



Volvo Construction Equipment

click here service manual:
<https://goo.gl/yfo79B>

C-SERIES COMPACT TRACK LOADERS

Volvo Compact Track Loaders ROC: 680-1 452kg



A passion for performance

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

Helping you to do more.

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs.

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



You learn a lot in 180 years.

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side.

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.



Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



Volvo Financial Services

Your work space.

Enter the safety and comfort of the Volvo cab. Work with ideally placed controls and quiet operation. Experience plenty of personal space and make the long days more productive. It all adds up to more with Volvo.

Comfort cab

The new skid steer loader cab is spacious and safe. It meets the ROPS/FOPS safety standards and offers operators 27% more space over previous models. Increased comfort means extended operator productivity.

Ample storage

Storage space is conveniently located under the left hand armrest. This easily accessible area gives the operator a secure place to store personal items such as keys. There is also a 12V power outlet here.



Interior noise

All models – both canopy and enclosed cab – are designed to limit noise in and around the operator environment. Less noise reduces operator fatigue and creates a more comfortable working environment.

Instrument consoles

Two consoles, positioned in the upper front cab corners, provide easy to read gauges. Simply presented instruments, situated for operator comfort, ensure easy viewing.



Cab access

Large side door allows operators to safely enter and exit the machine without climbing over an attachment. This minimizes the risk of slipping and the need to turn to sit down. Operators access the cab via a non-slip step. In a raised loader arm service position operators do not need to walk under the loader arm to engage the support strut.



Loader design



The unique single loader arm design delivers the loading performance and durability of a traditional machine but with the advantages of side entry and a single tower for improved visibility and safety.

Performance by design.

Every Volvo is designed to help you do more. Volvo tracked skid steer loaders help you reach a higher level of performance. With a unique, single loader arm design and dependability built in, we're ready for all your jobs.

Weight distribution

Weight is evenly distributed across the machine providing stability when handling both heavy and light loads. The offset cab and engine compartment counterbalance the unique single loader arm ensuring ultimate stability and balance from side to side.



Vertical lift

Excellent vertical lift that is perfect for truck loading and material handling applications due to the increase in height and reach. Also delivers greater lift capacity for efficiency in repeated load and carry operations.

Greater fuel capacity

Best-in-class fuel tank capacity means longer operating shifts and more productivity. Spend less downtime refueling.

Access more uptime.

Access greater uptime with user-friendly serviceability. Perform routine daily checks or access major components - it's all within easy access. This means you spend less time maintaining your machine and more time earning money.

O-ring face seals

Hydraulic connections use o-ring face seal (ORFS) fittings to eliminate hydraulic leaks. ORFS connectors reduce downtime and service costs by providing a 100% leak free joint.



Loader pivot pins

Our loader arm pivot pins are larger and therefore stronger than those used by competitors. They effectively distribute the load over the single arm design for longevity and durability.



Cab tilt

The entire cab can easily be tilted forward by one person with the removal of two bolts from the inside. Gas struts lock into place for simple, safe and quick access to key internal components.



Service access

Easy service access due to single loader arm, forward-tilting cab and large rear and top door. The skid steer loaders have 24% better SAE serviceability than competitor machines. Simple access to service and maintenance items helps provide a longer operating life.



Visibility

The single tower loader arm – with no horizontal cross member on the vertical lift model – provides superior visibility. The machine has a large top window and narrow ROPS cab pillars. The unique features help the operator maneuver the machine in tight areas to maximize productivity.

Safety is always on track.

Excellent all-around visibility allows you to work safely, quickly and more efficiently. That means peace of mind for you and those working around you. Safely see it all and do it all in your Volvo.

Cab door

The side door is the entire length of the cab. An unobstructed view provides improved visibility without the challenges found in other side mesh cages used in competitor machines. The door opens wide to 75 degrees ensuring easy entry and exit.



Loader arm service position

The side entry and exit cab makes engaging the loader arm support a one man operation. The operator can safely exit the machine to the side and walk round the rear without passing under the loader arm.



