



## COMPETITIVE DATA

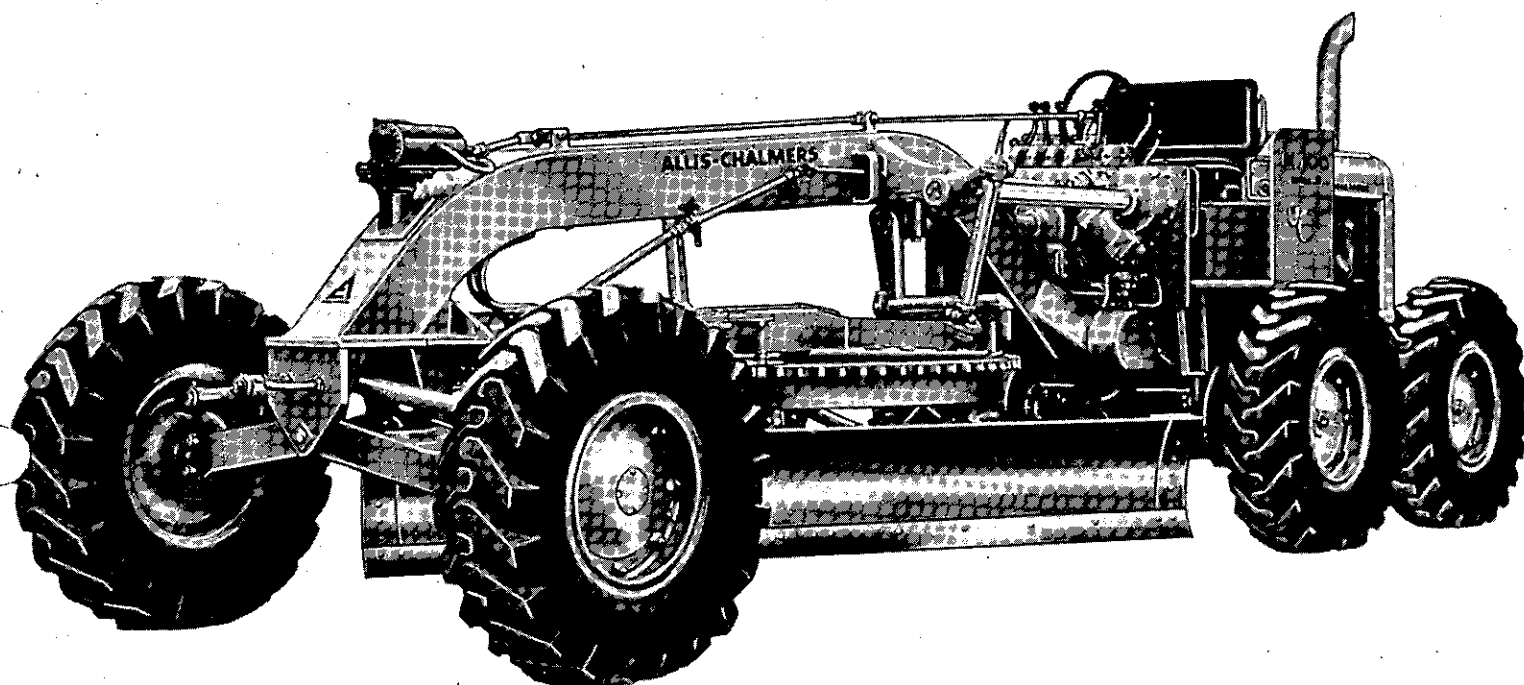
THIS MATERIAL IS REPRODUCED FOR THE SOLE PURPOSE OF ENABLING PROSPECTIVE PURCHASERS TO MAKE COMPARISONS BETWEEN GALION'S PRODUCTS AND THOSE OF COMPETITIVE MANUFACTURER. THE GALION IRON WORKS & MFG. COMPANY MAKES NO REPRESENTATION AS TO THE ACCURACY OR CURRENT STATUS OF THIS MATERIAL.

