

Volvo Construction Equipment
Building Tomorrow



EC170D

Volvo Excavators 16.9-19.6 t 124 hp



A construction site at sunset. In the foreground, a Volvo excavator is silhouetted against the bright orange and yellow sky. In the background, several construction cranes are visible against the sky, and a building under construction is partially visible. The overall scene is hazy and atmospheric.

WELCOME TO OUR WORLD

Welcome to a world of industry leading machinery. A world where imagination, hard work and technological innovation will lead the way towards developing a future which is cleaner, smarter, and more connected. A world supported by the enduring values of the Volvo Group. A world of stability, sustainability and innovation. A world which we put our customers at the heart of.

Welcome to the world of Volvo Construction Equipment – we think you're going to like it here.

Working harder, working smarter

For over 180 years Volvo has been a pioneer in the design and manufacture of machines which set the standard for efficiency, performance and uptime. Across our range of excavators, wheel loaders and haulers, our reputation for engineering excellence is unrivalled, which means whatever your operation or application, we can provide a total fleet solution to help you succeed.

Building on our proud history, the Volvo Concept Lab continues to create cutting-edge ideas and innovative concepts, to ensure we offer customers machines which work harder and smarter long into the future.



Solutions for you

Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

Designed for your business

Structured across nine blocks, our portfolio of products and services are designed to complement your machine's performance and boost your profitability. Simply put, we offer some of the best guarantees, warranties and technological solutions in the industry today.

There when you need us

Whether you're buying new or used, our global network of dealers and technicians offer around-the-clock support, including machine monitoring and world-class parts availability. It's the basis of everything offered by Volvo Services, so you can be confident we've got you covered right from the start.

BUILDING TOMORROW

Optimized performance

Volvo Construction Equipment proudly introduces the EC170D crawler excavator, a new machine designed to deliver superior performance and high fuel efficiency. Powered by a premium D4 Volvo engine, this machine is built to work on a range of jobs from construction to quarrying and site preparation. Experience fast cycle times together with excellent digging and lifting capabilities with Volvo.

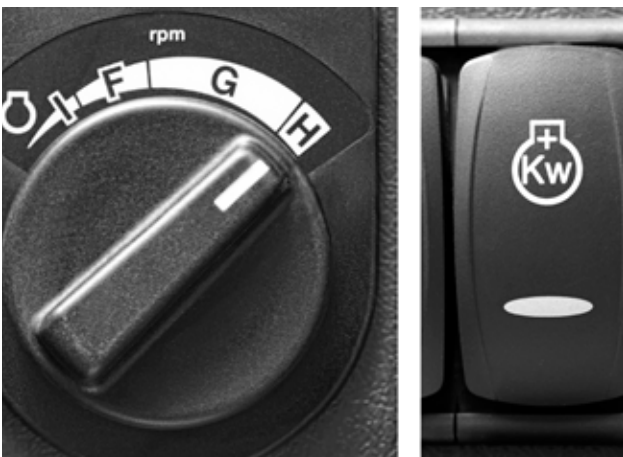
ECO mode

Volvo's unique ECO mode increases fuel efficiency by reducing engine rpm without any loss of performance in most operating conditions.



Work modes

Select the best work mode for the task at hand to ensure optimum performance and fuel efficiency. Choose the correct mode according to your working conditions for added versatility and increased performance.



Digging force

The optimized boom, arm and linkage geometry together with engine power and hydraulic pressure provides superior digging force – delivering large lifting capacities and fast cycle times in tough applications.



Hydraulic system

The Volvo hydraulic system is perfectly matched to the premium Volvo engine and components – delivering high digging force, fast cycle times and optimized fuel efficiency. The state-of-the-art system delivers fast response and smooth operation.



VOLVO ENGINE

Volvo's premium D4 engine is built with proven, advanced technology and on decades of experience. The state-of-the-art four cylinder engine delivers the ultimate combination of high performance and low fuel consumption.



IDEAL WEIGHT AND SIZE

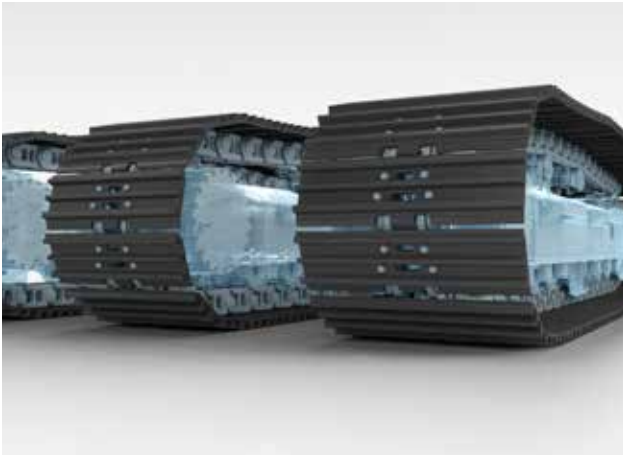
Fully compliant with all national on-road weight and size regulations, the EC170D has been designed for easy transportation

Built to meet your needs

The EC170D has been designed with mobility in mind. With an ideal transport configuration and a range of customizable features – including two undercarriage options and five track shoe widths – this crawler excavator has been engineered for easy transportation.

