

VOLVO CONSTRUCTION EQUIPMENT

BUILDING & UTILITIES



VOLVO CONSTRUCTION EQUIPMENT



Machine performance and versatility, operating costs, machine operability, safety and proximity to your local dealer...We recognize all these considerations as essential to your line of business.

With the building and utilities sector - a key area of focus for Volvo Construction Equipment - our aim is to ensure customer satisfaction against all these criteria to ensure you can run your business profitably.

From crawler and wheeled excavators to wheel loaders; compaction equipment to an expanded range of compact/utility equipment and attachments; not to mention articulated haulers for those larger projects...Volvo has it all.

In commercial and residential building; whether for heavy excavation work or the installation of light utilities, the comprehensive product lineup from Volvo Construction Equipment can provide solutions for your needs.

In addition to an extensive range of equipment and attachments, you can count on Volvo Financial Services, rental services, and a level of customer support that is second to none. Always close at hand, you can count on Volvo Construction Equipment as your business partner.

SOLUTIONS TO HELP YOU SUCCEED



CRAWLER EXCAVATORS



Crawler Excavator Line

EC140D, ECR145D, EC160D, EC220D, ECR235D, EC250D, EC300D, ECR305C, EC340D, EC380D, EC480D, EC700C

Wheeled Excavator Line

EW160D, EW180D, EW210D

Operating Weight Range

29,500 - 158,000 lbs (14.8 - 79.0 tons)
(13,400 - 71,670 kg)

Net Engine Power & Torque Ranges

114 - 424 hp, 395 - 1,660 lbf ft
(85 - 316 kW), (535 - 2,250 Nm)

Lift Capacity Range

5,130 - 48,940 lbs (2,327 - 22,200 kg)

Powerful Hydraulics

- Work modes match hydraulic speed & power in different applications.
- Boom/arm summation system maximizes power by prioritizing functions - as digging forces increase, flow, at the same pressure, increase hydraulic power.

Durable Frame

- Upper & lower, robotically welded frames are strategically reinforced for increased durability in your toughest applications.

Fuel Efficient Volvo Engine

- High torque at low rpm delivers industry leading fuel efficiency.
- High-capacity, variable speed engine cooling fans run as required to keep engine at maximum efficiency.

Volvo Care Cab

- Best-in-class cab filtration, adjustable seat, arm rests, air conditioning, excellent visibility & anti-glare LCD color monitor with rearview camera are standard.
- CareTrack telematic monitoring system, & Contronics/MATRIS, our on-board diagnostic systems, are standard - these systems provide maximum uptime.

Easier Service

- Easily accessible hatches and service areas, remote-mounted fluid drains and easy filter locations during replacements help lower machine downtime.

WHEEL LOADERS



Highly Efficient Volvo Powertrain

- High torque at low rpm (1100-1600 rpm) engine, designed together with the high flow, load-sensing hydraulics provide fast hydraulic speeds and high fuel efficiency.
- OptiShift, with lock-up torque converter and Reverse-By-Braking technology, increases overall fuel efficiency by up to 15%. (L150G - L350F)
- Forced oil-cooled, outboard-mounted, wet disc brakes lower operating costs by increasing the life of your brakes - brake wear indicators lowers downtime. (L60G-L350F)
- Selectable 100% differential lock in the front axle for L60G - L250G and both axles for L45G and L50G provide maximum traction.
- L45G & L50G hydrostatic transmission is an infinitely variable transmission. The speed gears limit the max. travel speed within the range - without any tractive power interruption. Reliable wet disc brakes with nitrogen-charged accumulators & hydraulic inching pedal.

Powerful Linkages

- Torque Parallel Linkage (L45G - L220G) - high breakout torque and parallel lift at all heights and attachment angles provide excellent visibility to help increase production.
- Z-Bar Linkage (L250G, L350F) - high breakout force at ground level allow for easy filling of bucket. Linkage provides excellent visibility to help increase production.

