

Volvo Construction Equipment  
Building Tomorrow



# EC350D

Volvo Excavators 34.8-36.9 t 286 hp



A large wind turbine stands in a field under a warm, orange-hued sunset sky. The turbine's blades are partially visible, with one blade extending from the left side of the frame. The ground is a mix of brown and green, with some distant hills and a small body of water visible in the background.

# 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

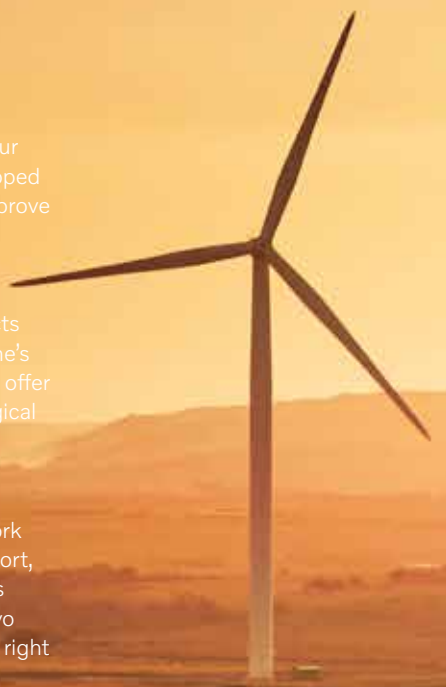
Our industry leading machines are just the start of your relationship with Volvo. As your partner, we have developed an extensive range of additional solutions to help you improve uptime, boost productivity and reduce costs.

### 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**

# More power, greater efficiency

Introducing the EC350D from Volvo – a powerful production machine designed to boost performance. State-of-the-art technology including Volvo's unique ECO mode, new electro-hydraulic system and fuel efficient D8 engine ensures this machine delivers fast cycle times, high digging power and low fuel consumption.



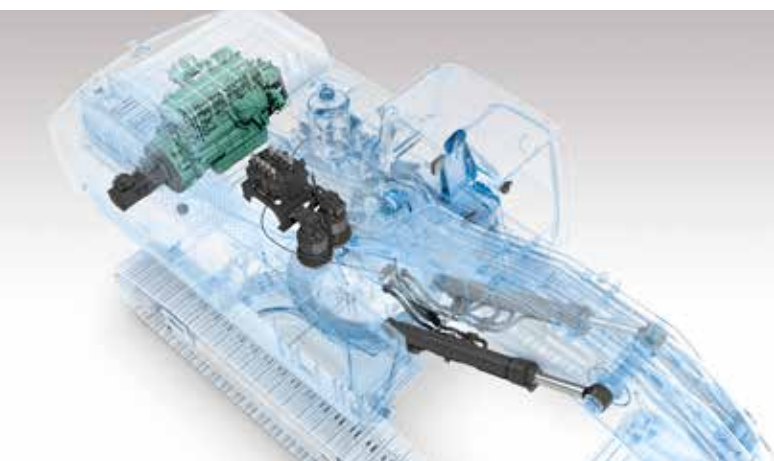
## Volvo D8 engine

Featuring advanced technology and built on decades of experience, the powerful, new Volvo D8 engine delivers the ultimate combination of high performance and low fuel consumption.



