

CM-50 Automatic Truck Mulcher General Specifications



APPLICATION: HIGHLY EFFICIENT RECLAMATION OF TRUCK TIRES INTO MULCH AND/OR OTHER GRADES OF PARTICULATES USING LATEST TECHNOLOGY.

UTILITY SERVICE REQUIRED:

ELECTRICAL:

200-208V/3/50/60 HZ
230V/3/50/60 HZ
380V/3/50 HZ
415/3/50 HZ
460/3/50/60 HZ

SUGGESTED BRANCH

| CIRCUIT RATING | MACH. RATING |
|----------------|----------------|
| 200 AMP | 150 AMP/37.3KW |
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| 100 AMP | 75 AMP/18.7Kw |
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EXPANDABLE RIMS AVAILABLE:

THE FOLLOWING EXPANDABLE RIMS ARE USED ON STANDARD 12 SEGMENT EXPANDABLE HUB

| BEAD DIA. | BEAD WIDTH | PART NUMBER |
|-----------|------------|-------------|
| 12-14" | 5" | 309020 |
| 12-14" | 8" | 309572 |
| 13-16" | 5" | 309080 |
| 13-16" | 6 3/8" | 309030 |
| 13-16" | 7 1/2" | 309962 |
| 13-16" | 11 3/8" | 309963 |
| 14-17" | 6" | 309942 |
| 14-17" | 7 1/2" | 309153 |
| 14-17" | 7 1/8" | 309140 |
| 14-17" | 9 1/4" | 309150 |
| 17-20" | 6 1/2" | 309040 |
| 17-20" | 8 1/4" | 309202 |
| 17-20" | 9 3/4" | 309172 |
| 18-20" | 7 5/8" | 309221 |
| 20-22.5" | 9" | 309050 |
| 22-24.5" | 9" | 309060 |
| 22-24.5" | 13 3/8" | 309070 |

PLEASE CONSULT FACTORY SALES FOR SMALLER BEAD DIAMETER APPLICATIONS.

PNEUMATIC:

120 PSI INLET/8.0 BAR

WATER:

5 PSI NOMINAL USAGE/8 BAR

TIRE SIZE CAPABILITY:

| | |
|---|--------------|
| MAXIMUM DIAMETER: | 32"/81CM |
| MAXIMUM CROSS SECTION: | 12"/30CM |
| BEAD DIAMETER RANGE: | 24.5"/62CM |
| MAXIMUM WEIGHT: | 200LBS./91KG |
| PLEASE CONSULT FACTORY SALES FOR LESSER H.P. MODELS AND ELECTRICS NOT LISTED ABOVE AND SIZES EXCEEDING ABOVE TABLE. | |

* FOR EXPORT CHECK LOCAL REGULATIONS



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Productivity/Operator Interaction

Untended operation (fully automatic) requires only operator to load and unload.
Consistency in mulch produced is assured as the ATM eliminates operator-induced variability.
Fast removal of mulchings.
High acceptable percentage of mulch size and superior shape.
Labor content at up to 80% reduction presenting lowest labor costs over manual operation.
One operator can effectively manage several machines.
Stand-alone operator console has lighted display controls, amp meter, and conveniently placed controls all of which are 24 volt for safety. Simplified console.
A manual override assures continuity of service and enhanced capabilities.
Cutter drive motor and tire drive are electronically linked for synchronized speeds regardless of applied torque.
Optimization of speeds and feeds assure high consistency in premium chip size.
Increased percentage of larger chips creates additional total sales value.
A stack light gives visual indications of machine status at all times for the operator and management.
Adjustable controls and drives are fully enclosed denying access to only qualified (non-operational) personnel. Improves safety and keeps unauthorized personnel from ready access.
Latest technology touch screen controls available.

Reliability/Durability/Maintainability

Only proven class components of high quality technology are incorporated in the machine.
Computerized repeatability of performance from tire to tire is achieved.
Up time is vastly improved.
Cutter life is enhanced with optimized cutter feeds and speeds reducing cutter friction.
Electric control panel has generous exterior airflow allowing for cooler operation during continuous operation.
Control panel is vibration isolated for extended component life.
Cabinet cooler is incorporated to extend useful life and reliability of electrical controls. A steady 95° F is automatically controlled. Internal heat generated is exhausted. Virtually maintenance free operation. Cooler does not run if temperature is under 95° F in the cabinet.
Oversized tire drive has 400% more offset load and 30% more torque.
Machine base has been substantially reinforced and is stiffer over standard machine, making it more vibration resistant from the foundation up.
40 h.p. or 50 h.p. cutter drive motor runs quiet and cooler. Rated for continuous operation.
Motor cabinet has force-filtered airflow for extra cooling efficiency.
Additional heat ventilation ports are provided.
Heavy-duty machine tool style bearings and support rails reduce vibration and accepts shock loads in all directions.
Support rails are supported along full length in place of only both ends. Reduction in vibration and extension of useful life are accomplished.
Slide bearings have dual lubricators and wipers.
Grease fittings are provided with long interval service of up to one year.
Larger traverse arm vertical support. Heavier gauge upright continues design rigidity.
Larger traverse bearing for lifetime usage.
All other bearings are oversized for extended useful life under the most rigorous of conditions.
Heavier base slide support plates add to strength and vibration resistance and are surface ground for precision.
Computer advises in English if there is a default by specific event.
Pneumatic air controls are fully enclosed in the motor cabinet and are filtered air-cooled.
Actuator drives on traverse and depth of cut have accordion way covers for dust and dirt protection.
Metal shields provide additional protection of essential components.

Overall Quality Fit/Finish Appearance

Attention to detail is given as to fit and finish of components.
Collection hood and cabinet area has been redesigned for enhanced appearance and chip removal efficiency.
Moving parts are fully covered for safety in use.
Extremely quiet operation.
All utility lines are enclosed within the traverse arm. Entrance and exit of lines are also enclosed in articulated wire ways. Adds not only to professional appearance but also to useful life through reduction in maintenance time.
Operator safety features include sensing of template in place, lock bar removed after cutter change, and cutter door locked in position.

Operating Costs

Short cycle time increases output.
Fully automatic cycle permits lowest labor cost.
Reduction of operator input results in improved staff acceptance and higher productivity with less fatigue.
Simplicity of operation assures continuation of work in event of staff turnover.
Low amount of time required for operator training.
Greatly extended maintenance life lowers not only maintenance cost but assures higher operational time.
Advanced technology assures users of state of the art continued high performance for years to come.
Design considerations add substantially to lower cutter costs, longer interval between change over times, and higher running time.
And more.

All above when operated in accordance with CRS training and instructions.