THINK IT THROUGH!

The commercial gardener is a business man bound by the laws which operate in other business fields, and as such is a producer not only for himself, but must supply the needs of many others. Only under a system of commercialized gardening are the gardeners of this country able to produce enough vegetables for themselves and the constantly increasing population of our cities and towns. As a result of commercialized gardening, the per capita production of the American gardener has constantly increased.

The production cost is a vital question with the gardener. Brute strength and toil alone can never win success. The man who THINKS learns to direct other forces to labor for him.

Because gasoline can be used for so many things, it is one of the greatest laboring forces the world has known. The man who makes it work for him cannot only enjoy the benefits of better living conditions, but increase his earning power as well.

Every truck grower, gardener, nurseryman and florist has problems of his own and must work out a satisfactory solution to them. Throughout every state in the United States and in many foreign countries the SHAW DU-ALL Garden Tractor has helped solve their problems. This is the first step in the proper selection of equipment necessary to accomplish the desired and possible results.

Think your own problems through. Decide whether you can afford to be without a SHAW DU-ALL Garden Tractor.

SHAW MANUFACTURING COMPANY
Galesburg, Kansas

Let the buying power of the World's Largest Factory producing Garden Tractors and Power Mowers help you to buy wisely and thus save the profits you worked so hard to make.
CATALOG
No. 7

SHAW DU-ALL
Garden Tractors and
Power Mowers

Established 1903—25
Successful Years Building Gasoline Engines,
Farm and Garden Tractors!

The Progressive Gardener
Uses a
SHAW DU-ALL
JUST A WORD--

The following pages of this catalog illustrate and describe our New 1929 Models SHAW DU-ALL Garden Tractors. There are no radical changes in the 1929 SHAW DU-ALL Garden Tractors except that we have added some refinements, making the best Garden Tractors that we have ever offered.

Exhaustive experimenting, together with helpful hints from actual users, enables us to embody in our 1929 SHAW DU-ALL Garden Tractors all of the desirable requisites of an all-around, sturdy, efficient garden tractor. SHAW Garden Tractors are rightly named "DU-ALL", for they actually do all. They will plow, harrow, furrow, plant, cultivate, mow lawns, cut tall grass and weeds, etc; run belt machinery such as water pumps, churns, washing machines, cream separators, lathes, emery wheels, etc., etc.

The rapid increase in sales of SHAW DU-ALL Garden Tractors from year to year and our greatly increased production facilities permit us to offer highest grade SHAW DU-ALL Garden Tractors at surprisingly low figures. Our 1929 SHAW DU-ALL Garden Tractors are within the means of all!

Our experience in building and selling SHAW DU-ALL Garden Tractors for the past several years has proved to us that there is an increasing demand for a light-weight yet powerful, two-wheel drive, garden tractor—one that will not only cultivate but will actually plow. We had courage enough to stay in the field and develop a Garden Tractor that satisfactorily meets the needs of the truck grower, market gardener, nurseryman, florist, landscape gardener, estate owner, etc.

REMEMBER—SHAW DU-ALL Garden Tractors are manufactured by an old established firm that has had over a quarter century's experience in the manufacture of gasoline engines, farm and garden tractors. You are taking no chances when you invest in a SHAW DU-ALL!
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# CHOOSING THE PROPER TRACTOR

The Model SHAW DU-ALL Garden Tractor to buy will depend a great deal on your acreage as well as the kind of crops grown. For small acreages, especially for close row crops, the Model T25 is the most popular machine. While this machine is designed for cultivating, pulling seeders, harrows, and other light tools, it does a real good job pulling a 7-inch moldboard plow—especially when running in low gear.

The Model T45 is excellent for the larger acreages and especially if there is considerable moldboard plowing to do. The general construction of this tractor is the same as the Model T25 and it will pull about twice what the Model T25 will. In fact, the Model T45 pulls about the same load that the Order No. T252 Twin Tractor pulls, and we recommend it in preference to the Twin Engine Tractor because the engine on the Model T45 has a governor that holds the speed desired for the job, and the governor also makes it excellent for belt work. It handles the 10-inch moldboard plow nicely and will do the work that the Model T25 will do and will do the heavier work with more speed. The tread of the Model T45 is 4 inches wider than the Model T25.

The regular Model T25 and Model T45 Tractors can be equipped with a reverse gear at an extra cost. The information given on the following pages will aid you in choosing the proper SHAW DU-ALL Garden Tractor and Tools for your work.
On low gear will plow over 2/3 of an acre in 8 hours, and on high gear will plow over 1 1/4 acres in 8 hours. Under favorable conditions, has plowed 9 inches deep and turned considerably more than 7 inches.

MODEL T25 SHAW DU-ALL PLOWING WITH NO. K7 PLOW
The Model T25 does a thorough job of plowing when equipped with the 7-inch No. K7 Moldboard Plow and No. TR22 Extension Traction Rims.

On low gear, will plow over 1 acre in 8 hours, and on high gear will plow over 1 2/3 acres in 8 hours. Will plow about 2/3 as much with 7" plow. ALL GEARS DROP THE DIRT—SEE BOX 2, PAGE 20.

MODEL T45 SHAW DU-ALL PLOWING WITH NO. K10 PLOW
The Model T45 does excellent plowing when equipped with either the 7-inch No. K7 or 10-inch No. K10 Moldboard Plows and No. TR22 Extension Traction Rims. Shown equipped with No. RG2 Reverse Gear Attachment which makes the tractor handle easily for plowing, as it will back up as well as go forward. The plow hitch now has a lever for adjusting depth plowed.
When the ground is packed, it can be loosened up nicely by running the SHAW DU-ALL equipped with Six No. 4183 Cultivator Teeth over it. By running on low gear, using tool extensions, more teeth can be used so as to take a wider swath.

PREPARING SEED BED WITH NO. 4183 CULTIVATOR TEETH

Drills or hills three rows from 11 inches to 18 inches apart. Fine for peas, beans, parsnips, radishes, lettuce, onions, carrots, turnips, etc. Much time is saved by following this seeder's rows with SHAW DU-ALL equipped with our Three Row Cultivator Attachment No. 3C or Three Row Spring Tooth Cultivator No. STD. Is regularly supplied for drilling only, but can supply hilling attachment at an extra charge.

EQUIPPED WITH NO. 152 3-ROW SEEDER

Regularly equipped for both hilling and drilling. Handles same seed as Seeder No. 152 (from peas to turnips). Seeder furnished with tractor hitch and also handles so it can be run separately from tractor when desired.

NO. 4D SINGLE ROW HILL AND DRILL SEEDER
CULTIVATING IN CLOSE QUARTERS

The SHAW DU-ALL is invaluable for cultivating in close quarters, for the independent tool control enables the tools to get up real close to the plants and the No. R62 Reverse Gear Attachment enables the tractor to be easily backed under its own power. Excellent for use in vineyards.

A GARDEN TO BE PROUD OF

A garden that is tended by a SHAW DU-ALL is bound to thrive better and to be more prolific.

REMEMBER—

SHAW DU-ALL
Plows, Harrows, Seeds, Cultivates, Mows, Rakes, Runs Belt Machinery, Etc.

CULTIVATING GRAPES

Intensive cultivation increases the grape yield many times. Cultivation is a pleasure when the SHAW DU-ALL is on the job.
NO. M5 AND N5 PLOWS, HILLING POTATOES

In this case the connecting arch is used to hold the tool holder plates the proper distance apart.

NO. PD8 POTATO DIGGER

The SHAW Jiffy Hitch (patent applied for), same as used for 7-inch and 10-inch plows, fits our potato digger illustrated to the right. The hitch is quickly changed from one to the other, therefore, you will need but one hitch. The potato digger is 8 inches wide at the bottom, and 1½ inches wide across the rear tips of the potato fingers. All models SHAW DU-ALL Garden Tractors will pull this potato digger.

CULTIVATING STRAWBERRIES WITH NO. 7D10 DISCS

These discs are 7 inches in diameter, having 5 discs on each side, cutting 10 inches on each side of row. Are very efficient for cultivating strawberries and similar plants for they stir up a dust mulch which helps to retain the moisture.
CULTIVATING CORN WITH THE DU-ALL

The SHAW DU-ALL Garden Tractor will straddle corn and other plants until they are quite tall, and by using Tool Extensions No. TE45 will cultivate clear across even when rows are wide apart. The boys enjoy cultivating with a SHAW DU-ALL and it pays to use it.

LOADING DU-ALL UNDER ITS OWN POWER

Makes it easy to move from one field to another where considerable distance apart. Take an hour off occasionally, take the SHAW DU-ALL around and sell on commission.

