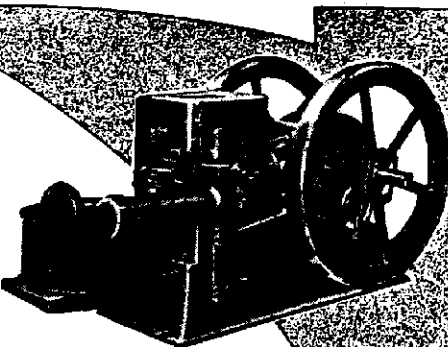




# Why I Can Make Lower Engine Prices



## Buy From An Engine Specialist

With my own hands, 27 years ago, I made my own first engine, and gave it my own name. Ever since, I have personally supervised my own factory. I know every WITTE engine, inside and out, that leaves my factory.

I am the only man in the United States who makes his own engines, in his own debt-free factory, from his own designs, using his own special machinery and selling his entire output under his own name—direct from factory to user only.

I have built the WITTE engine of fewer parts and so have made it longer lasting; more easily understood, and more easily managed; and last but not least, it takes less fuel per horsepower hour, on account of its fewer and simpler moving parts.

ED. H. WITTE

### WITTE Gasoline and Naphtha Engine—Stationary

Shown mounted on iron sub-base, which makes a permanent foundation where it is impractical to use masonry construction.

My latest prices are for the best engines I ever made. And for over 27 years, WITTE engines, in all parts of the world, at all kinds of work, have proven themselves of the highest quality.

Recently I have expended many thousands of dollars in enlarging my factory to more than double its former capacity, and for specially designed machinery of the latest types to reduce my cost of production while still maintaining the high standard WITTE quality. Then, too, I have my own natural gas well which furnishes me free power, light and heat. I share these advantages with every customer by making the **lowest** prices possible for strictly high-standard engines.

## WITTE ENGINES

### Kerosene, Distillate, Gasoline & Gas

Sold only Direct from my Factory Doors to the User's Hands!

No matter what kind of work nor how much of it there is to be done there is a WITTE Engine, **stationary, portable, skidded, or special saw rig**, of just the size and style that is best suited for that particular work.

Whatever size or style you select, it is guaranteed to stand up under years of hard wear and deliver steady power for the lowest fuel cost. So simple in construction that you can easily understand, start and run it, whether you are experienced with an engine or not.

## Get My Complete New Offer and Copy of My New Book FREE

You should have a copy of my new Book — **HOW TO JUDGE ENGINES**. Explains how to start and keep an engine running—how little it costs, and how easy it is, under

my liberal easy terms and sales plan, for any WITTE engine to earn its own cost while it is being paid for. Mail coupon today and I will send you the whole WITTE story by return mail.

ED. H. WITTE  
WITTE IRON WORKS CO.  
1746 Oakland Avenue  
Kansas City, Mo.

WITTE Kerosene Engine—Stationary  
Burns Kerosene, Distillate,  
Solar Oil, Toppings and all  
fuels of like grades. Also  
Gasoline, Naphtha and Gas.

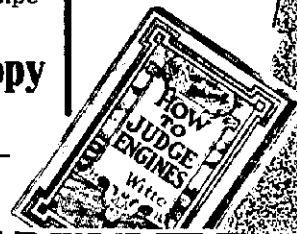
## Latest WITTE Engine Prices:

(On account of war conditions, subject to change without notice.)

2 H-P \$34.95  
4 H-P 69.75  
6 H-P 97.75  
8 H-P 139.65  
12 H-P 219.90  
16 H-P 298.80  
22 H-P 399.65

Portable and Saw-rig Outfits proportionally low

WITTE prices make you a good profit right on the first cost and give you the satisfaction and protection of dealing direct with the maker. I give a liberal **5-Year Guaranty** on the efficiency and durability of every engine I ship.



