### **VOLVO EXCAVATOR**

# EC700CL

68,3 - 70,6 t, 430 hp



MORE CARE. BUILT IN.



# ALL WORK. ALL THE TIME.

### [MORE PROFIT.]

- Powerful Volvo V-ACT engine: efficiently moves more tons per hour.
- · Industry-leading fuel efficiency.
- The digging reach, depth and capacity to stretch your productivity further.
- Advanced hydraulic system is well matched for efficient, smooth control.
- Excellent lifting capacity to pull out of the pile with no hesitation.
- Volvo quick fit: easy attachment change out for greater versatility.

### [MORE SAFETY.]

- The new-design Volvo Care Cab, with operator protective structure provides security.
- Anti-slip steps and platforms
  with punched steel plates for superior
  grip even when wet or icy.
- Low engine emission levels and low noise.
- Superior balance and stability for peace of mind in any terrain.
- Lead-free exterior paint is in harmony with the environment.





# **VOLVO – A PARTNER TO TRUST.**

Big. Size alone won't get the job done. You have to back it up with production - every day. When the job is big, look to the excavator that does it all bigger, faster and stronger. The 70-ton Volvo EC700C will make you think it's in the 80-ton class. That's because it's built like it. Get to work in the machine that will be your money-making partner for a long time.

#### Volvo: your global, local partner

- Complete solutions since 1927.
- · Built on the core values of quality, safety and environmental care.
- · Construction equipment, commercial transport, buses, trucks and more.
- · Global expertise: development of engines with leading fuel efficiency.

#### Top of its class

- The 70-ton excavator with key features found in the 80-ton class.
- Perfectly matched for quick, 40-ton articulated hauler loading - in four to six passes.
- · Optimized operations by electronic control - balancing available engine and hydraulic power to conditions.

#### Big on production

- Tear away more material faster and easier.
- · Fast cycles mean more tons moved on every shift.
- · Stout stability from wide-gauge tracks and heavy-duty counterweight.

#### Comfortably work longer

- Maximum performance you need with the efficiency, comfort and safety you expect from Volvo.
- · Climate-controlled cab keeps you fresh, alert and focused - longer.
- · Well-placed instruments and clear, all-around visibility.

#### Built to work for you

- · Flexibility to handle a wide range of materials in a wide range of applications.
- Choose the work tools, boom/arm configuration and track shoes for your work.
- The leader on the jobsite: production trenching, mass excavation, quarry loading, rock-face stripping, mining, high-demand earthmoving, materialloading jobs and more.





Reinforced boom/arm handles all the jobs.

Intelligent command means greater profits

Well-positioned monitor and controls.



### **VOLVO'S ENGINE LEADERSHIP SPANS LAND, SEA, SKY AND SPACE**

As the world's largest manufacturer of 9-to18-liter diesel engines, Volvo has unmatched expertise designing power systems that move the world. Volvo engines for Volvo Construction Equipment, Volvo

Aero, Volvo Buses, Volvo Penta and Volvo Trucks define productivity and fuel economy. Our performance has been honed on land, over the sea, across the sky and into space. Leading research and development

keeps all Volvo Group products at the forefront of productivity. So when we say Volvo engines are tested — and proven — you can believe it. Trust in it. It's the real advantage of Volvo Power.



# **BUILT TO LEAVE NO WORK BEHIND.**

You might not have to move mountains – but it's nice to know you can. The Volvo EC700C has all the power you need, plus perfectly harmonized hydraulics to make the most difficult material quickly go wherever you want. Mass excavation. Production trenching. Rock-face stripping. Mine loading. The list goes on and on. Just like the Volvo EC700C.

#### Quality for the long haul

- Built with quality through and through – from boom to counterweight.
- Loaded with proven, extra-duty components.
- Main pump, slew motor, bearing/track rollers and other key components live up to 80-ton class standards.
- Larger-diameter slew bearing provides smooth action and dependable, long life.

#### A reinforced force to behold

- Extra-duty undercarriage provides solid footing.
- Wide track gauge and an extra-heavy counterweight.
- Reinforced under-cover protects the high tensile-strength steel undercarriage and superstructure.
- Robotically-welded frame stands up to brutal stresses.
- Boom and arm is robotically welded and engineered for durability.

#### Power to tear through the work

- Powerful Volvo engine delivers high torque even at low RPMs.
- Class-leading power: 316 kW (430 hp).
- Harmonized engine and hydraulics for smooth, responsive digging and lifting.
- High breakout forces, crowding forces and slew speed.
- Quicker cycle times. More tons loaded. Faster job completion.







# WHERE YOU WANT TO BE - ALL DAY LONG.

Volvo values the environment. Yours and ours. The Volvo EC700C is proof. The rock-solid exterior features a comfortable interior that helps you share the fatigue-free, work-all-day feeling your machine has. Safety and care is also covered inside and out. For you. For those working around you. For those living around you.

#### Your comfort zone

- Adjustable seat puts any size operator at ease.
- Ergonomic, low-effort controls/levers put all functions easily within reach.
- High-capacity climate control system: comfortable in all weather.
- Fine-particle air filtration: keeps dust away from the operator and electronics.

#### Volvo views safety as a priority

- Clear, all-around visibility from expansive glass and a thin frontwindow crossbar.
- Cab entry and exit is easier from wide access steps and sturdy hand rails.
- Sure grip step below the fuel port helps keep you anchored when refueling.
- Long, wide-gauge tracks, an extraduty undercarriage and heavy counterweight provide sure-footed stability.

#### **Environmental care**

- Volvo Advanced Combustion Technology (V-ACT) engine provides low emissions.
- Robust cab suspension mounts suppress noise and dampen vibration.





Greater floor space with ergonomic pedals.



 Industry's highest heating/cooling capacity with 14 vents.



Safe, anti-slip steps and platforms.



# INTELLIGENT DESIGN. SMART CHOICE.

Hard at work. Easy to keep running. Volvo dealer support built in around you. That is the Volvo EC700C way. You have less to worry about. Just the job in your sight and the profits in your pocket. It's the smart way to work. Do a quick check. Close the door. Turn the key and go to it.

#### Service your uptime

- Punched-plate, anti-slip walkways make machine checks safe and easy.
- Filters and components are conveniently located for quick replacement.
- Plenty of space and access to major components such as the main pump.
- · In-cab diagnostic monitoring.
- Micro-particle filtration keeps the engine, hydraulics and electronics free from contaminants.

### Your Volvo machine. Your Volvo dealer. The support you need:

#### VCADS at your service

- Optional computerized monitoring and diagnostics program.
- The perfect tool for the service technician.
- Makes troubleshooting diagnosis quick and accurate.

#### MATRIS gives you a full report

- Detailed operating history analysis, utilization and efficiency.
- Turns the data captured inside the machine's computer into easy-to-use graphs and reports.
- Check operating techniques, reduce maintenance costs and increase service life.

#### PROSIS makes parts ordering faster

- CD-ROM application makes it quick and easy for your dealer to order all your parts.
- Your dealer helps you find the right part and place your order to get you up and running fast.







# IT'S YOUR WORK. IT'S YOUR CHOICE.

Make your Volvo Excavator just right for you and your work. To customize your excavator with other optional equipment features to suit your application, contact your local Volvo dealer.

#### **Hydraulic kits**

A wide variety of hydraulic kits is available for various boom and arm combinations. Each kit maximizes performance according to the machine's boom and arm length/shape. Get the most out of rotating/tilting attachments, crushers and hammers. Choose between 1 or 2 pump flow for best performance.

#### Diesel-driven engine coolant heater

The diesel-driven engine coolant heater aids low temperature starting, while simultaneously warming the cab. Heating time duration can be adjusted, set and programmed in advance to engage at a specific date and time.

#### FOG and FOPS cab protection

For added safety and protection, FOG (Falling Object Guard) and FOPS (Falling Object Protective Structure) certified cabs provide peace-of-mind for tough conditions such as quarries and demolition. The front guard of the FOG unit is tiltable and supported by a gas strut for easy front window cleaning.

#### **Operator seats**

Volvo offers a wide variety of ergonomic operator seats designed specifically for comfort and protection. All seats, from various adjustable models to the most advanced air-suspension models, provide excellent support and are individually adjustable to suit operator preferences.