Volvo Care Cab

- Best-in-class cab filtration, ergonomically-placed switches, adjustable seat and steering wheel, and low internal sound levels all provide excellent operator comfort to help increase production rates over a day's shift.
- CareTrack telematic monitoring system, & Contronics/MATRIS, our on-board diagnostic systems - these systems provide maximum uptime.

Wheel Loader Line

L45G, L50G, L60G, L70G, L90G, L110G, L120G, L150G, L180G, L220G, L250G, L350F

Operating Weight Range

19,026 - 110,000 lbs (9.5 - 55.0 tons)
(8,630 - 49,895 kg)

Net Engine Power & Torque Ranges

98 - 528 hp, 299 - 1,870 lbf ft
(73 - 394 kW), (406 - 2,535 Nm)

Full Turn Tipping Capacity Range

11,547 - 74,870 lbs (5,250 - 33,960 kg)

Bucket Breakout Force Range

13,421 - 88,280 lbf (59.7 - 392.6 kN)

Travel Speed Range

22.0 - 28.0 mph (35.4 - 45.0 kph)

MOTOR GRADERS



Motor Grader Line

G930B, G940B, G946B, G960B, G970, G976, G990

Operating Weight Range

34,830 - 48,720 lbs (17.4 - 24.4 tons)
(15,800 - 22,100 kg)

Net Engine Power Range

155.0 - 265.0 hp
(116.0 - 198.0 kW)

Forward Travel Speed Range

8-Speed Transmission (8F/4R)

Up to 28.1 mph (45.2 kph) forward

11-Speed Transmission (11F/6R)

Up to 30.5 mph (49.1 kph) forward

Highly Efficient Volvo Powertrain (Engine, Transmission, Axles & Brakes)

- Triple power curves provide optimum power at all operating speeds.
- Load-sensing hydraulics promote higher fuel efficiency.
- HTE 840 transmission offers automatic downshifting & shuttle shifting - a feature enabling directional shifts without clutching (8F/4R).
- HTE 840 Autoshift (optional) & HTE 1160 features multiple operating modes - economy/manual/transport (HTE 1160 - 11F/6R).
- Four individual, multiple wet-disc wheel brakes feature a dual cross-over system with an electric backup system.
- All service functions including grease zerks and fuel fill are accomplished at ground level for quick servicing which helps lower downtime.

Grading Performance

- Excellent blade down force provides increased productivity and circle turn torque allows movement of material while operating at optimum speeds.
- An optional lifetime frame warranty is available.

Volvo Care Cab

- Reduced shifter movement for repetitive operations - simply moves the shifter straight forward/back to change directions. G946B features joystick controls. (optional)
- CareTrack remote monitoring system, & Contronics/MATRIS, our on-board diagnostic systems, are standard - these systems provide maximum uptime.

ARTICULATED HAULERS



Highly Efficient Volvo Powertrain (Engine, Transmission, Axles & Brakes)

- High torque at low rpm (1800 - 2100 rpm) engine provides over six horsepower per ton on average promoting high production and excellent fuel efficiency.
- Automatic Traction Control simplifies operation and provides automatic lock-up of dog-clutch differentials which provides maximum torque and extreme off-roading.
- Industry-exclusive self-compensating steering ensures accurate cornering lines.
- **Full suspension haulers** feature an industry exclusive suspension system that use full flow hydraulic cylinders on each wheel with self-leveling capabilities. **Productivity increases of up to 32%** on rough, dry roads with these models.

Easier Service

- No daily or weekly maintenance on all Volvo haulers provides maximum uptime.
- Servicing at 250 hours, low number of greasing points, easily accessed oil engine filters and drain keep you working.

Volvo Care Cab

- Air suspension seat, air-conditioning, CD player, tilt/telescopic steering wheel are standard in order to increase comfort which helps production over a day's shift.
- CareTrack remote monitoring system, & Contronics/MATRIS, our on-board diagnostic systems, are standard - these systems provide maximum uptime.

