



Volvo Construction Equipment

EW160E

VOLVO EXCAVATORS 16.2-18.2 t 115 kW



A passion for performance

At Volvo Construction Equipment, we're not just coming along for the ride. Developing products and services that raise productivity – we are confident we can lower costs and increase profits for industry experts. Part of the Volvo Group, we are passionate about innovative solutions to help you work smarter – not harder.

Helping you to do more.

Doing more with less is a trademark of Volvo Construction Equipment. High productivity has long been married to low energy consumption, ease of use and durability. When it comes to lowering life-cycle costs, Volvo is in a class of its own.

Designed to fit your needs.

There is a lot riding on creating solutions that are suited to the particular needs of different industry applications. Innovation often involves high technology – but it doesn't always have to. Some of our best ideas have been simple, based on a clear and deep understanding of our customers' working lives.



You learn a lot in 180 years.

Over the years, Volvo has advanced solutions that have revolutionized the use of construction equipment. No other name speaks Safety louder than Volvo. Protecting operators, those around them and minimizing our environmental impact are traditional values that continue to shape our product design philosophy.

We're on your side.

We back the Volvo brand with the best people. Volvo is truly a global enterprise, one that is on standby to support customers quickly and efficiently – wherever they are.

We have a passion for performance.



Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Volvo Buses



Volvo Construction Equipment



Volvo Penta



Volvo Financial Services

A vision of versatility.

Made in Germany, the Volvo EW160E wheeled excavator is an efficient and versatile machine that can make your life easier on the job site as well as increase productivity. Take all your tools with you in one trip and avoid any unnecessary travelling.

Work modes

The E-Series Wheeled Excavators feature four work modes combined with three travel speeds. In total 12 different combinations to be chosen to provide optimum performance and improved fuel efficiency.

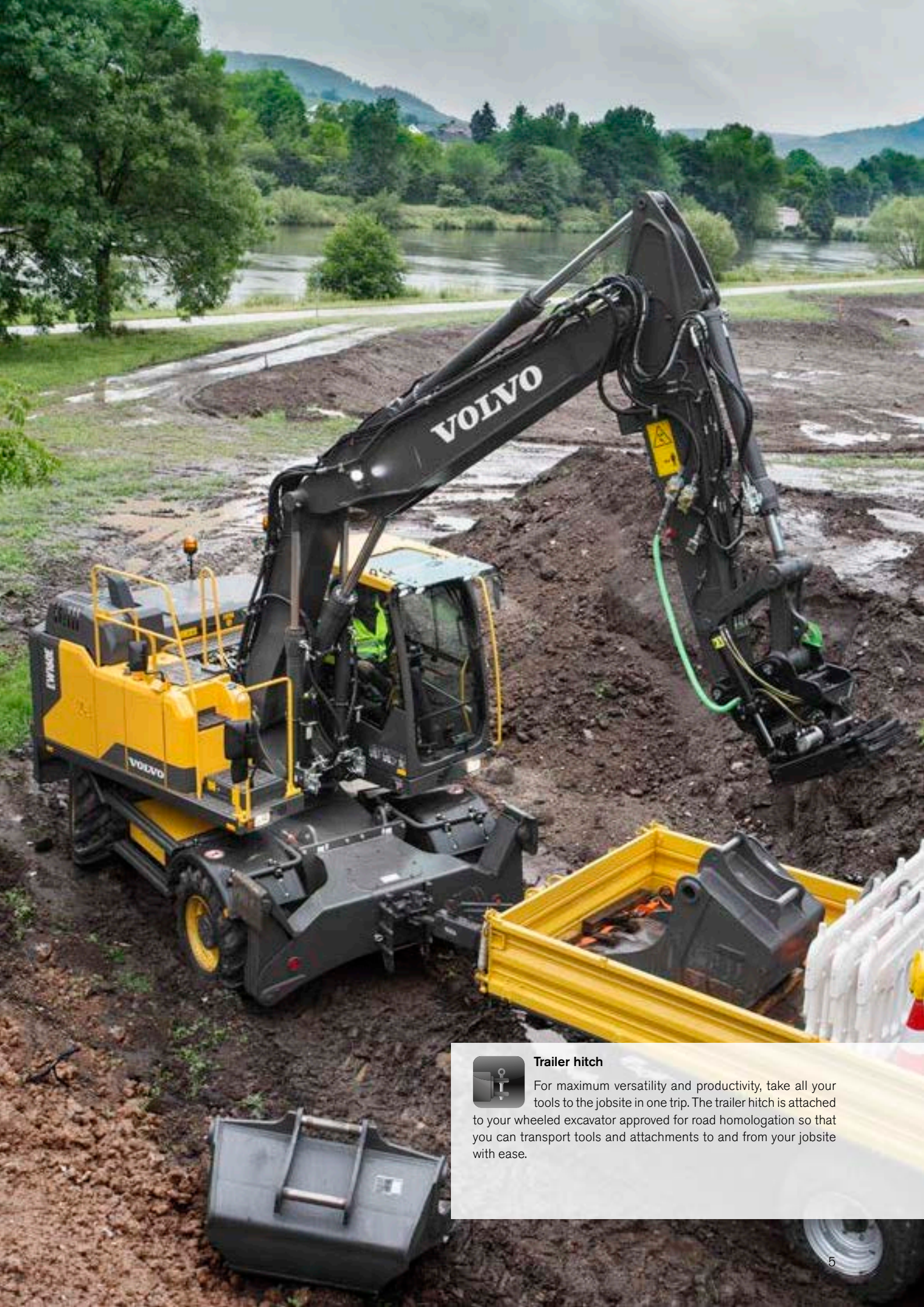


Breaker/shear (X1) and tilt/rotate (X3) management

Increase your wheeled excavator versatility with optional hydraulics functions X1 breaker/shear and X3 tilt/rotate. X1 function utilizes the main system hydraulic flow to operate attachments requiring one or two way flow whereas X3 function provides an appropriate two way flow for tilting or rotating attachments.

Drawer type tool box

This newly developed and unique concept has been tested to carry up to 120kg. Due to the smooth sliding action, it's much easier for the operator to pull out chains using the machine or other equipment manually without having to bend over or strain their body. Because it acts as a slide-out drawer, items are more visible so you can check and adjust your toolbox content much easier. A mechanical stopper has been added to prevent it from sliding out of the machine and the box dividers can be adjusted into five different positions.



Trailer hitch

For maximum versatility and productivity, take all your tools to the jobsite in one trip. The trailer hitch is attached to your wheeled excavator approved for road homologation so that you can transport tools and attachments to and from your jobsite with ease.



Cab

Volvo's industry-leading cab provides excellent visibility that is crucial for operator comfort, control and safety on your jobsite. The spacious cab, with ample storage, leg room, easy to access controls and an optional luxury seat increases operator productivity and reduces fatigue. The cab's view to the right has also been made clearer.

Operate in style.

To ensure comfort and productivity, operating the EW160E has been designed with easy operation in mind. The cab, HMI and luxuries like climate control all contribute to a happier and more comfortable operator for increased uptime.

HMI

All machine interfaces – including the joysticks, keypad and LCD monitor – are ergonomically positioned and designed for optimum control and efficiency. For operator convenience and ease of use, the number of switches has been significantly reduced.

ROPS

The Volvo cab features Roll Over Protective Structure (ROPS) safety certification, which provides more operator safety and peace-of-mind when operating in tough environments. It also provides greater ergonomic comfort leading to reduced fatigue and increased productivity.



In cab fluid check

As soon as you start up your machine it checks all fluid levels on board, including engine oil and hydraulic fluid. The machine's electronic display will tell the operator if any fluids need attention, keeping the machine running at its best and free from any unscheduled downtime.



Fuel filler pump

The fuel filler electric pump can deliver 50 liters of fuel per minute for easy and clean filling of the fuel tank from ground level. It is conveniently located next to the fuel tank.

Control with confidence.

It's not just being comfortable in the machine that is important – confidence while operating is also a key element in ensuring productivity. The EW160E wheeled excavator is equipped with the latest features to make an operator feel safe and in control of the machine at all times.

New hydraulic system

The improved hydraulic system allows maximum utilization of available engine power regardless of the application, increasing controllability and responsiveness of operations. This results in higher operator efficiency and safer controlled movement.



Tractive force

Built to last, Volvo's durable wheeled excavator undercarriage is built for tough work. Travelling on inclines or difficult terrain is easy thanks to increased tractive force.

Volvo Smart View

Three cameras attached to different corners of the machine – the front, side and back – create a bird's eye view of the machine operating from above. The cameras also provide individual views of the front, side and back of the machine so you can see all angles and ensure safe rotation. This intelligent and industry leading technology offers a 360° view of real footage happening in real time.





Boom Suspension System

The Boom Suspension System improves operator comfort and allows for faster travel over bumpy roads or rough terrain. It provides a dampening effect thanks to a hydraulic circuit complete with gas pressure dampers. The system ensures the operator has more control while travelling at high speeds.



Flexible configurations

Depending on your market and application, make the EW160E wheeled excavator perfect for your jobsite with flexible configurations. Tailor your machine to your precise specifications and get it delivered straight from the factory.

Flex your features.

The EW160E wheeled excavator can be tailored to your precise specifications to suit any jobsite. With a whole range of flexible configurations you can change attachments easily and add on useful features.

Undercarriage - with or without trailer hook

Volvo's built to last undercarriage is available with a trailer hook for added convenience. Volvo offers the machine with a hitch so you can pull trailers up to eight tonnes with dry run brakes and 3 tonnes without brakes.



Tyres

Choose from a wide range of high quality tyres to best suit your jobsite, including single and twin tyres. Depending on ground conditions, Volvo offers 12 different configurations of tyres from eight different suppliers.

Arm/grapple system

Expand your working scope with a wide range of boom and arm options. The different arm lengths can be chosen according to jobsite requirements and market legislation. The grapple manoeuvre connection allows the exchange of tools. Instead of going to the cylinder, the oil is redirected directly to the attachment which enables the operator to steer the attachment with the right hand joystick.



Fuelling reliable and efficient operations.

For maximum efficiency and reliability, the EW160E features Volvo's most powerful Stage IV engine. The machine has also been designed and rigorously tested to reduce fuel consumption and increase your productivity.

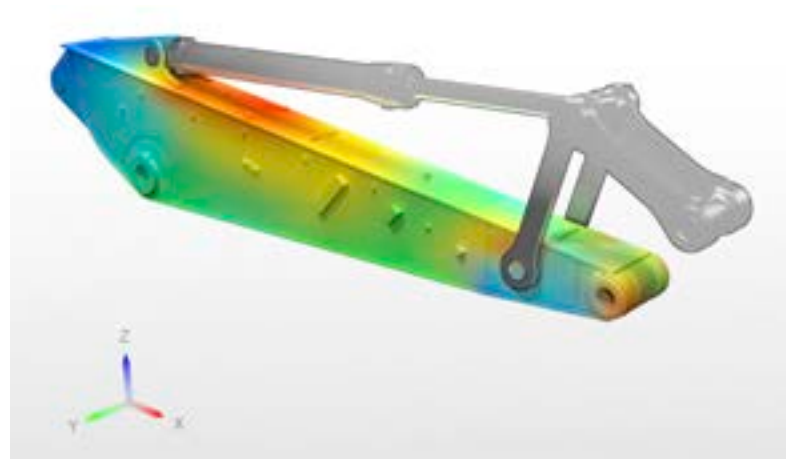
ECO mode

For increased fuel efficiency ECO mode turns on automatically, which reduces your fuel consumption while maintaining productivity.



Design and testing

The Volvo EW160E wheeled excavator has been designed and tested to ensure the highest standard of reliability and efficiency. Components, systems and technology work together to increase machine life and productivity.



Robust axles

The robust excavator axles with automatic or operator controlled front axle oscillation are highly durable and made to last for increased wear and component life.



Ground clearance

The undercarriage protects itself with high ground clearance and is strong enough to endure hard ground and tough surface conditions.



Engine

Volvo's wheeled excavators with Stage IV engines are powerful and efficient, designed to reduce fuel consumption and increase your productivity. With advanced technology, save your business time and cost.



Hydraulically elevated cab

The hydraulically elevated Volvo Care Cab lifts the operator up to five meters above the ground at eye level, providing a wider field of vision to the entire job site for more productivity and safety.

No downtime to waste.

Specifically for waste handling applications, the EW160E can be equipped with excellent features to ensure maximum productivity and durability on site. This tough environment can be counteracted with a EW160E excavator.

Waste handling package

A combination of three features, including the cyclonic engine pre-cleaner, screened ventilation covers with additional sealing around side doors and reversible cooling fans all make waste handling more comfortable for the operator.



Special grab arms

Special grab arms for attachments (such as sorting grapples) don't require the use of a bucket cylinder. To operate these attachments, the bucket control function is used to open and close the grapple.

Solid rubber tyres

The solid rubber tyres are designed to meet the most demanding requirements and are manufactured using the latest construction techniques, to offer the industry's most durable, versatile and long-lasting resilient tire.



Wide axles - 2.75 m

For better side stability the EW160E is optionally equipped with 2.75 m axles. The blade will automatically be 2.75 m wide, but the outriggers, however, are the same with wide or standard axles.

Configure your perfect excavator.



Trailer hitch

For maximum versatility and productivity, take all your tools to the jobsite in one trip.

Mono boom, two piece boom and/or two-piece off set boom

A wide range of boom options and arm lengths can be chosen according to jobsite requirements and market legislation.

New hydraulics/technology system

The improved hydraulics system allows maximum utilization of available engine power regardless of the application, increasing controllability and responsiveness of operation.

Auto greasing

This optional feature supplies the correct amount of lubrication to all greasing points on a timed basis for reduced costs.



Flexible configurations

Depending on your market and application, make the EW160E wheeled excavator perfect for your jobsite with a range of flexible configurations.

Made in Germany

Designed, made and tested in Germany, the EW160E wheeled excavator is perfect for use anywhere in the world.



Boom suspension system

The Boom Suspension System improves operator comfort and allows for faster travel over bumpy roads or rough terrain.

