

Volvo Construction Equipment  
Building Tomorrow



# EC250D, EC300D

Volvo Excavators 23.5-33.1t 188-231hp



# 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**

# POWERFUL PERFORMANCE.



## Increased power

Experience increased power and digging force as well as faster cycle times for greater productivity. Compared to the previous model, hydraulic pump flow has improved by 5% while digging force, swing torque and tractive force have increased by 3-5%. In the EC300D, engine power has increased by 11%.

Operate with increased power and digging force in Volvo's EC250D and EC300D. With faster cycle times and greater productivity, these machines will help you to get the job done faster. Whether you work in the quarry, road construction, site preparation or any other application, you'll experience high performance from these powerful machines.



#### Improved structure

For maximum durability and reliability, the boom and arm have been reinforced in critical areas to equally distribute mechanical stresses and handle the increased working power of these machines.

#### Electro-hydraulic system

New electro-hydraulic system and main control valve (MCV) 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.



#### Improved controllability

Both grading and combined operations have been improved thanks to Volvo's smart hydraulic system which increases controllability. Benefit from smoother and easier movement when traveling and lifting simultaneously as well as better grading quality from the harmonized boom and arm movement.

# SAVE FUEL WITH VOLVO.

If you're looking for a fuel efficient and productive machine that will increase your competitive edge look no further than Volvo's latest offering. With proven, advanced technology the EC250D and EC300D offer customers a 7% - 10% increase in fuel efficiency compared to the previous model. Increase production, reduce fuel consumption and reach new levels of efficiency with Volvo.

## Volvo D7 engine

Volvo's state-of-the-art D7 diesel engine is seamlessly integrated with all excavator systems. The premium, six cylinder engine delivers high performance and low fuel consumption. The D7 is available in two versions to comply with regional emission regulations.

## Auto engine shutdown

The optional auto engine shutdown function automatically turns the engine off to reduce fuel consumption when the machine is inactive for a preset amount of time (five minutes is the default setting). The operator is informed one minute before this occurs.



