The BEEMAN
Tractor In Action

America's Pioneer
MANUFACTURED BY
THE NEW BEEMAN TRACTOR CO.
38th Avenue & 16th Street N. E.
MINNEAPOLIS, MINNESOTA, U. S. A.
Modern ingenuity has provided mechanical means to handle all types of work. Human strength has more than met its equal. The small man with power as his assistant is in no way handicapped in the quantity and quality of his work. The large man, who glories in his strength, is not averse to saving it. Power permits him to do this and at the same time turn out more and better work.

Large tractors are made for the large farms. Sizes are graduated down to the varying requirements of users. The Beeman Tractors meet the more modest, but just as important, demands of the small acreage worker. To this class of producers, the Beeman can be of great help and comfort. We might say, complete help, as it makes you independent of calling in outside assistance. The Beeman is always ready for a few minutes’ work or an all day’s job. It may be plowing, discing, harrowing or cultivating. It may be cutting your lawn or mowing your hay; again it may be sawing your winter’s wood or other belt work. It may be hauling your vegetables in from the field or your fertilizer on the land; whatever the job, the Beeman allows you to do the work economically, business-like and in a pleasing manner.

Southampton, England

Gentlemen:

After having used the Beeman Tractor for the last four years on our own plantation, our considered opinion is that the Beeman Multi-Service Tractor is by far the best and most powerful small tractor at present on the market and considering power and long life (there are several in this country which have been working steadily for eighteen years), it is by far the cheapest.

Yours respectfully,

SCARLETT & DAVIDSON.

Beeman Tractors Soon Pay for Themselves
Gentlemen:

About sixty days ago I purchased one of the Utility Beeman Garden Tractors.

I want to say, Gentlemen, that I not only found this garden tractor as I was told by your salesman, but I even found it better than represented, and I want you to know that I appreciate this little tractor as I feel that I am now on the road to more profits. On my five acres this machine is eliminating the care, feed and expense of the horses which I have been using in the past.

I certainly am a friend to this machine. I have tried it under many different conditions. From a power standpoint, I cannot conceive where it gets it, but it's there.

It may be well that I mention my wife. While I think that I am as strong and as efficient as the average man, she operates this little tractor in all work on the place really better than I do myself. There are several of my neighbors who I am quite sure will be interested in the spring for one of these great little garden tools.

Respectfully yours,
(Signed) CHARLES ZINT.

Beeman Tractors

This sturdy little tractor is made in one size only. More than 9000 Beemans are at work throughout the world—over 7000 in the U. S. A. The first to appear by several years. It was brought out by the Beeman Co. and has had their undivided attention since, as the Beeman Co. make nothing else. This means a great deal to the purchaser as it insures him years of development not only in the tractor, but in the equipment with which the work is actually done. Thousands of BEEMANS at work in various parts of the U. S. and throughout the world testify to its ability.

The Beeman Multi-Service Tractor does the work of one large horse or a light team; this fact, kept in mind, will allow you to visualize very closely as to what it will do on your own place. Complete information can always be secured by addressing us or by getting in touch with our local representative. The Beeman Multi-Service Tractor affords the owner of a few acres the means of caring for it fully, as it does all the various operations—does each well, in a business-like manner and will please you with its economy in doing it.

Your acres demand help to handle. Horses are a big care and requires about all you can raise to feed them. The query will arise in your mind as to whether the horses are working for you or you are working for the horses.

The Beeman solves the question. It does the work better. It costs only when at work. The “no work” or no expense days during the year are many and represent a profit to put in your pocket instead of into horse feed.

Quick, Cheap, Thorough Cultivation
You buy a tractor for service. You want some good out of it, something more than a temporary affair. Beeman is made to stay with you in your work. Examine the following points carefully. Do you not think they show a desire to see how well we can build — and further, that a tractor so constructed merits your confidence.

**MAIN BEARINGS** are two for the crank shaft. At this important point the Beeman is fitted with TIMKEN ROLLER BEARINGS, which are practically indestructible.

