their circuit, causing the lever on the governor to catch the rod that runs along the side of the engine, opening the exhaust, shutting off the gasoline and stopping the spark, in this way saving gasoline and the batteries, making the engine very economical. All parts of the governor are accurately fitted; they are made of the best material and will need no attention. When the engine is shipped the governor is properly regulated so that the engine will run at its regular rated speed, in this way giving full power of the engine at the least expense for gasoline.

## MAKE AND BREAK IGNITER

The igniter shown at the right is of the make and break type; the battery wires are fastened to the insulated and non-insulated poles; the igniter trip is worked with a lever on the cam rod, so as to bring the two igniter points together. They are then released, which gives a spark at just the right time to explode the gas in the cylinder. This igniter is very simple and is easily taken care of. The igniter trip lever located on the cam rod that throws the igniter trip, causing the spark, is arranged so that it may be adjusted to advance or retard the spark when necessary to get best results.



IGNITER.



GENERATOR.

## THE GENERATOR

We furnish the Lunkenheimer generator or mixing valve, as it is acknowledged as being the best and most economical generator on the market. This generator is so constructed as to supply the proper mixture of gasoline and air to the cylinder. The gasoline is fed in through the tube at the left, as shown in the illustration, and the supply is controlled by the numbered dial, the air coming in through the opening at the back of the generator. It is only necessary to regulate the supply of gasoline; no adjustment of the air is needed. The amount supplied is sufficient under all conditions to furnish just the right mixture. The small pin on the bottom of the generator is for flooding the generator in the winter time, which makes it easy to start the engine. This generator is simple, economical and gives the best results under all conditions.

## TESTING AND INSPECTION

Every Economy Gasoline Engine is thoroughly tested and inspected before it is shipped. Every part is examined carefully several times before the engine is assembled and must fit properly and work perfectly. After the engine is put together it is again thoroughly inspected and in the testing room is run on a limbering block and then under a heavy brake load till we are sure it develops its full rated horse power and that it is in perfect running order. This rigid inspection makes it almost impossible for any defective material to go out in an engine, so that when it reaches you all you have to do is connect the batteries, put in the gasoline, and the engine is ready to run.

## THE FINISH

Every Economy Gasoline Engine is carefully finished and then painted red, striped with black, as shown in the colored illustrations in this catalog. The painting of the engines is done under the direct supervision of a competent paint foreman, who goes over all the work before the engines are finally turned over to the shipping room. Each engine receives careful attention and will compare in finish with other high grade engines selling for twice the price we ask.

## THE EQUIPMENT FURNISHED WITH EVERY ECONOMY ENGINE

Every Economy Engine is complete and ready to run, with six dry batteries and spark coil in a neat box, with a rubber base knife switch on the outside and wire to connect the batteries to the engine. We also furnish one pair of combination pliers and forceps, two wrenches, one oil can, 1 quart of the best cylinder oil, one box of grease and a funnel for filling the gasoline tank; also book of instructions which explains how to start, operate and care for the Economy Engine. This book also gives illustrations and prices of all repair parts.

## PULLEYS

The size of pulleys furnished on Economy Engines is given with the description of the engines. These sizes are standard and should not be changed unless absolutely necessary. If it is necessary that you have a pulley of different diameter or width in order to get more speed, add to the price of the engine 25 cents for each additional inch in diameter or width. To tell the size of pulley required for your work, refer to the rules given on page 34.

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**



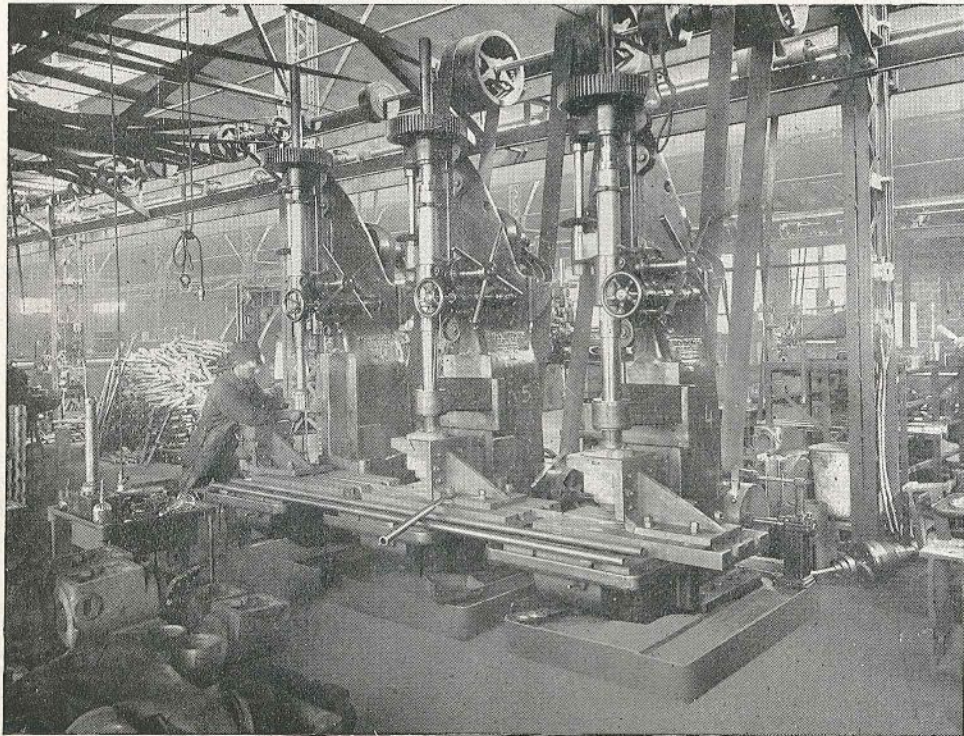
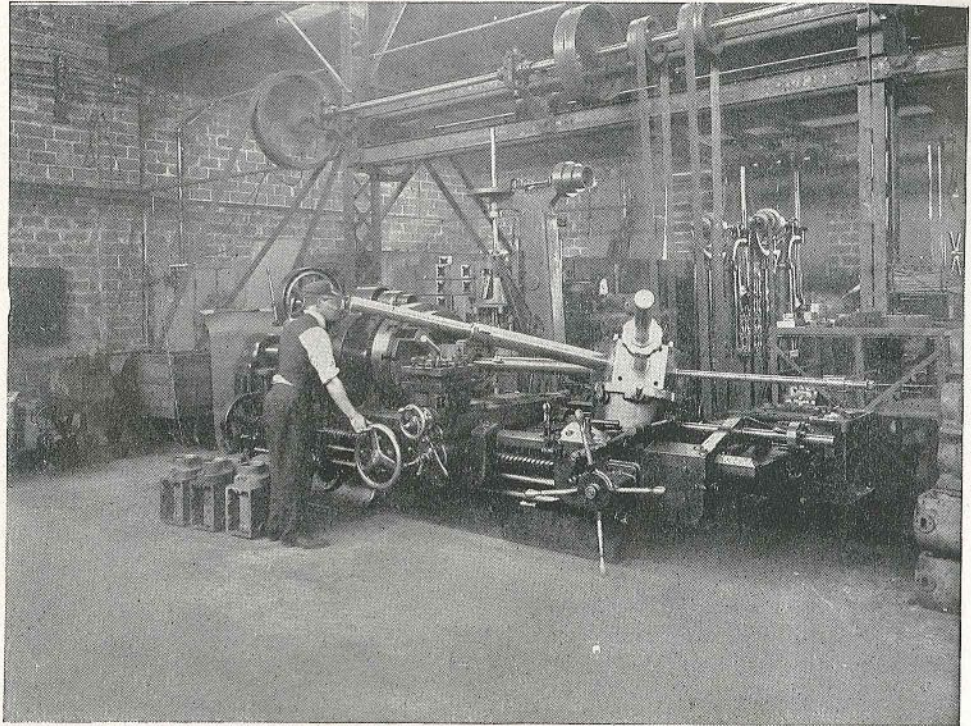
---

---

This is a turret lathe used in boring large cylinders. It was just recently purchased by us to replace three other machines doing the same work. A rough cylinder is fitted in this machine and in three operations is finished ready to be put in the engine. The work is done quickly and accurately to within one one-thousandth part of an inch. This lathe was built especially for us and is of the same design as used by the government for finishing the very expensive shells used in the high power coast defense guns, so that cylinders finished on this machine are made with as much accuracy as are the highest priced projectiles used in the United States Navy.

---

---



---

---

The Baker mills shown in this illustration are used for boring the small cylinders, one man operating the three machines at the same time. A rough cylinder casting is fitted in a jig on the machine shown at the right of the illustration and first receives a roughing cut. In the meantime the center machine is boring the finishing cut through another cylinder which has already had the roughing cut and the machine on the left is reaming the last four-thousandth of an inch necessary to insure a straight hole and perfect accuracy of the cylinder. These three jigs are exactly alike and after the roughing cut is made the cylinder is moved to the next machine for the next operation. When the cylinder is complete it is removed from the jig and the jig slides back along the parallel bars shown in the front of the illustration to the machine at the right and the other two jigs each move forward one machine.

---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

—15—

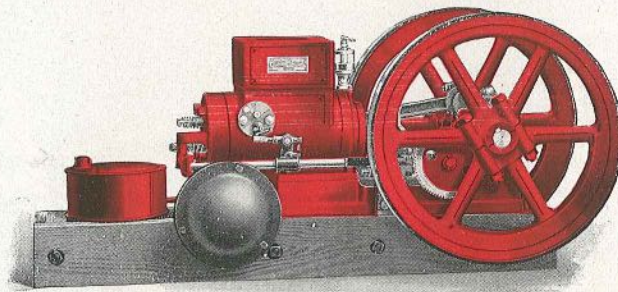


Sixty Days'  
Free Trial.  
Satisfaction  
Guaranteed

## Little Wonder Economy Gasoline Engine

1½-HORSE POWER

There Is No  
Time Limit  
On Our  
Guarantee



No. 11A4509 1½-Horse Power Stationary Gasoline Engine. Price - - - - - **\$29<sup>95</sup>**

THIS ENGINE GUARANTEED EQUAL TO ANY ENGINE SELLING FOR TWICE OUR PRICE.

**TYPE**—Four-cycle, water cooled.  
**BORE**—3¾ inches. **STROKE**—5½ inches.  
**SPEED**—450 revolutions per minute.  
**FLY WHEEL**—Diameter, 20 inches. Weight, 60 pounds.

**PULLEY**—8 inches in diameter; 4-inch face.  
**SHIPPING WEIGHT**—480 pounds.  
**FLOOR SPACE REQUIRED**—24x40 inches.  
**CRANK SHAFT**—Drop forged, 1½ inches in diameter.

*Shipped from our factory at Sparta, Michigan.*

THIS LITTLE WONDER ECONOMY GASOLINE ENGINE is the greatest value in a small horse power engine because it gives more horse power for the money than was ever offered by anyone. If you can use a 1½-horse power engine we would like to have you try this Little Wonder for sixty days. It is built in the same shop, by the same high grade workmen and on the same high grade machines as our higher priced engines. It is fully tested and inspected before being shipped and we guarantee it to be absolutely satisfactory.

We build this Little Wonder to supply the demand for a small engine, and while we guarantee it to be high grade in every respect and that it will develop its full rated horse power, we want to caution you not to buy too small an engine. It has been the experience of most everyone who buys a gasoline engine that after they have purchased a small engine they find that there are other things they could do if they had more power, thus saving time and money, and we really believe that nothing less than a 2-horse power engine should be used for any kind of work.

In buying a gasoline engine you want to be sure to have plenty of power. For farm and shop use we would not recommend less than a 4-horse power engine, as you will find after using a gasoline engine that there are a great many other things that you can do that you never thought of before, and it will only be a short time until you will need more power than you can possibly get from a 1½-horse power engine. A 6-horse power engine is even better than a 4-horse power; it will save you money in the long run to buy a larger engine. We don't want you to misunderstand us, however, for if a 1½-horse power engine will do your work and you are sure of it, don't buy an engine any larger.

*For complete description of how this gasoline engine is made, please read pages 10, 12 and 14.*

Before ordering a gasoline engine we suggest that you study over the different things that you can do with it. Look into the future and see what machines you are going to use in the next year or two; then, if you are not sure as to what size engine you need, write us just what work you want to do and we will be glad to tell you just what size engine will do your work most economically, both as to the original cost and the running expense of the engine.