Five track shoe sizes

With five track shoe width options available, this excavator can be customized to meet specific on-road width restrictions. Wider track shoes increase stability and reduce ground pressure.



Two undercarriage options

Choose from two different undercarriage sizes to suit your specific needs. Select either the standard option or a longer, wider undercarriage for maximum stability when lifting heavy loads or working in difficult terrain.

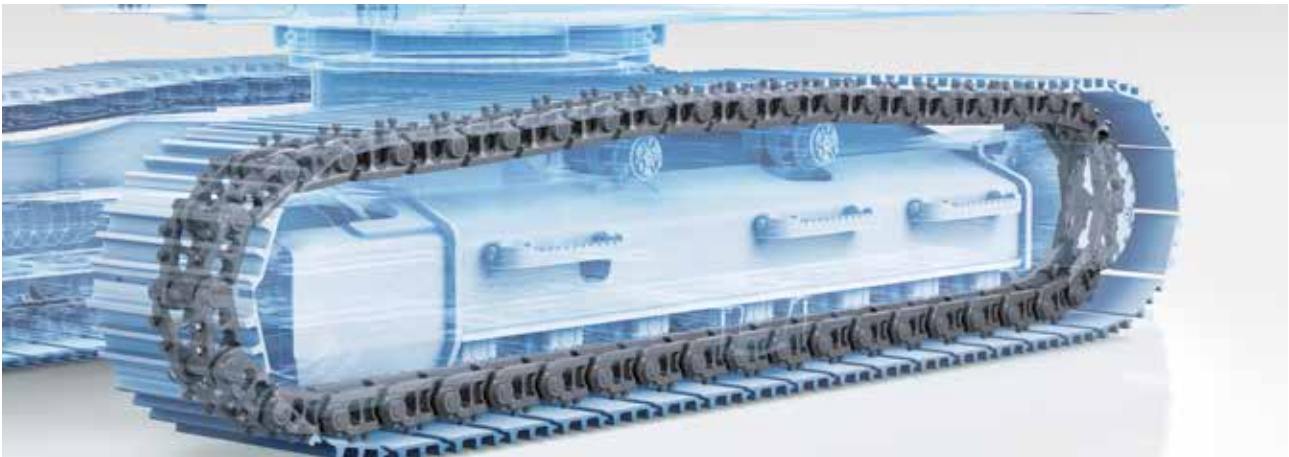


Durable by design

If you're looking for a strong and durable machine then look no further – the EC170D has been built to last. Featuring reinforced welding and heavy-duty protection, no job is too tough for this reliable machine.

Greased and sealed track chains

Track chain pins and bushings are greased and sealed for long life, reduced maintenance and increased durability.



Robust X-frame

The EC170D has a robot-welded, high tensile steel X-shaped frame. For increased durability, the lower frame is protected by general purpose undercover plates. Optional heavy-duty undercover plates provide additional protection in the most demanding applications.



Superstructure

The strong and durable superstructure absorbs external forces transferred through the frame during machine operation – protecting internal components and preventing cracking or torsional distortion. Reinforced welding between the center frame and side frames as well as the boom and boom cylinder mounts provides further durability.





HEAVY-DUTY BOOM AND ARM

The reinforced, heavy-duty boom and arm are built from high tensile steel for maximum strength, durability and reliability. Wear strips are welded to the underside of the arm for added protection in severe applications.



VOLVO CAB

With slim cab pillars and large expanses of glass, the Volvo cab offers superior visibility. The spacious cab features new Volvo styling, ample storage and leg room and ergonomically placed controls for increased comfort and productivity.

Comfort increases productivity

It's a fact that when operators are comfortable they work more efficiently. By putting the operator at the center of the cab design process, Volvo has created an environment optimized for productivity. With superior visibility, ergonomic controls and an I-ECU monitor for simple machine operation, operators will experience a comfortable and productive work shift in the EC170D.

Volvo seat

The adjustable seat has been designed to suit individual operator needs and enhance comfort during long work shifts.