EFFICIENT CULTIVATION INCREASES PRODUCTION

The strawberry yield is bound to be increased when the SHAW DU-ALL is on the job. This means bigger profits.
Nurserymen and florists find the SHAW DU-ALL Garden Tractor a profitable investment in their work. The DU-ALL will cultivate up-real close to the smallest or the largest trees without injury to them.

Florists who use the DU-ALL for cultivating their flowers are sure to get higher prices for them.

The DU-ALL does not bite the leaves nor skin the trees like a horse does.

The center of gravity being low down on the DU-ALL Tractor prevents the machine from turning over even when running on grades, of considerable pitch.
MODEL T45 WITH NO. RA2 RIDING ATTACHMENT

The Riding Attachment is fully appreciated by the elderly and others who desire to ride. The machine is easily handled when the Riding Attachment is on and a thorough job of cultivating can be done.

GETTING READY FOR WORK

A six year old or a seventy year old can easily crank the SHAW DU-ALL. By the smile on this gentleman's face, operating the DU-ALL is a pleasure to him.

A PROFITABLE PASTIME

After office hours, working the garden with the DU-ALL is real recreation for both old and young.
Close-up view of Model T25 SHAW DU-ALL equipped with No. F20 20-inch Furrower and No. TR22 Extension Traction Rims. The 20-inch Furrowers have adjustable wings, a feature of real merit, and are fine for throwing ridges and hilling.

EQUIPPED WITH NO. F20 20-INCH FURROWER

THROWING UP RIDGES WITH NO. F20 20-INCH FURROWER

Another instance where the two speed gear and the No. TR22 Extension Traction Rims come in good.

ECONOMICAL GARDENING WITH A DU-ALL

The home gardener cannot afford to be without a SHAW DU-ALL. A few minutes' work with the DU-ALL mornings and evenings after regular working hours will supply the family table with fresh vegetables and will cut down the grocery bill.
Large beet and similar plants can be successfully cultivated when the SHAW DU-ALL is equipped with the No. VG2 Vine Guards, for they gently push the foliage aside and allow the cultivating tools to get up real close to the plants.

NO. 280 WICK OILER

Showing Sectional View of No. 280 Wick Oilier. The SHAW DU-ALL Garden Tractor has been refined by adding a number of features, among which are improved wick oilers which are used on the countershaft bearings. These oilers, together with the pump system of oiling in the engine base, enable the tractor to be run many hours with only one oiling. Unlike most farm machinery, minor details like these have not been overlooked in the SHAW DU-ALL Garden Tractor and even those who are not familiar with this class of machinery can operate the tractor very successfully and easily.

THE SHAW DU-ALL GARDEN TRACTOR IS THE TRACTOR OF A HUNDRED USES

It will not only plow, harrow, furrow, plant, cultivate, mow lawns, etc. but by means of the power take-off pulley it will run churns, washing machines, water pumps, cream separators, lathes, emery wheels, etc., etc.

LOCK WASHER

Another small part that really is a big item. We use high grade special steel Lock Washers many places on SHAW DU-ALL Garden Tractors so that it stays in proper adjustment.
AN IDEAL CONCRETE MIXER

When the SHAW DU-ALL is belted up to a concrete mixer, it certainly does a commendable job in supplying power for mixing the concrete and keeps several men busy taking care of what it mixes.

CULTIVATING CABBAGE

The No. S120-S121 Hoes are fine for cultivating cabbage when the plants are small. Then when the plants get larger the No. 7D or No. 7D10 Discs can be used.
MODEL T25 WITH NO. CB42 CUTTER BAR ATTACHMENT

This outfit does an excellent job mowing cane, clover, alfalfa and grasses of all kinds and cuts tall weeds. It hums right along through hay or tough weeds, cutting its three and one-half foot swath clean.

NO. ST3 3-ROW SPRING TOOTH CULTIVATOR

Fine for cultivating onions, spinach, etc. Can set teeth for cultivating one, two or three rows. We furnish a similar cultivator, No. ST1, for one row. This uses same style teeth as 3-Row Cultivator. Both are excellent for land that has trash or is infested with "quack" grass, as well as for shallow cultivating in general. In operation, the ground holds the teeth for an instant, then they spring forward, thus keeping up a constant quiver which tends to throw off trash they may come in contact with. The teeth are made of high grade spring steel, carefully tempered to stand hard service, and are fully guaranteed. Both of these Cultivator Attachments come complete and can be quickly attached and removed from any Model SHAW DU-ALL Garden Tractor.

The Three-Row Spring Tooth Cultivators are carried in stock with a range of adjustment for cultivating three rows 11 to 16 inches apart. (See page 19) Wider cultivators are made to order. See illustration to left for side and front view of a tooth.

RAKING HAY

Some are using the Spring Tooth Cultivator Attachment for raking hay and say it is very satisfactory. If much raking, use No. HR4 Hay Rake.
CUTS TALL GRASS AND WEEDS

CHICKENS ENJOY SHAW DU-ALL
The SHAW DU-ALL is excellent for stirring up scratchyards and is fully appreciated by poultrymen.

NO. RA2 RIDING ATTACHMENT EQUIPPED WITH BOX
Hauls real heavy loads. Convenient for hauling wood, rocks, feed, etc.

NO. RA2 RIDING ATTACHMENT
Fits all SHAW DU-ALL Garden Tractors. Model T25 SHAW DU-ALL handles the Riding Attachment nicely on light work, but for heavy work we recommend that the Model T45 be used. Is well liked by those who cannot stand continuous walking. Adds only two feet to length of tractor, and the machine turns very short.
SHAW DU-ALL GARDEN TRACTOR

THESE GEARS ARE RUGGED

We have used the present type for several years and, so far as we know, every one of them is still in service. We have had no calls for these gears for replacement.

TRACTION WHEEL AND BULL GEAR USED ON SHAW DU-ALLS

Note the two differential ratchets around the hub of the gear with springs to hold them in the notches of the ratchet wheel on the traction wheel. These ratchets make the machine easily handled and turned, even in close quarters.

These rims are easily attached or removed from the traction wheels, three bolts holding each rim. Besides doubling the width of the traction wheels, they add considerable to the pulling power of the tractor. Are recommended especially for deep plowing and any heavy work when running on low gear. Excellent in sandy soil. We also furnish No. SR22 Extension Smooth Rims, otherwise same as above. These are excellent for some work in sand, muck or fluffy soils. These, as well as the Traction Rims, are 3 inches wide.

NO. TR22 EXTENSION TRACTION RIMS

MODEL T25 EQUIPPED WITH NO. 3C 3-ROW CULTIVATOR

stock with widths adjustable from 10 inches to 20 inches. Wider widths can be made to order on short notice—prices on application.
TESTING DRAWBAR PULL OF SHAW DU-ALL

Model T25 SHAW DU-ALL running in low gear pulling a road drag. While we do not recommend the tractor for road dragging, this will give you an idea of the drawbar pull which is sufficient to pull a ton load on light cart or wagon under favorable conditions.

MODEL T25 SHAW DU-ALL GARDEN TRACTOR SHELLING CORN

Mr. N. R. Bickford, Oswego, Kansas, uses his SHAW DU-ALL Garden Tractor for shelling corn for his chickens, besides plowing, cultivating, etc. Mr. Bickford has made good raising white Leghorn chickens.
SHAW DU-ALL GARDEN TRACTOR

GRIPS CONTROL
RIGHT AND LEFT
CULTIVATING TOOLS
INDEPENDENTLY OF
EACH OTHER AND
INDEPENDENTLY OF
STEERING THE
TRACTOR.

Model T25 SHAW DU-ALL Garden Tractor with regular equipment consisting of, Six No. 4183 Cultivator Teeth, One Pair No. T200LR Tool Holder Plates, Two No. TE15 Tool Extensions, One Connecting Arch, One No. GW12 Gauge Wheel and One No. 301 Tool Kit. The Tool Kit and Gauge Wheel are removed to give a better view.

SPECIFICATIONS

HANDLES: Adjustable in height to suit man or boy; left handle is offset 8 inches (3 1/4 inches farther to the left than end of axle) to enable the operator to pass to the left of the row when the tractor straddles it.

SPEED: Has two speeds. On low gear, 1 1/2 to 1 1/2 miles per hour (44 feet to 132 feet per minute) is normal speed. On high gear, 1 3/4 to 2 1/2 miles per hour (110 feet to 220 feet per minute) is normal speed. Will run over 3 miles per hour on light work.

