GARDEN TRACTORS—WHAT ARE THEY?

Years ago Garden Tractors were quite small and used almost entirely for cultivating small tracts of land. Today the word “Garden” does not indicate the size of tractor, neither does a carrot indicate the size of garden from which it came for they are grown in millions of back yards as well as in larger gardens or fields of a hundred acres or more. In many so called back-yard gardens, there is only room to operate hand tools, hence the smallest tractors are too large. Then, there are gardens or fields of several hundred acres growing garden products for which our largest tractors are too small to be practical for heavier work because a person can accomplish more with a larger farm tractor. Yes, and there are a few “Gardens” or fields of several thousand acres growing vegetables—The Imperial Valley for example—where the largest farm tractors are used to good advantage. There is a wide range between the hand tool and the heavy farm tractor jobs; this is where our tractors come in. Also, on large farms

SHAW DU-ALL Tractors are being used economically to replace one or two horses.

The SHAW DU-ALL Tractors are the result of thirty-seven years experience in building gasoline engines, tractors and other farm equipment. They have all the stamina, durability, convenience and economy of operation that would be expected after many years of progress.

They have a new attractiveness, a new standard of powerful, trouble-free performance and a new measure of value.

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 for comparison in the Garden or Small Farm Tractor line. In the SHAW DU-ALL line of tractors, you have several models from which to choose in both walking and riding types. 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. We have perfected the Deluxe Riding Equipment which converts any Walking Type SHAW DU-ALL into a riding tractor, and it operates equally well plowing, cultivating, harrowing, mowing etc. It turns in 5¼-foot radius, pivoting on one wheel.

The MASTER SHAW DU-ALL Riding Tractors as well as walking type tractors have become very popular. Now the economy of mass production makes it possible for these tractors to be sold at extremely low prices. The MASTER SHAW DU-ALL is available with 5 and 8 H.P. engines. The 5 H.P. is furnished with either single or twin cylinder engine. The MASTER SHAW DU-ALL because of its versatility is a “Master Farmer”, and is replacing the last horse or team on many farms.

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SHAW MANUFACTURING COMPANY
GALESBURG, KANSAS
5812 Magnolia Ave., Chicago, Illinois
668 North Fourth St., Columbus, Ohio
130 West 42 St., New York, N. Y.
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 13, 14, and 15 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 13 shows the hand control grips and cultivating tools in normal position, tool holder plates connected together by means of the connecting arch.

Figure 14 shows hand control grips turned with the lower end to the right which moves the cultivating tools to the right, while Figure 15 shows the cultivating tools moved to the left. The SHAW Patented Tool Control enables rows with zig-zag hills to be cultivated with ease, for it enables the cultivating steels to get up as close to or as far from the plants as desired.

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 16 with small DU-ALL "cross cultivating" crooked rows of corn that are not checked evenly (tractor equipped with No. P55 Plant Shields for protecting the small plants). Cultivating tool holder plates can be held the desired distance apart by the connecting arch. There is a series of holes for changing this spacing.

Figure 17 shows a rear view of SHAW 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 engages the power-turn brake on that side and the tractor turns to right or left, depending on the handle pulled. The more you pull the slower the wheel turns or stops wheel entirely 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 SHAW DU-ALL Tractor approaching end of row.

...
Features of the SHAW DU-ALL TRACTOR

Numbers below correspond to reference numbers on above page.

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** notched 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-free 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 1/2" wide. The brake bands are lined with Raybestos brand of woven asbestos and copper wire 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 baffled 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. **BREAK PINS** hardwood pins in standards break when cultivating tools strike firm rock, root, etc. Adjustable to change angle of cultivator steels and other tools. Wood break pin easily renewed.

**MULTIPLE ROW CULTIVATING EQUIPMENT.**

The No. 32C Cultivator Equipment illustrated on the tractor in Fig. 27 is optional at no extra cost if preferred instead of our regular cultivating equipment.
SPECIFICATIONS OF SHAW DU-ALL TRACTORS (WALKING TYPE)

HANDLES: Angle steel 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 slight turns same as an ordinary wheel hoe, but the shorter turns are made with power turn, pulling left handle sets left brake and turns left, right handle turns right. Tools are steered independently. See under TOOL CONTROL below.

WIDTH: Power Turn Models 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—Hy-Wheel Models approximately 42 inches.

HEIGHT OF TRACTION WHEELS—Hy-Wheel Models approximately 32 inches over tires, 38 inches over "pyramid" shape lugs, 35 inches over 6.00x22 Inch Air Tires.

