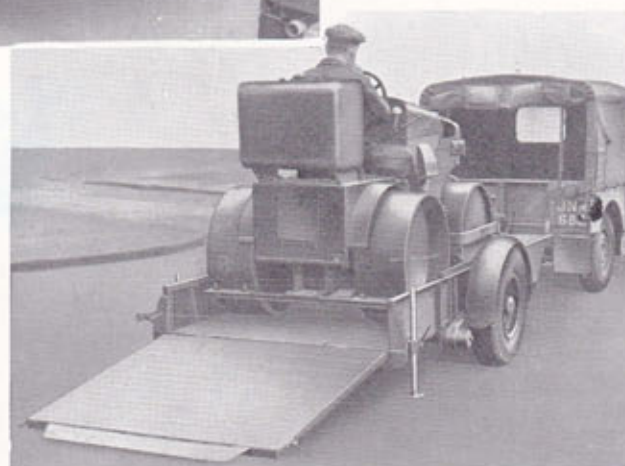


LOW-LOADING TRAILER FOR Aveling-Barford LIGHT ROLLERS

With this new low-loading trailer specially designed for transporting Aveling-Barford Footpath Rollers, travelling time between working sites or from depot to job is reduced to a fraction of that normally taken.

With its independently spring mounted wheels and automatic over-run brake unit, the loaded trailer can be towed with safety at speeds of up to 30 m.p.h. (45 km/hr).

Loading and unloading is simple; the backboard when lowered forms a ramp of low incline which is easily climbed by the roller under its own power. Adjustable jacks support the rear of the body during these operations.



A screw-operated retractable jockey wheel at the forward end of the trailer facilitates man-handling and also aligns the coupling for attachment to the towing vehicle.

BRIEF SPECIFICATION

Dimensions. Length (backboard raised) 12ft. 10ins. (391cm).
Width (over tyres) 5ft 9ins. (175cm).
Width of Body 4ft. 4ins. (132cm).
Height (to top of backboard) 5ft. 0ins. (152cm).
Height (to top of body) 2ft. 0ins. (61cm).

Body. Constructed of heavy gauge mild steel sheet welded to angle section stiffening members. Floor, which is renewable, is of 1½" thick timber supported by five steelcross members. Principal frame cross member is a 3" diameter steel tube on which are pivoted the independent wheel assemblies.

Backboard. Steel frame, timber-filled with steel toe-plate.

Suspension. Quarter elliptic silico-manganese steel road springs, fitted to pivoting crank arms which suspend each wheel independently.

Hubs. M.C.I. hubs with taper roller bearings, mounted on steel spindles.

Brakes. Internal expanding type, 12" diameter, operated by flexible cable. Hand parking-brake connected to the automatic over-run brake unit.

Wheels. Heavy truck type, 4.33 x 15; five stud fixing.

Tyres. 27 x 16 high pressure.

Wings. Dome section carried on robust brackets.

Accessories. Retractable screw-operated front jockey wheel; rear corner jacks; number plate; tail lamp; and electrical connections.

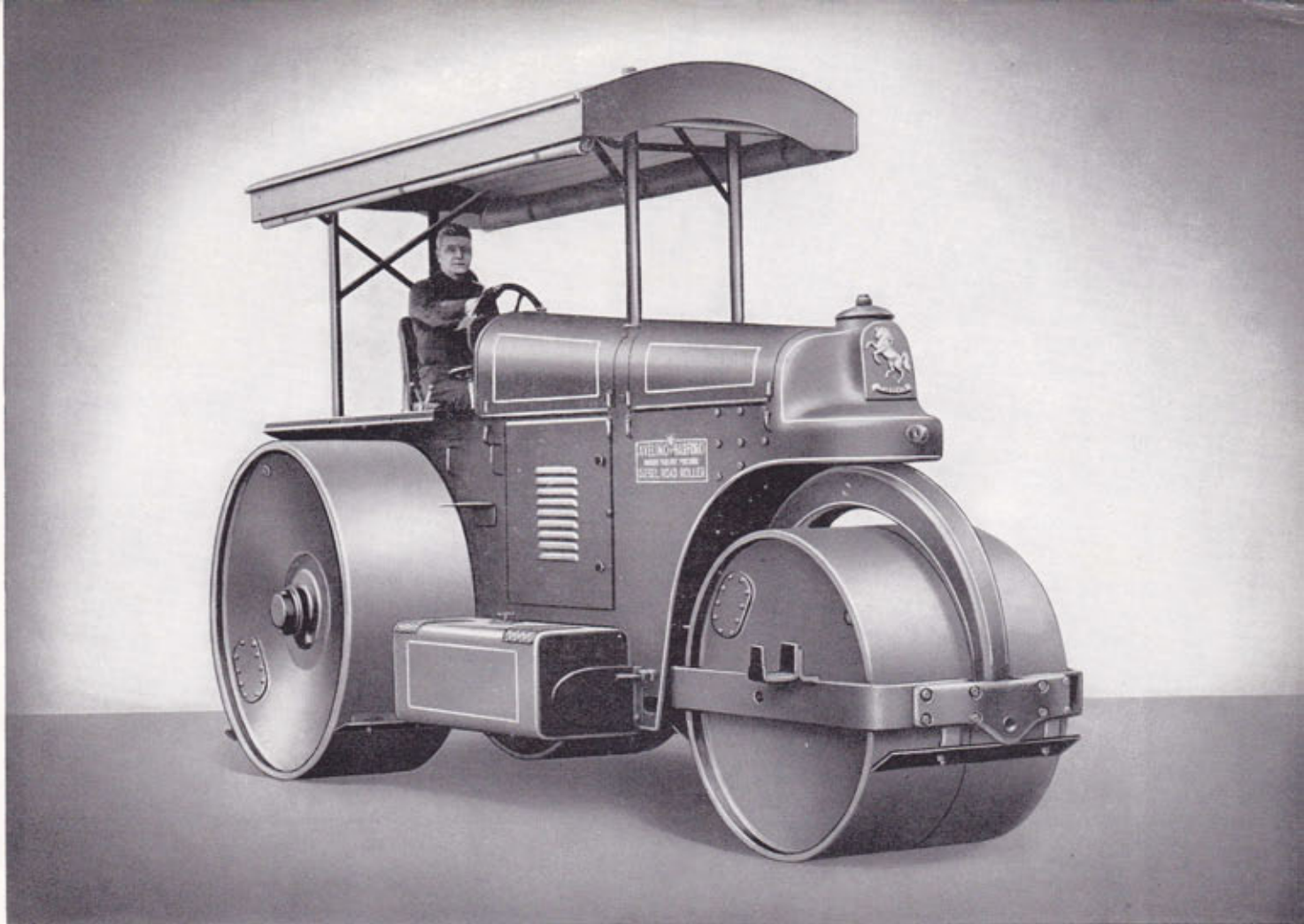
Finish. Body and wings, green. Wheels black.