GASOLINE CONSUMPTION: Will run from 4 to 8 hours on one gallon of gasoline, according to the nature of the work and soil.

POWER: Rated conservatively at 1 H. P. On tests develops about 1 1/2 actual horse power.

DRAWBAR PULL: 3/4 H. P. Hauls a 1 ton load on SHAW Riding Attachment with box, under favorable conditions.

WIDTH: Over axle 24 inches. Over handles 25 inches. Over tool holder plates when in normal position 26 inches, minimum 20 inches, maximum 31 inches. Tractor will pass through a 25 inch doorway.

POWER TAKE OFF PULLEY: 5 1/2 inches diameter with 1 1/2 inch face, is furnished on each Model T25 Tractor Engine—is on cam shaft which runs at 275 R. P. M. which is 7/6 of normal engine speed.

DISTANCE BETWEEN TRACTION WHEELS: 14 inches between the rims of the wheels, the wheels have 3-inch face, making 20 inches from outside of wheels. Height of wheels, 26 inches over all.

CLEARANCE UNDER THE AXLE: 12 3/4 inches when the machine is on the lugs. (High Arch Models 21 inches. See Pages 34 and 35.)

For Additional Specifications see pages 20 and 21.
For Engine Specifications see Page 22.
MODEL T25 WITH TOOL EQUIPMENT NO. 21A

Tool Equipment No. 21A consists of special cultivator beams that take the place of the regular cultivator beams, 4 standards with clamps, and 4 cultivator steels 2¾ x 8 inches. Other size steels and shovels as well as many other types of horse tools shown on page 36 by plates No. HT1 and No. HT2 can be used instead of the steels shown above. Tool Equipment No. 22A is the same as No. 21A except that it has 6 standards, clamps and cultivator steels.

See illustration and description of Tool Control on page 27.

THIS LEVER ADJUSTS DEPTH OF PLOWING

MODEL T25 WITH 7-INCH NO. K7 PLOW AND EXTENSION TRACTION RIMS
WE RECOMMEND OUR K10 SHORT BEAM PLOW INSTEAD OF STYLE SHOWN ABOVE. SEE PAGE 39.

MODEL T25 SHAW DU-ALL GARDEN TRACTOR EQUIPPED WITH ADDITIONAL ENGINE NO. T251. THIS COMBINATION IS KNOWN AS ORDER NO. T252. SHOWN HERE EQUIPPED WITH 10-INCH MOLD-BOARD PLOW AND NO. TR22 EXTENSION TRACTION RIMS.

The extra engine can be attached to the Model T25 in a few minutes, making the tractor same as shown above. The extra engine adds 80 pounds weight and about doubles the drawbar pull. We supply No. W29 Handle Weights to offset the weight of the extra engine. They should be used when no implement such as the 10-Inch Plow or Riding Attachment No. RA2 is hitched on.

The Twin Engine Tractor fills the bill for those whose work is mostly of a light nature, but where there is some heavy work to do. However, where there is considerable heavy work or large acreage we recommend the Model T45 in preference to the Twin Tractor. SEE UNDER HEAD-ING, "CHOOSING THE PROPER TRACTOR." PAGE 1.

MEXICAN WOMEN OPERATE SHAW DU-ALL

Mexican women, as well as American women, find it a pleasure to operate the SHAW DU-ALL Garden Tractor.

CULTIVATING IN CANADA

Canadian gardeners and nurserymen, too, are using up-to-date SHAW DU-ALL Equipment. This illustration shows a Model T25 SHAW DU-ALL cultivating a berry patch and orchard in Canada. Many SHAW DU-ALL Garden Trac- tors are shipped to Canada every year.
HAS TWO SPEED GEARS

DU-ALL PLOWING IN AUSTRALIA

Mr. H. B. Beasley, 9 Patterson Street, Launceston, Australia, is more than pleased with his Model T25 SHAW DU-ALL for plowing. With the Model T25 equipped with the No. K7 Plow, Mr. Beasley plowed up his orchard which was partly overgrown with bracken ferns over 2 feet high and with good heavy roots, also grass and weeds, and had not been plowed for 8 years. He said the outfit plowed 7 inches deep and 8 inches wide, ferns and all.

COVERING ACRES WITH MODEL T25 SHAW DU-ALLS EQUIPPED WITH NO. ST3 3-ROW CULTIVATORS

The Model T25 SHAW DU-ALL Garden Tractor equipped with the No. ST3 3-Row Spring Tooth Cultivator is a splendid machine for cultivating onions and similar plants. When the plants are real small the tractor can be run in low gear, if desired, and as they increase in size the tractor can be run along in high gear at a merry clip of 220 feet per minute, enabling the operator to cultivate five acres in eight hours. The No. ST3 3-Row Cultivator can be quickly attached or removed when desired to substitute other cultivating tools—it can be attached or removed in two minutes.
MODEL T25 SHAW DU-A

1—CONTROL GRIPS are shaped to fit hands. A simple move of the operator’s wrist turns the control rods which move the cultivating tools to the right or left at the will of the operator. This is a patented feature that permits close cultivating.

5—CLUTCH LEVER starts and stops tractor. Within easy reach, giving operator absolute control of tractor at all times.

6—HANDELS are angle steel. Tool control rods set in them.

11—OILERS, w type; one filling ricates jackshaft bearings several days.

12—THROTTLE LEVER controls engine speed without removing hand from handle grip.

13—HOUSING for throttle control wire is flexible, permits raising and lowering handles.

14—HANDLES, adjusted for height in a jiffy. Loosen nut and adjust handles, then tighten nut.

15—DEPTH CULTIVATED is regulated while tractor is moving, by pulling cord and bringing shovels to desired depth by raising or lowering tractor handles then release cord.

16—GAUGE WHEEL, caster type, trails perfectly. Regulates depth cultivated (see above). Can be quickly removed.

17—CULTIVATING TEETH No. 3183. Six of these are included as regular equipment with each Garden Tractor.

18—TOOL EXTENSIONS separate the cultivating tools, allowing free passage, and soils usually hard to handle have no terrors for the SHAW DU-ALL Garden Tractor.

19—TOOL HOLDER PLATES have special designed slots, three in front and three in rear side, which provide a quick method of attaching and adjusting various types of cultivating and other tillage tools. Tool plates can be removed in a jiffy by loosening set screws and slipping them off the beams.

20—FRAME MEMBERS are in weight, strong, and give mounting engine, axle, jack, cultivating beams, or lawn mower attachments, etc.

21—DIFFERENTIAL RATIO power from the bull gears. Two ratchetwheels drive each wheel closed by housings on tractor to make turning easy. A ratchet is trouble proof.

STEERING: Tractor is steered same as an ordinary wheelbarrow or wheel hoe but the operator does not carry any weight.

LENGTH: Over all 62 inches. (With Twin Engines 15 inches longer.)

HEIGHT: Over all 35 inches.
MODEL T25 SHAW DU-ALL GARDEN TRACTOR

1. CONTROL GRIPS are shaped to fit hands. A simple move of the operator's wrist turns the control rods which move the cultivating tools to the right or left at the will of the operator. This is a patented feature that permits close cultivating.

2. GEARS are placed under rim of traction wheel and what dirt falls on them drops off, as tops of gears rotate from each other. Teeth are large and gears are properly proportioned to make them strong and durable.

3. BLOWER HOUSING encloses flywheel which contains magneto and blower fan, protecting them. It guides the air current to the hottest part of the cylinder, cooling the engine perfectly.

4. GASOLINE TANK is made of heavy gauge special tinned steel, located away from exahust for safety. Gasoline passes through two strainers; one in top of the shut-off valve, indicated by the right hand arrow, and the other located at entrance to carburetor.

5. CLUTCH LEVER starts and stops tractor. Within easy reach, giving operator absolute control of tractor at all times.

6. HANDLES are angle steel. Tool control rods set in them.

7. TRACTION WHEEL LUGS, 2" high and 2" wide. Placed alternately across to prevent spinning and digging in, and lengthwise to prevent side-skiiding. The wheels are 26" over all and roll over uneven ground easily.

8. CARBURETOR, float feed, spray jet type. Arranged for air cleaner for dusty fields. Very efficient.

9. SHAW CLUTCH has internal expanding band; is provided with oiling system and two sprockets (high and low speed). Simple and easy to adjust.

