



RM180 BOOM PRODUCT SPECIFICATION SHEET

It is the purpose of this specification to describe an 18', rear-mounted, hydraulically powered boom mower for cutting grass and brush on roadsides and other areas that are not accessible to conventional mowing equipment.

BASIC FEATURES

- 18'1" minimum horizontal reach.
- 22'4" minimum vertical reach.
- TBD minimum below grade reach.
- Two section articulated boom.
- 48" rotary cutting head (specifications listed separately).

METHOD OF ATTACHMENT:

The mainframe shall mount to the rear of the tractor utilizing a standard Category II three-point hitch.

BOOM FEATURES & CAPABILITIES:

Boom Movement:

Standard boom functions shall include vertical lift, head tilt and dipper reach.
A lift float kit featuring a nitrogen accumulator shall be included as standard equipment.
All boom and/or cylinder pivot points shall be greaseable.

Boom Cutting Heads:

The manufacturer shall offer the following mowing heads for cutting grass and light brush up to 2" in diameter.

- 48" Standard Duty Flail – Direct Drive- Super-Cut Shaft- Choice of F91- Y-Knives, Single Edge Cast, Forged Boot Flails
- 48" Medium Duty Flail- Direct Drive- Multi-Cut Shaft- Choice of F10- Y-Knives, Single Edge Cast, Forged Boot Flails
- 48" Light Duty Rotary- Single-Leaf Bar With Pan- Fan-Type Grass Blades – Direct Drive: 620 lbs. - Will Include **Buzzer Kit** to alert operator of boom arm contact with forward stop.
- 60" Medium Duty Rotary- Direct Drive- 3-Leaf Stacked Blade Bar or Single Disc Carrier, 2- Straight Blades- Direct Drive (Requires larger tractor than minimum specs call out for) (Cuts Grass and Light Brush Material up to 4" Diameter) Will Include **Buzzer Kit** to alert operator of boom arm contact with forward stop.

Cutter head operation shall be controlled by an electrical switch which engages the cutter valve on the mower frame.

OPERATION & POWER:

Hydraulics:

The unit shall feature a 55 hp, self-contained hydraulic system for the mowing head and boom control circuit.

A two section, gear-type pump shall be direct-coupled to a speed increaser which is mounted to the mower frame.

A Series 40 (Category III) driveline will interface between the tractor PTO and speed increaser. The driveline must feature a greaseable telescoping shaft and universal joints.

Hydraulic Reservoir:

53 gal. Hydraulic Oil reservoir

The reservoir shall feature an oil level sight glass to insure that a proper working volume is maintained.

Convenient access points for draining and cleaning of reservoir shall be included.

Cylinder Control Valve:

The unit shall feature a stackable, three-spool, directional control valve mounted on the mower frame.

All functions shall be operated by electronic joystick control.

The operator shall have the ability to manipulate all three functions simultaneously.

TRACTOR REQUIREMENTS:

The tractor shall feature a minimum rating of 65 PTO horsepower.

The suitable tractor shall weigh a minimum of 7,715 lbs.

The tractor must be equipped with a standard 540 rpm PTO output shaft.

MISCELLANEOUS:

Optional Equipment:

Axis-Cable Control Package in place of Electronic Joystick

Side Gauge Wheel Kit- Can be installed on Rotary Heads

Weights:

The base machine shall weigh 2,392 lbs. when filled with oil.

48" Standard Duty Flail Head- Direct Drive: 309 lbs.

48" Medium Duty Flail- Direct Drive: 520 lbs.

48" Light Duty Rotary- Single-Leaf Bar With Pan- Fan-Type Grass Blades – Direct Drive: 620 lbs.

60" Medium Duty Rotary- 3- Blade Bar- Straight Blades- Direct Drive: 915 lbs.

Parking/Storage:

Integrated parking stands shall be included as standard equipment so that the mower may be easily removed for out-of-season storage.

Warranty:

There shall be a one year parts and labor warranty. Non-governmental users are subject to modified policy. Only Alamo Industrial (OEM) parts may be used for warranty replacement.