

## **Kut-Kwick RoadMaster®**

RM80-88D  
RM80-187D



- Steep Slopes 0° to 31°
- High production mowing of roadways and parks
- Steering wheel steered for comfortable operation
- Special transport, travel at 24 mph
- Out-front rotary tractor with 88" cut for steep slopes
- Quick connect trailed two cutter mower for high production on slopes up to 20°



## **The ROADMASTER® – an industrial strength mowing tractor!**

The Kut Kwick RoadMaster® is specifically designed for high production, low maintenance mowing of roadsides, airports, parks, and other large areas. This front mowing tractor cuts a full 7 foot swath, and the optional hydraulically-powered towed cutter deck attachment increases the cut to a 15.5 foot path.

The RoadMaster®'s patented technology provides for commercial mowing in medium to rough mowing applications ... and on slopes of up to 31°, as well as flat areas. This unique tractor allows the operator to mow grass that is 8" to 2' high above the ground with a finished cut from 4" to 8", depending on the mower height adjustment.

For safe operation on slopes, the RoadMaster® has an extra wide wheel base, a low center of gravity, and tip-up protection. The RoadMaster® also features a special cockpit and tilting suspension seat with restraining arms and retractable seat belt. The engine is mounted in the center of the machine and is exposed to assure adequate cooling and ease of maintenance.

The optional rear towed cutter includes two additional cutter decks, each equipped with two 3/8" hardened alloy steel blades. The towed cutter attaches or detaches to the mower without tools in 1 1/2 minutes. Hydraulic controls in the cab allow the operator to raise, lower and engage the blades on each towed deck independently.

The special trailer-hitching mechanism has been designed to prevent "fishtailing" and "jack-knifing" when the trailer-towed mower combination is driven at higher speeds. The RoadMaster® is equipped with a special transport speed mode that allows it to travel at 24 mph for efficient relocation, eliminating the need for a trailer.

The RoadMaster® is designed with the cutter deck out front so that the operator can trim on either side while looking straight ahead. This design feature was incorporated into the machine to deal with the very dangerous operating procedure that cannot be avoided, when roadways are mowed with farm tractors pulling mower attachments. Farm tractor operators continuously look to the rear, causing numerous accidents from the inability to watch for obstacles coming up ahead.

All the controls on the RoadMaster® are ergonomically located for safety and convenience. The machine has a steering wheel type of steering mechanism for operator comfort in applications where extreme maneuverability is not required.

## ***Features of the RoadMaster®: Model No. RM 80-88D/RM 80-187D***

|                    |  |
|--------------------|--|
| Cut:               | <u>88" or 187" with towed cutter option</u>  |
| Cutter Assembly:   | <u>1/4" thick steel cutter deck</u>  |
| Cutting Height:    | <u>4" to 8" height adjustment</u>  |
| Blades:            | <u>Three (3) 3/8" hardened alloy steel blades</u>  |
| Engine:            | <u>80 HP Cummins, industrial, cast iron, overhead cam, water-cooled diesel engine</u>  |
| Speed:             | <u>0 to 11 mph (low/mowing range)</u><br><u>0 to 24 mph (high/transport range)</u>   |
| Slope:             | <u>0° to 31° slopes, designed with low center of gravity for safety on slopes</u><br><u>20° with optional Rear Towed Cutter attached</u> |
| Steering:          | <u>Steering wheel directs the two 6" x 16", 6 ply wheels mounted on the front of the cutter deck.</u>                                    |
| Tires:             | <u>38" x 18.00-20", 8 ply rated tires; tractor tread tires for best traction in rough or wet conditions</u>                              |
| Seating:           | <u>Tilting seat with restraining arms, to maintain level seating on slopes</u>   |
| ROPS:              | <u>Four point certified Roll Over Protection System (ROPS) and retractable seat belt</u>   |
| Cab:               | <u>Hard top canopy for sun protection</u>  |
| Oil Reservoir:     | <u>58 gallon hydraulic oil reservoir with oil/air separator, to prevent foaming, overheating and water intrusion from condensation.</u>  |
| Diesel Fuel Tanks: | <u>28 gallon; dual diesel fuel tanks on the front of the machine away from the operator designed to fuel the engine on slopes</u>        |

### **Options and Accessories:**

- Rear Towed Cutter – Cutting width: Rotary – 15' 7" (187").
- Hydraulic controls in the cab allow the operator to raise, lower and engage the blades on each (left & right) deck independently. Towed cutter attaches or detaches from tractor, without tools, in 1 1/2 minutes
- Enclosed Hard-Panel Cab – With air conditioner and/or heater

The RoadMaster® design is patented.

## Detailed Specifications of the RoadMaster®:

### STANDARD SPECIFICATIONS:

**Tractor:** Industrial mowing tractor, slope cutting to 31 degrees riding 88" cut, rear discharge, out-front rotary, self propelled by a closed loop hydrostatic drive system, powering 38 x 18.00-20 drive wheels, steering wheel with hydraulic assist. 80 HP diesel engine. Operator seated at the rear extremity of the machine for safety. ¼" plate steel mowing deck supports the chassis from the front while pivoting side to side to follow the contour of the ground. 4" through 8" cutter height adjustment. Standard with 4 point ROPS and retractable seat belt.

### OTHER STANDARD DESIGN FEATURES:

**Operator Safety Switch** -- Must be attached to the operator so that when pulled it functions as an emergency brake and safety shutdown. It cuts off and dynamically brakes the machine should the operator separate from the machine for any reason.