**MOTORS** — We specialize in WATER COOLED motor tractors, and while they cost double to build, they have many advantages over -air cooled motors, and without much additional cost to the user.

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CRANK SHAFT — drop forging, finished 1 1/4" diam., 1 1/2" at the crank pin. Counter weights on the shaft also the two balanced fly wheels assures a smooth running motor.

CLUTCH SHAFT — Runs on two sets of Strom Ball Bearings and in addition has a set of end thrust ball bearings which fits it well for its work.

DIFFERENTIAL — The transmission shaft is in two parts, one telescoping the other thus allowing either wheel to turn independent of the other.

CONNECTING ROD — Is a heavy drop forging fitted with a detachable, bronze back, babbitt lined bearing. Laminated Shims provide for wear adjustment. This bearing is 1 1/4" wide by 1 1/2" in diam. thus providing a large wearing surface. Bearings are readily replaced when required.

GEARS — All are CUT STEEL and machined. The important gears, as the crank shaft gear, the bull gears, the fan shaft and magneto gears are heat treated and hardened.

WEAR PREVENTION — Gears, Pistons and moving parts are all assembled within a tight crank case and run in a continuous bath of oil. This provides lubrication but to make this effective, dust and dirt must be excluded. This is done by furnishing an effective moist Air Cleaner which prevents any dirt from entering through the Carburetor. The Breather is fitted with an automatic valve which allows the engine to exhale but not inhale, effectually sealing this point. All bearings are tight and in addition are fitted with heavy felt washers as a further precaution that all dirt may be eliminated. These devices compel all air to enter the tractor through the carburetor therefore through the Air Cleaner where it is relieved of the dust so destructive to moving parts.

OUTSIDE BEARINGS — Are cared for by providing a clean and convenient way of oiling. Each bearing is fitted with an Alenite Nipple. The gun for forcing the oil into the bearings goes with each Multi-Service Tractor.

CYLINDER HEAD — Readily removed for cleaning carbon or grinding valves.

RADIATOR — Honey Comb Type made of copper stock. It is aided in the cooling by a ball bearing fan which draws a large volume of cool air through the radiator and prevents over heating in hot summer weather. Air cooled engines are satisfactory where the pistons are small, they do not have so much heat to radiate nor do they produce the power. Beeman Cylinder, 3 1/2" in diam. is furnishing the power that plows and does other severe work. It makes heat but is readily cared for by the Beeman cooling system. Consider well these features. They are important. They are MOSTLY EXCLUSIVE in the Beeman and will immediately be approved by the mechanically inclined. We would like to have you understand the various features touched on and as an aid, there follows a sectional view of the crank case and its parts.

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New Beeman Tractor Co.,
Minneapolis, Minn.

Gentlemen:
I received my tractor sometime ago. It is some tractor, I am well pleased with it.

VERNIE HOFFMAN, Box 97.
Some of the Mechanical Parts of the Tractor That May Interest You

CRANK CASE illustrated below, showing the working parts, therein. This will give you a good idea of the Beeman Power Plant, for the Multi-Service Tractor. It indicates the care taken that we may furnish you a tractor that will deliver the maximum of work with the minimum of wear.

Most of the moving parts are compactly gathered in this case and run in a continuous bath of oil. The case is tight that oil may be held and dirt excluded. As a further precaution against dust, we furnish with each tractor an effective moist air cleaner, Donaldson make.

All air entering the tractor must pass through an oil saturated composition in the cleaner, which relieves it of any dirt, thus providing ideal conditions for the working parts.

CRANK SHAFT—1 3/4" in diameter. 1 3/4" at the crank pin. The two main bearings of the tractor are located on the crank shaft as shown by B136C. They carry the heavy load and are made equal to the demands by supplying TIMKEN ROLLER BEARINGS AT THIS IMPORTANT POINT.

These bearings are located next to the crank shaft and remove all wear from the shaft. The outside of this same bearing, B136C, forms the bearing for the bull wheels.

Counter Weights on the crank shaft place it in balance and accounts for the smooth running motor of the Beeman. See B211, R & L.

