



12-7-71

COMPETITIVE DATA

THIS MATERIAL IS REPRODUCED FOR THE SOLE PURPOSE OF ENABLING PROSPECTIVE PURCHASERS TO MAKE COMPARISONS BETWEEN GALION'S PRODUCTS AND THOSE OF COMPETITIVE MANUFACTURER. THE GALION IRON WORKS & MFG. COMPANY MAKES NO REPRESENTATION AS TO THE ACCURACY OR CURRENT STATUS OF THIS MATERIAL.

NUMBER D-d-MG408

EFFECTIVE DATE 11-71

REPLACES -----

FILE IN SECTION H

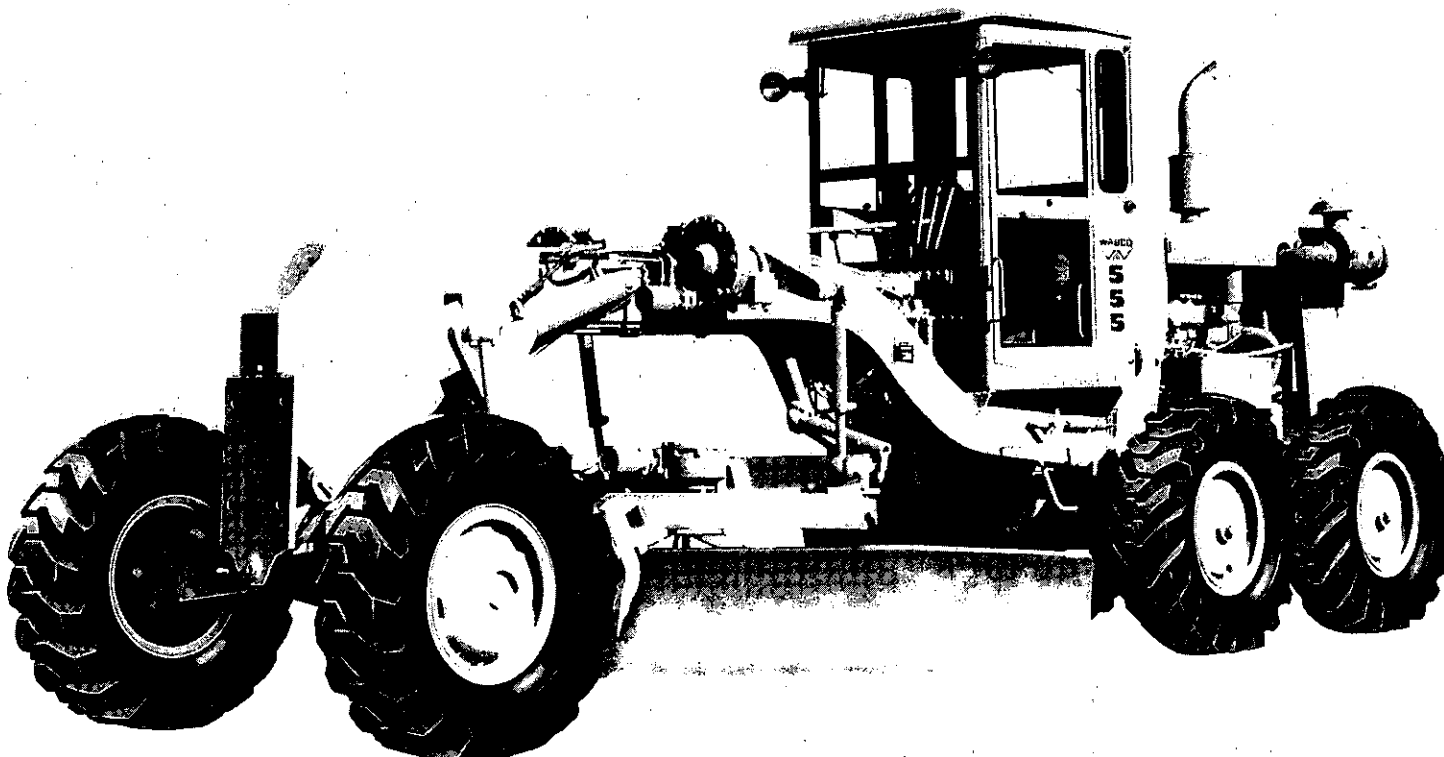
THE GALION IRON WORKS & MFG. COMPANY division of Jeffrey Galton Inc. Galion, Ohio 44833, U.S.A.



MODEL

555

MOTOR GRADER



- Choice of Detroit Diesel or Cummins engine power to match job conditions.
- Long-life oil clutch with independent oil supply.
- Ease of control and blade accuracy with hydraulic-actuated mechanical controls.
- Strong, level thrust frame . . . rugged front end.
- Designed for ease of serviceability.

555 MOTOR GRADER SPECIFICATIONS

Specifications are subject to change without notice or obligation.

