# *Tough mowers... from rough cut to smooth finish.*

## The Super-SlopeMaster™

SSM 38-72D
DIESEL POWERED EXTRA HEAVY DUTY
COMMERCIAL HYDRAULIC ROTARY MOWER

**38 HP - Water Cooled Diesel,**
**Dual Wheeled, Skid Steered**

Exclusive patented design allows cutting on slopes up to 40 degrees while traversing and turning on the slope for efficiency and to prevent erosion. Dual drive wheels master the steep grades, cutting a 72" swath with rear discharge safety. Ease of operation and engineered safety permit new operators to develop proficiency with less than one hour of instruction.

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# The Super-SlopeMaster™
## SSM 38-72D

kut-kwick
SSM-0199

**STANDARD SPECIFICATIONS:**
**Mower:** Slope cutting to 40 degrees, riding 72" cut, rear discharge, outfront rotary. 38 HP water cooled diesel, speed to 8 mph, skid steered, dual wheeled with two 26" x 12" - 12" drive wheels on each side at the rear and 19" x 6" puncture proof casters on the front. Tilting seat located at the rear extremity of the machine. Cutter with 1½" to 6 ½" height adjustment, decked with ¼" steel; supports the chassis from the front while pivoting to the sides to cut the contour of the turf. Standard with roll bar and 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 switch. It cuts off and dynamically brakes the machine should the operator separate himself from the machine for any reason.

**Hydraulics** — Twin, closed loop hydraulic systems including hydraulic pumps and geared hydraulic wheel motors, powering the forward or reverse rotation of the wheels. The two systems are supplied with hydraulic oil from a 14 gallon reservoir through a 10 micron filter system with a total system capacity of 16 gallons.

**Steering** — Each hydraulic drive system is independently controlled through hand-activated directional control levers for direct drive wheel steering. The hand levers are individually advanced to rotate the wheels forward or are retarded from the neutral position to reverse the machine. One set of drive wheels can be rotated forward while the other set of drive wheels is reversed to turn the machine on slopes. The machine turns in less than its length. (A true "0" degree turning radius.)

**Operational Braking** — When the hand controls return 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, allowing only moderate creep on slopes. When released, the spring-loaded handles automatically return to the neutral position, braking the machine. The automatic return to neutral with automatic braking is a major safety feature.

**Parking Brake** — Automotive disc type parking brakes are located on the two drive wheel assemblies. They are actuated simultaneously through a hand lever.

**Freewheeling Device** — To release the hydraulic lock, the "relief valves" are unscrewed 4 turns allowing the machine to be moved up to 1½" mph for maintenance.

**Tilting Suspension Seat with Restraining Arms** — Tilting as much as 30 degrees as necessary for the operator to maintain his seating when traversing and turning on grades up to 40 degrees. Adjustable for operator weight, from 100-264 lbs.

**Wheels** — Special dual (2 sets) steel wheels with 26" x 12" - 12", 4-ply, tractor tread tires for best traction on slopes. A special heavy duty wheel and axle system accommodates the dual 12" tires. The deck is supported by two front mounted, caster type, 19" x 6" solid segment tires for reduced maintenance.

**Cutter Deck Drive** — The cutter deck drive is a specially designed and highly efficient hydraulic drive system with a pump driven directly by the engine which gives maximum efficiency of operation while minimizing maintenance requirements. The deck drive motor is a heavy duty unit which incorporates extra heavy bearings and housing. This drive system delivers maximum horsepower to the blades yet protects the components through the shock absorbing nature of a hydraulic pressure relieved/belt drive system.

**Cutter Assembly** — Unique Kut-Kwick ¼" thick "Clamshell", extra heavy duty, rear discharge type. Equipped with three ⅜" thick, 2½" wide, heat-treated alloy steel flat blades for best performance when rough cutting where power and speed are more important than appearance. The blades are mounted on 1" diameter, hardened and ground alloy steel shafts, each supported by two precision ball bearings enclosed in a heavy, machined housing. The deck sides are built with skids to cross curbs and obstacles. (Patented.)

**Engine** — 38 HP Industrial, cast iron, water-cooled diesel engine specially modified for steep slope mowing.

**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 particulate. The filter reduces maintenance, assuring longer engine life.

**Controls** — For safety and convenience all the controls are located immediately in front of the operator with a hand support bar in front of the controls. The throttle, engine warning lights, ignition switch and cutter engagement controls are located on the dash panel with the propulsion control levers on either side. The parking brake lever is low and to the left of the dash panel. It is repositioned from the vertical to the horizontal position to set the brakes "on."

**OPTIONS:**
**Canopy** — For operator comfort, attaches to roll bar. (Factory or field installation.)

**Light Kit** — Attaches to roll bar. (Factory or field installation.) Rotary beacon available in lieu of flashing lights.

**Hour Meter** — For improved maintenance control. (Factory or field installation.)

**Turf Tires** — To minimize turf disruption where reduced traction and slope-ability is acceptable. (No-charge option, slope operation is reduced to 30° max.)

**Deluxe Engine Gauge Package** — Includes oil pressure, volt meter, water temperature, and matching hour meter. (Factory installed only.)

**Medium Lift Blades** — For general purpose mowing. (No-charge option.)

**High Lift Blades** — For best refined cut and end of season leaf mulching (No-charge option.)

**PERFORMANCE DATA AND CAPACITIES:**
**Fuel System** — 17 gallon capacity.

**Oil System** — The SSM is designed to use one oil in the engine and hydraulic systems. (Chevron Delo 400, 30 wt. or equivalent.)

**Cutting Height** — Adjustable 1½" through 6½".

**Fuel Consumption** — 1.017 gallons per hour normal usage; 1.696 gallons per hour in full cut continuous usage.

**Operates on Slopes** — To 40 degrees at speeds variable to 8 mph. Traverses and turns on slopes for efficiency and to prevent erosion.

**Curbing** — Backs over curbs with ease.

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

**Size and Weight** — 92" overall width. Standard machine 3100 lbs.

**DESIGN CONSIDERATIONS, PATENTED:**
A slope mowing machine designed to perform in rough and semi-refined conditions. Engineered features necessary for practical and safe operation on steep slopes includes an extra-wide wheel base with dual wheels for stability and extra traction where sandy and low traction surfaces are a problem, extremely low center of gravity, tip-up protection, a special cockpit, and tilting seat with restraining arms. 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 14 gallon hydraulic reservoir is the central structural member of the machine, contributing to its low center of gravity, eliminating oil foaming and overheating. The engine is mounted in the center of the machine and exposed to assure good cooling and ease of maintenance. The operator is seated low to the ground at the rear extremity of the machine to assure his safety should he separate himself from the machine for any reason. The rear seat position permits the operator to continuously look forward in normal operation. Both the cutter assembly and the propulsion system are designed so that the engine can only be started when the cutters are disengaged and when the propulsion system is in neutral. The machine is covered by one or more of the following patents and patents pending: 4,453,739; 4,515,337; 4,515,392; 4,700,536; 4,876,845; 4,876,846; 4,926,621. Specifications subject to change without prior notice.