Coupling. Quick release pin type giving a universal movement. Height of centre of cross members on towing vehicle should be 1ft. 8ins. to 2ft. 1in. (50 cm to 63 cm).

Weight. 10 cwt—1120 lb. (500 kgs.).

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AVELING-BARFORD

ROAD ROLLERS

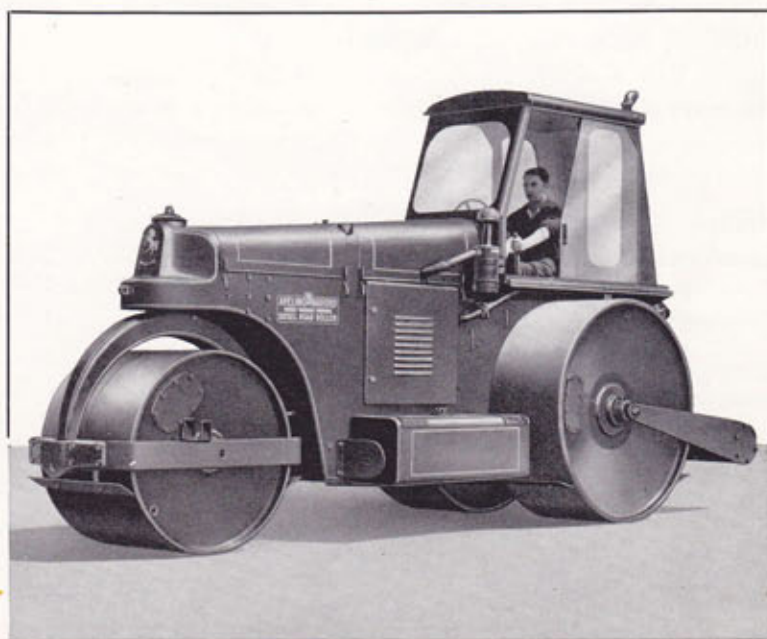
MODELS

GDR and GDO

WEIGHT RANGE

20,400 lb to 28,660 lb

9253 to 13000 kg



ORIGINATORS AND WORLD'S LARGEST MAKERS OF ROAD ROLLERS

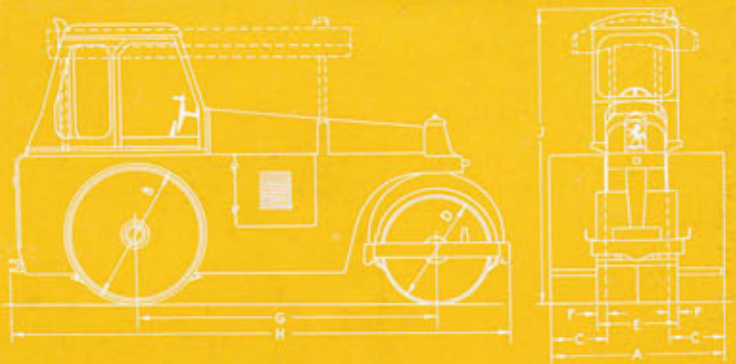
No. 1752

DIMENSIONS

GDR

GDQ

		ft. ins.	mm.	ft. ins.	mm.
A	Rolling Width ..	6 - 2	1880	6 - 2	1880
B	Diameter of Rear Rolls ..	5 - 0½	1540	5 - 0½	1540
C	Width of Rear Rolls ..	2 - 0	610	2 - 0	610
D	Diameter of Front Roll ..	3 - 10½	1185	3 - 10½	1185
E	Width of Front Roll ..	2 - 10	865	2 - 10	865
F	Overlap of Rolls ..	4	100	4	100
G	Wheelbase ..	10 - 8½	3260	10 - 8½	3260
H	Length ..	17 - 10	5435	17 - 10	5435
J	Height with Awning ..	10 - 1	3075	10 - 1	3075
	Height with Cab ..	10 - 1	3075	10 - 1	3075
	Turning Radius :				
	Hand Steering ..	16 - 0	4875	16 - 0	4875
	Power Steering ..	20 - 0	6095	20 - 0	6095



WEIGHTS - in working order

with Perkins electric starting engine or Ruston hand starting engine.

