

CHAPTER XXV

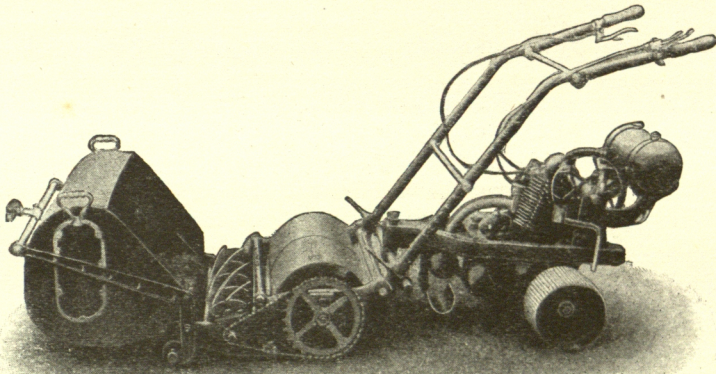
MOWING MACHINES, DESCRIPTION AND PRICES

Rendle Motor Mower and Roller Attachment—Motor Mowers—Dennis Motor Mowers—Ransomes Motor Mowers—Shanks Motor Mowers—Mowing Machines, Roller Type, J.P. Super, Ransomes Automaton and Shanks Caledonia, 12 to 24 inch Cut—High Side Wheel Type, Ransomes New Empire and Shanks Talisman, 13 to 19 inch Cut—Horse Machines, Roller Type, Ransomes and Shanks, 24 to 42 inch Cut—Horse Machines, High Side Wheel Type, Ransomes Ideal and Shanks Triumph, 32 to 36 inch Cut—Triple Gang Type, Ransomes Triple and Shanks Alliance, 84 inch Cut—Quintuple Gang Type, 138 inch Cut.

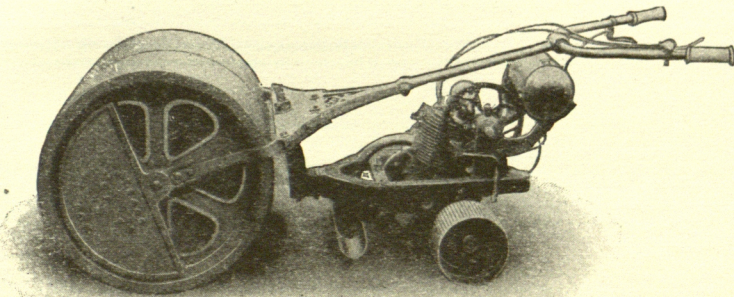
“Rendle” Motor Mower and Roller Attachment

- | | |
|----------------------------|--|
| 1. Frame | One piece cast iron, very strong. |
| 2. Type of engine | Two-stroke, three-port “Villiers.” |
| 3. Cooling | Air-cooled by four-bladed fan. |
| 4. Horse-power | 2½. |
| 5. Ignition | Magneto incorporated in flywheel. |
| 6. Lubrication | Automatic, operated by engine. |
| 7. Bearings | Crank shaft plain, big end roller. |
| 8. Control | Throttle lever on handle-bars. |
| 9. Clutch | Multiple plate, 8 pen steel, 8 phosphor bronze arranged alternately, operated from handle-bar. |
| 10. Transmission | Two ½ by ⅝ in. chains (a) from crank-shaft to countershaft, (b) from countershaft to driving axle. |
| 11. Chain Adjustment | (a) By suspension bolt in front of engine.
(b) By phosphor bronze eccentric bushes fitted with locking rings. |
| 12. Differential | Spring pawls and ratchets. |
| 13. Driving wheels | Cast iron. |
| 14. Fuel tank | Strong with double compartment, capacity ¾ gallon petrol, ¼ gallon oil. |
| 15. Attachment | Consists of 1 in. tubular bar fitted with four collars with long studs and clamp plates for attaching to base of the handles of the mower. It can be adjusted to any width of roller-type mower from 16 to 27 in. cut. |
| 16. Measurements | Height 1 ft. 10½ in., width 2 ft., length 2 ft. 6 in. |
| 17. Weight | 189 lb. |
| 18. Price £39. | Roller fittings £2 5s. extra. |