TRANSMISSION SHAFT runs on Strom Ball Bearings which are located in boxes, No. B933 at point marked B176. U Thrust Ball Bearings are used. See B325, to take the end thrust of the spring B39, all of which cares for this shaft properly.

CLUTCH. Large gear, B928, takes power from small gear, B133, on the crank shaft. There is that are under control of the operator at the end stops the tractor while the engine continues to and transmits the power through the plates, through the transmission shaft, through the two small gears, B239, (shown on each end of this bull wheels, thus making a simple and effective bearings can be cared for without getting all dished up, as each box is fitted with an Alemite Nipple and the gun, to force the grease into the bearing, goes with each Multi-Service Tractor.

You are getting a superior machine in the Beeman. It will do the work today. It will do it tomorrow and will continue to do so.

The New Beeman Tractor Co.,
Minneapolis, Minn.
Gentlemen:

Will you kindly send us your catalog on the New Beeman Tractor. We have one of the old model Beeman Tractors which we use in our Landscape business and we would not take $500.00 for it if we could not get another one in its place. It does the work of four men, and the fact of the matter is, if we had to go back to doing our work by hand we would quit the Landscape business. That is how much we think of our little Beeman. We are at a loss to know how it would be possible to improve the old Beeman therefore we are very much interested in the new Beeman.

Wishing you the greatest success with the new Beeman, we beg to remain,

Yours very truly,
EDWARD ELLERMAN & SON.

Does Two Horses Work at 1/4 Horse Cost
The Small Acreage Worker

Your duties may keep you tied up during business hours, and at other times you anticipate being pleasantly occupied in taking care of the crops on your several acres. Anticipation is often quite different from the realization. In this case it leads you into real work and while you may like work, you will find it soon becomes a burden if you do what is required to keep it up. If you do not, your farming is a failure, as growing crops demand care at all times. A Beeman introduced to your work would relieve you of the arduous part and restore to you the pleasure originally expected in handling it. The Beeman responds to your wishes and directions. It has no choice in the kind of work. It will do your bidding. If it be plowing, it will show you a good job. If it be cultivating or discing or other types of harrowing, it will show you results equally good. It will also do any belt work you may have that does not require over 5 horse power, as well as any light hauling about the place. It does all this work thoroughly. It does it right. It does it economically.

With the Beeman you can care for four or six acres and not interfere with your regular work during the day.

The Beeman turns the “all time job” into pick up work for evenings and spare time. With a Beeman, you are no longer pushed by the work, but on the contrary are crowding the work all the time. Your cultivating is timely. Your other operations are governed to meet the requirements of the growing plants. It is all cared for when it should be. You handle the work when it is ready and not when you can get around to it. Being able to do this gives you better crops. It keeps your fields neat and clean and is a source of satisfaction particularly when called on by your friends.

The New Beeman Tractor Company,
Minneapolis, Minnesota.

Dear Sir:

Last fall I purchased a Garden Tractor from you people. This Tractor has been most satisfactory. We have done almost everything with it. I am enclosing photograph of Tractor pulling a four-wheel trailer with 60 bushels of beets—and we pulled this off the field,

R. M. RABEY.

Hill City, Minnesota
HARROWING CONTINUED

Cut 611 at the right shows Beeman specially designed 18 Spike Tooth Harrow which is attached direct to the Trailer, no extra hitch required. This harrow is our own design and is naturally well fitted to work in connection with the Beeman. It is a heavy duty harrow, lever permits the teeth being set at any angle. It will meet your expectations fully. Order 18 Spike Tooth Harrow only.

Cut 611—Beeman 18 Heavy Spike Tooth Harrow attached to the Trailer

Cut 620 on the left shows a very satisfactory "set up" of five Spring Teeth attached to the Trailer. It works much better than a special spring tooth harrow, is more satisfactory and costs much less. Order the Individual Spring Teeth, the blocks go with them and are complete in themselves for attaching. The Trailer lever furnishes means of handling the spring teeth, of putting on different degrees of pressure and enables the operator to raise them free from the ground for transportation.