Working order weights include weight of cooling water, and proportion of fuel. Weight of driver is not included. Weight of Awning or Cab and any other extra fitting is not included.

SPEEDS

Forward
and
Reverse

CAPACITIES

ENGINE - Diesel

Standard

Perkins L4

4 - cylinder

48 b.h.p. at 1500 r.p.m.

Bore 4½ ins. (108 mm.)

Stroke 4½ ins. (120 mm.)

Displacement per cylinder:
67.4 cu. ins. (1104 c.c.)

Alternative

Ruston & Hornsby 3 VSHR

3 - cylinder

40 b.h.p. at 1500 r.p.m.

Bore 4½ ins. (115 mm.)

Stroke 4½ ins. (115 mm.)

Displacement per cylinder:
71.55 cu. ins. (1172 c.c.)

G
D
R

	lb.	kg.
Standard Machine — Ballasted : Sand ..	27400	12429
Standard Machine — Ballasted : Water	24460	11094
Standard Machine — without Ballast ..	20400	9253

m.p.h.	km./hr.
1-0	1-61
1-6	2-57
3-3	5-31
5-0	8-05

Fuel Tank:	20 Galls. 90 litres
Sprinkler Tank:	100 Galls. 450 litres

G
D
Q

	lb.	kg.
Standard Machine — Ballasted : Sand ..	28660	13000
Standard Machine — Ballasted : Water	25806	11706
Standard Machine — without Ballast ..	22530	10219

m.p.h.	km./hr.
1-0	1-61
1-6	2-57
3-3	5-31
5-0	8-05

Fuel Tank :	20 Galls. 90 litres
Sprinkler Tank:	100 Galls. 450 litres

Weights of Extras

	lb.	kg.
Awning and Curtains	404	183
Cab	532	241
Water Sprinkler Tanks — Full ..	1452	659
Water Sprinkler Tanks — Empty ..	452	205
Hydraulic Coupling	168	76
Power Steering	221	100
Hydraulic Scarifier, 2 tine	1431	649
Hydraulic Scarifier, 3 tine	1596	724
"Price" Scarifier, 2 tine	1194	541
"Price" Scarifier, 3 tine	1354	614
Hand Pump and Hose	112	51
Electric Starting Gear (Ruston Engine) ..	392	178

Engine ratings given are for intermittent loads. Continuous ratings will be less.
Dimensions, weights and other particulars shown in this leaflet are not binding
in detail and the right to modify is reserved.

DISTRIBUTOR

SKIPPING SPECIFICATION (Approx.)

GDR

GDQ

	Length	Width	Height	Weight
	ft. in.	mm.	ft. in.	mm.
FOR SHORT SEA VOYAGE				
Roller on wheels	18 - 0	5485	6 - 2	1880
Roller on wheels with Scarifier	18 - 6	5640	6 - 7	2005

FOR LONG SEA VOYAGE

Chassis case	16 - 4	4980	3 - 10	1170
Front Roll Assembly	5 - 9	1755	3 - 8	1120
Rear Rolls—two, each dia.	5 - 1	1550	2 - 0	610

EXTRAS

Hydraulic Scarifier Case ..	6 - 9	2055	1 - 6	455
(long sea voyage)				
Resilient Scarifier	Add to Chassis Case weight			
(long sea voyage)				
Awning Case	11 - 1	3380	5 - 0	1525
(long or short sea voyage)				
Cab Case	6 - 9	2055	3 - 7	1090
(long or short sea voyage)				

Length	Width	Height	Weight
ft. in.	mm.	ft. in.	mm.
18 - 0	5485	6 - 2	1880
18 - 6	5640	6 - 7	2005
16 - 4	4980	3 - 10	1170
5 - 9	1755	3 - 8	1120
5 - 1	1550	2 - 0	610