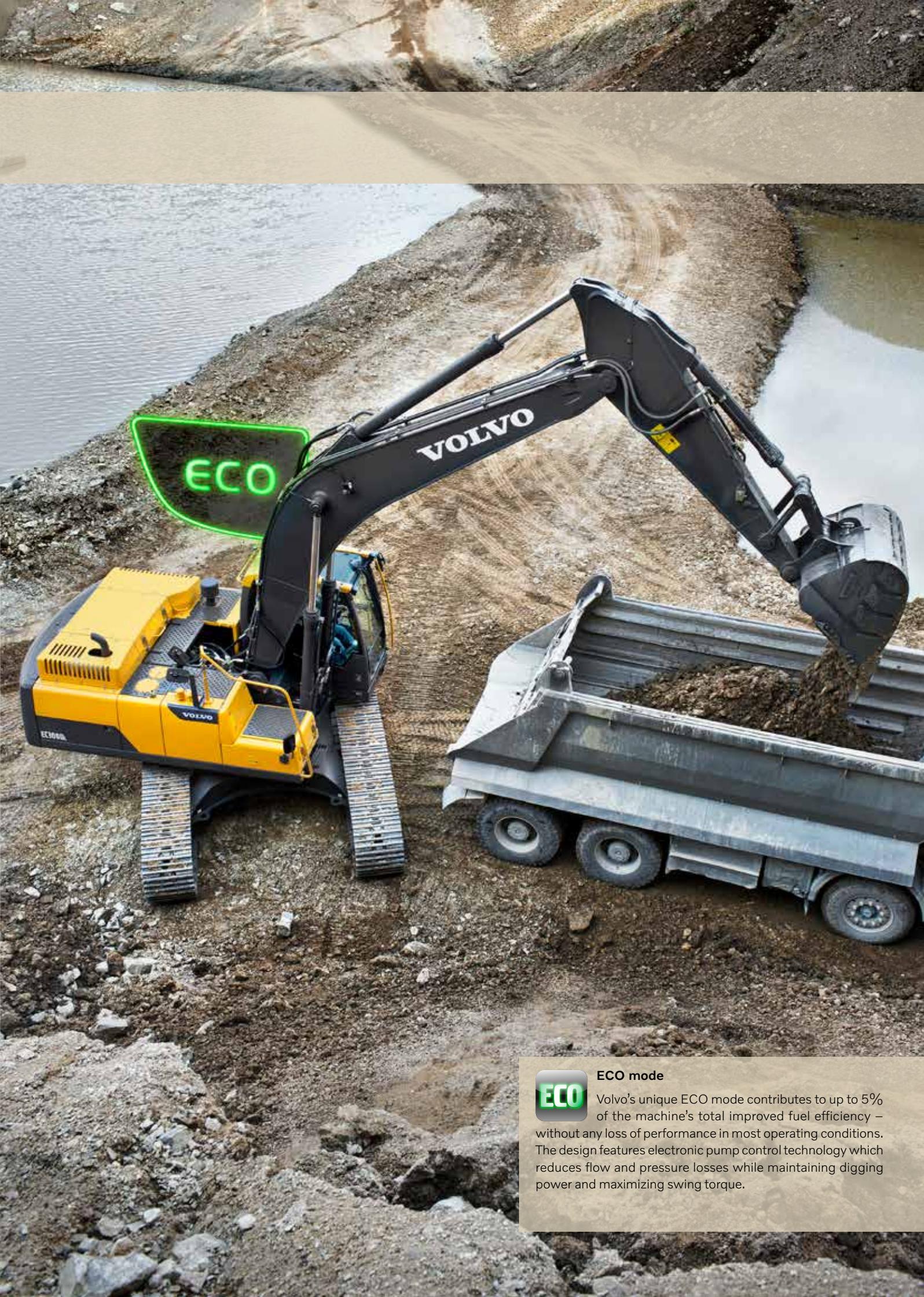
## Fuel consumption display

A new gauge bar on the I-ECU measures instantaneous fuel consumption while average fuel consumption is displayed numerically per hour. This allows you to monitor fuel usage on different job sites and applications.



## Work modes

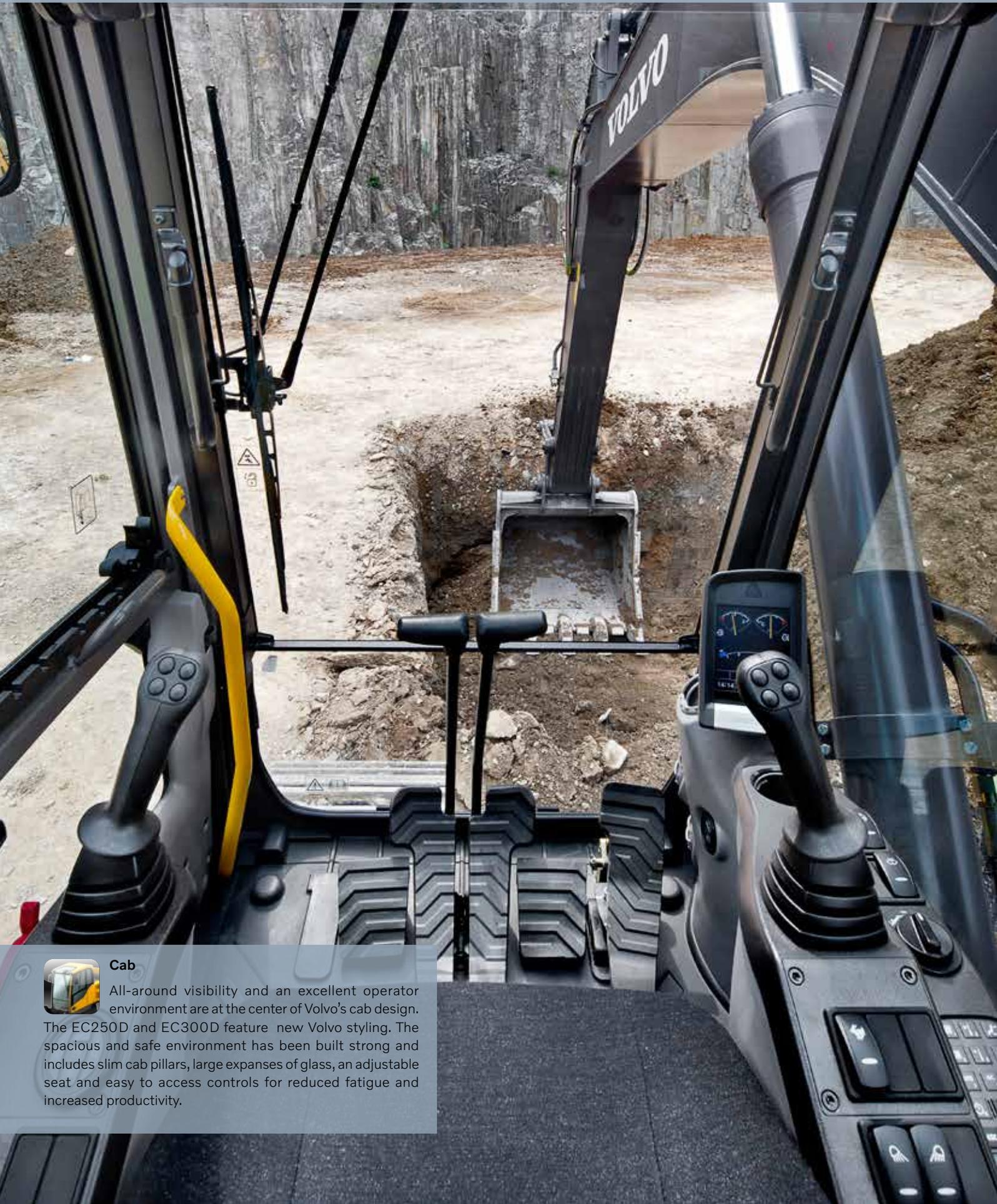
Volvo's unique, integrated work mode system now includes the G4 mode for optimum fuel efficiency and machine performance. Operators can choose the best work mode to suit the task at hand – simply select from I (Idle), F (Fine), G (General), H (Heavy) and P (Power max) mode.