Safety first

The large front window provides an emergency exit 2.5 times bigger than the rear emergency exit in traditional front entry machines. ROPS/FOPS and easy machine exit gives operators peace of mind in the unlikely event of machine roll-over or falling objects.

See it Do more.

Vertical lift

Ideal lift, height and reach for truck loading and material handling applications.



Loader design

Single loader arm design for performance, durability, improved visibility and enhanced side-entry cab access.



Customer support

Volvo will support your skid steer loader with all the parts and service assistance you need.

Attachments

The versatility and power to use a wide range of attachments in a multitude of applications.





Cab

Designed for space, safety and comfort with ROPS/FOPS and large emergency exit.

Versatility

Increased flexibility to handle more jobs with just one machine.



Cab access

Safer side entry access eliminates the need to climb over a muddy and slippery bucket or attachment.



Visibility

Single tower loader arm and large top window for all-around, class-leading visibility.

No DPF

Tier 4 final - Stage IIIB compliance without the need of a DPF.



Service access

Simple, safe access to all service and maintenance areas with a forward-tilting cab and a large rear compartment door.

Productive track system

Increased stability on steep grades and rough terrains, maximum power from the driveline to the ground providing higher traction, lower ground pressure.

Versatile connections.

Unleash your machine's true potential with our extensive range of attachments. Our attachments work hard for you increasing your productivity and profitability across segments including building, agriculture and landscaping, demolition and road construction.

A sample of some of the attachments offered Auger

Powerful, smooth and easy for fast, effective ground hole drilling. Accepts multiple auger bits for application versatility. Hydraulically powered. Protected couplings for dependability, long life and lower costs.



Pallet forks

For pallet and material handling. Heavy-duty design provides fork strength to handle all the loads. Maximum open space between frame structure. Ideal visibility for fast, safe material handling.



Dozer blade

Heavy-duty, dozer blade effectively pushes and removes material. Replaceable wear parts prolong life. Optimum pushing power for fast work in heavy conditions. Year-round versatility, for use in snow and loose dirt.



Trencher

Ideal for utility trenching and pipe laying. High torque hydraulic motor. Heavy-duty design for dependability and long life. Provides maximum digging power for faster work. Greater versatility for increased profit opportunity.

Preparators and rakes

A wide range of rakes and preparator are available to suit multiple applications. Ideal for site cleanup, rock removal and soil preparation. It will follow the ground contour, tilling and fluffing soil as it grooms.



Landscape bucket

Provide versatility and material retention. Long bucket floor length for excellent material retention. Optimal view of the cutting edge for fast, precision grading. Durable, long lasting performance even in tough conditions.



Grapples

The easy way to handle bulky or loose material of varying sizes. High-capacity handling with outstanding material retention. Provides excellent ground visibility for safe handling. Strength and durability for long life.



6 in 1 bucket

Provides versatile material handling to dig, load, dump, push, grapple and level. Adds machine flexibility for a wide range of applications. Provides good visibility to the attachment edge.

Built to run. Supported for life.

Volvo will support your skid steer loader with all the parts and service assistance you need. We have a strong team of local dealers on hand to assist you to make sure your machines perform at their best and have a long operating life. Volvo won't let you down.

Dealer support network

Whatever you do, wherever you go, your Volvo Construction Equipment dealer is there with you – around the globe. A comprehensive range of dependable Volvo equipment. Trusted industry experience. Reliable parts and service support. Your local Volvo dealer is in the right place to find the right solution.

State-of-the-art machines require state-of-the-art support and your Volvo dealer can provide a catalogue of services designed to get the most out of your machine, helping you maximise uptime, productivity and resale

value. Your local Volvo dealer can provide a number of sophisticated support offers, including:

Service plans ranging from routine wear inspections, through to comprehensive maintenance and repair agreements.

Analysis and diagnostics to help you understand how your machine is running, highlight potential maintenance issues and identify where performance can be improved.



Service and support

Your dealer is ready to help increase your uptime by attending to your service needs and offering expert support. With trusted industry experience and solutions for all your jobs, Volvo offers first class support.



Taking care of your needs

Rely on your local Volvo dealer for all the support services you need. They've got the tools to help you achieve more and increase profits.