6 - 9	2055	1 - 6	455
11 - 1	3380	5 - 0	1525
6 - 9	2055	3 - 7	1090

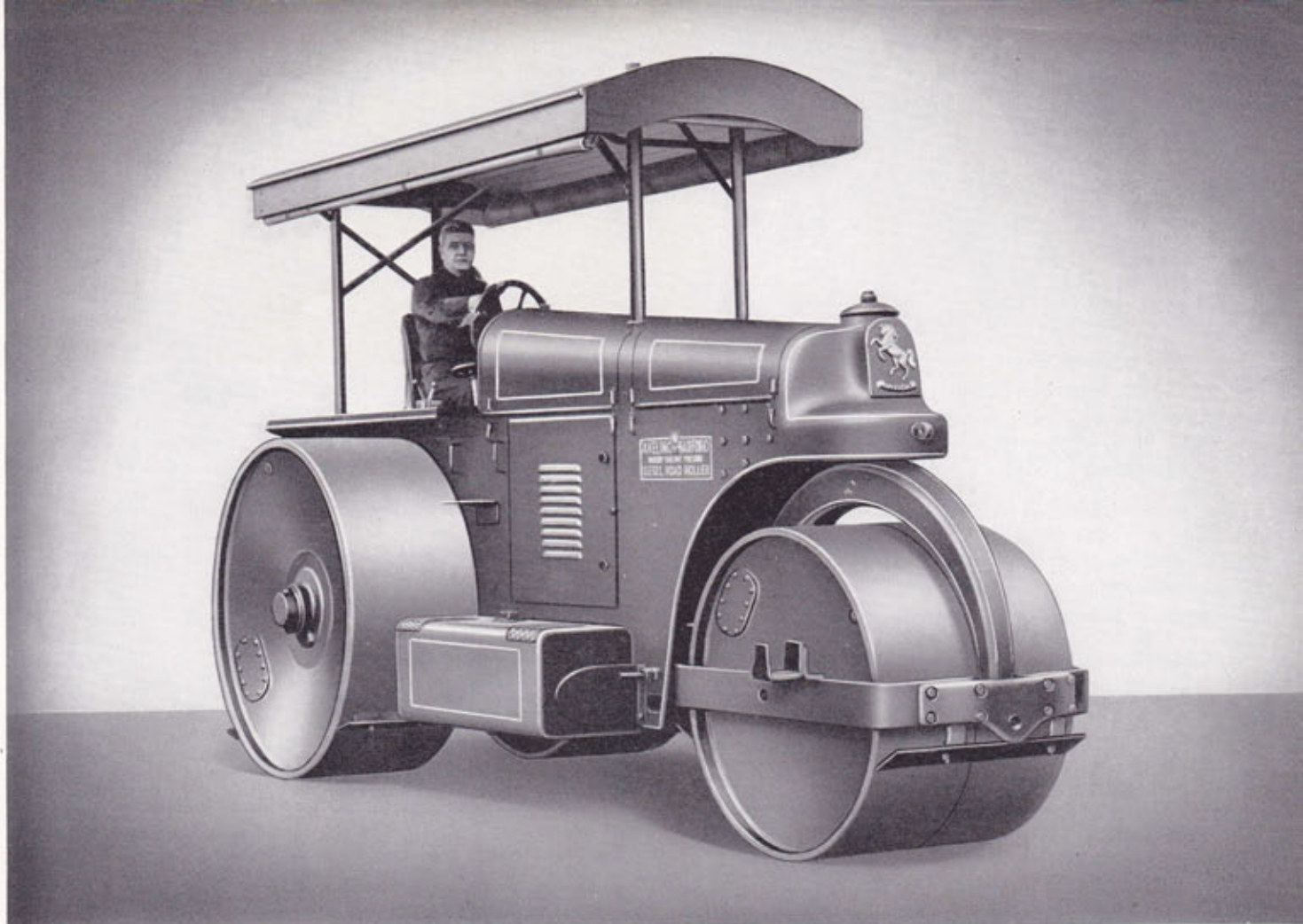
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AVELING-BARFORD

ROAD ROLLERS

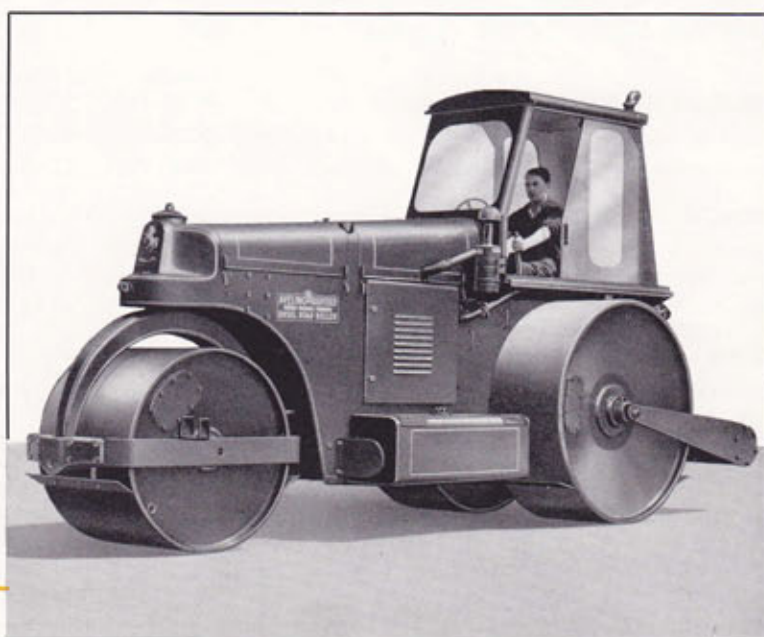
MODELS

GDO and GDM

WEIGHT RANGE

25,906 lb to 36,610 lb

11751 to 16606 kg

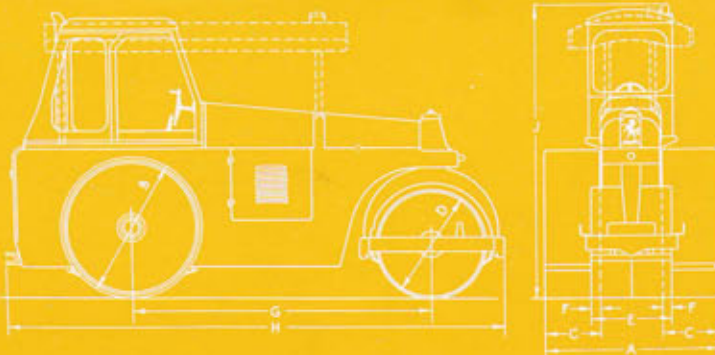


ORIGINATORS AND WORLD'S LARGEST MAKERS OF ROAD ROLLERS

No. 1753

DIMENSIONS

		GDO		GDM	
		ft. ins.	mm.	ft. ins.	mm.
A	Rolling Width ..	6 - 2	1880	6 - 2	1880
B	Diameter of Rear Rolls ..	5 - 0½	1540	5 - 0½	1540
C	Width of Rear Rolls ..	2 - 0	610	2 - 0	610
D	Diameter of Front Rolls ..	3 - 11½	1200	3 - 11½	1200
E	Width of Front Rolls ..	2 - 10	865	2 - 10	865
F	Overlap of Rolls ..	4	100	4	100
G	Wheelbase ..	10 - 8½	3260	10 - 8½	3260
H	Length ..	17 - 10	5435	17 - 10	5435
J	Height with Awning ..	10 - 1	3075	10 - 1	3075
	Height with Cab ..	10 - 1	3075	10 - 1	3075
	Turning Radius :				
	Hand Steering ..	16 - 0	4875	16 - 0	4875
	Power Steering ..	20 - 0	6095	20 - 0	6095