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

PLANT CLEARANCE: 16 inches when 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 turning the handle grips.

SPEED: Variable; 2, 3, and 4 H.P. Tractors, about 1/4 to 4 miles per hour; 5 H.P. Tractor, about 1/4 to more than 4 miles per hour. Six speeds giving the tractor from 1/8 up to 15 miles per hour may be had 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 2 1/4 to 6 hours, according to the nature of the work, condition of soil etc.

DRAWBAR PULL: Approximately as follows but depending on condition of the soil etc. 2 H.P. Engine, 1 1/4 H.P.; 3 H.P. Engine, 1 3/4 H.P.; 4 H.P. Engine, 2 1/4 H.P.; 5 H.P. Engine, 3-1/8 H.P.

TRANSMISSION: Selective Sliding Spur Gear Shift Automotive Type, alloy steel, forged, cut and heat treated. Three speeds forward and a reverse.

BEARINGS: Equipped with New Departure and other high grade ball and roller bearings.

GEARS: All gears are machine cut and heat treated to give long life. All gears except bevelled differential gears, are spur type.

CLUTCH: All models have a V-belt drive which serves as a very efficient clutch. Clutch control is hand operated.

COLOR: Green and Black.

WEIGHT OF GEAR SHIFT TRACTORS, NET: 2 H.P. Model D2 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 D25, Twin Cylinder Tractor, approximately 625 pounds. When equipped with wheel weights add their wt. to the above figures.

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 carbureter insuring quick starting and uniform running.

COOLING: By strong 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. babbit lined—4 and 5 H.P. have ball bearing on power takeoff side.

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


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

CONNECTING ROD: Aluminum alloy, 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. 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., 3 pint capacity; 3, 4, and 5 H.P. 5 pint capacity.

FINISH: Heat resisting black enamel.

POWER TAKE OFF PULLEY: 2 H.P., approximately 5-1/4 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.
GENERAL SPECIFICATIONS OF STOVER TWIN CYLINDER 5 H.P. ENGINE

BORE: 2-1/8".
STROKE: 2-3/4".
PISTON DISPLACEMENT: 27 Cu. inches.
RECOMMENDED SPEED: 2000 to 2600 R.P.M.
TYPE: Vertical, 4-cycle, twin cylinder, L-Head, air cooled.
IGNITION: Wico High Tension Magneto with impulse coupling.
SPARK PLUG: 14 mm., 2 used.
FLYWHEEL: 9-1/2" diameter, blows powerful current of air for cooling.
LUBRICATION: Constant level splash with submerged pump.
CARBURETOR: Specially designed automobile type.

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 or near steering permits the operator to regulate the governor adjustment instantly when desired.

Figure 23

GOVERNOR: Horizontal enclosed centrifugal automatically lubricated, with speed adjustment within easy reach of operator.
CRANKSHAFT: Dia. 1-3/16", drop forged high carbon steel.
BEARINGS: 2 New Departure Ball Bearings on crankshaft.
CAMSHAFT: Drop forged. Cams forged integral, hardened and ground.
TIMING GEARS: Helical cut.
CONNECTING ROD: Aluminum alloy.
PISTON: Aluminum alloy, ground to size.
PISTON RINGS: (4) Three, plain compression, one oil control.
PISTON PIN: Diameter, 5/8".
CRANK PIN BEARINGS: Dia. 1-1/4 in., length 1-1/4".
VALVES: Alloy steel, inserts on exhaust valves.
VALVE TAPPETS: Mushroom type.
CYLINDER AND CRANKCASE: Close-grained grey iron.
CYLINDER HEAD: Removable, aluminum alloy, with cored air passages.
AIR CLEANER: Efficient, oil bath type.
FUEL TANK: 2-1/2 gallon 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.

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.

Figure 24 and Figure 25 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 bottom 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, and additional weight on the front of the tractor.

SHAW DU-ALL Tractors are out-pulling tractors of considerably higher horse-power rating.

Because over 37 years experience in selecting proper materials, heat-treating, and a generous quantity of New Departure and other high grade friction reducing ball and roller bearings, are built into the SHAW DU-ALL Tractor. 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 out 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.