### MAIL THIS COUPON TODAY

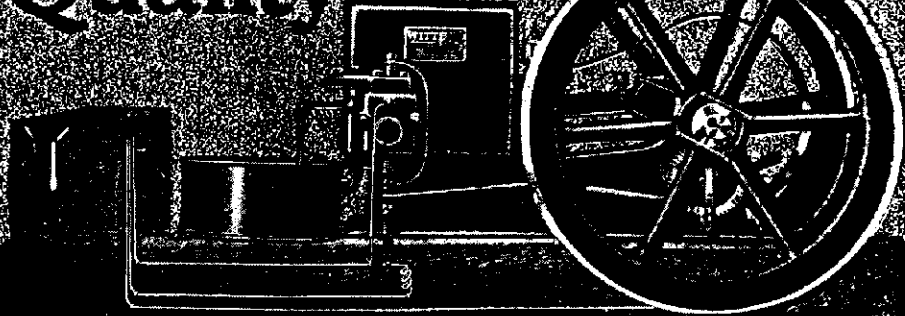
ED. H. WITTE, Witte Iron Works Co.  
1746 Oakland Ave., Kansas City, Mo.

With no obligation on my part I should like to receive your latest and finest Engine Book, with your new liberal Selling Plan.

Name .....

Address .....

# Lower Power Cost Proves My Higher Engine Quality



Latest  
**WITTE Prices**  
F. O. B. Factory

STATIONARY	
2 H-P.	\$ 34.95
4 H-P.	69.75
6 H-P.	97.75
8 H-P.	139.65
12 H-P.	197.00
16 H-P.	279.70
22 H-P.	359.80
PORTABLE	
2 H-P.	\$ 29.95
4 H-P.	52.75
6 H-P.	127.75
8 H-P.	174.65
12 H-P.	237.00
16 H-P.	329.70
22 H-P.	412.30
SAW-RIG	
6 H-P.	\$152.25
8 H-P.	202.15
12 H-P.	267.00

A WITTE Engine of any size is guaranteed to give its full rated horse-power with a liberal surplus. So, probably, will any other strictly high-grade engine. But the mere ability to deliver its rated horse-power is not all that is needed to prove engine quality. The big question to consider is this: "How much will it cost in fuel, lubricant, and upkeep expense to get that rated horse-power out of an engine?" Real engine quality is measured by the engine's ability to keep that cost down to the lowest possible notch. And, other things being equal—strength, durability, simplicity, ease of operation, smoothness of running—the engine which keeps its operating cost down to the lowest notch is the engine for you to buy.

## WITTE ENGINES

### Gasoline, Kerosene, Distillate and Gas

Thirty years ago when gasoline and other like fuels were cheap almost any type of engine that could pull its rated load, regardless of amount of fuel used, would answer the user's purpose. Those early engines were mostly over-heavy and a large part of their own power was consumed in overcoming excessive friction of their over-heavy parts. Today fuel is a matter of first importance. I foresaw this years ago and began working toward a cheaper power cost. The result is the WITTE Engine of today which, measured by the cost of power put into the drive belt—its actual dollar-earning value—has set a new standard for engine efficiency. A saving of 25% of the fuel used by older type engines amounts, in a year, in many cases to more than enough to pay the entire first cost of a WITTE Engine.