10. CHAIN, high grade, motorcycle type, carefully tempered; lasts for years. Provision made to take up wear. (See No. 25 below)

11. OILERS, wick type: one filling lubricates jackshaft bearings several days.

12. THROTTLE LEVER controls engine speed without removing hand from handle grip.

13. HOUSING for throttle control wire in flexible, permits raising and lowering handles.

14. HANDLES, adjusted for height in a jiffy. Loosen nut and adjust handles, then tighten nut.

15. DEPTH CULTIVATED is regulated while tractor is moving, by pulling cord and bringing auger to desired depth by raising or lowering tractor handles then release cord.

16. GAUGE WHEEL, caster type, trails perfectly. Regulates depth cultivated (see above). Can be quickly removed.

17. CULTIVATING TEETH NO. 4183. Six of these are included as regular equipment with each Garden Tractor.

18. TOOL EXTENSIONS separate the cultivating tools, allowing free passage, and soils usually hold to handle have no terrors for the SHAW DU-ALL Garden Tractor.

19. TOOL HOLDER PLATES have special designed slots; three in front and three in rear side, which provide a quick method of attaching and adjusting various types of cultivating and other tillage tools. Tool plates can be removed in a jiffy by loosening set screws and slipping them off the beams.

20. FRAME MEMBERS are channel steel, light in weight, strong, and give rigid support for operators' engine, axle, jackshaft, handles, cultivating beams, or lawn mower and cutter bar attachments, etc.

21. DIFFERENTIAL KATCHETS transmit the power from the bull gears to the traction wheels. Two ratchets drive each wheel and they are enclosed by housings on traction wheels. These make turning easy. A rugged construction that is trouble proof.

22. HOLEs for mounting cutter bar attachment, etc.

23. LUGS to which extension rings may be bolted for deep plowing or heavy work.

24. CULTIVATOR BEAMS, special tough steel, are hitched far ahead of axle so that steering of tractor automatically leads the cultivating tools where wanted; but as described under No. 1, the tools, if desired, can be controlled independently of steering the tractor.

25. ENGINE is mounted on two steel angle cross members which are in turn bolted to the main frame through slots which permit engine to be moved forward to tighten drive chain by means of an adjusting screw.

STEERING: Tractor is steered same as an ordinary wheelbarrow or wheel hoe but the operator does not carry any weight.

LENGTH: Over all 64 inches. (With Twin Engines 65 inches longer.)

HEIGHT: Over all 35 inches.
ALL GARDEN TRACTOR

3—BLOWER HOUSING encloses flywheel which contains magneto and blower fan, protecting them. It guides the air current to the hottest part of the cylinder, cooling the engine perfectly.

4—GASOLINE TANK is made of heavy gauge special tinned steel, located away from exhaust for safety. Gasoline passes through two strainers; one in top of the shut-off valve, indicated by the right hand arrow, and the other located at entrance to carburetor.

5—FUEL TANK, 8 gallon. Located below windscreen and battery. Arranged for air cleaning for dusty fields. Very efficient.

6—WHEEL LUGS, 2". Placed alternately to prevent wheels from spinning and digginwise to prevent wheels are 26" for uneven ground standing and system speed.

12—HOLES for mounting cutter bar attachment, etc.

8—CARBURETOR, float reed, spray jet type. Arranged for air cleaner for dusty fields.

7—WICK, lubber bearings.

17—CHAIN, high grade, motorcycle type, carefully tempered; lasts for years. Provision made to take up wear. (See No. 25 below)

9—ENGINE is mounted on two steel angle cross members which are in turn bolted to the main frame through slots which permit engine to be moved forward to tighten drive chain by means of an adjusting screw.

13—CULTIVATOR BEAMS, special tough steel, are hitched far ahead of axle so that steering of tractor automatically leads the cultivating tools where wanted; but as described under No. 1, the tools, if desired, can be controlled independently of steering the tractor.

14—ENGINE TRANSMISSION is made of alloy steel and bronze gear. The gears are extremely rugged and efficient from the standpoint of noise, steady speed, and freedom from wear. See page 6.

15—CENTRAL TILT is made of special alloy steel and Bronze. This design permits all channels to be tilted to the desired position and bolted in place. See page 6.

16—THE TILT is made of strong and durable steel, and gives all channels the utmost freedom, at the same time keeping them precisely level. See page 6.

17—WRENCHES are channel steel, light weight, give rigid support for jackshaft, handles, cultivator and cutter bar.

18—AUGERS transmit the power from the traction wheels, rear wheel and they are on traction wheels. These rugged construction that

FINISH: Red enamel trimmed in black.
WEIGHT: 500 pounds with tillage tools, wrenches, etc.

See Engine Specifications Page 22.
SHAW DU-ALL GARDEN TRACTOR

ENGINES.—Both the PB and Type Q Engines are built for us with features especially adapted for use on the SHAW DU-ALL Garden Tractors. They require but little attention. Simply fill the reservoir with cylinder oil and the gasoline tank and they will run for many hours without attention.

PB ENGINE SPECIFICATIONS

POWER.—Rated conservatively at 1 H. P., but on tests develops considerably more.

TYPE.—Single Cylinder, Four cycle, Vertical.

SPEED.—Normal 2200 R. P. M., but runs from 800 to 3000 R. P. M. Controlled by throttle operating on carburetor. Throttle lever is moved by operator without removing his hand from tractor control grip.

LUBRICATION.—Splash and pump feed. Automatically maintained oil level. Oil supply can be plainly seen at all times.

CARBURETOR.—Float feed, spray jet type. Arranged for air cleaner for dusty fields. Very efficient.

COOLING.—By strong air current guided to hot part of cylinder from blower on flywheel. Nothing to wear out. Broad fins on cylinder.

STARTING.—Engine is started by hand crank on the camshaft, easily turned. A 6 year old child can start it.

CRANK SHAFT.—Chrome nickel steel forging first rough machined then hardened and accurately GROUND. Counter balanced and timing gear cut integral with crank shaft.

CAM SHAFT AND GEAR.—Chrome nickel steel drop forging first rough machined then heat treated and accurately GROUND. Teeth of cam gear are cut after heat treating and grinding to insure accuracy.

CONNECTING ROD.—Open hearth drop forged steel, hardened and GROUND.

INTAKE VALVE.—Open hearth steel, GROUND to perfect seat.

EXHAUST VALVE.—Steel stem with cast iron head and accurately ground and lapped in. No warping with this type of construction.

POWER TAKE OFF PULLEY.—5 1/2 in. diameter, 1 1/2 in. Face, 275 R. P. M. at normal engine speed.

WEIGHT.—Forty eight pounds.

For Tractor Specifications See Pages 16, 20 and 21.
SAVES MONEY, TIME AND WORK

TYPE Q BRIGGS & STRATTON ENGINE USED ON MODEL T45
SHAW DU-ALL GARDEN TRACTOR

SPECIFICATIONS

POWER — 1½ H. P. at 1800 R. P. M. (Conservative Rating). On tests develops 2 1-3 actual horse power.

TYPE — Single cylinder — 4 cycle—vertical—air cooled—bore 2¾” stroke 2¾”.

SPEED RANGE — From 750 R. P. M. to 2400 R. P. M.

POWER TAKE OFF — Direct from crankshaft. Arranged for pulley, sprocket, or gear held on by nut and driven by two dowels in hub of flywheel.

IGNITION — High tension magneto, built in flywheel, moisture and dust proof. Standard motorcycle spark plug.

LUBRICATION — Splash Type. Oil level maintained in splash trough by pump actuated from cam shaft. Oil supply determined easily.

CARBURETOR — Float spray jet type.

COOLING — By strong air current from blowers on both flywheels directed to cylinder and head by blower housings. Extra large fins on cylinder and head.

GOVERNOR — Speed control by pneumatic governor operated by air current created by flywheel blower. Adjustable.

STARTING — Rope pull starter pulley on magneto flywheel. One pull starts engine.

CRANK SHAFT — Drop forging. Heavy counter balances reduce vibration. Bearings ground accurately.

CAMs & GEAR — Gear and cams one piece construction. Cams ground. Very quiet cam action.

CONNECTING ROD — Drop forging. Split bushings on crank shaft. Large bronze bushings on wrist pin.

BEARINGS — Bronze back-babbitt lined.

PISTON — Two ring—especially light.

PISTON PIN — Tubular type, hardened and accurately ground.

CYLINDER HEAD — Held in place by 6 heavy cap screws, cooled by large fins.

VALVES — Mechanically operated — Exhaust and Intake Valves. Stems enclosed and lubricated by oil spray from crank case.

BREATHER — Eliminates oil spray and is designed to prevent possibility of dust entering crank case.

FUEL CAPACITY — 1½ gal. gas tank. Half day’s supply of fuel at full load.