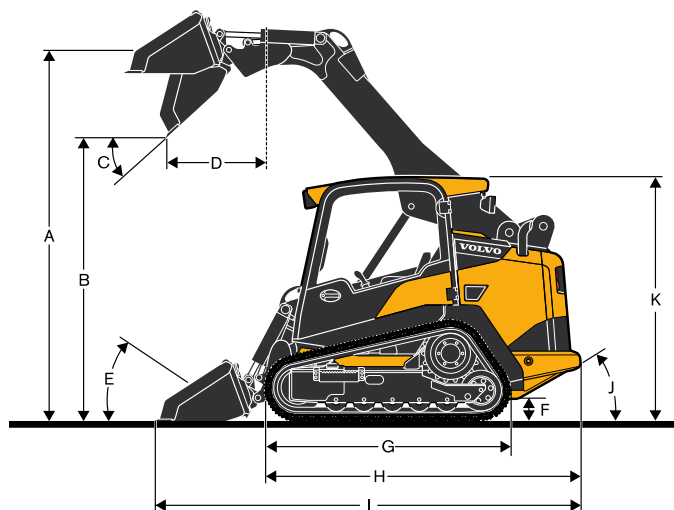
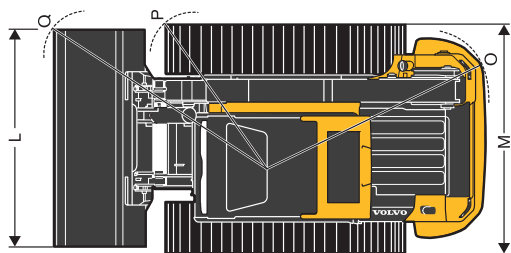
Volvo C series compact track loaders



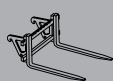
	Units	MCT85C
Engine		
Model		KDI 2054 TCR
Cylinders		4
Fuel type		Diesel
Displacement	cm ³	2 481
Aspiration		Turbo
Cooling system		Water
Horsepower		
SAE gross power	kW	46
SAE net power	kW	45.1
@ engine speed	@ rpm	2 600
Max. gross torque	Nm	300
@ engine speed	@ rpm	1 500
Max. no load speed	rpm	2 750
Electrical system		
Battery	V - Ah	12 - 109
Alternator	Ah	100
Starter	kW	2
Drivetrain		
Tracks	mm	320
Ground pressure with standard tracks	kPa	42.6
Hydraulics system-loader		
Std hydraulic pump output flow	lpm	70
High flow pump output @ rated rpm	lpm	100
@ engine speed	@ rpm	2 600
System pressure	bar	230
Service capacities		
Cooling system	l	10
Engine crankcase with filter, change	l	9.75
Fuel tank	l	92.0
Hydraulic system - total capacity	l	43.5
Hydraulic reservoir capacity	l	26
Performance		
Lift arm path		Vertical
Rated operating capacity at 35%*	kg	862
Rated operating capacity at 50%	kg	1 231
Tipping capacity (SAE)	kg	2 462
Operating weight (SAE)	kg	3 790
Breakout force, lift	kg	1 570
Breakout force, curl	kg	2 140
Maximum travel speed		
Single speed	km/h	10
Two speed	km/h	9 / 12.6
Cycle time		
Raise (lifting)	seconds	5.1
Lower (power down)	seconds	3.5
Curl	seconds	1.4
Dump	seconds	1.8

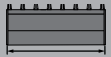


*Operating capacity for compact track loaders is according to SAE J818

in detail.



