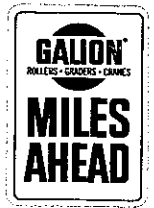
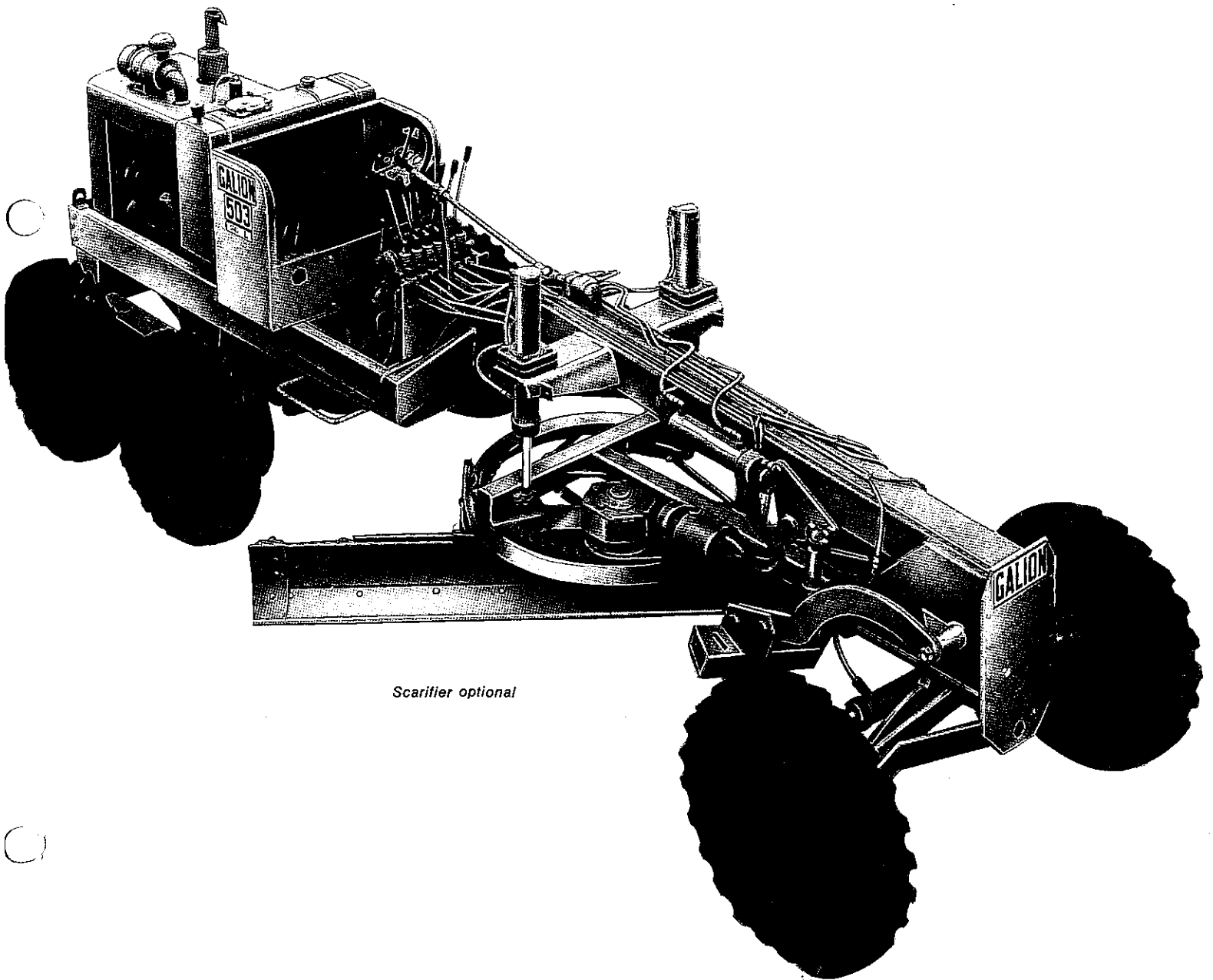


# ***The Galion 503 series L motor grader***



*10,200 lb. model...74, 68 or 62 hp...  
with 4-speed forward and reverse gear transmission*