WEIGHTS - in working order

with Perkins electric starting engine or Ruston hand starting engine.
Working order weights include weight of cooling water and proportion of fuel. Weight of driver not included. Weight of Awning or Cab and any other extra fittings not included.

	lb.	kg.
Standard Machine — Ballasted : Sand	33030	14982
Standard Machine — Ballasted : Water	30176	13687
Standard Machine — without Ballast ..	25906	11751

	lb.	kg.
Standard Machine — Ballasted : Sand ..	36610	16606
Standard Machine — Ballasted : Water	34018	15430
Standard Machine — without Ballast ..	30330	13758

SPEEDS

Forward
and
Reverse

m.p.h.	km./hr.
1-0	1-61
1-6	2-57
3-3	5-31
5-0	8-05

m.p.h.	km./hr.
1-0	1-61
1-6	2-57
3-3	5-31
5-0	8-05

CAPACITIES

Fuel Tank :	20 Galls. 90 litres
Sprinkler Tank:	100 Galls. 450 litres

Fuel Tank:	20 Galls. 90 litres
Sprinkler Tank:	100 Galls. 450 litres

ENGINE - Diesel

Standard

Perkins L4
4 - cylinder
48 b.h.p. at 1500 r.p.m.
Bore 4½ ins. (108 mm.)
Stroke 4½ ins. (120 mm.)
Displacement per cylinder:
67.4 cu. ins. (1104 c.c.)

Alternative

Ruston & Hornsby 4 VSHR
4 - cylinder
53 b.h.p. at 1500 r.p.m.
Bore 4½ ins. (115 mm.)
Stroke 4½ ins. (115 mm.)
Displacement per cylinder:
71.55 cu. ins. (1172 c.c.)

Engine ratings given are for intermittent loads. Continuous ratings will be less.
Dimensions, weights and other particulars shown on this leaflet are not binding in detail and the right to modify is reserved.

DISTRIBUTOR

Weights of Extras

	lb.	kg.
Awning and Curtains ..	404	183
Cab ..	532	241
Water Sprinkler Tanks — Full ..	1452	659
Water Sprinkler Tanks — Empty ..	452	205
Hydraulic Coupling ..	168	76
Power Steering ..	221	100
Hydraulic Scarifier, 2 tine ..	1431	649
Hydraulic Scarifier, 3 tine ..	1596	724
" Price " Scarifier, 2 tine ..	1194	541
" Price " Scarifier, 3 tine ..	1354	614
Hand Pump and Hose ..	112	51
Electric Starting Gear (Ruston Engine) ..	392	178

SHIPPING SPECIFICATION (Approx.)

	GDO				GDM			
	Length	Width	Height	Weight	Length	Width	Height	Weight
	ft. in. mm.	ft. in. mm.	ft. in. mm.	T. C. Q. kg.	ft. in. mm.	ft. in. mm.	ft. in. mm.	T. C. Q. kg.
FOR SHORT SEA VOYAGE								
Roller on wheels ..	18 - 0 5485	6 - 2 1880	7 - 0 2135	11 16 2 12014	18 - 0 5485	6 - 2 1880	7 - 0 2135	13 8 2 13640
Roller on wheels with Scarifier	18 - 6 5640	6 - 7 2005	7 - 0 2135	12 8 2 12624	18 - 6 5640	6 - 7 2005	7 - 0 2135	14 0 2 14250
FOR LONG SEA VOYAGE								
Chassis Case ..	16 - 4 4980	3 - 10 1170	6 - 8 2030	6 11 0 6658	16 - 4 4980	3 - 10 1170	6 - 8 2030	6 19 0 7064
Front Roll Assembly ..	5 - 9 1755	3 - 8 1120	5 - 4 1625	3 0 0 3048	5 - 9 1755	3 - 8 1120	5 - 4 1625	3 8 0 3454
Rear Rolls—two, each	dia. 5 - 1 1550	2 - 0 610		1 12 0 1626	5 - 1 1550	2 - 0 610		2 0 0 2032
EXTRAS								
Hydraulic Scarifier ..	6 - 9 2055	1 - 6 455	1 - 10 560	9 0 457	6 - 9 2055	1 - 6 455	1 - 10 560	9 0 457
(long sea voyage)								
" Price " Scarifier ..	Add to Chassis Case weight			12 0 610	Add to Chassis Case weight			12 0 610
(long sea voyage)								
Awning Case ..	11 - 1 3380	5 - 0 1525	1 - 4 405	6 0 305	11 - 1 3380	5 - 0 1525	1 - 4 405	6 0 305
(long or short sea voyage)								
Cab Case ..	6 - 9 2055	3 - 7 1090	4 - 11 1500	7 3 394	6 - 9 2055	3 - 7 1090	4 - 11 1500	7 3 394
(long or short sea voyage)								