Volvo Smart View

Three cameras attached to different corners of the machine – the front, side and back – create a bird's eye view of the machine operating from above.

Rear and side view camera

The rear and side view camera are fitted to the machine so that the operator can see different angles around the machine on a display monitor.



Cab

Volvo's industry-leading cab provides excellent visibility that is crucial for operator comfort, control and safety on your jobsite.



Hydraulic elevated cab

The hydraulically elevated Volvo Care Cab lifts the operator by five meters above the ground at eye level for increased visibility.



Engine

Volvo's wheeled excavators with Stage IV engines are powerful and fuel efficient.

ECO mode

For increased fuel efficiency ECO mode turns on automatically, which reduces your fuel consumption while maintaining productivity.

Heavy counterweight

A heavier counterweight for increased stability is available when using bulky attachments.

AdBlue®

Volvo offers a total AdBlue solution that is quality assured, cost efficient and easily accessible. Contact your Volvo dealer for more information.

® = registered trademark of the Verband der Automobilindustrie e.V. (VDA)



Matched attachments

Volvo's durable attachments have been purpose-built to work in perfect harmony with Volvo machines, forming one solid, reliable unit. With functions and properties ideally matched, Volvo attachments are an integrated part of the excavator for which they're intended.

Mix and match for a superior fit.

Maximize your productivity and profitability with Volvo's EW160E wheeled excavator and a range of durable attachments. Increase your versatility, access more applications and perform a variety of tasks – all while experiencing faster cycle times and excellent control.

Buckets - GP/HD/XD

Volvo's buckets are the perfect tool for digging and re-handling in all conditions from soft, medium and hard materials. Heavy-duty buckets are intended for productive digging in compact materials. All provide maximum productivity and long life and feature original Volvo wear components.



Quick couplers

Volvo offers a full range of quick couplers, from its dedicated Volvo S-type coupler to the Volvo symmetrical and Steelwrist® Quick Couplers. The Steelwrist® Quick couplers come with Front Pin Lock Technology and all of our quick couplers are built to perfectly match Volvo Machines and Volvo Attachments.

Steelwrist® is a registered trademark of Steelwrist AB

HB18 Hydraulic Breaker

The HB18 hydraulic breaker is optimized to the specific weights of Volvo machines and tailored to Volvo quick couplers for swift, safe and simple attachment changes. The HB18 is available with a full assortment of tools.



Tilt Rotator

Volvo's tilt rotator can be ordered factory installed with multifunctional joysticks and color display that's fully integrated into the machine's system. The new series of Volvo XD excavator buckets are perfectly matched to the factory installed tilt rotator.

Adding value to your business.

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



Complete Solutions

Volvo has the right solution for you. So why not let us provide all your needs throughout the whole life cycle of

your machine? By listening to your requirements, we can reduce your total cost of ownership and increase your revenue.



Genuine Volvo Parts

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



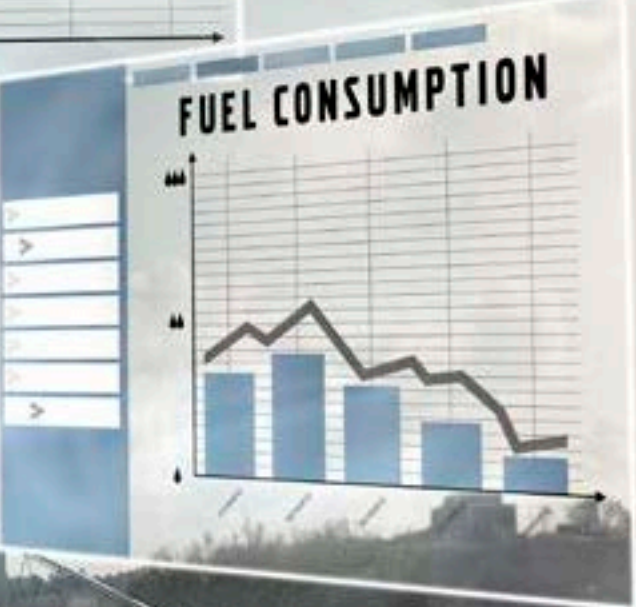
Service Network

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



SERVICE PLAN

DAY01	DAY02	DAY03	DAY04	DAY05	DAY06	DAY07
						✓
			✓	✓		
	✓				✓	✓
		✓				
✓			✓			
		✓				



Customer Support Agreements

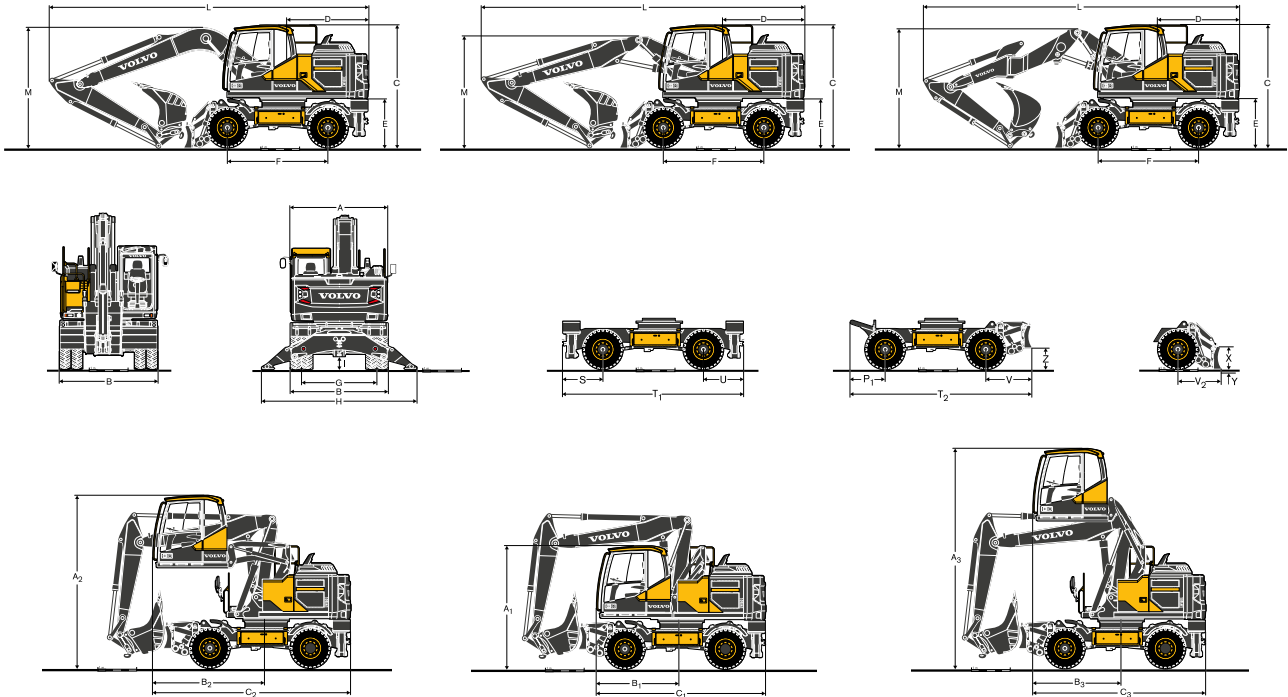
The range of Customer Support Agreements offer preventive maintenance, total repairs and a number of uptime services. Volvo uses the latest technology to monitor machine operation and status, giving you advice to increase your profitability. By having a Customer Support Agreement you are in control of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

Volvo EW160E in detail.

Engine		
Volvo Construction Equipment is ready to comply with the tough new EU Stage IV legislation for off-road vehicles with the introduction of a cascade of innovations in its new generation engines with Volvo Advanced combustion technology (V-ACT).		
Volvo machines are equipped with in-line turbo charged diesel engine with high pressure unit injector system. The engine features a externally cooled exhaust gas re-circulation (E-EGR) , a Diesel Particulate Filter (DPF) and a Selective Catalytic Reduction(SCR) with AdBlue.		
Engine		VOLVO D6J
Max power at	r/s / r/min	32 / 1 900
Net (ISO9249/SAEJ1349)	kW / hp	112 / 152
Gross (ISO 14396/SAE J1995)	kW / hp	115 / 156
Max. torque at	Nm / r/min	716 / 1 400
No. of cylinders		6
Displacement	l	5.7
Bore	mm	98
Stroke	mm	126
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.		
Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	2 x 140
Alternator	V / A	28 / 120
Alternator rating	V / kW	28 / 3.36
Undercarriage		
Drive train: A variable axle piston motor in combination with a power shift gearbox supplies 3 speeds. The gearbox distributes than the energy via propeller shafts to the axles.		
Framework: All-welded robust torsion box frame.		
Wheels: Alternative single and twin wheels available.		
Front axle: Robust excavator axle with automatic or operator controlled front axle oscillation lock.		
Undercarriage available with all possible combinations of bolted outriggers and /or parallel blade.		
Oscillating	°	± 9
Oscillating with mudguards	°	± 6
Twin wheels	type	10.00-20
Max. tractive force (net)	kN	111
Travel speed, on road	km/h	20.0 / 30.0 / 35.0
Travel speed, off road	km/h	5.0 / 7.4 / 8.7
Travel speed, creep	km/h	4
Min. turning radius	m	7.3
Cab		
New design Volvo Care Cab with operator protective structure, large and roomy interior. One way travel pedal with rocker switch control (F-N-R) on the right joystick. One-touch release for digging brake pedal.		
Audio system with remote control and Bluetooth system for hands free phoning. Independently adjustable joystick consoles.		
Excellent all-round visibility provided by maximized cab class, transparent roof hatch, 2-piece sliding door window and long stroke, easy to adjust and narrow steering column. The liftable front windshield can easily be stored in the inside roof space and clipped in position. The removable lower front glass can be stored in the side door pocket. Interior lighting consists of one reading light and one light with timer.		
The pressurized and filtered cab air is supplied by a 14-vent climate-control providing fast defrosting and high cooling and heating performance. Viscous/ spring mounted suspension cushions protect the operator from vibrations.		
Deluxe air-suspension seat with adjustable seat suspension, height, tilt, recline and forward-backward settings.(option)		
Adjustable, easy to read 8.3" LCD color monitor provides real time information of machine functions and important diagnostic information and is switchable to rear view camera monitor(standard) / side view camera (option) .A new multi function button on left hand joystick with programmable function to improve the operator comfort.		
Sound Level		
Sound level in cab according to ISO 6396		
	LpA dB(A)	70
External sound level according to ISO 6395 and EU Noise Directive 2000/14/EC		
	LwA dB(A)	100

Hydraulic system		
Closed-centre load sensing hydraulic system with pressure compensated valves. Load independence of movements. Flow sharing feature, combined with a high flow pump (power regulation). The system gives superior manoeuvrability and fast movements, for optimal working result and economy.		
The following working modes are included in the system:		
Parking mode (P): Parking position for optimal safety.		
Travel mode (T): Engine speed is controlled by travel pedal stroke for low fuel consumption and noise.		
Working mode (W): Full working flow with adjustable engine rpm for normal working and best speed utilisation.		
Customer mode (C): Operator can set proper oil flow in accordance with job conditions.		
Power Boost: All digging and lifting forces are increased.		
Hydraulic pumps		
Main pump		
Type	Low noise axial piston pump	
Max. flow	l/min	275
Brake + steering pump		
Type	Low noise gear pump	
Max. flow	l/min	36
Servo pump		
Type	Low noise gear pump	
Max. flow	l/min	15
Relief valve setting		
Implement	MPa	34 / 37.5
Travel system	MPa	37.5
Pilot System	MPa	3.5
Brakes		
Service brakes: servo-hydraulically manoeuvred self-adjusting wet multidiscs with two separate brake circuits.		
Parking brake: negative wet disc in gear housing, spring applied and pressure released.		
Digging brake: service brake with mechanical lock system.		
Security system: The 2-circuit travel brakes are supplied with two accumulators in the event of failure in the service brake system.		
Total machine weights		
Machine with 5.0 m monoblock boom, 2.45 m dipper arm, quickfit S6, 530 kg / 780 l bucket. Standard counterweight.		
Dozer blade front and outriggers rear	kg	17 250
Dozer blade rear only	kg	16 200
Front and rear outriggers	kg	17 500
Machine with 5.1m 2-piece boom, 2.45 m dipper arm, quickfit S6, 530 kg / 780 l bucket. Standard counterweight		
Dozer blade front and outriggers rear	kg	17 600
Dozer blade rear only	kg	16 550
Front and rear outriggers	kg	17 850
Service refill capacities		
Fuel tank	l	250
AdBlue tank	l	25
Hydraulic system, total	l	250
Hydraulic tank	l	123
Engine oil	l	25
Engine coolant	l	33
Transmission	l	2.5
Axle differential: (Axle housing)		
Front axle	l	9.5
Rear axle	l	12.5
Final drive, wet disc type	l	4 x 2.5
Slew system		
The superstructure is slewed by the means of a radial piston motor without reduction gear.		
Automatic slew holding brake and anti-rebound valve are standard.		
Max slew speed	rpm	9
Max. slew torque	kNm	50.4

Dimensions.