Cut 620—Set of five Spring Teeth attached to Trailer

Cut 638 on the right shows another implement that attaches to the Trailer without a special hitch. This is an Acme 6 blade pulverizing harrow. A splendid tool for preparing the seed bed. It breaks the soil up into fine fluffy mulch that holds the moisture. It levels the surface. The Beeman method of handling the Acme assures unusually successful results as we are able to apply spring pressure through the Trailer lever and at the same time it is free to follow the contour of the surface being worked. The lever of Trailer allows the harrow to be raised for transportation. Order Acme Harrow only. It will arrive ready to be attached to Trailer.

Gentlemen:

This is my second Beeman and it surely is more than what is said for it in a garden or orchard.

My old one that I bought in 1918 is still going strong. The only repairs being new piston rings and one new spark plug.

My five acres are very rolling but the Beeman sticks to the job better than horses and for much less expense.

Yours trul,

B. H. MCILHENNY.
Trailer

Below and at left is shown the TRAILER attached to the Tractor with a set of cultivating tools in position for work. The tools are A100. You will have inferred from preceding descriptions that the Trailer is used for many purposes. This is true, the Trailer is almost a "Universal" equipment part. It is quite possible that it will care for all your operations. We will explain its uses that you may judge the necessity of additional equipment for your work.

The Trailer is the basis for attaching all types of cultivating tools. The Trailer will do all kinds of cultivating work except the care of crop rows that are under 30" in width. For such work order A1 and A32. The Trailer is also the basis for attaching the Piow when it is used with a center hitch and is the only implement requiring a special hitch that it may be attached to the Trailer. The hitch is A122 and having A122 you can make use of it by also attaching a Lister or Potato Digger. Nothing in the line of the extra hitches is required for attaching to the Trailer; Cultivating Tools, Discs, Spike Tooth or Acme Harrows or a set of Spring Teeth or a Bulb Lifter or a cart for hauling purposes. The advantage of being able to attach to the Trailer the different tools and implements should not be underestimated. In each instance, you have the very best of a working outfit, convenient, handles without effort, does the work right and you are saved the expense of buying the extra hitches and you do not have these extra hitches to store and care for, when not in use. The Trailer is called for with almost every tractor sold which is a very good indication of its satisfaction. Order A107 and A109 for firm soil or if the soil is light and loose specify A107A and A109, the former has 3" tire wheels while the latter has 4".

The Trailer is strong and rigid, well adapting it to the severe work it is called on to handle. The torque of the motor is absorbed by the Trailer, the Trailer handles the tools and implements thus eliminating all strain from the operator. A boy or elderly person can work with the Trailer and feel it a pleasure in doing so. The head end of the Trailer is fitted with large rollers on which the rear of the tractor rests and on which the tractor rolls to the right or to the left in response to the operator in steering the tractor, a further reduction of effort. The point of attaching the Trailer to the tractor acts as a hinge, making the turn to the right or left easy by simply swinging the handles of the tractor in the proper direction.

The Trailer is all contained within the width of the tractor. This allows you to work readily in berry bushes, close to trees, in between corn rows, potatoes, cotton, etc. There are no extensions to catch and injure plants, bushes or trees. A lever with spring pressure provides an easy way of handling the tools, also it is the means of regulating the depth and to retain any desired depth of the tools. A balance spring on the Trailer is of great assistance in raising and lowering the tools.

The Trailer is attached to the tractor by a locking device and can be placed in position or detached from tractor in a moment, no tools required other than your two hands. For general work in vineyards, orchards, berry bushes, wide rowed crops, etc., the Trailer can not be equalled.

Gentlemen:

Battle Lake, Minn.

We have used the Beeman two seasons and work it quite steady. It consumes about 1 1/2 gallons gas for a long day's cultivating.

We like the machine fine and could not be without it now and is the only thing we have to keep the weeds down.