Articulated Hauler Line

A25F, A30F, A35F, A35FFS, A40F, A40FFS (FS - Full Suspension)

Payload Range

52,910 - 85,980 lbs (26.5 - 43.0 tons)
(24,000 - 39,000 kg)

Capacity Range

19.6 - 31.4 yd³
(15.0 - 24.0 m³)

Net Operating Weight Range

48,200 - 67,800 lbs (24.1 - 33.9 tons)
(21,900 - 30,800 kg)

Net Engine Power & Torque Ranges

314 - 465 hp, 1,504 - 1,862 lbf ft
(234 - 347 kW), (2,040 - 2,525 Nm)

Travel Speed Range

33 - 35 mph
(53.0 - 57.0 kph)

SOIL COMPACTION & MILLING

Soil Compaction Line

SD25D, SD45D, SD75, SD160, SD200

Operating Weight Range

5,650 - 44,500 lbs (2,563 - 20,185 kg)

Engine Power Range

44 - 203 hp (32.8 - 151.4 kW)

Drum Width Range

42 - 84 in (1,070 - 2,130 mm)

Centrifugal Force Range

14,020 - 80,800 lbs (62.36 - 359.4 kN)

Nominal Amplitude Range

.045 - .087 in (.05 - .09 mm)

Vibration Frequency Range

27.5 - 36.7 Hz



Performance - Operator Comfort - Easier Service

- High centrifugal forces promote fewer passes for maximum density.
- Industry exclusive, isolated low density polyethylene (LDPE) operator platform reduces vibration by 95% (not on SD25).
- Ground-level access to daily check points, fuel tank, oil dipstick and hydraulic filters.
- Drum vibration isolators can be replaced without removing the drum from the frame.

Milling Machine Line

MT2000 (Tracked) , MW500 (Wheeled)

Engine Power

MT2000: 610 hp (455 kW)

MW500: 127 hp (95 kW)

Operating Weights

MT2000: 80,930 lb (36,710 kg)

MW500: 20,062 lb (9,100 kg)

Max Width of Cut

MT2000: 78.75 in (2,000 mm)

MW500: 19.7 in (500 mm)

Max Depth of Cut

MT2000: 14 in (360 mm)

MW500: 8.3 in (210 mm)

Conveyor Discharge Height

MT2000: 15 ft 7 in (4,750 mm)

MW500: 11 ft (3,350 mm)



Performance - Engine - Operator Comfort - Easier Service

- Optimal weight/hp ratio for cutting performance and stability.
- Tier 3 Volvo engines meet or exceed EPA emissions regulations.
- Error messages are communicated in phrases rather than codes for easier understanding.
- Built-in diagnostic screens for all machine functions.

COMPACT WHEEL LOADERS



A Productive Line of Compact Wheel Loaders

- Spacious operator stations and ergonomic controls keep operators comfortable over long shifts.
- Separate working and steering pumps ensure lag-free operation.
- Standard, operator-selectable 100% differential locks on both axles provide for optimal traction in slippery applications.

A Full Line of Attachments to Meet Your Needs

- Volvo offers a full line of attachments to keep these machines working in a variety of applications.
- An option of Volvo attachment bracket or universal skid steer attachment bracket make it easy to change out attachments from the cab (L20F and L25F).
- 3rd function hydraulics are offered as standard on all models.

A Value You Can Trust

- Powerful, fuel efficient Volvo engines that meet or exceed latest Tier emissions requirements.
- Safe, easy entry and exit with large grab handles and steps to help maintain 3 points of contact.

Easier Service

- Ground level service points, pressure test ports, remote fluid drains, and easy filter replacements.
- Transverse-mounted engine provides easy access to filters and fills under the lockable engine hood.