	Units	MCT85C	
A	Height to hinge pin	mm	3 020
B	Dump height	mm	2 290
C	Dump angle	°	42
D	Dump reach	mm	850
E	Roll back angle	°	30
F	Ground clearance	mm	230
G	Trackbase	mm	1 780
H	Overall length (L/bucket)	mm	2 780
I	Overall length (W/bucket)	mm	3 530
J	Angle of departure	°	27
K	Overall height	mm	2 000
L	Bucket width	mm	1 829
M	Over tracks width (L/bucket)*	mm	1 680
O	Turning radius rear	mm	1 650
P	Turning radius front L/bucket	mm	1 140
Q	Turning radius front W/bucket	mm	2 090

Pallet forks		Overall height	Overall width	Overall length	Adjustable tine spacing		Pallet fork rating	Overall weight
		mm	mm	mm	mm	mm	kg	kg
MCT85C	PF-42	984	1 194	1 313	229	1 143	2 722	206
	PF-48	984	1 194	1 466	229	1 143	2 722	218

Data according to bucket type	Bucket					
		Width mm	Length mm	Height mm		
MCT85C	General Purpose Bucket	1 676	800	521	200	0.39
	General Purpose Bucket	1 829	800	521	215	0.43
	Landscape Bucket	1 676	953	521	217	0.49
	Landscape Bucket	1 829	953	521	232	0.54
	Multi Purpose Bucket	1 676	953	701	259	0.45
	Multi Purpose Bucket	1 829	953	701	352	0.57

*320mm wide tracks

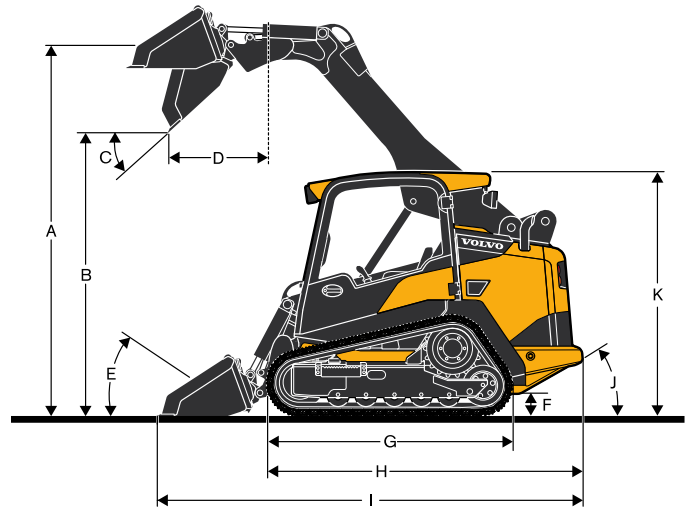
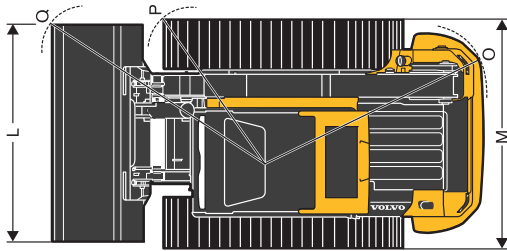
Volvo C series compact track loaders



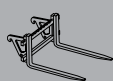
	Units	MCT125C	MCT145C
Engine			
Model		TCAE-55	TCAE-55
Cylinders		4	4
Fuel type		Diesel	Diesel
Displacement	cm ³	4 399	4 399
Aspiration		Turbo	Turbo
Cooling system		Water	Water
Horsepower			
SAE gross power	kW	55	55
SAE net power	kW	54.5	54.5
@ engine speed	@ rpm	2 200	2 200
Max. gross torque	Nm	400	400
@ engine speed	@ rpm	1 200	1 200
Max. no load speed	rpm	2 450	2 450
Electrical system			
Battery	V - Ah	12 - 109	12 - 109
Alternator	Ah	95	95
Starter	kW	4.2	4.2
Drivetrain			
Tracks standard	mm	320	450
Ground pressure with standard tracks	kPa	44.6	33.8
Tracks optional	mm	450	
Ground pressure with optional tracks	kPA	31.7	
Hydraulics system-loader			
Std hydraulic pump output flow	lpm	90	90
High flow pump output @ rated rpm	lpm	125	125
@ engine speed	@ rpm	2 450	2 450
System pressure	bar	230	230
Service capacities			
Cooling system	l	15.5	15.5
Engine crankcase with filter, change	l	15	15
Fuel tank	l	103	103
Hydraulic system - total capacity	l	60	60
Hydraulic reservoir capacity	l	26	26
Performance			
Lift arm path		Vertical	Vertical
Rated operating capacity at 35%*	kg	1 179	1 452
Rated operating capacity at 50%	kg	1 812	2 074
Tipping capacity (SAE)	kg	3 624	4 148
Operating weight (SAE)	kg	4 879	5 260
Breakout force, lift	kg	2 634	2 634
Breakout force, curl	kg	3 260	3 260
Maximum travel speed			
Single speed	km/h	9.0	9.0
Two speed	km/h	7.7 / 12.6	7.7 / 12.6
Cycle time			
Raise (lifting)	seconds	5.1	5.1
Lower (power down)	seconds	3.5	3.5
Curl	seconds	1.4	1.7
Dump	seconds	1.8	2.3