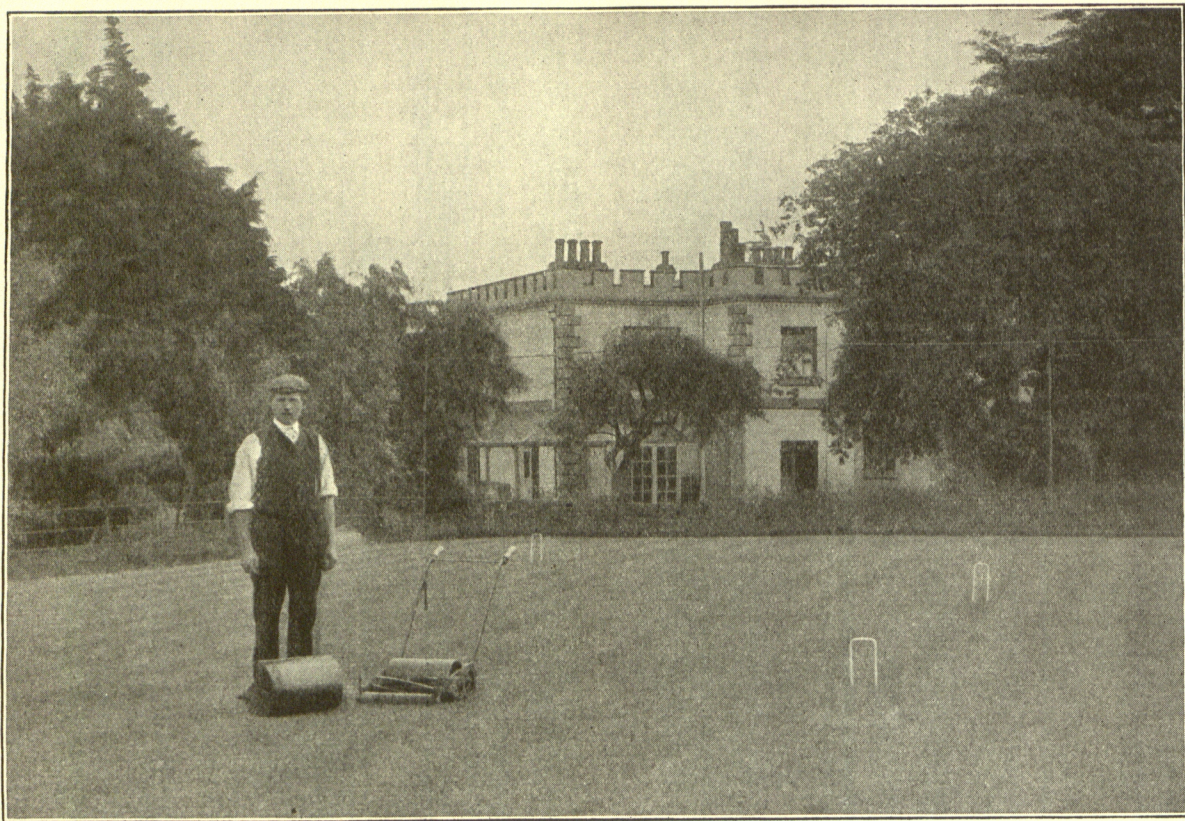
THE "RENDLE" MOTOR MOWER AND
ROLLER ATTACHMENT



THE POWER UNIT ATTACHED TO A MOWING MACHINE.



THE POWER UNIT ATTACHED TO A ROLLER



A WELL MOWN LAWN

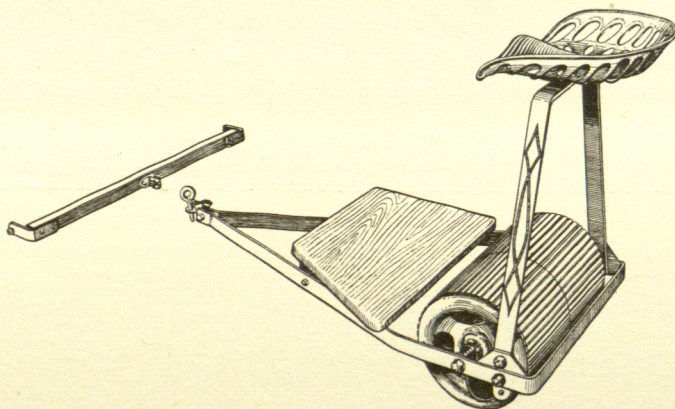


THE FIRST CUT OF A NEW GOLF COURSE

Dennis Motor Mowers

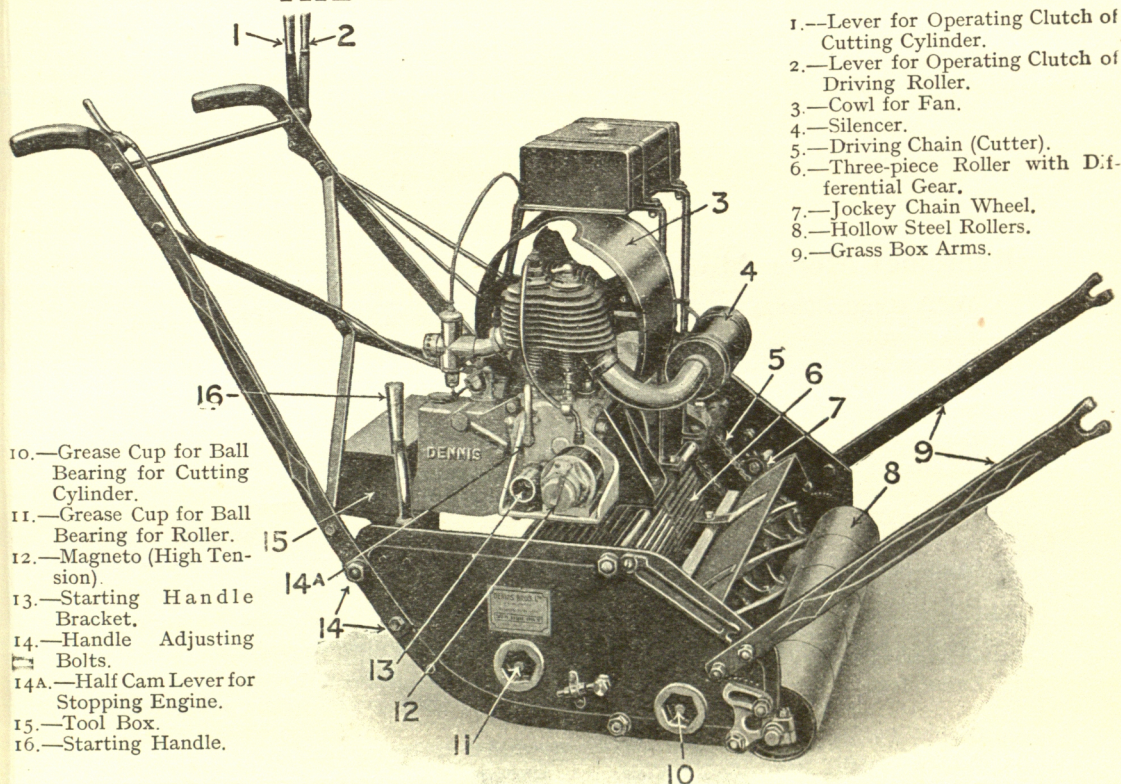
1. Width of cut	24 in.	30 in.
2. Diam. of cutting cylinder	6 in.	6 in.
3. Bearings to ditto ..	Ball. Well protected from damp and dirt and supplied with grease caps for lubrication.	
4. Number of blades ..	Six helical blades mounted on spiders and easily detached for replacement. The complete unit is demountable for grinding.	
5. Bottom blade	Steel blade, specially hardened, tempered and ground, and fixed to a simple adjustable bracket for taking up wear.	
6. Adjustment of cut ..	By front roller, on quadrant adjustable bracket.	
7. Frame	Steel plate, strongly made and well supported by rigid cross members.	
8. Type of engine	Four-stroke internal combustion, petrol.	
9. Cooling	Air-cooled by four-bladed adjustable fan.	
10. Horse-power	4.	4.
11. Ignition	Magneto, fixed ignition.	
12. Lubrication	Sight feed, automatic, on and off by engine.	
13. Bearings	Ball bearings to crank shaft, bronze bushes to connecting rod.	
14. Control of motor ..	Single hand lever on steering handle.	
15. Driving clutch	Taper cone, Ferodo-faced, adjustable enclosed springs.	
16. Control of cutting cylinder	Hand lever on steering handle.	
17. Cutting clutch	Taper cone, Ferodo-faced, adjustable enclosed springs.	
18. Transmission	Inverted tooth, silent chain, efficiently lubricated.	
19. Differential	Mounted on oil-less bearings, gear wheels of special steel, heat treated.	
20. Sections in driving roller	3.	3.
21. Weight	3 $\frac{7}{8}$ cwt.	4 $\frac{3}{4}$ cwt.
22. Grass box	Wood and steel, front end tipping, no rattle and easily detached.	
23. Tool box	Fitted with necessary spares and tools.	
24. Price	£75.	£90.