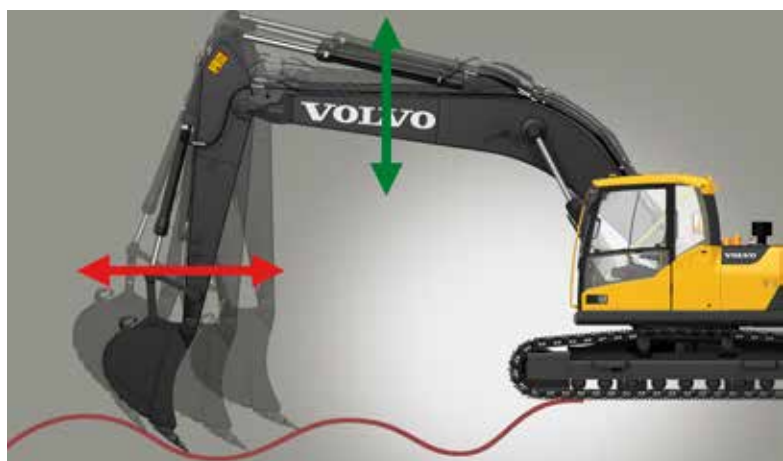
## Work modes

Volvo's unique, integrated work mode system now includes the G4 mode for optimum fuel efficiency and performance. Operators can easily select the best work mode for the task at hand – select from I (Idle), F (Fine), G (General), H (Heavy) and P (Power max).



## Advanced hydraulics

New electro-hydraulic system and main control valve use intelligent technology to control on-demand flow and reduce internal losses in the hydraulic circuit. This provides increased controllability, shorter cycle times and improved fuel efficiency.



## Boom float

This optional feature allows the boom to 'float' over the ground by simply using gravitational force. As a result, more hydraulic flow is available for other circuits – ensuring faster cycle times and more control in grading operations.