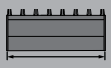


*Operating capacity for compact track loaders is according to SAE J818

in detail.



	Units	MCT125C	MCT145C
A	Height to hinge pin	mm	3 180
B	Dump height	mm	2 420
C	Dump angle	°	42
D	Dump reach	mm	870
E	Roll back angle	°	30
F	Ground clearance	mm	248
G	Trackbase	mm	2 100
H	Overall length (L/bucket)	mm	2 940
I	Overall length (W/bucket)	mm	3 690
J	Angle of departure	°	28.7
K	Overall height	mm	2 080
L	Bucket width	mm	1 980
M	Over track width (L/bucket)	mm	1 850*
O	Turning radius rear	mm	1 760
P	Turning radius front L/bucket	mm	1 480
Q	Turning radius front W/bucket	mm	2 420

Pallet forks		Overall height	Overall width	Overall length	Adjustable tine spacing		Pallet fork rating	Overall weight
		mm	mm	mm	mm	mm	kg	kg
MCT125C	PF-42	984	1 194	1 313	229	1 143	2 722	206
MCT145C	PF-48	984	1 194	1 466	229	1 143	2 722	218

Data according to bucket type	Bucket					
		Width mm	Length mm	Height mm		
MCT125C MCT145C	General Purpose Bucket	1 981	800	521	246	0.47
	General Purpose Bucket	2 134	800	521	261	0.50
	Landscape Bucket	1 981	953	521	264	0.58
	Landscape Bucket	2 134	953	521	279	0.63
	Multi Purpose Bucket	1 981	953	701	382	0.61
	Multi Purpose Bucket	2 134	953	701	401	0.66

*320mm wide tracks

Equipment.

STANDARD AND OPTIONAL EQUIPMENT

• = Standard O = Optional	MCT85C	MCT125C	MCT145C
Engine			
4-cylinder, 16-valve, electronic common rail, liquid-cooled, direct-injection, turbocharged diesel engine	•	•	•
Meet US EPA-Tier 4f, EU-Stage IIIB	•	•	•
Self-cleaning, dual-element, air cleaner, including primary filter and safety element	•		
Self cleaning, triple stage air cleaner, including built-in pre-cleaner with active scavenging, primary filter and safety element		•	•
12-Volt heavy-duty starter	•	•	•
Alternator with internal regulator	•	•	•
Grid heater	•	•	•
Quick cycle engine preheat	•	•	•
High-capacity radiator	•	•	•
Top mounted, hydraulic oil cooler	•	•	•
Auto-idling	•	•	•
Reversible fan	O	O	O
Maintenance-free Diesel Oxidation Catalyst (DOC)	•		
Spark arrestor muffler	O	O	O
Engine block heater 110V	O	O	O
Engine block heater 240V	O	O	O
External pre-cleaner (cyclonic type)	O	O	O
Cab, canopy equipment			
Isolation mounted canopy, FOPS & ROPS, with low left-hand side door	•	•	•
Isolation mounted, heated fully glazed sealed and pressurized cab, FOPS & ROPS, washer/wiper and sliding left hand window	O	O	O
Isolation mounted, Air conditioned/heated fully glazed sealed and pressurized cab, FOPS & ROPS, washer/wiper and sliding left hand window	O	O	O
Right-hand laminated glass	•	•	•
Cab access step on undercarriage	•	•	•
Top window	•	•	•
In-cab rearview mirror	•	•	•
Interior light	•	•	•
Pod storage area	•	•	•
12-Volt power accessory outlet	•	•	•
Cup holder	•	•	•
Emergency exit through front windshield	•	•	•
Radio with Aux. In	O	O	O
In-cab fuse panel	•	•	•
In-cab analog hourmeter	O	O	O
Control panel			
Engine start/stop key switch	•	•	•
Electronic hand throttle	•	•	•
Electric lift and tilt hydraulic lockouts	•	•	•
Park brake switch	•	•	•
Full audible and visual warning systems (Charge pressure, Coolant temperature, Hydraulic oil and Engine oil pressure, Air filter restriction, Alternator)	•	•	•
Fuel gauge	•	•	•
Coolant temperature gauge	•	•	•
Hydraulic oil temperature gauge	•	•	•
Hourmeter	•	•	•
Keyless start with immobilizer	O	O	O