Trailer seat as illustrated complete with draw-bar, for attachment to either 24 or 30 in. machines, £7 10s.



THE DENNIS MOTOR MOWER

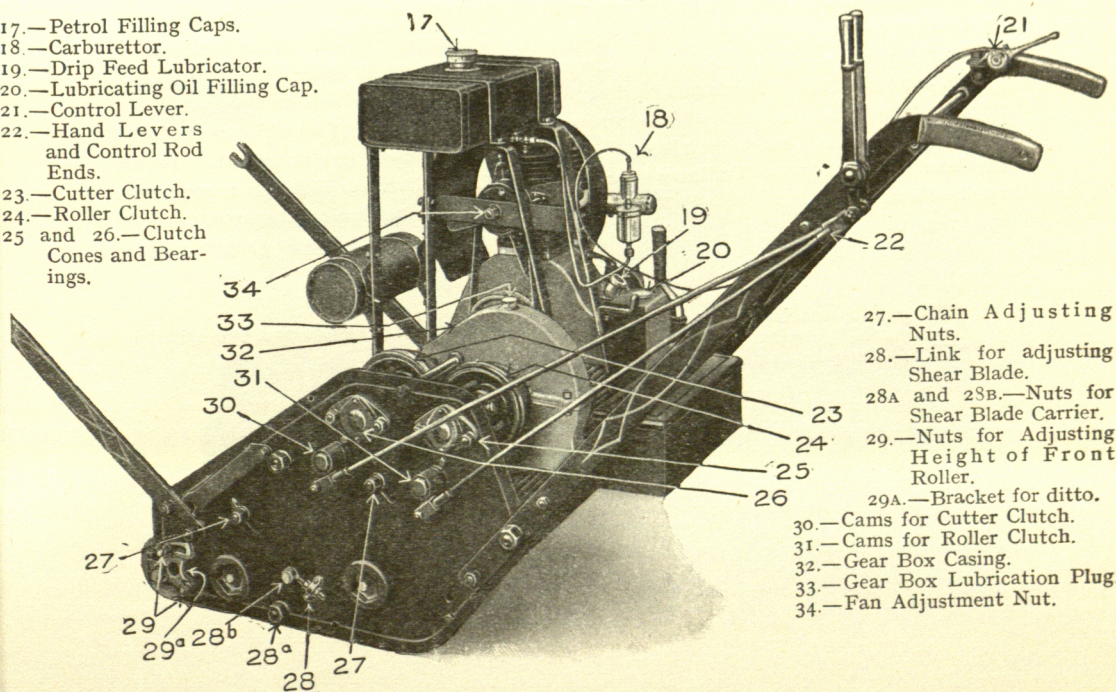
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- 1.—Lever for Operating Clutch of Cutting Cylinder.
- 2.—Lever for Operating Clutch of Driving Roller.
- 3.—Cowl for Fan.
- 4.—Silencer.
- 5.—Driving Chain (Cutter).
- 6.—Three-piece Roller with Differential Gear.
- 7.—Jockey Chain Wheel.
- 8.—Hollow Steel Rollers.
- 9.—Grass Box Arms.

- 10.—Grease Cup for Ball Bearing for Cutting Cylinder.
- 11.—Grease Cup for Ball Bearing for Roller.
- 12.—Magneto (High Tension).
- 13.—Starting Handle Bracket.
- 14.—Handle Adjusting Bolts.
- 14A.—Half Cam Lever for Stopping Engine.
- 15.—Tool Box.
- 16.—Starting Handle.

- 17.—Petrol Filling Caps.
- 18.—Carburettor.
- 19.—Drip Feed Lubricator.
- 20.—Lubricating Oil Filling Cap.
- 21.—Control Lever.
- 22.—Hand Levers and Control Rod Ends.
- 23.—Cutter Clutch.
- 24.—Roller Clutch.
- 25 and 26.—Clutch Cones and Bearings.



- 27.—Chain Adjusting Nuts.
- 28.—Link for adjusting Shear Blade.
- 28A and 28B.—Nuts for Shear Blade Carrier.
- 29.—Nuts for Adjusting Height of Front Roller.
- 29A.—Bracket for ditto.
- 30.—Cams for Cutter Clutch.
- 31.—Cams for Roller Clutch.
- 32.—Gear Box Casing.
- 33.—Gear Box Lubrication Plug.
- 34.—Fan Adjustment Nut.