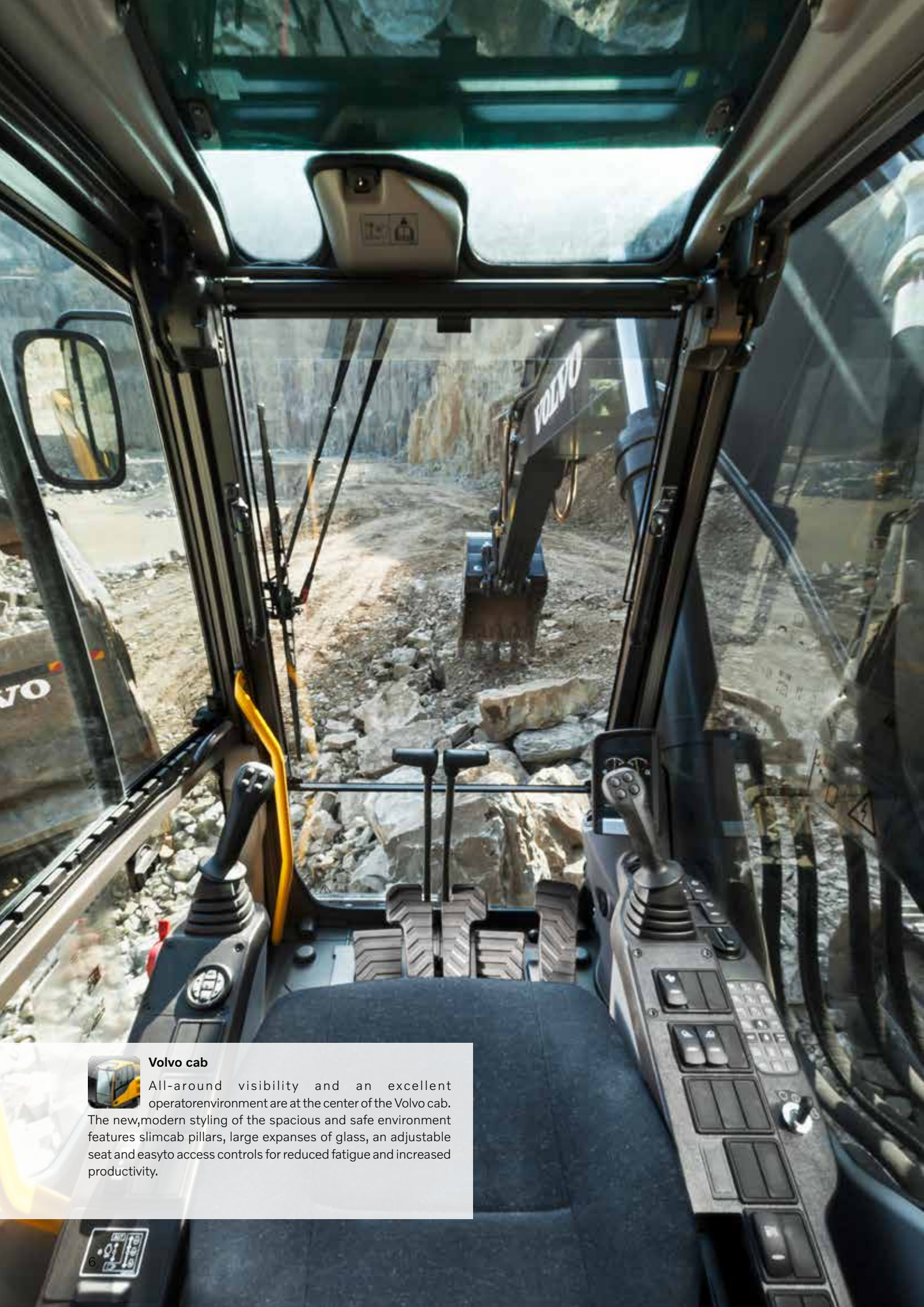




#### ECO mode

Volvo's unique ECO mode improves fuel efficiency without any loss of performance in most operating conditions. The design features electronic pump control technology which reduces flow and pressure losses while maintaining digging power and cycle time.





#### **Volvo cab**

All-around visibility and an excellent operator environment are at the center of the Volvo cab. The new, modern styling of the spacious and safe environment features slim cab pillars, large expanses of glass, an adjustable seat and easy-to-access controls for reduced fatigue and increased productivity.



# Productivity unleashed

At Volvo we know that a safe, comfortable operator is a productive worker. That's why the EC350D cab has been built strong and designed to facilitate efficient performance all day long. Step inside and experience the difference a premium working environment has on productivity.

## I-ECU

The new, color LCD monitor displays machine status information including fuel consumption data for high productivity. The user-friendly design features a large, anti-glare, tilttable screen and can be used in 30 languages.



## Control panel

Optimally positioned control panel enables the operator to easily navigate through the I-ECU monitor and activate machine functions in a safe and comfortable way.



## ROPS\*

A Roll Over Protective Structure (ROPS) certified cab is recommended for added safety in the unlikely event of machine roll over. This provides increased peace of mind in challenging applications.



## Climate control system\*

Industry-leading air circulation and defrosting system with 14 well-spaced vents for increased operator comfort and productivity.



## Rearview camera\*

The rearview camera increases safety by giving the operator visibility of the area behind the machine via the I-ECU monitor.

\* Optional in certain markets.

# The definition of strength

If you're looking for a strong and durable excavator to handle the most severe, heavy-duty applications then look no further than the EC350D. Whether you're working on a quarry, in construction or any other application, this robust, reliable machine excels in demanding conditions and won't let you down.

## Undercarriage components

Large, strong undercarriage components ensure smooth operation and long service life when working in high shock load applications. Various widths of durable track shoes increase machine stability and floatation.



## Undercarriage frame

The strong, three-piece undercarriage and high tensile steel X-shaped frame are built to withstand tough conditions. For ultimate durability, the idler frames and motor brackets are reinforced.



## Main frame

The robust and durable structure easily absorbs impacts transferred from the digging equipment. Welding between the center and side frames and the boom and boom cylinder mounts is reinforced for superior durability and performance.



## Side wear plates

Additional plates between the end of the arm and the bucket mounting area protect the arm-end bearing. The side wear plates are easily replaceable in the field - ensuring maximum machine uptime and reduced maintenance costs.