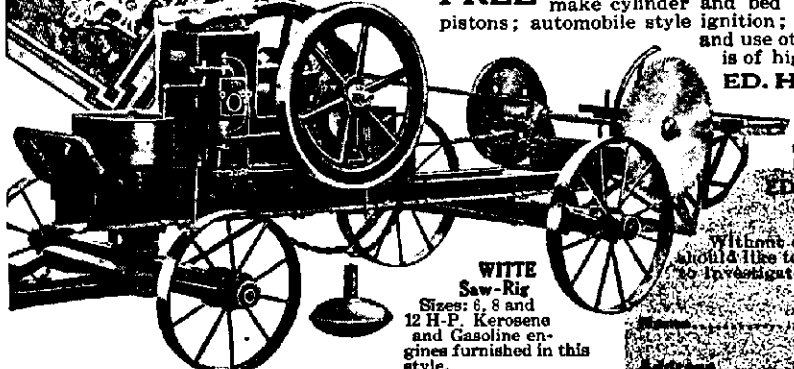
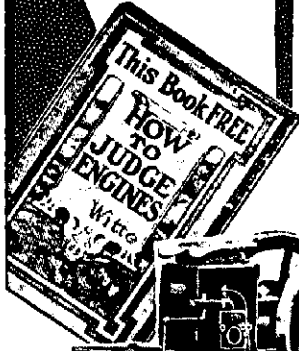
### Sent Direct From My Factory To User CASH OR EASY TERMS

Five Year Guarantee On Efficiency And Durability

For 28 years the WITTE has maintained its lead in Engine Quality. Compare my prices with others and see how much you save on the first cost—to say nothing of the steady saving on fuel and upkeep.

**FREE ENGINE BOOK.** Tells why I use semi-steel castings; why I make cylinder and bed separable; vertical valves; four-ring pistons; automobile style ignition; safety spark shift for easy starting; and use other features without which no engine is of high grade quality. Mail coupon today.

**ED. H. WITTE, Witte Engine Works**  
1745 Oakland Ave., Kansas City, Mo.  
1745 Empire Bldg., Pittsburgh, Pa.



**WITTE Saw-Rig**  
Sizes: 6, 8 and 12 H-P. Kerosene and Gasoline engines furnished in this style.

ED. H. WITTE, Witte Engine Works  
1745 Oakland Ave., Kansas City, Mo.  
1745 Empire Bldg., Pittsburgh, Pa.

Without cost to me, and with no obligation on my part, I should like to receive your latest and finest Engine Book, and to investigate your New Liberal Selling Plan.

Name \_\_\_\_\_  
Address \_\_\_\_\_

## Look At It Another Way

See the work that 50 cents worth of fuel will do, according to size engine used, as taken from reports sent in by our customers. These reports are averages only, and not individual reports which are much higher in many instances. There is no reason why you cannot get much better results than indicated below.

- Will cut 12 tons of silage, elevating it 30 feet.
- Will cut 200 to 250 feet poplar lumber.
- Will cut 150 to 200 feet oak lumber.
- Will cut 10 to 12 cords wood.
- Will run log saw all day, cutting logs or trees.
- Will grind 40 to 50 bushels shelled corn.
- Will grind 20 to 25 bushels oats.
- Will grind 20 to 25 bushels ear corn.
- Will grind 20 to 30 bushels wheat.
- Will pump water for 80 to 100 head of steers.
- Will pump water for 400 to 500 hogs.
- Will pump water for 500 to 700 sheep.
- Will shell 300 to 350 bushels corn.
- Will cut 25 to 30 tons silage.
- Will cut 20 to 25 tons hay fodder.
- Will thresh 80 to 90 bushels wheat.
- Will husk 90 to 100 bushels corn.
- Will thresh 100 to 150 bushels oats.
- Will grind 40 to 45 bushels mixed corn and oats.
- Will run 60 saw gin stand for one hour.
- Will furnish lights for 8 rooms for 10 evenings.
- Will grind from 125 to 180 pounds green bone.
- Will run rip saw, band saw and jointer all 8 to 10 hours.
- Will run emery wheel, drill and forge for 8 to 10 hours.
- Will pump 30,000 gallons water with centrifugal pump.
- Will pick 20 to 30 bags of peas.
- Will pump water from 150-foot well all day.
- Will run a medium cutter half a day.
- Will run a medium size saw nine hours.
- Will handle a 500-foot well machine 4 to 5 hours.
- Will pull average broom corn thresher 4 hours.
- Will run a bottling plant half a day.
- Will bale 100 to 150 bales of hay.
- Will furnish water for an 8-room house 10 days.
- Will grind 1,000 to 1,200 pounds alfalfa meal.
- Will save your horses 2/3 of the work on a binder for a day.
- Will grind 1,200 to 2,000 pounds kaffir corn in head per day.
- Will mix 20 to 30 yards of concrete.
- Will elevate 2,000 to 3,000 bushels of corn.
- Will run sprayer and handle 2 or 3 leads of hose 6 hours.
- Will handle a 600-pound gross weight hoist 6 hours.
- Will cut from 1,000 to 2,000 shingles.