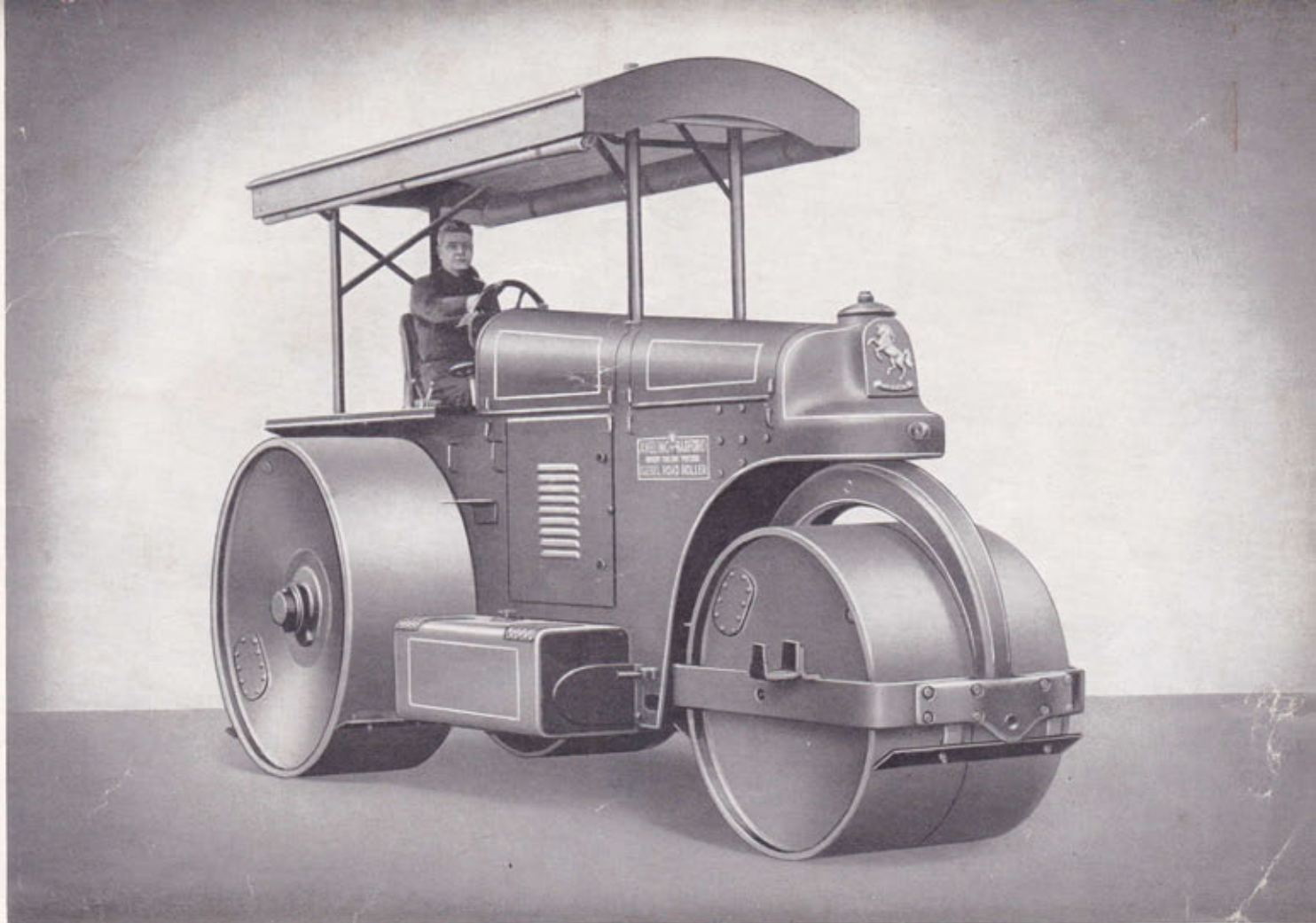
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R O A D R O L L E R S