The SHAW DU-ALL Tractor is built with the express purpose of doing the work not only of men but also the work of horses and mules, and in order to be successful it must stand up under hard work not only month after month, but for many years at small cost for operation and maintenance. Our Guarantee (see inside back cover) is your further assurance of satisfaction.
The scene to left 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 throttled down; or, the No. DRA6 De-Luxe Riding Equipment can be attached so that the operator can ride.

**MULIPLE ROW CULTIVATING EQUIPMENT SHOWN HERE ON 5 H.P. TRACTOR**

5 H.P. 2DS Twin Cylinder SHAW DU-ALL Tractor (below) with 6.00x22 inch Air Tires, W60 Weights, DRA6 DE LUXE 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 for commercial truck growers, etc.

Commercial truck growers find the SHAW DU-ALL Tractors very practical for seedings and cultivating one or more rows at a time. The adjustable tread makes the DU-ALL very desirable for operation in fields having rows of various widths. Its high clearance (approximately 16 inches under the axle when equipped with 6.00 x 22 inch Air Tires) enables it to pass over rather tall plants. For single row work, our regular cultivating equipment is usually preferred but for multiple row cultivation, the No. 32C Cultivating Equipment with lateral control is very desirable.

**SHAW DU-ALL 5 H.P. TWIN WITH DELUXE RIDING EQUIPMENT NO. DRA6**

5 H.P. Model 2DS Twin Cylinder DU-ALL with Air Tires, 10" Plow and Riding Equipment. The right rear wheel spindle can be adjusted to maintain level ride for operator. When plowing, the right-hand tractor wheel runs in the furrow and automatically steers the Tractor with DeLuxe Riding Equipment, thus making plowing an easy job; it is also well liked for cultivating, mowing and other work. In this illustration, the Model 2DS Twin SHAW DU-ALL is equipped with 6.00x22 inch Air Tires (35 inches outside diameter), and the DeLuxe Riding Equipment is equipped with 4.00x8 inch (16 inch outside diameter) Air Tires. The Tractor with DeLuxe Riding Equipment can also be furnished with steel wheels, as shown on price list. The 5 H.P. Model 2DS Twin SHAW DU-ALL has reserve power and, under favorable conditions, handles a 12-inch plow nicely; however we recommend using a 10-inch plow and running faster.

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

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. The No. 2B812R cuts about 3½ feet.

**2B1012R RIDING DISCS**

The No. 2B1012R Riding Discs have ten 12-inch blades five-on-a-side and may be used with 3, 4, or 5 H.P. SHAW DU-ALL Tractors equipped with either steel or air tires, but we recommend air tires because they save power and fuel. They disc a swath of about 4 feet in width, and aided 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 two gauge wheels. We recommend the use of weights on the tractor when using the riding discs.
In a number of tests, made under about average conditions with steel tires, we find our present line of Shaw Du-All Tractors will do moldboard plowing of the usual depth 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 1½ Acres in 10 Hours
3 H. P. Du-All, more than 2½ 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
8 H. P. Du-All, about 6 acres in 10 Hours

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

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, or efficiency of 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 which are made 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.

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.

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 are 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 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 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.

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 enables tall 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-Alls, and is fine for plowing, seeding, cultivating, mowing, etc., as well as harrowing. The tractor here is shown with 525x21 Inch Air Tires and No. W60 Weights. Weights are sometimes needed for additional traction when doing heavy work.
DISCING CORN
WITH 4 H.P. SHAW
DU-ALL AND NO.
18612 12-INCH DISC
CULTIVATOR GANGS

Discs are excellent for cultivating specially where there is considerable trash on the ground. When the corn becomes too tall to run the tractor astride the plants, it can be run between the rows.

Figure 35

NO. DRA6 DE LUXE RIDING EQUIPMENT

This illustration shows the No. DRA6 De Luxe Riding Equipment with 4.00x8 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.

Figure 36

NO. RA2A RIDING ATTACHMENT

Is built similar to the No. DRA6 De Luxe (shown above) 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. Shown with 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. RA2 Riding Attachment and is supplied instead of the No. RA2.

Figure 37
MORE ACRES . . . LESS LABOR

A SHAW DU-ALL takes all the back-breaking labor out of plowing. With it you can follow a 10-inch plow all day as fast as you care to walk knowing there’s no need to spare the team for another big day tomorrow. Fast plowing turns under weeds and grass better than is possible at a slow walk. You may ride. See De Luxe Equipment Plate E.