Yours very truly,

SWEDBERG BROS. NURSERIES.
A story in pictures applied to the raising of Gladiolus. The Beeman Multi-Service Tractor is used for all operations. These operations can be applied wholly or in part to the raising of other types of crops.

**Cut 630**
Trenching to receive the Bulbs using 7" center shovel attached to Trailer.

**Cut 631**
Covering the bulbs after planting, using right and left 7" turn shovels and Trailer.

**Cut 634**
Bulb Lifter at work. Bulbs are loosened and left standing in the soil that they may not be exposed to the sun.

**Cut 633**
Same as 632 showing front view of tractor with plant guards on the bull wheels.

**Cut 635**
Showing ease in which bulbs are gathered after lifting process shown by cut 634.

**Cut 632**
Cultivating Glads in 3' rows using Trailer and tools A100. Rear view.

The Beeman Handles All Your Work
SPECIFICATIONS

MOTOR:
Our own design and make. One Cylinder, 4 cycle, of the L Head vertical type. 3½ inch bore, 4½ inch stroke. 5 Horse-power.

CLUTCH:
Double Disc Cone Type. Two-piece telescoping shaft provides a differential.

TRANSMISSION:
Gears—all are machine cut and heat treated for hardness

BEARINGS:

MOVING PARTS:
Run in a continuous bath of oil. The crank case is perfectly tight, that oil may be retained and dust excluded.

SPEED:
230 to 1500 R. P. M. Travels from one to three miles an hour on the road and ¾ to 2½ miles an hour in the field.

COOLING SYSTEM:
It is water cooled, by a thermosyphon system with a comb radiator and fan.

OILING SYSTEM:

CARBURETOR:
Kingston Model “L” ¾ inch.

WATER COOLED - A
DEVELOPS ITS MAXIMUM
POWER REGARDLESS
OF WEATHER OR WIND
CONDITIONS

THE BEEMAN TRACTOR and WALK
warranted to be made of good materials, and when kept in good order, are capable of delivering 5-horse power. Should any defective parts be discovered on account of defective materials or construction, it will be supplied free of charge. Defective parts are delivered, at the expense of the purchaser, to The New Beeman Tractor Company for inspection.

You Need It Now
SPECIFICATIONS

IGNITION:
High Tension Magneto with Impulse starter.

FUEL:
Gasoline. One gallon of gasoline will run the machine six hours under work in the field and about eight hours on the belt.

DUST PROTECTION:
All motor parts are enclosed. The inlet for air at the carburetor is protected by an effective Dry Air Cleaner. The Breather Pipe is fitted with an automatic valve allowing the engine to exhale but not to inhale. The two effectually excluding dirt and dust from the internal parts.

BELT PULLEY:
A 4 ¼ inch diameter and 3 ¾ inch face pulley is furnished as standard equipment. The pulley runs at motor speed.

WHEELS:
25 inches in diameter.

WEIGHT:
Approximately 650 lbs. uncrated.

WIDTH:
17 ¼ inches from the outside of the rim of one wheel to the outside of the rim of the other. Inside width 10 ¾ in.

LENGTH:
86 inches—front of the engine to the rear of the handles.

HEIGHT:
40 inches.

WARRANTY

The Walking engine herein described is material and in a good and workmanlike order and properly operated to be capable if any part of this machine prove defective or workmanship within one year of delivered free of charge, F.O.B. factory, provided delivered, transportation charges paid. At Minneapolis, Minnesota, for in-
FIRST IN PERFORMANCE

Narrow Row Work With the Beeman Multi-Service Tractor

SEEDING

The seeding may be handled one row at a time, any width row required or three rows at a time, the rows to be from 12" to 18" apart. Rows so planted may be later cultivated one or three rows at once as the cultivating attachments are subject to adjustment to correspond with the seeding.

Cut 514 on the right shows the three row seeder attachment. The seeders may be either the Iron King or the Planet Junior. The seeders are raised on the carriage for turning around or for transportation which is a convenience not to be overlooked as otherwise it would be necessary to raise them by the tractor handles and main strength, hold them up until you are around into position to drop them and this you will find is the usual method and it is far from play in handling them. Order A143 if Iron King Seeders are wanted, A145 if Planet Jr. are desired.