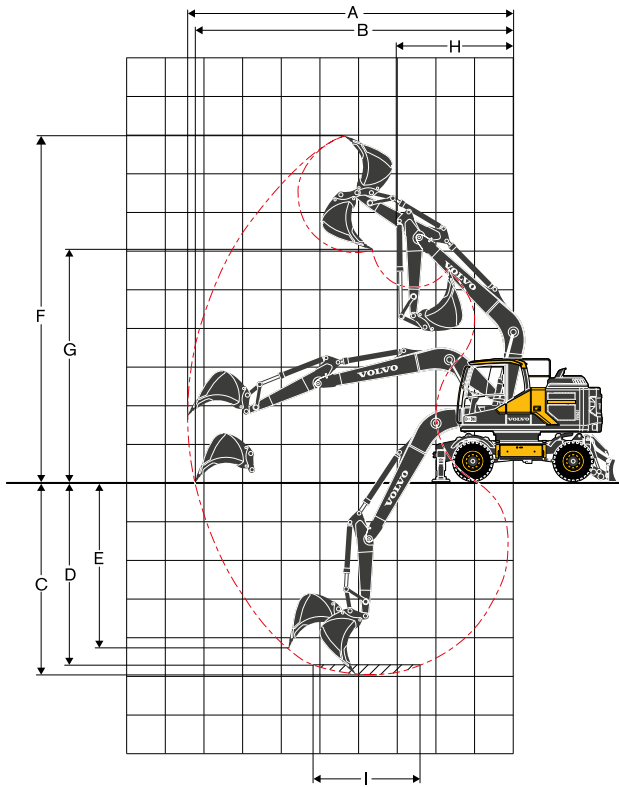
Description	Unit	Mono boom		2-piece boom		2-piece offset boom			
	m	5.0		5.1		5.2			
A Overall width of superstructure	mm	2 520		2 520		2 520			
B Overall width	mm	2 540 / 2 750		2 540 / 2 750		2 540 / 2 750			
C Overall height of cab	mm	3 140		3 140		3 140			
D Tail slew radius	mm	2 150		2 150		2 150			
E Counterweight clearance	mm	1 260		1 260		1 260			
F Wheel base	mm	2 600		2 600		2 600			
G Tread	mm	1 940		1 940		1 940			
H Outrigger width (front or rear)	mm	3 980		3 980		3 980			
I Min. ground clearance	mm	360		360		360			
Description	Unit	Mono boom							
	m	5.0							
Description	m	Arm				Grab Arm			
		2.0	2.45	2.6	3.1	2.95*			
L Overall length	mm	8 240	8 250	8 240	7 940	8 255*			
M Overall height of boom	mm	3 070	3 040	3 200	3 700	3 155*			
L ₁ Overall length	mm	-	-	-	-	-			
M ₁ Overall height of boom	mm	-	-	-	-	-			
N Front overhang	mm	-	-	-	-	-			
Description	Unit	2-piece boom				2-piece offset boom			
	m	5.1				5.2			
Description	m	Arm				Grab Arm		Arm	
		2.0	2.45	2.6	3.1	2.95*		2.0	2.45
L Overall length	mm	8 330	8 360	8 360	8 150	8 350*		8 460	8 450
M Overall height of boom	mm	2 865	2 860	2 900	3 390	2 950*		2 750	2 800
L ₁ Overall length	mm	6 440	6 440	5 960**	5 950**	6 900*		6 220	6 260
M ₁ Overall height of boom	mm	3 920	3 920	3 920**	3 940**	3 990*		3 980	3 980
N Front overhang	mm	3 200	3 215	2 715**	2 710**	3 660*		2 980	3 020

*grab arm, without clamshell bucket | ** without bucket

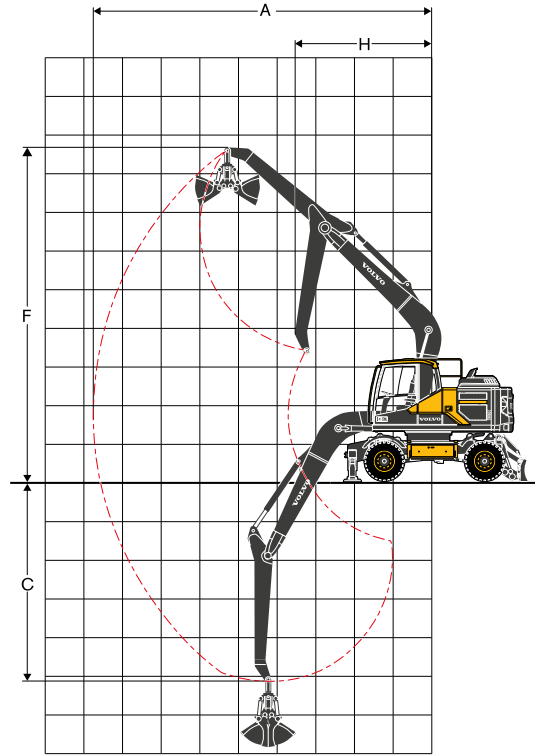
Description	Unit	Undercarriage dimensions	
P	mm	1 180	
P ₁	mm	750	
Q	mm	1 150	
R/U	mm	1 030	
S	mm	1 080	
T	mm	4 800	
T ₁	mm	4 700	
T ₂	mm	4 470	
V	mm	1 120	
V ₂	mm	920	
X	mm	630	
Y	mm	153	
Z	mm	520	

Description	Unit	Hydraulic Elevated Cab	
A ₁	mm	3 150	
B ₁	mm	4 350	
C ₁	mm	2 160	
A ₂	mm	4 430	
B ₂	mm	5 090	
C ₂	mm	2 900	
A ₃	mm	5 550	
B ₃	mm	4 440	
C ₃	mm	2 250	

Specifications.



**Mono boom 5.0m and
dipper arm 2.0m, 2.45m, 2.6m, 3.1m**



**Mono boom 5.0m and
grab arm 2.95m**

WORKING RANGES WITH DIRECT FIT BUCKET

	Unit	5.0 m boom					Grab arm 2.95*
		Arm					
	m	2.0	2.45	2.6	3.1		
A Max. digging reach	mm	8 600	9 000	9 150	9 620	8 050	
B Max. digging reach on ground	mm	8 400	8 810	8 960	9 450	-	
C Max. digging depth	mm	5 130	5 580	5 730	6 230	4 590	
D Max. digging depth (l=2.44m level)	mm	4 910	5 400	5 550	6 070	-	
E Max. vertical wall digging depth	mm	4 320	4 770	4 920	5 400	-	
F Max. cutting height	mm	8 840	9 100	9 190	9 470	8 090	
G Max. dumping height	mm	5 900	6 150	6 230	6 520	-	
H Min. front slew radius	mm	3 140	3 150	3 160	3 190	3 270	

* without clamshell bucket

DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket)	ISO	kN	126*	126*	126*	126*
Tearout force	ISO	kN	98*	86*	82*	72*

* with powerboost

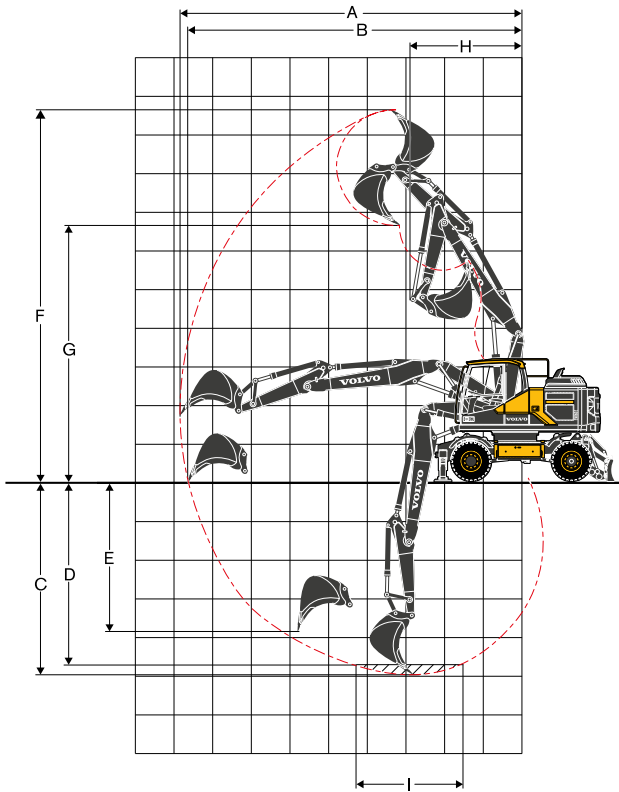
Max. recommended sizes for direct fit buckets

GP-Bucket (1.8t/m ³)	l	1 100	957	957	858
HD-Bucket (2.1t/m ³)	l	770	770	770	682

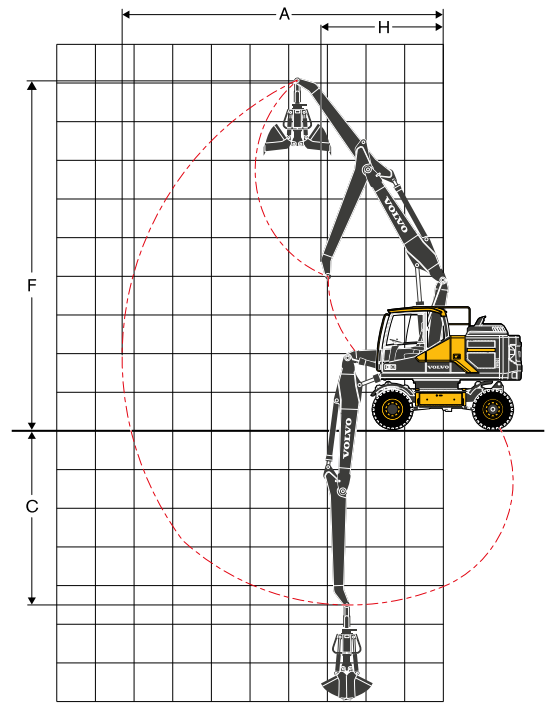
Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8t/m ³)	l	870	780	780	700
S6 QF HD-Bucket (2.1t/m ³)	l	700	700	620	500
S1 QF GP-Bucket (1.8t/m ³)	l	870	780	700	620
S1 QF HD-Bucket (2.1t/m ³)	l	700	620	620	360

Note: 1. Bucket size based on SAE-J296, 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. 3. "Max permitted sizes" are for heavy counterweight.



2-piece boom 5.1m and dipper arm 2.0m, 2.45m, 2.6m, 3.1m



2-piece boom 5.1m and grab arm 2.95m

WORKING RANGES WITH DIRECT FIT BUCKET

	Unit	5.1 m 2-piece boom					Grab arm
		Arm				2.95*	
	m	2.0	2.45	2.6	3.1		
A Max. digging reach	mm	8 720	9 150	9 300	9 770	8 200	
B Max. digging reach on ground	mm	8 520	8 960	9 110	9 600	-	
C Max. digging depth	mm	5 120	5 570	5 720	6 220	4 600	
D Max. digging depth (l=2.44m level)	mm	5 020	5 470	5 620	6 120	-	
E Max. vertical wall digging depth	mm	4 080	4 550	4 700	5 180	-	
F Max. cutting height	mm	9 640	10 000	10 100	10 450	9 000	
G Max. dumping height	mm	6 670	7 000	7 110	7 480	-	
H Min. front slew radius	mm	2 690	2 820	2 860	3 000	3 010	

* without clamshell bucket

DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket)	ISO	kN	126*	126*	126*	126*
Tearout force	ISO	kN	98*	86*	82*	72*

* with powerboost

Max. recommended sizes for direct fit buckets

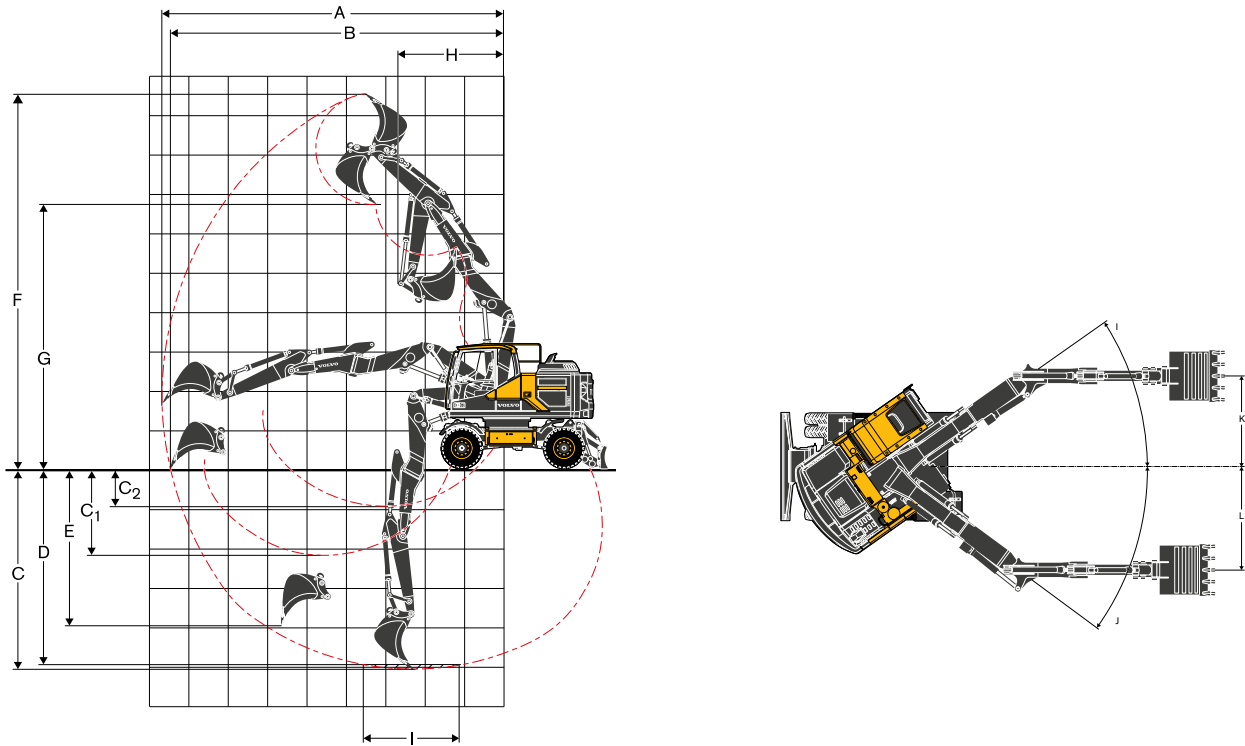
GP-Bucket (1.8t/m ³)	l	957	957	858	770
HD-Bucket (2.1t/m ³)	l	770	770	770	682

Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8t/m ³)	l	870	780	780	700
S6 QF HD-Bucket (2.1t/m ³)	l	700	620	620	500
S1 QF GP-Bucket (1.8t/m ³)	l	870	700	700	620
S1 QF HD-Bucket (2.1t/m ³)	l	700	620	620	360

Note: 1. Bucket size based on SAE-J296, 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. 3. "Max permitted sizes" are for heavy counterweight.

