SHAW DU-ALL TRACTORS

See our Two Year Guarantee on Page 63

We invite you to study the following pages illustrating and describing the different Models of SHAW DU-ALL Tractors. For many years the SHAW DU-ALL has been a standard of comparison in the Garden or Small Farm Tractor line. In the SHAW DU-ALL line of tractors, you have a wide range to choose from in both walking and riding types. SHAW DU-ALL Walking Type of Tractors are furnished in 2 to 5 H.P. sizes. The 5 H.P. is furnished with either single or twin cylinder engine. For the walking type of tractors we have perfected the Deluxe Riding Equipment which converts any Model Walking Type of SHAW DU-ALL into a riding tractor, and it operates equally well with plowing, cultivating, and other tool equipment. It turns short, pivoting on one wheel, when equipped with power turn brakes, and does good plowing and good close cultivating.

The new MASTER SHAW DU-ALL Tractor is the result of 36 years continuous experience in building gasoline engines, tractors, and other farm equipment. It has all the stamina, durability, convenience and economy of operation which you naturally associate with the name of SHAW! It has more, too—a new attractiveness, a new standard of powerful, trouble-free performance, a new measure of value. During the last fourteen years we have built and shipped a great number of riding tractors for use in the United States and abroad. The MASTER SHAW DU-ALL made its first appearance in 1934, and has been brought to a high degree of perfection. Now the economy of mass production makes it possible for this new MASTER SHAW DU-ALL to be produced in several sizes at an extremely low price. The MASTER SHAW DU-ALL is available with 3, 4, 5, 6, and 8 H.P. sizes to meet all requirements. The 5 H.P. is furnished with either single or twin cylinder engine. The MASTER SHAW DU-ALL was designed especially for commercial growers and general work on small farms, but also does numerous other jobs. Its short turning and ease in operation, quick change from plowing, harrowing and cultivating, to mowing, harrowing, and other drawing, and in wheel, makes it a popular tractor. Although used extensively on truck farms and other farms of small acreages, it is also used for the lighter work on large farms. Even the smallest tractor, the 3 H.P. MASTER SHAW DU-ALL, pulls an 8-inch plow easily, or a 10-inch plow under favorable conditions. 3, 4, and 5 H.P. pull about the same loads as the Walking Type SHAW DU-ALL; the 6 and 8 H.P. will pull more, travel faster and do more work in the same time.

Both the SHAW DU-ALL and MASTER SHAW DU-ALL Tractors can be supplied with pneumatic tires, commonly known as air tires. While the first cost of the air tires is more, usually the saving will soon pay for them in the extra work, for they conserve power and fuel—especially power. Therefore, a greater load can be pulled when the tractor is equipped with air tires and more work can be done in the same time. We supply tires only of reliable makes, such as Firestone, Goodyear, and Goodrich. Page 41 shows 5 H.P. Twin on test in 2nd gear pulling 7 ft disc.

Fifteen years ago we made tractors with two speed gears; since our three speeds followed and became most popular. However, the six speed SHAW Tractors are becoming popular, when air tires equipped and the operator rides.

SHAW MANUFACTURING COMPANY

GALESBURG, KANSAS

5812 Magnolia Ave., Chicago, Illinois.
130 West 42 St., New York City, N. Y.
Figure 1

Figure No. 1: Illustrates Model 2DS Twin Cylinder SHAW DU-ALL Tractor with 6,000 lb. Air Tires (185 inches overall diameter), 3x12 inch Air Tires Gauge Wheel and the regular cultivating equipment. The power of this tractor engine is rated conservatively and for those who prefer a twin cylinder five horsepower tractor this model has no equal. See specifications of engine below.

Cultivating equipment illustrated on tractor in Figure No. 6 is optional at no extra cost if wanted instead of the regular cultivating equipment shown here.

You can do what hundreds of others, everywhere, with all types of places, have done with a SHAW DU-ALL. You can reduce your expenses, boost your profits and have more leisure for the things you want to do.

The operating cost of a Shaw is amazingly low—only about 3½ cents per hour. Compare that with the high cost of several "hands" who couldn't do as much work ... and with the expense of keeping a team of horses. You can put in, cultivate and harvest a crop at lower cost with a DU-ALL. That means bigger profits.

Think of how a Shaw will speed up your work and lighten the load of back-breaking toil caused by old-fashioned methods. When you order your Shaw DU-ALL, you'll get more than one of the finest, sturdiest, most powerful tractors made. You'll also get a larger income from your place, a pardon from the heaviest part of your work, and more freedom to enjoy life.

Order your Shaw DU-ALL now. The low factory price and low operating and repair expense make the Shaw easy to own. Fill out and mail your order today.

GENERAL SPECIFICATIONS OF STOVER TWIN CYLINDER 5 H.P. ENGINE

BORE: 2-1/2".
STROKE: 2-3/4".
PISTON DISPLACEMENT: 27 Cu. inches.
RECOMMENDED SPEED: 2000 to 2500 R.P.M.
TRANSMISSION: Vertical, 6-speed, twin cylinder, L-head, air cooled.
IGNITION: Wise High Tension Magneto with Impulse Coupling.
SPARK PLUGS: 4 mm., 2 used.
FLYWHEEL: 8-1/2" diameter, blows powerful current of air for cooling.
COOLING: Vertical, water jacket, with submerged pump.
CARBURETOR: Specially designed automatic type.
GOVERNOR: Horizontal enclosed centrifugal automatically lubricated, with speed adjustment within easy reach of operator.
CRANKSHAFT BEARINGS: 2 New Departure Ball Bearings.
CAMSHAFT: Drop forged. Cams forged integral, hardened and ground.
CAMSHAFT BEARINGS: New Departure Ball Bearings.
THERMO GREAT: Vertical cut.
CRANKSHAFT: Dia. 1-3/16", drop forged high carbon steel.

Figure 2

CONNECTING ROD: Aluminum alloy.
PISTON: Aluminum alloy, ground to size.
Piston rings: (4) Three, plain compression, one oil control.
Piston pin: (Diameter: 3/8".)
Compression Ratio: Dia. 1-1/8 in., Length 1-3/4 in.
VALVES: Alloy steel, inserts on exhaust valves.
VALVE TAPPETS: Mushroom type.
CYLINDER AND CRANKCASE: Close-grained grey iron.
CRANKCASE: Removable, aluminum alloy, with bored air passages.
AIR CLEANER: Efficient, oil bath type.
FUEL TANK: 5 gal. capacity.
GASOLINE FILTER: Bowl type, easily cleaned.
OIL RESERVOIR: 3 pint capacity.
OIL PUMP: Vertical plunger type.
FUEL: Gasoline.
FUEL SYSTEM: Gravity feed from tank to carburetor.
COOLING: Powerful blower flywheel forces strong air current through housing and ventilated cylinder head, large cooling fins on cylinder and head.
FINISH: Heat resisting black enamel.
Illustration to the right shows the 5 H. P. Model 2DS Twin Cylinder SHAW DU-ALL Tractor equipped with 6.00x22 inch Air Tires, and the No. DRAG DeLuxe Riding Equipment equipped with 4.00x8 inch Air Tires. The hood, grille, and fenders shown on this tractor can be furnished on this and any Model SHAW DU-ALL Tractor at extra charge, as per our price list. We now include extensions for the front of the fenders, which make the fenders and front wheels serve as vine and bush guards.

The twin engine, like all other engines used on SHAW DU-ALL Tractors, is provided with a governor which holds the engine at the desired speed under varying load conditions, thereby, preventing the engine from stalling under a sudden increase in load, such as when plowing across a ridge or a hard spot of ground, and preventing the engine from racing when the clutch is released or tool lifted. On all SHAW DU-ALL Tractors the engine speed can quickly be changed by means of a manually operated throttle lever located directly in front of the right-hand control grip (see Arrow on Page 4). This throttle lever simply changes the tension of the governor spring and the governor holds the engine at a speed determined by the tension of said governor spring. This is only one of the many features of merit that can best be realized and appreciated by the operator using the tractor.

FLOWING WITH 5 H. P. TWIN MODEL 2DS SHAW DU-ALL TRACTOR AND 10-INCH NO. K10 MOLDBOARD PLOW

The scene to right was taken in action, as will be noted from the blurred tractor wheel. The Model 2DS SHAW DU-ALL has an abundance of power to pull the 10-Inch No. K10 Moldboard Plow at a fast pace, often faster than many persons want to walk. Of course, it can be throttle down; or, the No. DRAG DeLuxe Riding Equipment can be attached so that the operator can ride.

5 H. P. 2DS Twin Cylinder SHAW DU-ALL Tractor (below) with 6.00x22 inch Air Tires, W60 Weights, DRAG DeLUXE Riding Equipment with 4.00x8 (16" outside diameter) Air Tires and No. 32C Cultivating Equipment with adjustable width bars extended 11 inches on each side of tractor to a total of 54" cultivating three rows at a time. When wanted for multiple row cultivation, the No. 32C Cultivating Equipment should have the lateral control for entire cultivating equipment, optional at small extra cost. Excellent for thorough, speedy, economical work commercial truck growers, etc.

NEW DELUXE RIDING ATTACHMENT

A boy ten years of age of average size can handle any model 2 to 5 H. P. SHAW DU-ALL Tractor nicely, especially when equipped with the DELUXE Riding Equipment, Order No. DRAG. It works not only with the plow but equally as well when cultivating, mowing, etc. 4.00 x 8 inch 116 inch outside diameter Air Tires are supplied on DRAG equipment at small extra charge. The wheels for 4.00 x 8 inch Air Tires are equipped with Ball Bearings.
GENERAL SPECIFICATIONS OF BRIGGS & STRATTON ENGINES. FIGURE 9 SHOWS 4 H.P. OTHER MODELS HAVE THE SAME GENERAL CONSTRUCTION

POWER: Dynamometer tests prove that Briggs & Stratton Engines used on SHAW DU-ALL Tractors develop more actual mechanical horse-power than their ratings claim.


SPEED: About 1800 to 2200 R.P.M. normal. May be varied at will of operator from 750 to 2600 R.P.M. or faster for high compression motors.

TYPE: Single cylinder, detachable "L". Head, air-cooled, 4-cycle.

STARTING: Rope starter—our option, crank starter.

IGNITION: High tension moisture-proof flywheel magneto. Easy starting under all conditions. Std. 18 M.M. Vertical Spark Plug.

LUBRICATION: Plunger pump and splash system. Positive lubrication to all parts from a plunger pump operated from cam. No additional outside parts to oil.

CARBURETOR: Float feed adjustable carburetor insuring quick starting and uniform running.

COOLING: By string air current from extra large blower flywheel directed to the cylinder and cylinder head through blower housing. Extra large fins on cylinder and head to insure ample cooling.

FLYWHEEL: Carefully balanced to eliminate vibration.

GOVERNOR: Centrifugal type, adjustable, fully enclosed, operating in oil, automatically controls desired speed accurately.

BEARINGS: S.A.E. babbitt lined—4 and 5 H.P. have ball bearings on power take-off side.

CAMS AND CAM GEAR: One piece, accurately ground, rugged construction.


VALVES: Alloy steel, mechanically operated, completely enclosed, running in oil, insuring long life.

CONNECTING ROD: Alloy aluminum, large split bearing on crank pin, adjustable for wear; large bearing on wrist pin.

PISTON: Aluminum alloy, with two compression rings and one oil control ring.

AIR CLEANER: Standard equipment.