MODELS GDR and GDO

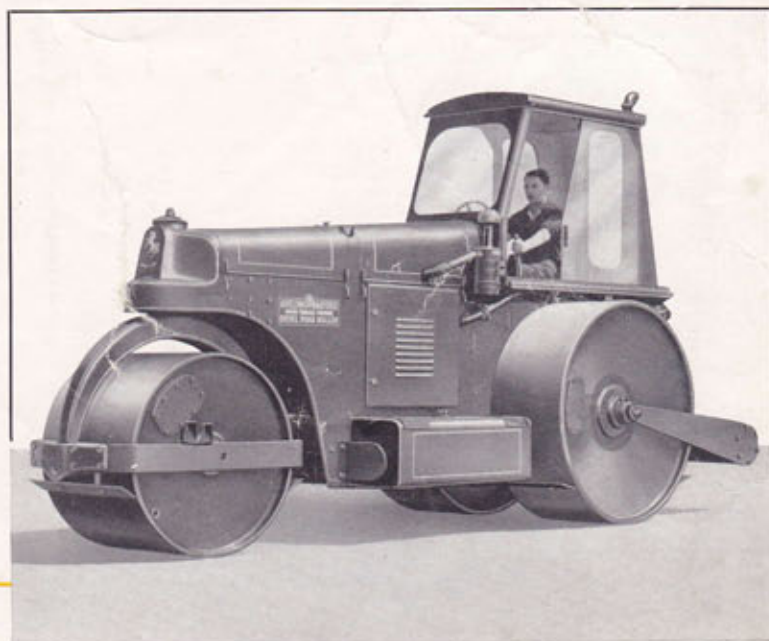
WEIGHT RANGE

21,000 lb to 29,000 lb

9525 kg to 13154 kg

*** AVAILABLE WITH**

TORQUE CONVERTER



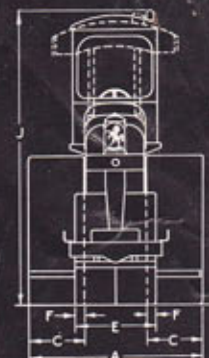
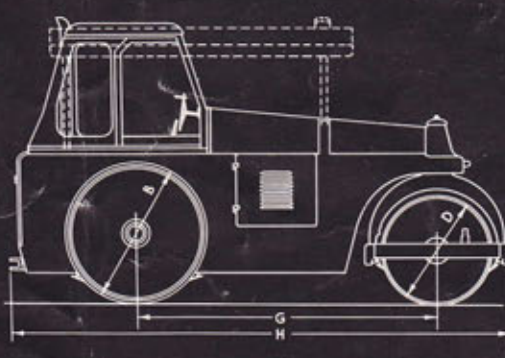
ORIGINATORS AND WORLD'S LARGEST MAKERS OF ROAD ROLLERS

No. 1782

(Revised 9.61)

DIMENSIONS

			GDR & GDQ	
			ft. ins.	mm.
A	Rolling Width	.. ..	6 - 2	1880
B	Diameter of Rear Rolls	.. ..	5 - 0½	1540
C	Width of Rear Rolls	.. ..	2 - 0	610
D	Diameter of Front Roll	.. ..	3 - 10½	1185
E	Width of Front Roll	.. ..	2 - 10	865
F	Overlap of Rolls	.. ..	4	100
G	Wheelbase	.. ..	10 - 8½	3260
H	Length	.. ..	17 - 10	5435
J	Height with Awning	.. ..	10 - 1	3075
	Height with Cab	.. ..	10 - 1	3075
	Height to Handwheel	.. ..	7 - 5	2260
Turning Radius:				
	Hand Steering	.. ..	16 - 0	4875
	Power Steering	.. ..	20 - 0	6095



WEIGHTS - in working order

Working order weights include weight of cooling water, and proportion of fuel. Weight of driver is not included. Weight of Awning or Cab and any other extra fitting is not included.

SPEEDS

Forward
and
Reverse

CAPACITIES

Weights of Extras

G
D
R

G
D
Q

Standard Machine

	lb.	kg.
Ballasted: Sand	27680	12555
Ballasted: Water	24520	11122
Without Ballast	21000	9525

m.p.h.

1.0
1.6
3.3
5.0

Fuel Tank:
20 Galls.
24 U.S. Galls.
90 litres.

Awning and Curtains	.. ..	404	183
Cab	.. ..	532	241
Water Sprinkler Tanks — Full	.. ..	1452	659
Water Sprinkler Tanks — Empty	.. ..	452	205
Hydraulic Coupling	.. ..	168	76
Power Steering	.. ..	221	100
Hydraulic Scarifier, 2 tine	.. ..	1431	649
Hydraulic Scarifier, 3 tine	.. ..	1596	724
"Price" Scarifier, 2 tine	.. ..	1194	541
"Price" Scarifier, 3 tine	.. ..	1354	614
Hand Pump and Hose	.. ..	112	51
Torque Converter (single stage)	.. ..	270	122
"Hydra-Roll" Trench Roller	.. ..	820	372
Triple plate Vibrating Compactor	.. ..	2800	1270

Standard Machine

	lb.	kg.
Ballasted: Sand	29000	13154
Ballasted: Water	25940	11766
Without Ballast	22530	10219

km./hr.

1.61
2.57
5.31
8.05

Sprinkler Tank:
100 Galls.
120 U.S. Galls.
450 litres

ENGINE - Diesel

Make	.. ..	Perkins Four 270D	.. ..	Ruston 3 YDR	.. ..	Ford 592 E
No. of cylinders	.. ..	4	.. ..	3	.. ..	4
B.H.P. (1 hr. rating)	.. ..	52 at 1500 r.p.m.	.. ..	43 at 1500 r.p.m.	.. ..	44 at 1500 r.p.m.
Bore	.. ..	4½ ins. (108 mm)	.. ..	4.375 ins. (111 mm)	.. ..	3.937 ins. (100 mm)
Stroke	.. ..	4½ ins. (120 mm)	.. ..	5 ins. (127 mm)	.. ..	4.524 ins. (114.9 mm)
Capacity	.. ..	269.5 cu. ins. (4420 c.c.)	.. ..	225.6 cu. ins. (3696 c.c.)	.. ..	220 cu. ins. (3610 c.c.)

SHIPPING SPECIFICATION (Approx.)