Compact Wheel Loader Line

L20F, L25F, L30B, L35B

Operating Weight Range

9,945 - 13,710 lbs (4,510 - 6,220 kg)

Net Engine Power Range

54.0 - 75.0 hp (40.0 - 55.0 kW)

Full Turn Tipping Capacity Range

6,175 - 9,480 lbs (2,800 - 4,300 kg)

Bucket Breakout Force Range

6,970 - 13,600 lbf (31.0 - 60.5 kN)

Travel Speed Range

19.0 mph (30.0 kph) (High-Speed)

COMPACT EXCAVATORS



Compact Excavator Line

Conventional radius: EC20C, EC35C, EC55C
Short radius: ECR28, ECR38, ECR58, ECR88

Operating Weight Range

4,078 - 18,700 lbs (1.85 - 8.50 t)

Net Engine Power Range

162 - 568 hp (119 - 42 kW)

Arm Tearout Force Range

2,810 - 9,217 lbf
(12.5 - 41 kN)

Bucket Breakout Force Range

4,159 - 12,589 lbf
(18.5 - 56.0 kN)

Max. Reach at Ground Level Range

13'4" - 23'0"
(4080 - 7010 mm)

A Versatile Line of Compact Players

- Offering both conventional radius and short radius machines, Volvo is sure to have the machine for your application.
- Spacious operator stations and ergonomic controls keep operators comfortable over long shifts. Side-mounted engines on ECR machines help maximize cab size.
- All machines come standard with an easily accessible ISO / SAE control pattern change valve so you can operate the way you want.
- Load-sensing hydraulics deliver maximum flow at low rpm - provides for fast digging and swinging.

A Value You Can Trust

- Powerful, fuel efficient Volvo engines that meet or exceed latest Tier emissions requirements.
- Safe, easy entry and exit with large grab handles and steps to help maintain 3 points of contact.
- Robotically welded frame reinforced on both upper and lower structures for more durability.

Easy Service to Keep You Running

- Ground level service points, pressure test ports, remote fluid drains, and easy filter replacements.
- Filters and fills easily accessible underneath a one-piece, lockable engine hood.

BACKHOE LOADERS



Performance - Transmission - Easier Service

- Swing casting features massive top and bottom yokes with large pivot bushings.
- Fully automatic powershift transmission features 4-forward and 4-reverse speeds with kickdown for fast shifting from 2nd to 1st gear

Hydraulics

- The BL70B features closed-center, load-sensing, flow-sharing valves coupled with a variable displacement pump.
- Maintenance-free extendable dipper allows for higher versatility and provides for superior craning ability.
- Optional thumb available for factory or field retro-fit works seamlessly with extendable dipper.

A Value You Can Trust

- Outboard, wet-disc brakes and planetaries, front and rear cast steel axles with improved axle mounting design.
- Industry-exclusive high-mounted swing cylinders avoid seal contamination from ground contact

Easier Service

- Rear-tilting engine hood, ground level service points, pressure test ports, remote fluid drains, and easy filter replacements.

Backhoe Line

BL60B, BL70B

Operating Weight Range

16,200 - 17,250 lbs (7,340 - 7,820 kg)

Net Engine Power Range

83.0 - 90.0 hp (62.0 - 67.0 kW)

Maximum Travel Speeds Range

Forward/Reverse - 21.0 mph (34.0 kph)

Loader Breakout Force

Up to 12,450 lbf (55.4 kN)

Bucket Digging Force

Up to 13,300 lbf (59.1 kN)

SKID STEER LOADERS



Skid Steer Loader Line

MC60C, MC70C, MC85C, MC95C,
MC110C, MC115C, MC135C,

Compact Track Loader Line

MCT85C, MCT125C, MCT135C

Operating Weight Range

6,065 - 11,200 lbs (2,750 - 5,080 kg)

Net Engine Power Range

47.0 - 92.0 hp (35.1 - 68.6 kW)

Rated Operating Capacity Range

1,350 - 3000 lbs (612 - 1,360 kg)

Bucket Breakout Force Range

4,010 - 7,180 lbs (1,818 - 3,260 kg)

Travel Speed Range

7.5 - 12.4 mph (12.0 - 20.0 kph)

A Versatile Line of Compact Players

- 2-speed travel option (12.4 mph) for fast operation or transport around the jobsite.
- Ergonomic pilot controls and cab environment keep operators comfortable over long shifts.
- Demolition package available; FOPS Level 2 roof guard, front screen guard, heavy duty rear bars, twine cutters, fire extinguisher. Solid tires and solid flex tires available.