#### Straight travel pedal

A pedal located by the left foot rest operates both travel motors at the same time, providing convenience when traveling and efficient work control in applications such as pipe laying.

#### Full-length derailing shield

Keeps the track chain straight in uneven terrain, such as slopes and blasted rock – helping to avoid wear and extend life. The track chain is the most expensive wear part to replace, meaning the full-length derailing shield helps increase customer profit through lower repair costs.

#### Rear view camera

For improved safety on the jobsite, the manually-operated camera provides a clear rear view when reverse travel is selected or to the right hand side of the superstructure when the slew function is activated. A clear display is visible on the wide screen, color LCD of the IECU (Instrument Electronic Control Unit). The protected camera can be switched manually, using a selection switch on the keypad, to show either rear or side view.

### Wrist control joysticks - proportional control

Low-effort, wrist control joysticks provide smooth, precision control for increased comfort, efficiency and production. Wrist control joysticks with proportional control switches are also available.

#### CareTrack

GPS monitoring program that works with the machine's diagnostic system. Allows the owner and dealer to remotely track usage, productivity, fuel consumption and more. Maximizes uptime through important service reminders. Also monitors geographic machine location and can even prevent unauthorized use.

#### Hydraulic quick fit

A Volvo hydraulic quick fit makes changing attachments quick and easy – all from the comfort and safety of the cab. Different Volvo quick fit types are available to fit new and existing customers' buckets/ attachments.



# **VOLVO OPTIONAL EQUIPMENT**



















Hydraulic kits

Diesel-driven engine coolant heater

FOG and FOPS cab protection

Operator seats
Straight travel pedal
Full-length derailing shield

Rear view camera

Wrist control joysticks proportional control

CareTrack

## **SPECIFICATIONS**

#### Engine

The 4-stroke Volvo diesel engine with water cooling has been specifically developed for excavator use to deliver low emissions, good fuel efficiency, long service life and superior performance. The EU Stage IIIA compliant engine uses turbocharged air-to-air intercooling and direct injection electronic engine controls. The automatic idling system reduces the engine speed to idle when no machine functions are activated, resulting in lower fuel consumption and lower cab noise levels.

| Engine                     | Volvo D16E EAE3      |
|----------------------------|----------------------|
| Max. power, at             | 30 r/s (1 800 r/min) |
| Net (ISO 9249, SAE J1349)  | 316 kW (430 hp)      |
| Gross (SAE J1995)          | 346 kW (470 hp)      |
| Max. torque at 1 350 r/min | 2 250 Nm             |
| No. of cylinders           | 6                    |
| Displacement               | 16,1 I               |
| Bore                       | 144 mm               |
| Stroke                     | 165 mm               |
|                            |                      |

#### **Electrical system**

High-capacity electrical system that is well protected. Waterproof double-lock harness plugs are used to secure corrosion-free connections. The main relays and solenoid valves are shielded to prevent damage. The master switch is standard.

Contronics provides advanced monitoring of machine functions and important diagnostic information.

| Voltage          | 24 V        |
|------------------|-------------|
| Batteries        | 2 x 12 V    |
| Battery capacity | 225 Ah      |
| Alternator       | 28 V / 80 A |

#### Service refill capacities

| Fuel tank               | 840 I    |
|-------------------------|----------|
| Hydraulic system, total | 655 I    |
| Hydraulic tank          | 350 I    |
| Engine oil              | 52 I     |
| Engine coolant          | 65 I     |
| Slew reduction unit     | 2 x 6 l  |
| Travel reduction unit   | 2 x 20 l |
|                         |          |

#### Slew system

The slew system uses an axial piston motor, driving a planetary gearbox for maximum torque. An automatic holding brake and anti-rebound valve are standard.

| Max. slew speed  | 6,7 r/min |
|------------------|-----------|
| Max. slew torque | 23,1 kNm  |

#### Drive

Each track is powered by an automatic two-speed shift travel motor. Track brakes are multi-disc, spring-applied and hydraulically released. The travel motor, brake and planetary gears are well protected within the track frame.

| Max. drawbar pull | 453 kN       |  |
|-------------------|--------------|--|
| Max. travel speed | 4,6/3,0 km/h |  |
| Gradeability      | 35°          |  |

#### Undercarriage

The undercarriage has a robust X-shaped frame. Greased and sealed track chains are standard.

| Track pads     | 2 x 48         |
|----------------|----------------|
| Link pitch     | 260,4 mm       |
| Shoe width,    |                |
| double grouser | 650/750/900 mm |
| Bottom rollers | 2 x 8          |
| Top rollers    | 2 x 3          |

#### **Hydraulic system**

The hydraulic system, also known as the "Integrated work mode control" is designed for high-productivity, high-digging capacity, high-manoevering precision and excellent fuel economy. The summation system, boom, arm and slew priority along with boom, arm and bucket regeneration provides optimum performance.

The following important functions are included in the system:

**Summation system:** Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.

**Boom priority:** Gives priority to the boom operation for faster raising when loading or performing deep excavations.

**Arm priority:** Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.

**Slew priority:** Gives priority to slew functions for faster simultaneous operations.

Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.

**Power boost:** All digging and lifting forces are increased.

**Holding valves:** Boom and arm holding valves prevent the digging equipment from creeping.

#### Main pump:

Type:  $2 \times variable$  displacement axial piston pumps Maximum flow:  $2 \times 436 \text{ l/min}$ 

#### Pilot pump:

Type: Gear pump Maximum flow: 27,4 I/min

#### Hydraulic motors:

Travel: Variable displacement axial piston motor with mechanical brake

Slew: Fixed displacement piston motor with mechanical brake

#### Relief valve setting:

| Implement  | 31,4/34,3 MPa |
|--|---------------|
| Travel circuit · · · · · · · · · · · · · · · · · · · | 34,3 MPa      |
| Slew circuit · · · · · · · · · · · · · · · · · · ·   | 25,5 MPa      |
| Pilot circuit · · · · · · · · · · · · · · · · · · ·  | 3.9 MPa       |

#### Hydraulic cylinders:

| Boom · · · · · 2                   |  |
|------------------------------------|--|
| Bore x Stroke····· ø190 x 1 790 mm |  |
| Arm · · · · · 1                    |  |
| Bore x Stroke····· ø215 x 2 070 mm |  |
| Bucket · · · · · 1                 |  |
| Bore x Stroke····· ø190 x 1 450 mm |  |
| ME Bucket · · · · · 1              |  |
| Bore x Stroke····· ø200 x 1 450 mm |  |

#### Cab

The operator's cab has easy access via a wide door opening. The cab is supported on hydraulic dampening mounts to reduce shock and vibration levels. These along with sound absorbing lining provide low noise levels. The cab has excellent allround visibility. The front windshield can easily slide up into the ceiling, and the lower front glass can be removed and stored in the side door.

Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically controlled fan. The air is distributed throughout the cab from 14 vents. Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt for the operator's comfort and safety.

#### Sound Level:

#### **Ground pressure**

• EC700CL with 6,6 m boom, 2,9 m arm, 3 730 kg bucket, 11 300 kg counterweight

| Description    | Shoe width | Operating weight | Ground pressure | Overall width |
|----------------|------------|------------------|-----------------|---------------|
| Double grouser | 650 mm     | 69 800 kg        | 101,5 kPa       | 4 095 mm      |
|                | 750 mm     | 70 500 kg        | 88,9 kPa        | 4 100 mm      |
|                | 900 mm     | 71 700 kg        | 75,3 kPa        | 4 250 mm      |

• EC700CL with 7,7 m boom, 3,55 m arm, 2 800 kg bucket, 11 300 kg counterweight

| Description    | Shoe width | Operating weight | Ground pressure | Overall width |
|----------------|------------|------------------|-----------------|---------------|
| Double grouser | 650 mm     | 69 300 kg        | 100,8 kPa       | 4 095 mm      |
|                | 750 mm     | 70 000 kg        | 88,2 kPa        | 4 100 mm      |
|                | 900 mm     | 71 000 kg        | 74,6 kPa        | 4 250 mm      |

#### Max. permitted buckets

- Note: 1. Bucket size based on ISO 7451, heaped material with a 1:1 angle of repose.