• = Standard O = Optional	MCT85C	MCT125C	MCT145C
Controls			
3-way function levers	•	•	•
7-way function levers, with 14-pin connector	O	O	O
Operator modes	•	•	•
Control pattern selection: ISO or H-pattern	O	O	O
Foot throttle	•	•	•
Seats and seat belts			
Operator seat bar	•	•	•
Mechanical suspension seat, vinyl	•	•	•
Air suspension seat, heated, with adjustable control pods, vinyl	O	O	O
Air suspension seat, heated, with adjustable control pods, cloth	O	O	O
2" retractable seat belt	•	•	•
3" retractable seat belt	O	O	O
3pts 2" retractable seat belt	O	O	O
3pts 3" retractable seat belt	O	O	O
Loader arm & Hydraulic functions			
Vertical lift	•	•	•
Parallel lift (raise)	•	•	•
Lift-arm mounted auxiliary hydraulics (Flat face couplers)	•	•	•
Left hand mounted auxiliary couplers	O	O	O
Low flow case drain return line	•	•	•
High flow auxiliary hydraulics	O	O	O
Mechanical attachment bracket	•	•	•
Assisted attachment bracket	O	O	O
Boom Suspension System	O	O	O
Float function	•	•	•
Creep control	O	O	O
Travel lock kit	O	O	O
Hardide pivot pins (loader to coupler)	O	O	O
Lighting & warning			
2 front 50-Watt work lights	•	•	•
1 rear 50-Watt work light (2 if AC)	•	•	•
Additional (2nd) 50-Watt work light (if no AC)	O	O	O
Rotating beacon	O	O	O
Tall rotating beacon	O	O	O
Back-up alarm with rear light	•	•	•
White noise back-up alarm	O	O	O
Road light kit	O	O	O
Driveline, undercarriage			
2 servo-assisted variable displacement piston pumps mounted in tandem	•	•	•
2 fixed displacement high torque motors	•	•	•
2-speed	O	O	O
Tracks 320 mm	•	O	
Tracks 450 mm		•	•
Hydraulic park brake	•	•	•

• = Standard
 O = Optional

	MCT85C	MCT125C	MCT145C
Maintenance			
Lockable rear service door	•	•	•
Heavy-duty, maintenance-free battery - 1000CCA	•	•	•
Master electrical shut-off switch	•	•	•
Lockable fuel cab	•	•	•
Tilting canopy/cab	•	•	•
Lift-arm support strut	•	•	•
Emergency boom lower valve	•	•	•
Segment protection packages			
Equip your Skid Steer Loader with special application packages, including:			
FOPS level 2 roof guard			
Front screen guard			
Heavy duty rear bar			
Tilt cylinder guard			
Lexan screen			
Mud guards and fuel cap protection			
etc			

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Heated cab with air conditioning for year-round comfort



Heated air suspension seat provides even higher level of comfort



High flow auxiliary hydraulics



2-speed option helps you get the job done faster



Volvo assisted attachment bracket allows the operator to change attachment from the seat



VOLVO

Volvo Construction Equipment

www.volvoce.com