Specifications.



2-piece offset boom 5.2m and dipper arm 2.0m, 2.45m, 2.6m

WORKING RANGES WITH DIRECT FIT BUCKET

	Unit	5.2 m 2-piece offset boom		
		2.0	2.45	2.6
A Max. digging reach	mm	8 760	9 200	9 330
B Max. digging reach on ground	mm	8 560	9 000	9 140
C Max. digging depth	mm	5 210	5 660	5 810
C ₁ Max. digging depth at max. attachment offset with vertical trench walls	mm	2 280	2 730	2 880
C ₂ Min. digging depth at max. attachment offset with vertical trench walls	mm	1 030	1 480	1 630
D Max. digging depth (l=2.44m level)	mm	5 100	5 560	5 710
E Max. vertical wall digging depth	mm	4 000	4 410	4 560
F Max. cutting height	mm	9 570	9 880	9 000
G Max. dumping height	mm	6 700	7 000	7 100
H Min. front swing radius	mm	2 710	2 820	2 850
J ₁	°	35	35	35
J ₂	°	36	36	36
K	mm	2 120	2 120	2 120
L	mm	2 430	2 430	2 430

DIGGING FORCES WITH DIRECT FIT BUCKET

Breakout force (bucket)	ISO	kN	108*	108*	108*
Tearout force	ISO	kN	73*	63.5*	61*

* with powerboost

Max. recommended sizes for direct fit buckets

GP-Bucket (1.8t/m ³)	l	780	780	700
HD-Bucket (2.1t/m ³)	l	620	620	620

Max. recommended sizes for quick fit buckets

S6/S60 QF GP-Bucket (1.8t/m ³)	l	780	700	700
S6 QF HD-Bucket (2.1t/m ³)	l	620	500	500
S1 QF GP-Bucket (1.8t/m ³)	l	620	620	620
S1 QF HD-Bucket (2.1t/m ³)	l	620	500	500

Note: 1. Bucket size based on SAE-J296, 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. 3. "Max permitted sizes" are for heavy counterweight.

LIFTING CAPACITY EW160E with heavy counterweight

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values.
With heavy counterweight. Unit: 1 000kg

	Lifting point	Reach from machine centre (u = support up/d = support down)																												
		1.5 m				3.0 m				4.5 m				6.0 m				7.5 m				Max.								
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.				
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m				
Mono Boom: 5m Dipper arm: 2m Front dozer blade Rear outrigger	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1	4*	4*	4*	5.7	
	4.5	-	-	-	-	-	-	-	-	4.3	5.3*	5.3*	5.3*	2.8	4.6	4.2	4.7*	-	-	-	-	-	-	-	2.4	3.8*	3.7	3.8*	6.5	
	3	-	-	-	-	-	-	-	-	4	6.6*	6.4	6.6*	2.6	4.5	4.1	5.2*	-	-	-	-	-	-	-	2.1	3.6	3.3	3.9*	7	
	1.5	-	-	-	-	-	-	-	-	3.7	6.7	6.1	7.7*	2.5	4.4	4	5.7*	-	-	-	-	-	-	-	2	3.4	3.1	4.1*	7.1	
	0	-	-	-	-	-	-	-	-	3.6	6.5	5.9	8.2*	2.5	4.3	3.9	6*	-	-	-	-	-	-	-	2.1	3.6	3.3	4.7*	6.8	
	-1.5	-	-	-	-	6.5	11.4*	11.4*	11.4*	3.6	6.5	5.9	7.9*	2.4	4.3	3.9	5.7*	-	-	-	-	-	-	-	2.3	4.1	3.7	5.4*	6.2	
	-3	-	-	-	-	6.7	9.4*	9.4*	9.4*	3.7	6.6*	6	6.6*	-	-	-	-	-	-	-	-	-	-	-	3.1	5.5*	5	5.5*	5.1	
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mono Boom: 5m Dipper arm: 2.45m Front dozer blade Rear outrigger	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7*	3.7*	3.7*	3.7*	4.8
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.8	4*	4*	4*	-	-	-	-	-	-	-	2.7	3.2*	3.2*	3.2*	6.2	
	4.5	-	-	-	-	-	-	-	-	4.3	4.8*	4.8*	4.8*	2.8	4.3*	4.3	4.3*	-	-	-	-	-	-	2.1	3*	3*	3*	7		
	3	-	-	-	-	-	-	-	-	4	6.1*	6.1*	6.1*	2.6	4.5	4.1	4.9*	-	-	-	-	-	-	1.9	3.1*	3	3.1*	7.4		
	1.5	-	-	-	-	-	-	-	-	3.7	6.7	6.1	7.4*	2.5	4.3	4	5.5*	1.8	3.1	2.9	3.3*	1.8	3.1	2.9	3.2*	3.2*	2.9	3.2*	7.5	
	0	-	-	-	-	-	6*	6*	6*	6*	3.6	6.5	5.9	8.1*	2.4	4.2	3.9	5.9*	-	-	-	-	-	-	1.9	3.2	2.9	3.6*	7.3	
	-1.5	6.2*	6.2*	6.2*	6.2*	6.4	10.9*	10.9*	10.9*	3.5	6.5	5.9	8*	2.4	4.2	3.8	5.8*	-	-	-	-	-	-	-	2.1	3.6	3.3	4.4*	6.7	
	-3	-	-	-	-	6.5	10.3*	10.3*	10.3*	3.6	6.5	5.9	7.1*	-	-	-	-	-	-	-	-	-	-	-	2.6	4.6	4.2	5.2*	5.7	
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mono Boom: 5m Dipper arm: 2.6m Front dozer blade Rear outrigger	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4*	3.4*	3.4*	3.4*	5
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.8	4*	4*	4*	-	-	-	-	-	-	-	2.5	2.9*	2.9*	2.9*	6.4	
	4.5	-	-	-	-	-	-	-	-	4.4	4.6*	4.6*	4.6*	2.8	4.2*	4.2*	4.2*	-	-	-	-	-	-	-	2.1	2.8*	2.8*	2.8*	7.2	
	3	-	-	-	-	-	-	-	-	4	5.9*	5.9*	5.9*	2.6	4.5	4.1	4.8*	1.9	3.2	2.9	3.3*	1.8	2.8*	2.8*	2.8*	2.8*	2.8*	2.8*	7.6	
	1.5	-	-	-	-	-	-	-	-	3.7	6.7	6.1	7.2*	2.5	4.3	4	5.4*	1.8	3.1	2.8	4.1*	1.7	3*	2.8	3*	2.8	3*	7.6		
	0	-	-	-	-	6.2*	6.2*	6.2*	6.2*	3.5	6.5	5.9	8*	2.4	4.2	3.9	5.8*	-	-	-	-	-	-	-	1.8	3.1	2.8	3.4*	7.4	
	-1.5	6*	6*	6*	6*	6.3	10.5*	10.5*	10.5*	3.5	6.4	5.8	8.1*	2.4	4.2	3.8	5.9*	-	-	-	-	-	-	-	2	3.5	3.2	4.1*	6.9	
	-3	-	-	-	-	6.4	10.6*	10.6*	10.6*	3.5	6.5	5.9	7.2*	-	-	-	-	-	-	-	-	-	-	-	2.5	4.4	4	5.1*	5.9	
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mono Boom: 5m Dipper arm: 3.1m Front dozer blade Rear outrigger	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6*	2.6*	2.6*	2.6*	5.7
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.9	3.5*	3.5*	3.5*	-	-	-	-	-	-	-	2.2	2.4*	2.4*	2.4*	6.9	
	4.5	-	-	-	-	-	-	-	-	-	-	-	-	2.8	3.8*	3.8*	3.8*	1.9	2.9*	2.9*	2.9*	1.8	2.3*	2.3*	2.3*	2.3*	2.3*	2.3*	7.7	
	3	-	-	-	-	-	-	-	-	4	5.9*	5.9*	5.9*	2.6	4.5	4.1	4.8*	1.9	3.2	2.9	3.3*	1.8	2.8*	2.8*	2.8*	2.8*	2.8*	2.8*	7.6	
	1.5	-	-	-	-	-	-	-	-	3.7	6.7	6.1	7.2*	2.5	4.3	4	5.4*	1.8	3.1	2.8	4.1*	1.7	3*	2.8	3*	2.8	3*	7.6		
	0	-	-	-	-	6.3	6.6*	6.6*	6.6*	3.5	6.5	5.9	7.8*	2.4	4.2	3.8	5.7*	1.7	3	2.8	4.5*	1.6	2.7*	2.6	2.7*	2.7*	2.7*	7.9		
	-1.5	5.3*	5.3*	5.3*	5.3*	6.2	9.6*	9.6*	9.6*	3.4	6.4	5.8	8.1*	2.3	4.1	3.8	5.9*	-	-	-	-	-	-	-	1.7	3.1	2.8	3.1*	7.4	
	-3	9*	9*	9*	9*	6.3	11.3*	11.3*	11.3*	3.5	6.4	5.8	7.6*	2.3	4.2	3.8	5.4*	-	-	-	-	-	-	-	2.1	3.7	3.4	4.2*	6.5	
-4.5	-	-	-	-	6.6	8.6*	8.6*	8.6*	3.6	5.7*	5.7*	5.7*	-	-	-	-	-	-	-	-	-	-	-	3.2	4.8*	4.8*	4.8*	4.9		
Mono Boom: 5m Grab Arm: 2.95m Front dozer blade Rear outrigger	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2*	3.2*	3.2*	3.2*	5.6
	6	-	-	-	-	-	-	-	-	-	-	-	-	3.1	4*	4*	4*	-	-	-	-	-	-	-	2.5	2.8*	2.8*	2.8*	6.8	
	4.5	-	-	-	-	-	-	-	-	-	-	-	-	3	4.2*	4.2*	4.2*	2.1	3.1*	3.1*	3.1*	2.1	2.7*	2.7*	2.7*	2.7*	2.7*	7.6		
	3	-	-	-	-	-	-	-	-	4.3	5.8*	5.8*	5.8*	2.9	4.8	4.4	4.8*	2.1	3.4	3.2	4.4*	1.9	2.7*	2.7*	2.7*	2.7*	2.7*	8		
	1.5	-	-	-	-	-	-	-	-	4	7	6.4	7.2*	2.8	4.6	4.2	5.5*	2	3.3	3.1	4.7*	1.8	2.8*	2.8	2.8*	2.8*	2.8*	8		
	0	-	-	-	-	6.1*	6.1*	6.1*	6.1*	3.8	6.8	6.2	8.2*	2.6	4.5	4.1	6*	2	3.3	3	4.9*	1.9	3*	2.9	3*	2.9	3*	7.8		
	-1.5	5.3*	5.3*	5.3*	5.3*	6.6	9.6*	9.6*	9.6*	3.7	6.7	6.1	8.4*	2.6	4.4	4	6.2*	-	-	-	-	-	-	-	2	3.4	3.1	3.5*	7.3	
	-3	9.3*	9.3*	9.3*	9.3*	6.7	11.4*	11.4*	11.4*	3.8	6.7	6.1	7.8*	2.6	4.4	4.1	5.6*	-	-	-	-	-	-	-	2.4	4.1	3.8	4.5*	6.4	
-4.5	-	-	-	-	-	-	-	-	3.9	5.6*	5.6*	5.6*	-	-	-	-	-	-	-	-	-	-	-	3.8	5.4*	5.4*	5.4*	4.6		
Mono Boom: 5m Arm: 2m Front and rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1	4*	4*	4*	5.7
	4.5	-	-	-	-	-	-	-	-	4.3	5.3*	5.3*	5.3*	2.8	4.7*	4.2	4.7*	-	-	-	-	-	-	-	2.4	3.8*	3.7	3.8*	6.5	
	3	-	-	-	-	-	-	-	-	4	6.6*	6.4	6.6*	2.7	5.2*	4.1	5.2*	-	-	-	-	-	-	-	2.1	3.9*	3.2	3.9*	7	
	1.5	-	-	-	-	-	-	-	-	3.8	7.7*	6.1	7.7*	2.6	5.6	4	5.7*	-	-	-	-	-	-	-	2	4.1*	3.1	4.1*	7.1	
	0	-	-	-	-	-	-	-	-	3.6	8.2*	5.9	8.2*	2.5	5.5	3.9	6*	-	-	-	-	-	-	-	2.1	4.6	3.2	4.7*	6.8	
	-1.5	-	-	-	-	6.6	11.4*	11.4*	11.4*	3.6	7.9*	5.9	7.9*	2.5	5.5	3.9	5.7*	-	-	-	-	-	-	-	2.4	5.2	3.7	5.4*	6.2	
	-3	-	-	-	-	6.8	9.4*	9.4*	9.4*	3.7	6.6*	6	6.6*	-	-	-	-	-	-	-	-	-	-	-	3.2	5.5*	5	5.5*	5.1	
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes: 1. Working pressure with Power Boost = 37.5 MPa. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load.

Specifications.