FUEL TANK: 2 H.P. and 3 H.P. Model HD3, 4 quart capacity; 3, 4, and 5 H.P. 5 quart capacity. Special tank with two compartments may be had at small extra cost—gasoline is used for starting and warming up the engine, then it is turned off and the kerosene turned on.

OIL SUPPLY: 2 H.P. and 3 H.P. Model HD3, 3 pint capacity; 3, 4, and 5 H.P. 5 pint capacity.

FINISH: Heat resisting black enamel.

POWER TAKE OFF PULLEY: 2 H.P. and 3 H.P. Model HD3, approximately 5-1/2 inches diameter with 3-inch face; 3, 4 and 5 H.P., approximately 6 inches diameter with 3-inch face. Is designed so as to fit both crank shaft and transmission shaft.

Further Particulars on Engines on Request.

FAMOUS 4-CYCLE BRIGGS-STRATTON AIR-COOLED ENGINE

Figure 9
A PRACTICAL RIDING TRACTOR

Model D5 SHAW DU-ALL (below) equipped with 5 H.P. Briggs-Stratton engine, De Luxe Riding Equipment No. DRAS, with 4.00 x 8 inch Air Tires and special 10-inch plow equipment. Tractor tires 6.00x22 inch 135” outside diameter. Comfortable seat adjustable to height of operator and convenient adjustable foot rests. This illustration shows the sturdy construction of the riding equipment. DRAS equipment in Figures 9 and 16 shows light weight axle and drawbar, however, heavy axle and drawbar as illustrated in Figure 10 are regular equipment.

Referring to Figure 10 showing the No. DRAS De Luxe Riding Equipment. The front end of the drawbar “A” is connected by a ball and socket joint to the hitch “B”, and the radius rod “C” is also connected with a ball in front to hitch “B”. Lever “D” raises and lowers the rear end of the tractor frame and the front end of the De Luxe drawbar, thus raising and lowering the plow or other ground working tools, regulating the depth plowed or cultivated. The steering rod “E” also connects to the hitch “B” and the steering arm “F” which is also connected by the steering rod “G” to the right-hand steering arm “H”. Steering is simple. For short turning, a slight pull on the right-hand control grip “I” sets the power turn brake on the right side and the tractor starts turning and automatically turns the rear wheels as shown in Figure 16 on Page 13, thus turning the tractor to the right. To turn to the left, pull the left control grip “J”. This action turns tractor short—can be pivoted on one traction wheel—very small space is required for turning.

The turning radius is 5 feet when the wheelbase is set at 52 inches (wheelbase adjustable from 48 inches to 64 inches). For ordinary steering, such as following a row or driving the tractor nearly straight, a slight side pressure on the control grips “I” and “J” steers the tractor without using the power turn brakes. This steering is an exclusive SHAW feature. The power turn brakes can also be used for stopping, or in going down grades.

5 H.P. MODEL D5 SHAW DU-ALL, FIGURE 12, WITH NO. RA2 RIDING ATTACHMENT, CULTIVATING LIMA BEANS WITH NO. 2368 2 INCH X 8 INCH CULTIVATOR STEELS

It is easy to do good work with the SHAW DU-ALL. The SHAW Patented Tool Control permits even the smallest plants to be closely cultivated without injury to them. Accurate steering of the tractor enables close work with ease.

The Shaw DU-ALL and Master Shaw DU-ALL are the world’s finest walking type tractors and small riding tractors. Their outstanding features such as short turning, independent tool control and ease of handling adapt them to the smallest garden as well as to large acreage.

5 H.P. MODEL D5 DU-ALL WITH 7.50 x 18 INCH AIR TIRES, FLOWING

The Tractor figure 13 is shown equipped with the No. CW80 80-Pound Weight. While the DU-ALL will do good plowing under favorable conditions without additional weight it is quite often necessary to use weight either on the traction wheels or on the front of the tractor as illustrated.

The 5 H.P. SHAW DU-ALL pulls our No. SP12, a 12-inch plow, nicely in high gear in some soils under favorable conditions. If soil is hard to work use a 10-inch plow. Weight comes with...
5 H.P. MODEL DS SHAW DU-ALL WITH DUAL TIRES AND SPECIAL CULTIVATING EQUIPMENT BELOW

This equipment was built for cultivating the Federal Government's shelter belt trees. This is used only for cultivating and has a special gear ratio, giving 1 1/2 mile per hour on low gear and up to 18 miles per hour on high gear. This equipment and Dual wheels may be had on any 4 and 5 H. P. SHAW DU-ALL. Price on request.

Figure 14
5 H. P. MODEL DS SHAW DU-ALL WITH 7.50 X 18 INCH TIRES, 3 SPEED GEAR, EQUIPPED WITH 12-INCH NO. SP12 MOLDBOARD FLOW AND NO. W60 CIRCULAR WEIGHTS, WHICH ARE REGULAR EQUIPMENT

The 5 H.P. DU-ALL is of the same rugged construction as all SHAW DU-ALL Garden Tractors. It will do all of the work that the 4 H. P. DU-ALL does but, of course, will do it faster. The 5 H.P. DU-ALL is excellent for larger acres/where there is considerable mouldboard plowing. Illustration above shows one Circular Weight No. W60 in front, counterbalancing the plow. The other Weight is on the left wheel. Weight 60 pounds each. Also we supply W40A Weights, 40 pounds each or 80 pounds per pair. For real heavy work, the No. W40A or W60 weights may be used on the rear and the No. CW80 Weight in front. (See Figure 15).

3 H. P. MODEL HD3 SHAW DU-ALL

Pictured below with DRAE DE LUXE Riding equipment equipped with 4.00 x 8 (16" outside diameter) Air Tires and No. 32C Cultivating Equipment. No. 32C Cultivating Equipment is optional at no extra charge instead of regular cultivating equipment shown here in Fig. 17. One steel on each side, next to row being cultivated, is controlled laterally by tractor handle control grips which also control power turn. This centralization of controls simplifies operation and is an exclusive SHAW DU-ALL feature, patented. Lever for controlling depth of cultivation is conveniently located on DRAE DE LUXE Riding Equipment by operator's seat. For small extra cost, entire No. 32C Cultivating Equipment can be equipped for lateral control. Also, can be supplied with extra length tool bars, and extra standards and steels at small additional cost.

Figure 15
3 H. P. MODEL DS SHAW DU-ALL TRACTOR

Picture above with 6.00 x 22 (135 inch outside diameter) Air Tires and DRAE DE LUXE Riding Equipment No. DRAE with 4.00x8 inch (16" outside diameter) Air Tires. Wheels of riding equipment steer automatically when tractor is steered either manually (by side pressure on control grips) when running down rows or by power turn (operated by pulling back on control grip) when turning short. Positive steering linkage to tractor assures steady, easy steering. This steering is an exclusive Shaw feature. Turns short and down the adjacent row. The wheelbase is adjustable from 48 to 64 inches and the entire machine turns in a 2 foot radius when the wheelbase is set at 52 inches. Besides for power turning the brakes come in handy on hills, as well as for stopping the tractor, especially when equipped with 6 speeds which gives a speed up to 15 miles per hour.

Figure 16
Features of the SHAW DU-ALL TRACTOR

1. DUAL CONTROL permits shifting right and left cultivating gangs independently. Also is used to operate power turn. Grips may be turned up as illustrated or down.

2. TOOL BOX made of durable steel in ample size for all necessary tools which are regular equipment.

3. DEPTH CONTROL permits adjustment of gauge wheel to provide for any depth cultivation. Gauge wheel also used to hold tools out of ground when going to and from work.

4. HANDLE ADJUSTMENT provides for one-minute adjustment of handles to accommodate any operator.

5. CLUTCH LEVER ratcheted for positive control of the V-belt sheave clutch under all conditions. Within easy reach of operator. Simply push forward to tighten V-belt for running and pull back to stop. A simple, efficient, trouble-proof clutch.


7. CULTIVATOR STEELS Number 2368, 2 x 8 inches. Adjustable. One set of 6 steels is included as regular equipment with each tractor.

8. BELT HOUSING completely encloses V-belt and pulleys, insuring smooth and efficient action at all times. Excludes dirt.

9. BRAKE DRUMS and independent brakes operate the positive-acting Power Turn which enables you to pivot the DU-ALL on either wheel. Brake Drums are 7 1/2" diameter and 1 1/4" wide. The brake bands are lined with Raybestos brand of woven asbestos which last for years.

10. CULTIVATOR BEAMS of patented improved balanced design attached by jiffy hitch are easily detached; follow tractor and are provided with independent control.

11. MUFFLER of Standard baffle type silences engine exhaust.

12. AIR CLEANER keeps sand and grit out of engine mechanism and conditions air for carburetor. This is standard equipment.

13. FORWARD HITCH with properly spaced holes for attaching lawn mower, snow plow and other pusher type of implements.

14. AIR TIRES of improved design, made by one of America's largest manufacturers, provide added speed, traction, and utmost efficiency.

15. GEAR SHIFT LEVER for changing forward speed or reversing tractor by shifting gears. Extension for gear shift lever is supplied when riding attachment or riding discs are ordered. Gives three speeds forward and one reverse. Six speeds forward and two reverse available at small additional charge. The six gear ratios make a "Super Speed" SHAW Tractor which runs 15 miles or more per hour in highest gear.

16. WOOD PINS in standards break when shovels strike firm rock, root, etc. Adjustable to change angle of cultivator steels. Wood break pin easily renewed.

DEVELOP MORE THAN RATED HORSEPOWER

Engines used on all SHAW Tractors, both walking and riding tractors, are given dyna-meter tests which prove actual horsepower to be considerably more than we rate them. NOTE—One actual horsepower (mechanical horsepower) lifts 33,000 lbs. one foot in one minute.
SPECIFICATIONS OF SHAW DU-ALL ALL PURPOSE TRACTORS

HANDLES: Adjustable in height to suit man or boy; left handle is offset to enable operator to pass to left of row when tractor straddles it.

STEERING: Steered when walking and making on slight turns same as an ordinary wheel hoe, but the shorter turns are made with power turn, pulling left handle turns left, right handle turns right. Tools are steered independently. See under TOOL CONTROL below.

WIDTH: Power Turn Model adjustable from approximately 17 inches to 30 inches between rims of traction wheels. Maximum distance between tires slightly less on Air Tire Models, depending on tire size ordered.

LENGTH: Over all, approximately 76 inches.

HEIGHT: Over engine, Low Wheel Models approximately 36 inches—Hy-Wheel Models approximately 42 inches.

HEIGHT OF TRACTION WHEELS—Hy-Wheel Models approximately 32 inches over rims, 38 inches over “pyramid” shape lugs, and 35 inches over 6.00x22 Inch Air Tires; Low Wheel Models approximately 27 inches over all.

AXLE: Alloy Steel 1-3/8” diameter and 34” long.

CLEARGANCE UNDER AXLE: Hy-Wheel Models 16 inches when the machine is equipped with 6.00x22 inch Air Tires which are 35 inch diameter.

TOOL CONTROL: The same pair of handle grips used to steer the tractor and operate the power turn is also used to shift the cultivating gangs independently of each other by simply moving the handle grips sideways.

SPEED: Variable; 2, 3, and 4 H. P. Tractors, about ¼ to 4 miles per hour; 5 H. P. Engine, about 1½ to more than 4 miles per hour. Six speeds giving the tractor from 1/8 up to 15 miles per hour may be hand on 3, 4 and 5 H. P. tractors at small additional charge.

GASOLINE CONSUMPTION: 2 H. P. Engines, one gallon in 4 to 8 hours; 3 and 4 H. P. Engines, one gallon in 3 to 7 hours; 5 H. P. Engine, one gallon in 2½ to 6 hours, according to the nature of the work and the soil.