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

—16—



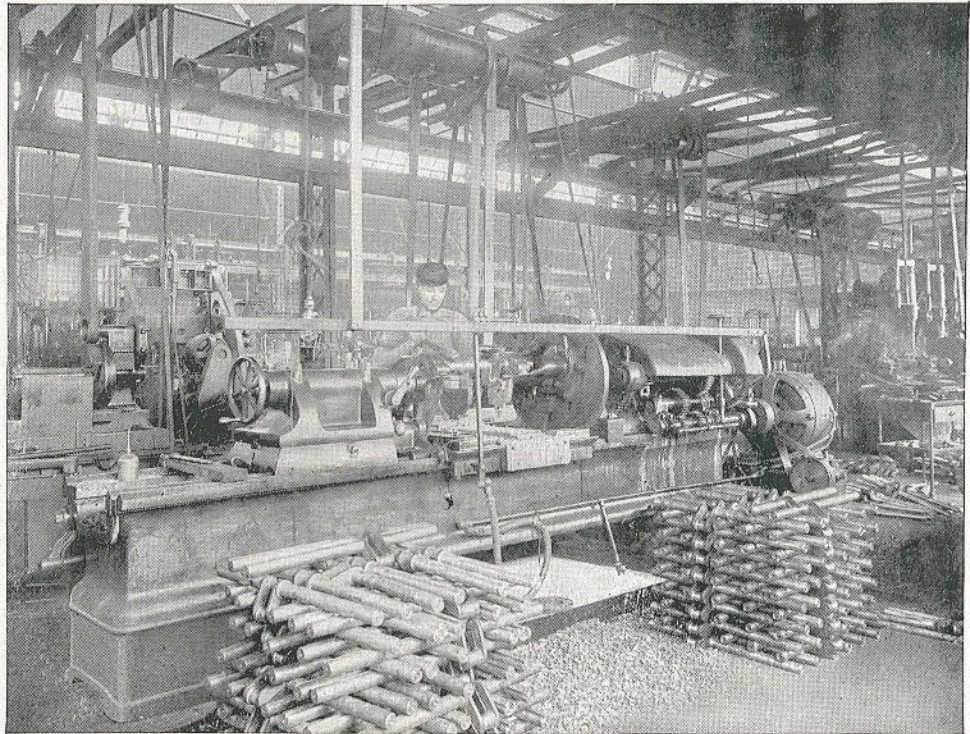
---

---

This is a picture of a large lathe designed and built specially for our use. It does nothing else all day but turn and finish crank shafts. The special tools used insure all crank shafts being interchangeable. Each crank shaft is like every other crank shaft of the same horse power engine within one one-thousandth part of an inch. This lathe with one man to run it will turn and finish twice as many crank shafts as it is possible to get from the ordinary machines generally used for this purpose, reducing the cost of turning and finishing crank shafts about one-half. This machine alone turns and finishes about seventy-five crank shafts in one day.

---

---



---

---

This is the assembling floor where the Economy Gasoline Engines are put together. The base is first fastened on to a special truck; the other parts are then added until the engine is complete. An engine never leaves this truck until it is crated ready for shipment. This feature alone saves thousands of dollars in a year's time in the expense of handling and in the economy of floor space. No changes are made in any of the parts as they are put on the engine. If they do not fit to a very small fraction of an inch they are thrown out, as every part must be like every other part of the same kind. The system in this department is such as to enable a very few expert workmen to assemble a great many engines in a day.

---

---

---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

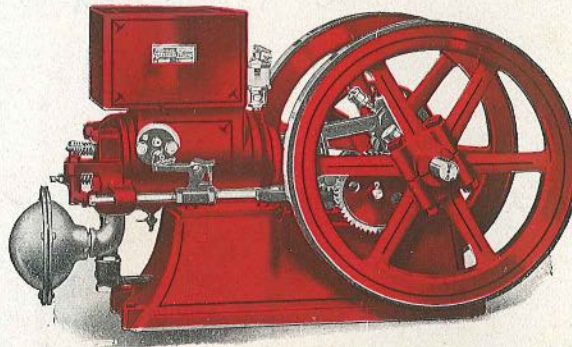
-17-



Sixty Days'  
Free Trial  
On Your  
Farm

**Economy Stationary Gasoline Engine**  
2-HORSE POWER

There Is No  
Time Limit  
On Our  
Guarantee



No. 11A4510 2-Horse Power Stationary Gasoline Engine. Price - - - - - **\$42<sup>95</sup>**

THIS ENGINE GUARANTEED EQUAL TO ANY ENGINE SELLING FOR TWICE OUR PRICE.

TYPE—Four-cycle, water cooled.  
BORE—4 inches. STROKE—6 inches.  
SPEED—450 revolutions per minute.  
FLY WHEEL—Diameter, 22 inches. Weight,  
65 pounds.

PULLEY—8 inches in diameter; 4-inch face.  
SHIPPING WEIGHT—550 pounds.  
FLOOR SPACE REQUIRED—25x40 inches.  
CRANK SHAFT—Drop forged, 1½ inches in diameter.

*Shipped from our factory at Sparta, Michigan.*

OUR 2-HORSE POWER ECONOMY GASOLINE ENGINE may be used for running machinery usually operated by hand, such as feed cutters, grinders, grindstones, cream separators, washing machines, churns, sheep shearing machines, small lathes, drill presses, pumps, etc. This engine is equal to any engine of equal rated horse power on the market and for light work it cannot be beat. You should be very careful, however, in selecting a gasoline engine to be sure you have enough power, as it will save you buying a larger engine later on. We recommend our 4-horse power engine for general work on the farm or in the shop. A 6-horse power engine is even better, as you will find after using a gasoline engine that there are a great many things that you can do that you never thought of before. If you are not exactly sure as to just what size engine you will require, write us before placing your order. At our price the engine is all ready to run, with gasoline tank in the base, dry batteries, spark coil, wire, pliers, monkey wrench, oil can, 1 quart of oil and one box of grease; also a complete instruction book which explains how to care for and operate the engine.

*For complete description of how our gasoline engines are made, please read pages 10, 12 and 14.*

Don't hesitate to write us for any information about any of our engines or about any farm machinery, line shafting, pumping outfits, etc. If you don't know just what size engine to buy, write us before ordering, giving full particulars, and we will tell you just what you need and quote prices on a complete outfit if you so desire.

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

—18—



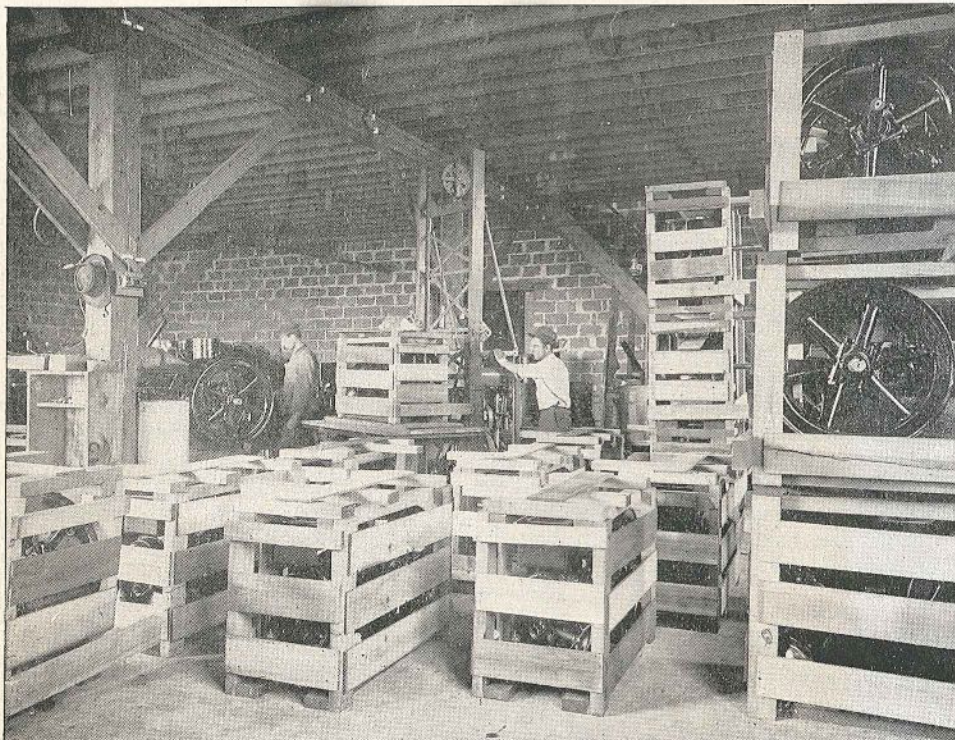
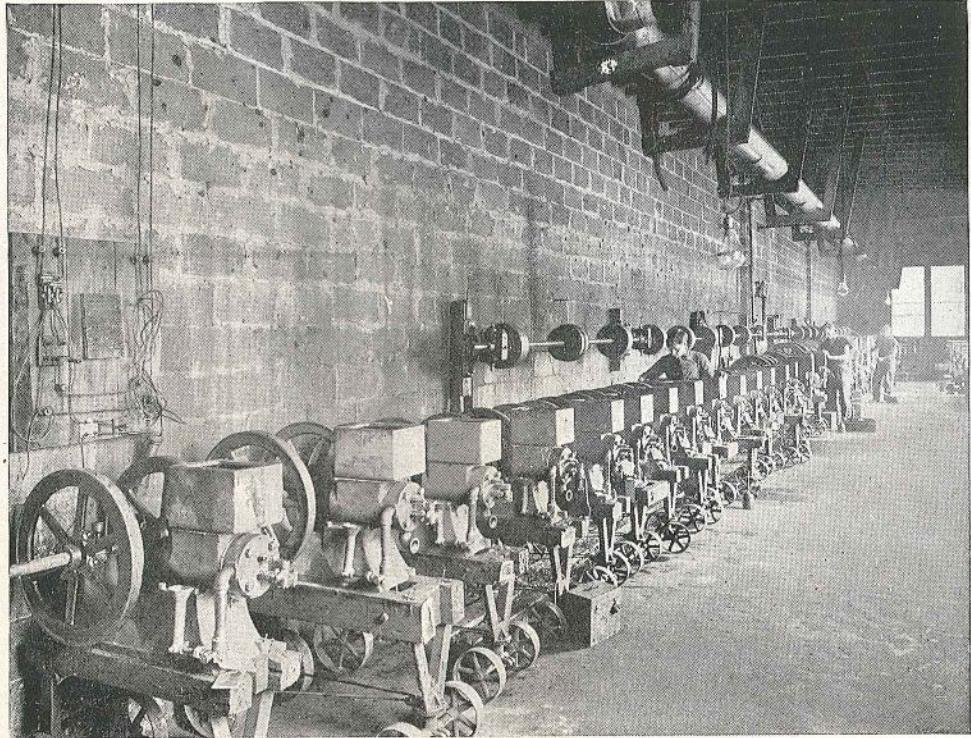
---

---

This is a view of one side of our testing room showing the first half of a lot of fifty 2-horse power engines being tested ready for painting. Each engine is gone over carefully for any defects in material or workmanship and to see that all parts are properly adjusted. Each engine is also run for several hours from the line shaft at the back of the engines until all parts are worn smooth. It is then run on its own power under a heavy brake load for several hours until it develops its full rated horse power and speed. The work in this department is systematized so it is possible to test this entire lot of engines at once, thus reducing the cost for testing and still insuring accuracy and a perfect engine when shipment is made.

---

---



---

---

This is a corner of our shipping room showing our method of crating, which insures the engine reaching destination in perfect condition. After being crated the engines are put in storage ready for shipment, being stacked in tiers three high, as shown at the right of the illustration. This work is done by the electric tiering machine in the center which enables one man to stack engines that would take dozens of men to handle in the ordinary way. All engines are loaded direct in the cars so there is no teaming or extra handling. Two men with special hoisting machines do all the loading and we ship several carloads of engines each day, consequently our expense for handling is very small.

---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

-19-

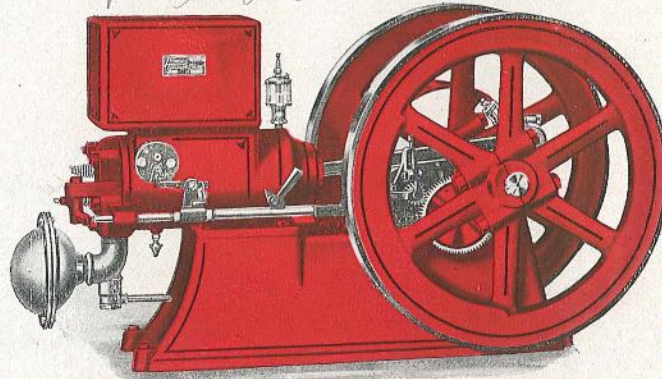


Sixty Days'  
Free Trial  
On Your  
Farm

*Black* Economy Stationary Gasoline Engine

4-HORSE POWER

There Is No  
Time Limit  
On Our  
Guarantee



No. 11A4511 4-Horse Power Stationary Gasoline Engine. Price . . . . . **\$74<sup>75</sup>**

THIS ENGINE GUARANTEED EQUAL TO ANY ENGINE SELLING FOR TWICE OUR PRICE.

**TYPE**—Four-cycle, water cooled.

**BORE**—4½ inches. **STROKE**—9 inches.

**SPEED**—400 revolutions per minute.

**FLY WHEEL**—Diameter, 26 inches. Weight, 135 pounds.

**PULLEY**—12 inches in diameter; 6-inch face.

**SHIPPING WEIGHT**—775 pounds.

**FLOOR SPACE REQUIRED**—29x47 inches.

**CRANK SHAFT**—Drop forged, 1¾ inches in diameter.

*Shipped from our factory at Sparta, Michigan.*

WE RECOMMEND OUR 4-HORSE POWER GASOLINE ENGINE FOR GENERAL FARM WORK; it is very powerful and will run the usual size of machines found on the average farm. It will also run some of the larger machines, but will give a limited capacity. It will take care of all machines usually run by hand, small grinders, corn shellers, shredders, light ensilage cutters, wood saws from 20 to 24 inches in diameter and many other light power driven machines. For shop work it will handle all machines usually run by hand, together with light lathes, drill presses, forges, planers, shapers, trip hammers, etc. We guarantee this engine to be equal to any 4-horse power gasoline engine on the market, and for ordinary work is just the size you want. You should be very careful, however, in ordering a gasoline engine to be sure it will do the work you have for it and the work that you may have for it in the future. If you have a grinder with more than the ordinary capacity it may run it, but will give you a limited capacity. If you want full capacity you should buy nothing less than a 6-horse power engine, and on the larger sizes an 8 or 10-horse power is necessary. Don't buy a larger engine than the 4-horse power if this one will do your work, but we want you to be sure that you have plenty of power. If there is any doubt in your mind, be sure to write us before placing your order. At our price the engine is all ready to run, with gasoline tank in the base, dry batteries, spark coil, wire, pliers, monkey wrench, oil can, 1 quart of oil and one box of grease, also a complete instruction book, which explains how to care for and operate the engine.