  2. "Max. permitted sizes" are for reference only and are not necessarily available from the factory.

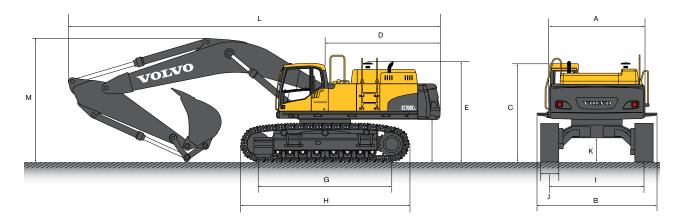
  - 2. "Max. permitted sizes" are for reference only and are
    3. Bucket widths are less than bucket's tip radius.
    4. LU: Light Utility
    5. GP: General Purpose, Excavation, Trenching
    6. HD: Heavy Duty, Heavy Excavation, Heavy Trenching
    7. RL: Rock Loading
- EC700CL with 650 mm shoe, 11 300 kg counterweight

| Description                    | Max. bucket        | 6,6 m boom 7,7 m boom |               |               |               |
|--------------------------------|--------------------|-----------------------|---------------|---------------|---------------|
| Description                    | volume /<br>weight | 2,9 m arm             | 2,9 m arm     | 3,55 m arm    | 4,2 m arm     |
| LU bucket 1,2 t/m³             | I / kg             | 6 600 / 4 250         | 5 300 / 3 400 | 4 925 / 3 200 | 4 450 / 2 850 |
| LU bucket 1,5 t/m³             | I / kg             | 5 675 / 3 650         | 4 550 / 2 950 | 4 225 / 2 700 | 3 825 / 2 450 |
| GP bucket 1,3 t/m³             | I / kg             | 5 675 / 5 150         | 4 550 / 3 850 | 4 225 / 3 600 | 3 825 / 3 250 |
| GP bucket 1,5 t/m³             | I / kg             | 5 200 / 4 400         | 4 175 / 3 500 | 3 875 / 3 250 | 3 500 / 2 950 |
| GP bucket 1,8 t/m³             | I / kg             | 4 600 / 3 900         | 3 700 / 3 100 | 3 425 / 2 900 | 3 100 / 2 600 |
| HD bucket 1,8 t/m³             | I / kg             | 4 350 / 4 350         | 3 500 / 3 500 | 3 250 / 3 250 | 2 925 / 2 900 |
| HD bucket 2,0 t/m³             | I / kg             | 4 075 / 4 050         | 3 275 / 3 250 | 3 025 / 3 000 | 2 725 / 2 700 |
| RL bucket 1,8 t/m <sup>3</sup> | I / kg             | 3 925 / 5 100         | 3 150 / 4 050 | 2 925 / 3 800 | 2 650 / 3 400 |
| RL bucket 2,0 t/m³             | I / kg             | 3 700 / 4 800         | 2 975 / 3 850 | 2 750 / 3 550 | 2 475 / 3 200 |
| Max. permitted bucket width    | mm                 | 2 100                 | 2 000         | 2 000         | 2 000         |

 $\bullet$  EC700CL with 900 mm shoe, 11 300 kg counterweight

| Description                    | Max. bucket | 7,7 m boom    |                      |               |  |
|--------------------------------|-------------|---------------|----------------------|---------------|--|
| Description                    | weight      | 2,9 m arm     | 2,9 m arm 3,55 m arm |               |  |
| LU bucket 1,2 t/m³             | I / kg      | 5 875 / 3 050 | 5 450 / 2 950        | 4 900 / 2 600 |  |
| LU bucket 1,5 t/m <sup>3</sup> | I / kg      | 5 050 / 2 550 | 4 675 / 2 450        | 4 225 / 2 150 |  |
| GP bucket 1,3 t/m <sup>3</sup> | I / kg      | 5 050 / 3 550 | 4 675 / 3 400        | 4 225 / 3 000 |  |
| GP bucket 1,5 t/m³             | I / kg      | 4 625 / 3 200 | 4 275 / 3 050        | 3 875 / 2 650 |  |
| GP bucket 1,8 t/m <sup>3</sup> | I / kg      | 4 100 / 2 750 | 3 800 / 2 650        | 3 425 / 2 300 |  |
| HD bucket 1,8 t/m <sup>3</sup> | I / kg      | 3 875 / 3 150 | 3 600 / 3 000        | 3 250 / 2 600 |  |
| HD bucket 2,0 t/m³             | I / kg      | 3 625 / 2 850 | 3 350 / 2 750        | 3 025 / 2 400 |  |
| RL bucket 1,8 t/m <sup>3</sup> | I / kg      | 3 500 / 3 800 | 3 250 / 3 600        | 2 925 / 3 200 |  |
| RL bucket 2,0 t/m <sup>3</sup> | I / kg      | 3 275 / 3 550 | 3 050 / 3 350        | 2 750 / 2 950 |  |
| Max. permitted bucket width    | mm          | 2 000         | 2 000                | 2 000         |  |

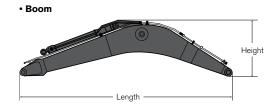
#### **Dimensions**



#### $\bullet$ **EC700CL** with 650 mm shoe, 11 300 kg counterweight

|                                     |    | 6,6 m boom |           | 7,7 m boom |           |
|-------------------------------------|----|------------|-----------|------------|-----------|
| Description                         |    | 2,9 m arm  | 2,9 m arm | 3,55 m arm | 4,2 m arm |
| A. Overall width of upper structure | mm | 3 420      | 3 420     | 3 420      | 3 420     |
| B. Overall width                    | mm | 4 286      | 4 286     | 4 286      | 4 286     |
| C. Overall height of cab            | mm | 3 520      | 3 520     | 3 520      | 3 520     |
| D. Tail slew radius                 | mm | 4 090      | 4 090     | 4 090      | 4 090     |
| E. Overall height of engine hood    | mm | 3 590      | 3 590     | 3 590      | 3 590     |
| F. Counterweight clearance *        | mm | 1 507      | 1 507     | 1 507      | 1 507     |
| G. Tumbler length                   | mm | 4 750      | 4 750     | 4 750      | 4 750     |
| H. Track length                     | mm | 5 990      | 5 990     | 5 990      | 5 990     |
| I. Track gauge (extended)           | mm | 3 350      | 3 350     | 3 350      | 3 350     |
| Track gauge (retracted)             | mm | 2 750      | 2 750     | 2 750      | 2 750     |
| J. Shoe width                       | mm | 650        | 650       | 650        | 650       |
| K. Min. ground clearance *          | mm | 858        | 858       | 858        | 858       |
| L. Overall length                   | mm | 12 200     | 13 320    | 13 220     | 13 170    |
| M. Overall height of boom           | mm | 4 855      | 4 660     | 4 600      | 4 950     |

<sup>\*</sup> Without shoe grouser

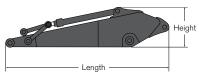


| Description |    | 6,6 m | 7,7 m |
|-------------|----|-------|-------|
| Length      | mm | 6 890 | 8 020 |
| Height      | mm | 2 530 | 1 970 |
| Width       | mm | 1 110 | 1 110 |
| Weight      | kg | 6 550 | 6 900 |

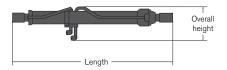
<sup>\*</sup> Includes arm cylinder, piping and pin

#### **Dimensions**

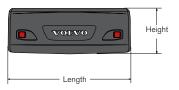




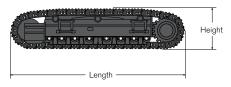
#### • Cylinder



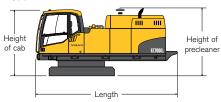
#### Counterweight



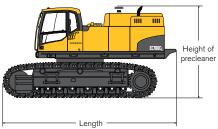
#### • Shoes



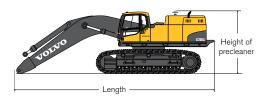
#### • Cab



#### • Cab with shoes



#### • Cab with shoes and boom



| Description |    | 2,9 m | 3,55 m | 4,2 m |
|-------------|----|-------|--------|-------|
| Length      | mm | 4 260 | 4 940  | 5 590 |
| Height      | mm | 1 530 | 1 390  | 1 390 |
| Width       | mm | 740   | 740    | 740   |
| Weight      | kg | 3 510 | 3 670  | 3 900 |