5 H.P., Model 5D SHAW DU-ALL with 10-inch No. 910 moldboard plow and engine hood and Grille No. HG2.
PLATE B
FOR TOUGH GOING IN TIGHT PLACES

Your SHAW DU-ALL equipped with 3½-foot cutter bar gives plenty of speed and power to cut heavy growths and is easy to handle in close quarters. Because the cutting knife is power driven instead of depending on traction it is possible to mow easily even when the ground is wet and slippery as the wheels don't spin easily because they have but little to do.

3 H.P. Model D3 SHAW DU-ALL and 3½-foot No. CB42 cutter bar with Lespedeza Guards.
PLATE C

WALKING TYPE DU-ALL

With SHAW DU-ALL and regular cultivating equipment you can do lots more work than with a team and at less expense per acre, too. The DU-ALL can be operated for as little as 3½ cents per hour, asks for no wages and requires nothing but ordinary mechanical care. You’ll find that you finish your work faster and make more money than with a team.

5 H.P. Twin Cylinder Model No. 2D5 SHAW DU-ALL with 2-inch regular cultivator steels.
PLATE D

HIGH ARCH DU-ALL

The High Arch Master SHAW DU-ALL has 24-inch plant clearance and may run astride rows of corn, etc., until up about 40 inches or more in height, depending on nature of the crop. All Master SHAW Tractors come complete with adjustable, swinging type drawbar and are used a great deal for hauling. Provision is made for attaching moldboard plow, cultivator, cutter bar attachments, etc.

8 H.P. Model HY8 High Arch Master SHAW DU-ALL. Shown above with 7.50x22" rear tires which can be furnished at small extra charge; 6.00x22" rear tires and 4.00x15" front tires are standard equipment.
PLATE E

DE LUXE RIDING EQUIPMENT

De Luxe riding equipment, with automatic steering control, has been designed for all walking type SHAW DU-ALLS and is especially adapted to our 3, 4, and 5 H.P. tractors. The easy right and left pull-type of steering control, sensitive throttle control and easy-to-reach gear shift and tool controls take all the strain and work out of farming. Women and boys handle DU-ALLS easily.

5 H.P. Model D5 SHAW DU-ALL with 10" Plow, DRAG De Luxe riding equipment and HG2 Engine Hood and Grille. The front of hood or "Grille" is similar to that in Plate D to the left but is smaller.
PLATE F

FOR FASTER AND CLOSER MOWING

The SHAW DU-ALL equipped with riding attachment and 5-foot power driven cutter bar will mow day after day at a speed that will surprise you. In cutting hay, time is an important factor and you’ll find the DU-ALL ready to go on long continuous runs with only occasional stops for sharpening knife and oiling. Low operating and maintenance costs make your days profitable, too. Take your choice of cutter bars with regular or lespedeza guards. Regular guards shown.

5 H.P. Twin Cylinder Model R105 MASTER SHAW DU-ALL equipped with 5-foot No. CB60 power cutter bar.
SHAW DU-ALLS are built by men who really know farming. The 16-inch plant clearance permits you to cultivate a stride the rows until corn, etc., is 30 to 36 inches high; then, your DU-ALL will run between rows to clean up laid-by fields. Too, you can turn your SHAW in its tracks, under its own power and cultivate adjoining rows - right or left. Front tools controlled as on Model HY6, described on page 28.

8 H.P. Model RDS MASTER SHAW DU-ALL and Cultivating Equipment No. 32CR with Spring trip standards.
**Specifications of SHAW DU-ALL Riding Tractors**

**MASTER (16" Plant Clearance)**

**TRANSMISSION:** Selective Sliding Spur Gear Automotive Type, alloy steel, forged, cut and heat treated. Three speeds forward and a reverse.

**AXLE:** Rear: Round Alloy Steel, 1-3/8" Diameter x 34" long; Front, 1-1/2" square open heath steel.

**BRAKES:** Brake Drums 7 1/4" x 1 1/2". Bands lined with Raybestos woven asbestos linings which last for years. Hand operated. Foot lever controls can be supplied at small extra cost quoted on price list.

**REAR WHEEL TREAD:** Adjustable, from approximately 24 to 36 inches. Front wheel tread is fixed. We can supply adjustable front wheel tread on special order at small additional charge. Rear wheel tracks cover front wheel tracks except when rear wheels are set for widest adjustment.

**WHEELBASE:** 58 inches.

**TURNING RADIUS:** 5 1/2 feet.

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

**BEARINGS:** Equipped with New Departure and other high grade ball and roller bearings.

**DIMENSIONS:** Overall width, 34 inches. Overall length, 87 inches from back of rear to front of front tires. Height, to top of hood 47 inches.