#### ECO mode

Volvo's unique ECO mode contributes to up to 5% of the machine's total improved 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 maximizing swing torque.

# THE VOLVO EXPERIENCE.



## Cab

All-around visibility and an excellent operator environment are at the center of Volvo's cab design. The EC250D and EC300D feature new Volvo styling. The spacious and safe environment has been built strong and includes slim cab pillars, large expanses of glass, an adjustable seat and easy to access controls for reduced fatigue and increased productivity.

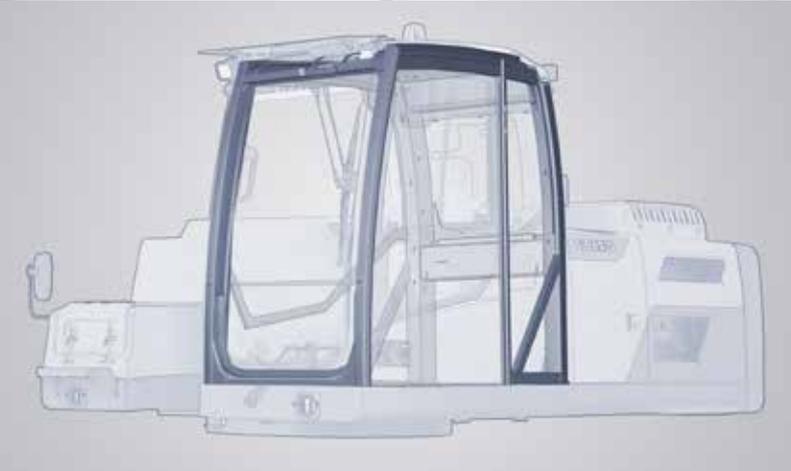
At Volvo we know that when operators are comfortable they experience less fatigue and work more productively. That's why the new, modern styling of the D-series cab provides superior visibility, a safe and spacious working environment and easy to access controls – right where you'd want them. Trust Volvo to think of everything and increase your productivity.

#### I-ECU monitor

The new, color LCD monitor displays machine status information including fuel consumption details and service interval alerts. The large, anti-glare, tiltable screen and conveniently placed navigation controls facilitate easy operation and high productivity.

#### Climate control system

Operators can set their ideal temperature with Volvo's powerful climate control system which is integrated into the I-ECU. Industry-leading air circulation and defrosting is delivered quickly via 14 well-spaced vents for increased comfort and productivity.