			Length		Width		Height		Weight		Weight	
			ft. in.	mm.	ft. in.	mm.	ft. in.	mm.	Long Tons	kg.	Long Tons	kg.
FOR SHORT SEA VOYAGE												
Roller on wheels	..	..	18-0	5485	6-2*	1880	7-0	2135	9.5	9652	10.35	10516
Roller on wheels with Hydraulic Scarifier	18-6		5640		6-7	2005	7-0	2135	10.1	10262	10.95	11121
* If "Price" Scarifier fitted add 5" (127 mm) to Width and add weight as shown above.												
FOR LONG SEA VOYAGE												
Chassis case	..	..	16-4	4980	3-10	1170	6-8	2030	5	5081	5.35	5346
Front Roll Assembly	..	..	5-9	1755	3-8	1120	5-4	1625	1.9	1930	2.25	2286
Rear Rolls—two, each	..	dia.	5-1	1550	2-0	610			1.55	1575	1.6	1626
EXTRAS												
Hydraulic Scarifier Case	..	..	6-9	2055	1-6	455	1-10	560	4875	495	4875	495
(long sea voyage)												
Resilient Scarifier	..	..			Add to Chassis Case weight				6	610	6	610
(long sea voyage)												
Awning Case	..	..	11-1	3380	5-0	1525	1-4	405	35	355	35	355
(long or short sea voyage)												
Cab Case	..	..	6-10	2080	3-8	1117	5-0	1524	4875	495	4875	495
(long or short sea voyage)												
Triple plate Vibrating Compactor:												
Attachment	..	..	6-6	1981	3-8	1117	2-0	610	975	988	975	988
Generator	..	..	4-4	1321	2-8	813	3-8	1117	5	508	5	508

For other Extras, add weight as shown above to Chassis Case or Roller on Wheels.

Dimensions, weights and other particulars shown in this leaflet are not binding in detail and the right to modify is reserved.

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AVELING-BARFORD

PNEUMATIC-TYRED ROLLERS

PTR 26	26,000 lb.	11,793 kg.
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PTR 30	30,000 lb.	13,608 kg.
---------------	-------------------	-------------------



ORIGINATORS AND WORLD'S LARGEST MAKERS OF ROAD ROLLERS

SPECIFICATION PTR 26 & PTR 30

DIMENSIONS

	ft.	ins.	mm.
Rolling width.. ..	5	8	1727
Overall width	6	0	1829
Overall length (PTR 26)	14	3	4343
Overall length (PTR 30)	14	9	4496
Overall height	8	1 $\frac{3}{4}$	2483
Wheelbase	10	6	3200
Turning radius	20	0	6096
Ground clearance (min.)		7 $\frac{1}{8}$	181
Tyre overlap			12.7
Ballast emptying holes (2 each side)	18"	11"	457 x 279

WEIGHTS - in working order

PTR 26

Sand ballasted	26,000 lb.	11,793 kg.
Empty	10,300 lb.	4,672 kg.
Ballast capacity	134 cu. ft.	3.79 cu. m.

PTR 30

Sand ballasted	30,000 lb.	13,608 kg.
Empty	14,300 lb.	6,486 kg.
Ballast capacity	132 cu. ft.	3.74 cu. m.

PRESSURES

PTR 26

Maximum load per unit of maximum tyre contact width	395 lb./in.	71 kg./cm.
--	-------------	------------

PTR 30

Maximum load per unit of maximum tyre contact width	416 lb./in.	75 kg./cm.
--	-------------	------------

TYRES

Number at front	5
Number at rear	4
Size	7.50 x 15
Ply rating	12
Tread	Smooth
Inflation pressure (max.)	110 p.s.i. 7.73 kg./sq. cm.

WHEEL OSCILLATION

The four wheels (rear) oscillate in pairs.
The five wheels (front) oscillate in two pairs, the remaining wheel being fixed.

STEERING

Hydraulically power assisted.

ENGINE

Make	Perkins Four 270D direct injection diesel
Capacity	269.5 cu. ins. 4416 c.c.
B.H.P.	62 at 2,000 r.p.m.
Bore and stroke	4.5 ins x 4.75 ins. 114.3 mm. x 120.65 mm.
Maximum torque	189 lb. ft. at 1,000 r.p.m. 26.13 kg. m.
Starting	12 volt electric

GEARBOX

Sliding mesh gears. Pressure lubricated. Four speeds both forward and reverse.

FINAL DRIVE

Adjustable 1.75 in. (44.5 mm.) pitch roller chain, running in an oil bath, to each pair of rear wheels, drives all four wheels. A differential in the gearbox distributes the drive to each roller chain.

BRAKES

Foot operated hydraulic service brake, acting on all four driving wheels. Hand operated mechanical parking brake, acting on transmission.

SPEEDS

Forward and reverse at 2,000 r.p.m.

1st 3.20 m.p.h. 5.15 k.p.h.	3rd 10.01 m.p.h. 16.11 k.p.h.
2nd 4.90 m.p.h. 7.89 k.p.h.	4th 15.30 m.p.h. 24.62 k.p.h.

FUEL TANK CAPACITY

10 Imperial gallons. (12 U.S. gallons.) 45 litres

OPTIONAL EXTRA ATTACHMENTS

Electric lights, comprising: two head lights, two tail lights, and one reversing light.
Tyre pump (mechanically driven) and hose.
Sprinkler system of 100 Imperial gallons (120 U.S. gallons.) 455 litres capacity and coco mats.
Hand pump and hoses.
Torque converter.

DISTRIBUTOR

SHIPPING SPECIFICATION (Approx.)

		Length	Width	Height	Tons
PTR 26	Roller on wheels ..	14 ft. 3 ins. 4343 mm.	6 ft. 0 ins. 1829 mm.	7 ft. 9 ins. 2362 mm.	4.7 4775 kg.
PTR 30	Roller on wheels ..	14 ft. 9 ins. 4496 mm.	6 ft. 0 ins. 1829 mm.	7 ft. 9 ins. 2362 mm.	6.5 6604 kg.

If sprinklers fitted add 0.2 tons (203 kg.). If hand pump fitted add 0.075 tons (76 kg.)

Dimensions, weights, illustration and other particulars shown on this leaflet are not binding in detail and the right to modify is reserved.

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