FILE IN  
SECTION:

A

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

ALLIS-CHALMERS



M100 series B MOTOR GRADER

- **ALLIS-CHALMERS 11000 SERIES DIESEL ENGINE**, 130 net flywheel horsepower.
- **WEIGHT**, 25,800 lbs. (11,702 kg).
- **PRECISION**, high-production ROLL-AWAY moldboard.
- **STRONG**, heavy duty truss type front axle with self-aligning tapered roller bearings.
- **LONG LIFE**, self adjusting, triple-disc oil clutch.
- **ACCURATE, DEPENDABLE** toggle controls, full power steering, 4-wheel power brakes.
- **BIG, STRONG CIRCLE**... a forged, seamless ring, rolled T-section... provides greater blade stability for precision grading.
- **ALL CONTROLS** enclosed and running in oil.
- **WIDE SELECTION** of Allied Equipment, including rear mounted ripper, complete line of snow removal equipment, cable layer, compaction cutter, and push plate.

ROLL-AWAY is an Allis-Chalmers trademark

# SPECIFICATIONS

## WEIGHT

Shipping (11,702 Kg) .....25,800 lbs.  
On front wheels (3,402 Kg) ..... 7,500 lbs.  
On rear wheels (8,300 Kg) .....18,300 lbs.

## ENGINE

Make and model ...Allis-Chalmers 11000  
Max. engine hp .....210  
Net flywheel hp\* .....130 @ 1800 rpm  
NACC horsepower rating .....47.3  
Bore and stroke  
(112 x 141 mm) .....4 $\frac{1}{8}$ " x 5 $\frac{1}{4}$ "  
Piston displacement  
(8455 cm<sup>3</sup>) .....516 cu. in.  
Lubrication .....full pressure

Six cylinder, four cycle, turbocharged.  
Dry-type, (305 mm) 12" air cleaner. Full  
flow oil and fuel filters. Mechanical gover-  
nor. 24-volt, direct electric starting.

\*Net flywheel horsepower: Horsepower available at  
the flywheel of the vehicle engine under SAE J816a  
conditions of 85° F (29° C) and 29.38" (746 mm) Hg.  
after deductions have been made for fan, alterna-  
tor, lube oil pump, water pump, air cleaner and fuel  
pump. This vehicle may be operated up to 12000  
ft. (3657 m) altitude without derating the engine.

## CLUTCH

Oil-type, three-disc, power-boosted.

## TRANSMISSION

Constant mesh with helical gears; pressure  
lubricated with a U-joint connection between  
clutch and transmission.

## SPEEDS

Gear	1st	2nd	3rd	4th	5th	6th
MPH	2.7	3.9	5.9	8.3	12.0	20.0
Km/h (4.3)	(6.2)	(9.4)	(13.3)	(19.3)	(32.1)	

Gear	1st Rev.	2nd Rev.	3rd Rev.
MPH	3.2	4.6	7.5
Km/h	(5.1)	(7.4)	(12.0)

Accelerator-decelerator pedal provides wide  
range of speeds. Grader can be throttled  
down under governor control, to 65% of  
these rated speeds without loss of rim pull.

## CONTROLS

Exclusive, mechanical, toggle-type control  
with jaw clutch.

## MOLDBOARD

ROLL-AWAY, involute curve with replaceable  
cutting edges and end bits.

Size (3.65 m x 610 mm x  
19 mm) .....12' x 24" x  $\frac{3}{4}$ "  
Blade pressure (6,214 Kg) ...13,700 lbs.  
with scarifier (7,166 Kg) ...15,800 lbs.  
Lift above ground (444 mm) .....17 $\frac{1}{2}$ "  
Max. side shift .....(1.24 m) 49" R  
(1.09 m) 43" L  
Shift on moldboard arms (685 mm) 27" R  
(533 mm) 21" L  
Pitch positions .....9  
Bank cutting angle .....90°  
Reach outside rear wheels (2.33 m) 92" R  
(2.18 m) 86" L

Side shift enclosed and running in oil.