Ransomes Motor Mowers

1. Width of cut ..	16 in.	18 in.	20 in.	24 in.	30 in.	30 in.	36 in.	42 in.
2. Dia. of cutter..	5 $\frac{1}{4}$ "	5 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	6 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	6 $\frac{5}{8}$ "	7 "	7 $\frac{1}{2}$ "
3. Bearings to cutter ..	Self-aligning ball bearings.							
4. No. of blades ..	8	8	8	5	5	6	6	6
5. Bottom blade..	Hard steel fronted lip pattern.							
6. Adjustment of cut	Movement of front carriage by two set screws.							
7. Frame ..(Cast iron)(	Malleable iron.		)		(		Cast iron.	
8. Type of engine(	2-stroke "Villiers."		)		4-stroke "Orwell."		)(4-str'ke*)	
9. Cooling ..(	Air cooled.		)		(		Water cooled.	
10. Horse-power ..	1 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	3	3	5/6	6/8	6/8 or 10/12
11. Ignition ..(	H.T. flywheel magneto.		)		High-tension magneto.)	
12. Lubrication ..(	" Petroil " Aut.		)		Sight drip feed.)	
13. Engine bearings(	Plain and roller.		)		Plain.		)(Plain, with Magnolia metal linings.	
14. Control of motor	Throttle operated from steering handles.							
15. Driving clutch (	Band )	(		Cone.	)		(Friction band combined with reducing gear.)	
16. Control of cutter(	Nil. )	(		Lever if required.†)	(		Clutch lever.)(
17. Cutting clutch (	Nil. )	(		Dog type.†)	(		Dog type.)(
18. Transmission ..	Through roller chains in all cases.							
19. Differential ..(	Pawls and ratchet.		)		Bevel wheels and pinion.)	
20. Driving roller..(	Made in two sections.				)( Two which can be locked.)			
21. Weight ..	2 cwt.	2 $\frac{1}{4}$ cwt.	2 $\frac{1}{4}$ cwt.	4 $\frac{1}{2}$ cwt.	5 cwt.	9 $\frac{1}{2}$ cwt.	16 cwt.	19 cwt.
22. Grass box ..(	Ordinary type.		)		(		Side delivery or slide box as required.)	
23. Tool box ..	Fitted complete with necessary tools and spares.							
24. Price	£45	£50	£60	£125	£140	£195	£285	£310

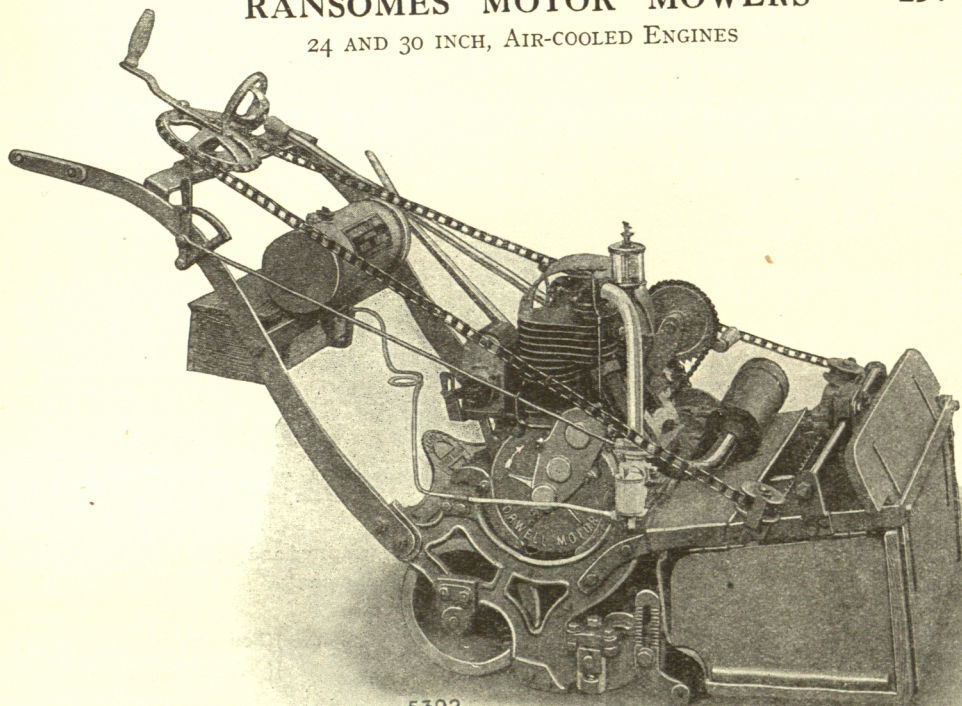
* The 42-inch machine is fitted with a single-cylinder 6/8 H.P. engine or a two-cylinder 10/12 H.P. engine.

† Fitted if required at an extra charge.

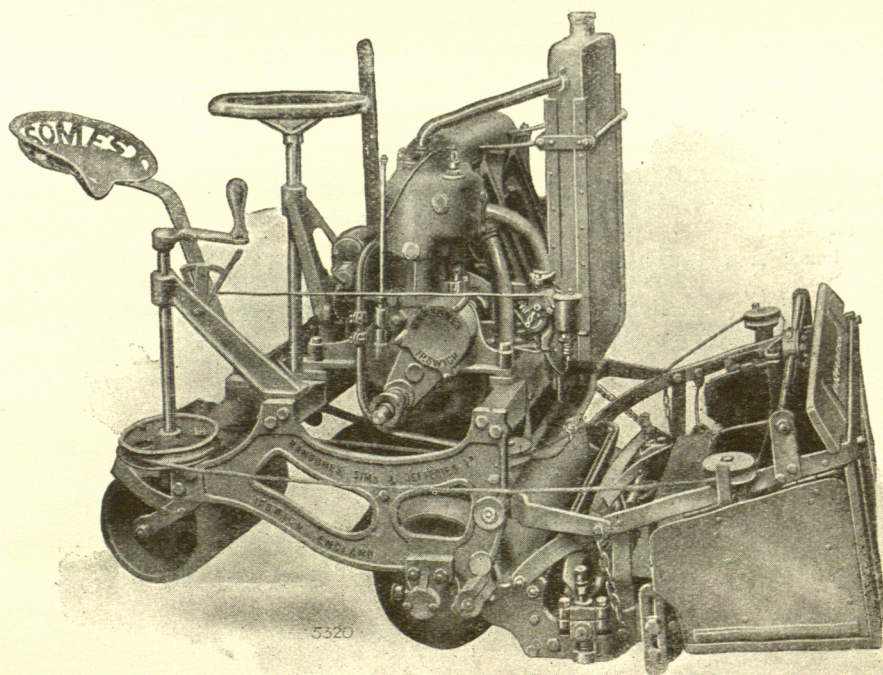
RANSOMES MOTOR MOWERS

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24 AND 30 INCH, AIR-COOLED ENGINES



