

**SPECIFICATIONS FOR SIDE MOUNT, SELF-LEVELING 60" ROTARY MOWER  
MOUNTED ON TRACTOR**

**ACCEPTABLE TRACTOR BRANDS/MODELS: JOHN DEERE MODEL 5090E, NEW  
HOLLAND T6.145 w/ AUTO COMMAND TRANSMISSION, OR EQUIVALENT**

**ACCEPTABLE MOWER BRAND/MODEL: ALAMO BRAHMA ROTARY OR  
EQUIVALENT**

**MOWER PORTION MUST BE BID AS A SEPARATE INSTALLED UNIT AND A  
COMPLETE UNIT WITH TRACTOR AS LISTED**

**ALL SPECIFICATIONS ARE CONSIDERED MINIMUM UNLESS OTHERWISE NOTED.**

**GENERAL**

The unit bid must be a current production model that has been in production on the open market for a minimum of one (1) year.

**OPERATOR PROTECTION & SAFETY**

- The mower cutter head shall have a six-second emergency shutdown engaged by the operator from inside the tractor cab. The button shall be located within easy reach for complete power shutoff of motor circuit.
- The boom controls shall feature a master ON/OFF switch for complete power shutdown.
- An "Enable" function shall be incorporated into controls to prevent incidental boom movement.
- Polycarbonate (Lexan<sup>®</sup>) window protection shall be offered as standard on CAB tractors as well as on ROPS (Roll-Over Protection Structure) tractor variations.

**SAFETY AND TESTING**

Due to the severe mowing conditions, safety tests are a requirement for the operator's safety and highway traffic safety. All equipment must meet or exceed the requirements on attachment D.

## **HYDRAULIC SIDE MOUNTED ROTARY MOWER SPECIFICATIONS**

- Type: Hydraulic side mounted rotary mower
- Cutting Width: 60" minimum
- Rear Roller: Required
- Side Walls: 3/8" minimum
- Deck: 10 gauge, reinforced
- Deck Reinforcement: 1/2" steel plate deck reinforcement at gear box mounting area, approx. 169 sq. inches.
- Skid Shoes: Full length bolt on replacement
- Power: Hydraulic
- Blade Assembly: Heavy, dish pan type, with two (2) free swinging suction type blades. Hardened steel blade shoulder bolts, 1 1/8" threaded with wear surface at all points of contact. Secured with Loctite. NOTE: Stump jumper required.
- Output Shaft: 3 1/4"
- Spindle Bearings: Double tapered, roller, sealed
- Motor to Spindle Drive: Chain coupler or direct. NOTE: Dodge coupler is unacceptable.
- Curb Lift Above Grade: 30"
- Vertical Arc: 159 degree arc
- Safety Chains: Front & Rear sufficient to minimize debris from being thrown from mower. Safety chains to extend as close as possible to ground without interfering with blade. The chains shall be equipped with a method to form chain in a continuous curtain.
- Hydraulic Pump: Piston type pump, closed center hydraulic
- Hydraulic Motor: rated up to 80 HP
- Hydraulic System: Maximum 17 GPM
- Lift Cylinders: 3 1/2" bore & 1 1/2" rod
- Valves: Built-In relief or by-pass valve.
- Hoses for Mower Drive System: Mfg.'s standard
- Suction Line Hose: Mfg.'s standard
- Main Control Valve: Joystick controlled. To include all necessary valves, hoses, etc. needed for complete installation and operation.
- Starter Lock Out Safety Switch: Must prevent tractor from being started with cutter head valve engaged.
- Safety Shields: Front shield minimum single row 5/16" chain, 11 strands per foot with 3/4" spacing. Rear rubber/fabric material.

- Unit Must be Self-Leveling: Required
- Weight-Cutterhead Assembly: 1,050 lbs.
- Complete Mower Assembly Weight (less hydraulic oil): 2,162 lbs.
- Required Features and Accessories: All manufacturers' advertised standard features & required options noted. NOTE: Add 500 lb. counterweight to left rear wheel and methanol in left rear tire.
- Required Literature: Complete operating instructions, repair parts, maintenance & accessories. Manuals to include: Operator service & parts, operation & safety video required.

**Color:**

- Mfg.'s standard

**Operation and Maintenance:**

- Successful bidder shall be required to furnish a qualified individual(s) to provide operator preventative maintenance & safety orientation for approx. four (4) hours at each delivery location.