FINISH — Black Enamel.

WEIGHT — 98 lbs. complete.

POWER TAKE OFF PULLEY — 3 inches in diameter with 2¾” inch face, is furnished on each Model T45 Tractor Engine—is on left end of crankshaft, normal speed 1800 R. P. M.

For Tractor Specifications see Pages 24 and 25.
The Model T45 has the same general construction as the Model T25 (see pages 20 and 21) except that it is 4 inches wider and weighs 50 pounds more. The Model T45 has about double the power of the Model T25 and is more practical for heavier work and larger acreages.

The governor on the engine of the Model T45 makes it excellent for belt work.
HANDLES: Adjustable in height to suit man or boy; left handle is offset 8 inches to enable operator to pass to left of row when tractor straddles it.

STEERING: Steered same as an ordinary wheel hoe.

LENGTH: Over all 62 inches.

HEIGHT: Over all 33 inches.

WIDTH: Over axle 28 inches. Over handles 29 inches. Over tool holder plates, when in normal position 26 inches, minimum 20 inches, maximum 31 inches. Tractor will pass through a 29 inch doorway.

WIDTH BETWEEN WHEELS: 18 inches between rims of wheels, and 24 inches from outside of wheels. Width may be increased.

HEIGHT OF TRACTION WHEELS: 26 inches over all.

TOOL CONTROL: One pair of handle grips shift the cultivating tools and steer the tractor independently. See pages 20 and 27.

SPEED: On low gear, normal (held by governor) 90 feet per minute, but may be varied from 50 to 200 feet per minute. On high gear, normal (held by governor) 180 feet per minute, but may be varied from 80 to 275 feet per minute.

GASOLINE CONSUMPTION: One gallon in 3 to 7 hours, according to nature of work and soil.

DRAWBAR PULL: 1 1/4 H. P. This pulls 1 1/2 ton load on light cart or wagon, under favorable conditions. Pulls single section of a standard two-horse harrow.

POWER TAKE OFF PULLEY: 3 inch diameter with 2 1/4 inch face, on left end of crankshaft. Runs 1800 R. P. M. at normal engine speed.

FINISH: Red enamel trimmed in black.

WEIGHT: 350 pounds with tillage tools, wrenches, etc. See Engine Specifications on Page 23.
MODEL T45 WITH TOOL EQUIPMENT

NO. 22A

Tool Equipment No. 22A consists of special cultivator beams that take the place of the regular cultivator beams, 6 standards with clamps, and 6 cultivator steels 2 1/4 x 8 inches. It is the same as No. 21A except that it has two more standards, clamps and cultivator steels.

The gauge wheel is removed to give a better view. Other cultivator steels can be used, such as those illustrated by plates No. HT1 and No. HT2 on page 36.

See illustrations and description of Tool Control, page 27.

THIS LEVER REGULATES DEPTH OF PLOWING

MODEL T45 WITH 10-INCH PLOW—BUILT SO ALL GEARS DROP THE DIRT, SEE BOX 2, PAGE 20

This makes ideal plowing equipment. With the No. RG2 Reverse Gear Attachment, as shown above, the machine is easily handled in close quarters for it will back under its own power.
SIMPLE ACTION—EASY TO CONTROL

OPERATOR HAS ABSOLUTE CONTROL OF CULTIVATING TOOLS AND STEERING AND SPEED OF TRACTOR WITHOUT REMOVING HANDS FROM GRIPS

This shows the hand control grips and cultivating teeth in normal position. Note that the cultivating tool holders can be held at desired distance apart by the connecting arch. There is a series of holes for changing this spacing.

This shows the hand control grips turned with the lower end to the right which moves the cultivating tools to the right, while illustration to the right has them turned to the left. This enables rows with zig-zag hills to be cultivated with ease.

Any plant that traction wheels pass astride of can be safely cultivated by moving cultivating tools to right. Handles are offset to left so when tractor runs astride row, operator walks to left of same row. Connecting arch can be moved and tools controlled independently of each other.

These pictures show the original SHAW DU-ALL Garden Tractor with the efficient tool control. The same idea is embodied in the present model DU-ALL Tractor, as you will note from the illustrations on pages 15, 19, 26 and 28, which has the same action. This tool control is our own invention and is manufactured solely by us. It has been perfected for economy and hard service and is protected by United States and Foreign patents owned by us.
This is a very popular machine for mowing on public premises, such as around courthouses, public libraries, parks, etc. This is the SELF-ADJUSTING WAY—the greatest and only real improvement in lawn mower construction in recent years. Note there are NO SCREWS to adjust, or work loose and annoy the user. This patented SELF-ADJUSTING device always keeps the bearings in perfect adjustment, never requiring care or attention. Absolutely guaranteed. Enclosed in dust-proof case, fool-proof SELF-SHARPENING.

The SHAW Patented Jiffy Hitch enables the operator to turn in very close quarters and run around trees close up to them. With this hitch the machine can be turned on a quarter turn very easily or it can be turned half around, thus enabling it to cut swaths side by side. By using this hitch the machine can be run in very close places.

This shows a 30-inch Crestlawn Mower (No. E30) attached to the Model T25 SHAW DU-ALL Garden Tractor by means of the SHAW Patented Jiffy Hitch (No. E33). The lawn mower shown by unbroken lines (indicated by arrow "A") is in the proper position for making a quarter turn as in mowing around a land; while the lawn mower shown by broken lines (indicated by arrow "B") shows the position of the lawn mower when making a half turn as in running back and forth on side of a land, cutting swaths side by side.

The SHAW Patented Jiffy Hitch is regul-
larly furnished under Order No. E33 for 30-inch lawn mowers. The brackets (LM3 and LM4) on the rear ends of the V shape steel bar (LM12) can be moved forward until they are the proper distances apart for any lawn mower you wish to use, and the rear ends of the V bar can project back through the brackets (LM3 and LM4)—or ends can be cut off to suit the mower. The tubular coupling (LM11) that leads the mower may also be cut off to suit the mower, if our No. E30 is not used. The mower swings entirely under the tubular coupling and clears the tractor wheels. The machine turns to the right as well as to the left. The SHAW Patented Jiffy Hitch is so designed that in turning, any obstruction that the mower wheel will clear will easily clear the front of the hitch whether using wide or narrow lawn mowers.

The mower and Jiffy Hitch may be removed from the tractor in one minute by removing the two spring cotters (LM18) from the coupling tube (LM11) and moving the tractor back. Then the anchor bracket (LM1) is lifted off the tractor axle.
The cultivating tools and tool holder plates are removed. The Model T25C Power Mower has no cultivator beams (shown by arrows AA) and no cranks (shown by arrows BB). However, provision is made so that the cultivating beams, tool holder plates and SHAW patent tool control can easily be attached to the Power Mower at any time.

The tool holder plates need not be removed from the Model T25 SHAW DU-ALL, but the cultivating tools should be removed when mowing, and it is quicker to loosen the set screws and slip the tool holders off than it is to remove the cultivating tools from the tool holders. However, the cultivator beams, complete with tool holders and tools, can be slipped out in two minutes by loosening two nuts and taking out two spring cutters. The cutter bar and pitman rod can be detached in five minutes by removing three spring cutters. Can be reattached about as quickly.

The cutter bar can be raised up and fastened in a vertical position so that it will pass through narrow gateways, doorways, etc. With the cutter bar up, the machine will pass through an opening 29 inches wide when the cutter bar is down for cutting, the width over all is 5½ feet. The knife will operate and cut well when the outer end of the cutter bar is considerably above or below the level of the tractor, so as to facilitate mowing on uneven ground. There is a jaw clutch for throwing the cutter bar knife out of gear. This enables the operator to stop the knife at will when moving about from place to place. The tractor may be run with the knife out of gear and with the cutter bar in mowing position or vertical, as desired.
This machine is easily operated and has ample strength and the proper weight to handle satisfactorily the hardest work which you have a right to expect of it. It works well and lasts for years.

The knife of the cutter bar, being driven from the engine of the tractor, makes it excellent for use on wet ground where the ordinary hay mowers or binder will not cut on account of the wheels sliding. The machine, being light, requires but little traction power to drive it even on soft ground. Turning is very easy. A child can turn the machine while doing real heavy cutting; being easily turned to the right or left, makes it excellent for cutting around orchard trees, posts, etc. The machine may be run directly around the body and under branches of the tree, thus enabling the operator to cut up real close to the tree. The height of cutting can be regulated by the gauge wheel in front.

We recommend the use of the Mower Wheel Bands No. B3 over the wheels when running over lawns, especially where the ground is soft. These bands are nearly smooth and will not damage the ground.