 $<sup>^{\</sup>star}$  Includes bucket cylinder, linkage and pin

| Length   | Height | Width  | Weight                       |
|----------|--------|--------|------------------------------|
| 2 765 mm | 560 mm | 370 mm | 540 kg x 2 set =<br>1 080 kg |

| Length   | Height   | Width  | Weight    |  |  |
|----------|----------|--------|-----------|--|--|
| 3 420 mm | 1 280 mm | 800 mm | 11 400 kg |  |  |

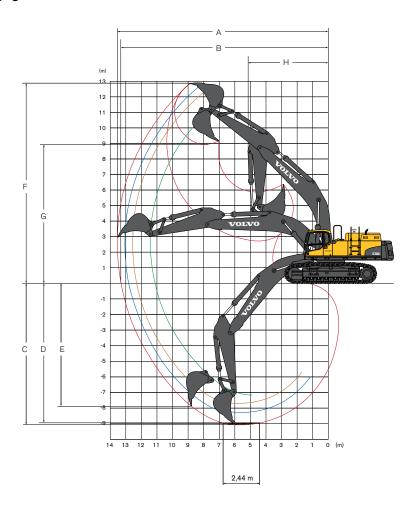
| Shoe width | Length   | Height   | Overall width | Weight / unit |
|------------|----------|----------|---------------|---------------|
| 650 mm     | 5 990 mm | 1 375 mm | 700 mm        | 10 400 kg     |
| 750 mm     | 5 990 mm | 1 375 mm | 750 mm        | 10 750 kg     |
| 900 mm     | 5 990 mm | 1 375 mm | 900 mm        | 11 250 kg     |

| Length   | Height of cab | Height of precleaner | Width    | Weight    |  |
|----------|---------------|----------------------|----------|-----------|--|
| 5 500 mm | 2 655 mm      | 2 735 mm             | 3 430 mm | 21 700 kg |  |

| Shoe width | Length   | Length Height of precleaner |          | Weight    |
|------------|----------|-----------------------------|----------|-----------|
| 650 mm     | 6 730 mm | 3 590 mm                    | 3 520 mm | 44 500 kg |
| 750 mm     | 6 730 mm | 3 590 mm                    | 3 520 mm | 44 500 kg |
| 900 mm     | 6 730 mm | 3 590 mm                    | 3 520 mm | 44 500 kg |

| Boom  | Shoe<br>width | Length    | Height of precleaner | Overall width (retracted) | Weight    |  |
|-------|---------------|-----------|----------------------|---------------------------|-----------|--|
|       | 650 mm        | 10 140 mm | 3 590 mm             | 3 495 mm                  | 50 550 kg |  |
| 6,6 m | 750 mm        | 10 140 mm | 3 590 mm             | 3 595 mm                  | 51 250 kg |  |
|       | 900 mm        | 10 140 mm | 3 590 mm             | 3 745 mm                  | 52 250 kg |  |
|       | 650 mm        | 11 280 mm | 3 590 mm             | 3 495 mm                  | 50 900 kg |  |
| 7,7 m | 750 mm        | 11 280 mm | 3 590 mm             | 3 595 mm                  | 51 600 kg |  |
|       | 900 mm        | 11 280 mm | 3 590 mm             | 3 745 mm                  | 52 600 kg |  |

#### Working ranges & digging force



#### • EC700CL

| Machine with direct fit bucket       |                               | 6,6 m boom |           | 7,7 m boom |           |
|--------------------------------------|-------------------------------|------------|-----------|------------|-----------|
| machine with ancer in backer         |                               | 2,9 m arm  | 2,9 m arm | 3,55 m arm | 4,2 m arm |
| A. Max. digging reach                | mm                            | 11 500     | 12 600    | 13 170     | 14 780    |
| B. Max. digging reach on ground      | κ. digging reach on ground mm |            | 12 335    | 12 910     | 13 540    |
| C. Max. digging depth mm             |                               | 7 250      | 7 755     | 8 400      | 9 055     |
| D. Max. digging depth (2,44 m level) | mm                            | 7 100      | 7 605     | 8 270      | 8 935     |
| E. Max. vertical wall digging depth  | mm                            | 5 065      | 6 780     | 7 250      | 7 855     |
| F. Max. cutting height               | mm                            | 10 980     | 12 490    | 12 620     | 12 940    |
| G. Max. dumping height mm            |                               | 6 960      | 8 410     | 8 610      | 8 930     |
| H. Min. front slew radius mm         |                               | 5 160      | 5 480     | 5 410      | 5 470     |

| Digging forces with direct                   | t fit buokst                 |      | 6,6 m boom | 6,6 m boom 7,7 m boom |            |           |  |  |  |
|--|------------------------------|------|------------|-----------------------|------------|-----------|--|--|--|
| Digging forces with direct fit bucket        |                              |      | 2,9 m arm  | 2,9 m arm             | 3,55 m arm | 4,2 m arm |  |  |  |
| Bucket radius                                |                              | mm   | 2 215      | 2 150                 | 2 150      | 2 150     |  |  |  |
| Breakout force - bucket (Normal/Power boost) | 1 150 6015 1 201 1 349 / 374 |      | 342 / 374  | 326 / 356             | 326 / 356  | 326 / 356 |  |  |  |
| Tearout force - arm (Normal/Power boost)     | I ISO 6015                   |      | 298 / 326  | 303 / 332 265 / 290   |            | 236 / 258 |  |  |  |
| Rotation angle, bucket                       |                              | deg. | 172        | 173                   | 173        | 173       |  |  |  |

