

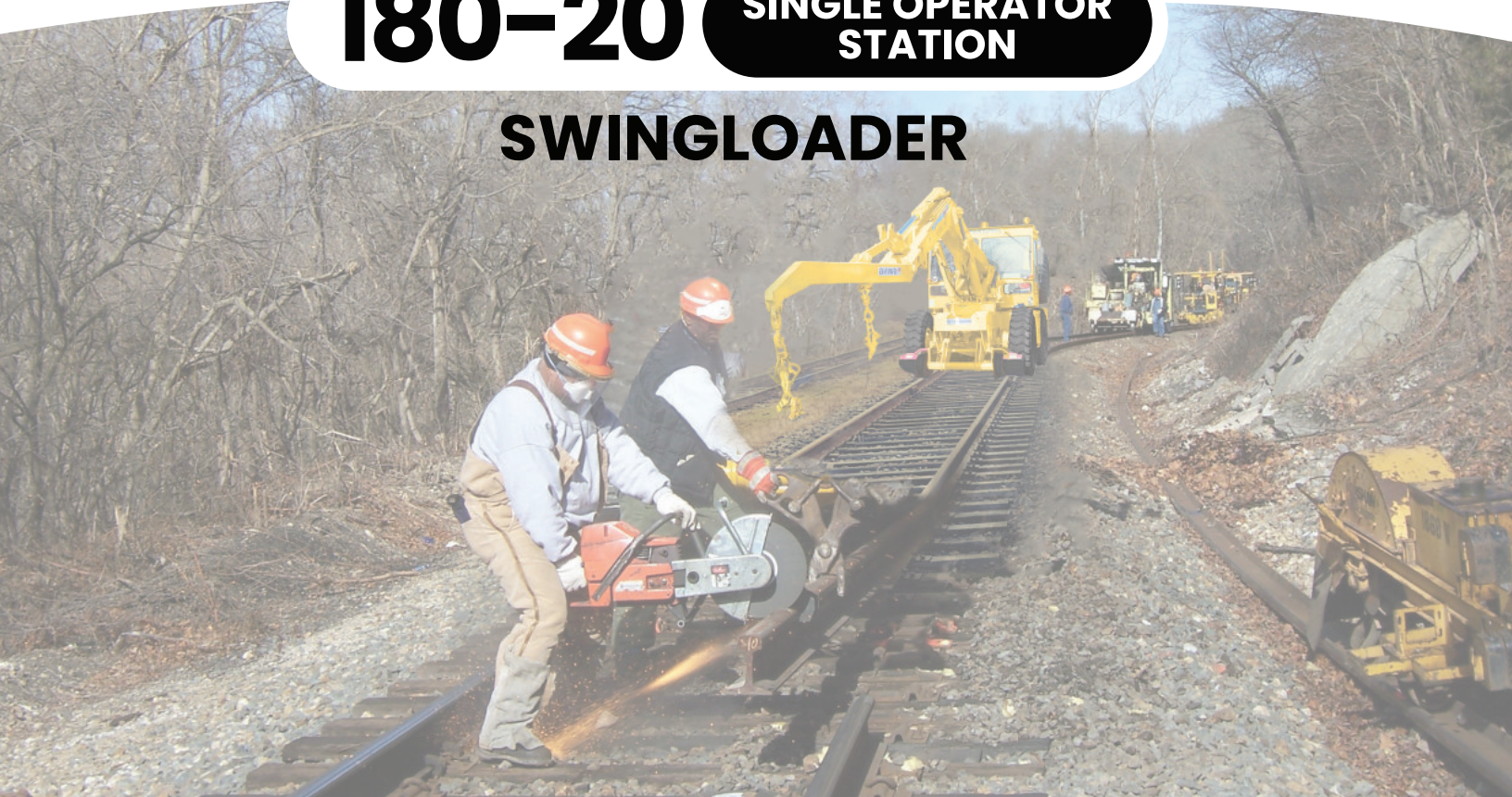


SWINGMASTER

180-20

**SINGLE OPERATOR
STATION**

SWINGLOADER



SPECIFICATIONS

Dimensions

<i>Gross Vehicle Weight</i>	54,000 lbs. with Hi-Rail Gear
<i>Length</i>	243"
<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

	20,000 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>	Air Control Button 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>	Three Spool, Hydraulic Pilot Operated with Built In Relief Valves
<i>Controls</i>	Low Effort Hydraulic Remote Controls for Boom Lift, Boom Swing, Tote Hook, Tilt with Manual, and Override on Control Valves.

Cylinders

<i>Boom Lift</i>	2 Double Acting 5.5" Bore x 42" Stroke with Hydraulic Holding Valves
<i>Attachment Tilt</i>	1 Double Acting 7" Bore x 35" 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

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

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



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