



# A-550

Articulated  
Motor Grader

- DRESSER Turbocharged Engine... Gross hp 177 (132kW)
- Operating Weight 32400 lb (14727 kg)
- Full Powershift Transmission



# DRESSER A-550

## Articulated Motor Grader

- Machine design provides excellent visibility, ease of operation and operator comfort
- Frame articulation provides choice of straight, articulated or crab steering
- Efficient performance package: integral torque converter; single range full power shift transmission; NoSpin differential
- Anti-drift check valves on all hydraulic cylinders

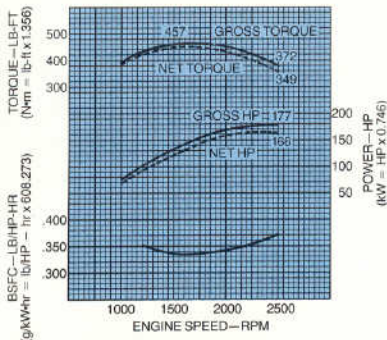


Here's a grader with a winning combination... operator comfort, maneuverability and efficiency. Offering a choice of steering for exceptional flexibility, the A550 turns in a radius less than the length of the grader itself. Machine design enhances operator visibility and eases operation. Full power shift transmission, torque converter, and NoSpin differential maximize performance on any assignment.

### ENGINE

Make and Model	DRESSER D505T
Type	4-cycle diesel, turbocharged
No. of cylinders	6
Piston displacement	504.5 in <sup>3</sup> (8.27 L)
Bore and stroke	4.49" x 5.32" (114 x 135 mm)
Gross horsepower @ 2500 rpm	177 (132 kW)
Net flywheel horsepower @ 2500 rpm	166 (124 kW)
Compression ratio	17:3.1
Main bearings	7
Lubrication	Gerotex Gear Pump
Fan - 6 blade	suction
Air cleaner	two stage dry type
Electrical	12 volt w/alternator
Batteries (2)	12 volt

Gross horsepower is for engine equipped without fan. Net horsepower is for engine equipped with lubricating oil pump, fuel pump, water pump, fan, air cleaner, alternator (not charging) and muffler.



### TRANSMISSION & TORQUE CONVERTER

Full powershift transmission with integral torque converter.

### SPEEDS

(Variable speed governor.)

Gear	Forward		Reverse	
	mph	km/h	mph	km/h
1st	0- 3.5	0- 5.6	0- 3.5	0- 5.6
2nd	0- 5.1	0- 8.0	0- 5.1	0- 8.0
3rd	0- 6.1	0- 9.8	0-12.8	0-20.6
4th	0- 9.0	0-14.5		
5th	0-12.8	0-20.6		
6th	0-22.6	0-36.4		

### CONTROLS

Load sensing closed center hydraulics with variable displacement pump. Direct acting control valves with pre-selected maximum flow setting to each function. Double acting antidrift check valves on blade lift, tilt, circle shift, articulation, leaning wheels and scarifier.

### MOLDBOARD

Type	17" (432 mm) radius hydraulic power shift
High carbon steel	12" x 26" x 7/8" (3058 x 661 x 22 mm)
Cutting edge thickness	0.62" (16 mm)
Cutting edge bolt diameter	0.62" (16 mm)
Blade base	98" (2489 mm)
Replaceable end bits (size)	0.62" x 6" (16 x 152 mm)

### BLADE RANGE

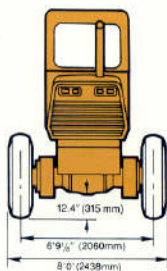
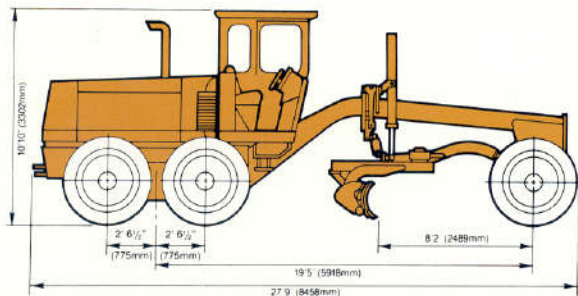
Lift above ground (max.)	20.5" (520 mm)
Pitch angle, Power-Tilt	39°
Max. reach outside rear tires, (frame straight)	
(right)	76" (1930 mm)
(left)	79" (2007 mm)
Max. circle side shift, hyd. cylinder	20.625" (524 mm)
Max. blade side shift, (right)	24" (610 mm)
(left)	26" (660 mm)
Bank cutting angle (max. right or left)	90°
Max. cutting depth	34" (864 mm)

### CIRCLE

Diameter (outside)	60.50" (1537 mm)
Material	flame hardened teeth
Circle reversing control	Hydraulic, 360°
Four large 24" circle support shoes	

### DRAWBAR

T-shape, welded construction 6" x 6.88" x .88" (152 x 175 x 22 mm) shim adjustable ball socket.