Controls and switches

The ergonomic design and position of controls and switches allows the operator to easily control machine functions – increasing comfort and productivity.

Climate control system

The operator can set the temperature via the I-ECU with Volvo's powerful climate control system. The industry-leading air circulation and defrosting system quickly heats or cools the cab using 14 wellspaced vents for increased comfort and productivity.



I-ECU monitor

The 7" color LCD monitor clearly displays machine status information including fuel consumption data and service interval alerts in one of 30 languages. The anti-glare, tilttable screen enables easier machine operation and puts the operator in control – providing high performance and productivity.



Your uptime = our priority

Every machine requires service and maintenance. At Volvo we believe this essential work should be quick and easy to perform. With grouped filters and our CareTrack telematics system which allows you to plan service and maintenance requirements in advance, you'll spend more time working and earning with Volvo.

CareTrack

CareTrack is the state-of-the-art Volvo telematics system that provides access to a wide range of machine monitoring information designed to save machine owners time and money. Proactively manage service and maintenance schedules, optimize machine and operator performance and reduce fuel costs with CareTrack.



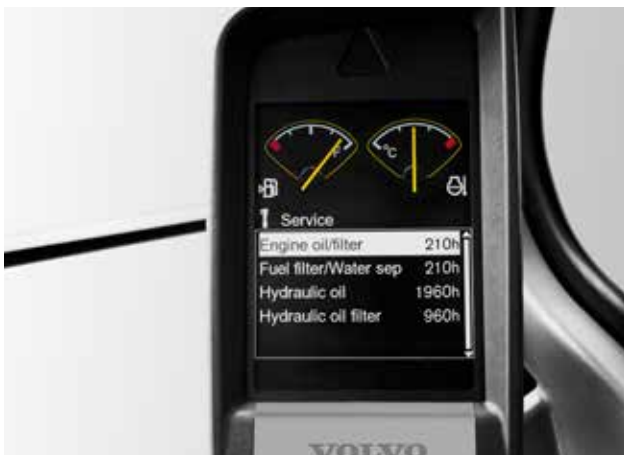
Anti-slip plates

Heavy-duty, punched anti-slip plates in the main service and maintenance areas provide safe access even in wet and icy conditions.



Service interval alerts

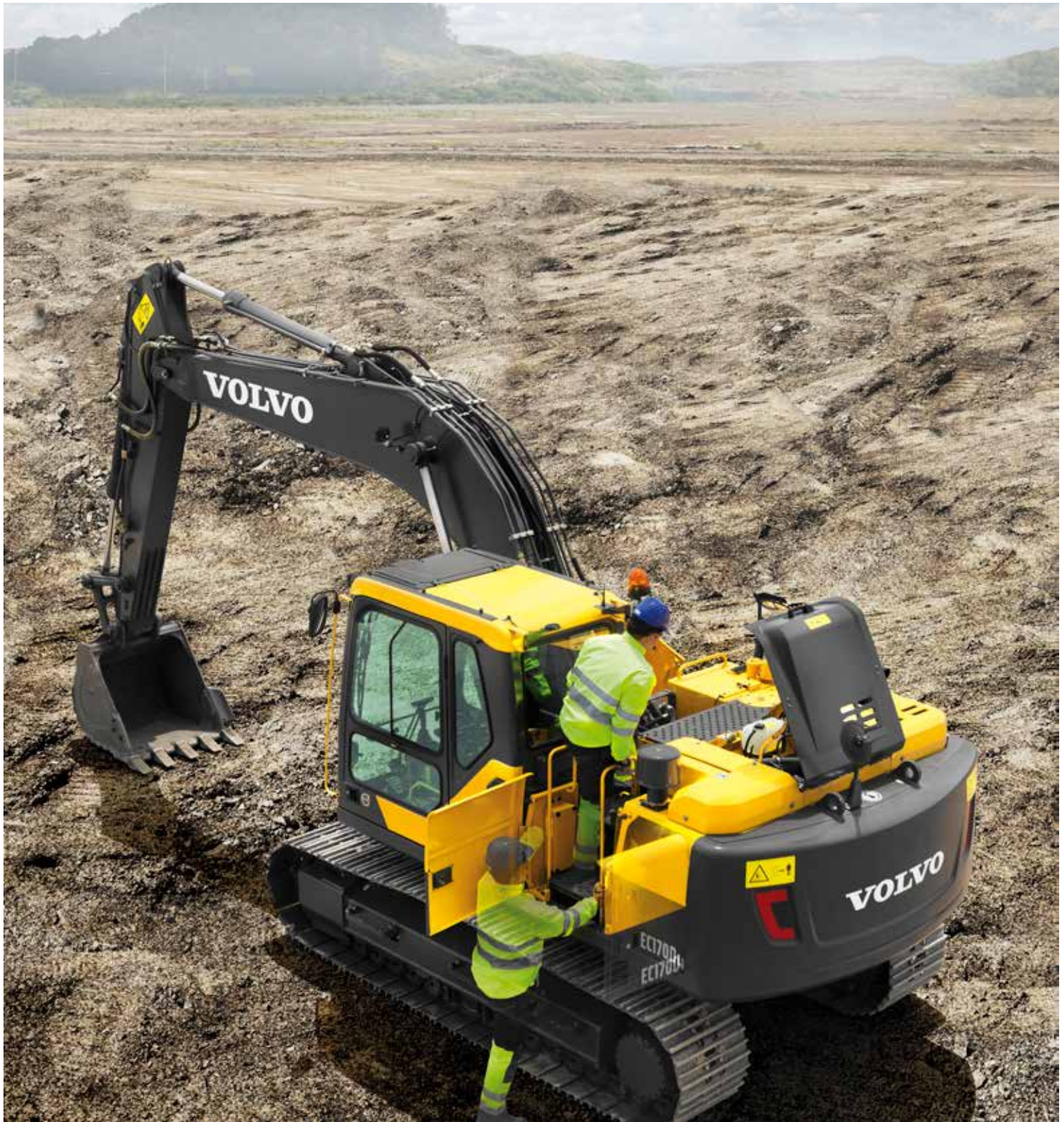
To enhance serviceability, the I-ECU monitor features a built in service interval display for easy monitoring of engine oil/filter, fuel filter/water separator, hydraulic oil and hydraulic oil filter.