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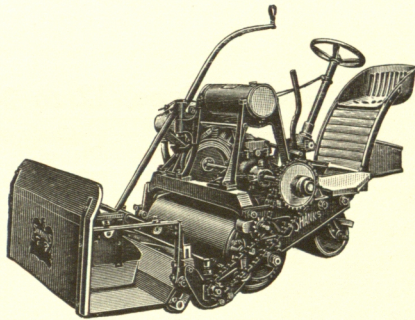
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36 INCH, WATER COOLED

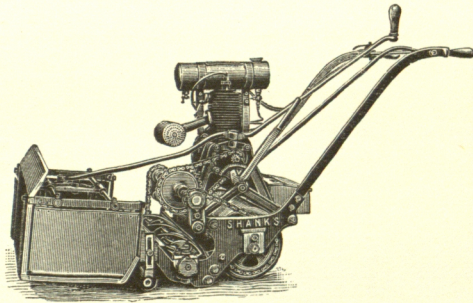
Shanks Motor Mowers

1. Width of cut	16 in.	20 in.	24 in.	24 in.	30 in.	36 in.
2. Diameter of cutter ..	5½ "	6 "	6 "	6 "	6 "	7½ "
3. Bearings to cutter ..(	Ball bearings.		)(		Plain bearings.	
4. Number of blades ..	7	6 or 8	6 or 8	6	6	6
5. Bottom blade ..(	Steel faced, specially hardened, tempered and ground.					
6. Adjustment of cut ..	By front roller in all cases.					
7. Frame	Cast iron in all cases.					
8. Type of engine ..(	Two stroke.		)(		Four stroke.	(Four-stroke twin.)
9. Cooling .. ..(	Air.		)(		Air or water.	
10. Horse-power	1½	2½	2½	4½	4½	8-10
11. Ignition	Magneto in all cases.					
12. Lubrication .. ..(	" Petroil " automatic.		)(		Splash.	
13. Engine bearing ..(	Main plain, big end roller.		)(		Plain.	
14. Control of motor ..	Throttle lever on steering handles in all cases.					
15. Driving clutch ..(	Cone.		)(		Contracting bands.	
16. Control of cutter ..	Hand lever on steering handles in all cases.					
17. Cutting clutch ..	Claw clutch in all cases.					
18. Transmission .. ..(	Chain.		)(		Epicyclic gear and chain.	
19. Differential	Fitted in all cases.					
20. Driving roller	Two sections in all cases.					
21. Weight	1¾ cwt.	2½ cwt.	2¾ cwt.	4½ cwt.	4¾ cwt.	13½ cwt.
22. Grass box .. ..(	(Non-deliv'y.)(		Grass box fitted with delivery gear.)	
23. Tool box	Fitted complete with necessary tools and spares.					
24. Price	£45	£65	£75	£115	£140	£285

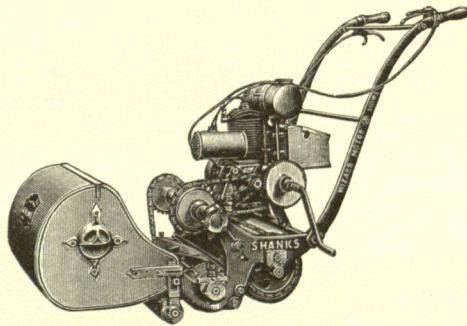
SHANKS MOTOR MOWERS



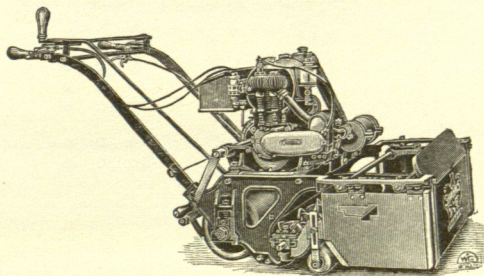
36 INCH MOTOR MOWER WITH SEAT FOR DRIVER



20 AND 24 INCH "JEHU"



16 INCH "WIZARD"



24 AND 30 INCH SIZE MOTOR MOWER

Mowing Machines, Roller Type, 12 to 24 inch cut

Name.	Width of cut, inches.	Gear drive.		Chain drive.		Price.		
		Dia. of cutter, inches.	Number of blades.	Dia. of cutter, inches.	Number of blades.	£	s.	d.
J.P. Super Mower ..	12	5	6	—	—	12	12	0
	16	5	6	—	—	16	16	0
Ransomes Automaton ..	12	5½	5	5½	8	8	0	0
	14	5½	5	5½	8	9	10	0
(a)	14	5	8	5	8	9	0	0
	16	5¾	5	5½	8	11	0	0
(a)	16	5	8	5	8	9	15	0
	18	5¾	5	5½	8	12	10	0
(b)	18	5	10	—	—	13	5	0
	20	5¾	5	5¾	8	13	10	0
	22	6½	5	6½	8	15	0	0
	24	6½	5	6½	8	16	0	0
Shanks Caledonia ..	12	5½	6	5½	6	7	0	0
	14	5½	6	5½	6	8	5	0
(c)	14	5½	7	5½	7	9	0	0
(d)	14	5	8	5¾	8	10	5	0
	16	5½	6	5½	6	9	0	0
(c)	16	5½	7	5½	7	9	15	0
(d)	16	5	8	5¾	8	11	15	0
(d)	19	5	8	5¾	8	13	15	0

(a) Ransomes Special Close Cutting Machines.