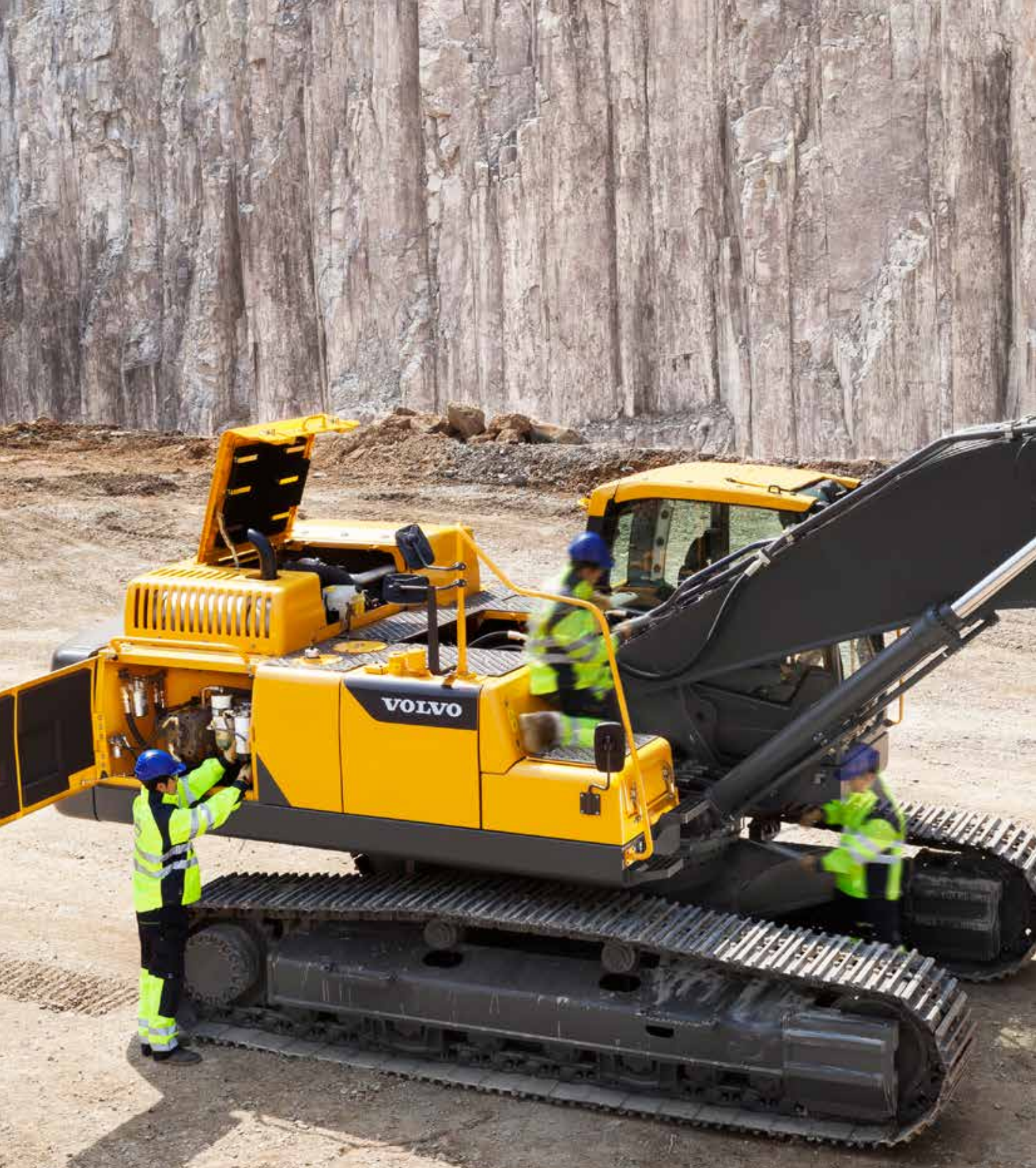




#### **Strong structure**

The strong and durable structure includes a reinforced boom and arm made from high strength tensile steel for maximum reliability. Thick plates around critical areas equally distribute mechanical stresses.





#### **Service access**

Grouped filters and greasing points are easy to access from ground level via large, wide compartment doors. The electrical distribution box, which contains all fuses and relays, is also accessed from ground level.



# Keep working, keep earning

The EC350D makes maintenance easy – allowing you to get the most out of each working day. With helpful features including grouped filters and greasing points and anti-slip plates for safe maintenance access, checks can be carried out faster and machine uptime will increase.

## Service display

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.



## Extra water separator\*

An additional water separator further prevents water and impurities from entering the engine. This feature provides increased water separation and filtration capacity for extended engine lifetime, durability and reliability.