Grouped filters

Grouped filters in the pump compartment are quick and easy to access from ground level via one door – enabling fast servicing and increased uptime.





REAR ACCESS

Steps and handrails behind the cab provide safe and convenient rear access to the main hydraulic components and engine

Volvo gives you more

Climate control system

Volvo's industry-leading, powerful climate control system quickly heats or cools the cab using 14 well-spaced vents for increased comfort and productivity.

ECO mode

Volvo's unique ECO mode increases fuel efficiency by reducing engine rpm without any loss of performance in most operating conditions.

HEAVY-DUTY BOOM AND ARM

The reinforced, heavyduty boom and arm are built from high tensile steel for maximum strength, durability and reliability.

Digging force

The optimized boom, arm and linkage geometry together with engine power and hydraulic pressure provides superior digging force.

FULL RANGE OF ATTACHMENTS

Volvo's durable attachments have been purpose-built to work in perfect harmony with Volvo excavators, forming one solid, reliable unit.

Two undercarriage options

Select either the standard undercarriage or a longer and wider undercarriage for maximum stability when lifting heavy loads or working in difficult terrain.



I-ECU monitor

The 7" color LCD monitor clearly displays machine status information including fuel consumption data and service interval alerts – enabling easier machine operation.

VOLVO CAB

Spacious cab with new Volvo styling features slim cab pillars and large expanses of glass for superior visibility. Ergonomic controls increase comfort and productivity.

VOLVO ENGINE

Volvo's premium D4 engine delivers the ultimate combination of high performance and low fuel consumption.

REAR ACCESS

Steps and handrails behind the cab provide safe and convenient rear access to the main hydraulic components and engine.

Service interval alerts

The I-ECU monitor features a built in service interval display for easy monitoring of engine oil/ filter, fuel filter/water separator, hydraulic oil and hydraulic oil filter.

IDEAL WEIGHT AND SIZE

Fully compliant with all national on-road weight and size regulations, the EC170D has been designed for easy transportation.

Five track shoe sizes

With five track shoe width options available, this excavator can be customized to meet specific on-road width restrictions



Get the most from your excavator

Maximize your excavator's productivity and profitability with Volvo's comprehensive range of attachments – designed to work in perfect harmony with Volvo machines. Access more applications and effectively perform a variety of tasks while experiencing reduced fuel consumption and reduced cycle times.

Attachment management system

The system allows storage of up to 20 different attachment settings and enables hydraulic flow to be adjusted according to requirements. Operators can change attachments quickly without manual set-up.



Volvo buckets

Volvo offers a range of high quality buckets designed to perform in a variety of materials. Featuring exceptional design and built in durability, Volvo buckets efficiently handle the toughest of jobs.