(b) New Bowling Green Mower.

(c) Shanks Special Close Cutting Caledonias.

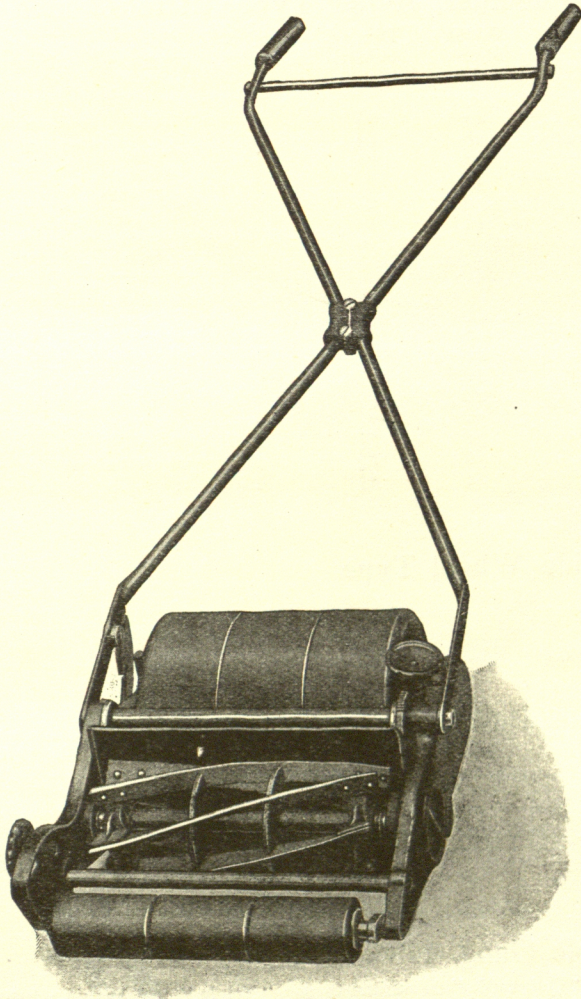
(d) Special Standard for Bowling Greens.

All complete with Grass Box and Delivery Plate.

High Side Wheel Type, 13 to 19 inch cut

Name.	Width of cut, inches.	Dia. of cutter, inches.	Number of blades.	Price.			Grassbox extra.		
				£	s.	d.	£	s.	d.
Ransomes ..	13	6½	7	8	0	0	1	0	0
New Empire	15	6½	7	9	0	0	1	2	6
	17	6½	7	10	0	0	1	5	0
	19	6½	7	11	10	0	1	7	6
Shanks ..	15	6½	7	9	0	0	1	2	6
Talisman	17	6½	7	10	0	0	1	5	0

THE J.P. SUPER LAWN MOWER



Machine stands on end in space 9 in. by 17 in. when catch released and handles are dropped.

Rotary Cutter extra "strong" on Ball Bearings. Detachable from machine without dismantling bearings.

Hand-wheel adjustment for medium to close cutting.

Three-part roller.
Speed-up gears in oil chamber, inside cylinder.

Hand-wheel adjusts setting of cutter.
Roller Chain and large Sprocket Wheel in Oil Bath.

Lignum Vitæ Roller.

THE GRASS BOX IS STRONG, COMPACT AND EASILY REMOVABLE. IT IS FIRMLY SECURED TO MACHINE, THUS OBTAINING "RATTLE" AND SHAKING

Horse Machines, Roller Type, 24 to 42 inch cut

Name.	Width of cut, inches.	Dia. of cutter, inches.	Number of blades.	Without grassbox £ s. d.	Sliding delivery. £ s. d.	Chain delivery. £ s. d.
Ransomes						
donkey ..	24	6 $\frac{1}{2}$	5		23 0 0	24 10 0
Ransomes pony	26	6 $\frac{5}{8}$	5		31 0 0	34 0 0
" "	30	6 $\frac{5}{8}$	5		36 0 0	39 0 0
" horse	30	8	6		50 0 0	54 10 0
" "	36	8	6		56 10 0	61 0 0
" "	42	8	6		61 10 0	66 0 0
				With ordinary grassbox. £ s. d.	Patent sliding delivery. £ s. d.	
Shanks donkey	22	6	6	21 12 6	23 2 6	
" "	24	6	6	23 0 0	24 10 0	
" pony	25	7	6	30 0 0	33 0 0	
" "	28	7	6	33 10 0	36 10 0	
" "	30	7	6	36 0 0	39 0 0	
" horse..	30	8 $\frac{1}{4}$	6	50 0 0	54 10 0	
" " ..	36	8 $\frac{1}{4}$	6	56 10 0	61 0 0	
" " ..	42	8 $\frac{1}{4}$	6	61 10 0	66 0 0	

High Side Wheel Type

	inches.	inches.	£ s. d.	Grass collector extra. £ s. d.
Ransomes Ideal .	32	7	52 10 0	8 15 0
" " "	36		56 10 0	9 10 0
Shanks Triumph.	36	8 $\frac{1}{4}$	56 10 0	—
Do. No. 2 Pattern	36	12 $\frac{1}{4}$	65 0 0	—