A Full Line of Attachments to Meet Your Needs

- Volvo offers a line on attachments for this segments plus alliances with other specialty attachments manufacturers to supply the market place.
- Ability to interchange certain attachments with compact wheel loaders.
- Hydraulic attachment bracket is available for larger models.

A Value You Can Trust

- Powerful, fuel efficient engines that meet or exceed latest Tier emissions requirements.
- Easy left-side entry and exit on C-Series models with up to 270 degrees of unobstructed visibility.
- Robust, single-arm design comes with a lifetime warranty.

Easier Service

- Ground level service points, pressure test ports, remote fluid drains, and easy filter replacements.
- Forward-tilting cab provides for unprecedented access to driveline and main components for servicing.

COMPACT TRACK LOADERS



A New Line to Meet Customer Needs

- Designed for 2-speed travel for fast transport around the jobsite (optional).
- Hydraulic flow up to 35.7 gpm ensures efficient attachment performance.
- Ergonomic pilot controls and cab environment keep operators comfortable over long shifts.

A Full Line of Attachments to Meet Your Needs

- One-stop shop - Volvo offers a full line of attachments to keep these utility machines working in a variety of applications.
- With the SSL attachment bracket, you are able to interchange attachments with compact wheel loaders (L20F and L25F loaders with universal SSL attachment bracket).
- Optional hydraulic attachment bracket is also available.

A Value You Can Trust

- Powerful, fuel efficient Volvo engines that meet or exceed latest Tier emissions requirements.
- Easy left-side entry and exit with up to 270 degrees of unobstructed visibility.
- Robust, single-arm design comes with a lifetime warranty for first owner.

Easier Service

- Ground level service points, pressure test ports, remote fluid drains, and easy filter replacements.
- Forward-tilting cab provides for unprecedented access to driveline and main components for servicing.

Compact Track Loader Line

MCT85C, MCT125C, MCT135C

Operating Weight Range

8,195 - 11,200 lbs (3,720 - 5,080 kg)

Net Engine Power Range

59.0 - 92.0 hp (43.9 - 68.6 kW)

Rated Operating Capacity Range

1,900 - 3000 lbs (862 - 1,360 kg)

Bucket Breakout Force Range

4,720 - 7,180 lbs (2,140 - 3,260 kg)

Travel Speed Range

5.6 - 11.5 mph (7.8 - 12.6 kph)

VOLVO CONSTRUCTION EQUIPMENT NORTH AMERICA

A strong, dedicated, capable dealer network.