*For complete description of how our gasoline engines are made, please read pages 10, 12 and 14.*

Don't hesitate to write us for any information about any of our engines or about any farm machinery, line shafting, pumping outfits, etc. If you don't know just what size engine to buy, write us before ordering, giving full particulars, and we will tell you just what you need and quote prices on a complete outfit if you so desire.

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**



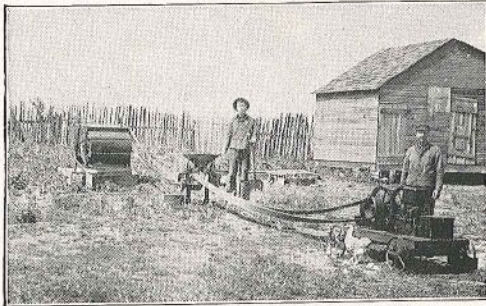
R. F. D. No. 1, Summit City, Mich.  
Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—The picture which I sent you shows the 2-horse power Economy Gasoline Engine which I bought of you running a 12x12 bean huller. Will say that the Economy Engine is all that you claim for it. It is a high grade engine and the cheapest I could buy. My local dealer wanted \$87.00 for a 1-horse power engine and \$125.00 for 2-horse power engine. When I want another engine I will surely buy the Economy as it is all right. Am very well satisfied with my purchase.  
Yours respectfully,  
A. E. BRYANT.

R. F. D. No. 2, Leslie, Mich.  
Sears, Roebuck and Co., Chicago, Ill.

Dear Sirs:—Received your 6-horse power Economy Gasoline Engine. It is the most simple constructed, easily handled or controlled engine I ever saw. I had no trouble in putting it up and starting. It was running in less than thirty minutes after it was unloaded. My friends and neighbors think it is rightly named, as it is very economical.

Yours truly,  
FRED BANCROFT.



Waynoka, Okla.

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—The little 2-horse power gasoline engine I purchased of you nearly two years ago is still doing duty as good as ever. It has not cost me one cent for repairs and is always ready to go when I turn the crank. It is Economy by name and by nature. It does more work on less gasoline and batteries than any engine of any other make in the neighborhood. I use this engine to churn, wash, separate the cream, turn the grindstone and fanning mill, grind chop meal, etc., pump water when the wind don't blow, run a hay fork and a small grain elevator. The heaviest work I do with it is thresh kafir corn with an Owens No. 4 double cylinder bean huller. This is heavy work, but I can thresh 100 bushels with less than 2 gallons of gasoline and have all the power I need. I saved over \$50.00 by purchasing this engine from your house.

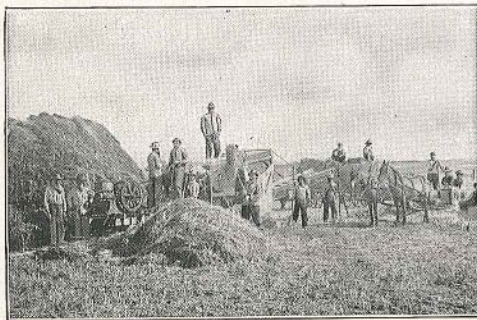
Respectfully,  
J. A. GREEN.

Cedar Bluffs, Neb.

Sears, Roebuck and Co., Chicago, Ill.

Dear Sirs:—I like the Economy Gasoline Engine that I got from you very much. It is the best engine that I have ever run. It is the easiest to start and has the best power. I saw wood with a 28-inch saw. I can cut thirty cords of stove wood in ten hours and 2 gallons of gasoline lasts all day. I saw wood, grind feed, pump water and run a feed cutter with my engine. It saves at least one-half of the labor, and I saved about \$60.00 by sending to you for my engine. That is certainly worth saving. The small amount of water that it takes to keep the cylinder cool is a great saving of time. I think every farmer ought to have one of your engines; they are so much better than a windmill.

Yours truly,  
W. H. BRUNING.



R. F. D. No. 5, Box 91, Pelican Rapids, Minn.  
Sears, Roebuck and Co., Chicago, Ill.

Dear Sirs:—Maybe it will interest you to see what can be done with the little gasoline engine I bought of you. I sawed twelve loads of green poplar wood and four loads of hard oak, some quite big. All this was sawed with the 2-horse power gasoline engine in four hours and forty minutes. My profit was \$3.75 for the job. There were four men besides myself and they had all they could do to furnish the wood. I can saw just as fast with this one as another man near here with an F. M. Engine that cost \$135.00, nearly three times as much as mine. I am going to sell this engine and get one of your 4 or 8-horse power engines and a 30-inch cord wood saw but I have so much sawing now that I cannot take time to rig one up, so I must use this one this spring, but after the sawing is done, I will send for one and rig it up for the summer time, as there is a lot of sawing done in the woods during the summer time.

Yours truly,  
B. M. THORSON.

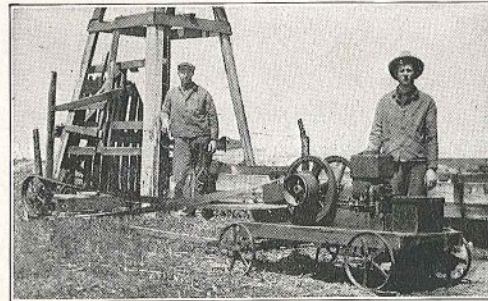
Belding, Mich.

Sears, Roebuck and Co., Chicago, Ill.

Dear Sirs:—The gasoline engine that I ordered of you about two months ago came all right. I had it started in about fifteen minutes after getting it home, and it has not bothered me a bit. It starts quick and easy, and I am very well pleased with it, and I am going to keep it. We have always been entirely satisfied with the goods ordered from you. It surely means a great saving.

Thanking you for your kind trial offer on the engine, I remain your satisfied customer.

Yours truly,  
LEE LUSCOMBE.



Rhôme, Texas.

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—I received your 6-horse power Economy Gasoline Engine. It came in good condition and I found it as you represented it to be. I use it to run one of your corn mills and a 26-inch wood saw. It pulls them nicely. I like the engine better than any engine I ever saw; it has not given a minute's trouble. I saved \$150.00 by buying from you.

Yours truly,  
J. H. TROXELL.

St. Jo, Texas.

Sears, Roebuck and Co., Chicago, Ill.

Sirs:—I write you concerning the 6-horse power Economy Gasoline Engine that I bought from you last spring. I want to say that it has proved to be a much better engine than I expected. Have never had any trouble at all. It runs smooth, pulls well and is easily started. I have been running a 24-inch thresher with 16-foot straw stacker with it and it pulls it with ease. Have choked the thresher but have never pulled the engine down. My neighbors were astonished at so small an engine pulling a thresher. I send you a post card picture of the machine in the field. The thresher and engine are mounted on one truck.

Yours truly,  
T. D. BAILEY.



---

---

Sixty Days'  
Free Trial  
On Your  
Farm

---

---

## Economy Stationary Gasoline Engine

6-HORSE POWER

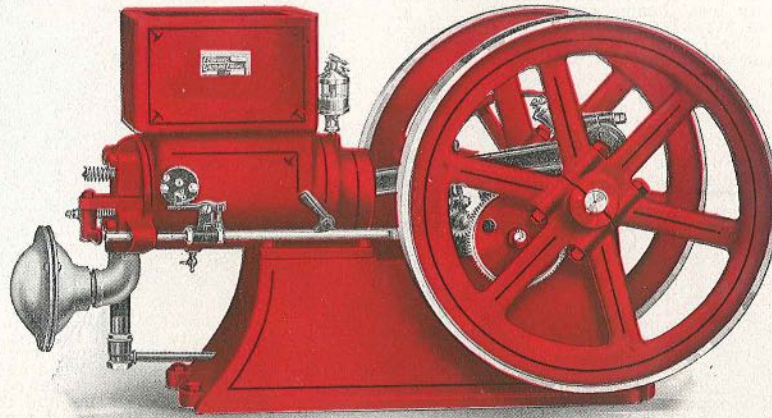
---

---

There Is No  
Time Limit  
On Our  
Guarantee

---

---



No. 11A4512 6-Horse Power Stationary Gasoline Engine. Price . . . . \$104<sup>45</sup>

THIS ENGINE GUARANTEED EQUAL TO ANY ENGINE SELLING FOR TWICE OUR PRICE.

---

---

**TYPE**—Four-cycle, water cooled.  
**BORE**—5½ inches. **STROKE**—10 inches.  
**SPEED**—375 revolutions per minute.  
**FLY WHEEL**—Diameter, 30 inches. Weight, 185 pounds.

**PULLEY**—16 inches in diameter; 8-inch face.  
**SHIPPING WEIGHT**—1,050 pounds.  
**FLOOR SPACE REQUIRED**—31x56 inches.  
**CRANK SHAFT**—Drop forged, 2 inches in diameter.

*Shipped from our factory at Sparta, Michigan.*

OUR 6-HORSE POWER ECONOMY GASOLINE ENGINE is our most popular size. It is just the right size to handle all machines usually found on the farm, and is not too large to handle the light work as well and do it economically. It is particularly adapted for heavy work, such as wood sawing, saws from 24 inches to 28 inches in diameter, burr mills, ensilage cutters, small threshers, large pumps for irrigating purposes, custom grinding and for line shaft work where a number of light machines are to be run at the same time. It is thoroughly tested and inspected, shipped on sixty days' trial and there is no time limit on the guarantee. At our price the engine is all ready to run, with gasoline tank in the base, dry batteries, spark coil, wire, pliers, monkey wrench, oil can, 1 quart of oil and one box of grease, also a complete instruction book which explains how to care for and operate the engine.

*For complete description of how our gasoline engines are made, please read pages 10, 12 and 14.*

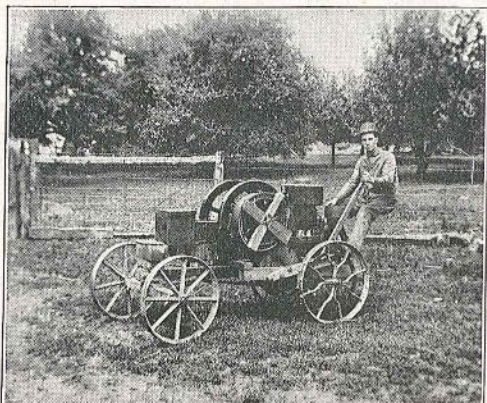
Don't hesitate to write us for any information about any of our engines or about any farm machinery, line shafting, pumping outfits, etc. If you don't know just what size engine to buy, write us before ordering, giving full particulars, and we will tell you just what you need and quote prices on a complete outfit if you so desire.

---

---

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**





Adams, Ore.

Sears, Roebuck and Co., Chicago, Ill.

Dear Sirs:—I am well satisfied with the engine I purchased from you. I saved money by buying from you. Your instructions made the engine very easy to start. I think the engine is in every respect what you advertise in your catalog and I can cheerfully recommend it to any of your customers.

Yours very truly,  
J. T. LIEUALLEN.

R. F. D. No. 2, Box 61, Bedford, Penn.

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—Just a few lines to tell you that I received the 2-horse power Economy Gasoline Engine you sent me in first class condition. I did not have the least bit of trouble to start it. It started right off the first time I tried to start it and has been running just fine ever since. I run a 20-foot line shafting to which I run your Economy Cream Separator, barrel churn and Golden Crown rotary washing machine. I run them all at the same time and the engine runs as easy as when running empty. Your engine is simple in operation. It is like everything else that you sent me (I have ordered something out of each department listed in your catalog), the best money can buy for the least price. An agent for the I. H. Co. asked me \$110.00 for a 2-horse power engine and I only paid \$48.95.

Yours truly,  
CHAS. H. PHILLIPS.



Detroit, Minn.

Sears, Roebuck and Co., Chicago, Ill.

Dear Sirs:—I am well pleased with the engine I bought of you. I use it for sawing wood and grinding feed. I find it a great time saver as well as money saver. It paid for itself last winter and brought me in a good many dollars besides. I would not be without it for a good deal. I easily saved \$50.00 by buying from you. I can saw as much wood with it as they do with any other make of gasoline engine and it is the simplest and easiest engine to start I ever saw. I would advise every farmer to buy one as they can save enough time in six months to pay for it in the common everyday work on the farm.

Yours very truly,  
F. A. MESKIMEN.

Dalbo, Minn.

Sears, Roebuck and Co., Chicago, Ill.

Dear Sirs:—The Economy Engine that I received two months ago I am perfectly satisfied with. I have now run it every day for a month, sawing wood without the slightest trouble or mishap; it is always ready and starts quickly, no matter how cold, and it runs steady.

Yours truly,  
AXEL LUND.

R. F. D. No. 1, Lisbon, Ohio.  
Sears, Roebuck and Co., Chicago, Ill.

Dear Sirs:—I like my Economy Gasoline Engine all right; I have never had any trouble whatever with it. I think a great deal of it. It is as good as other engines that sell for two times your price. It is easy to operate. I grind feed, cut fodder mostly, saw some wood, too. I think it is a labor saver. I would recommend an Economy Engine to anyone wanting a reliable power.

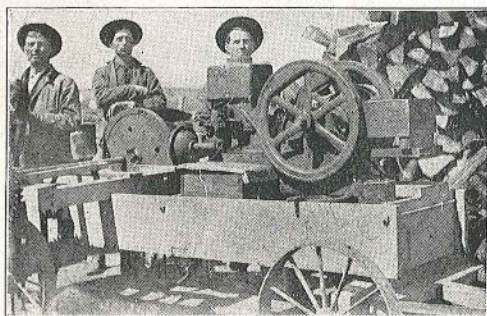
Yours, truly,  
S. D. BAILEY.