Triple Gang, 84 inch cut

Ransomes Triple	—	—	—	132 0 0
Shanks Alliance	—	—	—	132 0 0

Quintuple Gang, 138 inch cut

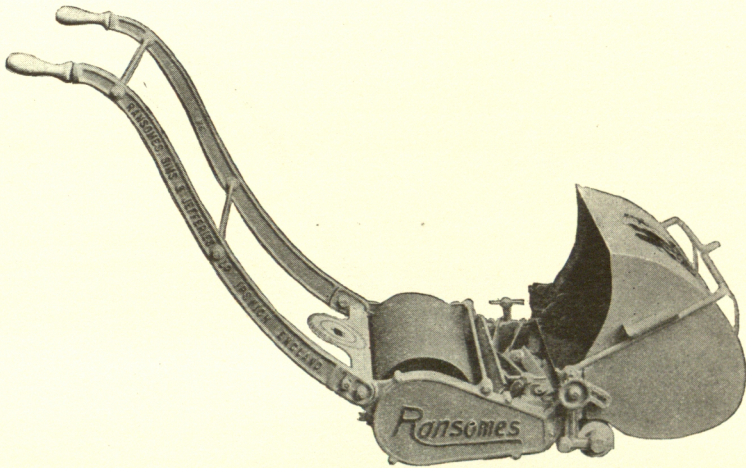
Ransomes' "Quintuple" is similar to the "Triple," but has an additional frame carrying two cutting units which give a total cutting width of 138 inches (11 ft. 6 in.). It can be fitted with a seat for the driver and a pole for a pair of horses or with a draw-bar for tractor.

Price	£220 0 0
A Sulky with one unit with shafts and seat	52 10 0
Single unit to use as spare	35 0 0

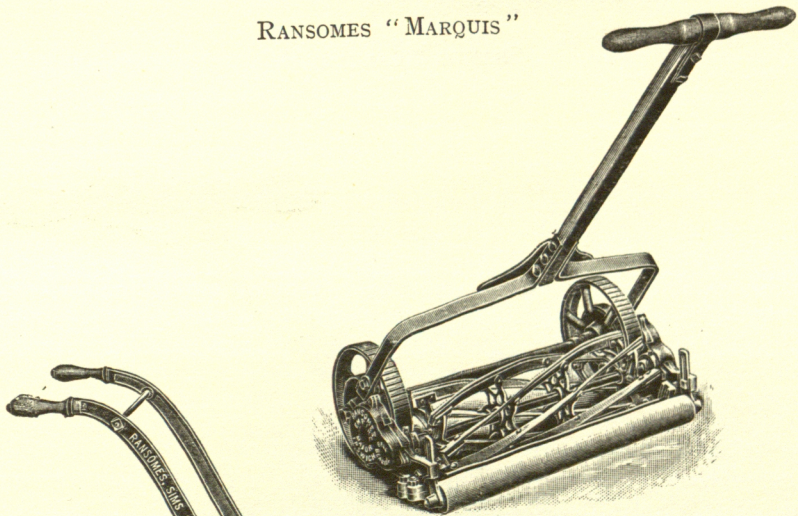
Further particulars of this or of any other make of machine will be submitted on application to—

JAMES CARTER & CO.,
Seed Merchants to H.M. the King,
Raynes Park, London, S.W.20.

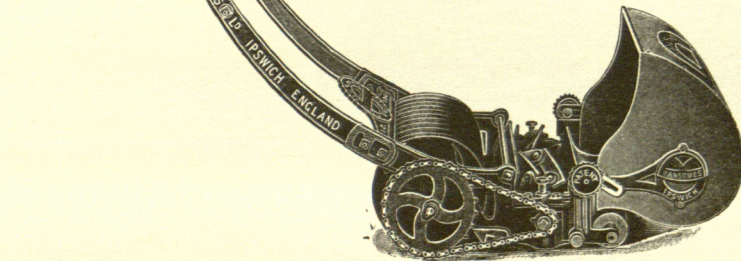
RANSOMES HAND MACHINES



RANSOMES "MARQUIS"

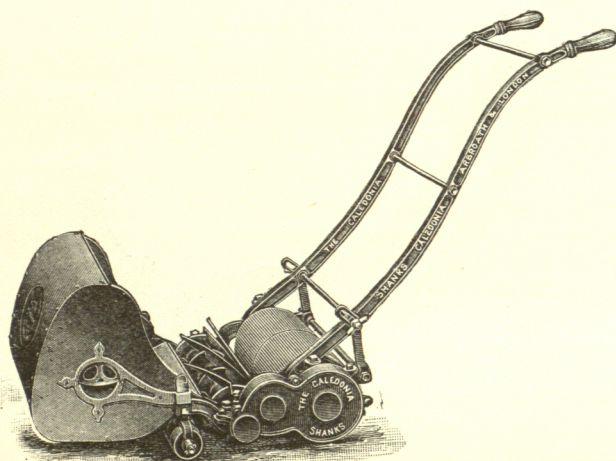


RANSOMES "NEW EMPIRE"

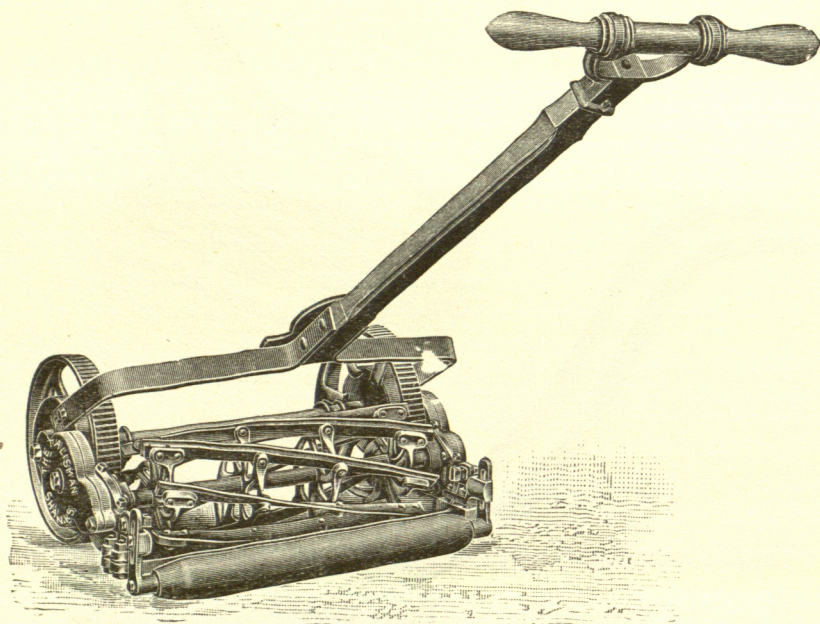


RANSOMES "AUTOMATON"