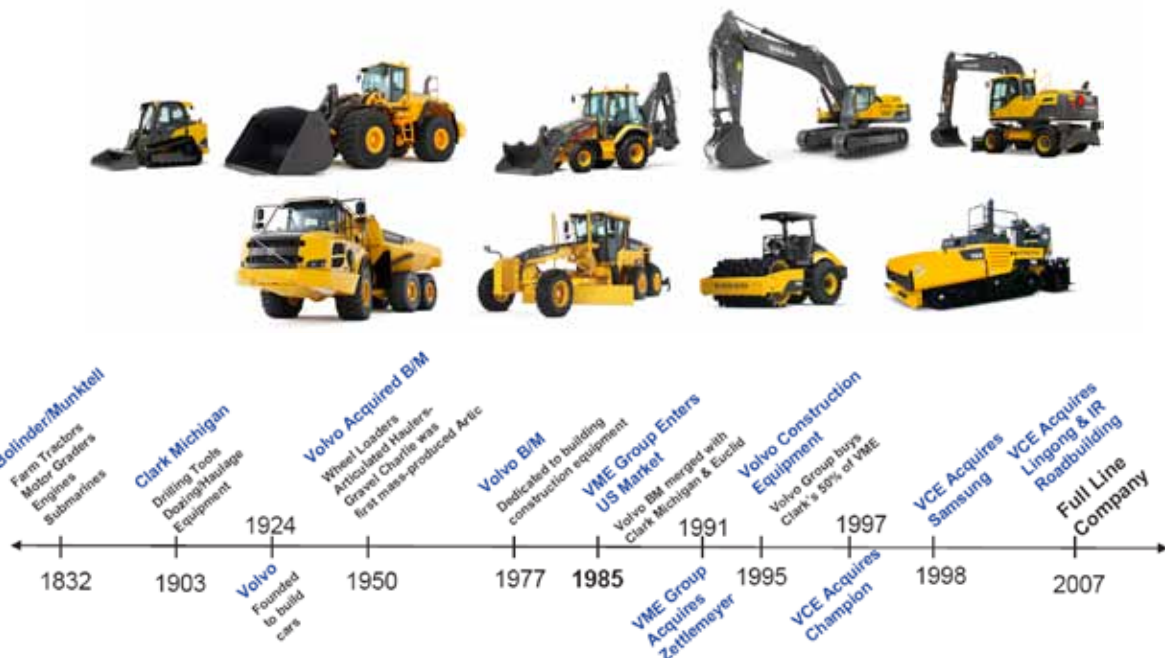
Our dealers are strategically located throughout North America to provide the equipment you need and the parts and service support you demand for a productive and profitable operation.

The strength of our dealer network is enhanced with extensive individualized product and product support training at our state-of-the-art Technical Training Center in Asheville and through hands-on training. At our nearby 80-acre Product Demonstration Center, visitors operate equipment from our entire product line under a variety of simulated working conditions. Both facilities are in year-round use by our dealers and customers – more than 2,000 visit each year.

Building the best starts right here.

The products designed and manufactured by Volvo Construction Equipment have their beginnings at the most advanced Research & Design centers in the industry. Volvo CE machines are designed in 11 R&D centers and produced in 15 manufacturing facilities across the world.

The major R&D center and manufacturing plant in the Americas is located in Shippensburg, Pennsylvania. This facility has been in operation for over 30 years and – with its recently added 200,000 sq ft expansion – now covers 570,000 sq ft on an 80 acre campus. Dedicated work teams and highly advanced technologies and techniques using the Volvo Production System ensure continuous quality improvements, labor savings and cost control to reach the high quality that our customers have come to expect from Volvo.



STRENGTH TO SUPPORT YOUR BUSINESS



CareTrack - The Volvo telematics system works with our exclusive machine tracking info system, MATRIS, using guided diagnostics to track and analyze machines remotely - minimizing costs and maximizing uptime.



Customer Support Agreements - Gives you peace of mind by reducing total ownership costs, maximizing uptime, and distributing maintenance and major repair costs.



Parts - Genuine Volvo Parts and certified Volvo technicians will keep your machine running and working hard over the long haul.



Attachments - Providing customers with a wide variety of attachments keep your machine working and open up new job opportunities.

GLOBAL STRENGTH OF VOLVO

Volvo has the expertise in designing power systems that move the world and providing you support you need to succeed. Our expertise shines in Volvo Construction Equipment,

Volvo Buses, Volvo Penta and Volvo Trucks - Volvo Financial Services help support you during purchasing phases. Our company performance has been honed on land, over the

sea, across the sky and into space. So when we say Volvo strength is tested and proven, you can believe it. Trust in it. It's the real advantage of Volvo global strength.



Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



Volvo Financial Services

VOLVO CONSTRUCTION EQUIPMENT

Volvo Construction Equipment is different. Our machines are designed, built and supported in a different way. That difference comes from an engineering heritage of over 175 years. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo.

Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

VOLVO

Construction Equipment

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