



# SWINGMASTER

**180-13**

**SINGLE OPERATOR  
STATION**

**SWINGLOADER**



# SPECIFICATIONS

## Dimensions

<i>Gross Vehicle Weight</i>	40,000 lbs. with Hi-Rail Gear
<i>Length</i>	220"
<i>Width</i>	102"
<i>Height</i>	136"

## Engine

<i>Engine Make</i>	Cummins
<i>Max. Horsepower</i>	194 @ 2000 rpm
<i>Peak Torque (Foot-Pounds)</i>	650 @ 1300 rpm
<i>Governed RPM</i>	2200 rpm

## Transmission

<i>Type</i>	"Six Speed" Power Shift
<i>Number of Drive Gear Ratios</i>	3
<i>Number of Gear Ranges</i>	2
<i>Axle Disconnect</i>	Rear Axle
<i>Clutch Cutout</i>	Standard

## Steering System

<i>Type</i>	Rigid Frame with Steerable Axles
<i>Control</i>	Full Power Hydraulic
<i>Selectable Modes</i>	4 Wheels, Crab, Front Only and Rear Only
<i>Turning Radius (Curb Clearance)</i>	20 feet 4 Inches Double Acting, 3" Bore, 8.9" Stroke, Chrome Plated Piston Rods.

## Electrical System

<i>Voltage</i>	12 V
<i>Alternator Output</i>	200 A
<i>Standard Gauges</i>	Air Pressure Engine Oil Pressure Engine Tachometer Engine Water Temperature Fuel Tank Level Hourmeter Torque Converter Oil Temperature Torque Converter Pressure Voltmeter
<i>Battery</i>	1900 Cold Cranking Amps with Disconnect Switch

## Capacity

	13,000 Pound Lift and Carry Capacity
	180° Swing (90° Each Side of Center)

## Torque Converter

<i>Stall Multiplication Ratio</i>	1.82:1.00
<i>Drive</i>	Offset
<i>Drive Ratio</i>	0.965:1.00
<i>Pump Drive Ratio</i>	0.951:1.00
<i>Oil Filler</i>	Remote Mounted

## Wheels and Tires

<i>Tires</i>	16 x 25
<i>Standard Wheels</i>	Single Dish 11.25-2 Rim 65.50 Inches Inside to Inside of Tires (Loaded Section)

## Service Brake System

<i>Type</i>	Outboard Style Dual Caliper Disc Brakes
<i>Disc Diameter</i>	19 in
<i>Location</i>	Axle Wheel Ends
<i>Actuation</i>	Dual Circuit System Air over Hydraulic
<i>Control</i>	Foot Control in Cab

## Parking Brake System

<i>Type</i>	Mechanical Disc
<i>Disc Diameter</i>	13 in
<i>Location</i>	Front Axle Input Yoke
<i>Actuation</i>	Spring Applied, Air Released
<i>Cylinders</i>	Electrical Switch in Cab

## Engine Air Intake System

<i>Type</i>	Dry, Two Stage (Centrifugal Precleaner, Paper Main Element) with Safety Element
<i>Restriction Indicator</i>	Standard, Mounted Alongside Air Cleaner



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## Fuel System

<i>Tank Capacity</i>	60 gal
<i>Filters</i>	Spin on Primary Strainer and Spin on Secondary Filter

## Hydraulic System

<i>Reservoir</i>	85 Gallon with Removable Cleanout Cover and Padlockable Filler Capacity
<i>Suction Strainers</i>	100 Mesh Strainers Mounted in the Hydraulic Tank on Each Pump Suction Line
<i>Primary Pump</i>	Double Section Gear Type, Direct Driven from Accessory Drive on Torque Converter. Supplies Oil Flow for Boom, Attachment, and Hi-Rail Functions.
<i>Secondary Pump</i>	Double Section Vane Type, Direct Driven from Accessory Drive on Torque Converter. Supplies Oil Flow for Steering and Remote controls

## Control Valves

<i>Primary</i>	Two Spool, Hydraulic Pilot Operated with Built In Relief Valve
<i>Secondary</i>	Five Spool, Hydraulic Pilot with Built In Relief Valve
<i>Controls</i>	Low Effort Hydraulic Remote Controls for Boom Lift, Boom Swing, and Tote Hook with Manual Override on Control Valves.