FINISH: Regular, red and black, our option. Green and Black.

WEIGHT OF GERAR SHIFT TRACTORS, NET: 2 H. P. Model D 2and 3 H. P. Model HD3, approximately 450 pounds; 3 H. P. Model D3, approximately 500 pounds; 4 H. P. Model D4, approximately 580 pounds; 5 H. P. Model D5, Single Cylinder Tractor, approximately 600 pounds; 5 H. P. Model 2D5, Twin Cylinder Tractor, approximately 625 pounds. When equipped with wheel weights add their wt. to the above figures.

The Single Speed SHAW DU-ALL Garden Tractors are the same as above, except that they are a few pounds lighter. All Models have a V-Belt drive which serves as a very efficient clutch. The V-Belt is very durable, being made from rubber, specially prepared to withstand the effects of compression, tension and stretch without fatigue. The V-Belt is reinforced with highest quality fabric and cord, properly placed about the neutral axis to enable it to carry the load and resist wear and bending effects; the rubber, fabric and cord being vulcanized into one solid mass. Pulleys are extra large in diameter which greatly lengthens life of belt which we guarantee for two years.
SHAW DU-ALL SAVES TIME, MONEY AND LABOR

All SHAW DU-ALLS are equipped with a reliable, tight tension, magneto which eliminates ignition troubles—no batteries to become weak when tractor is in middle of an important job.

Figure 21

4 H. P. MODEL D4 HY-WHEEL 3 SPEED GEAR DU-ALL WITH AIR TIRES, WITH 6 NO. 2368 2 INCH x 8 INCH CULTIVATOR STEELS WHICH ARE REGULAR EQUIPMENT

FIGURE 22 BELOW SHOWS 4 H. P. MODEL D4 SHAW DU-ALL CULTIVATING CORN

When the SHAW DU-ALL is on the job, it is not necessary to coax the boys to do the cultivating, for work is turned into play with the SHAW DU-ALL and it enables quicker and better cultivating with less effort on the part of the operator. 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 can not only enjoy the benefits of better living conditions, but increase his earning power as well. The mechanism of the SHAW DU-ALL is so simple that a child can operate it.

Figure 22

DISCING CORN
WITH 4 H. P. SHAW DU-ALL AND NO. 16612 12-INCH DISC CULTIVATOR GANGS

Discing corn helps keep the weeds down, and insures a good, clean field. When the corn becomes too tall to run the tractor astride the plants, it can be run between the rows.

Figure 23

FIGURE 24 BELOW SHOWS 4 H. P. MODEL SHAW DU-ALL CULTIVATING TALL CORN

When the corn is too tall to run the tractor astride the rows, it can be thoroughly cultivated by running the tractor between the rows. Even when the corn is taller than a man's head, a splendid job of cultivating can be done with the SHAW DU-ALL, which helps to retain moisture and insures a bigger corn yield.

Figure 24
NO. ST3 3-ROW SPRING TOOTH CULTIVATOR

The No. ST3 3-Row Spring Tooth Cultivator has twelve teeth, six teeth on each gang, and goes on the beams in place of the regular tool plates. The No. ST3 3-Row Spring Tooth Cultivators are carried in stock with a range of adjustment for cultivating three rows 11 to 16 inches apart. Wider cultivators are made to order. See illustration at right above for side and front view of tooth. Teeth can be set for cultivating one, two or more rows. Fine for cultivating onions, spinach, etc. We also furnish the No. ST1 Single Row Spring Tooth Cultivator, which uses four teeth on each gang the same style as the No. ST3 3-Row Cultivator, and measures eight inches across the four teeth which are just as shown, in picture of three row but without the extensions that hold the two outer teeth. Both are excellent for land that has trash in the soil 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 come in contact with. The teeth are made of high grade spring steel, carefully tempered to stand hard service, and are fully guaranteed. Both the No. ST3 and No. ST1 Spring Tooth Cultivators come complete and can be quickly attached and removed from any Model Shaw Du-All Walking Type Tractor.

For several years the Shaw Du-All Garden Tractors have been equipped with Air Tires when desired, and have been used more and more until now the Air Tires are becoming very popular on the Shaw Du-Alls. However, the Steel Tires with Pyramid Lugs are still very popular, and both types of tires are giving excellent service. The Tractors with the Air Tires are more flexible and very easily handled. The wheels with the steel tires are interchangeable so that those who purchased the Du-Alls with the steel tire wheels can slip them off and replace them with wheels with Air Tires, if they desire.

There are some places where the steel tires with lugs are better, especially where there is much trash to run over, or where there is considerable green grass and weeds with heavy dew or much moisture which cause the Air Tires to spin while the steel tires with lugs work better.

For real loose sand it is advisable to use a very low air pressure in the tires so that the tires will spread more and make better contact in the sand. We use only high grade tires, made by reputable tire manufacturers such as Firestone and Goodyear with their latest improved treads, and with ordinary care the tires will last for many years.

Any Hy-Wheel Model Du-All Garden Tractor can now be equipped with Air Tires for only a few dollars more than steel tires.

4 H. P. MODEL D4 SHAW DU-ALL EQUIPPED WITH NO. 1B612 12-INCH DISC CULTIVATOR GANGS

Figure 27

Discs are easily attached to the tool plates by means of our Jiffy Hitch and can be adjusted to any position desired to throw the soil either to or from the plants. The discs are then controlled by the Shaw Patented Tool Control.

The No. 1B612 12-Inch Disc Gangs have three discs on a side, and cut a strip about 26 inches wide at one passing. We can also furnish the No. 2B812 12-Inch Disc Gangs which have four discs on a side, and cut a strip about 36 inches wide at one passing, however, for preparing seed beds and discing between wide rows we recommend the No. 2B812R Riding Discs (see Fig. 28) or No. 2B1012R Riding Discs (see page 55). Riding Discs are excellent for discing in orchards, vineyards, etc.

All Shaw Du-All Tractors including Master Models are equipped with adjustable governors which automatically maintain the desired speed regardless of quick changes in load and prevent racing or stalling of the motor. A manual control conveniently located near the handle control grip permits the operator to regulate the governor adjustment instantly when desired.

4 H. P. MODEL D4 DU-ALL WITH AIR TIRES DISCING WITH NO. 2B812R 12-INCH RIDING DISCS

Figure 28

Discs quickly attached to Tractor and detached by means of improved Jiffy hitch.

After the ground is plowed, especially if it has become packed by rains, it should be worked thoroughly in order to make a seed bed that will retain the moisture. The 4 H. P. Du-All handles the 12-inch Riding Discs with ease, and several acres can be quickly covered. The Air Tires are very efficient, practical and long-lived, and conserve fuel. A Tractor should be equipped with Power Turn to handle easily with riding discs. See Figure No. 105 for information about No. 2B1012R Wider Riding Discs.
In a number of tests, made under average conditions with steel tires, we find our present line of SHAW DU-ALL Tractors will do moldboard plowing at the rate of about ¾ acre per horse-power in 10 hours. In other words, the plowing capacities of the SHAW DU-ALL Garden Tractors are as follows:

2 H. P. DU-ALL, about 1 ½ Acres in 10 Hours
3 H. P. DU-ALL, more than 2 ¾ Acres in 10 Hours
4 H. P. DU-ALL, more than 3 Acres in 10 Hours
5 H. P. DU-ALL, about 4 Acres in 10 Hours

With Air Tires considerable more speed can be used if desired and more work done in the same time.

Of course, under more favorable conditions, it is possible to plow more than shown above, and under more adverse plowing conditions the amount is less.

HORSE-POWER OF ENGINES

Engines on all SHAW Tractors are given dynamometer tests which prove the actual horse-power to be more than we rate them. Note—One actual horse-power (mechanical horse-power, also known as brake horse-power) is the power necessary to lift 33,000 pounds one foot in one minute. Some manufacturers use other methods of figuring H. P., such as the N.A.C.C. formula. However this formula is not an accurate basis for computing H. P. because it does not take into consideration the speed, length of stroke, compression ratio, efficiency or carburetion, lubrication, cooling, etc.

As time marches on, ingenuity and determination have developed the Engines on SHAW Tractors to a high degree of perfection by using strong light weight reciprocating parts, increasing the size of the valves of heat resisting alloy steel, improved carburetion of fuel, better ignition, uniform lubrication, efficient cooling even in hottest summer days, perfectly balanced crankshaft, etc. The combination of these features make a durable, powerful, smooth running engine. We are proud of the actual H. P. ratings which are honestly applied to SHAW DU-ALL Tractors. There is no guess-work about the power of the SHAW DU-ALL Tractor you select. You can buy the SHAW Tractor with confidence.

All DU-ALL Tractors have honest workmanship and high grade materials thoroughout and are refined to the highest degree. We believe them to be the most dependable garden and field tractors on the market regarding of price, and we will put them up against any similar tractor—even though the other makes may be considerably higher priced and rated at considerably more horse power.

Exhaustive experimenting in laboratories, as well as actual field service, careful workmanship throughout, the heat treating of gears, etc., by the “man at the fire” who knows steel and how to heat-treat and temper it, enables us to embody in SHAW DU-ALL Tractors all of the desirable requisites of an all-round, sturdy, efficient Tractor. Every SHAW DU-ALL Tractor is given an actual pulling test and must come up to the standards before going to the shipping room. SHAW DU-ALL 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, wood saws, washing machines, cream separators, lathes, emery wheels, electric lighting plants, etc.

The general construction of all sizes of SHAW DU-ALL Tractors is similar. All engines are equipped with a governor which holds the proper speed desired for traction work and makes them excellent for belt work. That is why you can take the 2 H. P. DU-ALL, and in intermediate gear, you can do real deep plowing and other heavy work. The 2, 3, 4, and 5 H. P. DU-ALL Tractors handle the 10-inch Moldboard Plow nicely. The 3 H. P. Tractor will pull the 10-inch Moldboard Plow at a liberal depth and at a speed faster than the average operator cares to follow it in high gear. Remember, you can ride, though, if you get our Riding Attachment. The 3, 4 and 5 H. P. Models DU-ALL Tractors are excellent for the larger acreages, and especially if there is considerable moldboard plowing and other heavy work. SHAW DU-ALL Garden Shift Tractors have more power on the drawbar because all gears are accurately machine cut and heat-treated and run in a bath of oil, and we use roller and ball bearings thus reducing the friction.

Note that the No. VG2 Vine and Bush Guards are being used on the traction wheels to protect the large tobacco plants. Cultivating tobacco with the DU-ALL increases the yield, improves the quality and adds to the profits.

We supply different styles of Vine and Bush Guards for different types of wheels but all have same order number and price. If ordered separate from tractor, state model of tractor and type of wheels.

4 H. P. MODEL D4 DU-ALL WITH NO. RA4 RIDING ATTACHMENT PULLING NO. HS SPIKE TOOTH HARRROW

The No. RA4 Riding Attachment has an extra wide axle so the operator can ride over the No. HS Spike Tooth Harrow which is 5 feet wide. We can furnish extra length axle No. RA5 to convert the No. RA2 Riding Attachment into the No. RA4 Riding Attachment.
3 H. P. MODEL SHAW DU-ALL PLOWING UNDER RYE

For turning under a cover crop, the SHAW DU-ALL is excellent for it does this work so easily and efficiently. The plowing ability of the 3 H. P. SHAW DU-ALL will surprise you, for it handles the No. K10 10-Inch Moldboard Plow nicely. We recommend Weed Rod No. WR7 for turning under tall rye, weeds, etc.