**FINAL DRIVE:** Enclosed gear runs in oil.

**CLUTCH:** V-Belt type. Foot operated sliding sheave.

**COLOR:** Green enamel.

**WEIGHT:** RD5, 1080 pounds; R2DS, 1095 pounds; RD8, 1100 pounds.

**SPECIFICATIONS WHICH APPLY TO BOTH ABOVE MODELS.**

**ENGINE:** For specifications, see Figure 23 for Stover Twin Cylinder Engine, Figure 22 for Briggs and Stratton Single Cylinder Engine and Figures 38 and 38A for Wisconsin Single Cylinder Engine.

**POWER TAKE OFF PULLEY:** No. PT3, approximately 6" diameter with 3" face, designed to fit crankshaft of Models RD5 and R2DS Tractors, and transmission shaft on any MASTER SHAW DU-ALL Riding Tractor that has 16" plant clearance. No. PT6, approximately 4 1/4" diameter with 4 1/2" face, designed to fit crankshaft of Wisconsin Engines on Models RD6, RD8 and fits shaft extension on Model HY8.

**TIRES:** 6.00x22" rear Air Tires 35" overall diameter; 7.50x22" Rear Tires are optional at extra cost; 4.00x15" Front Air Tires 24" overall diameter.

**CAPACITY:** 5 H.P. handles load ordinarily pulled by one good horse or light team. 8 H.P. daily work capacity equal to or greater than that of two good horses on account of having faster speed and doesn’t have to stop to rest.

**SPEEDS:** With engine running at normal speed—5 H.P. 1 1/4 to 4 M.P.H.; 8 H.P. 2 1/4 to about 7 M.P.H. Speeds can be varied with hand throttle to run slower or faster than the speeds given above.

**High Arch Master (24" Plant Clearance)**

**TRANSMISSION:** Selective Sliding Gear Synchronous Automotive Type, alloy steel, forged, cut and heat treated. Three speeds forward and a reverse.

**AXLE:** Rear: two round alloy stub rear axle shafts mounted in strong iron housings and supported by Timken Roller Bearings. Width over outer ends of axle shafts, 5 1/2 inches. Front, 1 1/2" square open heath steel.

**BRAKES:** Brake Drums 7 1/4" x 1 1/2". Bands lined with Raybestos woven asbestos linings which last for years. Foot operated.

**REAR WHEEL TREAD:** Adjustable, from approximately 38 to 52 in. Front wheel tread is fixed. We can supply adjustable front wheel tread on special order at small additional charge. Rear wheel tracks cover front wheel tracks except when rear wheels are set for widest tread.

**WHEELBASE:** 58 inches.

**TURNING RADIUS:** 6 1/2 feet.

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

**BEARINGS:** New Departure, Timken and other high grade ball and roller bearings.

**DIMENSIONS:** Overall width, 51 1/2 inches. Overall length, 87 inches from back of rear to front of front tire. Height, to top of hood, 50 inches.

**FINAL DRIVE:** Dual gears, run in oil.

**CLUTCH:** Single dry plate, automotive type, foot operated.

**COLOR:** Green enamel.

**WEIGHT:** HY8, 1350 pounds.
SPECIFICATIONS — 6 AND 8 H.P. WISCONSIN ENGINES

FUEL CAPACITY: 6 H. P. 6 quart, 8 H. P. 9 quart.
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 all 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 38-45. Baume test at an extra charge, see price list.
LUBRICATION: Pump circulated splash system. Oil pump is in engine base and is operated from the cam-shaft. Capacity 47/4 pt.
TYPE: 4 Cylinder, Air Cooled.
BORE: 6 H. P. 3 1/2"—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 cast 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.

ENGINE FOR MODEL HY8 HAS SYNCHRONIZED GEARS AND SHAFT DRIVE

The Power Plant (figure 38A) used on High Arch Master Shaw DU-ALL Tractors Model HY8 consists of Wisconsin 8 H. P. Engine with the same specifications as given above; it is equipped with a single dry plate Automotive type clutch and a transmission giving three speeds forward and a reverse.

8 H.P. MODEL HY8 TRACTOR WITH CULTIVATOR NO. 45CR WITH SPRING TRIP STANDARDS

Showed with four rear shovels size 4x8 inch and two front shovels size 2x8 inch.
The spring trip standards are especially desirable where there are many rocks, roots, or other hidden obstructions in the soil. Cultivating equipment is regularly furnished with pin break type standards. Spring trip standards come at a small additional charge.