Spring Green, Wis.

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—The 4-horse power Economy Gasoline Engine which I ordered of you has arrived and have it in operation for pumping purposes. The engine does all that is claimed for it and more. The simplicity of the Economy is remarkable. A number of the leading farmers in this vicinity have examined the engine and all pronounce it a success. I intend to add wood sawing, feed grinding and running my Economy cream separator on the list to which I will apply the engine.

I wish you success.  
Yours, truly,  
N. B. HOOD,  
Justice of the Peace and Notary Public.



510 N. Main St., Bonham, Texas.

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—I have two of your 2-horse power gasoline engines. One has run eighteen months and the other nine months without a bit of trouble. I also have a 4-horse power engine. These engines are the best I ever saw, **start the easiest, burn less oil, pull a bigger load**, than any gas engine I ever run. Have run six other makes. The book of instructions is perfect and the engines are as described in your catalog, and I would be glad to recommend it to anyone who wants a good engine at a small cost. In fact, I think them the best made. The picture I am sending shows a 2-horse power engine pulling my shoe machine and doing perfect work. This same engine has pulled a 3-horse load for one to two hours a day for sixty days until I could get the 4-horse power engine that I speak of. These engines have run every day and require no more attention than any other machine. Just oil and keep bolts tight. These engines burn 2½ to 5 gallons of oil per week, running ten hours per day.

Yours respectfully,  
A. M. STARKEY.

Knapp, Wis.

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—We are more than pleased with the gasoline engine we received from you. We were obliged to use an M. V. engine while waiting for yours and find that the engine we got from you will do more than a 6-horse M. V., ours being only 4-horse power. We tried your engine on a wood saw and sawed fifteen cords in one hour.

Yours truly,  
THOS. TEEGARDEN & SON.



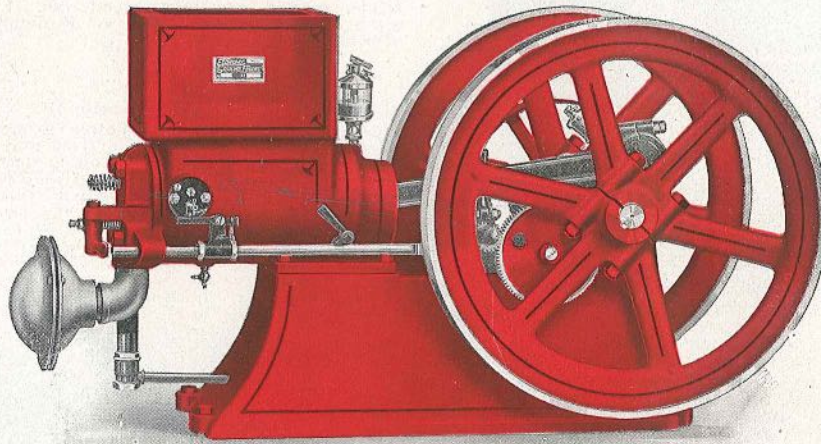


Sixty Days'  
Free Trial.  
Satisfaction  
Guaranteed

## Economy Stationary Gasoline Engine

8-HORSE POWER

There Is No  
Time Limit  
On Our  
Guarantee



No. 11A4513 8-Horse Power Stationary Gasoline Engine. Price . . . . . \$168<sup>95</sup>

THIS ENGINE GUARANTEED EQUAL TO ANY ENGINE SELLING FOR TWICE OUR PRICE.

**TYPE**—Four-cycle, water cooled.

**BORE**—6½ inches. **STROKE**—12 inches.

**SPEED**—350 revolutions per minute.

**FLY WHEEL**—Diameter, 36 inches. Weight, 215 pounds.

**PULLEY**—16 inches in diameter; 10-inch face.

**SHIPPING WEIGHT**—1,700 pounds.

**FLOOR SPACE REQUIRED**—36x62 inches.

**CRANK SHAFT**—Drop forged, 2¼ inches in diameter.

*Shipped from our factory at Sparta, Michigan.*

OUR 8-HORSE POWER ECONOMY GASOLINE ENGINE is a heavy duty engine for running heavy machines, such as large burr mills, feed grinders, saws, elevators, ensilage cutters, threshers, heavy line shaft work in machine shops, etc. They are very powerful engines, well made, thoroughly inspected and tested and we guarantee them to be equal to any 8-horse power engine costing twice our price. They are shipped on sixty days' trial and we will replace at any time parts that are defective. At our price the engine is all ready to run, with gasoline tank in the base, dry batteries, spark coil, wire, pliers, monkey wrench, oil can, 1 quart of oil and one box of grease, also a complete instruction book which explains how to care for and operate the engine.

*For complete description of how our gasoline engines are made, please read pages 10, 12 and 14.*

Don't hesitate to write us for any information about any of our engines or about any farm machinery, line shafting, pumping outfits, etc. If you don't know just what size engine to buy, write us before ordering, giving full particulars, and we will tell you just what you need and quote prices on a complete outfit if you so desire.

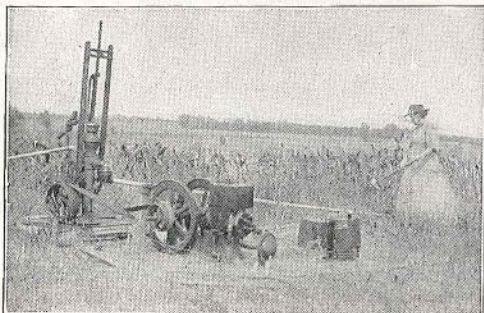
**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**



Easton, Mo.  
 Sears, Roebuck and Co., Chicago, Ill.  
 Gentlemen:—This is to certify that I have bought an Economy farm gasoline engine, 4-horse power, of you and am well pleased with it. It is all you claim for it. I can recommend the Economy to my friends. I know that I saved at least \$35.00 to \$40.00 by buying my engine of you. My engine is quite a labor saver; it runs a wood saw, a feed grinder, corn sheller, washing machine, churn, grindstone and when I butcher it turns the sausage mill. I would not be without it for double the price.  
 Yours respectfully,  
 FRED SWITZER.

R. F. D. No. 1, Box 25, Seward, N. Y.  
 Sears, Roebuck and Co., Chicago, Ill.  
 Dear Sirs:—Have used one of your 4-horse power Economy Gasoline Engines for a year and it hasn't caused me any trouble. It starts on the second turn of the crank, and runs as long as you want to use it. I have a 16-inch pulley wheel on it, and I have had it hooked up to a 14-inch ensilage cutter, and it runs it in fine shape. It is the best all around engine I ever saw. I saved \$116.00 buying from you. Would recommend your engines to anyone in need of power.  
 Yours truly,  
 RAYMOND SOMMERS.

P. S.—Will answer any letter received from anyone regarding your engines.

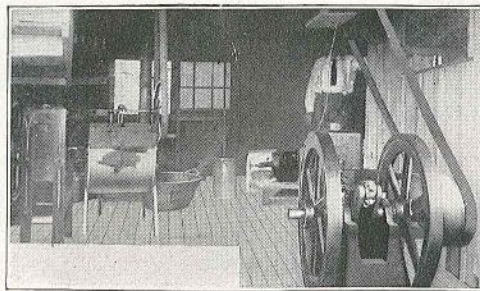
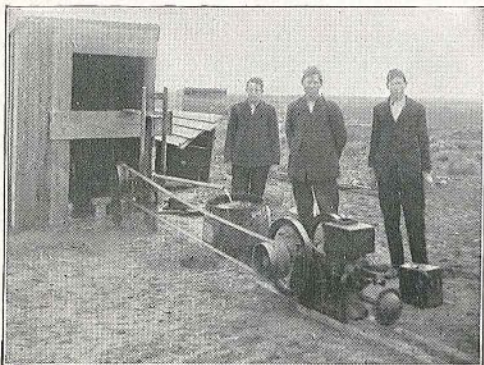


Marengo, Ill.

Sears, Roebuck and Co., Chicago, Ill.  
 Dear Sirs:—The Economy Gasoline Engine I received from you gives perfect satisfaction in every way. Before I ordered the engine I wrote to quite a number of gasoline engine companies for their catalogs to see which was the simplest gasoline engine on the market and after reading their descriptions I came to the conclusion that your engine was the simplest of them all. An engine with many parts is not so long lived and is not so easy to understand as an engine with but few parts. I recommend your Economy Gasoline Engine to anyone, no matter if they have not had experience with gasoline engines before. With your plain instructions anyone can run one of them.  
 Yours truly,  
 LOUIS HAUG.

Balleyville, Kan.

Sears, Roebuck and Co., Chicago, Ill.  
 Dear Sirs:—I am very thankful for that Economy Gasoline Engine that I received from you. I have saved 50 per cent by ordering from you. It is just as good as any gasoline engine that is made. I run a feed mill, pump, cream separator, a two-hole corn sheller and everything that can be done on a farm with an engine. I can save a great deal of time, trouble and work with the Economy Gasoline Engine. It beats all horse powers and windmills that are used on the farm, and I will say that anyone that wants an engine and gets an Economy will get a good one.  
 Yours truly,  
 FRANK MACKE.



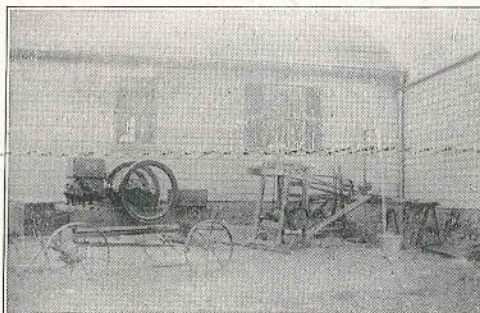
Roseville, Ohio.

Sears, Roebuck and Co., Chicago, Ill.  
 Gentlemen:—The 4-horse power gasoline engine that I purchased from you some time ago surely is a dandy. I have run it nearly every day since I got it; have run it in the coldest weather and have never lost a minute's time in trying to start it. Simply turn on a little gasoline, give it a few turns with the crank and off it goes. I went to Columbus and examined several different makes of gasoline engines, also went to several different county fairs, but I like my engine better than any I saw. I also saved \$75.00 on the engine. I will gladly recommend it to anyone in need of an engine.  
 Wishing you success in your business, I am,  
 Yours truly,

NELSON LONGSHORE,  
 Contracting Builder.

Box 18, Colbert, Okla.

Sears, Roebuck and Co., Chicago, Ill.  
 Gentlemen:—I received my engine O. K. It is a fine little engine. I have run it two weeks and ground corn with it two days, and grind a bushel of table meal in eight minutes, the engine about one-third loaded. The engine is a wonder to everybody, they say it beats anything they ever saw. After I put the engine on the bed, I trued it up, then the line shaft and belt. When I started the engine to work it never gave any trouble at all. I use the best gasoline. I have run some every day for two weeks, and three days all day and bought 3 gallons of gasoline.  
 Yours truly,  
 JOHN W. WEGER.



Bantam, Conn.

Sears, Roebuck and Co., Chicago, Ill.  
 Gentlemen:—The engine works fine. I run it all day steadily with no trouble whatever from it. No engine could work any nicer no matter what the cost. If I hadn't known, from past experience, that the engine would be just what you said it was, I would have been afraid to buy it without seeing it, as the price was so much less than others asked, but I sent on the catalog price and got back \$3.00 with notice that the price had been reduced. There are three different parties who talk of buying an engine in the near future and they all talk favorably of buying one of your engines after seeing mine work. I shall recommend the engine to anyone who inquires, as also the firm of Sears, Roebuck and Co. to deal with.  
 Yours truly,

W. D. THROOP,  
 Prop. Utility Glove Works.

Clifford, Texas.

Sears, Roebuck and Co., Chicago, Ill.  
 Gentlemen:—I like the new engine in every respect. Every man who has seen it at work praises it. It will pump as much water as three common windmills, and my wife can start it and have fresh water at any time. For ordinary use 1 gallon of gasoline will run it for one week. We have attached the corn sheller to it and it certainly does fine work with it.  
 Yours truly,

T. A. GLENN.

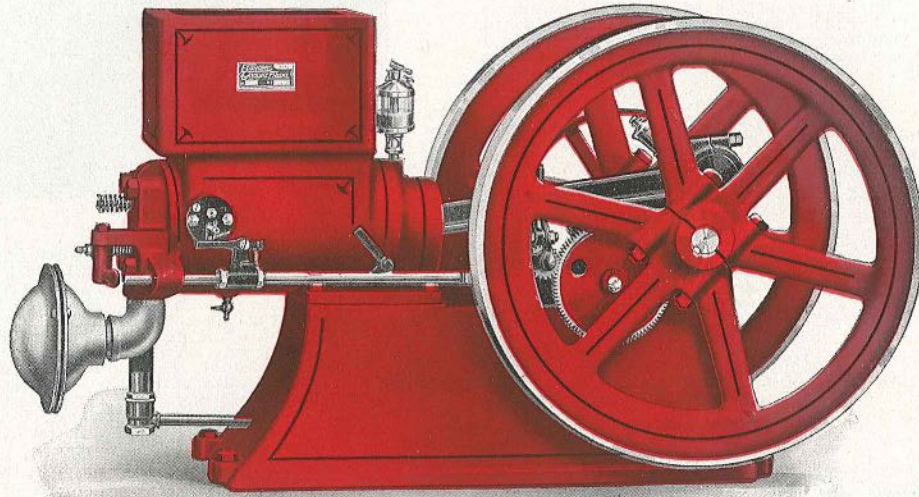


Sixty Days'  
Free Trial.  
Satisfaction  
Guaranteed

## Economy Stationary Gasoline Engine

10-HORSE POWER

There Is No  
Time Limit  
On Our  
Guarantee



No. 11A4514 10-Horse Power Stationary Gasoline Engine. Price - - - - **\$243<sup>45</sup>**  
THIS ENGINE GUARANTEED EQUAL TO ANY ENGINE SELLING FOR TWICE OUR PRICE.