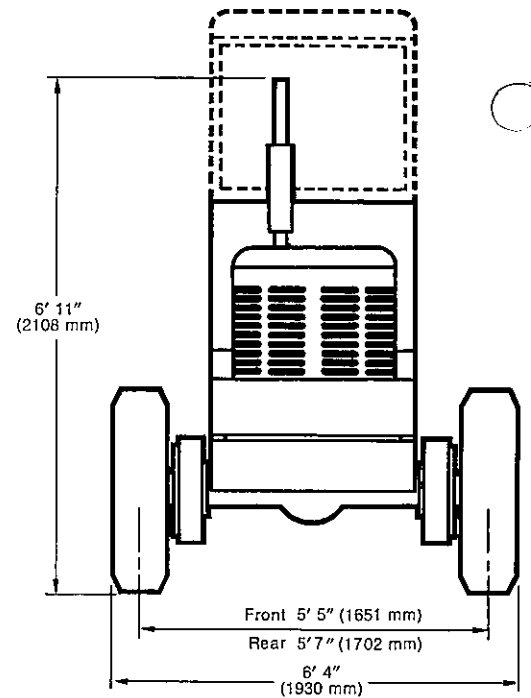


*Scarifier optional*



# The Galion 503 series L motor grader

## specifications



**Standard Equipment Features:** 12-volt electrical system, alternator, dry type air cleaner, hydraulic shiftable moldboard with replaceable end bits, hydraulic power circle reverse, electric hourmeter, horn, rain cap, muffler, engine temperature gauge, oil pressure gauge, leaning front wheels.

**Weights**—without scarifier (approx.)

Total	10,200 lbs.	(4626 kgs.)
On front wheels	3,150 lbs.	(1429 kgs.)
On rear wheels	7,050 lbs.	(3197 kgs.)

**Speeds**—Forward & Reverse—variable by governor control

	APPROX. M.P.H.	APPROX. Km. P.H.
First	.72- 2.1	( 1,1- 3,4)
Second	1.5 - 4.2	( 2,4- 6,7)
Third	3.5 -10.0	( 5,6-16.1)
Fourth	6.4 -17.8	(10,3-28,6)

**Speeds**—Forward & Reverse—variable by governor control  
(with Creeper transmission)

First	.24- .70	( ,38-1,1)
Second	.50-1.40	( ,80-2,3)
Third	1.2 -3.4	(1,9 -5,5)
Fourth	2.1 -6.0	(3,4 -9,7)

**Controls**

Type..... Full hydraulic—variable speed  
Method..... Positive hand levers in cab

**Blade Assembly**

Type ..... Hydraulic power-shift  
Moldboard, high carbon steel  
10' x 16<sup>5</sup>/<sub>8</sub>" x 5<sup>1</sup>/<sub>8</sub>" .... (3048 mm x 422 x 16 mm)  
Cutting edge thickness ... 1<sup>1</sup>/<sub>2</sub>" ..... (12,7 mm)  
Cutting edge bolts ..... 5<sup>1</sup>/<sub>8</sub>" ..... (15,9 mm)  
Blade base ..... 6'3" ..... (1916 mm)

**Blade Range**

Lift above ground (max.) ..... 12" ..... (305 mm)  
Pitch positions, number for tilting blade ..... 6  
Reach outside front tires ... 40" R or L ... (1016 mm R or L)