CULTIVATING

Cut 324 on the left shows the Beeman in one row work. The rows may have been sown by hand or with the tractor. They may be straight or crooked. It is all the same to the Beeman. The BEEMAN PATENT TOOL CONTROL ALLOWS THE SAME CLOSE WORK without cutting out any plants. The close work is worth DOLLARS as it saves them in the reduction of hand weeding.

Order A1 and the cultivating tools desired, also A32 for traction lugs or A40 for 6" rims giving support in soft ground as well as traction. The Narrow Row Cultivating Frame A1 will take care of ordinary demands in narrow row work. It will handle 4 or 5 acres or more of narrow row cultivation. If you have more than this to care for, it will pay you to outfit with the three row seeders and three row cultivator as it allows you to do the work three times faster. It would include your seeding, cultivating and the lifting of the onions in the fall.

The New Beeman Tractor Co.,
Minneapolis, Minnesota.

Gentlemen:

We have our tractor in operation and it is causing quite a lot of comment as we live in a town where there are a great many people who see it.

Will say that our tractor, while bought in 1919, is still giving us excellent service.

Very truly yours,

FAYETTE WELDING & MACHINE WORKS,
By: M. R. Cochran.

Does the Work of Many Men with Wheel Hoes

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PLOWING

The Speed is controlled by the operator and may be set at any point from ¾ to 2 ½ miles per hour. The Beeman will do you a good job of plowing. We have two styles of hitches for plowing, one of which is special to the Beeman, both are reliable. Your work and soil conditions determine which to choose.

The Offset Hitch is 52" wide. It projects to the left of the tractor 15" and to the right of the tractor 12".

The Hitch parts are A108 and A109. Also plow and rolling coulter if desired.

BEEMAN method of handling the heavier tools and implements are different from all others, allow it to be done with ease and without being whipped and jerked all over. The handles are not fastened to a frame like plow handles (all others are) and the motion of the tractor does not keep them whipping around to the discomfort of the operator.

The heavier tools and implements are not fastened to the tractor handles and the operator is not required to carry their weight as well as the torque of the motor in turning around. The Beeman is provided with a carriage to carry the Implements and a lever to raise and lower them. The lever acting as a depth gauge for the tools.

TO ATTACH NO. A-108 PARTS TO TRACTOR

See illustration

Raise up handles of tractor, tipping it forward—letting front end rest on radiator guard, a box or other similar article. Remove caster wheels by loosening set screws in collars on shanks.

Put B-1264 Crescent shaped part made of round stock, to place as indicated.

Fasten casting B1261 to male draw bar B617 (which is in front of lower end of handles, and attached to base of tractor. See illustration).

TO ATTACH OFFSET PLOW HITCH NO. A-108 AND TRAILER IMPLEMENT ATTACHMENT NO. A-107

It is necessary to have the parts of A109 in place in order to connect these attachments.

Tip tractor forward. The plow or implement attachment should then be pulled forward and the front end of frame hooked into casting B1262 as illustrated. Then let the tractor come back to operating position, the spring pressed latch B1265 fitting to place in plow or implement frame.

To detach press upper end of latch to one side, lift up on handle and pull plow or implement attachment back. No tools are required to attach or detach.

The correct position of tractor in operating is to have it tipped forward very slightly with the plow or implement attachment connected while all are standing on a level floor or ground.

Beeman Adapts Itself to Your Work
PLOWING WITH THE TRAILER

This hitch operates in the usual manner, one bull wheel of tractor and one of the trailer wheels travel in the furrow. It is a center hitch, fully contained within the width of the tractor which makes it ideal for plowing in berry bushes, chicken runs, etc., or handling work where space is limited. The lever on trailer furnishes the means for handling the plow and to raise it onto the carriage for handling the plow and to raise it onto the carriage for turning around. This hitch will work in any soil and should be selected in preference to the offset hitch if your soil is sandy or light and loose. Hitch A122 is required to attach the plow to the trailer. Also order plow and rolling coulter if wanted.