#### Lifting capacity

At the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

#### • EC700CL

| Across undercarriage   | Lifting<br>hook<br>related to  | 4,5  | i m  | 6,0   | ) m   | 7,5  | 5 m   | 9,0   | ) m   | 10,  | 5 m  |   | Max. reach   |   |
|--|--|--|--|---|---|--|---|---|---|--|--|---|--|---|
| Along undercarriage  | ground<br>level  | Ė  | Œ  | Ė   | Œ   | Ė  | <b>(3</b>   | Ė   | <b>(3+</b>  | Ů  | Œ  | Ů   | Œ  | Max.<br>m   |
| Boom 6,6 m ME<br>+<br>Arm 2,9 m ME<br>+<br>Shoe 650 mm<br>+<br>Counterweight 11 300 kg | 10,5 m kg 9 m kg 7,5 m kg 6 m kg 4,5 m kg 1,5 m kg 0 m kg -1,5 m kg -3 m kg -4,5 m kg -6 m kg -7,5 m kg  | *28 900<br>*31 660<br>*35 300<br>*32 850<br>*28 440<br>*20 640 | '28 900<br>'31 660<br>'35 300<br>'32 850<br>'28 440<br>'20 640 | *19 480 *21 940 *24 440 *26 110 *26 450 *25 280 *22 150   | *19 480 *21 940 24 160 23 180 22 650 22 530 *22 150   | *16 950<br>*17 360<br>*18 480<br>*19 740<br>*20 670<br>*20 840<br>*19 800                                  | *16 950<br>*17 360<br>17 970<br>17 310<br>16 740<br>16 320  | *15 500<br>*17 000<br>*17 230   | 13 440<br>13 140<br>12 870  |  |  | *15 090 *14 020 *13 680 *13 820 *14 410 *15 490 *16 950 *16 990 *16 590 *14 760                                       | *15 090 *14 020 *13 680 13 250 12 550 12 440 12 910 14 190 *16 590 *14 760                                   | 6,7<br>7,9<br>8,6<br>9,1<br>9,3<br>9,2<br>8,9<br>8,3<br>7,4<br>6,0                                |
| Boom 7,7 m<br>+<br>Arm 2,9 m<br>+<br>Shoe 650 mm<br>+<br>Counterweight 11 300 kg       | 10,5 m kg 9 m kg 7,5 m kg 6 m kg 4,5 m kg 1,5 m kg 0 m kg -1,5 m kg -3 m kg -4,5 m kg -6 m kg -7,5 m kg  | *26 480<br>*25 020<br>*19 620                                  | *26 480<br>*25 020<br>*19 620                                  | *20 130<br>*22 670<br>*24 740<br>*25 550<br>*25 100<br>*23 610<br>*20 970<br>*16 580            | *20 130<br>*22 670<br>22 530<br>21 720<br>21 410<br>21 420<br>*20 970<br>*16 580                | "15 660<br>"15 940<br>"16 910<br>"18 180<br>"19 350<br>"20 030<br>"19 990<br>"19 070<br>"16 970<br>"12 410 | *15 660<br>*15 940<br>*16 910<br>17 170<br>16 400<br>15 820<br>15 500<br>15 440<br>15 630<br>*12 410  | "14 820<br>"15 040<br>"15 610<br>"16 190<br>"16 520<br>"16 360<br>"15 380                       | 13 660<br>13 430<br>13 020<br>12 600<br>12 250<br>12 040<br>12 030                        |  |  | '16 980<br>'15 490<br>'14 710<br>'14 420<br>'14 230<br>'14 140<br>'14 070<br>'13 960<br>'13 720<br>'13 120<br>'11 670 | *16 980<br>*15 490<br>13 080<br>11 450<br>10 530<br>10 070<br>9 980<br>10 280<br>11 070<br>12 630<br>*11 670 | 6,8<br>8,2<br>9,2<br>9,9<br>10,3<br>10,5<br>10,4<br>10,1<br>9,6<br>8,8<br>7,7                     |
| Boom 7,7 m<br>+<br>Arm 3,55 m<br>+<br>Shoe 650 mm<br>+<br>Counterweight 11 300 kg      | 10,5 m kg 9 m kg 7,5 m kg 6 m kg 4,5 m kg 1,5 m kg 0 m kg -1,5 m kg -3 m kg -4,5 m kg -4,5 m kg  | '27 040<br>'27 750<br>'22 930<br>'15 520                       | *27 040<br>*27 750<br>*22 930<br>*15 520                       | *18 820<br>*21 490<br>*23 900<br>*25 290<br>*25 440<br>*24 470<br>*22 370<br>*18 810<br>*12 510 | "18 820<br>"21 490<br>"23 070<br>"22 020<br>"21 500<br>"21 360<br>"21 510<br>"18 810<br>"12 510 | "14 980<br>"16 020<br>"17 430<br>"18 790<br>"19 750<br>"20 050<br>"19 540<br>"18 010<br>"14 870            | "14 080<br>"14 930<br>"16 020<br>"17 430<br>16 660<br>15 990<br>15 570<br>15 390<br>15 460<br>"14 870 | "13 860<br>"14 310<br>"15 030<br>"15 780<br>"16 310<br>"16 430<br>"15 890<br>"14 250            | *13 860<br>13 650<br>13 200<br>12 730<br>12 320<br>12 040<br>11 930<br>12 040             | *13 500<br>*13 780<br>*13 920<br>*13 650   | 10 290<br>10 050<br>9 840<br>9 710   | "13 050 "11 990 "11 500 "11 370 "11 510 "11 910 "12 600 "13 220 "13 130 "12 830 "12 000 "9 780                        | *13 050 *11 990 *11 500 *10 520 *9 730 *9 320 *9 220 *9 450 *10 060 *11 270 *12 000 *9 780                   | 7,6<br>8,9<br>9,9<br>10,5<br>10,9<br>11,0<br>11,0<br>10,7<br>10,2<br>9,5<br>8,4<br>6,9            |
| Boom 7,7 m + Arm 4,2 m + Shoe 650 mm + Counterweight 11 300 kg                         | 10,5 m kg 9 m kg 7,5 m kg 6 m kg 4,5 m kg 3 m kg 1,5 m kg 0 m kg -1,5 m kg -3 m kg -4,5 m kg   | '19 060<br>'25 980<br>'29 540<br>'25 370<br>'19 090            | *19 060<br>*25 980<br>*29 540<br>*25 370<br>*19 090            | *19 930<br>*22 580<br>*24 430<br>*25 120<br>*24 670<br>*23 120<br>*20 270<br>*15 400            | *19 930<br>*22 580<br>22 080<br>21 330<br>21 020<br>21 040<br>*20 270<br>*15 400                | *14 880<br>*16 370<br>*17 870<br>*19 060<br>*19 660<br>*19 520<br>*18 470<br>*16 160<br>*11 380            | *14 880<br>*16 370<br>16 740<br>15 950<br>15 410<br>15 130<br>15 090<br>15 320<br>*11 380             | *12 710 *12 810 *13 390 *14 200 *15 070 *16 110 *15 910 *14 880 *12 250                         | *12 710 *12 810 *13 390 *13 250 *12 710 *12 230 *11 870 *11 680 *11 960                   | '9 630<br>'12 430<br>'12 790<br>'13 210<br>'13 530<br>'13 560<br>'13 030                       | '9 630<br>10 540<br>10 290<br>9 990<br>9 710<br>9 500<br>9 430                     | "10 430 "9 670 "9 310 "9 200 "9 290 "9 580 "10 080 "10 880 "12 120 "12 030 "11 530 "10 200                            | "10 430<br>"9 670<br>"9 310<br>"9 200<br>8 800<br>8 440<br>8 500<br>8 980<br>9 910<br>"11 530<br>"10 200     | 8,5<br>9,7<br>10,5<br>11,1<br>11,4<br>11,6<br>11,6<br>11,3<br>10,9<br>10,2<br>9,2<br>7,8          |
| Boom 7,7 m<br>+<br>Arm 5,2 m<br>+<br>Shoe 650 mm<br>+<br>Counterweight 11 300 kg       | 10,5 m kg<br>9 m kg<br>7,5 m kg<br>6 m kg<br>4,5 m kg<br>3 m kg<br>1,5 m kg<br>0 m kg<br>-1,5 m kg<br>-3 m kg<br>-4,5 m kg<br>-6 m kg<br>-7,5 m kg | "21 590<br>"25 000<br>"31 530<br>"28 400<br>"23 560<br>"16 070 | "21 590<br>"25 000<br>"31 530<br>"28 400<br>"23 560<br>"16 070 | *20 410<br>*22 850<br>*24 290<br>*24 620<br>*23 870<br>*21 960<br>*18 530<br>*12 560            | *20 410<br>22 470<br>21 360<br>20 760<br>20 550<br>20 670<br>*18 530<br>*12 560                 | *14 690<br>*16 390<br>*17 890<br>*18 910<br>*19 270<br>*18 840<br>*17 440<br>*14 570                       | *14 690<br>*16 390<br>16 100<br>15 370<br>14 900<br>14 700<br>14 750<br>*14 570                       | "11 990<br>"12 920<br>"13 940<br>"14 870<br>"15 510<br>"15 710<br>"15 290<br>"13 930<br>"10 670 | *11 990<br>*12 920<br>12 820<br>12 230<br>11 760<br>11 440<br>11 300<br>11 370<br>*10 670 | "8 810<br>"10 890<br>"11 200<br>"11 720<br>"12 310<br>"12 840<br>"13 160<br>"13 120<br>"12 450 | '8 810<br>'10 890<br>10 710<br>10 370<br>9 990<br>9 630<br>9 330<br>9 130<br>9 090 | "7 670 "7 180 "6 930 "6 850 "6 900 "7 080 "7 420 "7 940 "8 720 "9 910 "10 670 "10 050 "8 370                          | "7 670 "7 180 "6 930 "6 850 "6 900 "7 080 "7 200 "7 300 "7 630 8 280 9 410 "10 050 "8 370                    | 9,8<br>10,8<br>11,6<br>12,1<br>12,4<br>12,6<br>12,5<br>12,3<br>11,9<br>11,3<br>10,4<br>9,2<br>7,5 |

Notes:

- Machine in "Fine Mode-F" (Power Boost) for lifting capacities.
   The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.
   Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
   Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