**Circle**

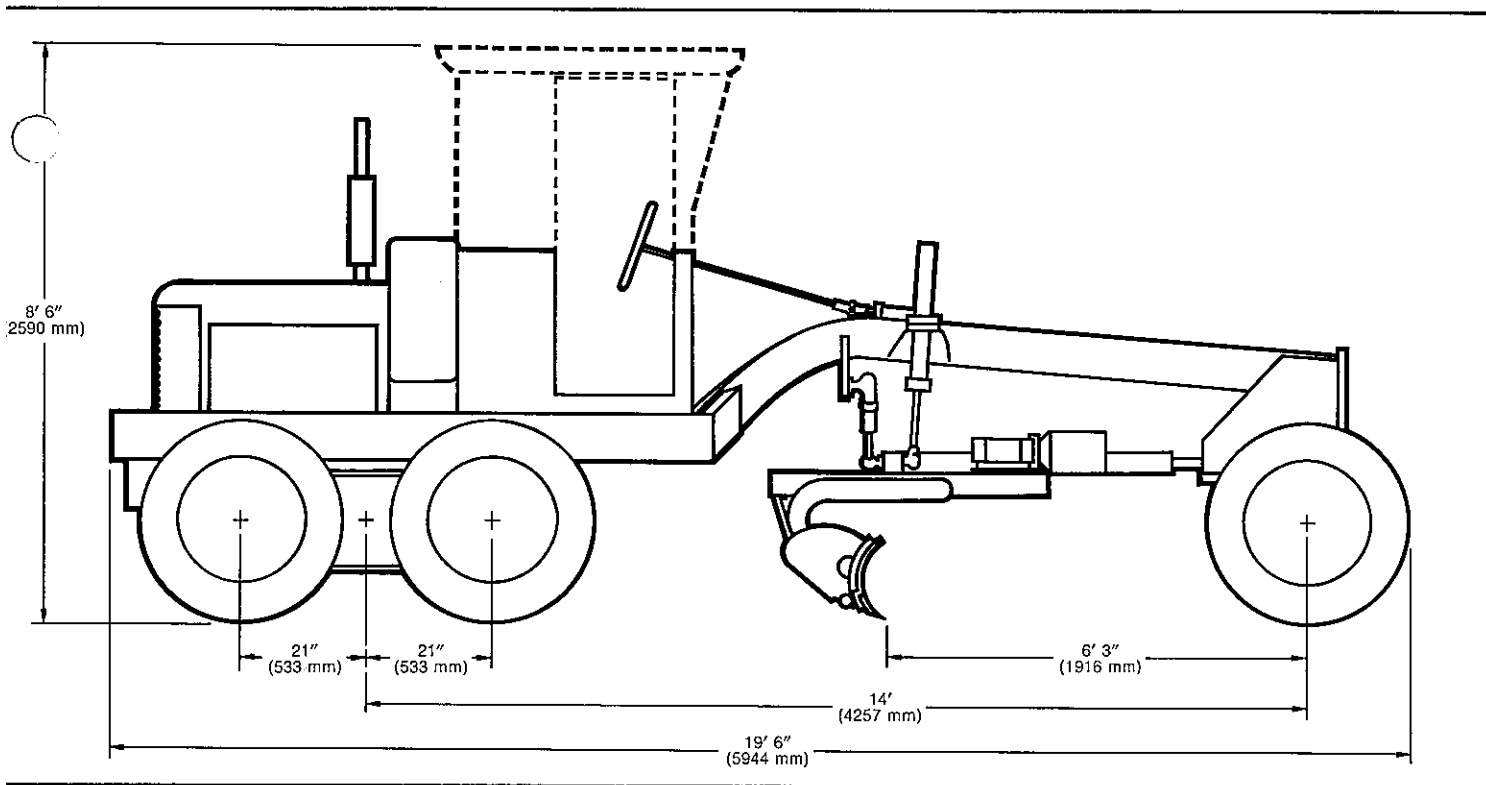
Diameter ..... 4' ..... (1219,2 mm)  
Material ..... Structural steel section  
Circle reversing control ..... Hydraulic  
Circle reverse turn ..... 154°

**Lift Mechanism**

Type ..... Hydraulic  
Lifting speed, per second  
(variable) ..... 1" to 3" ..... (25,4 mm to 76,4 mm)

**Frame**

Section, welded  
unit, box ..... 8" x 8" ..... (203,2 mm x 203,2 mm)  
Weight, per foot—  
average ..... 99 lbs. .... (44,9 kgs)  
Minimum section modulus  
(between blade lift and  
scarifier mount) .... 36.73<sup>3</sup> ..... (932,9 mm<sup>3</sup>)



### Operator's Platform

Size . . . . . 21" x 27" . . . . . (533 mm x 686 mm)  
 Height, above ground . . . . . 27½" . . . . . (680 mm)

### Axle, Front

Type . . . . . Leaning Wheels  
 Material (solid bar construction) . . . . . Welded steel sections  
 Spindle pin bearings . . . . . Roller  
 Spindle materials (heat treated) . . . . . Steel forging  
 Spindle diameter at bearings . . . 1 7/8" and 1 3/4" . . . . . (47,6 mm and 34,4 mm)  
 Ground clearance . . . . . 16" . . . . . (406,4 mm)