ROLL-AWAY is an Allis-Chalmers trademark.

## LIFTING MECHANISM

Type .....Enclosed worm and  
gears running in oil  
Dia. lift shafts (82 mm) .....3 $\frac{1}{4}$ "  
Crank rotation .....308°  
Length of lift cranks (355 mm) .....14"  
Lift link dia. (47 mm) .....1 $\frac{1}{8}$ "  
Lift link connections .....Ball and socket,  
shim-adjustable  
Lifting speed (57.6 mm) ..2.27 in. per sec.

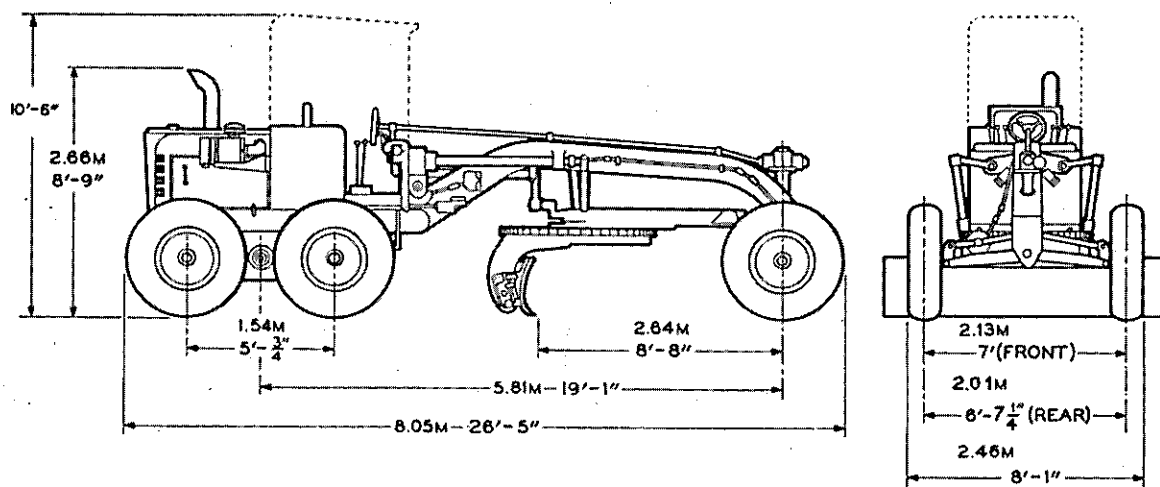
## CIRCLE

Outside diameter (1.75 m) .....69"  
One-piece, rolled T-section  
(177 x 168 x 38 mm) ..7" x 6 $\frac{3}{8}$ " x 1 $\frac{1}{2}$ "  
Degrees turn .....360°  
Circle turn gears enclosed and running in  
oil.  
Total wear plate area  
(2,083 cm<sup>2</sup>) .....323 sq. in.

## DRAWBAR

Type .....welded box, T-shape  
Size, main box  
(177 x 171 mm) .....7" H x 6 $\frac{3}{4}$ " W  
Connection .....shim-adjustable  
ball and socket

## DIMENSIONS



### FRAME

Welded box (254 x 285 mm) 10" x 11 1/4"  
 Minimum wt. (171 Kg/m) 115 lbs./ft.  
 Average wt. (278 Kg/m) 187 lbs./ft.  
 Maximum wt. (630 Kg/m) 424 lbs./ft.

### AXLE — FRONT

Hi arch, welded steel truss type with shim-adjustable (63.5 mm) 2 1/2" and (44.4 mm) 1 3/4" tapered and straight roller bearings on heavy-duty spindles. Wheel lean 16 1/2° right and left; all gears enclosed and running in oil.