3 H. P. MODEL D3 SHAW DU-ALL PLOWING

SHAW Tractors make farming profitable and homesteads attractive. Illustration above shows a good job of plowing by the SHAW DU-ALL, Model D3, on August Moerke's place, Leavenworth, Kansas.

Walking Type SHAW Tractors are easily converted into riding tractors by addition of the No. DRA6 DeLuxe Riding Equipment.

3 H. P. MODEL D3 SHAW DU-ALL CULTIVATING POTATOES

The SHAW DU-ALL is thoroughly dependable and is always ready to do your cultivating at the time it should be done. With the SHAW Patented Tool Control you can cultivate as close to the plants or as far from them as desired. This is an exclusive feature found only on the SHAW DU-ALL, and it is invaluable and cannot be overlooked in the purchase of a garden tractor.

CULTIVATING WITH 3 H. P. MODEL D3 DU-ALL

Even the ladies enjoy cultivating the garden with the SHAW DU-ALL. For with the three speeds forward they can always select the proper gear ratio for the work being done. Plants must be thoroughly cultivated at the proper time, and this can be done best with the SHAW DU-ALL.

FIGURE 39 BELOW SHOWS 3 H. P. MODEL D3 SHAW DU-ALL LAYING BY KAFIR IN A HURRY

Crops can be cared for quickly and easily with the SHAW DU-ALL Tractor shown equipped with 7.50 x 18 Inch Air Tires.
HILLSIDE CULTIVATION

SHAW DU-ALL Tractors with Power Turn work nicely on hillsides because the center of gravity is low and they are equipped with brakes. The DU-ALL shown here is cultivating strawberries on a steep hillside. For extreme conditions, the wheels can be set at their widest width to further stabilize the machine and to make it almost impossible to over-turn in operation.

FIGURE 42 BELOW SHOWS 3 H. P. MODEL D3 SHAW DU-ALL

Equipped with 7.50 by 18 inch Air Tires, cultivating soy beans. The handles on DU-ALLS are offset allowing the operator to walk to left of the row. New improvements on tractor and tool controls make the new models still more easily controlled than formerly. DU-ALLS cultivate rapidly, economically and thoroughly.

Although tires illustrated here are old style, we, of course, supply tractor tires with latest style tread.

Figure 42
The Tractor to buy will depend on your acreage, crops grown, etc. For small acreages, the 2 H. P. DU-ALL Garden Tractor is well liked. The 2 H. P. DU-ALL Garden Tractor will do the same work that the 3, 4, and 5 H. P. Tractors do but, of course, will not do it as fast. It does an excellent job of plowing with the 8-inch No. K8 Moldboard Plow and will handle the 10-inch No. K10 Moldboard Plow under favorable conditions. The 2 H. P. Tractor will do real deep moldboard plowing. The ball and roller bearings help to do it, together with the change of speed by shifting gears. Then, too, the high grade steel cut and heat treated spur gears, running in oil, reduce friction and conserve power for actual work.

The Engines on all SHAW DU-ALL Tractors are given dynamometer tests which prove the actual horse-power to be even more than we rate them. Note:—One actual horse-power (mechanical horse-power) lifts 33,000 pounds one foot in one minute.

If you want us to aid you in choosing a tractor, just write us what your work would consist of mostly and we will give you the benefit of our many years of experience in aiding you to select the proper tractor.

2 H. P. MODEL D2 DU-ALL CULTIVATING FLOWERS

The flower garden is sure to be more thriving when it is cultivated with the SHAW DU-ALL. The Hy-Wheel DU-ALL enable small plants to be thoroughly cultivated, running astride the row. The DU-ALL is always ready for work and does not destroy the plants like a horse would.

2 H. P. MODEL D2 DU-ALL PREPARING SEED BED WITH NO. OEH4 HARROW

The No. OEH4 Harrow comes complete with convenient jiffy hitch and is excellent for working down seed beds. See Fig. 122 for further description. The Model D2 DU-ALL is every bit as sturdy and powerful for its size as the larger DU-ALL's, and is fine for plowing, seeding, cultivating, mowing, etc., as well as harrowing. The tractor here is shown with 5.25x21 Inch Air Tires and No. WGO Weights. Weights are sometimes needed for additional traction when doing heavy work.

The sturdiness and practicability of the 2 H. P. DU-ALL Garden Tractor will greatly surprise you. While the engine on this Tractor is rated very conservatively at 2 H. P., on Dynamometer tests it develops considerably more. You can run the 2 H. P. DU-ALL Garden Tractor continuously all day under full load without danger of overheating the engine. Illustrated in Figure 48 cultivating with 6 No. 2367 1 3/4 inch x 8 inch Cultivator Steels, which are included as regular equipment. Air tires can be furnished at an extra charge, and are giving entire satisfaction.

2 H. P. MODEL D2 DU-ALL CULTIVATING SOY BEANS

When the plants are real small, the tractor can be run along in low gear, if desired, and as they increase in size the tractor can be run along in high gear at a merrily clip.

FIGURE 50 BELOW SHOWS 2 H. P. MODEL D2 SHAW DU-ALL RUNNING ALONG AND STEERING ITSELF WITHOUT OPERATOR

Plowing is a pleasure with the SHAW Jiffy Plow Hitch. As shown in the lower illustration, after the first round of plowing, the plow can be quickly leveled and set so that the right-hand tractor wheel runs in the furrow and steers the tractor and it will run along without an operator. It is surprising what a nice job of plowing the 2 H. P. SHAW DU-ALL will do. Both the engine and tractor are built ruggedly to stand hard continuous service, and under favorable conditions the 2 H. P. DU-ALL will pull the 10-inch No. K10 Moldboard Plow satisfactorily, especially when equipped with Air Tires.

2 H. P. MODEL D2 SHAW DU-ALL WILL DO YOUR WORK...
Figure 51 and Figure 52 show the 4 H. P. Model D4 Hy-Wheel Gear Shift DU-ALL being tested by pulling an Avery Farm Tractor Gang Plow with two 12-inch bottoms or a total of 24 inches. With the SHAW DU-ALL running in intermediate gear, it pulled these plows six to eight inches deep. We added extra weight in the form of circular weights on the traction wheels, as well as additional 200 lbs. weight on the front of the tractor.

SHAW DU-ALL Tractors are running under these grueling tests for many hours; not that we expect the owners to give the tractors such loads, but it is our policy to test out the tractors in order to test the gearing and all other working parts that are called upon to do their part in making the tractor operate satisfactorily and to make it long lived.

TESTING 4 H. P. MODEL D4 SHAW DU-ALL TRACTOR

We do not furnish gang plows for our Tractors, but use them only for testing purposes to prove the actual pulling power of our SHAW DU-ALL Tractors. We do not recommend pulling this type of plow with a garden tractor because on account of the outfit being light, it is rather difficult to turn at the ends of the land. A 10-inch plow is generally used. However, we can furnish a 12-inch Moldboard Plow, No. SP12, which the 4 H. P. DU-ALL handles very nicely.

WHY THE SHAW DU-ALL TRACTOR WILL OUT-PULL TRACTORS OF CONSIDERABLY HIGHER HORSE-POWER RATING

Over 30 years' experience in selecting proper materials, heat-treating, etc., are built into the SHAW DU-ALL Tractor. First class tractors cannot be designed, perfected and built over night. It requires careful designing and planning, suitable materials for the various parts, good machine work, proper heat-treating, tempering, finishing, inspecting and testing—and this testing must be done, not only in the laboratory, but at actual work so that the tractor is proven before being offered to the public. In other words, it takes the combined efforts of the designers, draftsmen, mechanics, and real dirt farmers to plan and work together to pass their final judgment on the job.

We do not wait until our tractors reach your field to prove their fitness, for we know that you do not want the tractor for testing purposes, but to do the important work that must be done in season. The SHAW DU-ALL Tractor is built with the express purpose of doing the work not only of men, but of horses and mules, and in order to be successful it must stand up under hard work not only day after day, week after week, month after month, but for many years.

The test illustrated by Figures 53 and 54 shows that the transmission gears, bearings and, in fact, all the pulling parts, will stand up and take plenty of punishment. This strenuous test, pulling a gang disc plow which gives four horses or mules a good load, proves that you need not be afraid of overloading gearing, bearings, etc., on the SHAW DU-ALL. The No. ED32 Extension Traction Rims with No. W40 Weights were added, and there were long pyramid lugs on both of the traction wheels and extension rims. Besides, there were extra weights added to give the necessary extra traction required for pulling such a load. The primary object of such tests is to throw extra heavy duty on all of the transmission parts in order to prove their fitness. The fact that the DU-ALL stands up under such tests proves that we have the correct design and have selected the proper roller and ball bearings and alloy steel for gears and all parts that are subject to strain.

HIGH GRADE CONSTRUCTION

An outstanding feature of SHAW DU-ALL Tractors is the fact that they are constructed almost entirely of steel. In order to get enough strength and at the same time keep the weight down, we use Nickel Chromium Steel in a number of places. This practically gives two tractors in one, because for light weight work you can have the tractor "striped," by removing part of the traction lugs. Then, for heavier work, all of the traction lugs can be put on and besides the Circular Weights No. W60 and the No. TR22 or No. ED32 Extension Traction Rims can be added which increase the weight and greatly increase the drawbar pull. Our many years of experience have proved that it is very desirable to build tractors of strong materials in order to keep the weight down for light work, thus making the tractor easier handled. Then, for heavier jobs, weight and more traction can be added as suggested above.

DU-ALL Pulling disc gang plow that gives 4 horses or mules a good load

You need not be afraid of overloading gearing, bearings, etc., on the SHAW DU-ALL. The proper alloy steels have been selected after numerous tests. Special attention is given to the heat treating of these alloy steels, and careful inspection is made of the finished product so that our customers will have a tractor that will go out and stand up under heavy duty for a long time and give the service they have a right to expect.
THE MASTER SHAW DU-ALL RIDING TRACTOR MODEL R2D5, WITH 10-INCH NO. E10 MOLDBOARD PLOW

THE MASTER SHAW DU-ALL RIDING TRACTOR—ready to go to work for you. The 5-horsepower Model R2D5, shown above, is equipped with husky twin cylinder Stover engine. (Specifications of Stover Engine on page 38). 6.00x22 Air Tires (35-inch outside dia.) on drive wheels, 4.00x15 latest improved Hi-Rib Tread Tires (24-inch outside dia.) on front wheels and 10-inch plow. Without brakes it will turn in a 6-to-7 foot radius; with brakes it will turn in a 5½-foot radius. With small front wheels (available if you desire) the tractor will turn shorter. The Six-Speed Feature (allowing 15 miles per hour in high) is optional at slight extra cost. MASTER DU-ALL RIDING TRACTORS have the same plant clearance under the axles as SHAW DU-ALL WALKING TRACTORS, fully 16 inches when equipped with 6.00x22" rear tires.

Other MASTER SHAW Models are the same as above except powered with different engines. Model R2D5, as well as other models, also available with metal wheels as shown on tractors in Figures 63 and 64.