### Steering

Type (Orbitrol) . . . . . Hydrostatic  
 Turning radius . . . . . 25'6" . . . . . (7772 mm)

### Axle, Rear

Type . . . . . Rigid  
 Material . . . . . Forged alloy steel, heat treated  
 Diameter at bearings . . . . . 2 3/4" and 2" . . . . . (69,9 mm and 50,8 mm)

### Tandem Drive

Section, welded unit, oil-tight housing . . . . . 17 3/4" x 6 1/8" . . . . . (452 mm x 155,4 mm)  
 Wall thickness . . . . . 1/2" . . . . . (12,7 mm)  
 Roller chain pitch (double strand) . . . . . 3/4" . . . . . (19,05 mm)

### Wheels, Front & Rear

Bearings, type . . . . . Tapered roller  
 Tires, low pressure, tubed . . . . . 7.50 x 20-6 P.R.  
 Tire rims (demountable) . . . . . Flat base  
 Tread, Front (CL to CL of tires) . . . 5'5" . . . . . (1651 mm)  
 Tread, Rear (CL to CL of tires) . . . 5'7" . . . . . (1702 mm)

### Brakes

Service brakes . . . . . Mechanical, acting on transmission  
 Parking brakes . . . . . Mechanical, acting on transmission

### Engine

I.H.C. GASOLINE  
 UB-220  
 (4 cycle)

Number of cylinders . . . . . 6  
 Bore and stroke . . . 3 9/16" x 3 1/16" . . . (9,049 mm x 9,366 mm)  
 Displacement . . . . . 220 cu. in. . . . . (3605,2 cc)  
 Horsepower . . . . . 74

I.H.C. DIESEL  
 UD-236  
 (4 cycle)

Number of cylinders . . . . . 6  
 Bore and stroke . . . 3 11/16" x 3 1/16" . . . (9,366 mm x 9,366 mm)  
 Displacement . . . . . 236 cu. in. . . . . (3867,3 cc)  
 Horsepower . . . . . 68

DETROIT DIESEL  
 3-53  
 (2 cycle)

Number of cylinders . . . . . 3  
 Bore and stroke . . . 3 7/8" x 4 1/2" . . . (9,843 mm x 11,430 mm)  
 Displacement . . . . . 159 cu. in. . . . . (2608,8 cc)  
 Horsepower . . . . . 62

### Fuel Tank

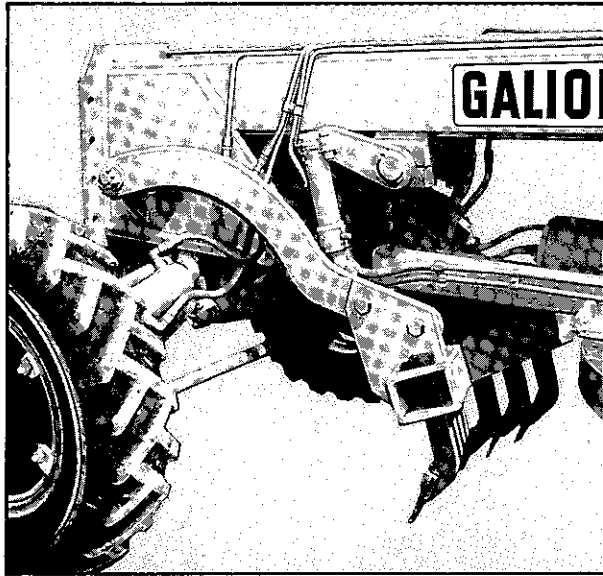
Usable capacity . . . . . 27 gal. . . . . (121 liters)

