



Missouri Department of Transportation

60" (5 Foot) RIGHT SIDE-MOUNT 'DOUBLE WALL' ROTARY MOWER SPECIFICATIONS

GENERAL – The intent and purpose of this specification is to establish minimum quality, safety and performance standards for heavy-duty 60" (5 foot) right side-mount rotary mower with dual deck wall design to be mounted between the front and rear wheels. The purpose of this specification to specify a mower engineered and designed that will assure Highway right-of-way mowing, including ditch banks and roadsides with a minimum amount of down time. Mower shall be fully equipped (including counterbalances/oil reserve), capable of mowing in a declined or inclined position. This unit shall be of the manufacturer's current production model. Parts and service availability must be within 24 hour of contact. No boom type mowers. Main application should be interchangeable with ditchers, flail heads and other mowers.

DRIVE – The mower shall be rotary type, hydraulically provided. The output shaft of gearbox shall be the spindle for the blade carrier assembly.

SPINDLE – Shall be one (1) piece forged alloy steel, of bearing type, sealed in oil.

BLADE CARRIER – Equipped with stump-jumper, applicable to type, brand, or model being used.

CUTTER – Two (2) cutter knives standard, capable of accommodating up to six, ½", heat treated, full swinging suction knives; knives shall be attached with heat treated shoulder and keyed bolts, backed with preferred T-1 spacer and hex lock nuts. Actual cutting width is 60" and adjustable mowing height, 4" minimum.

LIFT CONTROLS – Shall be minimum two (2) single acting hydraulic cylinders.

HYDRAULICS MOTOR & PUMP – Motors shall have cast steel housing with steel gears; minimum 95 hp hydraulic pump; Minimum 60 gallon hydraulic reservoir.

DECK STRUCTURE – Shall have multilayer yielding minimum of 110,000 PSI, fully enclosed, ribbed construction, minimum 5/32" steel bottom, minimum 1/8" smooth top, crowned. Deck side walls shall be minimum of two (2) layers withstanding 110,000 PSI yielded steel. Replaceable, full length inner and outer, abrasion resistant shoes.

SAFETY – The mower shall have safety chain guards on front and rear to protect the area surrounding the mower from flying objects. Travel and transport locks shall be required. Unit shall meet or exceed all applicable ANSI, ASAE, SAE test standards.

COLOR – Color to be manufacturer's standard over a prime coat.

MANUALS/WARRANTY – Manufacturer shall furnish operation manual; unit shall be guaranteed against defects in workmanship and materials for a period of one (1) year.

The Missouri Department of Transportation Commission reserves the right to waive technicalities and to reject any or all bids and no bid is final until formally accepted by the Commission.