**TYPE**—Four-cycle, water cooled.

**BORE**—7½ inches. **STROKE**—14 inches.

**SPEED**—300 revolutions per minute.

**FLY WHEEL**—Diameter, 42 inches. Weight, 370 pounds.

**PULLEY**—18 inches in diameter; 12-inch face.

**SHIPPING WEIGHT**—2,650 pounds.

**FLOOR SPACE REQUIRED**—37x72 inches.

**CRANK SHAFT**—Drop forged, 2½ inches in diameter.

*Shipped from our factory at Sparta, Michigan.*

OUR 10-HORSE POWER ECONOMY GASOLINE ENGINE is a heavy duty engine for work similar to that of the 8-horse power engine. It will, of course, do heavier work, handle larger machines, line shafting, etc. We guarantee this engine to be equal to any 10-horse power engine on the market, it is shipped on sixty days' trial and we will replace at any time parts that are defective. At our price the engine is all ready to run, with gasoline tank in the base, dry batteries, spark coil, wire, pliers, monkey wrench, oil can, 1 quart of oil and one box of grease, also a complete instruction book which explains how to care for and operate the engine.

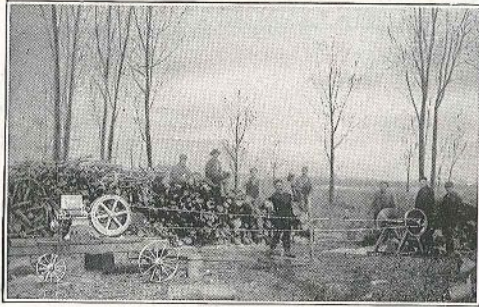
*For complete description of how our gasoline engines are made, please read pages 10, 12 and 14.*

Don't hesitate to write us for any information about any of our engines or about any farm machinery, line shafting, pumping outfits, etc. If you don't know just what size engine to buy, write us before ordering, giving full particulars, and we will tell you just what you need and quote prices on a complete outfit if you so desire.

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

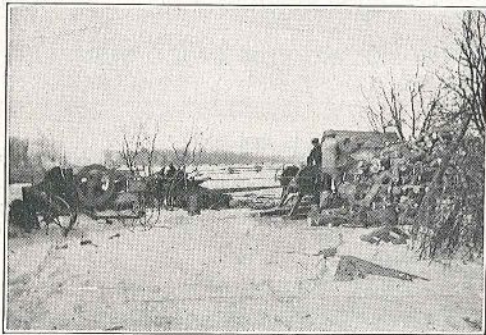
—26—





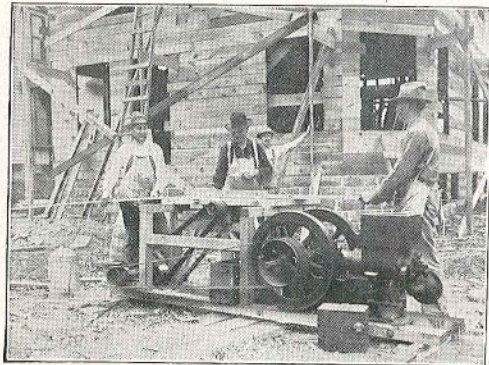
R. F. D. No. 1, Box 88, Willis, Mich.  
Sears, Roebuck and Co., Chicago, Ill.  
Gentlemen:—The 6-horse power Economy Gasoline Engine I bought of you gives me good satisfaction. I run a buzz saw and saw from 25 to 30 cords of wood in a day on 3/4 gallons of gasoline. The Economy Gasoline Engine can be run at a very small cost. I run a 9-inch burr feed grinder and a large feed cutting box. The engine runs all of my machinery and gives plenty of power. It starts very easy in any kind of weather, cold or warm, and the instructions are very simple. I hardly used the instructions to start the engine; the open jacket is the thing, so much better than a large tank. One bucket of water will run all day. I saved from \$50.00 to \$75.00 with it and am perfectly satisfied. We could not purchase a better engine at any price. I would recommend the Economy to any farmer wanting to buy an engine.

Yours truly,  
JOSEPH KWIECINSKI.



Sears, Roebuck and Co., Chicago, Ill.  
Dear Sirs:—The Economy engine is the best that I have ever used. Comparatively speaking, it costs me nothing to run it. I could not do without it. I am running a shingle mill that I used to run by hand. In running by hand I would cut from 8,000 to 12,000 a day; now with my engine I cut from 30,000 to 40,000 a day. I also run a thresher. Before I got my engine the hands cost me \$3.00 a day and board. Now it costs me only about 50 cents a day. It takes 3 gallons of oil, which costs 15 cents a gallon. I used to think that I would not have an engine, as they were so expensive, and I thought they were dangerous. I find, however, that I was mistaken. I would not take twice what mine cost and be without it.

Yours truly,  
JOHN JOHNSON.



Sears, Roebuck and Co., Chicago, Ill.

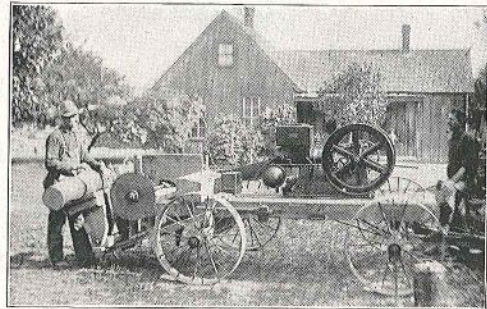
Lyndonville, N. Y.  
Dear Sirs:—I have saved about \$40.00 by ordering from you. One of my neighbors laughed at me when I told him I had bought a 4-horse power gasoline engine to saw wood with, but now he has changed his mind. When I sawed wood for a neighbor of his I sawed seventy-five cords in twelve hours. I got \$10.00 for the job and cleared \$9.25. I have earned the price of the engine and have booked \$40.00 besides. I usually saw by the hour and clear \$6.00 a day. I am also running a 10-inch burr feed grinder, grinding 30 bushels per hour and also run a corn sheller at the same time. I would recommend the Economy Gasoline Engine to anyone thinking of buying one. This may sound big, but I can prove it to anybody. The engine has caused me no trouble at all in starting. The instructions were very plain. The engine is so simple itself that I learned all about it inside of an hour. The engine is doing just as you claim in your catalog.

Yours truly,  
PAUL HEIDEMANN.

Sears, Roebuck and Co., Chicago, Ill.

R. F. D. No. 1, Butte, Neb.  
Dear Sirs:—Some time ago I bought a gasoline engine from you and found it O. K. I run a two-hole corn sheller with it, a small feed grinder, and I also pump water with it. It costs me about 5 cents a week to pump water for about twenty head of stock. I would not be without it for twice the price it cost.

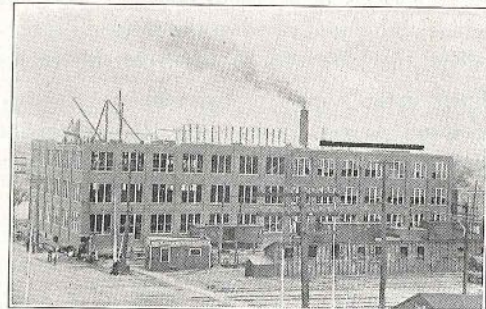
Yours truly,  
AKE NELSON.



Sears, Roebuck and Co., Chicago, Ill.

Route No. 2, Box 19, Bannister, Mich.  
Sir:—About two years ago I purchased a 4-horse power gasoline engine from you, and it is as good today as the day I got it. I pump water, grind feed and buzz wood with it. Haven't seen an engine of the same size I would trade it for. It is certainly O. K., and has more power than any engine of its size I ever saw, and is more easily controlled. I saved \$50.00 by buying from you. I would advise anyone wanting an engine to purchase of you.

Respectfully,  
WILLIAM TERRELL.



Sears, Roebuck and Co., Chicago, Ill.

Rock Falls, Ill.  
Gentlemen:—Referring to the Economy Gasoline Engine of 4-horse power, which I purchased of you about July 12th last, and of which I was somewhat skeptical as to its being what I wanted, because it seemed too cheap to be reliable, costing but half as much as any engine of similar capacity that I know of, and as I stated in a recent letter to you that I would try it thirty days and then report results, am pleased to tell you that after sixty days, during which time I have quite thoroughly tested the engine, I consider it a "dandy" and expect to keep it and wear it out.

After the engine was uncrated and lag screwed to foundation it was running in five minutes' time, and has now been running under load for three days, and in my judgment, for simplicity of construction, easy running and evenness of speed, it is hard to beat. I have been the owner of and have in daily operation, gasoline engines of other makes for the last sixteen years.

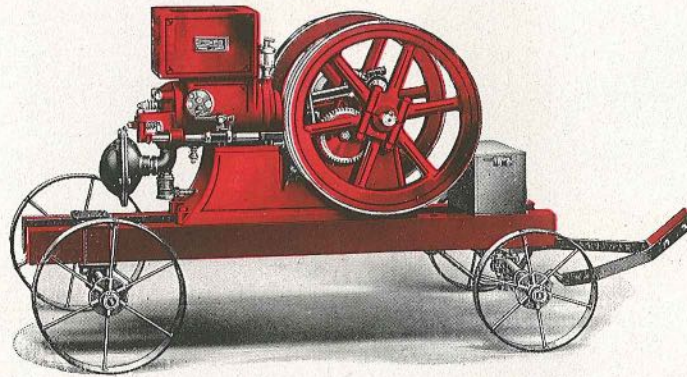
Yours truly,  
L. P. JENSEN.



Sixty Days'  
Free Trial.  
Satisfaction  
Guaranteed

## Economy Hand Portable Gasoline Engines 2 AND 4-HORSE POWER

There Is No  
Time Limit  
On Our  
Guarantee



No. 11A4535 2-Horse Power Economy Hand Portable Gasoline Engine. Price, - **\$52<sup>95</sup>**  
 No. 11A4536 4-Horse Power Economy Hand Portable Gasoline Engine. Price, - **\$85<sup>95</sup>**

THESE ENGINES GUARANTEED EQUAL TO ANY ENGINES SELLING FOR TWICE OUR PRICE.

Horse Power	Bore, inches	Stroke, inches	Speed, R. P. M.	Crank Shaft, inches	Pulley, inches	Fly Wheel, Diameter, inches	Weight, pounds	Shipping Weight, pounds
2	4	6	450	1½	8x4	22	65	650
4	4½	9	400	1¾	12x6	26	135	850

*Shipped from our factory at Sparta, Michigan.*

IT IS A GREAT CONVENIENCE to have an engine that you can pull about from place to place. You can use it in the barn to grind feed, cut fodder or shell corn; you can take it to the house to run the cream separator, washing machine and churn, or when the windmill is not running it will pump water. There are a dozen and one small chores about the farm where a hand portable engine will save you time and money.

These outfits consist of our regular Economy Gasoline Engine, as described in this catalog, and are mounted on solid wood channels, 5 feet long, 2½ inches wide by 3¾ inches thick; metal axles are securely fastened to the channels; the channels are well braced to eliminate vibration; metal wheels 14 inches front, 16 inches rear with 2-inch tires; 30 inches between center of wheels. Each truck is fitted with a substantial hand tongue and we guarantee the outfit to be equal to any portable outfit that you can buy.

If you have only light hand machinery to run, our No. 11A4535 2-Horse Power Portable Outfit is what you want; if you have good size machines or want to run a number of small machines at a time you should buy the 4-Horse Power Outfit. *Be careful in making your selection, however, as it is always a good plan to have plenty of power, as you never know when you will need it. These portable engines may be taken from truck and used for inside work.*

*For complete description of how our gasoline engines are made, please read pages 10, 12 and 14.*

Don't hesitate to write us for any information about any of our engines or about any farm machinery, line shafting, pumping outfits, etc. If you don't know just what size engine to buy, write us before ordering, giving full particulars, and we will tell you just what you need and quote prices on a complete outfit if you so desire.

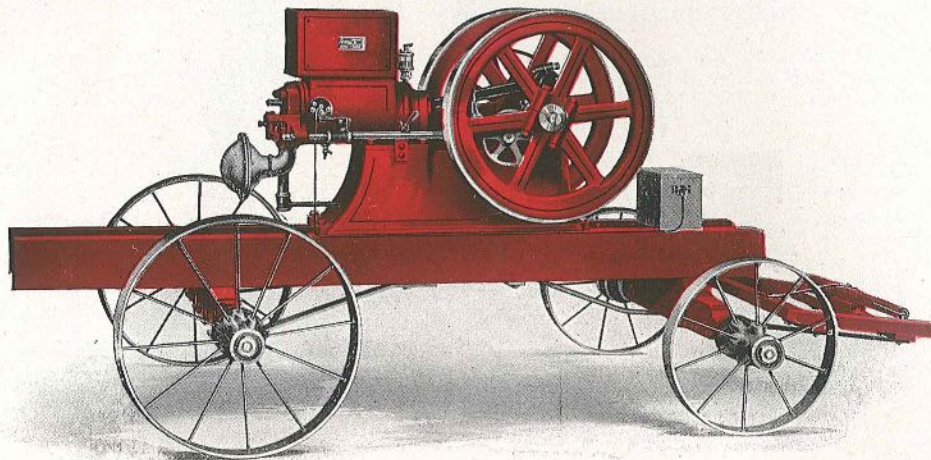
**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**



Sixty Days'  
Free Trial  
On Your  
Farm

## Economy Horse Portable Gasoline Engines 6, 8 AND 10-HORSE POWER

There Is No  
Time Limit  
On Our  
Guarantee



- No. 11A4537** 6-Horse Power Engine on 1-Horse Truck. Price - - - - - **\$134.45**  
**No. 11A4538** 8-Horse Power Engine on 2-Horse Truck. Price - - - - - **202.95**  
**No. 11A4539** 10-Horse Power Engine on 2-Horse Truck. Price - - - - - **279.45**

THESE ENGINES GUARANTEED EQUAL TO ANY ENGINES SELLING FOR TWICE OUR PRICE.