The MASTER SHAW DU-ALL Tractor can be furnished with either 58-inch or 48-inch wheel-base. The 58-inch wheelbase is regularly carried in stock and is the most popular tractor and turns in a 5½ foot radius. The MASTER SHAW DU-ALL is furnished with 3, 4, 5, 6 and 8 H. P. engines, all air-cooled. The 5 H. P. is furnished with either twin cylinder or single cylinder engine. All are dependable engines built by reputable manufacturers of many years' experience in the successful manufacture of highest quality, air-cooled engines. For general specifications of the MASTER SHAW DU-ALL, see Page 35. For engine specifications, see Page 38 for Twin Cylinder Engine, Page 9 for Briggs & Stratton Single Cylinder Engine, and Page 38 for Wisconsin Single Cylinder Engine. The MASTER SHAW DU-ALL is a ruggedly built, dependable tractor that will give years of satisfactory services at low cost. The MASTER SHAW DU-ALL can be purchased for only a few dollars more than the small walking type tractors, commonly known as garden tractors. There is not much difference between the work done by the SHAW DU-ALL 3, 4 and 5 H. P. Type of Tractors and the MASTER SHAW DU-ALL Tractors of the same horsepower. However, the MASTER SHAW DU-ALL is better liked by some commercial growers and others for handling considerable acreage. The 5, 6, and 8 H. P. MASTER SHAW DU-ALLS do the work faster, especially when equipped with air tires.
MODEL RD5 5 H. P. MASTER SHAW DU-ALL TRACTOR

with single cylinder Briggs & Stratton engine with a 10-inch moldboard plow and air tires. The variety of sizes in which MASTER SHAW DU-ALL Tractors are available, plus the many improvements available, makes them suitable for farmers with large or small acreages.

THE NO. 32CR CULTIVATING EQUIPMENT PERMITS CLOSE, ACCURATE WORK

Referring to the letters on Figure 57 below. When the operator of the MASTER SHAW DU-ALL pushes the foot pedal "B", it moves both front cultivating tools "D" and "E" to the left, and the right foot pedal "C" moves back. By releasing the pedal "C" forward, it moves the cultivating tools "D" and "E" to the right, and the foot pedal "B" moves back. However, if both pedals "B" and "C" are pushed, the tools "D" and "E" are spread farther apart, which is sometimes desirable when cultivating wide hills or rows. Then, by releasing the foot pressure so that either both pedals come back, the tools are urged by a spring between the upper or front ends of the beam and come close together to a point predetermined by setting the spring stop which gauges the distance between the tools when the foot pressure is released. This feature will be especially appreciated when cultivating melons, cucumbers, etc., where the hills are wide, by permitting the operator to spread the tools at the hills and closing them between the hills, thus doing a thorough job of stirring the ground. The tractor steers easily, and the cultivating tools are usually controlled by steering the tractor, but the operator has absolute control at times—even when cultivating rows where the plants or hills are not uniform. The tool control comes in handy, for occasionally any tractor will swerve off to either side and plow out plants unless the tools next to the row are controlled—but not so with the MASTER SHAW DU-ALL, because the operator, having a clear view of the rows, shifts the tools, thus saving the plants from being plowed out. For further description see Page 36. "A", the clutch pedal, is pushed to disengage the clutch while shifting into the desired gear, first, second, third, or reverse—or into neutral—the same as the conventional type of automobile gear shift. "F", the clutch spring, has a quick adjustment for changing the tension. "I", the steering gear case, encloses the steering gears. The Gear Case "H" encloses the final drive and differential gears. The steering gears, final drive gears, and differential gears as well as all other gears on the tractor are machine cut alloy steel properly heat-treated, and they run in oil or grease. See page 35 also.

Cultivating Equipment No. 32CR shown in illustration of the 6 H. P. Model RD6 MASTER SHAW DU-ALL (figure 58) includes six 2-inch x 8-inch cultivator steel. This cultivating equipment is very efficient, and does a close thorough job of cultivating. Foot pedals control the front steels or tools independently so when there are wide hills the tools may be spread by pushing both foot pedals and then brought closer together by releasing foot pressure. When cultivating crooked rows or in cross plowing checked corn etc. the front cultivating tools are easily moved by the foot pedals to dodge the hills off to either side. Where the rows are straight and the hills of uniform width, or where the plants are large enough to justify high speed cultivating, the steering of the tractor steers these front tools accurately enough for real close, fast cultivating. However, if the tractor should swerve to one side, the feet resting on the pedals can quickly move the front tools either right or left or spread them, because the right foot moves the cultivating tools to the right, and the left foot moves them to the left. When both pedals are pressed at the same time, the tools will spread. That is, the right tool shifts to the right and the left tool shifts to the left. In pushing both of the foot pedals, if one pedal is pushed farther than the other one, the cultivating tool on same side will be moved farther. For cultivating small plants, the No. P55 Plant Shields can be used. All cultivator rigs are lifted by same lever. More cultivating steels can be attached in front and less in the rear if desired.

5 H. P. Model RD6 Master Shaw Du-All, Riding Tractor on test pulling a 10 foot harrow in soft ground, running in second gear.

Tractor will pull a 10 foot harrow, but it is better to use a 5 foot harrow and run faster.
Specifications MASTER SHAW DU-ALL Tractors

CAPACITY: Handles load ordinarily pulled by one good horse or light team. Daily work capacity equal to or greater than that of two horses on account of having faster speed and doesn’t have to stop to rest.

TRANSMISSION: Selective Sliding Spur Gear Automatic Type, alloy steel, forged, cut and heat treated. Three speeds forward and a reverse. Optional, six speeds forward and two reverse on MASTER as well as Walking Type MASTER DU-ALL Tractors—see general price list. The six gear ratios make a “Super Speed” SHAH Tractor which runs over fifteen miles per hour in highest gear. Six speeds are becoming popular when air tire equipped.

SPEEDS: 3, 4 and 5 H. P. first 1 1/2 miles per hour; second 2 1/2 H. P., third or high, 4 M. P. H., first 1 1/2 M. P. H.; second, 3 1/4 M. P. H., third, 1 1/4 M. P. H.; fourth, 2 M. P. H., fifth, 1 M. P. H.; sixth, 1/2 M. P. H.

SPEEDS: 3, 4 and 5 H. P. first 1 1/2 miles per hour; second 2 1/2 H. P., third or high, 4 M. P. H., first 1 1/2 M. P. H.; second, 3 1/4 M. P. H., third, 1 1/4 M. P. H.; fourth, 2 M. P. H., fifth, 1 M. P. H.; sixth, 1/2 M. P. H. Speeds can be varied with throttle. Six speeds optional—see price list. All Models have reverse.

CLUTCH: Foot pedal controlled, sheave pulley—belt clutch. Companion belt operated V-belt clutch on famous SHAH DU-ALL Walking Type Tractors—gives years of trouble-free service.

FINAL DRIVE: Enclosed gear-driven, running in oil, machine cut spur gears, hardened.

BELT PULLEY: Extra Equipment. 6-inch diameter, with 3-inch face, on 5-horsepower and smaller models. 6-and 8-horsepower models use pulley 6 1/2-inch diameter by 4 1/2-inch face pulley. Speed variable; pulley fits both engine shaft and transmission shaft at engine speed on engine shaft or about 2/3 engine speed on transmission shaft.

STEERING: 15-inch steering wheel and enclosed gears running in grease make steering easy.

AXLE: Rear, Round Alloy Steel, 1 3/8" Diameter x 34" Long; Front, 1 1/2" Diameter, and open, or with steering.

BRAKES: Brake shoes 7 1/4" diameter and 1 1/2" wide. Brake bands are lined with Raybestos Brand of woven asbestos which lasts for years. Hand operated brakes are regular equipment—operate by lever located by the side of the seat as shown in Figure 87 page 49. Foot brakes can be furnished at small extra cost as shown on price list.

REAR WHEEL TREAD: Adjustable, approximately 1 1/2 inches to 3 1/2 inches between tires. Front wheel tread is fixed—rear wheel tracks cover front wheel tracks; except when rear wheels are reversed for widest adjustment. This tread adjustment meets practically all farming requirements. Wider tread fore both front and rear wheels available at small extra cost.

WHEELBASE: The MASTER SHAW DU-ALL Tractors are made with the wheelbase of either 58 inches or 48 inches. Tractors with the 58-inch wheelbase are carried in stock, because this wheelbase is more popular even though it requires a little more space to turn. The 58-inch wheelbase tractor pivots on one drive wheel and turns in a 3 1/2-foot radius. It rides better on the road as well as in the field, and steers very easy with light or heavy loads.

TURNING RADIUS: 5 1/2 feet with 58-inch wheelbase; 4 1/2 feet with 48-inch wheelbase.

DRAWBAR: Swing type, has both vertical and horizontal adjustment.

BEARINGS: Equipped with New Departure and other high grade ball and roller bearings to reduce friction and insure long life.

DIMENSIONS: Wheelbase, 58-inches. Overall width, 34-inches. Overall length, 87-inches from back of rear to front of front tire. Height, top of hood, 47-inches.

WHEELS: Either metal or air tires, please see price list. Metal Traction wheels 32-inches diameter and 4" face with 3-inch pyramid lug, making overall diameter 38-inches. Front wheels metal 24" diameter over center rib and 4" face. Rear Air Tires—600x22"—35" diameter overall. Front Tires—4.00x15"—24" diameter overall. Also can supply front tires size 4.00 x 8"—16" diameter overall.


POWER TAKE OFF PULLEY: No. PT3, approximately 6" diameter with 3-inch face, designed to fit crankshaft of Models RD3, RD4A, RD5 and RD5S Tractors, and transmission shaft on any MASTER SHAW DU-ALL Riding Tractor, No. PT6, approximately 6 1/4" diameter with 3 1/2" face, designed to fit crankshaft of Wisconsin Engines on Model RD6 and Model RD8.

WEIGHT: Approximately 1000 lbs. equipped as shown in Figure 55 but less plow.

**Figure 59**

MODEL RD3 THREE HORSEPOWER MASTER SHAW DU-ALL

with single cylinder Briggs & Stratton Engine with cultivating equipment No. 32CF, shown with hood and fenders removed to display sturdy, convenient construction. All models three to eight horsepower can be supplied with or without hood or fenders. All models can be furnished with air or steel tires. Weight as shown approximately 750 lbs. equipped with tires, size 6.00 x 22 inch. The No. 32CF Cultivating Equipment is shown here with four 4-inch x 8-inch cultivator steels. However, it is often used with six or eight 2-inch x 8-inch cultivator steels. The depth of cultivating is regulated by a hand lever which also lifts the tools from the ground. Foot controls can be furnished on the No. 32CF Cultivating Equipment at small extra charge.

**SPRING TRIP STANDARDS, FIGURE 59A**

can be furnished instead of regular standards at a small extra charge.

**Figure 59A**

**IMPROVED CARBURIZING MACHINE**

The Figure No. 60 to the left shows one of several carburizing machines and furnaces in our heat treating department, which greatly simplifies the work of carburizing and makes possible uniform carbon penetration with machinestyle precision; all pieces of work in the same charge are carburized to the same depth, consequently when tempered have a uniform predetermined thickness of case hardening. We use modern heat controllers for regulating the temperature within very close limits. Being equipped for carburizing for case hardening as well as for other heat treating, enables us to economically heat treat and case harden many parts of the SHAH Tractors including all gears, bushes and other parts subject to wear. The design of SHAH Tractors having been approved, carefully selected materials properly machined, heat treated and finished result in long lived, trouble free tractors.

**Figure 60**
SPECIFICATIONS — 6 AND 8 H. P. WISCONSIN ENGINES

FUEL CAPACITY: 1 ½ gallon.

IGNITION: High tension magneto with impulse coupling is furnished as standard equipment. Produces a strong spark which allows easy starting.

GOVERNOR: Is fully protected and requires no oiling. Furnished as standard equipment.

SPEED REGULATION: Lever within easy reach of operator. Changes tension of governor spring and gives wide range of engine speed.

CARBURETOR: Carburetor with automatic choke release is furnished as standard equipment. Designed for both easy starting and economical performance.