Clearance at centerline (673 mm) 26 1/2"

### STEERING

Type full power  
 Ratio 14 to 1  
 Turning radius (10.97 m) 36'

### AXLE — REAR

Rigid, heat-treated steel with tapered roller bearings.

Diameter at bearings (114 mm) 4 1/2"

### TANDEM DRIVE HOUSING

Welded box section, (15.8 mm) 5/8" thick walls, (50 mm) 2" pitch roller chain, interchangeable axles and sprockets, mounted on self-aligning roller bearings.

### WHEELS AND TIRES

Heavy-duty, demountable rims with six 13.00 x 24 (10 PR) tubeless tires.

### OPTIONAL TIRES (TUBELESS)\*

13.00 x 24 — 8 PR  
 13.00 x 24 — 12 PR  
 14.00 x 24 — 10 PR  
 14.00 x 24 — 12 PR  
 17.50 x 25 — 12 PR

\*Tube type also available.

### BRAKES

Self-adjusting, four-wheel power brakes. Diameter (431 mm) 17"; width (101 mm) 4". Expanding shoe hand brake, mounted on transmission bottom shaft.

### CAPACITIES

	Liters	Gallons
Fuel tank	208	55
Cooling system	34	9
Crankcase (and clutch)	15.1	4
Transmission	15.1	4
Tandem housings, each	30.2	8
Hydraulic system	37.8	10

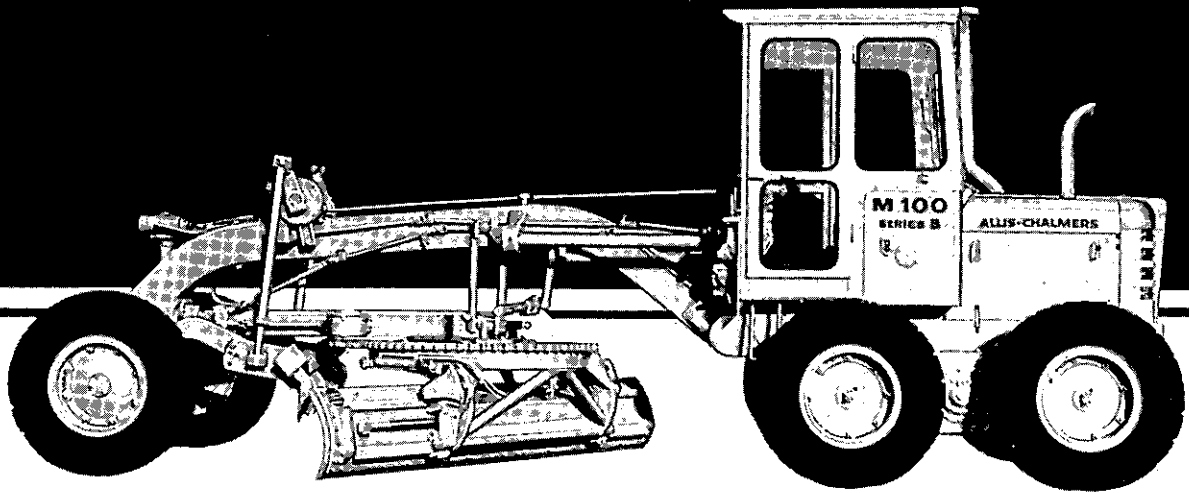
### OPERATOR'S COMPARTMENT

Flat platform (1.44 m x 812 mm) 57" x 32". Adjustable foam rubber seat and back rest. Direct, 24-volt electric push button starting. All gauges and controls in operator's compartment.

### STANDARD EQUIPMENT

Includes full power steering; self-adjusting four rear wheel power brakes; three-disc power oil clutch; direct electric starting; 24-volt electric system; red stop light; horn; adjustable seat; foot accelerator-decelerator; (3.66 m) 12-ft. manual shiftable moldboard; six 13.00 x 24 (10 PR) tubeless tires; rear bumper; dry-type air cleaner with safety element and service indicator.