**Our long experience in building engines exclusively is a guarantee in itself that we can supply you with just what you want, or need, to reduce your labor costs and make you money. If you don't know the size engine you need, ask us and tell us what you wish to use it for, we will be glad to co-operate with you.**

# How You Can Make Money With a WITTE



IN the thousands of letters received from our customers, we find that they are using WITTE Engines for operating all classes of labor-saving machinery.

WITTE Engines are pumping water for stock, irrigating crops and furnishing water for town and country water systems. Others are sawing cord wood, pole wood and stove wood, threshing grain, baling hay, cutting ensilage and filling silos.

WITTE Engines are operating feed cutters, cane mills, peanut pickers, cider presses, sprayers, fruit-sorting machines, honey extractors, bone cutters and feed mills—grinding grain into meal, chop and feed. Around the house WITTE Engines are operating electric light plants, washing machines, cream separators, churns, milking machines, bottle washers, grindstone, plow and disc sharpeners.

Flour mills, grain elevators, grist mills, corn crushers, factories and shops are using WITTE Engines for operating their machinery. Bakers use WITTE Engines for dough mixers, rollers,

and ventilating fans. Planing mills, box makers, laundries, rug cleaners, well drillers, concrete workers, shingle makers, saw mill men, cotton and broom corn raisers use WITTE power.

In the mining field WITTE Engines are used for hoisting, sorting and crushing ore, operating air compressors, mine fans and water pumps. In every place where practical, easy to use power is required, a WITTE Engine will do the job at a big saving over hand labor or steam power.

Hand labor costs 30 to 50 cents an hour. At an average of 15 cents a gallon, kerosene costs about 2 cents *per horse-power* for each hour, or about a dollar a day for a 5-horse engine. Good men get \$4 a day, and three meals, worth \$2. The engine gets a squirt or two of lubricating oil—costs you nothing while idle—does the work of six men. The difference between what six \$4 men can do and what a 5 H-P. engine will do is your profit. Even a little 2-horse engine will do more work than three men.

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# What We Can Do For You

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WE can do for you just what we have done for our hundreds of thousands of customers for years—sell you a better engine for the price and save you money. You can order one engine or a carload. You can get what you want, when you want it, by simply writing a letter, and sending us your order.

We sell direct to every user, dealer or manufacturer, who knows and wants WITTE Improvements and WITTE Quality.

We not only use every means to produce a quality product at its lowest manufacturing costs, but we are constantly striving to reduce the cost of selling, thus bringing the factory closer and closer to the final buyer.

Therefore, when you buy your engine from the great WITTE factory, you get it at the lowest factory price. You get a well-made engine, particularly designed for easy operation and durable service, fully tested and fully guaranteed.

## You Get An Engine That Will Last—Surplus Power Guaranteed

The value of any engine is what it will do in your hands. When you select an engine, you should know how it is made, what it is made of—then judge whether it will stand up under years of usage. That our special semi-steel construction is extremely durable, is proven by those who are still operating WITTE Engines after 15, 25 and 30 years of service. Our Lifetime Guarantee is based on proven performance and known quality.

### Better Materials

I make thousands of engines where others make a few, consequently my prices on good engines are always low. I use the best materials obtainable. Material prices may vary a few dollars per engine according to what manufacturers select. But construction costs cannot be cut except by installing up-to-date and fast running machinery, for finishing the engine parts. I build in quantity. My factory is equipped with every machine or device that will cut the cost of manufacture. You get the benefit of this quantity production when you buy a WITTE, and I can, therefore, use better materials without adding a penny to the cost. Built in the ordinary way, I would either have to obtain higher prices or use cheaper materials.