AIR CLEANER: Equipped with efficient air cleaner of oil bath type.

FUEL: These engines are regularly furnished to burn gasoline, but can also be furnished to burn kerosene or fuel oil of gravity of 88-85 Beume test at $10.00 net extra.

LUBRICATION: Pump circulated splash system. Oil pump is in engine base and is operated from the cam-shaft. Capacity 4 1/2 pt.

TYPE: 4 Cycle, L Head, Air Cooled.

BORE: 6 H. P. 3 3/4"—8 H. P. 3 5/8".

STROKE: 6 H. P. 4"—8 H. P. 4".

PISTON: Aluminum Alloy.

PISTON RINGS: 2 Compression rings, 1 Oil control ring.

MAIN BEARINGS: Timken roller of generous size.

COOLING: Large fan in flywheel supplies a strong blast of air which is forced across and around the cylinder and head. A housing is used to direct and proportion the air current to various parts of the engine, assuring efficient cooling.

MASTER SHAW DU-ALL TURNING IN CIRCLE WITH 4-1/2 FT. RADIUS

The Master SHAW DU-ALL equipped with 6.00x22 inch air tires (35 inch overall diameter) on Tractor Wheels and 4.00x8 inch (116 inch overall diameter) air tires on front wheels, and aided by brakes with 48 inch wheelbase, will turn in a circle of 4 1/2 feet radius. Controls for power turn brakes are conveniently located for hand or foot operation. Regular width Master Shaw DU-ALL Tractors will also run between 42 inch corn rows for final cultivation. Hood, grille, and fenders may be added.

ENGINE NEVER FREEZES NOR OVERHEATS ON DU-ALLS

Model RD4A MASTER SHAW DU-ALL with single cylinder Briggs & Stratton engine equipped with strong fenders, rated horsepower, quoted on price list. Improved swing type drawbar is now adjustable for height, as well as laterally. The drawbar pull of Master SHAW DU-ALL Tractors is approximately 3-5 times the rated horsepower. For example the 5 horsepower model R2DS and RDS have approximately 3 drawbar horsepower. Hood and grille may be added. We recommend the use of protective fenders, especially on tractors equipped with metal wheels and pyramid lugs.

MASTER SHAW DU-ALL Model RDS. Revealing its clean lines, convenient controls, and showing another view of the protective fenders, the Twin Model R2DS Master SHAW DU-ALL, does a good job of plowing with the 10-inch No. K10 Moldboard Plow, running in high gear.

The Super Speed Feature is quite popular on tractors equipped with Air Tires because it permits running the tractor at rapid speeds from one job to another and for pulling wagons and trailers on highways; however, it is not practical for use on tractors equipped with metal wheels.
Air tires conserve fuel and power—see comparison below.

Tractor will pull 12-inch plow, but better use 10-inch plow and run faster.

5 H.P. TWIN MODEL R2DS MASTER SHAW DU-ALL RIDING TRACTOR PULLING 10-INCH NO. K10 MOLDBOARD PLOW—REAR WHEELS OF TRACTOR SET FOR MEDIUM TREAD

When the ground is in favorable condition for plowing, the Model R2DS Master SHAW DU-ALL will pull the 10-inch plow on high gear. In the above picture, the frost was just coming out of the ground, and it was rather wet and soft. However, the Model R2DS pulled the No. K10 Plow, doing a good job in high gear.

When the 5 H.P. Tractor is equipped with air tires, the drawbar horse-power is about 80% of the rated engine horse-power, which in this case would be 4 H.P. on the drawbar. On the other hand, when equipped with metal wheels and lugs, the horse-power on the drawbar is only about 3/5 of the engine’s rated horse-power, so would have drawbar horse-power of about 3 H.P.

8 H.P. MODEL RDS MASTER SHAW DU-ALL CULTIVATING KAFFIR CORN

Master SHAW DU-ALL tractors are quite versatile and can be adapted to a great variety of jobs. Their high clearance enables them to run astride rather tall crops. However, when the crops especially corn, kaffir, etc. are too tall for cultivation astride the rows, the Master Shaw Du-All tractor will run between regular 42-inch width rows, and enable cultivation to be done long after cultivation with most tractors is impossible. Either 32CF or 32CR Cultivating Equipment is satisfactory for this work.

5 H.P. Tractor, in 2nd gear, pulls 7-ft disc (load for 4 horses or mules); pulls our #281016 or #28116 Disc in high gear.

This is an example of the good work that the Master SHAW DU-ALL does when equipped with air tires. They conserve fuel and power. We recommend the air tires very highly in preference to the iron lugged wheels.

We suggest using the No. 281016, 16-Inch Discs Cultivator Gangs (5 discs on a side), or the No. T2816 Tandem 16-inch Discs (double set of four discs on each side—total 16 discs) with the Model R2DS Master SHAW DU-ALL.

NO. DRA6 DE LUXE RIDING EQUIPMENT

This illustration shows the No. DRA6 De Luxe Riding Equipment with 4.00 x 8 inch (16 inches outside diameter) Air Tires. Also furnished with steel wheels, 16 inches diameter with 3-inch face. Air tired wheels have roller bearings; steel wheels have plain bearings. It is shown here with the No. D307A Hitch which fits any Model SHAW DU-ALL Garden Tractor. It is provided with a drawbar for coupling harrows, tools, trailers, wagons, etc. Operates easily with plowing, cultivating and other tool equipment. When used in connection with a SHAW DU-ALL equipped with power turn, it will pivot on one traction wheel and turn in a 5-foot radius.

The No. RA2A Riding Attachment (figure 69A) is built similar to the No. DRA6 De Luxe Riding Equipment (see Page 102) but does not have the automatic steering feature and its wheels remain parallel to the pole or drawbar. Can be used with moldboard plow as well as cultivator. Harrows, etc., may be hitched behind on the drawbar. Turns in a radius of approximately 7 feet. Show in 4.00 x 8 inch (16 inches outside diameter) air tires which come at small extra cost; quoted with 16-inch steel wheels with 3-inch face with plain bearings. Air tired wheels have roller bearing. No. RA2A replaces No. R2A. Riding Attachment and is supplied instead of the No. RA2.
SHAW DU-ALL HAS MORE POWER—GREATER PERFORMANCE

4 H. P. MODEL D4 SHAW DU-ALL WITH NO. PSS PLANT SHIELDS
(See Figure 70)

This is a rear view of the 4 H. P. Model D4 SHAW DU-ALL with 6 - 2 inch x 8 inch Cultivator Steels which are regular equipment, and the No. PSS Plant Shields which are used for protecting small plants when cultivating up close to them. Tractor shown equipped with 7.50x18 Inch Air Tires.

The No. PSS Plant Shields attach directly to the tool beams and are quickly attached and detached. These Shields enable intensive cultivation of small plants without danger of injury to them. The No. PSS Plant Shields also fit the Master SHAW DU-ALLS. For protecting large vines and plants, the No. VG2 Vine and Bush Guards, illustrated in Figure 33 can be used.

Figure 70

HAULING 4 H. P. MODEL D4 DU-ALL, WITH AIR TIRES, IN “PICK-UP” TRUCK

Thousands of SHAW DU-ALL Tractors are hauled in trucks and trailers of various types by salesmen as well as owners everywhere. Many purchasers call our factory and haul their tractors home. Arrangements to obtain tractor should be made before calling for same. One customer hauled his tractor on a trailer from the factory at Goletas to his ranch in California. SHAW Tractors load easily under their own power. However, except for moving considerable distances, it is quite practical to merely run the tractor from one location to another. In fact, when equipped with Air Tires and Super Speed Feature, the larger SHAW Tractors will run fifteen miles per hour and they are often used for pulling wagons and trailers. They are used for many and varied purposes. For example, owners in Alaska use SHAW DU-ALL Tractors to pull sleds, thus replacing dog teams.

Figure 71

SHAW DU-ALL CUTS TALL GRASS AND WEEDS

The No. CB42 Cutter Bar Attachment is attached in a jiffy to the front of the DU-ALL frame by hooking over four bolts and tightening four nuts at "A" and putting in two bolts at "B". It is gear driven, and is quickly attached and detached. The cutter bar knife is driven by the tractor or engine, and is thrown in and out of gear by a friction clutch.

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 binders will not cut on account of the wheels sliding. Our 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 height of cutting can be regulated by the gauge wheel in front. Provision is made for tilting cutter bar to throw points of guards up or down. We furnish the 3½ foot Cutter Bar Attachment for all Models SHAW DU-ALL Garden Tractors and the five foot size for 3 H. P. and larger SHAW DU-ALLS and Master SHAW DU-ALLS.

Figure 72

THREE SPEED GEAR SHIFT TRANSMISSION CASE AND THE FINAL DRIVE GEAR CASE

The above Rugged Transmission is now used on all SHAW DU-ALL Tractors, giving the Three Speeds Forward and a Reverse. All gears are cut from alloy steel and are carefully tempered to give long life. All gears run in a bath of oil. The Cutter Bar Attachment No. CB42 has only three gears, and they are enclosed and run in a bath of oil. The Cutter Bar Attachment for any Model DU-ALL can be quickly attached or detached.

Figure 73

CUTS 'EM ALL—SHORT OR TALL

Close Up View
Figure 75

**NO. CB42 CUTTER BAR ATTACHMENT**

We furnish cutter bars up to 5 foot cut. However, we do not recommend using more than a 3 1/2 foot cut except with the 3 H. P. and larger DU-ALLS which will handle up to a 5 foot cut.

Figure 76

**4 H. P. MODEL D4 SHAW DU-ALL TRACTOR WITH NO. DRA6 DE LUXE RIDING EQUIPMENT AND NO. CB42 3 1/2 FT. CUTTER BAR ATTACHMENT**

This makes a compact riding mowing machine—one that is easily handled and does efficient work. We can also furnish the No. CB60 5-Foot Cutter Bar Attachment which 3 H. P. and larger tractors handle nicely. Many SHAW DU-ALL Mowers are used by county, state and municipal governments.

Figure 77

**4 H. P. GEAR SHIFT DU-ALL WITH AIR TIRES AND NO. CB42 CUTTER BAR ATTACHMENT MOWING PUBLIC HIGHWAY**

Here's a real outfit for cutting unsightly weeds along public highways, private drives as well as mowing meadows. Very strong, durable, efficient and easy to operate. Can be furnished with either metal or air tires. Further particulars on request.

Figure 78

Side draft is eliminated by adjustable gauge wheel in front of tractor.

Figure 79

**4 H. P. MODEL D4 SHAW DU-ALL WITH AIR TIRES, EQUIPPED WITH NO. CB60 5 FT. CUTTER BAR ATTACHMENT**

Equipped with No. CB42 Cutter Bar Attachment and Air Tires mowing a thick growth of tough grass with ease. The SHAW DU-ALL is right at home for cutting grasses for hay. Also fine for parks, etc.

Figure 79

**4 H. P. Model D4 SHAW DU-ALL**
MOWING WITH 4 H.P. SHAW DU-ALL AND NO. CB42 CUTTER BAR ATTACHMENT

Figure 82

Several acres can be quickly mowed with the SHAW DU-ALL doing the work. The 4 H.P. DU-ALL also handles the No. CB60 5-foot Cutter Bar nicely, however we recommend using De-Luxe Riding Equipment when using 5-foot cutter bar.

3 H.P. MODEL D3 DU-ALL PULLING NO. HR8 EIGHT FOOT HAY RAKE

Figure 83

The 3 H.P. SHAW DU-ALL handles the eight foot rake nicely and easily not only for windrowing but also for bunching windrowed hay. The SHAW DU-ALL with the Cutter Bar and this rake makes fine equipment for anyone having hay to put up.