## Cooling system

The radiator, charged air cooler and hydraulic oil cooler are situated side-by-side on a single layer to maximize efficiency, reduce blockages and aid cleaning. The system is easily accessed for maintenance by simply opening the side door from ground level.



## Oil bath pre-cleaner\*

An additional pre-cleaner prevents dirt from entering and damaging the engine for maximum reliability and reduced maintenance costs. This feature is recommended for machines working in dusty environments.

\* Optional in certain markets.

# 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.



## **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 breakers**

Volvo hydraulic breakers have been built to break the most demanding materials. 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.



## VOLVO QUICK COUPLERS & INTERFACES



### Dedicated quick coupler

Volvo's dedicated quick couplers are the ideal choice when you need high performance as well as the ability to easily switch between various attachments – including a tiltrotator. The lightweight design features a low build height and a tight fit to the attachment.



### Universal quick coupler

For ultimate flexibility, the universal quick coupler picks up a wide range of both Volvo and other brand attachments. The coupler can be used with buckets in both the face shovel and backhoe position.



### Direct fit

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

## VOLVO BUCKETS & GROUND ENGAGING TOOLS



### General purpose bucket

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



### Heavy-duty bucket

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



### Volvo Tooth System

Volvo's robust range of teeth and adapters are designed to cover all applications.



### Wear parts

For increased durability, Volvo provides segments, side shrouds, bottom shrouds, teeth, side cutters and bolt-on edges.

## VOLVO HYDRAULIC BREAKERS



### Volvo HB36

The all-in-one 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.

# The best machine for the job



## **Strong structure**

Strong and durable structure with a reinforced boom and arm allow the machine to work in the most severe, heavy-duty applications.

## **Advanced hydraulics**

New electro-hydraulic system and main control valve use intelligent technology to control on-demand flow for high performance and efficiency.

## **Work modes**

Volvo's unique, integrated work mode system now includes the G4 mode for optimum fuel efficiency and machine performance.

## **Optional boom float**

Reduce cycle time and improve control in grading operations by using gravitational force to 'float' the boom over the ground.

## **AMS**

The Attachment Management System (AMS) - controlled through the I-ECU - stores settings for up to 20 different hydraulic attachments.



## **Customer Support Agreements**

Volvo Customer Support Agreements (CSA) offer service and maintenance with maximum cost control and minimum downtime.





### I-ECU

The new, color LCD monitor clearly displays machine status information for easy operation and increased productivity.

### Extra water separator\*

An additional water separator further prevents water and impurities from entering the engine – providing extended engine lifetime, extra durability and reliability.



### Cab

Spacious and safe operator environment with all-around visibility, an adjustable seat and easy to access controls.



### ECO mode

Volvo's unique ECO mode improves fuel efficiency without any loss of performance in most operating conditions.



### Volvo D8 engine

The powerful, new Volvo D8 engine delivers the ultimate combination of high performance and low fuel consumption.

### Climate control system\*

Industry-leading air circulation and defrosting system with 14 well-spaced vents for increased operator comfort and productivity.



### Service access

Grouped filters and greasing points are easy to access from ground level via large, wide compartment doors.

### Robust undercarriage

The strong, three-piece undercarriage and high tensile steel X-shaped frame are built to withstand tough conditions.



# 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 the positive return of your investment.



## 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.





# Specifications

## EC350D

Operating weight	kg	34 300 - 38 700
Gross power	kW	210
... at engine speed	r/min	1 800
Bucket capacity	m <sup>3</sup>	1 - 2.53
Lifting capacity, along undercarriage	kg	12 480
... at reach / height	m	6.0 / 1.5
Max. digging reach	mm	11 110
Max. digging depth	mm	7 480
Breakout force, SAE J1179 (Normal)	kN	177
Breakout force, SAE J1179 (Boost)	kN	193
Tear out force, SAE J1179 (Normal)	kN	156
Tear out force, SAE J1179 (Boost)	kN	170
Overall width	mm	3 190
Tail swing radius	mm	3 560
Based on machine configuration: Boom 6.45m/21'2"; Arm 3.2m/10'6"; Shoe 600mm/24"; CWT 5 100kg/15,440lb		

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.





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