8 H.P. MODEL HY8 HIGH ARCH MASTER SHAW DU-ALL TRACTOR WITH CULTIVATOR NO. 45CR WITH SPRING TRIP AND SIZE POINT SHOVELS SIZE SIX INCH

Cultivator lift lever is provided with spring with adjustable tension to help lift cultivator tools. Note the high clearance under tractor and cultivator equipment. Also note cultivator is arranged to plow out tractor tracks, leaving soil unpacked. Tool Control is described on page 28.

8 H.P. MASTER SHAW DU-ALL CULTIVATING TOMATOES

Master Tractors, Model HY8, are versatile and are adapted to a great variety of jobs. Their 24-inch clearance enables them to run astride rather tall plants. They will cultivate corn, running astride the rows, up to about 40-inches high, depending on condition of crop, brittleness, etc. However, the regular tractor tread is about 42 inches when rear wheels are set for narrowest tread, and of course will not run between corn and other row crops spaced 42 inches like the Master with 16-inch plant clearance and narrow tread does.
HY8 HIGH ARCH MASTER WITH DRAWBAR

Foot operated clutch pedal “A” controls dry plate clutch. Gear shift lever “B” permits instant selection from three forward speeds and one reverse speeds. “C” throttle control located on steering column permits variations of engine speed. “D” and “E” pedals control front cultivating tools. Pushing foot pedal “D” moves front cultivators to the left, pedal “E” moves them to the right. Pressing both pedals “D” and “E” spreads front cultivating tools for passing wide hills. When pedals are released cultivating tools return to normal position, predetermined by setting adjustable spring stop which gauges distance between tools. The tractor steers easily and the cultivating tools are usually controlled by steering the tractor; however the pedal controls for front cultivating tools, give operator absolute control at all times—even when cultivating rows where the plants or hills are not uniform. Connecting rods for controlling front cultivator beams, hook at “F” and “G.”

Foot pedal “H” controls the brake for left traction wheel and “I” controls brake on right wheel; the brakes aid on hills and in stopping as well as in short turning.

8 H.P. MODEL HY8 MASTER SHAW DU-ALL RIDING TRACTOR PULLS 12-INCH NO. K12M MOLDBORD PLOW—REAR WHEELS OF TRACTOR SET OUT FOR WIDE TREAD

When the soil is in favorable condition for plowing, the Model HY8 Master SHAW DU-ALL will pull a 12-inch plow in second gear, the usual plowing gear, even though the ground is quite hilly. However, in ground that is difficult to work, we recommend a 10-inch plow and it can be pulled in high gear in ground that is easily plowed.

The Master SHAW DU-ALL Tractors are equipped with air tires, and the drawbar horsepower is about 80% of the rated engine horsepower, which in this case would be about 6 H.P. on the drawbar for the 8 H.P. tractor.

SHOWING THE CLUTCH, TRANSMISSION, DIFFERENTIAL AND FINAL DRIVE GEARS FOR HIGH ARCH MODEL NO. HY8 MASTER SHAW DU-ALL

The above illustrates the transmission from the clutch to the rear axle shafts inclusive, all of very rugged construction. The clutch is automotive type, single steel disc. Back of the steel disc is the pressure plate, faced with asbestos composition. This plate is provided with springs that normally keep the clutch engaged by holding the pressure plate and the steel disc against another asbestos composition facing in front of the steel disc. The transmission gears just back of the clutch are of the synchronous type (to make shifting easy) and give three speeds forward and a reverse, and have two New Departure ball and two precision roller bearings. Most of the roller bearings and gears interchange with Ford Model A and V8 parts. It is provided with a universal joint just back of the three-speed gear case. The drive shaft has two Timken tapered bearings at the rear end and a roller bearing at the front end. The differential and jackshaft assembly is mounted on two Timken tapered bearings and two roller bearings. It has dual final drive gears, and each of the two final drive gears and axle shafts is mounted on two Timken tapered bearings. All gears run in grease and oil tight cases, and are provided with oil seals to prevent the oil or grease from leaking out around the shafts. Each rear axle spindle has a brake drum (not pictured) between the gear case and the traction wheel. The final drive ring gears are tightly fitted to the iron center and secured by rivets to make doubly sure that they will never wear loose. The axle shafts are securely fastened to the gear case by two keys, one Woodruff and one drift key. To give a factor of safety the gearing and bearings are all over-size, and cut from alloy steel, heat treated and tempered for long life.