Hydraulic breaker HB15

Volvo's HB15 hydraulic breaker has been built to break the most demanding material. With consistent power and high breaking force you'll benefit from maximum impact and durability. Set your Volvo breaker at the right frequency to suit your application needs.



INTERFACES



Direct fit

For maximum productivity when only operating in one application, Volvo's direct fit attachments provide the best performance and shortest tip radius for high breakout force.

BUCKETS & GROUND ENGAGING TOOLS



General purpose bucket (GP)

The perfect tool for digging and re-handling soft to medium material such as dirt, sand and loose clay soils.



Heavy-duty bucket (HD)

This bucket excels at digging materials including loose rock, hard clay and gravel. It can be used in applications such as quarrying or mining.

Wear parts

Volvo offers side cutters as wear parts.



Endurance teeth

Volvo offers a range of economic, wear-resistant teeth and adapters that combine strength and durability. The proven teeth and adapters are engineered for high strength and impact absorption.



HYDRAULIC BREAKERS



Breaker package

The all-in-one HB15 hydraulic breaker package includes everything you need to start using your breaker. Depending on the machine, it contains a breaker, hydraulic hoses, a breaker bracket and tool.



Breaker tools

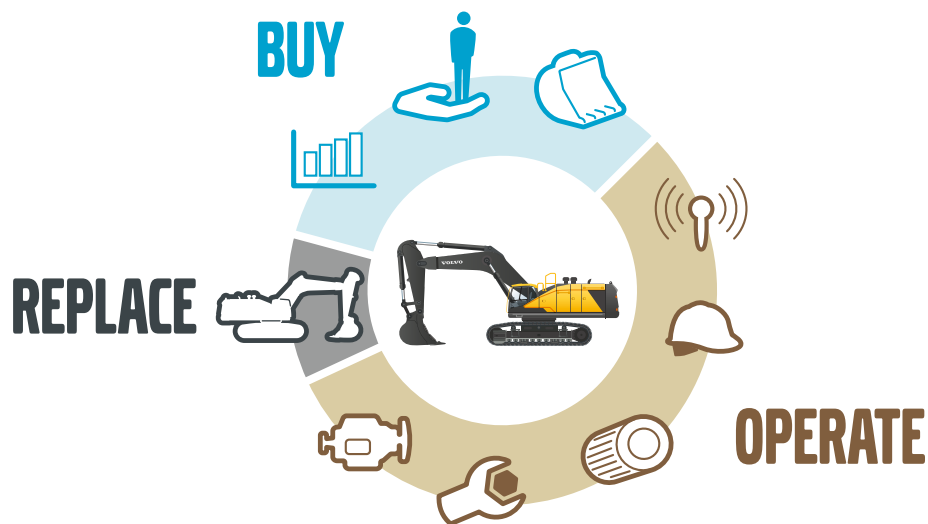
Volvo hydraulic breakers can be used in a variety of applications. To ensure optimum performance in your application select the right breaker tool from the range.

Adding value to your business

Being a Volvo customer means having a complete set of services at your fingertips. Volvo can offer you a long-term partnership, protect your revenue and provide a full range of customer solutions using high quality parts, delivered by passionate people. Volvo is committed to increasing the positive return on your investment and maximising uptime.

Complete Solutions

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.



Genuine Volvo Parts

Our attention to detail is what makes us stand out. This proven concept acts as a solid investment in your machine's future. Parts are extensively tested and approved because every part is vital for uptime and performance. Only by using Genuine Volvo Parts, can you be sure that your machine retains the renowned Volvo quality.

Service Network

In order to respond to your needs faster, a Volvo expert is on their way to your job site from one of our Volvo facilities. With our extensive infrastructure of technicians, workshops and dealers, Volvo has a comprehensive network to fully support you using local knowledge and global experience.





CUSTOMER SUPPORT AGREEMENTS

The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of your service costs.

Specifications

EC170DL

Operating weight	kg	16 900 - 19 600
Gross power	kW	91
... at engine speed	r/min	2 200
Bucket capacity	m ³	0.3 - 0.84
Lifting capacity, along undercarriage	kg	4 930
... at reach / height	m	6.0/1.5
Max. digging reach	mm	8 977
Max. digging depth	mm	6 043
Breakout force, SAE J1179 (Normal)	kN	101.5
Breakout force, SAE J1179 (Boost)	kN	107.3
Tear out force, SAE J1179 (Normal)	kN	80
Tear out force, SAE J1179 (Boost)	kN	84.6
Overall width	mm	2 490
Tail swing radius	mm	2 550

Based on machine configuration: EC170D, 5.2 m boom, 2.6 m arm, 500 mm shoe, 3 200 kg CWT

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

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