HARROWING WITH THE BEEAN

Below is shown the Disc Harrow in connection with the Trailer. The Disc is in two sections, there being 4-12" discs to each section. The sections are set at any angle desired and can be changed to any other angle even while tractor is under motion. The discs can be used for making the ground ready or for cultivating. The discs are attached to the trailer without extra hitches and in a moment’s time. In a similar manner and just as readily, you can attach to the trailer a Spike Tooth, a Spring Tooth or an Acme Pulverizing Harrow and you have a real outfit in either case and at little cost as you save the cost of the usual extra hitches for each operation. You simply order the implement wanted.

The Trailer allows you to handle the implements easily. It cuts the work out of work. The torque of the motor is absorbed by the Trailer. The Implements or Tools ride the Trailer until you put them to work and this is handled by the Trailer Lever and again the lever throws them back onto the Trailer for turning at the row end or for transportation. The trailer relieves the operator of the usual hard work and requires of him only the steering of the tractor and the handling of the controls.

Gentlemen:

I bought a Beeman Tractor last Fall and you remember I inquired if it would plow.

I wanted to plant some berries alongside of the orchard and I took the Beeman and plowed it. This hadn’t been plowed for eight years. It was a blue grass sod and clay ground. I don’t know where all the power comes from but this was sure a good test. I think this is a wonderful tractor.

Yours truly,

F. E. REITTI, Toledo, Ohio.

Cut 622—Beeman Center Plow Hitch, Plow Attached to Trailer

Cut 518—Beeman With Trailer and Disc Harrow

Built for You
advantage over the producer using less advanced and slower methods. Produce so raised sells for the same price, but represents a much larger profit. It pays to equip for three row work if you are handling six or more acres of crops having rows 18 inches or less apart. A few acres can be handled rapidly and efficiently, one row at a time.

Cut 514 at the left shows Beeman Multi-Service Tractor equipped for three row cultivating. The caster wheels gnage the depth of the tools and serve as a carriage in turning around or going to and from the field. The tool supports for each row have an independent up and down movement but are held rigid as to side movements. In steering, the eye follows one row only, the tool control moves the tools to the right or left, as the unevenness in the row demands. If you have sown three rows at once, the other two rows will have the same crook and are likewise cared for. Onion lifters may be substituted for the cultivating tools, allowing three rows of onions to be lifted simultaneously, laying them on the surface for drying. The illustration below shows an efficient onion lifter. It is arranged by reversing a pair of regular beet hoes and adding a leader to each hoe that the tops may be straightened out and avoid catching on the hoes. We can supply the leaders and shanks, also the hoes. The lifters may be used in one or three row work.

The Beeman Can be Operated by Man or Woman
The Beeman serves you the year around. Let it keep your paths open during the winter months. We can furnish the plow or you can make one.

Another tough job made easy with the Beeman. Your winter's wood cut up in jiffy time. Order AS2, also belt and 22-inch saw if desired.

It grinds your feed. It handles any belt work not requiring over five horse power.

A well made cart. Convenient for hauling the vegetables in and the fertilizer out. We can furnish if desired.

It runs your pump. It goes from job to job on its own power.

The New Beeman Tractor Co., Minneapolis, Minn.

Gentlemen:
Please send me a float for my carburetor by mail, first item of repair or expense of any kind. We use the oil. The head has never been off the engine nor the valves. We have 28 acres in garden. Four acres of this is in without our BEEMAN TRACTOR.

C.O.D. I have used my tractor four seasons and this is the best grade of cylinder oil we can buy and high test gasbearings tightened.

Perry, Iowa.

There is No "IRK" in WORK With the Beeman

Yours very truly,
F. M. FAZEL.
the open space you wish to maintain between the plant rows. The Discs cut the runners off and keep the plants where they belong. It is customary to angle the discs slightly that the earth may be thrown to the center a trifle. The Disc plates also serve as shields by preventing the intermediate teeth from throwing dirt onto the plants. The Discs can be used for many purposes throughout the season.