HAULING HAY WITH 4 H.P. SHAW DU-ALL

Figure 84

Any model Shaw DU-ALL comes in handy for pulling wagons, trailers, etc. Our No. H12 Handy Jiffy Hitch shown in figure 98 is fine for connecting up trailers, wagons, etc. Ride if you wish "De Luxe."

5 H.P. MODEL D5 SHAW DU-ALL WITH 7.50x18 INCH AIR TIRES, CB42 CUTTER BAR ATTACHMENT AND DRAG DE LUXE RIDING EQUIPMENT WITH 4.00x8 INCH AIR TIRES

This makes a compact riding mowing machine—one that is easily handled and does efficient work. We can also furnish the No. CB60 5-Foot Cutter Bar Attachment. The 5 ft. size cutter bar is excellent for mowing large tracts and is handled easily by the larger size Shaw DU-ALL Tractors. The 3½ ft. size is excellent for use with the smaller size Shaw DU-ALL tractors or even with the larger size Shaw DU-ALL tractors where the work will be done on small plots or in parks, cemeteries, and places where there are numerous trees or other obstructions.

4 H.P. MODEL D4 DU-ALL PULLING NO. HR8 HAY RAKE

We also furnish ten foot hay rake. See page 48.
return to the ground at once so as not to leave any hay unraked, without dragging or scattering the raked hay. These Self Dump Rakes are made for us by one of the leading implement manufacturers, located in Louisville, Kentucky, and will be shipped from there.

DOUBLE BARRELLED DUMP ROD SPRINGS eliminate undue strains, assure instantaneous action and enable rake to dump on turn as well as when going straight.

LARGE INTERNAL RATCHETS AND DUMP RODS. 7/8” dia. dump rods engage squarely against the heavy teeth in extra large diameter ratchet hub.

LOCKED IN ENGAGEMENT. A pawl is provided in dump rod case that locks the dump rods in and out of engagement. There is no chance for them to catch except when engaged by pushing on the pedal and when engaged they cannot slip loose until dump is fully completed.

SHOCKS AND JARS ELIMINATED. When the dump is completed the dump rods are thrown out of engagement by a spring yielding snubber.

STEEL ANGLE RAKE HEAD will not sag. It is made of an unusually sturdy section. On heavy duty rake an extra steel angle provides a double rake head and has heavy reinforcing plates at the ends.

FRONT FRAME is made of steel angles with sturdy connections between them.

HOLD DOWN LOCK ADJUSTABLE. A set screw is provided against which the hold down lever rests. This provides a fine adjustment to set hold-down bars so that they just pass over dead center and lock rake down, yet are easily released by slight pressure on the dump lever. If bars should wear, this set screw is easily adjusted so that it will work just right.

STRONG FORGED SPOKE WHEELS. The wheels regularly used on these Rakes are 54” diameter with 2½” channel-out rims, and 18 ½” round spokes. They are the type generally known as mountain wheels, and have great strength to withstand all loads. The spokes are hot forged into the hubs just like boiler rivets with a head on the inside and a shoulder on the outside. The spokes are forged in the hub, the wheels are both true and round and every spoke has equal tension. It is uneven tension on the spokes that causes most wheel failures. With even spoke tension, the wheels are extra sturdy.

TOOTH HOLDERS are heavy, made of malleable iron. Made in two sizes, No. HR8 with 26 teeth, 25/64” diameter of fine spring steel, rakes 8 feet or two swaths cut by 1½ foot mower. No. HR10 with 32 teeth, 25/64” diameter of fine spring steel, rakes 10 feet or two swaths, cut by 5 foot mower.

TRIP LEVER is conveniently located and with the set screw adjustment on hold down lever it can be set so that it always works with slight pressure.

STEEL BAR CLEANERS. They are made of rectangular steel bars set on edge for great strength to prevent bending when cleaning rake of heavy hay, weeds, or stalks.

TRIPPING HEIGHT ADJUSTABLE. Rake can be set to raise teeth high or low. This is a great convenience when raking light crops as rake can be set for a quick dump with a minimum of effort.

LARGE, COMFORTABLE SEAT, properly located and well ventilated. Strongly mounted on spring support.

CUSHIONED DUMP. A heavy spring is provided to partly balance weight of teeth. It assists at beginning of dump and cushions the drop greatly increasing the life of the rake and making operation smooth and easy.
BY MEANS OF SHAW PATENTED TOOL CONTROL OPERATOR HAS ABSOLUTE CONTROL OF CULTIVATING TOOLS AND STEERING AND SPEED OF TRACTOR WITHOUT REMOVING HANDS FROM CONTROL GRIPS

Figures 88, 89, and 90 show rear views of the 4 H.P. Model D4 Hy-Wheel Gear Shift DU-ALL with Air Tires, equipped with 6 No. 2368 2 inch x 8 inch Cultivator Steels which are included as regular equipment.

Figure 88 shows the hand control grips and cultivating tools in normal position, tool holder plates connected together by means of the connecting arch.

Any plant that the traction wheels pass astride can be safely cultivated by moving the cultivating tools to the side. The handles are offset to the left so that when the tractor runs astride the row, the operator walks to the left of the same row, see Figure 91 small DU-ALL cultivating crooked rows of corn that are not checked evenly (tractor equipped with No. 55 Plant Shields for protecting the small plants). Cultivating tool holder plates can be held the desired distance apart by the connecting arch. There are a series of holes for changing this spacing.

Figure 92 shows a rear view of the 2 H.P. Model D2 Hy-Wheel DU-ALL with connecting arch removed, and the right control grip turned to the right so that the right gang of tools is moved to the right, and the left control grip turned to the left so that the left gang of tools is moved to the left. In this manner both cultivating gangs are controlled independently of each other.

THE ILLUSTRATION AT RIGHT shows how easily the New SHAW DU-ALL is turned around at the end of a row. A slight pull on either handle sets the power-turn in motion and the tractor turns to right or left, depending on the handle pulled. The more you pull the slower the wheel turns on that side and the shorter the tractor turns. As easy as driving a well trained horse. No wonder a woman or a 10-year-old boy can run this tractor.

Illustration above shows a SHAW DU-ALL with gear case cover removed to show the final drive gears and differential gear case.

Illustration above the Tractor pivots in its track by its own power and starts down the adjoining row.

Tractor has completed turn without physical effort on part of operator and is running down adjoining row.
SHAW DU-ALL WILL MOW YOUR LAWN

The No. E33 SHAW Patented Jiffy Hitch Adapter permits a better job of lawn mowing, for it enables the operator to turn in very close quarters and mow around trees close up to them. With the No. E33 Jiffy Hitch Adapter, any ordinary hand lawn mower up to 30 inches cut can be used with any Model SHAW DU-ALL Garden Tractor. Illustrated in Figure 96 with 3 H.P. DU-ALL.

FIGURE 97 SHOWS MODEL LM29 SHAW MOTOR MOWER, 29-INCH CUT

We also furnish Model LM21 SHAW Motor Mower, 21-inch cut. These motor mowers are powered with latest model 1 H.P. Briggs & Stratton Engines which are rated conservatively at 1 H.P. and have the same general features of construction given on Page 9. These mowers come complete with grass shields preventing cuttings from being thrown back and up onto the operator. Illustrated with shield off to give a better view of the machine.

The cutting unit is the famous Crestlawn Lawn Mower with the exclusive Patented Self Adjusting Feature which keeps the reel bearings in perfect adjustment, never requiring care or attention, and is in dust-proof case. The mower is of the self-sharpening type.

The SHAW Motor Mower is very popular, and its simplicity, efficiency and durability are unsurpassed. It is ideal for estates, cemeteries, schools, parks and other public premises.

HANDY JIFFY HITCH NO. H12 (See Figure 98)

The H12 Handy Jiffy Hitch is very desirable and convenient for attaching trailers, carts, wagons, sleds and other conveyances behind SHAW DU-ALL Tractors. Comes complete with cross member No. D307, yoke, king bolt and coupling pole. Replaces gauge wheel.

The cross member No. D307 slides into the tractor frame over the handle bolts where it is quickly and easily bolted in place by running two nuts down on handle bolts. The yoke casting and tongue or pole can be quickly detached, merely by removing a cotter pin and lifting out the king bolt.

4 H.P. MODEL D4 DU-ALL (TOOL HOLDER PLATES REMOVED), WITH AIR TIRES, EQUIPPED WITH NO. SR316C SPRAYING OUTFIT AND FORD PARTS

The No. SR316C Spraying Outfit comes complete with a 50 gallon barrel with pressure gauge, two 15-foot leads of 3/8-inch 7-ply discharge hose, two nozzles, two 8-foot pipe extensions with level shutoffs and mechanical agitator. The Model "T" Ford Parts, which come at a small extra charge, consist of front axle, radius rod and front wheels (without tires). The No. SR316C Spraying Outfit makes splendid equipment for any Model SHAW DU-ALL Garden Tractor. It is just the thing for spraying fruit trees, vegetables, etc. It has ample pressure for doing thorough spraying. The operator can ride the machine and spray while the tractor is moving, or shut off the spray when the tractor is moving, just as he prefers. SHAW DU-ALL Garden Tractors equipped with engines of three or more horse-power handle the two nozzles nicely, but we recommend using only one nozzle for the 2 H.P. Model DU-ALLs if the tractor is traveling and spraying at the same time.

A REAL JOB OF SPRAYING WITH THE 3 H.P. DU-ALL AND NO. SR316C SPRAYING OUTFIT

This spraying outfit has ample pressure for doing a thorough job of spraying. It is a very satisfactory spraying rig and is ideal for spraying fruit trees, vegetables, etc. We use the celebrated Myers Sprayer.
5 H.P. TWIN MODEL 2D5 SHAW DU-ALL TRACTOR WITH DELUXE RIDING EQUIPMENT AND NO. C40 SINGLE ROW CORN AND COTTON PLANTER WITH FERTILIZER ATTACHMENT

The No. C40 Corn and Cotton Planter can be attached to the drawbar of the DeLuxe Riding Equipment by means of the No. CH7 Special Hitch. The No. C40 Planter is very efficient for planting corn and cotton in single rows. Comes with or without fertilizer attachment as desired.

5 H.P. MODEL 2D5 SHAW DU-ALL

doing an excellent job of harrowing with OEH5 Harrow. Tractor is equipped with 6.00 x 22 inch Air Tires, W60 Weights, OEH5 Harrow and DRAG DeLuxe Riding Equipment with 4.00 x 8 inch Air Tires. These machines do surprisingly large amounts of work with remarkable ease.

This kept up throughout the year. An application of lime to the soil before seeding will do much to prevent the development of disease organisms.

DISCING WITH 2B1012R RIDING DISCS, FIVE 12-INCH BLADES ON-A-SIDE

The No. 2B1012R Riding Discs may be used with 3, 4, or 5 H.P. SHAW DU-ALL Tractors equipped with either steel or air tires. They dis a swath of about 4 feet in width, and aid by the additional weight of the operator, penetrate deep into the soil, doing an excellent job. The depth of penetration may be regulated by means of the gauge wheels. We recommend the use of weights on the tractor when using the riding discs, and offer you the W40 or W60 weights for the wheels, or the CW80 weight for the front of the tractor, or both as you may require.