The information contained herein is general in nature and is not intended for specific application purposes. Allis-Chalmers reserves the right to make changes in specifications shown herein or add improvements at any time without notice or obligation. Illustrations show standard and non-standard items.



### OPTIONAL ATTACHMENTS

#### Scarifier

Weight (627 Kg) .....1382 lbs.  
 Width of swath (1.17 m) .....46"  
 Number of teeth .....11  
 Tooth spacing (114 mm) .....4½"  
 Lift above ground (305 mm) .....12"  
 Number of pitch positions .....4  
 Ground pressure (4536 Kg) .10,000 lbs.  
 Power lift control .....Mechanical

Cab, heater, defroster, windshield wipers,  
 hour meter, special lighting equipment, hood  
 side plates.

Mechanical side shift moldboards (3.96m)  
 13' and (4.26 m) 14'

Hydraulic shiftable moldboards (3.66 m)  
 12', (3.96 m) 13' and (4.26 m) 14'

Blade extensions (610 mm) 2'

Hydraulic moldboard pitch control

Special application end bits

Special tires, wide base rims, power tire  
 pump, calcium chloride for all tires

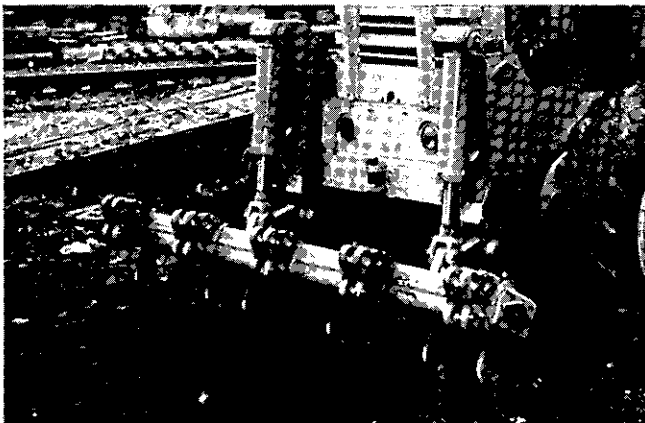
Heavy-duty lube and fuel filters, rain cap,  
 rain shield

Front and rear pull hooks

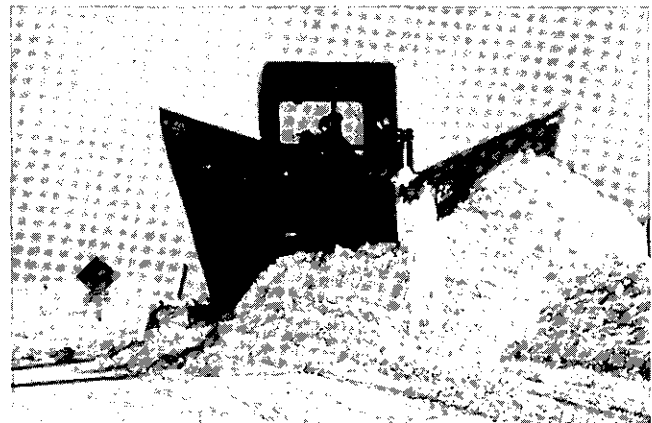
Tool kit

Special painting

### ALLIED EQUIPMENT AVAILABLE THROUGH YOUR ALLIS-CHALMERS DEALER



**ATECO RIPPER** — manufactured by American Tractor Equip-  
 ment Corp., Oakland, Calif. and Franklin Park, Ill.



**SNOW PLOWS** — The M-100 converts to a powerful snow  
 plow for year 'round versatility. V, wing type, rotary, and re-  
 versible trip blade plows are available.

 **ALLIS-CHALMERS**

CONSTRUCTION MACHINERY DIVISION  
 SPRINGFIELD, ILLINOIS 62705