### Transmission

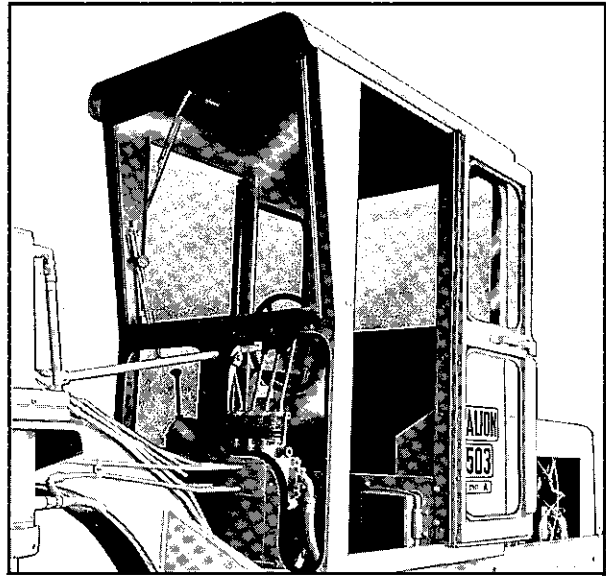
Type . . . . . Four speed forward, Four reverse

*Specifications, materials and design subject to change without notice.*

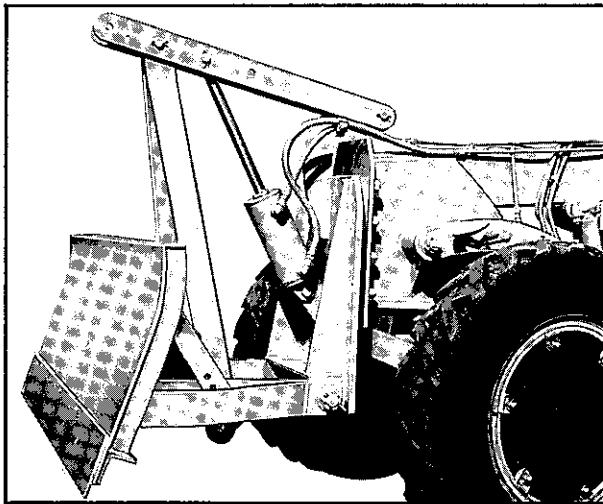
# Options and Attachments



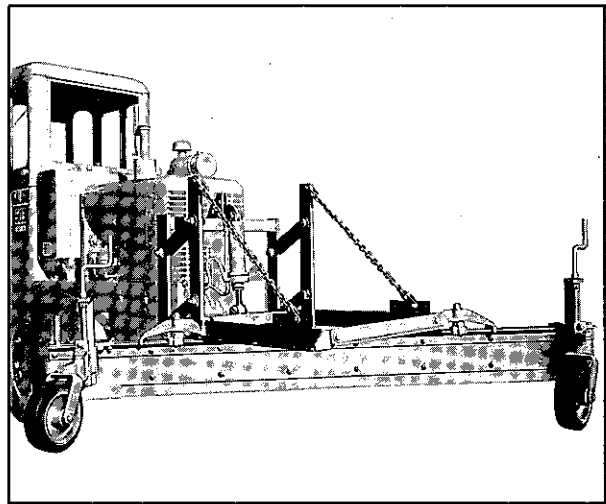
V-Type Scarifier is placed at front end of grader where downward pressure causes no loss of traction by drive wheels. Completely visible from cab. Teeth have replaceable points.



Three cabs available. A deluxe cab with large areas of tinted safety glass. A special sound suppression cab. And for added protection and comfort, a specially designed R.O.P.S. (roll-over protection) cab, which can be insulated for sound suppression.



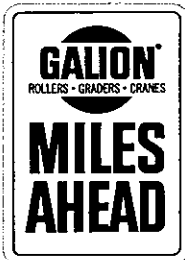
Bulldozer is designed for moderate duty operation such as back-filling. Wide-range adjustment by independent hydraulic control. Blade can be raised 15" off the ground. Size 6' 6" long by 25" high.



Windrow Eliminator fills voids, respreads or feathers out the windrow as it is formed by the grader blade. Saves time required for an extra pass. Moldboard is 10' x 12", can be angled up to 35° right or left from line of travel.

## Also available for the Galion 503 series L

- Creeper transmission
- 12' moldboard
- Moldboard extensions
- 8.25 x 20 tires
- Hydraulic jack
- Hot water cab heater
- Defroster fan
- Electric windshield wiper
- Power tire pump
- Electric lights
- Odometer
- Rear view mirror
- Four wheel hydraulic brakes
- Hood sides
- Radiator shutter
- High output alternator



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