**Propulsion** -- Hand lever activated, closed loop hydraulic system including direct drive hydraulic pump with dual speed wheel motors coupled to planetary hubs, powering the forward and reverse rotation of the wheels. The system is supplied with hydraulic oil from a 58 gallon reservoir through a 10 micron filter system with a total system capacity of 62 gallons.

**Steering** -- A steering wheel directs the two 6.00-16, 6 ply wheels mounted on the front of the cutter deck.

Has hydraulic power assist. Additional steering assist brakes are actuated by foot pedals located right and left on the floor forward of the operator. The steering assist brakes may be individually activated to hold the machine on slopes for periods of short duration or for quick turns. For emergency braking, the pedals can be applied together.

**Operational Braking** -- When the propulsion lever is returned toward the neutral position, the machine is hydraulically braked. When in neutral, the machine's movement is braked whether or not the engine is running.

**Parking Brakes** -- The two steering assist pedals may be latched together then applied simultaneously by foot as a parking brake. The steering assist pedals actuate automotive disc type brakes that are located on the two drive wheel assemblies.

**Freewheeling Device** -- Disengages the planetary gearboxes by reversing the caps located on the outside face of each gearbox. When towing, use only a rigid towbar.

**Wheels** -- Drive: 38 x 18.00-20, 8 ply rating tractor tread for best traction in rough or wet conditions. Steering: 6.00-16, 6 ply rating.

**Cutting Deck Assembly** -- Extra heavy duty, ¼" thick plate steel, rear discharge type deck equipped with three, 3/8" x 4" x 31" hardened alloy steel blades. The blades are mounted on 1 3/8" diameter, steel mandrel shafts, each supported by two precision ball bearings enclosed in a heavy, machined housing.

**Tilting Seat** -- The patented tilting mechanism allows the operator to tilt up to 30 degrees on slopes. It is necessary for the operator to maintain his seating while traversing and turning on steep slopes. The arm rests not only rest the operator but restrain and hold the operator in the seat during steep slope operation. The arm rests are individually pressed down to tilt the seat.

**Engine** -- 80 HP Cummins industrial, cast iron, watercooled diesel engine.

**Air Filter** -- A special multi-stage engine air filter. Dust and dirt are removed centrifugally and deposited in a dust cup. A replaceable element removes finer particles. The filter reduces maintenance, assuring

longer engine life.

**Controls** -- For safety and convenience all the controls are ergonomically located. The steering wheel, propulsion lever, throttle, engine gauges and ignition switch are located on the dash panel immediately in front of the operator with the blade engagement controls on the right panel. The high/low drive speed control is located on the left panel, and parking/steering brake pedals on the floor of the cab.

### PERFORMANCE DATA AND CAPACITIES:

**Speed** -- 0 to 11 MPH (Low) / 0 to 24 MPH (High)

**Fuel System** -- Dual tanks, with 28 gallon total capacity.

**Oil System** -- The RM is designed to use the same type oil in both the engine and hydraulic systems. (Chevron Delo 400, 30 wt. or equivalent.)

**Cutting Height** -- Adjustable 4" through 8"

**Fuel Consumption** -- 3.25 gallons per hour.

**Ready to Operate** -- The mower has been operationally tested, is shipped fully assembled.

**Size and Weight** -- 6020 lbs., 93" W, 160" L.

### OPTIONS:

**Rear Towed Cutter** -- Cutting width: Rotary -- 15' 7" (187"). Hydraulic controls in the cab allow the operator to raise, lower and engage the blades on each (left & right) deck independently. Towed cutter attaches or detaches from tractor, without tools, in less than 5 min.

**Enclosed Cab** -- With air conditioner, heater and wind shield wiper.

**Snow Blower** -- Two stage, 88" hydraulically driven.

**Sweeper** -- 84" Hydraulically driven.

**Snow Plow** -- 102" Hydraulic lift and tilt.

**High Lift Blades** -- For best refined cut and end of season leaf mulching.

**Dual Tires** -- For increased traction and flotation in soft terrain.

**Turf Tires** -- To minimize turf disruption where reduced traction and slope-ability is acceptable.

### DESIGN CONSIDERATIONS-PATENTS:

The RM is specially designed for safety and performance in medium to rough mowing applications in flat areas as well as slopes not to exceed 31 degrees. Engineered features necessary for practical and safe operation on slopes include extra wide wheel base, a low center of gravity, tip-up protection, special cockpit and tilting suspension seat with restraining arms and retractable seat belt. The front cutting, rear discharge cutter assembly rigidly supports the chassis from the front while pivoting to the side to contour with the turf. The rear discharge cutter significantly reduces the hazard of thrown objects. The 58 gallon hydraulic reservoir is the central structural member of the machine, contributing to its low center of gravity, eliminates oil foaming and overheating. The engine is mounted in the center of the machine and is exposed to assure good cooling and ease of maintenance. The operator position is located at the rear extremity of the machine permitting the operator to continuously look forward in normal operation, and to assure his safety should he separate himself from the machine for any reason. Both the cutter assembly and the propulsion system are designed so that the engine can only be started when the cutters are disengaged and the propulsion system is in neutral. This machine is covered by one or more of the following patents or patents pending: (U.S.) 4, 453, 739; 4, 515, 337; 4, 515, 392; 4, 700, 536; 4, 878, 845; 4, 876, 846; 4, 926, 621; (Foreign) 0, 095, 301; 0, 262, 285; 1, 288, 955; 1, 316, 355; 89109075.5