**Parts and Service:**

- Each bidder must be a manufacturer's franchised dealer that must have parts, sales & service, service trucks within 250 miles on the spreadsheet for regional address attachment

**Operation and Maintenance:**

- Successful bidder shall be required to furnish a qualified individual(s) to provide operator preventative maintenance & safety orientation for approx. four (4) hours at each delivery location.

**MANUFACTURER'S PRODUCT LIABILITY INSURANCE**

- Suppliers shall include a copy of mowing equipment manufacturer's **Certificate of Insurance for Product Liability of at least \$25,000,000 for the products** subject to its bid

## **SPECIFICATIONS FOR TRACTOR, 75 PTO HP, 4WD**

**ACCEPTABLE BRANDS/MODELS: JOHN DEERE 5090E, NEW HOLLAND T6.145 w/  
AUTO COMMAND TRANSMISSION OR EQUIVALENT**

**ALL SPECIFICATIONS ARE CONSIDERED MINIMUM UNLESS OTHERWISE NOTED.**

- Shipping Weight (S.A.E.): 8,150 lbs-10,560 lbs.
- Engine: Tier IVB, turbocharged air-to-air-aftercooled diesel w/cold starting aid. Must be B-20 compatible while maintaining full warranty.
- Fuel Moisture Separator: Required
- Cylinders: 4
- Displacement: Minimum 4.5L; 274 cubic inches
- Exhaust: Vertical w/bent 90-degree spout or rain cap
- PTO Horsepower: Minimum 75 hp
- Rated Engine Power (ISO): Minimum 90 hp
- Transmission: Minimum 12F – 12R, w/left hand power reverser.
- Clutch: Wet required
- Main Tractor Hydraulic System: Direct Gear Driven. (Note: Mower not to be plumbed to tractor hydraulics)
- Hydraulic Pump Rated Output Minimum, GPM: Main – 15.9; Steering – 6.6; Total 22.5
- Remotes Hydraulic Valves: One (1) set of dual remotes required. (Note: Mower must be operated through mower hydraulics.)
- Final Drive: Planetary
- Wheels: Eight position adjustable front & rear. Thread width to be delivered approximately 76” center to center.
- Differential Lock: Required
- Brakes: Wet disk required
- PTO w/Guard & Wet Clutch: 540/540E RPM, independent guard, electric hydraulic engagement. (NOTE: Two stage clutch is unacceptable) Digital PTO speed indicator.

- Adjustable Telescopic Sway Bars: Right & left side of the draft lift arms required, tube type with pins or screw type with pin are acceptable. (NOTE: Adjustable chains are not acceptable) Dealer installed acceptable.
- Hitch: Category 2, 3-point with telescopic link ends, top link & draft control
- Tires (Bias): Front – 12.4 x 24; Rear – 18.4 x 30
- Factory Cab Option: Factory installed w/heater & air conditioner & ROPS. Items advertised as standard, to include tinted safety glass. OSHA & ANSI approved.
- Seat: Suspension seat w/seat belt & arm rest.
- Digital Ground Speed Indicator, Dash Mounted: Required
- Manufacturer's Standard Gauges: 1) Lighted instrument panel; 2) Tachometer; 3) Electric Hour meter; 4) Fuel Gauge; 5) Temperature Gauge; 6) Warning Lights for Oil Pressure & Alternator; 7) PTO Warning Buzzer or Light.
- Throttle: Hand & foot
- Steering: Power w/tilt & telescopic column
- Electrical System: 12-volt, key start, minimum 120 AMP alternator , minimum 950 CCA
- Fuel Capacity: Minimum 30 gallons
- Def Tank- Minimum 2.5 gallons
- Lighting Package: Two (2) headlights, two (2) taillights
- Warning Flashers: Required
- Rear Fenders: Required
- SMV (Slow Moving Vehicle)Emblem: Required
- Color: Manufacturer's standard
- Unit to contain all equipment advertised as standard by manufacturer.
- Anti-Freeze Solution: Protected to -34 degrees F.
- Access to Parts Inventory: Successful bidder shall provide access to manufacturer's repair parts inventory through factory web access or DVD.
- Manuals: One (1) operator & one (1) service manual-paper, CD or internet access. One (1) operator safety CD required for safe operation training.
- Parts & Service Requirement: Each bidder must supply a manufacturer's franchised dealer list that must have parts, sales, & service, service trucks within 250 miles on the spreadsheet for regional address attachment.