LIFTING CAPACITY EW160E with heavy counterweight

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values.
With heavy counterweight. Unit: 1 000kg

	Lifting point	Reach from machine centre (u = support up/d = support down)																											
		1.5 m				3.0 m				4.5 m				6.0 m				7.5 m				Max.							
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.			
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m			
Mono Boom: 5m Dipper arm: 2.45m Front and rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7*	3.7*	3.7*	3.7*	4.8
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.8	4*	4*	4*	-	-	-	-	-	-	-	2.7	3.2*	3.2*	3.2*	6.2
	4.5	-	-	-	-	-	-	-	-	4.4	4.8*	4.8*	4.8*	2.8	4.3*	4.2	4.3*	-	-	-	-	-	-	-	2.2	3*	3*	3*	7
	3	-	-	-	-	-	-	-	-	4.1	6.1*	6.1*	6.1*	2.7	4.9*	4.1	4.9*	-	-	-	-	-	-	-	1.9	3.1*	2.9	3.1*	7.4
	1.5	-	-	-	-	-	-	-	-	3.8	7.4*	6.1	7.4*	2.5	5.5*	4	5.5*	1.8	3.3*	2.8	3.3*	-	-	-	1.8	3.2*	2.8	3.2*	7.5
	0	-	-	-	-	6*	6*	6*	6*	3.6	8.1*	5.9	8.1*	2.4	5.5	3.8	5.9*	-	-	-	-	-	-	-	1.9	3.6*	2.9	3.6*	7.3
	-1.5	6.2*	6.2*	6.2*	6.2*	6.4	10.9*	10.9*	10.9*	3.6	8*	5.8	8*	2.4	5.4	3.8	5.8*	-	-	-	-	-	-	-	2.1	4.4*	3.3	4.4*	6.7
	-3	-	-	-	-	6.6	10.3*	10.3*	10.3*	3.6	7.1*	5.9	7.1*	-	-	-	-	-	-	-	-	-	-	-	2.7	5.2*	4.2	5.2*	5.7
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono Boom: 5m Dipper arm: 2.6m Front and rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4*	3.4*	3.4*	3.4*	5
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.9	4*	4*	4*	-	-	-	-	-	-	-	2.6	2.9*	2.9*	2.9*	6.4
	4.5	-	-	-	-	-	-	-	-	4.4	4.6*	4.6*	4.6*	2.8	4.2*	4.2*	4.2*	-	-	-	-	-	-	-	2.1	2.8*	2.8*	2.8*	7.2
	3	-	-	-	-	-	-	-	-	4.1	5.9*	5.9*	5.9*	2.7	4.8*	4.1	4.8*	1.9	3.3*	2.9	3.3*	1.9	2.8*	2.8*	1.9	2.8*	2.8*	2.8*	7.6
	1.5	-	-	-	-	-	-	-	-	3.8	7.2*	6.1	7.2*	2.5	5.4*	3.9	5.4*	1.8	4	2.8	4.1*	1.8	3*	2.7	3*	2.7	3*	7.6	
	0	-	-	-	-	6.2*	6.2*	6.2*	6.2*	3.6	8*	5.9	8*	2.4	5.5	3.8	5.8*	-	-	-	-	-	-	-	1.8	3.4*	2.8	3.4*	7.4
	-1.5	6*	6*	6*	6*	6.4	10.5*	10.5*	10.5*	3.5	8.1*	5.8	8.1*	2.4	5.4	3.8	5.9*	-	-	-	-	-	-	-	2	4.1*	3.2	4.1*	6.9
	-3	-	-	-	-	6.5	10.6*	10.6*	10.6*	3.6	7.2*	5.9	7.2*	-	-	-	-	-	-	-	-	-	-	-	2.5	5.1*	4	5.1*	5.9
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono Boom: 5m Dipper arm: 3.1m Front and rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6*	2.6*	2.6*	2.6*	5.7
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.9	3.5*	3.5*	3.5*	-	-	-	-	-	-	-	2.2	2.4*	2.4*	2.4*	6.9
	4.5	-	-	-	-	-	-	-	-	-	-	-	-	2.8	3.8*	3.8*	3.8*	1.9	2.9*	2.9*	2.9*	1.9	2.3*	2.3*	1.9	2.3*	2.3*	2.3*	7.7
	3	-	-	-	-	7.7	7.7*	7.7*	7.7*	4.2	5.3*	5.3*	5.3*	2.7	4.4*	4.1	4.4*	1.9	4*	2.9	4*	1.7	2.3*	2.3*	1.7	2.3*	2.3*	2.3*	8
	1.5	-	-	-	-	-	-	-	-	3.8	6.8*	6.1	6.8*	2.5	5.1*	4	5.1*	1.8	4	2.8	4.3*	1.6	2.4*	2.4*	1.6	2.4*	2.4*	2.4*	8.1
	0	-	-	-	-	6.4	6.6*	6.6*	6.6*	3.6	7.8*	5.9	7.8*	2.4	5.5	3.8	5.7*	1.8	3.9	2.8	4.5*	1.6	2.7*	2.6	2.7*	2.6	2.7*	7.9	
	-1.5	5.3*	5.3*	5.3*	5.3*	6.3	9.6*	9.6*	9.6*	3.5	8.1*	5.8	8.1*	2.3	5.4	3.8	5.9*	-	-	-	-	-	-	-	1.8	3.1*	2.8	3.1*	7.4
	-3	9*	9*	9*	9*	6.4	11.3*	11.3*	11.3*	3.5	7.6*	5.8	7.6*	2.4	5.4	3.8	5.4*	-	-	-	-	-	-	-	2.2	4.2*	3.4	4.2*	6.5
-4.5	-	-	-	-	6.7	8.6*	8.6*	8.6*	3.7	5.7*	5.7*	5.7*	-	-	-	-	-	-	-	-	-	-	-	3.2	4.8*	4.8*	4.8*	4.9	
Mono Boom: 5m Grab arm: 2.95m Front and rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2*	3.2*	3.2*	3.2*	5.6
	6	-	-	-	-	-	-	-	-	-	-	-	-	3.1	4*	4*	4*	-	-	-	-	-	-	-	2.5	2.8*	2.8*	2.8*	6.8
	4.5	-	-	-	-	-	-	-	-	-	-	-	-	3.1	4.2*	4.2*	4.2*	2.2	3.1*	3.1*	3.1*	2.1	2.7*	2.7*	2.1	2.7*	2.7*	2.7*	7.6
	3	-	-	-	-	-	-	-	-	4.4	5.8*	5.8*	5.8*	2.9	4.8*	4.4	4.8*	2.1	4.3	3.1	4.4*	1.9	2.7*	2.7*	1.9	2.7*	2.7*	2.7*	8
	1.5	-	-	-	-	-	-	-	-	4.1	7.2*	6.4	7.2*	2.8	5.5*	4.2	5.5*	2.1	4.2	3.1	4.7*	1.9	2.8*	2.8	1.9	2.8*	2.8	2.8*	8
	0	-	-	-	-	6.1*	6.1*	6.1*	6.1*	3.9	8.2*	6.1	8.2*	2.7	5.7	4.1	6*	2	4.2	3	4.9*	1.9	3*	3*	1.9	3*	3*	3*	7.8
	-1.5	5.3*	5.3*	5.3*	5.3*	6.6	9.6*	9.6*	9.6*	3.8	8.4*	6	8.4*	2.6	5.7	4	6.2*	-	-	-	-	-	-	-	2.1	3.5*	3.1	3.5*	7.3
	-3	9.3*	9.3*	9.3*	9.3*	6.7	11.4*	11.4*	11.4*	3.8	7.8*	6.1	7.8*	2.6	5.6*	4.1	5.6*	-	-	-	-	-	-	-	2.5	4.5*	3.8	4.5*	6.4
-4.5	-	-	-	-	-	-	-	-	4	5.6*	5.6*	5.6*	-	-	-	-	-	-	-	-	-	-	-	3.9	5.4*	5.4*	5.4*	4.6	
Mono Boom: 5m Dipper Arm: 2m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4.5	-	-	-	-	-	-	-	-	4.1	4.6	5.3*	5.3*	2.6	2.9	4.2	4.7*	-	-	-	-	-	-	-	2.2	2.5	3.7	3.8*	6.7
	3	-	-	-	-	-	-	-	-	3.8	4.3	6.4	6.6*	2.5	2.8	4.1	5.2*	-	-	-	-	-	-	-	2	2.2	3.2	3.9*	7
	1.5	-	-	-	-	-	-	-	-	3.5	4	6.1	7.7*	2.4	2.7	4	5.7*	-	-	-	-	-	-	-	1.9	2.1	3.1	4.1*	7.1
	0	-	-	-	-	-	-	-	-	3.4	3.9	5.9	8.2*	2.3	2.6	3.9	6*	-	-	-	-	-	-	-	1.9	2.2	3.2	4.7*	6.8
	-1.5	-	-	-	-	6.1	7.2	11.4*	11.4*	3.4	3.9	5.9	7.9*	2.3	2.6	3.9	5.7*	-	-	-	-	-	-	-	2.2	2.5	3.7	5.4*	6.2
	-3	-	-	-	-	6.3	7.4	9.4*	9.4*	3.5	4	6	6.6*	-	-	-	-	-	-	-	-	-	-	-	3	3.4	5	5.5*	5.1
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono Boom: 5m Arm: 2.45m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7*	3.7*	3.7*	3.7*	4.8
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.7	3	4*	4*	-	-	-	-	-	-	-	2.5	2.8	3.2*	3.2*	6.2
	4.5	-	-	-	-	-	-	-	-	4.1	4.6	4.8*	4.8*	2.6	3	4.2	4.3*	-	-	-	-	-	-	-	2	2.3	3*	3*	7
	3	-	-	-	-	-	-	-	-	3.8	4.3	6.1*	6.1*	2.5	2.8	4.1	4.9*	-	-	-	-	-	-	-	1.8	2	2.9	3.1*	7.4
	1.5	-	-	-	-	-	-	-	-	3.5	4	6.1	7.4*	2.4	2.7	4	5.5*	1.7	1.9	2.8	3.3*	1.7	1.9	2.8	1.7	1.9	2.8	3.2*	7.5
	0	-	-	-	-	6	6*	6*	6*	3.5	3.8	5.9	8.1*	2.3	2.6	3.8	5.9*	-	-	-	-	-	-	-	1.7	2	2.9	3.6*	7.3
	-1.5	6.2*	6.2*	6.2*	6.2*	6	7	10.9*	10.9*	3.3	3.8	5.8	8*	2.2	2.6	3.8	5.8*	-	-	-	-	-	-	-	1.9	2.2	3.3	4.4*	6.7
	-3	-	-	-	-	6.1	7.2	10.3*	10.3*	3.4	3.9	5.9	7.1*	-	-	-	-	-	-	-	-	-	-	-	2.5	2.8	4.2	5.2*	5.7
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes: 1. Working pressure with Power Boost = 37.5 MPa. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load.

LIFTING CAPACITY EW160E with heavy counterweight

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values.
With heavy counterweight. Unit: 1 000kg