WEIGHTS,

(approximate) with Standard Equipment, no accessories	With Detroit Diesel Engine	With Cummins Engine
Total	28,050 lbs. (12,723 kg)	28,420 lbs. (12,891 kg)
On Front Wheels	8,030 lbs. (3,642 kg)	8,030 lbs. (3,642 kg)
On Rear Wheels	20,020 lbs. (9,081 kg)	20,390 lbs. (9,249 kg)

ENGINE,

	Detroit Diesel 6-71	Cummins H-743-C
Diesel rubber mounted.		
Horsepower, Maximum	175	160
Net	160	150
RPM	1800	2000
Number of Cylinders	6	6
Bore	4 1/4" (108 mm)	5 1/8" (130 mm)
Stroke	5" (127 mm)	6" (152 mm)
Displacement, cubic inches	425.6 (6,97 liters)	743 (12,17 liters)
Electric starting equipment standard	12 volt	24-volt

CLUTCH

Oil type, separate pump and oil supply.

TRANSMISSION

Fully constant mesh with roller bearings used throughout.

SPEED in MPH and (Kilometers per Hour)

(variable by governor control)

First	2.3 (3,7)	Reverse, First	1.9 (3,1)
Second	3.2 (5,1)	Second	3.7 (5,9)
Third	4.6 (7,4)	Third	8.4 (13,5)
Fourth	6.5 (10,5)	Fourth	13.5 (21,8)
Fifth	10.3 (16,6)	Creepers Gears (Optional)	
Sixth	14.3 (23,0)	Creepers, First	.42 (0,68)
Seventh	16.7 (26,9)	Second	.83 (1,34)
Eighth (travel)	26.1 (42,0)	Third	1.86 (3)

OVERALL DIMENSIONS

Length	26' 5" (8.05 m)
Width	7' 9" (2.36 m)
Height with cab	10' 9" (3.28 m)
Height without cab	7' 11" (2.41 m)
Wheelbase	19' 2" (5.84 m)
Bladebase	8' 7" (2.62 m)
Tread, front	6' 4" (1.93 m)
Tread, rear	6' 6" (1.98 m)
Distance between centers of tandem wheels	5' 2" (1.57 m)
Turning radius	40' 0" (12.19 m)

SERVICE CAPACITIES	DETROIT DIESEL		CUMMINS	
	Gallons (U.S. Standard)	Liters	Gallons (U.S. Standard)	Liters
Fuel Tank	60	(227)	60	(227)
Cooling System	20	(76)	20	(76)
Crankcase (without filter)	3.5	(13,2)	5	(19)
Transmission	18	(68)	18	(68)

FRAME

All welded continuous member from front to rear, box type. Average weight per foot 189 lbs (281,3 kg/m)

DRAWBAR

Box section, 6" x 5 1/2" (15,24 cm x 13,97 cm), "T" shape with ball and socket connections.

CIRCLE

6" x 6" x 1 1/2" (15,24 cm x 15,24 cm x 3,81 cm) steel structure, 63" (1,6 m) diameter, worm and gear circle reverse, 360°.

MOLDBOARD

Wear resistant high carbon steel, multi-radii curvature.

Length, height, thickness
12' x 28" x 7/8"
(3,66, m x 71,12 cm x 2,22 cm)

Cutting edge thickness
5/8" (1,59 cm)

BLADE WORKING RANGE

Lift for ground clearance
22 3/4" (57,79 cm)

Circle side shift
36" (91,44 cm) R; 40" (101,6 cm) L

Pitch positions
11

Bank cutting angle
90°

Shoulder reach outside tires
85" (2,16 m) R; 92" (2,34 m) L

LIFTING MECHANISM

Hydraulically driven worm and gear. 3" (7,6 cm) diameter; short, straddle mounted liftshaft. Adjustable telescoping lift links with shim adjustable ball and socket connections.

CONTROLS

Hydraulic over positive mechanical worm and gear on blade lifts, side shift and circle reversing. Safety overload protection automatically resets.

AXLE, FRONT

Welded arch truss construction of 6" x 1" (15,24 cm x 2,54 cm) bars with hydraulic wheel lean. Forged, heat treated alloy steel spindles, 2 1/2" (6,35 cm) and 1 7/8" (4,76 cm) diameter at bearings. Ground clearance at center of axle 25" (63,50 cm). Hydraulically boosted mechanical steering.

AXLE, REAR

Full floating drive axle, 3 1/2" (8,89 cm) diameter of heat treated alloy steel. Axle carries no weight of the grader.

TANDEM DRIVE

Box section, 21" x 7 3/4" (53,34 cm x 19,68 cm) welded, oil tight housing. 2" (5,08 cm) pitch roller drive chain.

TIRES, FRONT AND REAR

14.00-24 tubeless; mounted on 8" (20,32 cm) demountable rims.

OPTIONAL EQUIPMENT SHOWN IN PICTURE

Cab, defroster fan, front cover, lights, scarifier, and windshield wiper.



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