#### ROPS

Volvo recommends an optional Roll Over Protective Structure (ROPS) certified cab when working in challenging applications. This provides increased operator safety in the unlikely event of machine roll over.

#### Rearview camera

The optional rearview camera is mounted on the counterweight and reduces the blind spot behind the machine for increased safety. The image projects through the colour I-ECU monitor in the cab – avoiding the need for a second screen.

# STRAIGHTFORWARD SERVICING.

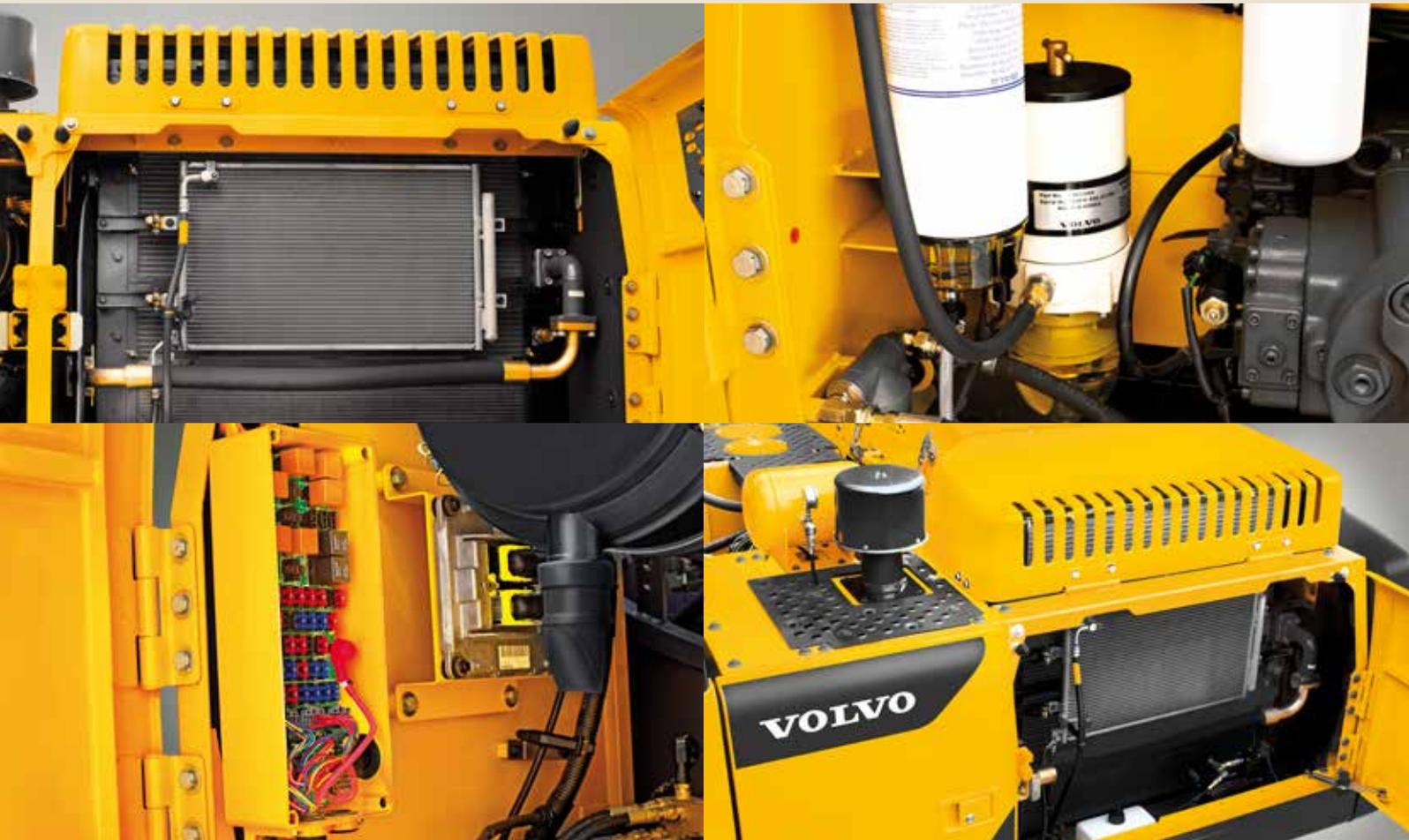
With built in serviceability, the EC250D and EC300D help you to get the most out of each working day. Volvo engineers have designed these machines to make maintenance easy – with safe and easy access to centralized filters and grouped greasing points.