	Lifting point	Reach from machine centre (u = support up/d = support down)																											
		1.5 m				3.0 m				4.5 m				6.0 m				7.5 m				Max.							
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.			
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m			
Mono Boom: 5m Dipper arm: 2.6m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4*	3.4*	3.4*	3.4*	5
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.7	3	4*	4*	-	-	-	-	-	-	-	2.4	2.7	2.9*	2.9*	6.4
	4.5	-	-	-	-	-	-	-	-	4.1	4.6*	4.6*	4.6*	2.6	3	4.2*	4.2*	-	-	-	-	-	-	-	1.9	2.2	2.8*	2.8*	7.2
	3	-	-	-	-	-	-	-	-	3.8	4.3	5.9*	5.9*	2.5	2.8	4.1	4.8*	1.7	2	2.9	3.3*	1.7	1.9	2.8*	2.8*	2.8*	2.8*	7.6	
	1.5	-	-	-	-	-	-	-	-	3.5	4	6.1	7.2*	2.3	2.7	4	5.4*	1.7	1.9	2.8	4.1*	1.6	1.9	2.7	3*	7.6			
	0	-	-	-	-	5.9	6.2*	6.2*	6.2*	3.3	3.8	5.9	8*	2.2	2.6	3.8	5.8*	-	-	-	-	-	-	-	1.7	1.9	2.8	3.4*	7.4
	-1.5	6*	6*	6*	6*	5.9	7	10.5*	10.5*	3.3	3.8	5.8	8.1*	2.2	2.5	3.8	5.9*	-	-	-	-	-	-	-	1.9	2.1	3.2	4.1*	6.9
	-3	-	-	-	-	6.1	7.1	10.6*	10.6*	3.3	3.8	5.9	7.2*	-	-	-	-	-	-	-	-	-	-	-	2.3	2.7	4	5.1*	5.9
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mono Boom: 5m Dipper arm: 3.1m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.6*	2.6*	2.6*	2.6*	5.7
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.7	3.1	3.5*	3.5*	-	-	-	-	-	-	-	2.1	2.4	2.4*	2.4*	6.9
	4.5	-	-	-	-	-	-	-	-	-	-	-	-	2.7	3	3.8*	3.8*	1.8	2	2.9*	2.9*	1.7	2	2.3*	2.3*	7.7			
	3	-	-	-	-	7.2	7.7*	7.7*	7.7*	3.9	4.4	5.3*	5.3*	2.5	2.9	4.1	4.4*	1.7	2	2.9	4*	1.5	1.8	2.3*	2.3*	8			
	1.5	-	-	-	-	-	-	-	-	3.6	4.1	6.1	6.8*	2.4	2.7	4	5.1*	1.7	1.9	2.8	4.3*	1.5	1.7	2.4*	2.4*	8.1			
	0	-	-	-	-	5.9	6.6*	6.6*	6.6*	3.3	3.8	5.9	7.8*	2.2	2.6	3.8	5.7*	1.6	1.9	2.8	4.5*	1.5	1.7	2.6	2.7*	7.9			
	-1.5	5.3*	5.3*	5.3*	5.3*	5.8	6.9	9.6*	9.6*	3.2	3.7	5.8	8.1*	2.2	2.5	3.8	5.9*	-	-	-	-	-	-	-	1.6	1.9	2.8	3.1*	7.4
	-3	9*	9*	9*	9*	5.9	7	11.3*	11.3*	3.2	3.7	5.8	7.6*	2.2	2.5	3.8	5.4*	-	-	-	-	-	-	-	2	2.3	3.4	4.2*	6.5
-4.5	-	-	-	-	6.2	7.3	8.6*	8.6*	3.4	3.9	5.7*	5.7*	-	-	-	-	-	-	-	-	-	-	-	3	3.4	4.8*	4.8*	4.9	
Mono Boom: 5m Grab arm: 2.95m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2*	2.1	3.2*	3.2*	5.6
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.9	2	4*	4*	-	-	-	-	-	-	-	2.4	1.5	2.8*	2.8*	6.8
	4.5	-	-	-	-	-	-	-	-	-	-	-	-	2.9	1.9	4.2*	4.2*	2	1.3	3.1*	3.1*	2	1.3	2.7*	2.7*	7.6			
	3	-	-	-	-	-	-	-	-	4.1	2.7	5.8*	5.8*	2.8	1.8	4.4	4.8*	2	1.3	3.1	4.4*	1.8	1.1	2.7*	2.7*	8			
	1.5	-	-	-	-	-	-	-	-	3.8	2.4	6.4	7.2*	2.6	1.7	4.2	5.5*	1.9	1.2	3.1	4.7*	1.7	1.1	2.8	2.8*	8			
	0	-	-	-	-	6.1*	3.5	6.1*	6.1*	3.6	2.2	6.1	8.2*	2.5	1.5	4.1	6*	1.9	1.2	3	4.9*	1.8	1.1	2.8	3*	7.8			
	-1.5	5.3*	5.3*	5.3*	5.3*	6.2	3.5	9.6*	9.6*	3.5	2.1	6	8.4*	2.4	1.5	4	6.2*	-	-	-	-	-	-	-	1.9	1.2	3.1	3.5*	7.3
	-3	9.3*	9.3*	9.3*	9.3*	6.3	3.6	11.4*	11.4*	3.5	2.1	6.1	7.8*	2.5	1.5	4.1	5.6*	-	-	-	-	-	-	-	2.3	1.4	3.8	4.5*	6.4
-4.5	-	-	-	-	-	-	-	-	3.7	2.3	5.6*	5.6*	-	-	-	-	-	-	-	-	-	-	-	3.6	2.2	5.4*	5.4*	4.6	
2-piece Boom: 5.1m Dipper arm: 2m Front dozer blade Rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	5.2*	5.3*	5.2*	4.3
	6	-	-	-	-	-	-	-	-	4.5	4.8*	4.8*	4.8*	-	-	-	-	-	-	-	-	-	-	-	2.9	4.4*	4.4*	4.4*	5.8
	4.5	-	-	-	-	7.5*	7.4*	7.5*	7.4*	4.3	5.5*	5.6*	5.5*	2.7	4.6	4.2	4.9*	-	-	-	-	-	-	-	2.3	3.9	3.5	4.2*	6.7
	3	-	-	-	-	-	-	-	-	3.9	6.8*	6.4	6.8*	2.6	4.5	4.1	5.3*	-	-	-	-	-	-	-	2	3.4	3.2	4.2*	7.1
	1.5	-	-	-	-	-	-	-	-	3.7	6.7	6.1	8*	2.5	4.4	4	5.9*	-	-	-	-	-	-	-	1.9	3.3	3	4.4*	7.2
	0	-	-	-	-	-	-	-	-	3.6	6.5	5.9	8.4*	2.4	4.3	3.9	6.1*	-	-	-	-	-	-	-	2	3.5	3.2	5*	7
	-1.5	-	-	-	-	6.5	10.4	10.4*	10.4*	3.5	6.5	5.9	8*	2.4	4.3	3.9	5.8*	-	-	-	-	-	-	-	2.3	3.9	3.6	5.3*	6.4
	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-piece Boom: 5.1m Dipper Arm: 2.45m Front dozer blade Rear outriggers	7.5	-	-	-	-	-	-	-	-	4.4*	4.4*	4.4*	4.4*	-	-	-	-	-	-	-	-	-	-	-	3.7	4*	4*	4*	5
	6	-	-	-	-	-	-	-	-	4.2*	4.2*	4.2*	4.2*	2.8	4.3*	4.3*	4.3*	-	-	-	-	-	-	-	2.5	3.5*	3.5*	3.5*	6.4
	4.5	-	-	-	-	-	-	-	-	4.3	5*	5*	5*	2.8	4.5*	4.3	4.5*	-	-	-	-	-	-	-	2	3.3*	3.2	3.3*	7.2
	3	-	-	-	-	-	-	-	-	4	6.3*	6.3*	6.3*	2.6	4.5	4.1	5*	1.8	3.2	2.9	3.8*	1.8	3.1	2.9	3.3*	7.6			
	1.5	-	-	-	-	-	-	-	-	3.7	6.7	6.1	7.6*	2.5	4.3	4	5.6*	1.8	3.1	2.9	4.7*	1.7	3	2.8	3.5*	7.7			
	0	-	-	-	-	-	-	-	-	3.5	6.5	5.9	8.3*	2.4	4.2	3.9	6*	-	-	-	-	-	-	-	1.8	3.1	2.9	3.9*	7.4
	-1.5	-	-	-	-	6.3	9.4*	9.4*	9.4*	3.5	6.4	5.8	8.2*	2.4	4.2	3.8	6*	-	-	-	-	-	-	-	2	3.5	3.2	4.6*	6.9
	-3	-	-	-	-	-	-	-	-	3.6	6.5	5.9	7.2*	-	-	-	-	-	-	-	-	-	-	-	2.7	4.8	4.4	5.6*	5.5
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-piece Boom: 5.1m Dipper Arm: 2.6m Front dozer blade Rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.5	3.7*	3.7*	3.7*	5.2
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.8	4.1*	4.1*	4.1*	-	-	-	-	-	-	-	2.4	3.2*	3.2*	3.2*	6.5
	4.5	-	-	-	-	-	-	-	-	4.3	4.8*	4.8*	4.8*	2.8	4.4*	4.3	4.4*	-	-	-	-	-	-	-	2	3.1*	3.1	3.1*	7.3
	3	-	-	-	-	-	-	-	-	4	6.2*	6.2*	6.2*	2.6	4.5	4.1	4.9*	1.8	3.2	2.9	4.3*	1.8	3	2.8	3.1*	7.7			
	1.5	-	-	-	-	-	-	-	-	3.7	6.7	6.1	7.5*	2.5	4.3	4	5.5*	1.8	3.1	2.8	4.6*	1.7	2.9	2.7	3.2*	3.3*	7.8		
	0	-	-	-	-	4.7*	4.7*	4.7*	4.7*	3.5	6.5	5.9	8.2*	2.4	4.2	3.8	6*	1.7	3.1	2.8	4.3*	1.7	3	2.8	3.6*	7.6			
	-1.5	-	-	-	-	6.3	9.1*	9.1*	9.1*	3.4	6.4	5.8	8.2*	2.3	4.2	3.8	6*	-	-	-	-	-	-	-	1.9	3.4	3.1	4.3*	7
	-3	-	-	-	-	-	-	-	-	3.5	6.5	5.9	7.3*	-	-	-	-	-	-	-	-	-	-	-	2.4	4.3	4	5.2*	5.9
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes: 1. Working pressure with Power Boost = 37.5 MPa. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load.

Specifications.

LIFTING CAPACITY EW160E with heavy counterweight

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values.
With heavy counterweight. Unit: 1 000kg

	Lifting point	Reach from machine centre (u = support up/d = support down)																												
		1.5 m				3.0 m				4.5 m				6.0 m				7.5 m				Max.								
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.				
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m				
2-piece Boom: 5.1m Dipper Arm: 3.1m Front dozer blade Rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	2.9*	2.9*	2.9*	5.9	
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.9	3.7*	3.7*	3.7*	-	-	-	-	-	-	-	2.1	2.6*	2.6*	2.6*	7.1	
	4.5	-	-	-	-	-	-	-	-	4.2*	4.2*	4.2*	4.2*	2.8	4*	4*	4*	1.9	3.1	3	3.5*	1.7	2.5*	2.5*	2.5*	7.8				
	3	-	-	-	-	-	-	-	-	4.1	5.6*	5.6*	5.6*	2.6	4.3	4.2	4.6*	1.8	3	2.9	4.1*	1.6	2.5*	2.5*	2.5*	8.2				
	1.5	-	-	-	-	-	-	-	-	3.7	6.4	6.1	7*	2.5	4.1	4	5.3*	1.8	2.9	2.8	4.4*	1.5	2.5	2.4	2.6*	8.3				
	0	-	-	-	-	5.2*	5.2*	5.2*	5.2*	3.5	6.1	5.9	8*	2.4	4	3.8	5.8*	1.7	2.9	2.8	4.6*	1.5	2.6	2.5	2.9*	8.1				
	-1.5	-	-	-	-	6.2	8.3*	8.3*	8.3*	3.4	6	5.8	8.2*	2.3	3.9	3.8	6*	1.7	2.9	2.8	3.8*	1.7	2.8	2.7	3.3*	7.6				
	-3	-	-	-	-	6.3	11.3*	11.3*	11.3*	3.4	6.1	5.8	7.7*	2.3	3.9	3.8	5.5*	-	-	-	-	-	2	3.4	3.3	4.3*	6.7			
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2-piece Boom: 5.1m Grab Arm: 2.95m Front dozer blade Rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	3.5*	3.5*	3.5*	5.8	
	6	-	-	-	-	-	-	-	-	-	-	-	-	3.1	4.1*	4.1*	4.1*	-	-	-	-	-	-	-	2.4	3.1*	3.1*	3.1*	7	
	4.5	-	-	-	-	-	-	-	-	4.6	4.7*	4.7*	4.7*	3	4.4*	4.4*	4.4*	2.1	3.5	3.2	3.9*	2	2.9*	2.9*	2.9*	7.7				
	3	-	-	-	-	-	-	-	-	4.3	6.1*	6.1*	6.1*	2.9	4.8	4.4	5*	2.1	3.4	3.2	4.5*	1.8	2.9*	2.8	2.9*	8.1				
	1.5	-	-	-	-	-	-	-	-	4	7	6.4	7.5*	2.7	4.6	4.2	5.7*	2	3.3	3.1	4.8*	1.8	3	2.7	3*	8.2				
	0	-	-	-	-	-	-	-	-	3.8	6.8	6.1	8.4*	2.6	4.5	4.1	6.2*	2	3.3	3	5*	1.8	3	2.8	3.2*	8				
	-1.5	-	-	-	-	6.5	8.2*	8.2*	8.2*	3.7	6.7	6.1	8.5*	2.6	4.4	4	6.3*	-	-	-	-	-	2	3.3	3	3.7*	7.5			
	-3	-	-	-	-	6.6	11.5*	11.5*	11.5*	3.7	6.7	6.1	7.9*	2.6	4.4	4.1	5.7*	-	-	-	-	-	2.4	4	3.7	4.8*	6.5			
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2-piece Boom: 5.1m Dipper Arm: 2m Front and rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	5.2*	5.3*	5.2*	4.3	
	6	-	-	-	-	-	-	-	-	4.5	4.8*	4.8*	4.8*	-	-	-	-	-	-	-	-	-	-	-	2.9	4.4*	4.4*	4.4*	5.8	
	4.5	-	-	-	-	7.5*	7.4*	7.5*	7.4*	4.3	5.5*	5.6*	5.5*	2.8	4.9*	4.2	4.9*	-	-	-	-	-	-	-	2.3	4.2*	3.5	4.2*	6.7	
	3	-	-	-	-	-	-	-	-	4	6.8*	6.3	6.8*	2.7	5.3*	4.1	5.3*	-	-	-	-	-	-	-	2	4.2*	3.1	4.2*	7.1	
	1.5	-	-	-	-	-	-	-	-	3.7	8*	6	8*	2.5	5.6	4	5.9*	-	-	-	-	-	-	-	1.9	4.2	3	4.4*	7.2	
	0	-	-	-	-	-	-	-	-	3.6	8.4*	5.9	8.4*	2.5	5.5	3.9	6.1*	-	-	-	-	-	-	-	2	4.4	3.1	5*	7	
	-1.5	-	-	-	-	6.6	10.4	10.4*	10.4*	3.6	8	5.9	8*	2.5	5.5	3.9	5.8*	-	-	-	-	-	-	-	2.3	5.1	3.6	5.3*	6.4	
	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-piece Boom: 5.1m Dipper Arm: 2.45m Front and rear outriggers	7.5	-	-	-	-	-	-	-	-	4.4*	4.4*	4.4*	4.4*	-	-	-	-	-	-	-	-	-	-	-	3.8	4*	4*	4*	5	
	6	-	-	-	-	-	-	-	-	4.2*	4.2*	4.2*	4.2*	2.8	4.3*	4.3	4.3*	-	-	-	-	-	-	-	2.5	3.5*	3.5*	3.5*	6.4	
	4.5	-	-	-	-	-	-	-	-	4.4	5*	5*	5*	2.8	4.5*	4.3	4.5*	-	-	-	-	-	-	-	2.1	3.3*	3.2	3.3*	7.2	
	3	-	-	-	-	-	-	-	-	4	6.3*	6.3*	6.3*	2.7	5*	4.1	5*	1.9	3.8*	2.9	3.8*	1.8	3.3*	2.9	3.3*	7.6				
	1.5	-	-	-	-	-	-	-	-	3.7	7.6*	6	7.6*	2.5	5.6	3.9	5.6*	1.8	4	2.8	4.7*	1.8	3.5*	2.8	3.5*	7.7				
	0	-	-	-	-	-	-	-	-	3.6	8.3*	5.9	8.3*	2.4	5.5	3.8	6*	-	-	-	-	-	-	-	1.8	3.9*	2.8	3.9*	7.4	
	-1.5	-	-	-	-	6.4	9.4*	9.4*	9.4*	3.5	8.2*	5.8	8.2*	2.4	5.5	3.8	6*	-	-	-	-	-	-	-	2	4.5	3.2	4.6*	6.9	
	-3	-	-	-	-	-	-	-	-	3.6	7.2*	5.9	7.2*	-	-	-	-	-	-	-	-	-	-	-	-	2.7	5.6*	4.3	5.6*	5.5
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-piece Boom: 5.1m Dipper Arm: 2.6m Front and rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.5	3.7*	3.7*	3.7*	5.2	
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.9	4.1*	4.1*	4.1*	-	-	-	-	-	-	-	2.4	3.2*	3.2*	3.2*	6.5	
	4.5	-	-	-	-	-	-	-	-	4.4	4.8*	4.8*	4.8*	2.8	4.4*	4.3	4.4*	-	-	-	-	-	-	-	-	2	3.1*	3.1	3.1*	7.3
	3	-	-	-	-	-	-	-	-	4	6.2*	6.2*	6.2*	2.7	4.9*	4.1	4.9*	1.9	4	2.9	4.3*	1.8	3.1*	2.8	3.1*	7.7				
	1.5	-	-	-	-	-	-	-	-	3.7	7.5*	6.1	7.5*	2.5	5.5*	3.9	5.5*	1.8	4	2.8	4.6*	1.7	3.3*	2.7	3.3*	7.8				
	0	-	-	-	-	4.7*	4.7*	4.7*	4.7*	3.5	8.2*	5.8	8.2*	2.4	5.5	3.8	6*	1.8	3.9	2.8	4.3*	1.7	3.6*	2.7	3.6*	7.6				
	-1.5	-	-	-	-	6.3	9.1*	9.1*	9.1*	3.5	8.2*	5.8	8.2*	2.4	5.4	3.8	6*	-	-	-	-	-	-	-	1.9	4.3*	3.1	4.3*	7	
	-3	-	-	-	-	-	-	-	-	3.6	7.3*	5.9	7.3*	-	-	-	-	-	-	-	-	-	-	-	-	2.5	5.2*	3.9	5.2*	5.9
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-piece Boom: 5.1m Dipper Arm: 3.1m Front and rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	2.9*	2.9*	2.9*	5.9	
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.9	3.7*	3.7*	3.7*	-	-	-	-	-	-	-	2.1	2.6*	2.6*	2.6*	7.1	
	4.5	-	-	-	-	-	-	-	-	4.2*	4.2*	4.2*	4.2*	2.8	4*	4*	4*	1.9	3.5*	3	3.5*	1.8	2.5*	2.5*	2.5*	7.8				
	3	-	-	-	-	-	-	-	-	4.1	5.6*	5.6*	5.6*	2.7	4.6*	4.1	4.6*	1.9	4.1	2.9	4.1*	1.6	2.5*	2.5*	2.5*	8.2				
	1.5	-	-	-	-	-	-	-	-	3.8	7*	6.1	7*	2.5	5.3*	4	5.3*	1.8	4	2.8	4.4*	1.5	2.6*	2.4	2.6*	8.3				
	0	-	-	-	-	5.2*	5.2*	5.2*	5.2*	3.5	8*	5.8	8*	2.4	5.5	3.8	5.8*	1.7	3.9	2.8	4.6*	1.6	2.9*	2.5	2.9*	8.1				
	-1.5	-	-	-	-	6.3	8.3*	8.3*	8.3*	3.4	8.2*	5.7	8.2*	2.3	5.4	3.7	6*	1.7	3.8*	2.7	3.8*	1.7	3.3*	2.7	3.3*	7.6				
	-3	-	-	-	-	6.4	11.3*	11.3*	11.3*	3.5	7.7*	5.8	7.7*	2.3	5.4	3.8	5.5*	-	-	-	-	-	-	-	2.1	4.3*	3.3	4.3*	6.7	
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes: 1. Working pressure with Power Boost = 37.5 MPa. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load.