#### Lifting capacity

At the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

#### • EC700CL

| Across undercarriage   | Lifting<br>hook<br>related to  | 4,5 m  |  | 6,0 m   |  | 7,5 m  |  | 9,0 m  |   | 10,5 m   |   | Max. reach  |   |   |
|--|--|--|--|---|--|--|--|--|---|--|---|---|---|---|
| Along undercarriage  | ground<br>level  | Ė  | <b>(1</b>  | Ė   | <b>(3</b>  | Ů  | <b>(3</b>  | Ė  | <b>(3+</b>  | Ů  | <b>(3</b>   | Ů   | <b>(3+</b>  | Max.<br>m   |
| Boom 6,6 m<br>+<br>Arm 2,9 m without bucket<br>+<br>Shoe 750 mm<br>+<br>Counterweight 11 300 kg  | 10,5 m kg<br>9 m kg<br>7,5 m kg<br>6 m kg<br>4,5 m kg<br>1,5 m kg<br>0 m kg<br>-1,5 m kg<br>-3 m kg<br>-4,5 m kg<br>-6 m kg<br>-7,5 m kg | *28 900<br>*31 660<br>*35 300<br>*32 850<br>*28 440<br>*20 640 | '28 900<br>'31 660<br>'35 300<br>'32 850<br>'28 440<br>'20 640 | *19 480 *21 940 *24 440 *26 110 *26 450 *25 280 *22 150   | *19 480 *21 940 24 380 23 410 22 880 22 760 *22 150  | '16 950<br>'17 360<br>'18 480<br>'19 740<br>'20 670<br>'20 840<br>'19 800                                  | *16 950<br>*17 360<br>18 140<br>17 470<br>16 910<br>16 560<br>16 490                                 | *15 500<br>*17 000<br>*17 230  | 13 570<br>13 280<br>13 000  |  |   | "15 090 "14 020 "13 680 "13 820 "14 410 "15 490 "16 950 "16 990 "16 590 "14 760                                       | *15 090 *14 020 *13 680 13 380 12 680 12 570 13 040 14 340 *16 590 *14 760                                    | 6,7<br>7,8<br>8,6<br>9,1<br>9,3<br>9,2<br>8,9<br>8,3<br>7,4<br>6,0                                |
| Boom 7,7 m + Arm 2,9 m without bucket + Shoe 750 mm + Counterweight 11 300 kg                    | 10,5 m kg<br>9 m kg<br>7,5 m kg<br>6 m kg<br>4,5 m kg<br>1,5 m kg<br>0 m kg<br>-1,5 m kg<br>-3 m kg<br>-4,5 m kg<br>-4,5 m kg            | *26 480<br>*25 020<br>*19 620                                  | *26 480<br>*25 020<br>*19 620                                  | *20 130<br>*22 670<br>*24 740<br>*25 550<br>*25 100<br>*23 610<br>*20 970<br>*16 580            | '20 130<br>'22 670<br>22 760<br>21 950<br>21 640<br>21 650<br>'20 970<br>'16 580           | '15 660<br>'15 940<br>'16 910<br>'18 180<br>'19 350<br>'20 030<br>'19 990<br>'19 070<br>'16 970<br>'12 410 | '15 660<br>'15 940<br>'16 910<br>17 330<br>16 560<br>15 990<br>15 670<br>15 600<br>15 790<br>'12 410 | "14 820<br>"15 040<br>"15 610<br>"16 190<br>"16 520<br>"16 360<br>"15 380                                  | 13 890<br>13 560<br>13 160<br>12 730<br>12 380<br>12 170<br>12 160            |  |   | 116 980<br>115 490<br>114 710<br>114 420<br>114 230<br>114 140<br>114 070<br>113 960<br>113 720<br>113 120<br>111 670 | '16 980<br>'15 490<br>13 200<br>11 570<br>10 640<br>10 180<br>10 090<br>10 400<br>11 190<br>12 760<br>'11 670 | 6,8<br>8,2<br>9,2<br>9,9<br>10,3<br>10,4<br>10,4<br>10,1<br>9,6<br>8,8<br>7,7                     |
| Boom 7,7 m<br>+<br>Arm 3,55 m without bucket<br>+<br>Shoe 750 mm<br>+<br>Counterweight 11 300 kg | 10,5 m kg<br>9 m kg<br>7,5 m kg<br>6 m kg<br>4,5 m kg<br>1,5 m kg<br>0 m kg<br>-1,5 m kg<br>-3 m kg<br>-4,5 m kg<br>-3 m kg              | *27 070<br>*27 790<br>*22 960<br>*15 550                       | *27 070<br>*27 790<br>*22 960<br>*15 550                       | "18 860<br>"21 520<br>"23 930<br>"25 320<br>"25 470<br>"24 500<br>"22 410<br>"18 840<br>"12 550 | "18 860<br>"21 520<br>23 320<br>22 280<br>21 760<br>21 620<br>21 770<br>"18 840<br>"12 550 | 14 120  14 970  16 060  17 470  18 830  19 780  20 080  19 570  18 040  14 910                             | 14 120<br>14 970<br>16 060<br>17 470<br>16 860<br>16 190<br>15 760<br>15 590<br>15 660<br>14 910     | "13 890<br>"14 350<br>"15 070<br>"15 810<br>"16 350<br>"16 470<br>"15 930<br>"14 290                       | '13 860<br>13 810<br>13 370<br>12 890<br>12 480<br>12 200<br>12 200<br>12 210 | "13 540<br>"13 820<br>"13 950<br>"13 680   | 10 430<br>10 190<br>9 980<br>9 850  | 13 080<br>12 030<br>11 540<br>11 550<br>11 950<br>12 640<br>13 260<br>13 170<br>12 860<br>12 030<br>9 820             | '13 080 '12 030 '11 540 10 660 9 860 9 450 9 360 9 590 10 210 11 430 '12 030 '9 820                           | 7,6<br>8,9<br>9,8<br>10,5<br>10,8<br>11,0<br>11,0<br>10,7<br>10,2<br>9,5<br>8,4<br>6,9            |
| Boom 7,7 m<br>+<br>Arm 4,2 m without bucket<br>+<br>Shoe 750 mm<br>+<br>Counterweight 11 300 kg  | 10,5 m kg 9 m kg 7,5 m kg 6 m kg 4,5 m kg 1,5 m kg 0 m kg -1,5 m kg -3 m kg -4,5 m kg -3 m kg -4,5 m kg                                  | *19 060<br>*25 980<br>*29 540<br>*25 370<br>*19 090            | *19 060<br>*25 980<br>*29 540<br>*25 370<br>*19 090            | *19 930<br>*22 580<br>*24 430<br>*25 120<br>*24 670<br>*23 120<br>*20 270<br>*15 400            | "19 930<br>"22 580<br>22 300<br>21 550<br>21 250<br>21 270<br>"20 270                      | "14 880<br>"16 370<br>"17 870<br>"19 060<br>"19 660<br>"19 520<br>"18 470<br>"16 160<br>"11 380            | "14 880<br>"16 370<br>16 900<br>16 120<br>15 580<br>15 290<br>15 260<br>15 480                       | "12 710<br>"12 810<br>"13 390<br>"14 200<br>"15 070<br>"15 770<br>"16 110<br>"15 910<br>"14 880<br>"12 250 | '12 710 '12 810 '13 390 13 380 12 840 12 360 12 000 11 810 11 810             | '9 630<br>'12 430<br>'12 790<br>'13 210<br>'13 530<br>'13 560<br>'13 030                       | '9 630<br>10 650<br>10 400<br>10 100<br>9 810<br>9 610<br>9 540                     | "10 430<br>"9 670<br>"9 310<br>"9 200<br>"9 290<br>"9 580<br>"10 080<br>"10 880<br>"12 120<br>"12 030<br>"11 530      | "10 430<br>"9 670<br>"9 310<br>"9 200<br>8 900<br>8 530<br>8 440<br>8 600<br>9 090<br>10 030<br>"11 530       | 8,5<br>9,7<br>10,5<br>11,1<br>11,5<br>11,6<br>11,6<br>11,3<br>10,9<br>10,2<br>9,2<br>7,8          |
| Boom 7,7 m<br>+<br>Arm 5,2 m without bucket<br>+<br>Shoe 750 mm<br>+<br>Counterweight 11 300 kg  | 10,5 m kg 9 m kg 7,5 m kg 6 m kg 4,5 m kg 1,5 m kg 0 m kg -1,5 m kg -3 m kg -4,5 m kg -4,5 m kg  | "21 590<br>"25 000<br>"31 530<br>"28 400<br>"23 560<br>"16 070 | "21 590<br>"25 000<br>"31 530<br>"28 400<br>"23 560<br>"16 070 | *20 410<br>*22 850<br>*24 290<br>*24 620<br>*23 870<br>*21 960<br>*18 530<br>*12 560            | *20 410<br>22 700<br>21 590<br>20 980<br>20 780<br>20 900<br>*18 530<br>*12 560            | *14 690<br>*16 390<br>*17 890<br>*18 910<br>*19 270<br>*18 840<br>*17 440<br>*14 570                       | *14 690<br>*16 390<br>16 270<br>15 530<br>15 070<br>14 870<br>14 920<br>*14 570                      | *11 990<br>*12 920<br>*13 940<br>*14 870<br>*15 510<br>*15 710<br>*15 290<br>*13 930<br>*10 670            | *11 990 *12 920 12 950 12 370 11 890 11 570 11 430 11 500 *10 670             | *8 810<br>*10 890<br>*11 200<br>*11 720<br>*12 310<br>*12 840<br>*13 160<br>*13 120<br>*12 450 | *8 810<br>*10 890<br>10 820<br>10 480<br>10 100<br>9 740<br>9 440<br>9 240<br>9 200 | "7 670 "7 180 "6 930 "6 850 "6 900 "7 080 "7 420 "7 940 "8 720 "9 910 "10 670 "10 050 "8 370                          | "7 670 "7 180 "6 930 "6 850 "6 900 "7 080 "7 290 "7 390 "7 720 8 380 9 520 "10 050 "8 370                     | 9,8<br>10,8<br>11,6<br>12,1<br>12,4<br>12,6<br>12,5<br>12,3<br>11,9<br>11,3<br>10,4<br>9,2<br>7,5 |