Horse Power	Bore, inches	Stroke, inches	Speed, R. P. M.	Pulley, inches	Crank Shaft, inches	Fly Wheel,		Shipping Weight, pounds
						Diameter, inches	Weight, pounds	
6	5 1/2	10	375	16x8	2	30	185	1,625
8	6 1/2	12	350	16x10	2 1/4	36	215	2,025
10	7 1/2	14	300	18x12	2 1/2	42	370	2,825

IT IS VERY INCONVENIENT to move a 6, 8 or 10-horse power engine from place to place, so we have fitted up horse portable outfits for convenience in transporting these larger horse power engines. They are generally used for sawing wood, running the thresher, ensilage cutter, bean hullers, well drilling outfits, hoists, etc., and can be hauled from farm to farm for grinding, wood sawing, etc.

The outfits consist of gasoline engines as described in this catalog, mounted on solid wood channels with wood axles; steel wheels 24 inches front and 30 inches rear. Axles are of proper size and strength to carry the weight of the engine with the least vibration. The 6-horse power truck has a 3x9-inch skein and 3-inch tire; the 8-horse power truck has a 3 1/4x10-inch skein with 4-inch tire; the 10-horse power truck has a 3 1/2x10-inch skein with 4-inch tire. Width of track is 4 feet 8 inches on all sizes. These trucks are guaranteed and an outfit of this kind will pay for itself in a very short time. When not in use as a portable outfit the engine can be taken from the truck and mounted inside for line shaft work for running such machinery as you desire. For general farm work and running the average machines we recommend our 6-horse power engine.

NOTE—These outfits consist of a high grade engine and the best truck that we can buy, and by shipping direct from our two factories we are able to save freight charges and handling expense. The engine will be shipped from our factory at Sparta, Michigan, and the truck will be shipped from factory in Illinois. The freight will be just the same as though the outfit was shipped together and it saves you the freight on the trucks to our factory in Michigan, and the handling expense that we would have to add to the price of the outfit if we were to ship it all together.

For complete description of how our gasoline engines are made, please read pages 10, 12 and 14.

Don't hesitate to write us for any information about any of our engines or about any farm machinery, line shafting, pumping outfits, etc. If you don't know just what size engine to buy, write us before ordering, giving full particulars, and we will tell you just what you need and quote prices on a complete outfit if you so desire.

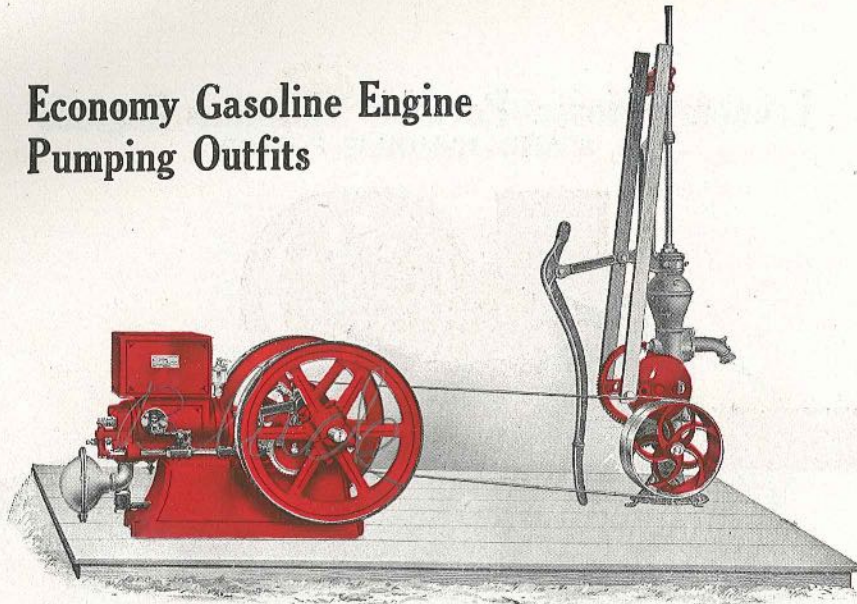
**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**



Sixty Days'  
Free Trial  
On Your  
Farm

## Economy Gasoline Engine Pumping Outfits

There Is No  
Time Limit  
On Our  
Guarantee



- No. 11A4550** 2-Horse Power Pumping Outfit, Engine, Jack and Belt. Price - \$ 46.95  
**No. 11A4551** 4-Horse Power Pumping Outfit, Engine, Jack and Belt. Price - 78.75  
**No. 11A4552** 6-Horse Power Pumping Outfit, Engine, Jack and Belt. Price - 108.45

*For price on belting or pump jack only see pages 34 and 35.*

**THESE ENGINES GUARANTEED EQUAL TO ANY ENGINES SELLING FOR TWICE OUR PRICE.**

Horse Power	Bore, inches	Stroke, inches	Speed, R. P. M.	Pulley, inches	Shipping Weight, pounds
2	4	6	450	4x4	635
4	4½	9	400	6x4	835
6	5½	10	375	8x4	1,135

*Shipped from our factory at Sparta, Michigan.*

A PUMPING OUTFIT on the farm will more than pay for itself in one season in pumping water alone. Our 2-horse power outfit connected to an ordinary windmill force pump will pump about 4,000 gallons of water in ten hours on 2 gallons of gasoline. If you have an Economy you do not have to depend on the wind for your water. It may be used for other purposes; to run the cream separator, feed grinder, grindstone, washing machine, churn or any other machinery operated by hand. Every farmer is losing a great opportunity to save money by not having a pumping outfit. If you want an engine for pumping water and don't know just what size to buy, write us, giving the diameter of your pump cylinder, length of stroke, size of pipe and depth of well; also how much water you want, and we will tell you what engine will do the work. The Economy Pumping Outfits at the prices we ask are complete with engine, as described in this catalog, pump jack, back geared 4 to 1 with three strokes, 5, 7½ and 10. The jack has a tight and loose pulley and the engine is fitted with pulley to match. We also furnish an 11-foot 2-inch rubber belt, so that the outfit when shipped is all ready to pump water.

*For complete description of how our gasoline engines are made, please read pages 10, 12 and 14.*

NOTE—The pulleys furnished on these outfits are of just the right size to run the pump jacks at the proper speed. If you want larger pulleys for other work they should be purchased extra. See prices on page 34.

Don't hesitate to write us for any information about any of our engines or about any farm machinery, line shafting, pumping outfits, etc. If you don't know what size engine to buy, write us before ordering, giving full particulars, and we will tell you just what you need and quote prices on a complete outfit if you so desire.

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

—30—



# Power Pumping Outfits

## FOR IRRIGATING AND GENERAL PUMPING PURPOSES

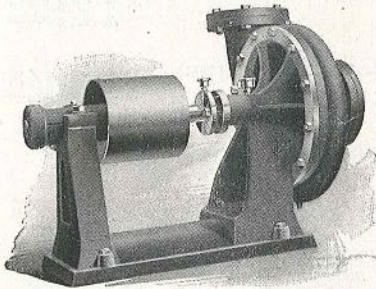
If you want a pump and gasoline engine for pumping water in small or large quantities, from deep or shallow wells, if you want to pump the water into tanks for water supply outfits or irrigating purposes we will be glad to quote you a price on a complete outfit and will guarantee to save you considerable money and give you an outfit that will be equal to any outfit selling for twice the price we ask.

We can furnish you a pumping outfit, including gasoline engine, to pump water from shallow wells, giving you a total capacity of from 13 to 735 gallons a minute, using a rotary or centrifugal pump. For deep wells we can furnish outfits including the ordinary force pump with small capacity, or we can give you deep well pumps furnishing up to as high as 50 gallons a minute.

Give us the following information and we will tell you just what pump and engine you need to give you the best results at the least expense both as to the original cost and future running expense. *Address all letters to Dept. 11, Mechanical Engineers.*

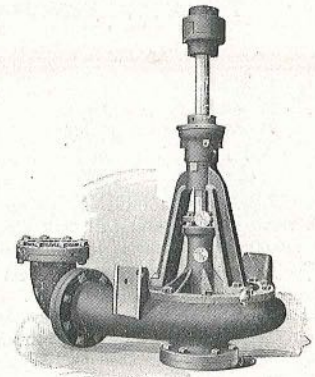
- No. 1. Where do you get your water?
- No. 2. If a dug or bored well, how deep? Give the size of pipe.
- No. 3. How close to water can you set the pump?
- No. 4. How much water do you want per hour?
- No. 5. What do you want to do with the water?
- No. 6. How far do you want to pump the water?

- No. 7. If the pipe is laid give the size.
- No. 8. If to pump into tank, how far and how high up is it?
- No. 9. If you have a pump tell us what kind it is, size of cylinder, size of pipe, how much water it will pump, together with balance of questions, and we will tell you what engine you need.



## CENTRIFUGAL PUMPS

A centrifugal pump is the best and cheapest pump on the market, on account of its low first cost, its compactness, the absence of valves and pistons to get out of order, the uniform pressure and flow of water, simplicity of design, ease of operation and repair and its ability to handle dirty water, etc. A centrifugal pump will handle greater quantities of water easier and with less power and expense than any kind of pump on the market, where the conditions are favorable for its use.

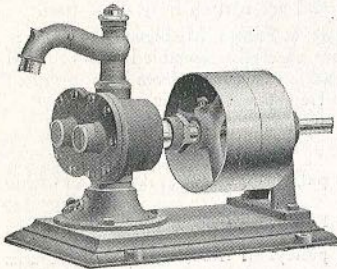


### SPECIFICATIONS CENTRIFUGAL PUMPS

Pump No. Diameter of Discharge Pipe, Inches	Diameter of Suction Pipe, Inches	Reliable Capacity Per Minute, Gallons	Shipping Weight, Pounds
1	1/4	25	45
1 1/2	2	75	125
2	3	125	145
2 1/2	3	185	215
3	4	265	230
4	5	480	380
5	6	750	680

## ACME ROTARY POWER FORCE PUMP

For pumping water from shallow wells and forcing it a considerable distance you want our Acme Rotary Force Pump. This pump is a fine protection in case of fire, as it will force water 200 feet and will throw a solid stream 30 feet. It is an excellent pump for factories, creameries, in fact any building where power can be had, and will give excellent service for irrigating purposes. The spout is threaded for iron pipe at the end and also at the top so that two connections can be made if desired. A pump of this kind must be placed within 20 feet of the water to work successfully and should run from 100 to 150 revolutions a minute. Shipped on trial; fully guaranteed.



### PRICES AND SPECIFICATIONS

Cat. No.	Gallons	Size Suction Pipe, Inches	Size Discharge Pipe, Inches	Size Pulley, Inches	Price
42A5370	13	1 1/4	1	7x2 1/2	\$ 7.98
42A5371	14	1 1/4	1	7x2 1/2	10.95
42A5372	17	1 1/2	1 1/4	7x2 1/2	13.95
42A5373	27	2	1 1/2	11x3	18.35
42A5374	36	2	2	11x3	22.75

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

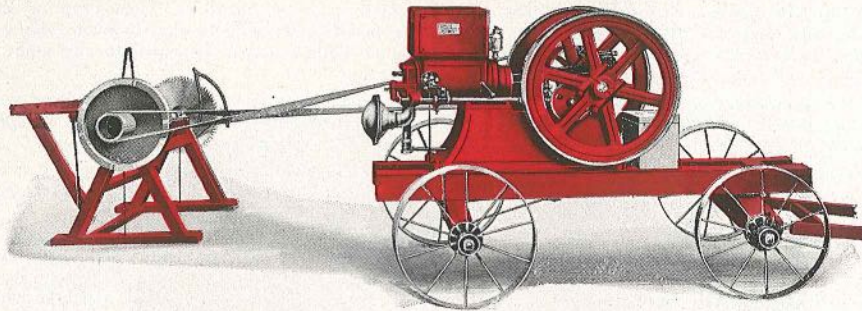


Sixty Days'  
Free Trial  
On Your  
Farm

## Economy Wood Sawing Outfits

4, 6 and 8-HORSE POWER

There Is No  
Time Limit  
On Our  
Guarantee



No. 11A4516 4-Horse Power Engine on 1-Horse Truck, 24-inch saw with frame, 40 feet of 4-inch 4-ply rubber belting. Price - - - - - \$ **129<sup>75</sup>**

No. 11A4517 6-Horse Power Engine on 1-Horse Truck, 28-inch saw with frame, 40 feet of 6-inch 4-ply rubber belting. Price - - - - - \$ **164<sup>45</sup>**

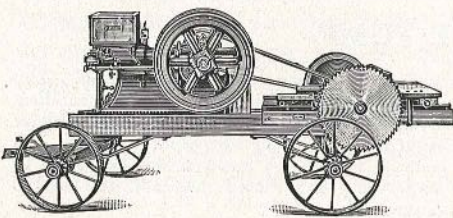
THESE ENGINES GUARANTEED EQUAL TO ANY ENGINES SELLING FOR TWICE OUR PRICE.