LIFTING CAPACITY EW160E with heavy counterweight

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values.
With heavy counterweight. Unit: 1 000kg

	Lifting point	Reach from machine centre (u = support up/d = support down)																											
		1.5 m				3.0 m				4.5 m				6.0 m				7.5 m				Max.							
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.			
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m			
2-piece Boom: 5.1m Grab Arm: 2.95m Front and rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	3.5*	3.5*	3.5*	5.8
	6	-	-	-	-	-	-	-	-	-	-	-	-	3.1	4.1*	4.1*	4.1*	-	-	-	-	-	-	-	2.4	3.1*	3.1*	3.1*	7
	4.5	-	-	-	-	-	-	-	-	4.7	4.7*	4.7*	4.7*	3.1	4.4*	4.4*	4.4*	2.2	3.9*	3.2	3.9*	2	2.9*	2.9*	2.9*	7.7			
	3	-	-	-	-	-	-	-	-	4.4	6.1*	6.1*	6.1*	2.9	5*	4.4	5*	2.1	4.3	3.1	4.5*	1.9	2.9*	2.8	2.9*	8.1			
	1.5	-	-	-	-	-	-	-	-	4	7.5*	6.4	7.5*	2.8	5.7*	4.2	5.7*	2	4.2	3.1	4.8*	1.8	3*	2.7	3*	8.2			
	0	-	-	-	-	-	-	-	-	3.8	8.4*	6.1	8.4*	2.6	5.7	4.1	6.2*	2	4.2	3	5*	1.8	3.2*	2.8	3.2*	8			
	-1.5	-	-	-	-	6.6	8.2*	8.2*	8.2*	3.7	8.5*	6	8.5*	2.6	5.7	4	6.3*	-	-	-	-	2	3.7*	3	3.7*	7.5			
	-3	-	-	-	-	6.7	11.5*	11.5*	11.5*	3.8	7.9*	6.1	7.9*	2.6	5.7	4	5.7*	-	-	-	-	2.4	4.8*	3.6	4.8*	6.5			
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-piece Boom: 5.1m Dipper Arm: 2m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5	5	5.3*	5.2*	4.3
	6	-	-	-	-	-	-	-	-	4.2	4.8	4.8*	4.8*	-	-	-	-	-	-	-	-	-	-	-	2.7	3.1	4.4*	4.4*	5.8
	4.5	-	-	-	-	7.5*	7.4*	7.5*	7.4*	4	4.6	5.6*	5.5*	2.6	2.9	4.2	4.9*	-	-	-	-	2.1	2.4	3.5	4.2*	6.7			
	3	-	-	-	-	-	-	-	-	3.7	4.2	6.3	6.8*	2.5	2.8	4.1	5.3*	-	-	-	-	1.9	2.1	3.1	4.2*	7.1			
	1.5	-	-	-	-	-	-	-	-	3.5	4	6	8*	2.3	2.7	4	5.9*	-	-	-	-	1.8	2.1	3	4.4*	7.2			
	0	-	-	-	-	-	-	-	-	3.3	3.8	5.9	8.4*	2.3	2.6	3.9	6.1*	-	-	-	-	1.9	2.1	3.1	5*	7			
	-1.5	-	-	-	-	6.1	7.2	10.4*	10.4*	3.3	3.8	5.9	8*	2.3	2.6	3.9	5.8*	-	-	-	-	2.1	2.4	3.6	5.3*	6.4			
	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-piece Boom: 5.1m Dipper Arm: 2.45m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	4.3	4.4*	4.4*	4.4*	-	-	-	-	-	-	-	-	-	-	-	3.5	4	4*	4*	5
	6	-	-	-	-	-	-	-	-	4.2*	4.2*	4.2*	4.2*	2.7	3	4.3	4.3*	-	-	-	-	2.4	2.7	3.5*	3.5*	6.4			
	4.5	-	-	-	-	-	-	-	-	4.1	4.6	5*	5*	2.6	2.9	4.3	4.5*	-	-	-	-	1.9	2.2	3.2	3.3*	7.2			
	3	-	-	-	-	-	-	-	-	3.8	4.3	6.3*	6.3*	2.5	2.8	4.1	5*	1.7	2	2.9	3.8*	1.7	1.9	2.9	3.3*	7.6			
	1.5	-	-	-	-	-	-	-	-	3.5	4	6.1	7.6*	2.3	2.7	3.9	5.6*	1.7	1.9	2.8	4.7*	1.6	1.9	2.8	3.5*	7.7			
	0	-	-	-	-	-	-	-	-	3.3	3.8	5.9	8.3*	2.2	2.6	3.8	6*	-	-	-	-	1.7	1.9	2.8	3.9*	7.4			
	-1.5	-	-	-	-	5.9	7	9.4*	9.4*	3.3	3.8	5.8	8.2*	2.2	2.5	3.8	6*	-	-	-	-	1.9	2.1	3.2	4.6*	6.9			
	-3	-	-	-	-	-	-	-	-	3.3	3.8	5.9	7.2*	-	-	-	-	-	-	-	-	2.5	2.9	4.3	5.6*	5.5			
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-piece Boom: 5.1m Dipper Arm: 2.6m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	3.7*	3.7*	3.7*	5.2
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.7	3	4.1*	4.1*	-	-	-	-	2.3	2.6	3.2*	3.2*	6.5			
	4.5	-	-	-	-	-	-	-	-	4.1	4.7	4.8*	4.8*	2.6	2.9	4.3	4.4*	-	-	-	-	1.8	2.1	3.1	3.1*	7.3			
	3	-	-	-	-	-	-	-	-	3.8	4.3	6.2*	6.2*	2.5	2.8	4.1	4.9*	1.7	2	2.9	4.3*	1.6	1.9	2.8	3.1*	7.7			
	1.5	-	-	-	-	-	-	-	-	3.5	4	6.1	7.5*	2.3	2.7	3.9	5.5*	1.7	1.9	2.8	4.6*	1.6	1.8	2.7	3.3*	7.8			
	0	-	-	-	-	4.7*	4.7*	4.7*	4.7*	3.3	3.8	5.8	8.2*	2.2	2.5	3.8	6*	1.6	1.9	2.8	4.3*	1.6	1.8	2.7	3.6*	7.6			
	-1.5	-	-	-	-	5.9	7	9.1*	9.1*	3.2	3.7	5.8	8.2*	2.2	2.5	3.8	6*	-	-	-	-	1.8	2	3.1	4.3*	7			
	-3	-	-	-	-	-	-	-	-	3.3	3.8	5.9	7.3*	-	-	-	-	-	-	-	-	2.3	2.6	3.9	5.2*	5.9			
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-piece Boom: 5.1m Dipper Arm: 3.1m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	2.9*	2.9*	2.9*	5.9
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.7	3.1	3.7*	3.7*	-	-	-	-	2	2.2	2.6*	2.6*	7.1			
	4.5	-	-	-	-	-	-	-	-	4.2	4.2*	4.2*	4.2*	2.6	3	4*	4*	1.8	2	3	3.5*	1.6	1.9	2.5*	2.5*	7.8			
	3	-	-	-	-	-	-	-	-	3.9	4.4	5.6*	5.6*	2.5	2.8	4.1	4.6*	1.7	2	2.9	4.1*	1.5	1.7	2.5*	2.5*	8.2			
	1.5	-	-	-	-	-	-	-	-	3.5	4	6.1	7*	2.3	2.7	4	5.3*	1.7	1.9	2.8	4.4*	1.4	1.6	2.4	2.6*	8.3			
	0	-	-	-	-	5.2*	5.2*	5.2*	5.2*	3.3	3.8	5.8	8*	2.2	2.5	3.8	5.8*	1.6	1.8	2.8	4.6*	1.4	1.6	2.5	2.9*	8.1			
	-1.5	-	-	-	-	5.8	6.9	8.3*	8.3*	3.2	3.7	5.7	8.2*	2.1	2.5	3.7	6*	1.6	1.8	2.7	3.8*	1.6	1.8	2.7	3.3*	7.6			
	-3	-	-	-	-	5.9	7	11.3*	11.3*	3.2	3.7	5.8	7.7*	2.2	2.5	3.8	5.5*	-	-	-	-	1.9	2.2	3.3	4.3*	6.7			
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-piece Boom: 5.1m Grab Arm: 2.95m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3.4	3.5*	3.5*	5.8
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.9	3.3	4.1*	4.1*	-	-	-	-	2.2	2.5	3.1*	3.1*	7			
	4.5	-	-	-	-	-	-	-	-	4.4	4.7*	4.7*	4.7*	2.9	3.2	4.4*	4.4*	2	2.3	3.2	3.9*	1.9	2.1	2.9*	2.9*	7.7			
	3	-	-	-	-	-	-	-	-	4.1	4.6	6.1*	6.1*	2.7	3.1	4.4	5*	2	2.2	3.1	4.5*	1.7	2	2.8	2.9*	8.1			
	1.5	-	-	-	-	-	-	-	-	3.8	4.3	6.4	7.5*	2.6	2.9	4.2	5.7*	1.9	2.1	3.1	4.8*	1.7	1.9	2.7	3*	8.2			
	0	-	-	-	-	-	-	-	-	3.5	4.1	6.1	8.4*	2.5	2.8	4.1	6.2*	1.8	2.1	3	5*	1.7	1.9	2.8	3.2*	8			
	-1.5	-	-	-	-	6.1	7.2	8.2*	8.2*	3.5	4	6	8.5*	2.4	2.7	4	6.3*	-	-	-	-	1.9	2.1	3	3.7*	7.5			
	-3	-	-	-	-	6.3	7.3	11.5*	11.5*	3.5	4	6.1	7.9*	2.4	2.8	4	5.7*	-	-	-	-	2.2	2.5	3.6	4.8*	6.5			
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes: 1. Working pressure with Power Boost = 37.5 MPa. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load.

Specifications.