## FRAME

Articulation	20° R. or L.
Section, welded unit	11.50" x 11.75" (292 x 298 mm)
Minimum section modulus (between blade lift and head-block mount)	134.5 in <sup>3</sup> (2205 cm <sup>3</sup> )
Weight, per foot (average)	257 lbs (117 kg/m)

## OPERATOR'S COMPARTMENT

Suspension seat, adjustable to operator height and weight.	
Platform	28.50" x 50" (725 x 1270 mm)

## AXLE, FRONT

Oscillation, total	36°
Wheel lean angle, left or right	17½°
Material	solid bar construction welded steel sections
Spindle diameter at bearings	3.38" and 2.12" (86 and 54 mm)
Ground clearance @ pivot	24.2" (614 mm)

## STEERING

Type	Hydrostatic (Orbitrol)
Minimum turning radius	24'4" (7.4 m)

## AXLE, REAR

Type	Planetary
Material	Alloy steel, heat treated
Differential	Spiral bevel gears with NoSpin

## TANDEM DRIVE

Oscillating welded box section, oil-tight housing	23.50" x 8" (597 x 203 mm)
Sprocket drive chain	2" (51 mm) pitch

## WHEELS, FRONT AND REAR

Bearings, type	Tapered roller
Tires, low pressure, tubeless	14.00 x 24—10 P.R.
Tire rims (demountable)	10" semi-drop center

## BRAKES

Service brakes	4-wheel dual system hydraulic self-adjusting with power booster
Size	17" x 4" (432 x 102 mm)
Parking brake	Mechanical calliper acting on axle input

## CAPACITIES

	US gal	(Litre)
Fuel tank (usable)	71	(269)
Hydraulic system	26	(98)
Transmission	7	(26.50)
Tandem housing (each)	8	(30.28)

## OPERATING WEIGHTS Approx.

Includes lubricants, coolant, full fuel tank and operator.	
Total	32 400 lbs (14 727 kg)
On front wheels	9176 lbs (4171 kg)
On rear wheels	23 224 lbs (10 556 kg)

## INSTRUMENTATION Mounted in lighted panel

Hourmeter, voltmeter, articulation indicator. Gauges—fuel gauge, pressure, engine oil, transmission oil. Temperature—transmission oil, engine coolant. Warning lights—parking brake, transmission oil temperature and pressure, engine oil pressure, engine coolant temperature, transmission filter.

# DRESSER

## A-550

### Articulated Motor Grader

Nebraska Tractor & Equipment Company

OMAHA \_\_\_\_\_ 402-331-9200  
GRAND ISLAND \_\_\_\_\_ 308-384-2620  
NORTH PLATTE \_\_\_\_\_ 308-532-8183

#### STANDARD EQUIPMENT

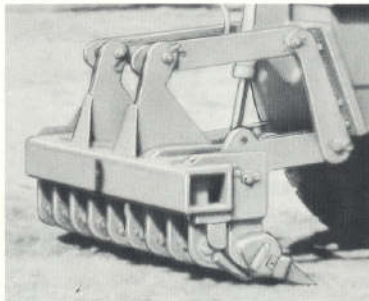
- Air cleaner—dual element, dry type w/precleaner and service indicator
- Alarm—back-up
- Alternator—105 amp
- Batteries—heavy duty
- Brakes—hydraulic, four wheel dual system with hydraulic power boost and mechanical parking brake
- Cab—deluxe enclosed ROPS with sound suppression
- Console—adjustable
- Control valve bank—9-station
- Decelerator/accelerator
- Dome light, double
- Engine—DRESSER turbo-charged diesel
- Electrical system—12 volt
- Frame articulation
- Full hydraulic steer—leaning front wheels
- Heater—40,000 BTU with twin fans
- Hoodsides
- Horn
- Hydraulic side shift and blade tilt
- Inside mirror
- Keyed doors
- Lights—back up, stop/tail—rear mounted, two rear and two front mounted directional with hazard switch, two halogen hi-lo beam headlights—cab mounted
- Moldboard—12' x 26' x 7/8"—17" radius with replaceable end bits
- NoSpin differential
- Planetary final drive
- Seat, suspension—deluxe, adjustable
- Seat belt
- Storage compartment
- Throttle—hand control
- Tinted safety glass
- Tires—14.00 x 24-10 P.R. w/10" rims—tubeless
- Tool box
- Transmission—full power-shift with integral torque converter
- Windshield wipers and defroster—front/rear

#### OPTIONAL ATTACHMENTS

- Accumulators—anti-shock for blade lift and circle sideshift
- Air conditioning
- Automatic radiator shutter
- Auxiliary hydraulic manifold
- Cab pressurization
- Engine alarm system, audible for high coolant temperature and low oil pressure
- Engine block heater
- Engine cold weather starting aid
- Moldboard extensions
- Moldboard float
- Optional lighting
- Optional tires
- Outside mirrors
- Pusher blocks, 1000 lb. and 2000 lb.
- Ripper—rear mounted
- Scarifier—46", 11 tooth
- Tachometer
- Windshield washers
- Windshield wipers, two lower dual
- Wheel weights



Scarifier has durable heat-treated tips, can rip through many surfaces including tough bituminous concrete. Hydraulically controlled. Cuts 46" (1168.4 mm) swath.



Rear-mounted ripper/scarifier. Single hydraulic cylinder for down pressure—ground penetration from 12 1/2" (317.5 mm) to 18 1/2" (470 mm). Swath width is 84" (2133.6 mm). Cut angle can be varied. Standard assembly—3 ripper shanks with replaceable tips. Provision for 5 shanks on 21" (533.4 mm) spacing. Can be equipped with optional set of 9 scarifier shanks. Ground clearance in raised position is 19 1/2" (495.3 mm).



Quick coupler system is designed for fast changes of grader attachments to add to the efficiency of your operation. Attachments are changed in seconds by the operator without leaving the cab.

Specifications subject to change without notice. Illustrations may include optional equipment and accessories and may not include all standard equipment.



AD-70124-S 9/87 20M



LITHOGRAPHED IN U.S.A.



Dresser Construction and Mining Equipment



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