### Foundry Tests Prove Witte Quality

Every day we take sample borings from castings coming through and subject them to metallurgical tests to prove that the strength, hardness, breaking point and other desirable qualities are present. In this way uniform castings of known durability are assured.

Every WITTE Engine is built to carry from 25 to 30 per cent variation in load, or about one-third more than actual horse-power rating. This extra horse-power is not added to induce buyers to purchase smaller engines than requirements call for, but to allow sufficient power for easy operation—with a liberal surplus in case of overload. It would make no difference whether your machinery requires a 2 H. P., 10 H. P., or 25 H. P. Engine, the WITTE will run it.

### Every Witte Engine Fully Tested Before Shipment

We test every engine on our floors before painting, and again just before shipping. These two accurate tests by expert engine men insures a perfect running engine or outfit, free from defects of material or workmanship. Every engine is ready to operate on arrival when supplied with lubricating oil, water and fuel.

### Cash or Terms

We are in a position to sell you for cash or on easy payments, as you wish. Any creditable man anywhere in the United States can have a WITTE Engine on these favorable terms. We make it easy to buy a WITTE direct. We guarantee safe delivery. You get the same quality engine whether you pay all cash or buy on the payment plan. I have only one grade of engines—the best I know how to make. If you pay more than I ask, you pay for something that does not exist.

# High Tension Ignition

## Battery or Magneto



It is just as important for you to have perfect ignition on your engine as on your auto or tractor. The fact that jump spark is the best is why we use it on the WITTE. All automobile and marine engines, tractor engines, air ship and aeroplane engines are equipped with jump spark. The reason they all use jump spark ignition is because of its certainty, its higher voltage, and because jump spark does not create wear between the points. The points on a spark plug are stationary, while the moving parts and points of the make-and-break cause wear, are liable to corrode and become carbon-coated from the heat and explosion of gases, and miss firing. No man would think of going up in an airship with an engine equipped with make-and-break ignition. In no case where life depends upon the steady operation of an internal combustion engine is anything used but jump spark. It is the system of ignition taught in colleges, mechanical schools, and every place where engine instruction is given. Its simplicity is best proven by the fact that no part is movable, while on make-and-break spark system there are from 12 to 18 parts and *all* are movable and subject to great wear.

We equip every WITTE Engine with high tension jump spark, because it is the most certain. It costs little more but is worth much more.

It is the universal ignition—the only kind that can be renewed, replaced or repaired any place in the universe. You don't send to the factory for repairs when you need them—spark plugs can be bought anywhere—batteries can be purchased anywhere—coils can be had anywhere—and you can easily do the work yourself. It is universal ignition.

## The Genuine BOSCH Magneto—Type "F"

The world over the name *BOSCH* stands for high quality, greatest efficiency and best results in magneto ignition. The Genuine BOSCH Magneto is a Standard product of the BOSCH factory, backed by the BOSCH reputation and factory guarantee. It is a wonderful machine, very simply constructed, yet an extremely well finished high-grade product. Experts and those who have used BOSCH Ignition will tell you that the name BOSCH means far more to the engine user than the money you pay for it.

We regularly furnish battery, as many customers wish to avoid the expense of magneto, and the battery equipped engine costs less, but for the benefit of those who prefer

magneto ignition, we recommend and supply this genuine BOSCH Type "F" Magneto. This is the new BOSCH Magneto with the double trip. It costs more money than ordinary magnetos, but in order to enable you to have your WITTE Engine equipped with this fine magneto we absorb a part of the cost and place BOSCH Ignition in the plate of battery when you order.