The traction wheels are held securely by a key and two clamping bolts in the hubs, making it very easy to change them for adjusting tread width.

TRAILER TYPE HARDIE SPRAYING ATTACHMENT

Sprayer No. S99X6 shown with 4.00x18” Air Tires, 1 H.P. Briggs & Stratton Engine, and 25 feet of ½” hose with No. S201 Gun. Shown attached to Model RD8 Tractor. Sprayer also offered with driving connections to take power from tractor engine instead of using separate engine to drive sprayer pump. Sprayer has 50 gallon tank, two cylinder piston type pump, mechanical agitator, pressure gauge, and automatic by-pass valve which maintains 300 lbs. working pressure and has overflow to storage tank. Sprayer dimensions—overall length 63”, width 34”, height 40”, tread 28”, weight without engine 410 lbs. Write us about other models.
8 H. P. MODEL RD8 AND DISC HARROW

Figure 46

Master SHAW DU-ALL and T2B16 Tandem Disc Harrow does a good job of discing; although pictured above with 20 discs they are carried in stock with 4 gangs of 4 celebrated Galesburg Discs 16" diam. and the harrow cuts 4 feet.

We also build to order the Tandem Disc Harrow No. T2B20 (see picture) 20 Discs, 5 in each gang, at small extra cost; this Harrow cuts 5 ft.

Both of these Tandem Disc Harrows are built of steel throughout and have rugged bearings, making them unusually durable.

5 H. P. MODEL RD5 MASTER WITH 2B1016 DISC HARROW

Illustration to the right shows the 5 H. P. RD5 Master SHAW DU-ALL pulling No. 2B1016 16-inch Disc Gang (5 discs on a side), which attach directly to the drawbar. The 5 H. P. Master DU-ALL runs along on high, pulling this disc, as though it wanted to get the job done in a hurry. Considerable larger discs can be pulled in second gear. These 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. Shown here without engine hood.

SHAW DU-ALL DOES HIGHWAY MOWING

Figure 48

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 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.

UNDER-SERRATED SECTIONS

See Figures 49 and 50

The under-serrated mower knife sections (Figures 49 and 50) are well liked and becoming popular in some sections. We furnish either the under-serrated or the smooth knives for our cutter bar. These may be sharpened by grinding same as smooth knife sections.

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

Figure 51

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 Deluxe Riding Equipment when using 5-foot cutter bar.
SHAW DU-ALL IS ASSEMBLED WITH CARE

5 H.P. MODEL D5 SHAW DU-ALL WITH 7.50x18 INCH AIR TIRES, CB42 CUTTER BAR ATTACHMENT AND DRA6 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 large 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.

MASTER SHAW DU-ALL WITH NO. CB60M 5 FT. CUTTER BAR ATTACHMENT

Illustration to the right shows Master SHAW DU-ALL Tractor equipped with 5 ft. No. CB60M Cutter Bar mowing Sudan Grass. The SHAW Cutter Bars will cut all hay crops, weeds, etc.; the ability of the Master SHAW DU-ALL to make short turns comes in handy. The cutting knife has three different speed ratios and enables the machine to do all kinds of mowing, whether the cutting is light or heavy. The knife is driven from the engine by a V-belt. The No. CB42M 3½ or CM60M 5 ft. Cutter Bar can be used in connection with HY5 or any other Master tractor. Your choice of regular or Lespedeza guards.

SHAW DU-ALL RUNS BELT MACHINERY

4 H.P. MODEL D4 DU-ALL WITH HR8 8 FOOT IMPROVED SELF DUMP RAKE, CAN ALSO SUPPLY 10 FOOT

Our Sulkys Rakes are outstanding because of their rugged simplicity, their long life, and their easy, effective operation. They stay locked when raking and they dump immediately when tripped. These Rakes handle heavy hay with ease, dumping clean and quickly. The teeth 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.

STRONG FORGED SPOKE WHEELS. The wheels regularly used on these Rakes are 54" diameter with 2" 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.

WIDTH. We have two sizes, No. HR8 with 26 teeth, 25/64" diameter of fine spring steel, rakes 8 feet or two swaths cut by 3½ 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 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.