We offer other Riding Discs. See Fig. 2B showing 2B1012R discs with 4 blades on-a-side. We also furnish the No. 2B1016 16-inch Discs cultivator gangs (15 discs on a side), which are similar to the No. 2B1012R except heavier and have no seat, and attach directly to the drawbar. All our discs are reversible, so they may be turned to throw the soil in or out as desired. Our disc blades are the celebrated Galesburg brand. The frame is built of steel throughout and has rugged bearings, making it unusually durable.
SHAW DU-ALL PUSHING SNOW PLOW

Figure 106

Here's still another use for the SHAW DU-ALL Tractor. Heavy snow can be quickly cleaned from sidewalks, driveways, etc., by a snow plow hitched to the front of the SHAW DU-ALL. This does away with the back-breaking job of shoveling snow by hand, and is a very efficient outfit. Many DU-ALL owners rig up their own snow plows, or we can furnish a suitable snow plow with hitch—price on application.

FIGURE 107 BELOW SHOWS ASSEMBLING SHAW DU-ALL TRACTORS

SHAW DU-ALL factory buildings are of modern steel structure, the sides being entirely enclosed in steel sash windows, giving an abundance of daylight which aids greatly in building good tractors.

Only highest grade materials and first class workmanship are entered into the construction of our SHAW DU-ALL Tractors which help to make them the most popular tractors on the market today.

Figure 107

SHAW DU-ALL RUNS BELT MACHINERY

Latest Drop Center Type Tires with Inner Tubes and Latest Tread in popular brands such as Good-year and Firestone are now supplied.

Figure 108

4 H. P. MODEL SHAW DU-ALL TRACTOR

Equipped with No. 10D 10-Inch Discs and 7.50x18 Inch Air Tires with No. W60 Circular Weights. The No. W60 Weights are sometimes necessary when doing heavy work. With each pair of Circular Weights we supply a steel pipe so, when using the moldboard plow, one weight can be used in front of the tractor and the other weight on the left wheel (see Figure 42, Page 201).

FAMOUS GALESBURG DISC BLADES

Our disc blades are the famous Galesburg brand; they stand lots of abuse and are fully guaranteed. The brackets are built of steel throughout and have rugged bearings, making them unusually durable. The disc blades are reversible, so they may be turned to throw the soil in or out as desired. See page 21 for 12-inch Discs.

Figure 109

4 H. P. MODEL D4 PLANTING CORN WITH NO. C40 CORN AND COTTON PLANTER WITH FERTILIZER ATTACHMENT

The No. C40 Single Row Corn and Cotton Planter with Fertilizer Attachment for attaching to any model DU-ALL Tractor. It does splendid work planting corn and cotton, and is a very high grade efficient planter. Model D4 illustrated with 2-inch Pyramid Lugs—3-inch Pyramid Lugs are regular equipment.
SHAW DU-ALL DOES THOROUGH HARROWING

NO. 8T ACME HARRIOW WITH 8 COULTERS, 4 FEET WIDE WITH JIFFY HITCH FOR ATTACHING TO SHAW DU-ALL

We also furnish the No. 66 ACME Harrow, 3 feet wide with six coulters, and the No. 10T ACME Harrow, 5 feet wide, with ten coulters. These serpentine coulters move the soil first to the left, then to the right, thoroughly settling the soil and forming an excellent seedbed as shown in Figure 112.

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.

Figure 111

ACME Harrows also work well on DU-ALL with Steel Tires.

Figure 112

Below we show a close-up view of No. 8T ACME Harrow with 8 coulters.

SHAW DU-ALL WILL DO YOUR PLANTING

NO. 4D SINGLE ROW HILL AND DRILL SEEDER WITH NO. SH1 HITCH ATTACHED TO 3 H. P. MODEL D3 SHAW DU-ALL TRACTOR

The No. 4D Single Row Seeder handles seed from turnips to peas. Used singly or in gangs of two or more units with No. SH1 Single Row Hitch, No. SH2 Two Row Hitch which spaces rows approximately 12 to 40 inches apart, or No. SH3 Three Row Hitch which spaces rows approximately 12 to 20 inches apart, quoted on price list.

Figure 115

3 H. P. DU-ALL WITH THREE NO. 300A DRILL SEEDER UNITS WITH NO. SH3 HITCH

The No. 300A Drill Seeder will plant any seed from the smallest up to bush lima beans. Plants in continuous rows only, but plants all seeds evenly and accurately and covers them uniformly so that a perfect stand is obtained. There are three seeding plates with a total of 39 holes, giving ample adjustments for any variety of seed, plates quickly changed. Flow of seed can be instantly shut off by a convenient rod on the handle. Marker is quickly adjustable to mark rows up to 20 inches apart.

Figure 117

4 H. P. DU-ALL HARRIOWING WITH NO. 8T ACME HARROW

Jiffy Hitch permits quick adjustments for good work.

Figure 113

(See Figure 116)

The No. 300A Drill Seeder Unit can be used singly, or in gangs of two or three with the SHAW DU-ALL with the Special Hitches mentioned under Figure 115 above. One No. 320 Fertilizer Attachment can be used with each No. 300A Seeder Unit, which makes ideal equipment for seeding and fertilizing in one operation. The fertilizer is drilled in a furrow made by the seeder opening plow, covered and firmed. Or you can side dress one side each of two rows up to 14 inches apart, putting the fertilizer on top of the ground. Can be accurately regulated to sow from 100 to 1500 pounds of dry commercial fertilizer per acre (in 12-inch rows), or it will sow from 20 to 450 pounds of formaldehyde dust. It will apply formaldehyde dust directly on the seed as it is being planted. This is one of the best methods of controlling seed born diseases and damping off of seedlings.

4 H. P. MODEL D4 SHAW DU-ALL WITH AIR TIRES, WITH TWO NO. 300A DRILL SEEDER UNITS AND NO. SH2 HITCH, WITH TWO NO. 320 FERTILIZER ATTACHMENTS

Figure 116
3 H.P. MODEL D3 SHAW DU-ALL WITH AIR TIRES, EQUIPPED WITH NO. F15 15-INCH FURROWER

The gauge wheel is designed so that it can be bolted to the right-hand side of the tractor for general use, such as cultivating. But, when desired, it can be bolted to the left-hand side of the tractor, such as for furrowing; then it runs directly behind the furrower. Is adjustable to regulate the depth of the furrow.

FURROWERS WITH NO. S1A SPECIAL STANDARD

We can furnish the No. F10 10-Inch, No. F12 12-Inch and No. F15 15-Inch Furrowers which take the No. S1A Standard—See No. F15 Furrower and S1A Standard in Figure 119. The No. S1A Special Standard is adjustable so that the furrower may be set at different angles, which is desirable to get the best results. The angle at which the furrower sets may be changed in a jiffy.

NO. F20 20-INCH FURROWER WITH NO. S1A STANDARD

The No. F20 20-inch Furrower, shown with No. S1A Standard in Figure 121, has adjustable wings and a renewable point. The wings can be set to make narrow or wide furrows. The wings may be removed if desired and the body then makes a neat double plow, for opening sharp-bottomed furrows.

SPIKE TOOTH HARROW NO. H4

Be believe this is the best 4 foot width adjustable harrow made. Has three extra heavy steel “U” Bars to which 5/8 inch square High Carbon Steel teeth are attached by strong patented clips and “V” shaped malleable wedges which hold the teeth firmly in proper position. This feature permits quick and positive adjustment of any or all teeth to the desired depth. End Guard rail at each end of harrow and securely fastened to each “U” Bar. Lever adjustment to set angle of teeth. Built heavy and strong to do excellent work preparing seed beds. Comes complete with hitch for attaching to any Shaw Du-All tractor.

The H5 Spike Tooth Harrow, 5 foot width, is built like the H4 Harrow but is both wider and longer, having five tooth bars instead of three. See Figure 31 for additional information. Comes complete with hitch.

DOUBLE MOLDBOARD PLOW—NO. U8

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.

NO. ED32 EXTENSION TRACTION RIMS

For Hy-Wheel Shaw Du-Alls. Needed for extra heavy work, especially for fluffy or very sandy soils, as they give more traction.
5 H.P. MODEL D5 TRACTOR PULLING LEVELER AND SCRAPER

For building driveways, excavating for basements, cisterns, and for landscaping, the SHAW DU-ALL is being used very satisfactorily. The Model D5 Tractor has ample power for pulling both an ordinary horse-drawn leveler and scraper at the same time. Illustrated circular of SHAW DU-ALL Tractors doing odd jobs will be sent on request.

NO. WR7 WEED ROD FOR NOS. K8, K10, K12, S010 AND SP12 MOLDBOARD PLOWS

The No. WR7 Weed Rod aids wonderfully in helping to turn under tall weeds and trash when plowing. It is not included as regular equipment with the No. K8, No. K10, No. K12, No. S010 and No. SP12 Moldboard Plows, but comes at a small extra charge.

8-INCH NO. PD8 AND 10-INCH NO. PD10 POTATO DIGGERS

The SHAW Jiffy Hitch for 8, 10, 12-Inch plows, slightly different from the hitch illustrated at the left, works equally well with the potato diggers. The hitch is quickly changed from one to the other, therefore, you will need but one hitch. The No. PD8 Potato Digger is 8 inches wide at the bottom, and 18 inches wide across the rear tips of the potato fingers, and the corresponding dimensions of the No. PD10 are 10 and 20 inches. All models SHAW DU-ALL Tractors will pull this potato digger.

DIGGING POTATOES WITH 4 H.P. DU-ALL EQUIPPED WITH NO. PD10 POTATO DIGGER

The SHAW DU-ALL and the No. PD10 Potato Digger do a good job digging potatoes. The Potato Digger uses the same hitch as our Moldboard Plows, so if both the Potato Digger and plow are purchased with the DU-ALL, it is necessary to have only one Jiffy Hitch. For an illustration of the No. PD10 Potato Digger and Jiffy Hitch, see Figure 128 above.

CULTIVATING TOOLS

The 8-Inch and 10-Inch Cultivating Steels, the Turning Shovels, 7-Inch and 8-Inch Shovels, Hoe Steels and Beet Hoe Steels, Sweeps and Irrigation Steel shown on this plate can be used with the regular standards which we now furnish with the SHAW DU-ALL Tractors. The Furrowers require the No. S14 Special Standards, and the 6-Inch and 7-Inch Hillers require the No. U11A-12A Standards which you will find quoted on our price list. The Beet Steels are supplied complete with Special Standards which attach to the regular tool plates. Irrigation Steel can be used singly or in pairs on regular Pin Break Type Standards; however, for real heavy work, it can be used singly in connection with the S14 Standard.

The extra quality steel used in our cultivating tools has won for them a high reputation wherever used. Further successful experimentation 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 tools of the highest grade, designed to do an unusual variety of work and capable of suiting the most exacting persons or conditions. These tools are especially designed for use in heavy soils under adverse conditions and they will work in most difficult soils as well as under unfavorable conditions in a satisfactory manner.

TWO YEAR GUARANTEE

We agree to make good by repair or replacement within two years from date of invoice, any defect in material or workmanship of any SHAW Tractor, Power Mower, Tools, or equipment, provided the defective part is delivered to us, transportation prepaid. This guarantee is your positive assurance of satisfaction.

SHAW MANUFACTURING COMPANY
TRACTOR OF "100 USES"
RUNS ALL DAY FOR 33¢

My SHAW is the best all around worker I ever had - and it costs only 3¢ an hour to run.

"Look, Dad I can run it easily."

"The New POWER TURN enables it to turn in its tracks. No lifting or pushing."

"Its improved tool control gives tools a wide range of movement, and you can walk or ride."

SHAW MANUFACTURING COMPANY
Galesburg, Kans., Columbus, Ohio, New York, N. Y., Chicago, Ill.