



ST31

Compact Track Loader

Efficient Excellence

The ST31 matches the compact size of a medium frame with lift capacity of larger loaders. The vertical lift arm, 125 inch lift height and 74hp regeneration free engine, make the ST31 an accomplished material handler, perfect for use in a wide range of applications, from moving palletized material around a construction site to truck loading. The wide, double-steel reinforced tracks provide stability and reduced total cost of ownership.

Highlights

- Controls for Every Operator
- Maintenance and Filter Free After-treatment
- Expansive Maintenance Access

Technical Data

Hydraulic

Flow rate	20.1 gal/mi
Flow rate max.	10.0 gal/mi
Auxiliary relief pressure	3,494.5 psi

Mechanical - Output Details

Ground Pressure (standard track)	5.8 psi
Break Out Force Bucket	5,300.1 lbf
Break Out Force Lift Arm	5,000.0 lbf
Tractive Effort max. at 100% effective force	9,873.6 lbf
Bucket Roll Back	1.6 s
Bucket Roll Out	2.1 s
Lift Arm Raise	3.7 s
Lift arm lower	2.5 s
Travel speed stage 1	6.5 m/H
Travel speed stage 2	9.6 m/H

Mechanical Details

Overall Length without bucket	106.6 "
Overall Length with Bucket	136.6 "
Overall width without bucket	67.1 "
Overall Width (Large Track)	70.3 "
Overall height to top of ROPS	83.0 "
Bucket Hinge Pin Height	125.5 "
Bucket roll back at ground	30.0 °

Bucket roll back at maximum height	30.0 °
Angle of departure	30.0 °
Bucket dump height at maximum height	97.2 "
Bucket dump angle at maximum height	42.0 °
Operating weight	8,095.4 lb
Track width	12.8 "
Track width (optional)	15.7 "
Ground clearance	9.1 "
Length of Track on Ground	57.2 "
Dump reach at maximum height	39.2 "

Engine

Cooling	Water-cooling
Cylinder	4.0
Cylinder capacity	151.5 Inch ³
Operating power	73.8 hp
Operating Engine speed	2,750.0 1/min
Manufacturer	Kohler

Operating Fluids

Fuel Tank capacity	32.8 gal US
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Chassis

Tip Load	6,199.4 lb
Rated Operating Capacity at 50% Tip Load	3,099.7 lb
Rated Operating Capacity at 35% Tip Load	2,169.4 lb

Dimensions

A1	Overall length with bucket	136.1 in
B1	Overall length without bucket	106.6 in
D1	Overall height	83 in
F1	Hinge pin height	126 in
G1	Dump height max.	97.2 in
H1	Dump angle	42 °
I1	Bucket rollback at max. stroke height	30 in
J1	Dump reach	39.2 in
L1	Ground clearance	9.1 in
M1	Angle of departure	30.7 °