Below is shown the Beeman with a Pony Field Mower. The Mower has a sickle bar 3 ft. 6 in. long. This is a regular Mower. The only special is the stub pole which is readily made or the long pole can be cut off. The stub pole is of such length as to place the rider in position to handle the controls from the seat. This outfit handles your haying or will cut the grass in your orchard or subdue the tall weeds. This gives you a real outfit, no make-shift sickle bars to attach, and the cost is practically the same.

Suburban life with the Beeman remains attractive. No jobs to dread. The Beeman makes them all easy.

Cut 654. Pony Field Mower and Hitch

Gentlemen:

We are pleased to report to you that the Tractor Mower is giving us satisfaction and is the best mower we have in use at this time.

LYNNHURST CEMETERY CO., Knoxville, Tenn., by W. C. Lintz.

Gentlemen:

Our Quincy Boulevard and Park Ass'n. own four of your tractors and I as Superintendent find them the most reliable power I know of for work in this class. We pull three 30-inch cutting units with these tractors and they are on the job every day.

JOHN E. MEHAFYY, Supt.
Cultivating Tools

A90 is made up of a careful selection of cultivating tools. It includes such as are in general use and excludes the rarely used ones. Cut 307 at the right shows same except that there are included five heavy shanks and steels not illustrated, but can be seen by turning to the cut of tractor occupying the two center pages of the catalog. If the tools last referred to only are wanted, order A100, also shown by cut 308. These are all real tools, are heavy for severe work and are the product of well known manufacturers. We have special tools for special work. If you will explain what you wish to do, the chances are that we can furnish tools well suited for your requirements.

The Spring Tooth at the left may be attached to the cultivating frame A1 or to the trailer A107. Five make a set and are invaluable in working certain types of soil. In attaching, simply free the holders of the tools they may hold and in their place substitute the Spring Teeth. Any of the Too's in A90 can be just as readily attached to A1 or A107.

Place your tillage problem before us. We may be able to suggest the tools or method that will simplify what now appears difficult.

Spring Teeth for Multi-Service Tractor. They are furnished ready to attach as shown.

Showing part of tools in A90 assortment. In addition are two curved and three straight shanks with five 2 1/4 x 8 inch steels as shown in cut 308 below.

Cut 308

Showing A100 attached to tool bar. The 5 shanks and steels are also included in A90. See price list for itemized list of parts in A90 or

The New Beeman Tractor Co,
Minneapolis, Minn.

Gentlemen:

Some five or six years ago we purchased from Mr. Ridgway of Louisville, Kentucky, a garden tractor. This tractor has been the most satisfactory we have ever had on the farm, but recently the party failed to give it the proper amount of oil, hence the bearings on the piston rod have become somewhat worn and also the rubber connection on the tractor is worn out. Will you kindly mail the proper bearings and hose connection by parcel post as we are needing it badly in the garden.

NATIONAL HAME & CHAIN CO.,
GEO. D. TODD,
Pres. New Albany, Ind.

Economy, Efficiency, Real Service

Page Eighteen
The Beeman goes to Palestine

ON THE SHORE OF THE GALILEE
Zionism has remade many communities into prosperous towns and villages

IN CONCLUSION

Permit us to repeat that in making up and submitting this catalog to you, our main endeavor is to give you an accurate and dependable picture of our products without overestimating their good qualities and ability to perform in the field. We heartily recommend our Multi-Service Tractor for the heavy work of plowing.

And while the Beeman Multi-Service Tractor will do the work of horses and operate under less favorable conditions, it is not intended for use on steep hillsides, on land that is full of stumps and stones or on sandy land where the soil is so light, loose and granulated as to provide no traction for the angle lugs on our broad faced drive wheels.

For Additional Information
THE NEW BEEMAN TRACTOR COMPANY
38th Avenue N. E. and 5th Street
Minneapolis, Minnesota

The Beeman Makes Good