Notes:

- Machine in "Fine Mode-F" (Power Boost) for lifting capacities.
   The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.
   Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
   Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

#### Lifting capacity

At the arm end without bucket.

For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick fit from the following values.

#### • EC700CL

| Across undercarriage   | Lifting<br>hook<br>related to   | 4,5 m  |  | 6,0 m   |  | 7,5 m  |  | 9,0 m   |   | 10,5 m   |   | Max. reach  |   |   |
|--|---|--|--|---|--|--|--|---|---|--|---|---|---|---|
| Along undercarriage  | ground<br>level   | Ů  | Œ  | Ð   | <b>(34</b> -   | Ů  | <b>(3</b>  | Ů   | <b>(3</b>   | Ů  | <b>G</b>  | Ů   | Œ   | Max.<br>m   |
| Boom 6,6 m ME<br>+<br>Arm 2,9 m ME<br>+<br>Shoe 900 mm<br>+<br>Counterweight 11 300 kg | 10,5 m kg 9 m kg 7,5 m kg 6 m kg 4,5 m kg 1,5 m kg 0 m kg -1,5 m kg -3 m kg -4,5 m kg -6 m kg -7,5 m kg                     | *28 900<br>*31 660<br>*35 300<br>*32 850<br>*28 440<br>*20 640 | '28 900<br>'31 660<br>'35 300<br>'32 850<br>'28 440<br>'20 640 | "19 480<br>"21 940<br>"24 440<br>"26 110<br>"26 450<br>"25 280<br>"22 150                       | *19 480 *21 940 *24 440 23 730 23 200 23 080 *22 150                                       | *16 950<br>*17 360<br>*18 480<br>*19 740<br>*20 670<br>*20 840<br>*19 800                                  | *16 950<br>*17 360<br>18 380<br>17 710<br>17 150<br>16 800<br>16 730                                 | *15 500<br>*17 000<br>*17 230   | 13 760<br>13 460<br>13 190  |  |   | *15 090 *14 020 *13 680 *13 820 *14 410 *15 490 *16 950 *16 990 *16 590 *14 760                                       | *15 090 *14 020 *13 680 13 570 12 860 12 750 13 240 14 550 *16 590 *14 760                                    | 6,7<br>7,9<br>8,6<br>9,1<br>9,3<br>9,2<br>8,9<br>8,3<br>7,4<br>6,0                                |
| Boom 7,7 m<br>+<br>Arm 2,9 m<br>+<br>Shoe 900 mm<br>+<br>Counterweight 11 300 kg       | 10,5 m kg 9 m kg 7,5 m kg 6 m kg 4,5 m kg 1,5 m kg 0 m kg -1,5 m kg -3 m kg -4,5 m kg -6 m kg -7,5 m kg                     | *26 480<br>*25 020<br>*19 620                                  | *26 480<br>*25 020<br>*19 620                                  | *20 130<br>*22 670<br>*24 740<br>*25 550<br>*25 100<br>*23 610<br>*20 970<br>*16 580            | *20 130<br>*22 670<br>23 080<br>22 270<br>21 960<br>21 970<br>*20 970<br>*16 580           | "15 660<br>"15 940<br>"16 910<br>"18 180<br>"19 350<br>"20 030<br>"19 990<br>"19 070<br>"16 970<br>"12 410 | *15 660<br>*15 940<br>*16 910<br>17 570<br>16 800<br>16 230<br>15 910<br>15 840<br>16 030<br>*12 410 | "14 820<br>"15 040<br>"15 610<br>"16 190<br>"16 520<br>"16 360<br>"15 380                       | 13 980<br>13 750<br>13 340<br>12 920<br>12 570<br>12 360<br>12 350                        |  |   | '16 980<br>'15 490<br>'14 710<br>'14 420<br>'14 230<br>'14 140<br>'14 070<br>'13 960<br>'13 720<br>'13 120<br>'11 670 | *16 980<br>*15 490<br>13 390<br>11 740<br>10 800<br>10 330<br>10 250<br>10 560<br>11 360<br>12 950<br>*11 670 | 6,8<br>8,2<br>9,2<br>9,9<br>10,3<br>10,5<br>10,4<br>10,1<br>9,6<br>8,8<br>7,7                     |
| Boom 7,7 m<br>+<br>Arm 3,55 m<br>+<br>Shoe 900 mm<br>+<br>Counterweight 11 300 kg      | 10,5 m kg 9 m kg 7,5 m kg 6 m kg 4,5 m kg 1,5 m kg 0 m kg -1,5 m kg -3 m kg -4,5 m kg -6 m kg                               | '27 070<br>'27 790<br>'22 960<br>'15 550                       | *27 070<br>*27 790<br>*22 960<br>*15 550                       | "18 860<br>"21 520<br>"23 930<br>"25 320<br>"25 470<br>"24 500<br>"22 410<br>"18 840<br>"12 550 | "18 860<br>"21 520<br>23 760<br>22 720<br>22 200<br>22 060<br>22 210<br>"18 840<br>"12 550 | 14 120<br>14 970<br>16 060<br>17 470<br>18 830<br>19 780<br>20 080<br>19 570<br>18 040<br>14 910           | 14 120<br>14 970<br>16 060<br>17 470<br>17 180<br>16 510<br>16 090<br>15 910<br>15 980<br>14 910     | "13 890<br>"14 350<br>"15 070<br>"15 810<br>"16 350<br>"16 470<br>"15 930<br>"14 290            | *13 890<br>14 070<br>13 620<br>13 150<br>12 740<br>12 460<br>12 350<br>12 460             | *13 540<br>*13 820<br>*13 950<br>*13 680   | 10 640<br>10 410<br>10 190<br>10 060  | "13 080 "12 030 "11 540 "11 400 "11 550 "11 950 "12 640 "13 260 "13 170 "12 860 "12 030 "9 820                        | "13 080<br>"12 030<br>"11 540<br>10 870<br>10 070<br>9 650<br>9 790<br>10 430<br>11 660<br>"12 030<br>"9 820  | 7,6<br>8,9<br>9,9<br>10,5<br>10,9<br>11,0<br>11,0<br>10,7<br>10,2<br>9,5<br>8,4<br>6,9            |
| Boom 7,7 m + Arm 4,2 m + Shoe 900 mm + Counterweight 11 300 kg                         | 10,5 m kg<br>9 m kg<br>7,5 m kg<br>6 m kg<br>4,5 m kg<br>1,5 m kg<br>0 m kg<br>-1,5 m kg<br>-3 m kg<br>-4,5 m kg<br>-6 m kg | *19 060<br>*25 980<br>*29 540<br>*25 370<br>*19 090            | *19 060<br>*25 980<br>*29 540<br>*25 370<br>*19 090            | *19 930<br>*22 580<br>*24 430<br>*25 120<br>*24 670<br>*23 120<br>*20 270<br>*15 400            | *19 930<br>*22 580<br>22 630<br>21 880<br>21 570<br>21 590<br>*20 270<br>*15 400           | *14 880<br>*16 370<br>*17 870<br>*19 060<br>*19 520<br>*18 470<br>*16 160<br>*11 380                       | *14 880<br>*16 370<br>17 140<br>16 360<br>15 820<br>15 530<br>15 500<br>15 720<br>*11 380            | *12 710 *12 810 *13 390 *14 200 *15 070 *16 110 *15 910 *14 880 *12 250                         | *12 710 *12 810 *13 390 13 570 13 030 12 550 12 190 12 000 *12 000 *12 250                | "9 630<br>"12 430<br>"12 790<br>"13 210<br>"13 530<br>"13 560<br>"13 030                       | "9 630<br>10 810<br>10 550<br>10 250<br>9 970<br>9 770<br>9 690                     | "10 430 "9 670 "9 310 "9 200 "9 290 "9 580 "10 080 "10 880 "12 120 "12 030 "11 530 "10 200                            | "10 430<br>"9 670<br>"9 310<br>"9 200<br>9 040<br>8 670<br>8 570<br>8 740<br>9 240<br>10 190<br>"11 530       | 8,5<br>9,7<br>10,5<br>11,1<br>11,5<br>11,6<br>11,6<br>11,4<br>10,9<br>10,2<br>9,2<br>7,8          |
| Boom 7,7 m<br>+<br>Arm 5,2 m<br>+<br>Shoe 900 mm<br>+<br>Counterweight 11 300 kg       | 10,5 m kg 9 m kg 7,5 m kg 6 m kg 4,5 m kg 3 m kg 1,5 m kg 0 m kg -1,5 m kg -3 m kg -4,5 m kg -6 m kg -7,5 m kg              | *21 590<br>*25 000<br>*31 530<br>*28 400<br>*23 560<br>*16 070 | "21 590<br>"25 000<br>"31 530<br>"28 400<br>"23 560<br>"16 070 | *20 410<br>*22 850<br>*24 290<br>*24 620<br>*23 870<br>*21 960<br>*18 530<br>*12 560            | *20 410<br>*22 850<br>21 910<br>21 310<br>21 100<br>21 220<br>*18 530<br>*12 560           | *14 690<br>*16 390<br>*17 890<br>*18 910<br>*19 270<br>*18 840<br>*17 440<br>*14 570                       | *14 690<br>*16 390<br>16 500<br>15 770<br>15 310<br>15 110<br>15 160<br>*14 570                      | "11 990<br>"12 920<br>"13 940<br>"14 870<br>"15 510<br>"15 710<br>"15 290<br>"13 930<br>"10 670 | *11 990<br>*12 920<br>13 140<br>12 560<br>12 080<br>11 760<br>11 620<br>11 690<br>*10 670 | "8 810<br>"10 890<br>"11 200<br>"11 720<br>"12 310<br>"12 840<br>"13 160<br>"13 120<br>"12 450 | *8 810<br>*10 890<br>10 970<br>10 640<br>10 260<br>9 890<br>9 590<br>9 400<br>9 360 | "7 670 "7 180 "6 930 "6 850 "6 900 "7 080 "7 420 "7 940 "8 720 "9 910 "10 670 "10 050 "8 370                          | "7 670 "7 180 "6 930 "6 850 "6 900 "7 080 "7 410 "7 520 "7 860 8 520 9 680 "10 050 "8 370                     | 9,8<br>10,8<br>11,6<br>12,1<br>12,4<br>12,6<br>12,5<br>12,3<br>11,9<br>11,3<br>10,4<br>9,2<br>7,5 |