**CUTS 'EM ALL—SHORT OR TALL**

**REVERSE GEAR CAN BE USED WITH CUTTER BAR ATTACHMENT BY ORDERING AUTOMATIC CHAIN IDLER NO. A113 EXTRA**

**TILTING—Loosen bolt to tilt cutter bar up or down to suit conditions.**
HAULING HAY WITH THE MODEL T25 SHAW DU-ALL

The SHAW DU-ALL Garden Tractor comes in handy during haying time, for it will cut the hay with the No. CB42 Cutter Bar Attachment, rake it with the No. HR4 Hay Rake and haul it where you want it.

NO. CB42 CUTTER BAR ATTACHMENT CUTTING OATS

The SHAW DU-ALL and No. CB42 Cutter Bar Attachment do excellent work cutting oats and get up in the narrow quarters where a large mowing machine cannot get.
SHAW DU-ALL STOOD THE TEST

Engineering Department of the State University of Nebraska testing drawbar pull of the Model T45 SHAW DU-ALL by dynamometer car. Both the Model T25 and Model T45 Tractors were thoroughly tested out in a very rigid and exacting manner to comply with the Nebraska State Laws before being offered for sale in Nebraska. Both tractors stood all of the tests successfully.
We advise the use of the Air Cleaner No. DI, indicated by the red arrow, when working where it is dusty, for it greatly lengthens the life of the engine. It slips over the air intake of the carburetor and is held by a spring catch which snaps in place.

The Order No. HA2 SHAW DU-ALL High Arch Garden Tractor has the same engine and general construction as the Model T25 SHAW DU-ALL except that the High Arch Model has a clearance of 21 inches under the arch and is quickly adjustable in width from 21 inches to 46 inches between the inside edges of tires on the traction wheels. This is a patent feature found only in the SHAW DU-ALL Garden Tractor.

The HA2 handles the Cutter Bar Attachment and all other attachments that the regular Model T25 handles. This machine is well liked by those who have exceptionally tall plants to cultivate and have rows of various widths.

Simplicity, accessibility and durability are ever in mind in designing and building all SHAW DU-ALL Garden Tractors.

ORDER NO. HA2 SHAW DU-ALL

No. GW12 Gauge Wheel and No. 301 Tool Kit (Illustrated on Page 16) Included with Each Tractor.
The Model T45 does very efficient plowing. It handles both the 7-inch and 10-inch plows nicely. Shown here pulling the 10-inch No. K10 Plow. The No. TR22 Extension Traction Rims should be used for deep plowing. The No. RG2 Reverse Gear Attachment comes in handy for plowing, especially among roots, rocks, etc.

ORDER NO. T45-HA HIGH ARCH SHAW DU-ALL AND WIDENING SETS

The T45-HA has the same general construction as the Model T45 (see pages 23, 24 and 25), except that it is 4 inches wider, being 30 inches from outside of wheels, and has a clearance of 21 inches under the arch.

The width of this and other Models SHAW DU-ALL Garden Tractors can be increased by using the No. HA6 Adapters and the No. HA4 Widening Sets listed on our combined price list and order blank.
The horse tools shown on these plates can be used in connection with the SHAW DU-ALL Garden Tractors by means of the special cultivator beams, clamps and standards quoted on our order blank.

PLATE HT NO. 1

For years the extra quality steel in Planet Jr. Tools has won for them a high reputation wherever used. Further successful experimenting with the hardening of steel and the designing and addition of new shapes to the line—demanded by the development of better cultivation—enables us to offer steels of the highest grade, designed to do an unusual variety of work, and capable of suitting the most exacting persons or conditions that can be found. Planet Jr. Tools are especially designed for use in heavy soils under unusual conditions, and they will work in the most difficult soils in a satisfactory manner.

PLANE HT NO. 2

For Prices of Tools see Order Blank

Planet Jr. Tools are by far the most satisfactory on the market. Try them and they will convince you by satisfactory work and long wear that they are the most economical in the long run.
The Model T45 SHAW DU-ALL handles the No. 1B612 and the No. 2B812 Disc Cultivator Gangs very easily. The Model T25 handles the No. 2B312 when the soil is in favorable condition. The discs are all 12 inches high except one on each side of the row which is 11 inches high. Each gang has a patented adjustment for any angle and also a leveling adjustment. One pair of the No. 1B612 Gangs cuts 24 inches and one pair of the No. 2B812 Gangs cuts 36 inches, and they throw the soil several inches besides. The gangs can be spread between row cultivation by a bar for connecting the two gangs. The gangs are hitched to the tractor so that the SHAW Patented Tool Control steers them. Can be set to cultivate shallow or deep and do a wonderful job in turning the soil. Excellent in trashy ground and for hilling.

The Model T25 SHAW DU-ALL handles the No. 1B612 Disc Cultivator Gangs nicely and will do real deep discing when running in high gear. It does the heaviest deep discing nicely in low gear.
The No. G6 ACME Harrow is 3 feet wide and is handled nicely by the Model T25 SHAW DU-ALL Garden Tractor. We have a larger size ACME Harrow, No. 8T, with 8 coulters instead of 6, which is 4 feet wide. We recommend the No. 8T Harrow for use with the Model T45 SHAW DU-ALL Garden Tractor.

**DU-ALL AND NO. G6 ACME HARROW**

**READY TO PREPARE THE SEED BED**

Preparing a seed bed is a particular job, and a very important one. A very common method is to complete the plowing, disc in same direction as plowed, ACME Harrow across and seed.

**WELL PREPARED SEED BED—ACME HARROWS BRING INCREASED CROPS**

The thinking farmers know the "Why" as well as the "How" of tillage. They must know something of the growth habits of crop plants. They know the ACME Harrow develops a suitable home for the root system of the plant.
Tool Equipment Quickly Changed—By loosening two set screws, the tool holder plates are quickly removed with the tools attached to them. By having an extra pair of tool holder plates as shown below with cultivator shovels, permits a very quick change of tools. However, the tools can be quickly removed from the tool holder plates and other tools attached.

TOOL EQUIPMENT NO. 2

Right and Left Tool Holder Plates with Three 4-inch Cultivator Shovels No. 1696 on each Holder, with Two Tool Extensions No. TE45 used to Extend Shovels to Front and Side. Note that the tool extensions can be used to extend the tools to the side as well as to the front or rear.

Model T25 pulls Tool Equipments Nos. 2 and 3 nicely on low gear, and under favorable conditions pulls them on high gear. Model T45 pulls them nicely on both high and low gear.

TOOL EQUIPMENT NO. 3

Right and Left Tool Holder Plates with One 4-Inch Cultivator Shovel No. 1696 at each End and One 2-Inch Cultivator Shovel 1691 in the Center, with Two Tool Extensions No. TE45 used to Extend Each of the End Shovels to the Front and Rear.

PIN BREAK ATTACHMENT NO P2

If you have rocks or other obstructions in your soil, you will need one of these Pin Break Attachments for each cultivator shovel or tool on the SHAW DU-ALL Garden Tractor. Our Pin Break Attachments are very simple in construction, sturdily built and efficient.

MOLDBOARD PLOW NO. K7 (7 inch) AND NO. K10 (10 inch), WITH COULTER

These plows have steel beams and are properly designed so that when attached to a SHAW DU-ALL Garden Tractor the right hand wheel with extension traction rim runs in the furrow and steers the machine so it will run along without an operator. Attached or detached in one minute. Comes complete with SHAW Patent Jiffy Hitch. Lever regulates depth plowed. See plow attachment to tractor, pages 2, 17, 26 and 35.
SHAW DU-ALL GARDEN TRACTOR

TOOLS FOR SHAW DU-ALL GARDEN TRACTORS

We recommend the use of these celebrated Planet Jr. Brand of Tools with the SHAW DU-ALL Garden Tractors. These tools are made from fine steel, properly shaped and oil tempered and they do excellent work.

HOES NO. S120-S121
Furnished in pairs, right and left. Two sizes, 8-inch and 6-inch hoes. These hoes are well liked for weeding, etc. They are excellent for cultivating small plants because they are so shaped that they shield the plants, preventing them from being covered. If hoes wanted for peat land, mention in order.

DISCS—NO. 7D (5-Inch Cut)
These 7-inch Discs are specially designed for heavy duty tractor use, having large bearing surfaces and plenty of clearance under axle. Furnished in pairs.

DISCS NO. 7D10 (10-Inch Cut)
Same as the No. 7D Discs except have 5 discs on each side. Furnished in pairs. Excellent for cultivating as well as preparing seedbed.