## Cylinders

<i>Boom Lift</i>	2 Double Acting 6" Bore x 23.25" stroke with Hydraulic Holding Valves
<i>Attachment Tilt</i>	1 Double Acting 6" Bore x 25.56" stroke with Hydraulic Holding Valves
<i>Filters</i>	In Tank Mounted, Return Line Cartridge Type, 10 Micron Nominally Rated Element
<i>Swivel</i>	9 Port Hydraulic

## Swing Drive Systems

<i>Type Drive</i>	Cylinder, Chain and Sprocket
<i>Rotation</i>	180 Degrees (90 Degrees Each Side of Center)
<i>Speed</i>	Equivalent to 3.0 rpm

## \*CUSTOM OPTIONS

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| <ul style="list-style-type: none"> <li>✓ Hi-Rail (Insulated or Non)</li> <li>✓ Rail Sanders</li> <li>✓ Warning Brakes</li> <li>✓ Speedometer</li> <li>✓ Passenger Seat</li> <li>✓ Tow Bar</li> <li>✓ Machine Fluid Heaters</li> <li>✓ Backup Camera</li> <li>✓ Spare Tire Carrier</li> <li>✓ Emergency Power Unit</li> <li>✓ Steering Pin Type Locks</li> <li>✓ Windshield Wipers (Front/Rear)</li> <li>✓ Auto Lube (Boom/Turntable)</li> <li>✓ Buggy/Rail Cart Brakes</li> <li>✓ 6" Removeable Vise</li> <li>✓ Hi-Rail Interlock</li> <li>✓ Air Conditioning</li> </ul> | <ul style="list-style-type: none"> <li>✓ Auxiliary Hydraulic Cooler</li> <li>✓ Derail Guards</li> <li>✓ Warning Beacon</li> <li>✓ Tachometer</li> <li>✓ Light Package</li> <li>✓ Turn Signals/Hazard Lights</li> <li>✓ Front and Rear Fenders</li> <li>✓ Heavy-Duty Rear Bumper</li> <li>✓ Tow Hitch (Front/Rear)</li> <li>✓ Rear Window Defroster Fans</li> <li>✓ Train Brakes</li> <li>✓ Hydraulic Top-Off System</li> <li>✓ Turntable and Boom Pin Type Lock</li> <li>✓ Live Track Door Belt</li> <li>✓ Hydraulic Tool Circuit Hose Reel</li> <li>✓ Pintle Hitch (Front/Rear)</li> <li>✓ AAR Coupler</li> </ul> |
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## \*CUSTOM ATTACHMENTS

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| <ul style="list-style-type: none"> <li>✓ Backhoe</li> <li>✓ Brush Cutter</li> <li>✓ Bucket</li> <li>✓ Rail Threader</li> <li>✓ Forks</li> <li>✓ Magnet</li> <li>✓ Male Master Coupler</li> <li>✓ Sweeper</li> <li>✓ Snow Bucket</li> <li>✓ V-Type Snow Plow</li> <li>✓ Back Filler Blade</li> <li>✓ Track Cleaning Bucket</li> </ul> | <ul style="list-style-type: none"> <li>✓ Cribbing Bucket</li> <li>✓ Grapple</li> <li>✓ Clamshell</li> <li>✓ Switch Broom</li> <li>✓ Extendable Boom</li> <li>✓ Lattice Boom</li> <li>✓ Tote Hooks</li> <li>✓ Tie Exchanger</li> <li>✓ Tracking Cleaning Bucket</li> <li>✓ Auger</li> <li>✓ Loader Bucket</li> <li>✓ Snow Blower</li> </ul> |
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\*The Custom Options & Attachments listed above may be available for Swingmaster machines, contact Swingmaster Sales Department for feasibility & compatibility.



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