Notes:

- Machine in "Fine Mode-F" (Power Boost) for lifting capacities.
   The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards.
   Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
   Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

#### STANDARD EQUIPMENT

#### **Engine**

Turbocharged, 4-stroke diesel engine with water cooling, direct injection and charged air cooler that meets EU Stage IIIA requirements

Automatic idling system Air filter with indicator Air intake heater Electric engine shut-off

Fuel filter and water separator

Fuel filler pump: 100 I/min, with automatic shut-off Alternator, 80 A

#### Electric/Electronic control system

Contronics:

- Advanced mode control system
- Self-diagnostic system

Machine status indication

Engine speed sensing power control

One-touch power boost Safety stop/start function Adjustable LCD color monitor Master electrical disconnect switch Engine restart prevention circuit High-capacity halogen lights:

- Frame-mounted 3
- Boom-mounted 4

Batteries, 2 x 12 V / 225 Ah Start motor, 28 V / 6,6 kW

#### Hydraulic system

Hose rupture valve: boom Overload warning device Automatic sensing hydraulic system:

- Summation system

- Boom priority
- Arm priority
- Slew priority

Boom and arm regeneration valves

Slew anti-rebound valves

Boom and arm holding valves

Boom float function

Pump flow control for hammer & shear

Multi-stage filtering system

Cylinder cushioning

Cylinder contamination seals

Auxiliary hydraulic valve

Automatic two-speed travel motors

Hydraulic oil, ISO VG 46

#### Superstructure

Access way with handrail Full height counterweight 11 300 kg Tool storage area Service walkway with anti-slip grating Undercover (heavy-duty 4,5 mm)

### Side walk-way Cab and interior

Fabric seat with heater
Pilot-operated wrist control joysticks
with 3 switches each
Heater & air-conditioner, automatic
Hydraulic dampening cab mounts
Adjustable operator seat and joystick
control console

Flexible antenna

Hydraulic safety lock lever

Cab, all-weather sound suppressed, includes:

Ashtray

- Cup holder
- Lighter
- Door locks
- Tinted glass
- Floor mat
- Horn
- Large storage area
- Pull-up type front window
- Removable lower windshield
- Seat belt
- Safety glass
- Rain shield, front
- Windshield wiper with intermittent feature
- Stereo cassette radio

Anti-vandalism kit assembly preparation Master key

#### Undercarriage

Hydraulic track adjusters Greased and sealed track chain Track guard Undercover (10 mm) Mechanically retractable track gauge

#### Track shoes

Track shoes, 650 mm with double grouser

#### Digging equipment

Boom: ME 6,6 m Arm: 2,9 m

Centralized lubrication

#### Service

Special tool for retractable frame

#### **OPTIONAL EQUIPMENT**

#### Engine

Block heater: 240V Dual stage precleaner Diesel coolant heater Water separator with heater Low noise kit

#### Electric

Extra lamps:

- Cab-mounted 1
- Upper structure-mounted 1

Travel alarm
Slew alarm
Anti-theft system
Rotating warning beacon

#### Hydraulic system

Hose rupture valve: arm Boom float function Hammer & shear: - 1 and 2 pump flow

- Additional return filter
- 1 switch control
- 2 switch control

- Pedal switch control Hydraulic oil, ISO VG 32

Hydraulic oil, ISO VG 68

Hydraulic oil, biodegradable 32 Hydraulic oil, biodegradable 46

#### Cab and interior

Fabric seat

Fabric seat with heater and air suspension Control joystick with semi-long levers Control joystick with 5 switches each Falling object guard (FOG)

- Frame-mounted (356 kg)
- Cab-mounted (153 kg)

Cab-mounted falling object protective structure (FOPS: 80 kg) Sunlight protection, roof (steel)

Foot support bar Safety screen for front window Lower wiper Anti-vandalism kit

#### Undercarriage

Full track guard (190 kg / unit)

#### Track shoes

750 mm, 900 mm track shoes with double grousers

#### Digging equipment

Boom: 7,7 m Arm: 3,55 m/4,2 m

#### Service

Electric grease gun Hand lamp Spare parts Tool kit, full scale

Standard and optional equipment may vary by market. Please consult your local Volvo dealer for details.

#### NOTES





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. And we're proud of what makes Volvo different – **More care. Built in.** 



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.