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

Doing an excellent job of harrowing with OEH5 Harrow, Tractor is equipped with 6.00x22 inch Air Tires, W60 Weights, OEH5 Harrow and DRA6 DeLuxe Riding Equipment with 4.00 x 8 inch Air Tires. These machines do surprisingly large amounts of work with remarkable ease.

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

We also furnish the No. G6 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, and then to the right, thoroughly settling the soil and forming an excellent seedbed. The back ends of the left half of the coulters turn to the left instead of all turning to the right as shown, and the right half turn right.

4 H.P. MODEL D4 SHAW DU-ALL SAWING WOOD

Figure below shows the No. 705 Saw Frame with 22-inch Saw Blade No. CS22, being operated by a 4 H.P. Tractor. It keeps two men busy feeding the saw when the DU-ALL furnishes the power.

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

Figure 59

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.

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 60

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 59 above. One No. 320 Fertilizer Attachment can be used with each No. 300A Seeder Unit, which makes ideal equipment for seedling 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.

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

Figure 61

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 out rows up to 20 inches apart.
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. SIA SPECIAL STANDARD

We can furnish the No. F10 10-Inch, No. F12 12-Inch and No. F15 15-Inch Furrowers which take the No. SIA Special Standard—See No. F15 Furrower and SIA Standard in Figure 63. The No. SIA 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. SIA STANDARD

The No. F20 20-inch Furrower, shown with No. SIA Standard in Figure 65, 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.

FiguRE 64

Figure 64 shows No. F20 20-Inch Furrower throwing up ridges.

FIGURE 120 BELOW SHOWS NO. F20 20-INCH FURROWER THROWING UP RIDGES

The SHAW patented Tool Control may be used when the Furrower is used with the No. SIA Special Standard which enables the operator to make straight furrows and ridges.

Figure 65

Figure 65 shows No. F20 20-Inch Furrower with No. SIA Standard.

Figure 66

2 H.P. MODEL D2 SHAW DU-ALL TRACTOR WITH 5.25 X 21 INCH AIR TIRES, EQUIPPED WITH NO. OEH5 SPIKE TOOTH HARROW

High grade, adjustable, open end flexible Spike Tooth Harrow, 5 foot width with three heavy “U” Bars to which 9/16 inch square High Carbon Steel Teeth are attached by strong patented clip and “V” shaped malleable wedge that holds the tooth firmly in proper position. Wedge will not come out until the tooth has been entirely removed from the clip. Teeth can be set to cut at any angle by loosening one bolt.

Also we furnish No. OEH4 Spike Tooth Harrow same as above except 4 foot width.

Figure 67

SPIKE TOOTH HARROW NO. H4

We 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. Comes complete with hitch.

Figure 68

DOUBLE MOLDBOARD PLOW—NO. US

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.

Figure 69

NO. ED32 EXTENSION TRACTION RIMS

For Hy-Wheel SHAW DU-ALLS. Needed for extra heavy work, especially for loose or very sandy soils, as they give more traction.
**E30 30-INCH LAWN MOWER**

Illustrated with 3 H.P. DU-ALL, but may be used with any SHAW DU-ALL Garden Tractor. Does excellent mowing, turns short and mows close around trees, etc. We also offer No. E33 SHAW Patented Jiffy Hitch Adapter for ordinary hand lawn mowers up to 30-inch. 21-inch and 29-inch SHAW Motor Mowers are excellent for parks, cemeteries, large lawns, etc. Circulator on request.

**Figure 70**

*NO WR7 WEED ROD FOR MOLDBOARD PLOWS*

The No. WR7 Weed Rod aids wonderfully in helping to turn under tall weeds and trash when plowing. Comes at a small extra charge.

**Figure 71**

**8-INCH NO. PDB AND 10-INCH NO. PD10 POTATO DIGGERS**

The SHAW Jiffy Hitch for 8, 10, or 12-Inch plows 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. PDB Potato Digger is 8 inches wide at the bottom, and 18 inches wide across the rear tip 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 these potato diggers. Potato Digger for Master Tractor is like PD10 except has long beam and uses Master Tractor Plow Hitch.

**Figure 72**

**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 72 above.

**Figure 73**

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**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 Furrows require the No. S1A 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 S1A 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.

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**TWO YEAR GUARANTEE**

We agree to make good by repair or replacement within two years from date of purchase, any defect in material or workmanship of any SHAW Tractor, Power Mower, Tools, or equipment, provided the defective part is delivered to place of purchase transportation prepaid.

**SHAW MANUFACTURING COMPANY**
Why not do all the Du-All way?

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.