CULTIVATOR TEETH NO. 4183
These teeth are flared, being about 2 inches wide. A very desirable tool for shallow and medium cultivating. Six usually used.

NARROW CULTIVATOR TEETH NO. 2775
These work particularly well in hard soil. ¾ inch wide. 6 or 8 usually used.

NO. H3 SPIKE TOOTH HARROW
This harrow is heavily built, is 3½ feet wide with 3 tooth bars. It is excellent for breaking the clods in preparing the seedbed. Comes complete with hitch and any SHAW DU-ALL Garden Tractor will pull it. We recommend this for those who have considerable harrowing to do. For those who wish a larger harrow for the Model 715, we can furnish one 4½ feet wide, which has more tooth bars.
WILL DO YOUR WORK

DOUBLE FLOW NO. M5-N5
Excellent for hilling, furrowing, covering etc., 3 inches wide at bottom. Come in pairs right and left. May be used separately.

ONION HARVESTER—NO. 80H
Furnished in 8-inch size, for onions and onion sets. Makes a splendid weeder.

RAKES—NO. 3R (3-Tooth); NO. 5R (5-Tooth); NO. 7R (7-Tooth).
Furnished in pairs. Valuable for fining and leveling the surface and for shallow cultivation.

THREE-PRONG CULTIVATOR
TEETH—NO. S42-S43
Good for fine, deep work, 5½ inches wide. Furnished in pairs.

CULTIVATOR SHOVELS WITH US
STANDARD
NO. 1696 (4-Inch); NO. 1697 (2-Inch); NO. 4129 (1¾-Inch)
Splendid for cultivating, running seed furrows, etc. We recommend using four of the 4-inch or six of the narrower sizes.

FIVE-PRONG CULTIVATING ATTACHMENT—NO. S94
Does fine work, shallow or deep, 8 inches wide. Furnished in pairs.

LANDSIDE PLOW—NO. R8
Has long heavy standard allowing ample room for furrows to turn over; 4 inches wide.

DOUBLE MOLDBOARD PLOW—NO. U
It can be set to furrow wide or narrow, or to hill much or little. Width at widest, 14 inches; narrowest, 9 inches; 6 inches wide at bottom.

OTHER TOOLS WILL BE FOUND ON PRICE LIST AN
ORDER BLANK—ALSO ON PAGES 12, 17 AND 26

GUARANTEE
We agree to make good by repair or replacement within one year from date of invoice, any defect in material or workmanship of any SHAW DU-ALL Garden Tractor, or tools, provided the defective part is delivered to us, transportation prepaid. This guarantee is your positive assurance of satisfaction.

SHAW MANUFACTURING COMPANY
**SHAW MANUFACTURING CO.**  
**GALESBURG, KANSAS**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Order No.</th>
<th>Description</th>
<th>Price Extention</th>
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</thead>
<tbody>
<tr>
<td>T25</td>
<td></td>
<td>SHAW DU-ALL Garden Tractor with Two Speed Gear, with 6 No. 4133 Cultivator Teeth, See Pages 16, 20 and 21, each</td>
<td>$225.00</td>
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<tr>
<td>T15</td>
<td></td>
<td>SHAW DU-ALL Garden Tractor, same as above except with Single Speed Gear, each</td>
<td>200.00</td>
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<td>T25C</td>
<td></td>
<td>SHAW Power Mower with Two Speed Gear (Same as Garden Tractor but without Cultivator and with Plain Handles without Cultivator Control), Complete with Cutter Bar Attachment with One Knife, See Pages 12, 30, 31 and 32, each</td>
<td>297.00</td>
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<tr>
<td>T45</td>
<td></td>
<td>SHAW DU-ALL Garden Tractor with Two Speed Gear, with 6 No. 4133 Cultivator Teeth, you, H. A. 8 and 24 and 35, each</td>
<td>290.00</td>
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<tr>
<td>T45C</td>
<td></td>
<td>SHAW Power Mower with Two Speed Gear (Same as Model T54 Tractor but without Cultivator Beams and with Plain Handles without Cultivator Control) Complete with Cutter Bar Attachment with One Knife, each</td>
<td>362.00</td>
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<td>T45HA</td>
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<td>Model T45 SHAW DU-ALL High Arm Garden Tractor with Two Speed Gear, same as Model H4A and can be widened the same, with 6 No. 4133 Cultivator Teeth, See Page 35, each</td>
<td>323.33</td>
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<tr>
<td>H4A</td>
<td></td>
<td>SHAW DU-ALL High Arm Garden Tractor, with 6 No. 4133 Cultivator Teeth, width 24 inches between tration wheels. (Width may be increased to 30 inches by using Adapters H4A, then in multiples of 4 inches up to 46 inches by using Widening Sets HA4 listed below), See Page 54, each</td>
<td>270.00</td>
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<tr>
<td>H4A6</td>
<td></td>
<td>Adapters and Long Axle for increasing the width of any Model Tractor 6 inches between wheels, per set</td>
<td>7.50</td>
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<td>H4A4</td>
<td></td>
<td>Widening Set, consisting of Spacing Collars for increasing the width of any Model Tractor 4 inches (see H4A for increasing first six inches and for long axle—will each 10 inches long enough with H4A Widening Set ordered with H4A Adapters). Order a set of H4A for each 4 inches that you wish to widen the tractor after widening 6 inches with the No. H4A Adapters, per set</td>
<td>3.75</td>
</tr>
<tr>
<td>T232</td>
<td></td>
<td>SHAW DU-ALL Twin Garden Tractor, same as T235 except has two engines, with 6 No. 4133 Cultivator Teeth, See Page 18, each</td>
<td>325.00</td>
</tr>
<tr>
<td>W09</td>
<td></td>
<td>Weights for use on Twin Tractor handles, counterbalance weight of extra engine when no engine is in use, is hinged, length 6 inches, per pair</td>
<td>4.00</td>
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<tr>
<td>T251</td>
<td></td>
<td>Briggs &amp; Stratton, Air-Cooled Engine, complete with Sub-Frame, Bolts and Connections all ready to attach to the frame of the T25 Tractor to convert it to the T252 Twin Tractor. Order a complete set of 251 for each engine</td>
<td>190.00</td>
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<tr>
<td>R02</td>
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<td>Reverse Gear Attachment, fits Models T25, T15, T232 and T45, state Model of Tractor, See Page 23, each</td>
<td>35.00</td>
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<tr>
<td>CB42</td>
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<td>Cutter Bar Attachment, 42 in. cut, complete with belts, clamps and one knife, for all Models SHAW DU-ALL Garden Tractors, state model of tractor, see Pages 12, 30, 31 and 32, each</td>
<td>50.00</td>
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<tr>
<td>A113</td>
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<td>Automatic Idler for Drive Chain, should be ordered with No. CB42 Cutter Bar Attachment, on Tractor with Reverse Gear, each</td>
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<tr>
<td>K42</td>
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<td>Extra Knife, 42 Inch, for SHAW Cutter Bar Attachment, each</td>
<td>3.50</td>
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<tr>
<td>H4A4</td>
<td></td>
<td>Hay Rake, for use in connection with DU-ALL Tractor with Cutter Bar, each</td>
<td>25.00</td>
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<tr>
<td>R42H</td>
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<td>High Lift Attachment with Jiffy Hitch for any SHAW Tractor, state model tractor, See Page 18, each</td>
<td>30.00</td>
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<tr>
<td>D1</td>
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<td>Air Cleaner for Carburetor (for use in dusty fields), each</td>
<td>3.50</td>
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<tr>
<td>C6</td>
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<td>ACM-3 Hay Harrow, Width 2 feet, complete with Jiffy Hitch, See Page 36, each</td>
<td>12.00</td>
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<td>ST</td>
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<td>ACM-4 Hay Harrow, Width 3 feet, complete with Jiffy Hitch, See Page 36, each</td>
<td>12.00</td>
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<td>10T</td>
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<td>ACM-3 Hay Harrow, Width 5 feet, complete with Jiffy Hitch, See Page 36, each</td>
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<td>H5</td>
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<td>Spike Tooth Harrow, Width 3¾ feet, complete with Jiffy Hitch, See Page 40, each</td>
<td>15.00</td>
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<td>Spike Tooth Harrow, Width 6 feet, complete with Jiffy Hitch, See Page 40, each</td>
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<td>36</td>
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<td>Planet Jr. Single Row Seeder Attachment, complete with Jiffy Hitch (it drills only), each</td>
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<td>4D</td>
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<td>Planet Jr. Single Row Seeder with Jiffy Hitch (drills or hills), See Page 5, each</td>
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<td>Planet Jr. Three Row Seeder, complete with Jiffy Hitch (drills, hiller costs extra), See Page 5, each</td>
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<td>155</td>
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<td>Planet Jr. Three Row Seeder, complete with Jiffy Hitch (drills, hiller costs extra), See Page 5, each</td>
<td>56.00</td>
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<td>ST3</td>
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<td>Spring Tooth Cultivator, adjustable for 3 or 2 rows, fits all SHAW Tractors, See Page 12, each</td>
<td>20.00</td>
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**Amount Carried From Other Side of This Order Form**

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<td>16.00</td>
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TOOLS FOR THE SHAW DU-ALL GARDEN TRACTORS

We recommend the use of these celebrated Planet Jr, Brand of Tools with the SHAW DU-ALL Garden Tractors. These tools are made from fine steel, properly shaped and oil tempered and they do excellent work.

