

ALAMO INDUSTRIAL SWITCHBLADE- SICKLE BAR MOWER

General Specifications

It is the purpose of this specification to describe a hydraulically powered sickle bar mower. The Switchblade is a sickle- type mower offered both in single and dual wing configurations. This unit is designed to provide precision cutting through grass and weeds up to ½ inch in diameter.

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HYDRAULICALLY-OPERATED:

The hydraulic power for the Switch Blade mower shall be supplied by a front-mounted pump driven from the tractor's engine crankshaft.

KNIFE AND CUTTERBAR:

The cutter bars shall be available in 5 foot and 6 foot lengths with a series of 3 inch wide, heavy-duty, industrial rock guards which can be used in both single and dual wing configurations.

Adjusting the lead angle shall be easily accomplished.

The tilt adjustment of the bar shall be easily made to any angle between a positive 10 degrees and a negative 10 degrees from its 0 degree centerline (to provide 20 degrees of total movement).

The cutter bar shall be full-floating, permitting the inner shoe to follow the terrain contour.

SHOE SOLES:

Shoe soles shall be constructed of 3/16 inch abrasion-resistant steel, 360 minimum Brinell, and shall be easily replaced.

HYDRAULIC MOTOR:

The hydraulic motor shall be mounted on the cutterbar and directly coupled to the cutter drive unit. The drive unit shall be a gear-drive planetary-type specifically excluding a pitman arm.

The hydraulic motor shall be operated from a control near the operator and shall be reversible, in any cutterbar position, to clear the knife if plugged. The motor control shall be an electric over hydraulic type with a switch that prevents the tractor from starting with the motor engaged.

There shall be no belt drive on the unit.

HYDRAULIC CONTROLS:

The cutterbar position controls shall be hydraulically-operated and located near the operator.

The controls shall be capable of operating two cylinders which position the cutterbar at angles ranging from 90-degrees above horizontal to 75-degrees below, and from 2 inches below grade to 12 inches above grade while in horizontal cutting position.

The hydraulic circuit shall be capable of supplying full-system flow to the cutterbar motor while the position controls are operated.

The hydraulic control valve shall incorporate check valves to lock and hold the cutterbar position.

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KNIFE OBSTRUCTION RELIEF:

A suitable relief valve shall be provided in the hydraulic circuit to protect the knife and other mower components from damage if the knife jams.

CUTTERBAR SAFETY BREAKAWAY:

The cutterbar shall be equipped with an automatic, self-returning, breakaway system so that it will break back from obstructions and return to normal position without need of operator attention. The breakaway system shall include an elastomeric shock absorber for soft return to position. The breakaway swing shall be 90-degrees maximum.

MOUNTING:

The mower shall be side-mounted to the tractor, ahead of the right rear wheel.

SAFETY UP-LOCK:

The unit shall be equipped with a mechanical safety transport lock, which removes the load from the hydraulic cylinders.

WEIGHT:

The mower and mount kit shall weigh a minimum of 500 lbs.

WARRANTY:

Minimum one-year parts and labor pursuant to standard limited warranty. Non-governmental users may be subject to a modified policy.