Horse Power	Bore, inches	Stroke, inches	Speed, R. P. M.	Pulley, inches	Size of Saw, inches	Shipping Weight, pounds
4	4½	9	400	16x6	24	1,500
6	5½	10	375	16x8	28	2,000

A GASOLINE ENGINE has no equal for wood sawing. It will do more work with less trouble and expense than any other power. A wood sawing outfit will very soon pay for itself in sawing wood alone. You can also use the engine for stationary work and as it is mounted on trucks it can be hauled to your neighbor's to saw his wood, grind feed, etc.

The outfit described above consists of the engine mounted on truck (as described on page 29), with the David Bradley wood saw frame and a 40-foot rubber belt. Trucks are fitted with shafts for one horse or, if you prefer, we can furnish pole. You can haul the complete outfit from place to place for wood sawing, as the saw frame and belt can be loaded on the truck. These outfits are very easily set up and will saw as much wood and give as good results as the higher priced complete outfits shown at the bottom of the page and at a less cost.

For custom sawing and general farm work we recommend our 6-Horse Power Outfit, as this size will handle most any machinery used on the farm and will take care of the light work as well. They are fully guaranteed and are sent on sixty days' trial.



### SAWING OUTFIT COMPLETE ON ONE TRUCK

If you desire a wood sawing outfit complete, all mounted on one truck, we can furnish at the following prices. Trucks will be of the same general dimensions as trucks described on page 29, the saws of the sizes shown in the table below. The outfit is complete with engine and full equipment with belt so that when it reaches you it is all ready to run. They are fully guaranteed and are sent on sixty days' trial.

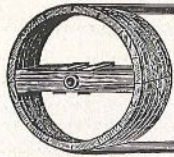
NOTE—The engine is shipped from our factory at Sparta, Michigan; the balance of the outfit from factory in Illinois. All parts are carefully assembled and you will have no trouble in putting the outfit together, and by shipping from two different factories we are able to save you considerable in freight and handling expense.

### PRICES AND SPECIFICATIONS

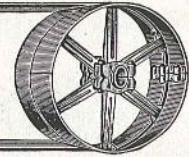
No. 11A4595	4-Horse Power Sawing Outfit with shafts,	24-inch saw, 16x 6-inch pulley.	Price.....	\$ <b>130<sup>75</sup></b>
No. 11A4596	6-Horse Power Sawing Outfit with shafts,	28-inch saw, 16x 8-inch pulley.	Price.....	<b>165<sup>45</sup></b>
No. 11A4597	8-Horse Power Sawing Outfit with pole,	30-inch saw, 16x10-inch pulley.	Price.....	<b>225<sup>65</sup></b>

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**

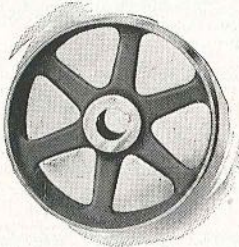




# PULLEYS, SHAFTING, ETC.



## Cast Iron Pulleys for Line Shaft Work



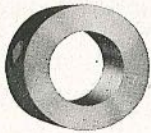
A cast iron pulley is perfectly satisfactory for the ordinary line shaft work. We guarantee these pulleys to give you satisfactory service. They are made of close grained gray iron nicely finished and painted, bored for 1¼-inch shaft, held in place with set screw. Shipped from our gasoline engine factory.

No. 11A4542

### CAST IRON PULLEYS.

Diam., Inches	Face, Inches	Price, Each	Diam., Inches	Face, Inches	Price, Each
4	2	\$0.75	10	4	\$1.45
4	4	.80	12	2	1.55
6	2	.85	12	4	1.65
6	4	.95	14	6	2.00
8	2	1.05	16	6	2.35
8	4	1.20	18	6	2.75
10	2	1.35	20	6	3.15

## Safety Set Collars for Shafting



To put on shafting next to hangers to prevent its working out. Made of cast iron, well finished. Furnished with set screw set in flush with collar. Cannot catch into clothing, etc. Approved by all factory inspection laws. Carried only in size to fit our shafting.

No. 11A4545 For 1¼-inch shaft.  
Price, each.....16c

## Cold Drawn Steel Shafting



Smooth straight steel, uniform in size the entire length. No better shafting made. We do not handle low grade rolled iron shafting which is sometimes offered. We quote below the regular standard size of shafting, the size most commonly used. We can furnish only size and lengths as listed below. Prompt shipment made from our engine factory.

No. 11A4544 Cold Drawn Steel Shafting, 1¼ inches, in 8 and 12-foot lengths only. Weight, per foot, 4¼ pounds.  
Price, per foot.....17c

## Line Shaft Hanger

Double Braced Shaft Hanger made strong where strength is needed, being thickest and heaviest at points of greatest strain. Can be used on floor, ceiling or side wall. Guaranteed to be absolutely satisfactory. Carried in stock at our gasoline engine factory in the one size only, for 1¼-inch shaft.

No. 11A4540 Line Shaft Hanger.  
Price, complete, each.....\$1.00



## We Can Furnish Any Outfit You Want

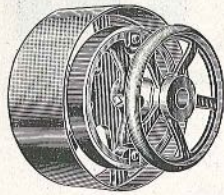
If you don't find what you want on this page in the way of pulleys, shafting or hangers for line shaft outfit, or if you don't know just what you need, write us full particulars, telling us what machinery you have, what engine you expect to buy, or if you have an engine, give us the horse power and the make, and on receipt of this information we will advise you just what you need, giving full description and prices, together with directions as to how to install the outfit.

We will be very glad to give you any information on any power outfit you may be in need of. If there are any questions on the power proposition that you would like to ask, we would like you to feel perfectly free to write our mechanical engineers, who will give you full information absolutely free. You need not feel under any obligations to place an order with us after securing this information, so don't hesitate to write us for anything you want to know on the power question. Address all communications to Department 11, Mechanical Engineers, Sears, Roebuck and Co., Chicago, Illinois.

**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**



## Friction Clutch Pulleys for Gasoline Engines.



A great advantage is gained in using friction clutch pulleys on a gasoline engine:

**First**—Because in starting the engine you do not have to pull the full load when you are cranking.

**Second**—After you have started the engine you do not have to throw the belt on to the pulley. You can throw on the power by simply closing the clutch.

**Third**—You can start your machinery gradually, saving wear and tear on both engine and machinery.

**Fourth**—You can stop the machinery without stopping the engine.

**Fifth**—The prices of our Economy Friction Clutch Pulleys are so reasonable that no purchaser of an Economy Engine can afford to be without one.

### PRICES FOR FRICTION CLUTCH PULLEYS.

Cat. No.	Size, inches	Weight, pounds	Price	Cat. No.	Size, inches	Weight, pounds	Price
1A4519	8x4 1/2	40	\$ 9.00	1A4527	16x6	100	\$14.00
1A4520	10x4 1/2	50	9.50	1A4528	18x6	125	15.00
1A4521	10x6	50	10.00	1A4529	20x6	150	16.50
1A4522	12x4 1/2	50	10.50	1A4530	22x6	175	17.50
1A4523	12x6	50	11.00	1A4531	24x6	200	18.50
1A4524	14x4 1/2	60	11.50	1A4532	26x6	225	20.00
1A4525	14x6	75	12.00	1A4533	28x6	250	22.00
1A4526	16x4 1/2	85	13.00	1A4534	30x6	275	28.00

### Rules for Determining Size and Speed of Pulleys.

To determine the diameter of driving pulley, multiply the diameter of driven pulley by its number of revolutions per minute and divide the product by the number of revolutions per minute of the driver.

To determine the diameter of the driven pulley, multiply the diameter of the driver by its number of revolutions per minute and divide this product by the number of revolutions per minute of the driven.

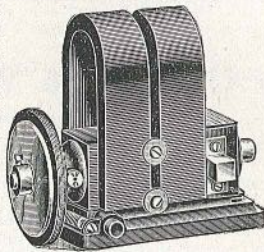
To determine the speed of the driver, multiply the diameter of the driven by its number of revolutions per minute and divide this product by the diameter of the driver.

To determine the speed of the driven pulley, multiply the diameter of the driving pulley by its number of revolutions per minute and divide the product by the diameter of the driven pulley.

## Remy Magneto.

The Remy Magneto is a small electrical generator for use on a gasoline engine to furnish a spark in place of batteries. Batteries are used in starting the engine; after the engine is running at its regular speed you change to the Magneto, which gives a better spark and saves the batteries, so that batteries will last considerably longer than ordinarily.

The Remy Magneto is considered one of the best magnetos on the market. It is fully guaranteed and will give you absolutely satisfactory service. It is equal to any magneto on the market for use in connection with gasoline engines.



### PRICES.

No. 11A4592 Remy Magneto without coil. Weight, about 20 pounds. Price.....\$7.95

No. 11A4593 Remy Magneto with coil. Weight, about 25 pounds. Price.....\$9.20

Shipped from our Gasoline Engine Factory in Southern Michigan.

## Best Cut Rawhide Lacing.

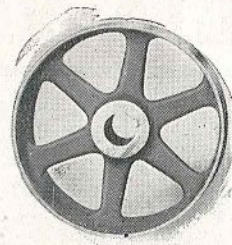


Cut from selected hides by improved machinery, insuring uniformity.

No. 11A4594 Price, 50 ft. 1/4 in. for 2 to 4-in. belts. 40c

No. 11A4595 Price, 50 ft. 1/2 in. for 6 to 8-in. belts. 69c

## Regular Pulleys for Economy Gasoline Engines.



Belt pulleys for transmitting the power from the engine to the machine or the line shaft should be of a certain size on each engine to give the best results. Many purchasers of gasoline engines make a big mistake in ordering a small engine with a large pulley, thinking they will get more power, but by using the wrong size pulleys they overload the engine and don't get the proper results. The pulleys furnished on the Economy Engines are standard and should not be changed unless absolutely necessary. High speed work, such as feed grinding, wood sawing, driving an

emery wheel, etc., requires a large pulley to get the necessary speed. In such cases a large pulley should be used. To find out just what pulley to order see rules on opposite side of this page.

### PRICES FOR CAST IRON PULLEYS.

Cat. No.	Size, inches	Weight, pounds	Price	Cat. No.	Size, inches	Weight, pounds	Price
1A4560	4x 4	9	\$0.80	1A4572	18x 6	40	\$2.75
1A4561	6x 4	10	.95	1A4573	18x12	60	4.00
1A4562	8x 4	13	1.20	1A4574	20x 6	47	3.15
1A4563	10x 4 1/2	17	1.35	1A4575	20x 8	75	3.65
1A4564	12x 4 1/2	19	1.50	1A4576	20x10	95	3.65
1A4565	12x 6	22	1.75	1A4577	22x 6	55	4.25
1A4566	14x 4 1/2	31	1.90	1A4578	22x 8	65	4.25
1A4567	14x 6	36	2.00	1A4579	24x 8	90	4.75
1A4568	16x 4 1/2	40	2.10	1A4580	26x 8	110	5.50
1A4569	16x 6	42	2.35	1A4581	28x 8	125	6.25
1A4570	18x 8	49	2.70	1A4582	30x 8	140	6.75
1A4571	18x10	50	3.00				

## Stand-By Multiple Battery.

This is a set of ten batteries put up in a wooden box and covered with paraffin. They are connected in such a way as to give a much hotter and stronger spark than an ordinary battery and as they are absolutely waterproof they do not require the care of the ordinary battery and will last four or five times as long.



We highly recommend the use of the Stand-By Multiple Battery with our gasoline engines. This battery when used in connection with a Remy Magneto should give you perfect ignition and do away with all troubles from this source.

### PRICES.

No. 11A256 Stand-By Multiple Battery only. Weight, 40 pounds. Price.....\$4.00

No. 11A256A Stand-By Multiple Battery with coil. Weight, 45 pounds. Price.....\$5.50

No. 11A256B Stand-By Multiple Battery in place of regular battery with our engines, add, extra.....\$3.00

Shipped from our factory in Southern Michigan.

## Guaranteed Rubber Belting.

We recommend the use of rubber belting with farm machinery or for small shops. We furnish three sizes that can be shipped from the factory with the engine. These sizes are those most generally used and will be found to answer almost every purpose.

We recommend 2-inch three-ply rubber belting for 2-horse power engines; four-ply 4-inch rubber belting for 4-horse power engines and the 6-inch four-ply rubber belting is plenty large enough for our 6, 8 and 10-horse power engines. It will stand any load.

### PRICES.

No. 11A4549 2-Inch Three-Ply Rubber Belting. Price, per foot.....9c

No. 11A4590 4-Inch Four-Ply Rubber Belting. Price, per foot.....27c

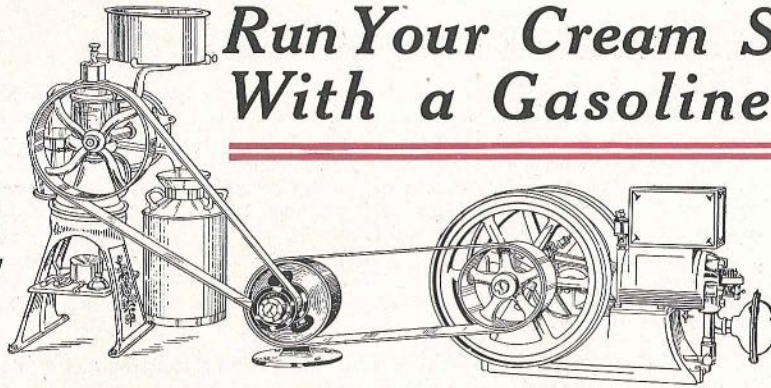
No. 11A4591 6-Inch Four-Ply Rubber Belting. Price, per foot.....38c

NOTE—When ordering belting be sure to give the correct length, as belting sent as ordered cannot be taken back or exchanged.

SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS



**60 DAYS'  
TRIAL  
Satisfaction  
Guaranteed**



# Run Your Cream Separator With a Gasoline Engine

**No. 11A4599 2-Horse Power Engine, governor pulley and two belts, complete, ready to run separator. Price - - - - - \$52.25**

JUST WHAT YOU HAVE BEEN LOOKING FOR—a governor pulley that connects direct with the gasoline engine and cream separator, changing the speed of the engine to the proper speed for the separator. You can bolt this pulley to the floor, ceiling or wall, run a belt from the engine to the large side of the pulley and from the small side to the separator as shown in the illustration above. The pulley takes care of the difference in speed so that your separator runs at the required speed.

You cannot run a cream separator direct from a gasoline engine, as the engine runs too fast. It has been a problem for several years as to how to run the cream separator with an engine without expensive line shafting, pulleys, etc. The governor pulley solves this problem. It is positive in its results, simple in operation, and there are no parts to get out of order. It costs little or nothing in comparison with the results, and it protects your separator and runs it at a constant speed. Full instructions are sent with each pulley.

Try one of these pulleys on your separator for ten days. If it is not perfectly satisfactory you can send it back and we will return your money, together with any transportation charges you have paid.

## ECONOMY GOVERNOR PULLEY.

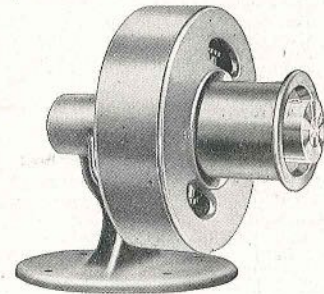
**No. 11A4518 Economy Governor Pulley.** Weight, about 30 pounds. Shipped from our factory at Sparta, Mich. Price - - - - - **\$8.00**

## CREAM SEPARATOR PULLEYS.

**No. 11A4583 12-Inch Cast Iron Pulley.** Price - - - **\$1.25**

**No. 11A4584 14-Inch Special Friction Clutch Pulley - 2.25**

**NOTE**—We recommend the friction clutch pulley, as it gives better results, although the governor pulley will run the separator just as satisfactorily with either.

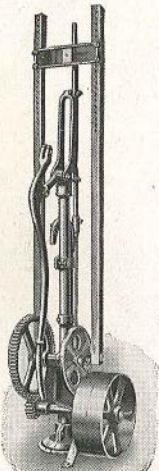


## ECONOMY BACK GEARED PUMP JACK.

The Economy Back Geared Pump Jack may be used on any ordinary windmill, hand or force pump. It is back geared 4 to 1 and has three strokes: 5-inch, 7½-inch and 10-inch. It is furnished with tight and loose pulleys 13 inches in diameter for 2-inch belt, and should not be driven over 200 turns per minute. We recommend 160 turns, running pump about thirty-nine strokes per minute. A 2-inch belt is sufficient for raising water with a 3-inch cylinder on the 5-inch stroke 200 feet, on the 7½-inch stroke 150 feet and on the 10-inch stroke 100 feet. With a 2-inch cylinder this jack will handle a well 300 feet deep.

**We guarantee these pump jacks to be as good as any pump jacks made for light work.**

**No. 11A4553 Economy Back Geared Pump Jack.** Shipped from our factory at Sparta, Mich. Weight, 80 pounds. Price - - - - - **\$5.25**



**SEARS, ROEBUCK AND CO., CHICAGO, ILLINOIS**



# About Freight Charges

The Economy Gasoline Engines are shipped direct from our factory at Sparta, Michigan, from which point you pay the freight; but even though you pay the freight charges, the amount is very small in comparison with the great saving you make in buying from us. We ship the engines direct from our factory, so there is but one handling expense, and no dealer, manufacturer or agent can save you freight charges. We guarantee to make you a big saving, even after you have paid the freight charges. To find out just what the freight will be on an engine to your town, look up the state in which you live in the following list, get the rate for 100 pounds to the town nearest you, and multiply it by the weight of the engine or outfit you want to buy. You can then add the amount to the cost of the engine and make comparison with prices charged in your own town.

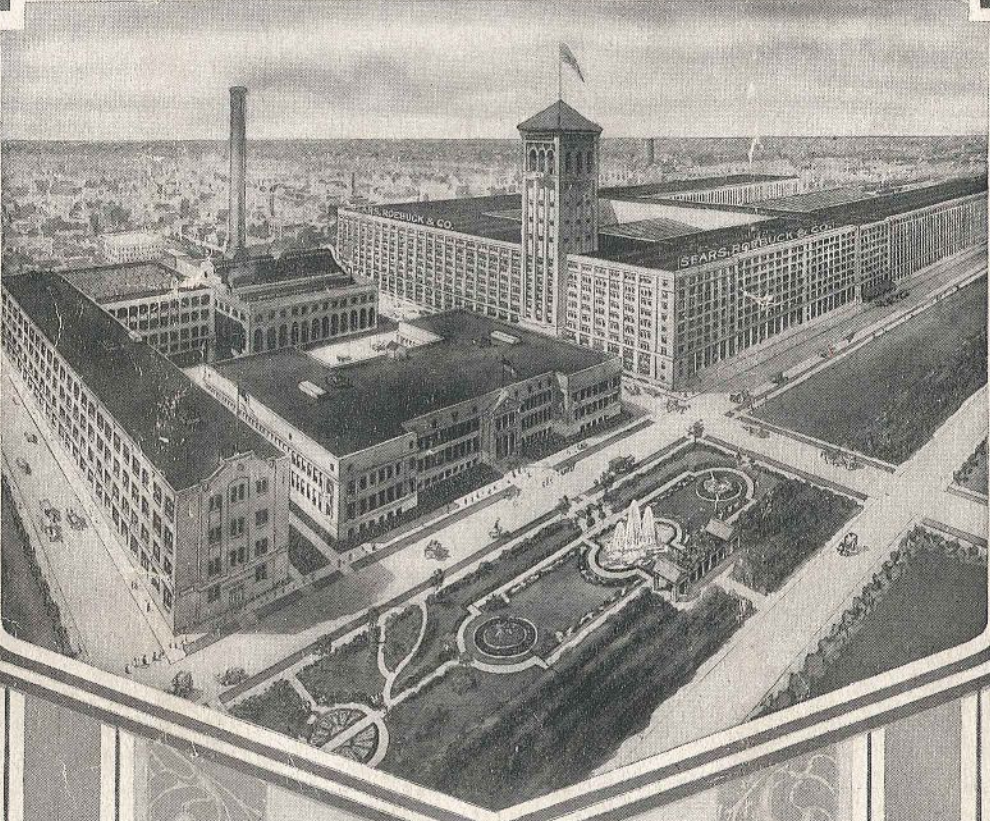
Every engine is carefully crated to insure its reaching you in perfect condition and to secure the lowest possible freight rate. We guarantee safe delivery, and if the engine should be damaged by the railroad company, we will replace any damaged part or, if necessary, ship you a new engine without any additional expense to you, providing you send us the receipt you get for the freight charges with a notation on it by the agent as to just what the damage was.

## Freight Rate for Each 100 Pounds on Gasoline Engines Shipped From Our Factory at Sparta, Michigan, to Different Points Throughout the United States.

<b>ALABAMA—</b>		<b>KENTUCKY—</b>		<b>NORTH DAKOTA—</b>	
Birmingham .....	\$1.16	Frankfort .....	\$0.63	Bismarck .....	\$1.04
Brewton .....	1.16	Hopkinsville .....	.82	Fargo .....	1.20
Mobile .....	.79	Louisville .....	.38	Grand Forks .....	1.27
Montgomery .....	1.25	Morehead .....	.62	Minot .....	1.76
				Williston .....	2.05
<b>ARIZONA—</b>		<b>LOUISIANA—</b>		<b>OHIO—</b>	
Phoenix .....	3.05	Lake Charles .....	1.80	Cincinnati .....	.37
Tucson .....	3.05	New Orleans .....	.79	Columbus .....	.35
		Shreveport .....	1.65	Toledo .....	.29
<b>ARKANSAS—</b>		<b>MAINE—</b>		<b>OKLAHOMA—</b>	
Arkansas City .....	.79	Bangor .....	.60	Oklahoma City .....	1.70
Fort Smith .....	1.50			<b>OREGON—</b>	
Hot Springs .....	1.75	<b>MARYLAND—</b>		Portland .....	3.00
Little Rock .....	1.20	Baltimore .....	.60		
Texarkana .....	1.67	<b>MASSACHUSETTS—</b>		<b>PENNSYLVANIA—</b>	
		Boston .....	.69	Harrisburg .....	.60
<b>CALIFORNIA—</b>		<b>MICHIGAN—</b>		Philadelphia .....	.61
Bakersfield .....	3.50	Bessemer .....	.66	Pittsburg .....	.39
Los Angeles .....	3.00	Detroit .....	.29		
San Francisco .....	3.00	Grand Rapids .....	.19	<b>RHODE ISLAND—</b>	
		Traverse City .....	.25	Providence .....	.69
<b>COLORADO—</b>		<b>MINNESOTA—</b>		<b>SOUTH CAROLINA—</b>	
Denver .....	2.02	Aitkin .....	1.08	Charleston .....	1.12
Durango .....	3.42	Crookston .....	1.25	Greenville .....	1.23
Grand Junction .....	3.42	Duluth .....	.66	Sumter .....	1.21
Julesburg .....	1.95	Grand Rapids .....	.99		
Leadville .....	3.02	Minneapolis .....	.66	<b>SOUTH DAKOTA—</b>	
		Winona .....	.65	Aberdeen .....	1.43
<b>CONNECTICUT—</b>		<b>MISSISSIPPI—</b>		Bellefourche .....	2.15
Hartford .....	.69	Hattiesburg .....	1.20	Sioux Falls .....	1.03
<b>DELAWARE—</b>		Jackson .....	1.05	Watertown .....	1.15
Dover .....	.63	Natchez .....	.79		
<b>DISTRICT OF COLUMBIA—</b>		<b>MISSOURI—</b>		<b>TENNESSEE—</b>	
Washington .....	.60	Kansas City .....	1.00	Jackson .....	.87
		St. Louis .....	.40	Knoxville .....	.94
<b>FLORIDA—</b>		Springfield .....	1.02	Memphis .....	.59
Jacksonville .....	1.12			Nashville .....	.65
Miami .....	1.92	<b>MONTANA—</b>		<b>TEXAS—</b>	
Pensacola .....	.79	Helena .....	2.91	El Paso .....	1.99
Tallahassee .....	1.50	Kalispell .....	3.02	Fort Worth .....	1.87
		<b>NEBRASKA—</b>		Houston .....	1.87
<b>GEORGIA—</b>		Lincoln .....	1.05	<b>UTAH—</b>	
Atlanta .....	1.15	North Platte .....	1.78	Marysville .....	3.55
Macon .....	1.18	Omaha .....	1.00	Salt Lake City .....	3.05
Savannah .....	1.16			<b>VERMONT—</b>	
Waycross .....	1.44	<b>NEVADA—</b>		Montpelier .....	.69
<b>IDAHO—</b>		Austin .....	3.94	<b>VIRGINIA—</b>	
Boise .....	3.27	Carson City .....	3.29	Marion .....	.70
Pocatello .....	3.15	<b>NEW HAMPSHIRE—</b>		Richmond .....	.60
		Concord .....	.69	Rocky Mount .....	.82
<b>ILLINOIS—</b>		<b>NEW JERSEY—</b>		<b>WASHINGTON—</b>	
Cairo .....	.45	Atlantic City .....	.68	Seattle .....	3.00
Joliet .....	.27	Trenton .....	.63	Spokane .....	3.16
Rock Island .....	.50	<b>NEW MEXICO—</b>		<b>WEST VIRGINIA—</b>	
Springfield .....	.40	Gallup .....	3.05	Charleston .....	.44
		Santa Fe .....	2.52	Elkins .....	.70
<b>INDIANA—</b>		Silver City .....	2.60	Wheeling .....	.39
Evansville .....	.39	<b>NEW YORK—</b>		<b>WISCONSIN—</b>	
Fort Wayne .....	.30	Albany .....	.60	Ashland .....	.66
Indianapolis .....	.34	Buffalo .....	.39	La Crosse .....	.65
Richmond .....	.34	New York .....	.63	Madison .....	.65
South Bend .....	.27	Syracuse .....	.50	Marinette .....	.66
		<b>NORTH CAROLINA—</b>		Milwaukee .....	.32
<b>IOWA—</b>		Raleigh .....	1.01	<b>WYOMING—</b>	
Des Moines .....	.77	Wilmington .....	.90	Cheyenne .....	2.02
Fort Dodge .....	.89			Green River .....	3.05
Sioux City .....	1.00			Lander .....	3.16
				Sheridan .....	2.72
<b>KANSAS—</b>					
Dodge City .....	1.87				
Great Bend .....	1.72				
Kansas City .....	1.00				
Topeka .....	1.29				
Wichita .....	1.59				



Decorative header with Art Deco motifs and a large stylized 'S' logo.



**SEARS ROEBUCK & Co.**  
**CHICAGO**

Decorative footer with Art Deco motifs.