STI—Spring Tooth Cultivator Attachment (3 teeth), fits all SHAW Tractors, See Page 12, each $12.50 10.50

PDS—Potato Digger complete with Jiffy Hitch (uses same hitch as K10 and K7 Plows), See Page 6, each 27.50 22.00

PDS—Potato Digger without Jiffy Hitch, See Page 5, each 15.00 12.00

VG2—Vine and Bush Guards for protecting plants when plowing and cultivating, See Page 16, per pair 12.50 10.00

BE—Tine Bands, Smooth, to clamp on tractor wheels when mowing, etc., See Page 31, per pair. 7.50 6.00

E30—30° Crestlaw Mower with Smooth Bands and Jiffy Hitch Adapter, See Pages 28 and 29, each 72.50 58.00

E3J—Jiffy Hitch Adapter, fits any Lawn Mower, for any SHAW Tractor, steer as easily, each 8.00 6.40

4183—Wide Cultivator Teeth (6 are included with Tractor), See Page 40, each 48.00 36.00

TE45—Tool extensions, extend tillage tools 4½ inches to the sides or to rear (excellent rear extension for use in objecting places). Include one pair with Garden Tractor, See Page 36, per pair 1.60 1.28

S120—Tines, 8 in., right and left (for weeding), See Page 40, per pair 2.50 2.00

S122—Side Horns 8 in. long, when used on left (for weeding), See Page 40, each 1.60 1.28

K10—Moldboard Plow with Extra Share, 10 in. bottom, complete with Jiffy Hitch, See Page 39, each 20.00 16.00

WK7—Weed Rod for K7 or K10 Moldboard Plows, each 0.50 0.40

KCL—Coulter with Adjustable Clamp for K7 or K10 Plow, See Page 39, each 4.50 3.60

TR22—Extension Traction Rings, 3 inches wide, complete with bolts for attaching, (recommend using with K7 and K10 Plows), See Page 14, per pair 10.00 8.00

SR22—Extension Smooth Rings, 3 inches wide, complete with bolts for attaching, See Page 14, per pair 10.00 8.00

EC—Extended Starting Crank, for use when extension rims are on tractor, (not used on T45 or T45HA), each 2.00 1.60

7D—Discs, 7 in. (6-inch cut, 3 discs on each side), See Page 40, per pair 6.75 5.40

7D—Discs, 7 in. (6-inch cut, 3 discs on each side), See Page 40, per pair 6.75 5.40

R8—Landslide Plow, 4 in., (may be used single or in gangs of 2 or 4) See Page 41, each 4.50 3.60

U8—Double Moulder Plow, adjustable, See Page 41, each 2.25 1.80

V5—Five Tooth Rake, Special Steel, (used in pairs) See Page 41, per pair 3.25 2.60

V5—Five Tooth Rake, Special Steel, (used in pairs) See Page 41, per pair 3.25 2.60

R7—Seven Tooth Rake, Special Steel, (used in pairs) See Page 41, each 4.50 3.60

W249—Cultivator Teeth 6 or 8 usually used) See Page 40, each 4.00 3.20

M5—Double Plow (for furrowing, covering, hilling, etc.) See Page 41, per pair 1.50 1.20

S42—S43—Three Froged Cultivator Teeth, right and left, See Page 40, per pair 2.00 1.60

1697—Planet Jr. 2 in. Cultivator Teeth, with US Standard, See Page 41, each 1.15 0.92

1697—Planet Jr. 2 in. Cultivator Teeth, with US Standard, See Page 41, each 1.15 0.92

F2—Pin Break Attachment, prevents breaking tillage tools when striking rocks or other obstructions, we advise ordering six if ground has obstructions), See Page 39, each 1.20 0.96

S61—Pin Break Attachment, for Stone Cultivators, See Page 39, each 0.50 0.40

S01—Onion Harvester, 8 in. (also is a splendid weeder), See Page 41, each 1.75 1.40

2—Tool Equipment, See Page 39, each 1.50 1.20

3—Tool Equipment, See Page 39, each 1.50 1.20

T2001R—Tool Holder Plate, Left and Right, per pair 2.50 2.00

18B12—12-Inch Disc Cultivator Ganges (5 discs on a side), complete with Hitch, See Page 37, per pair 22.50 17.00

2BS12—12-Inch Disc Cultivator Ganges (4 discs on a side), complete with Hitch, See Page 37, per pair 24.00 19.20

21A—Tool Equipment with Special Beams, 4 Standards, Clamps and Steels, 2½x 8½, See Page 17, complete 22.00 16.00

22A—Tool Equipment with Special Beams, 6 Standards, Clamps and Steels, 2½x8½, See Page 17, complete 24.00 19.20

715-716—Beams for all Models DU-ALLS adapting them for horse type tools, (see plates HY. No. 1 and HY No. 2 on page 36 of Catalog), complete with hinge castings, anchor and control connecting rod, per pair 4.00 3.20

1978A—Straight Standards, each 0.50 0.40

5484—Clamps, each 1.00 0.80

THE FOLLOWING TOOLS CANNOT BE USED ON REGULAR TOOL HOLDER PLATES BUT ARE FOR USE IN CONNECTION WITH TOOL EQUIPMENTS NO. 21A AND NO. 22A

1156—14x28 Cultivator Steels, See Page 36, each 25.00 20.00

205—14x28 Cultivator Steels, See Page 36, each 25.00 20.00

205—21½x16 Cultivator Steels, See Page 36, each 25.00 20.00

2389—3x8 Cultivator Steels, See Page 36, each 30.00 24.00

2389—3x8 Cultivator Steels, See Page 36, each 30.00 24.00

3539—7" Shovel, See Page 36, each 7.50 6.00

3542—8" Shovel, See Page 36, each 9.00 7.20

436—6" Hoe Steel, with 4178 Standard, See Page 36, per pair 3.50 2.80

2188—7" Hoe Steel, with 4178 Standard, See Page 36, per pair 3.50 2.80

1165—6" Hoe Steel and Bolt with 576-577 Connecting Pieces, See Page 36, per pair 2.85 2.28

1165—6" Hoe Steel and Bolt with 576-577 Connecting Pieces, See Page 36, per pair 2.85 2.28

3580—12" Turning Shovel with 576-577 Connecting Pieces, See Page 36, per pair 2.20 1.76

3584—5" Turning Shovel with 576-577 Connecting Pieces, See Page 36, per pair 2.00 1.60

THE FOLLOWING TOOLS ARE USED ON REGULAR TOOL HOLDER PLATES BY MEANS OF SPECIAL STANDARDS

1167—7" Hillsers, without Standard, See Page 36, per pair 1.05 0.82

486—7" Hillsers, without Standard, See Page 36, per pair 2.00 1.60

2248—Irrigation Steel, See Page 36, each 1.50 1.20

105—6" Improved Flat Sweep without Standard, each 0.75 0.60

1497—12" Improved Flat Sweep without Standard, each 1.25 1.00

1495—13" Improved Flat Sweep without Standard, each 1.25 1.00

1497—13" Improved Flat Sweep without Standard, each 1.25 1.00

1497—13" Improved Flat Sweep without Standard, each 1.25 1.00

U9—Standard for above Sweeps and Irrigation Steels, (should be ordered with Sweeps and Steels), each 0.80 0.64

516—12" Furrower and Bolt, without Standard, See Page 36, each 1.25 1.00

520—10" Furrower and Bolt, without Standard, See Page 36, each 1.25 1.00

520—10" Furrower and Bolt, without Standard, See Page 36, each 1.25 1.00

51—Standard for above Furrowers, (should be ordered with Furrowers), each 0.80 0.64