LIFTING CAPACITY EW160E with heavy counterweight

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. Unit: 1 000kg

	Lifting point	Reach from machine centre (u = support up/d = support down)																											
		1.5 m				3.0 m				4.5 m				6.0 m				7.5 m				Max.							
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.			
		m	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m		
2-piece offset Boom: 5.2m Dipper Arm: 2m Front dozer blade Rear outriggers	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4*	4*	4*	4*	4.5
	6	-	-	-	-	-	-	-	-	4.5	4.6*	4.6*	4.6*	-	-	-	-	-	-	-	-	-	-	-	2.8	3.5*	3.5*	3.5*	5.9
	4.5	-	-	-	-	7.4*	7.3*	7.4*	7.3*	4.2	5.3*	5.4*	5.3*	2.7	4.6	4.2	4.6*	-	-	-	-	-	-	-	2.2	3.3*	3.3*	3.3*	6.8
	3	-	-	-	-	-	-	-	-	3.8	6.6*	6.3	6.6*	2.5	4.4	4.1	5.1*	-	-	-	-	-	-	-	1.9	3.3	3	3.3*	7.2
	1.5	-	-	-	-	-	-	-	-	3.5	6.5	5.9	7.7*	2.4	4.3	3.9	5.7*	-	-	-	-	-	-	-	1.8	3.2	2.9	3.6*	7.3
	0	-	-	-	-	-	-	-	-	3.4	6.4	5.7	8.1*	2.3	4.2	3.8	5.9*	-	-	-	-	-	-	-	1.8	3.3	3	4*	7.1
	-1.5	-	-	-	-	6.1	7.4*	7.4*	7.4*	3.4	6.4	5.7	7.9*	2.3	4.2	3.8	5.7*	-	-	-	-	-	-	-	2.1	3.8	3.4	5*	6.5
	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-piece offset Boom: 5.2m Dipper Arm: 2.45m Front dozer blade Rear outriggers	-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1*	3.1*	3.1*	3.1*	5.1
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.8	3.9*	3.9*	3.9*	-	-	-	-	-	-	-	2.4	2.7*	2.7*	2.7*	6.5
	4.5	-	-	-	-	-	-	-	-	4.3	4.8*	4.8*	4.8*	2.7	4.3*	4.3	4.3*	-	-	-	-	-	-	-	1.9	2.6*	2.6*	2.6*	7.2
	3	-	-	-	-	-	-	-	-	3.9	6.1*	6.1*	6.1*	2.6	4.5	4.1	4.8*	1.8	3.1	2.9	3.4*	1.7	2.6*	1.7	2.6*	2.6*	2.6*	7.6	
	1.5	-	-	-	-	-	-	-	-	3.5	6.6	5.9	7.4*	2.4	4.3	3.9	5.4*	1.7	3.1	2.8	4.2*	1.6	2.8*	1.6	2.8*	2.7	2.8*	7.7	
	0	-	-	-	-	-	-	-	-	3.3	6.3	5.7	8*	2.3	4.1	3.8	5.8*	1.7	3	2.7	3.2*	1.7	3	2.7	3.1*	3.1*	7.5		
	-1.5	-	-	-	-	6	6.8*	6.8*	6.8*	3.3	6.3	5.7	8*	2.2	4.1	3.7	5.8*	-	-	-	-	-	-	-	1.8	3.3	3	3.8*	7
2-piece offset Boom: 5.2m Dipper Arm: 2.6m Front dozer blade Rear outriggers	-3	-	-	-	-	-	-	-	-	3.4	6.4	5.8	7.1*	-	-	-	-	-	-	-	-	-	-	-	2.3	4.3	3.9	5*	5.9
	-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9*	2.9*	2.9*	2.9*	5.3
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.8	3.8*	3.8*	3.8*	-	-	-	-	-	-	-	2.3	2.5*	2.5*	2.5*	6.6
	4.5	-	-	-	-	-	-	-	-	4.3	4.7*	4.7*	4.7*	2.7	4.2*	4.2*	4.2*	-	-	-	-	-	-	-	1.9	2.4*	2.4*	2.4*	7.4
	3	-	-	-	-	-	-	-	-	3.9	6*	6*	6*	2.6	4.5	4.1	4.7*	1.8	3.1	2.9	3.6*	1.7	2.4*	1.7	2.4*	2.4*	2.4*	7.8	
	1.5	-	-	-	-	-	-	-	-	3.5	6.6	6	7.3*	2.4	4.3	3.9	5.4*	1.7	3.1	2.8	4.3*	1.6	2.6*	1.6	2.6*	2.6	2.6*	7.9	
	0	-	-	-	-	-	-	-	-	3.3	6.3	5.7	8*	2.3	4.1	3.8	5.8*	1.7	3	2.7	4*	1.6	2.9*	1.6	2.9*	2.7	2.9*	7.7	
-1.5	-	-	-	-	5.9	6.6*	6.6*	6.6*	3.3	6.3	5.7	8*	2.2	4.1	3.7	5.8*	-	-	-	-	-	-	-	1.8	3.2	2.9	3.5*	7.1	
-3	-	-	-	-	-	-	-	-	3.3	6.3	5.7	7.2*	2.3	4.2	3.8	5.1*	-	-	-	-	-	-	-	2.2	4	3.7	4.7*	6.2	
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes: 1. Working pressure with Power Boost = 37.5 MPa. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load.

LIFTING CAPACITY EW160E with heavy counterweight

At the arm end, without bucket and quick fit. For lifting capacity including bucket/quick fit, simply subtract actual weight of those parts from the following values. With heavy counterweight. Unit: 1 000kg

	Lifting point	Reach from machine centre (u = support up/d = support down)																											
		1.5 m				3.0 m				4.5 m				6.0 m				7.5 m				Max.							
		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Across UC		Along UC		Max.			
		u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	u	d	m			
2-piece offset Boom: 5.2m Dipper Arm: 2m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4*	4*	4*	4*	4.5
	6	-	-	-	-	-	-	-	-	4.3	4.6*	4.6*	4.6*	-	-	-	-	-	-	-	-	-	-	-	2.6	3	3.5*	3.5*	5.9
	4.5	-	-	-	-	7.4*	7.3*	7.4*	7.3*	4	4.5	5.4*	5.3*	2.5	2.9	4.2	4.6*	-	-	-	-	-	-	2	2.3	3.3*	3.3*	6.8	
	3	-	-	-	-	-	-	-	-	3.6	4.1	6.3	6.6*	2.4	2.7	4	5.1*	-	-	-	-	-	-	1.8	2	3	3.3*	7.2	
	1.5	-	-	-	-	-	-	-	-	3.3	3.8	5.9	7.7*	2.2	2.6	3.9	5.7*	-	-	-	-	-	-	1.7	1.9	2.9	3.6*	7.3	
	0	-	-	-	-	-	-	-	-	3.1	3.7	5.7	8.1*	2.1	2.5	3.8	5.9*	-	-	-	-	-	-	1.7	2	3	4*	7.1	
	-1.5	-	-	-	-	5.8	6.8	7.4*	7.4*	3.1	3.6	5.7	7.9*	2.1	2.5	3.8	5.7*	-	-	-	-	-	-	1.9	2.2	3.4	5*	6.5	
	-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-piece offset Boom: 5.2m Dipper Arm: 2.45m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1*	3.1*	3.1*	3.1*	5.1
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.7	3	3.9*	3.9*	-	-	-	-	-	-	2.3	2.6	2.7*	2.7*	6.5	
	4.5	-	-	-	-	-	-	-	-	4.1	4.6	4.8*	4.8*	2.6	2.9	4.3	4.3*	-	-	-	-	-	-	1.8	2.1	2.6*	2.6*	7.2	
	3	-	-	-	-	-	-	-	-	3.7	4.2	6.1*	6.1*	2.4	2.7	4.1	4.8*	1.7	1.9	2.8	3.4*	1.6	1.8	2.6*	2.6*	7.6			
	1.5	-	-	-	-	-	-	-	-	3.3	3.8	5.9	7.4*	2.2	2.6	3.9	5.4*	1.6	1.8	2.8	4.2*	1.5	1.8	2.6	2.8*	7.7			
	0	-	-	-	-	-	-	-	-	3.1	3.6	5.7	8*	2.1	2.4	3.7	5.8*	1.5	1.8	2.7	3.2*	1.5	1.8	2.7	3.1*	7.5			
	-1.5	-	-	-	-	5.6	6.7	6.8*	6.8*	3.1	3.6	5.6	8*	2.1	2.4	3.7	5.8*	-	-	-	-	-	-	1.7	2	3	3.8*	7	
	-3	-	-	-	-	-	-	-	-	3.1	3.7	5.7	7.1*	-	-	-	-	-	-	-	-	-	-	2.2	2.5	3.9	5*	5.9	
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2-piece offset Boom: 5.2m Dipper Arm: 2.6m Rear dozer blade	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9*	2.9*	2.9*	2.9*	5.3
	6	-	-	-	-	-	-	-	-	-	-	-	-	2.7	3	3.8*	3.8*	-	-	-	-	-	-	2.2	2.5	2.5*	2.5*	6.6	
	4.5	-	-	-	-	-	-	-	-	4.1	4.7*	4.7*	4.7*	2.6	2.9	4.2*	4.2*	-	-	-	-	-	-	1.8	2	2.4*	2.4*	7.4	
	3	-	-	-	-	-	-	-	-	3.7	4.2	6*	6*	2.4	2.8	4.1	4.7*	1.7	1.9	2.9	3.6*	1.6	1.8	2.4*	2.4*	7.8			
	1.5	-	-	-	-	-	-	-	-	3.3	3.8	5.9	7.3*	2.2	2.6	3.9	5.4*	1.6	1.8	2.8	4.4*	1.5	1.7	2.6	2.6*	7.9			
	0	-	-	-	-	-	-	-	-	3.1	3.6	5.7	8*	2.1	2.4	3.7	5.8*	1.5	1.8	2.7	4*	1.5	1.7	2.6	2.9*	7.7			
	-1.5	-	-	-	-	5.6	6.6*	6.6*	6.6*	3	3.6	5.6	8*	2.1	2.4	3.7	5.8*	-	-	-	-	-	-	1.7	1.9	2.9	3.5*	7.1	
	-3	-	-	-	-	-	-	-	-	3.1	3.6	5.7	7.2*	2.1	2.5	3.8	5.1*	-	-	-	-	-	-	2.1	2.4	3.6	4.7*	6.2	
-4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Notes: 1. Working pressure with Power Boost = 37.5 MPa. 2. The above values are in compliance with ISO standard 10 567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load, with the machine on firm, level ground. 3. Load capacities marked with an asterisk (*) are limited by machine's hydraulic lifting capacity rather than tipping load.

Equipment.

STANDARD EQUIPMENT

Engine

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

Intake air pre-heater

ECO- Modus

Fuel filter and water separator

Fuel filler pump: 50 l/min with automatic shut-off

Aluminium core radiator

Electric/Electronic control system

Contronics-computerized monitoring and diagnostic system

Master electrical disconnect switch

Adjustable automatic idling system

One-touch power boost

Adjustable monitor

Safety stop/start function

2 Frame mounted halogen lamps

Alternator, 120 A

Batteries, 2 x 12 V/140 Ah

Start motor, 24 V/5.5 kW

CareTrack via GSM or satellite

Rear view camera

Undercarriage

3 speeds (creep / offroad / road speed up to 35 km/h

Oscillating front axle $\pm 9^\circ$ with out mudguards/ 6° with mudguards

2-circuit travel brakes

Maintenance-free propeller shafts

Superstructure

LED Rear lights

Service walkway with anti-slip grating

Centralised lubricating point for slew bearing and boom

Digging equipment

Attachment points for extra hydraulics

Centralised lubrication point for arm and bucket

Cab and interior

Cup holder

Door locks

Safety glass, light tinted

Floor mat

Horn

Large storage area

Pull-up type front window

Removable lower windshield

Retractable seat belt

Windshield wiper with washer and intermittent feature

Sun shield, front, roof & rear

Bluetooth radio with USB port

Master ignition key

Multi function switch on LH Joystick

Hydraulic system

Load sensing hydraulic system

Cylinder cushioning

Cylinder contamination seals

Return filter of full flow type 2 000 h exchange interval

Pressure relief system (servo accumulator)

Proportional controlled visco-clutch cooling fan

Hose rupture valve for boom and arm

Hydraulic long life oil ISO VG 46

OPTIONAL EQUIPMENT

Engine

Diesel coolant heater with digital timer

Block heater, 240 V

Water separator with heater

Dust net

Reversible fan

Air inlet turbo precleaning system

Micro- mesh and sealing for engine compartment

Tropical cooling

Waste package

Electric / Electronic control system

Travel alarm

Rotating beacon

Extra work lights: (LED or halogen)

Service walkway 1 and counterweight 1

Boom-mounted 2

Cab front 2

Extra LED lights on arm and Cab (4)

Multi-channel electric centre passage

Anti-theft system

Tilting and rotating attachment preparation

Hydraulic system

Boom float function

Hydraulic oil, biodegradable ISO VG 32

Hydraulic oil, biodegradable ISO VG 46

Hydraulic long life oil ISO VG 32

Hydraulic long life oil ISO VG 68

Hydraulic equipment for:

Hammer & shears

Slope bucket/rotator

Grab/clam shell

Quick fit

Flow control

flow & pressure control

Boom suspension system

Cab and interior

Volvo Care Cab with openable PC roof hatch / ROPS

Tiltrotator Joystick

Proportional control joystick

On/off joystick

Falling object guard (FOG)

Cab mounted falling object protective structures (FOPS)

Rain shield, front

Side camera

Steelwrist tiltrotator preparation

Volvo Smart View system

Sunlight protection, roof hatch (steel)

Safety net for front window

Lower wiper

Anti-vandalism kit

Ashtray

Lighter

Seat:

Mechanical Fabric seat, with/or without heater

Airsuspension seat with heater and X isolator

Luxury operator seat with aico and wide armrest

Fixed cab risers

Hydraulic elevated cab

OPTIONAL EQUIPMENT

Undercarriage

Twin tires 10.00 - 20 / 11.00 - 20
Single tires 18R - 19.5 / 620/40-22.5
Stone protection rings
Solid rubber tires 10.00-20/11.00-20
Front dozer blade and rear outriggers
Rear dozer blade
Front outriggers and rear dozer blade
4 outriggers
Grab holder
Mudguards, front/rear
Tool box, left hand side/right hand side
Cruise control
Travel speed 20 km/h, 30 km/h, 35 km/h
Wide axle 2.75 m
Trailer Towing system
Automatic digging brake
Drawer type Toolbox

Digging equipment

Booms
5.0 m mono boom
5.1 m 2-piece boom
4.75 m mono offset boom
5.2 m 2-piece offset boom
Dipper arms
2.0 m, 2.45 m, 2.6 m, 3.1 m
2.95 m grab arm

Hydraulic quick fit

S1 system
S60 system
Universal system

Attachments

Buckets, direct fit and for Quick Couplers:
General Purpose bucket (GP)
Heavy Duty bucket
Lifting eye
Tilt rotator Steelwrist

Service

Tool kit, daily maintenance
Automatic Greasing System
Wheel chocks

Superstructure

Heavy counter weight
License plate preparation

Selection of Volvo optional equipment

Luxury seat**Boom float****LED working lights****Tilt rotator joysticks & monitor****Heavy counterweight**

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

VOLVO

Volvo Construction Equipment

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