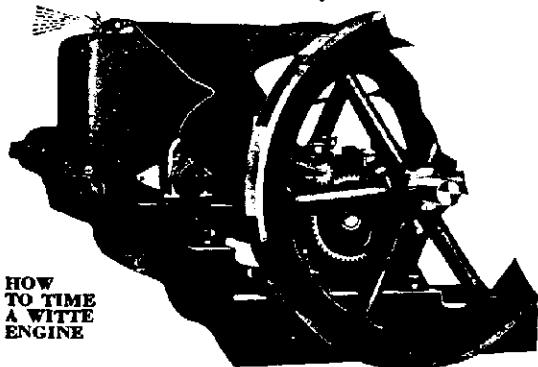


BOSCH TYPE "F"

This is a wonderful combination—a high-grade WITTE Throttling-Governor Kerosene Engine and the Genuine BOSCH Magneto Ignition. It makes our line of engines superior to anything that is on the market to-day.

## Engines Must be Properly Timed

Proper operation of any engine depends upon exactness. Fuel must go in and exhaust must go out at the right time. Spark must be fired exactly when it is needed and everything else must be exactly right for the best of results. That's easy on a WITTE Engine.



HOW TO TIME A WITTE ENGINE

Our system of timing enables you to be your own expert. As an illustration—you want to know if the engine fires the spark at the right time: Just lay a board, rule or stick diagonally on top of the hopper, as illustrated, turn the fly-wheel around to where it says "igniter fires," and instantly you will see the spark, and marks on fly-wheel will be at end of board. If it does not fire you will know the adjustment is wrong and you will set it so it fires at that point. Or if you want to set your valve, just turn the wheel on over until end of stick points to words "exhaust opens," and you will find your exhaust valve *just opening*. Isn't that easy? Anyone can do that, illustrating the easy manner of adjusting ignition and valves.

You drive an auto and you know that if the ignition and valves of your engine are correct, then you have a *correct* engine. WITTE users can correct their own engines and *keep them corrected*. That's the reason WITTE Engine power and service is of the superior kind.

# Witte

1911 .... 5747-6190  
1912 .... 6191-8893  
1913 .... 8894-11399  
1914 .... 11400-17463  
1915 .... 17464-24869  
1916 .... 24870-30859  
1917 .... 30860-36124  
1918 .... 36125-40979  
1919 .... 40980-46263  
1920 .... 46264-53693  
1921 .... 53694-58438  
1922 .... 58439-62047  
1922 .... B101-B2545  
1923 .... B2546-B8849  
1924 .... B8850-B18680  
1925 .... B18681-B30370  
1926 .... B30371-B41863  
1927 .... B41864-B50000  
1928 .... B50001-B61721  
1927 .... 75001-76400  
1928 .... 76401-83160  
1929 .... 83161-88599  
1930 .... 88600-92049  
1931 .... 92050-92896  
1932 .... 92897-93557  
1933 .... 93558-93850  
1934 .... 93851-94498  
1935 .... 94499-95611  
1936 .... 95612-96794  
1937 .... 96795-98183  
1938 .... 98184-98821  
1939 .... 98822-99532  
1940 .... 99533-100049  
1941 .... 100050-100827  
1942 .... 100828-101290  
1943 .... 101291-101999  
1944 .... 102000-103441  
1945 .... 103442-104318  
1946 .... 104319-104620  
1947 .... 104621-104682  
1948 .... 104683-104786  
1949 .... 194787-104794

## Type B & Type C Engines

1947 .... 739-1640  
1948 .... 1641-2840  
1949 .... 2841-3223  
1950 .... 3224-3776  
1951 .... 3777-4639  
1952 .... 4640-5080  
1953 .... 5081-5742  
1954 .... 5743-6137

## MECO Engines

1915 .... A1000-A1623  
1916 .... A1624-A2638  
1917 .... A2639-A4343  
1918 .... A4344-A5011  
1919 .... A5012-A5321  
1920 .... A5322-A5950