

ALAMO INDUSTRIAL SPECIFICATIONS



With a 60” Side-Mounted Hydraulic Rotary Mower

It is the purpose of this specification to describe a mid-mounted, hydraulically-powered rotary mower for cutting grass and brush along roadsides. The unit bid shall be the manufacturer’s current production that meets or exceeds the following minimum specifications. Only a standard production machine can be bid on these specifications and a supplier will not be allowed to modify his standard production unit in order to meet these specifications.

Frame:

Shall be a minimum of 5/8” welded plate, bolted to the front bolster and mid-section of the tractor. _____

Lift Arm:

Shall be constructed of a box-channel design. The design shall incorporate a lift and tilt cylinder. _____

The lift cylinder shall be mounted to allow for 30” of curb height adjustment. _____
The tilt cylinder shall be mounted to a four-bar parallel linkage to allow continuous head angle throughout the full range of curb lift, and 180 degrees of head tilt. _____

Tilt and lift cylinders shall be a minimum of 3-1/2” bore, 1-1/2” rod using double lip “U” cup seals. _____

Hydraulic Reservoir:

Shall have a front-mounted, 17-gallon reservoir with built-in oil level sight glass and thermometer. _____

Filter:

The unit shall have a minimum of a 10-micron filter with an ISO cleanliness code of 18/13 and a full flow of 35-GPM. _____

Hydraulics:

Shall have a closed-loop hydrostatic piston pump, rated at 46 GPM at 3600 RPM and 5000 PSI. _____

The front pump shall be idle during transport. _____

Driveshaft assemble to the pump shall be rated at a minimum of 371 ft. lbs. of torque. _____

All motor circuit hoses shall be a minimum of 1” four-wire braid with an SAE rating of 100R12. _____

The mower deck hoses shall be a four-wire braid SAE 100R12 _____

Cylinder Valve:

Metering type sectional spool valve rated at 3500 PSI at 20-GPM. _____

Spool detent for tilt function. _____

Cable-operated joystick control. _____

Safety:

The mower cutter bar shall have a 6-second emergency shut-down.

The mower head motor shall take 6-seconds to wind up to full RPM -no shock.

60" Rotary Head:

The rotary mower shall have a minimum of 59 3/4" cutting width:

The top deck shall be a minimum of 10 ga. steel.

The side skirts shall be a minimum of 3/8".

The top deck shall be reinforced with channel frame with a reinforced spindle mount-plate.

The head shall have full-length, replaceable skid shoes.

The spindle shall be a minimum of 4-1/2" x 9" heat-treated 4140 alloy steel.

Spindle bearings shall be tapered roller bearings, 2-1/2" ID top and 2-5/8" ID bottom in a sealed housing.

The spindle housing shall be cast steel unibody design.

The motor drive shall be direct drive, splined and totally enclosed, excluding chain couplers or flex couplers.

The blade carrier shall be pan or bar that is a minimum of 3/8" thick, 36-1/8" diameter with 1" thick reinforcement.

The blades shall be full-swing (360-degrees), lift-type, heat-treated steel that are 1/2" x 4".

Shoulder bolts shall be 1-1/8" x 3" heat-treated, grade 8 with castle nut and roll pin.

The motor shall be cast iron, piston-type, rated at 199 HP at 4100 RPM and 6000 PSI.

The motor spindle speed shall be a minimum of 1220 RPM and 1910 in. pounds of torque

Rear roller shall have a full-length roller to gauge cutting height.

The roller shall be made with a minimum of 6" OD x 1/4" wall tubing.

Cutting height shall be adjustable from 1/2" to 6".

Safety Shields:

The front shield shall be a minimum single row 5/16" chain, 11 strans per foot with 3/4" spacings.

The rear shield shall be no less than rubber/fabric material.

Optional Equipment:

Special paint.