## 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.

## Extra water separator

An additional water separator is available to further prevent water from entering the engine and impurities from contaminating the fuel. This feature provides increased water separation and filtration capacity for extra durability and reliability.



## Electrical Distribution Box

The fully-sealed Electrical Distribution Box contains all fuses and relays – inside the box cover these are identified on a map. The Volvo design protects against dirt and moisture for more machine uptime. It is accessible from ground level for easy service access.

## Air compressor

Particularly useful when working in dusty environments, this feature provides an air nozzle to clean inside the cab, as well as other areas, for operator comfort and easy maintenance.



#### Service access

Large doors and engine hood – which can be fully opened – provide easy service access to components. Centralized filters and greasing points allow regular checks to be done faster for maximum machine uptime and productivity. Durable, steel anti-slip plates ensure safe access for maintenance in more weather conditions and over time.

# 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.



# 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.

## INTERFACES



### S1 and S2 quick couplers

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.

## 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.



### Fixed ditching bucket

Ideal for ditch cleaning, grading, contouring, landscaping, backfilling and removing soft materials.



### Tiltable ditching bucket

This bucket can be tilted 45° to each side making it ideal for use on slopes. It can be used for ditch cleaning, grading, contouring, landscaping, backfilling and removing soft materials.



### Wear parts

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

## HYDRAULIC BREAKERS



### Breaker package

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.

# FULL OF QUALITY FEATURES.



## Customer solutions

Volvo provides the right solutions throughout the entire life cycle of your machine to lower total cost of ownership

## New work modes

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



## Increased power

Benefit from increased power, digging force and faster cycle times for more productivity.

## Electro-hydraulic system

New electro-hydraulic system and MCV use intelligent technology to control on-demand flow for improved performance and efficiency.



## Service access

Large doors and engine hood provide easy service access. Centralized filters and greasing points allow regular checks to be done faster.

## Boom float

This option enables the boom to 'float' over the ground for easy controllability in grading and breaker operations.



## New D-series styling

The EC250D and EC300D boast new, modern D-series styling consistent with Volvo's product family.



#### Improved structure

The boom and arm have been reinforced in critical areas to handle the increased working power of these machines.

#### New I-ECU

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



#### Cab design

All-around visibility, safety, comfort and easy to access controls are at the center of Volvo's operator environment.

#### Engine D7

Premium Volvo D7 diesel engine built with proven, advanced technology for high performance and low fuel consumption.

#### Optional track guard

When working in harsh environments, heavy-duty, bolt-on, full track roller guards protect the bottom rollers and links from debris.



#### ECO mode

Volvo's unique ECO mode contributes to up to 5% of the machine's total improved fuel efficiency without any loss of performance.

# SPECIFICATIONS.

		<b>EC250D</b>	<b>EC300D</b>
Operating weight	kg	24 600 - 28 000	27 700 - 33 100
Gross power	kW	138	170
... at engine speed	r/min	1 800	1 800
Bucket capacity	m <sup>3</sup>	0.48 - 1.85	0.52 - 2.02
Lifting capacity, along undercarriage	kg	9 630	11 020
... at reach / height	m	6.0 / 1.5	6.0 / 1.5
Max. digging reach	mm	10 260	10 720
Max. digging depth	mm	6 980	7 350
Breakout force, SAE J1179 (Normal)	kN	152	168
Breakout force, SAE J1179 (Boost)	kN	166	182
Tear out force, SAE J1179 (Normal)	kN	115	132
Tear out force, SAE J1179 (Boost)	kN	125	143
Overall width	mm	3 190	3 190
Tail swing radius	mm	3 070	3 120

Based on machine configuration: Boom 6.0m/19'8"; Arm 2.97m/9'9"; Shoe 600mm/24"; CWT 4 950kg/10,910lb

**VOLVO**

**Volvo Construction Equipment**

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