SHANKS HAND MACHINES

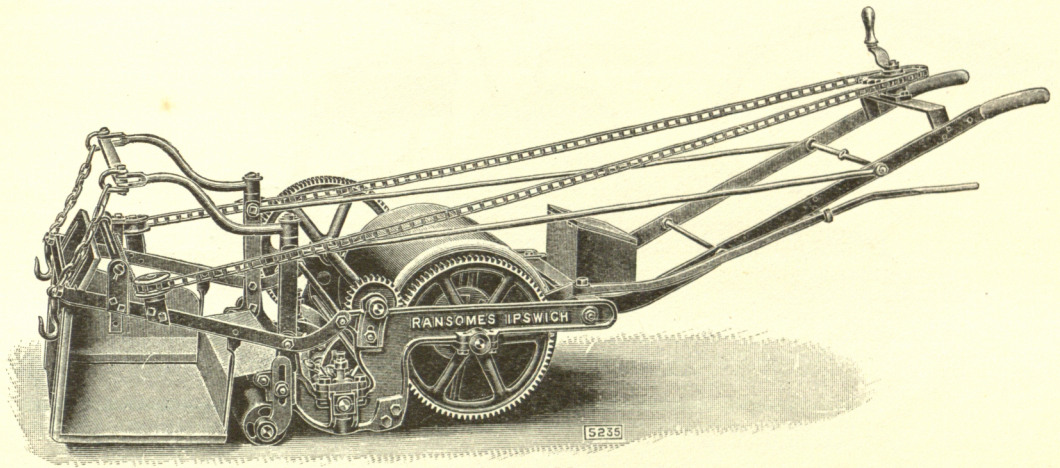


SHANKS " CALEDONIA "

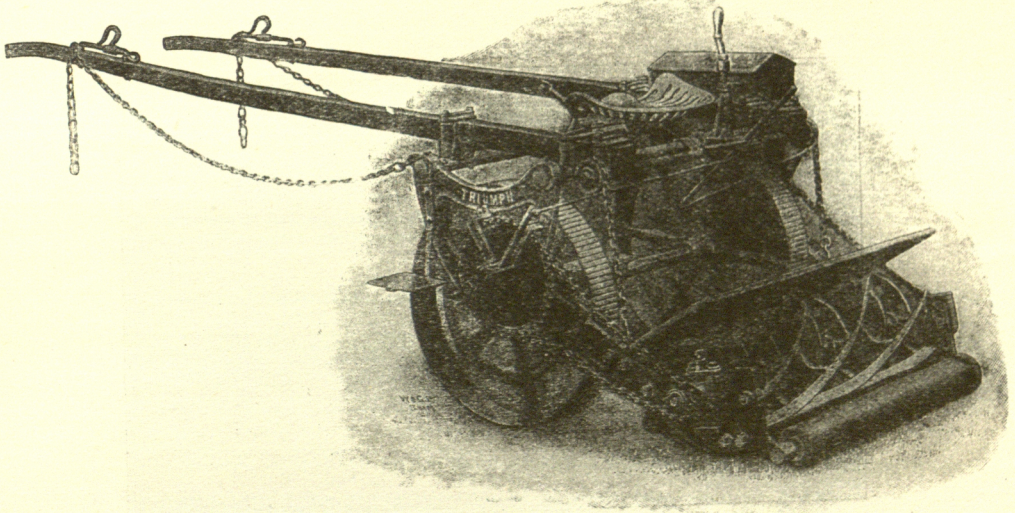


SHANKS " TALISMAN "

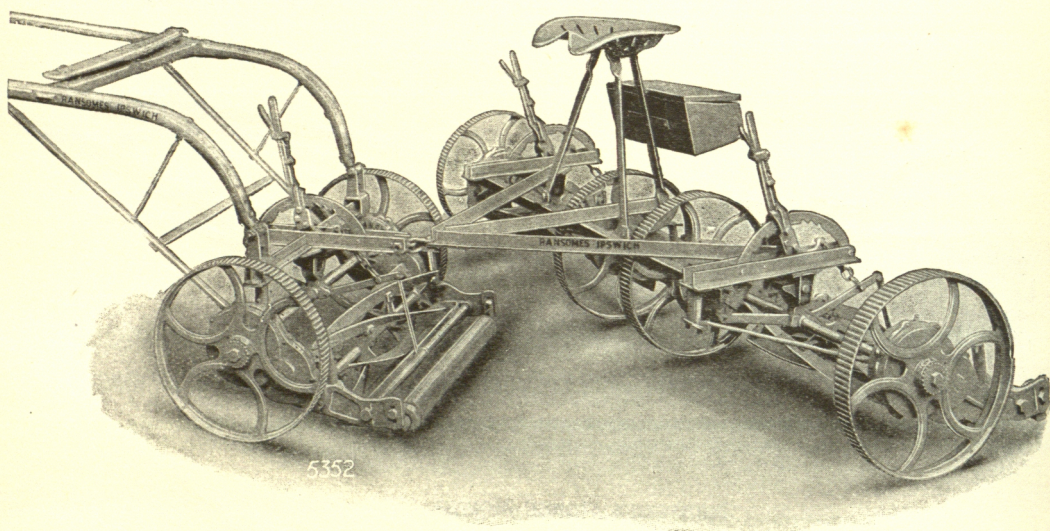
RANSOMES & SHANKS HORSE MACHINES



RANSOMES HORSE MOWER



SHANKS "TRIUMPH," NO 2 PATTERN



RANSOMES "TRIPLE" MOWER



RANSOMES "QUINTUPLE," DRAWN BY A CLETRAC TRACTOR. IT CAN ALSO BE FITTED WITH A POLE FOR A PAIR OF HORSES