

Volvo Excavators 31.3-36.8 t / 68,950-81,230 lb 253 hp

# EC300E

Volvo Construction Equipment



### Welcome to our world

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

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

### Working harder, working smarter

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

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



### Solutions for you

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

#### Designed for your business

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

#### There when you need us

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



### **BUILDING TOMORROW**

## Giving you more

The new and enhanced EC300E is packed with the latest technology to help you move more, for less. Features including the new Volvo engine, improved hydraulics, flow priority functions and optional Dig Assist apps deliver optimum productivity, efficiency and performance for a lower cost per ton.

#### More productivity

Get more done in the EC300E. An increase in engine power and improved hydraulic performance contributes to faster cycle times, while a 700 kg (1,542 lb) heavier counterweight provides superb stability and a 5% increase in across lifting capacity. Machine productivity is further enhanced by new motion priority functions, boom down speed control and improved jack up speed.



#### More control

Double your productivity with Volvo Active Control functions. The working day just got easier with automated boom and bucket movements, making the digging process more accurate and twice as fast. Simply set the grade from the Volvo Co-Pilot display, push the button and get to work – all controlled using a single lever.



#### More precision

Unlock the full potential of your machine's productivity with Dig Assist, powered by the 10" Volvo Co-Pilot display. Gain access to a set of smart apps, including Start, In-Field Design, 3D software packages, On-Board Weighing and Volvo Active Control, designed to optimize the digging process.



#### More responsiveness

With electric control joystick and full electric travel pedals, operators benefit from an improved response time. Machine controllability is enhanced further by Boom/Swing and Boom/Travel priority functions which enable operators to prioritize one function over another. Operators can also easily adjust the boom down speed, ideal for precision tasks which require optimum control.





# MORE FUEL EFFICIENCY

A range of features combine in the EC300E to deliver up to 10% improvement in fuel efficiency. The new D8M Volvo engine reduces rated rpm from 1800 down to 1600, while also delivering a 5% increase in power, and the intelligent new generation electro-hydraulic system provides on-demand flow and reduces internal losses in the hydraulic circuit. Classic Volvo features such as ECO mode and selectable work modes further contribute to outstanding fuel efficiency.

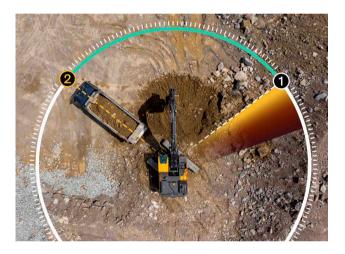
# For your comfort and safety

With a host of new and proven features including enhanced machine access, superior visibility, bouncing reduction technology and customizable settings, the upgraded EC300E delivers all the safety and comfort you would expect from your Volvo machine.

#### Know your limits

See it all

With Volvo Active Control, operators can easily set swing fence, height limit and depth limit from the Volvo Co-Pilot. This helps to avoid contact with side obstacles, overhead obstacles such as power lines and underground hazards such as pipes and cables.



#### A smoother shift

New boom and arm bouncing reduction technology reduces machine shock, resulting in a more comfortable and productive operator performance. Comfort Drive Control further helps to reduce fatigue by enabling operators to steer the machine using the joystick rollers instead of the pedals.



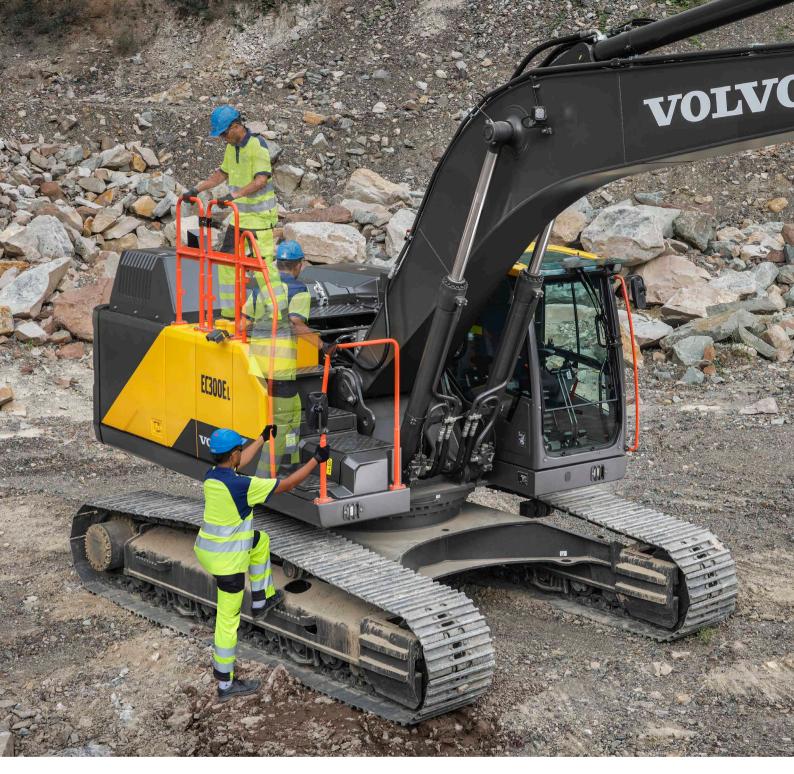
Operators can work in complete confidence thanks to Volvo Smart View. The system uses front, rear and side cameras to provide a real-time, overhead view of the machine during operation on the colour monitor. The result is safer machine rotation while working, especially in confined spaces.



#### How you like it

Get ready for the working day in no time with customizable settings, including preferred control patterns easily selected from the monitor. New 'long push' functionality on the joystick allows operators to set an additional shortcut function, and with the L8 joystick operators can create a shortcut to hydraulic priority functions.





# SAFETY, INSIDE AND OUT

Operators can access the upper structure with safety and confidence thanks to the new 3-point right-hand side access. Industry renowned features such as bolted anti-slip steps, high visibility handrails and spacious, ergonomic and low-noise Volvo Care Cab ensure the highest levels of operator comfort and safety.

# Boost versatility

Get the most out of your excavator with our range of purpose-built attachments, designed to work in perfect harmony with your machine. Customize your EC300E with quality Volvo attachments, matched to your needs, to form one solid and reliable unit that delivers improved cycle times and increased fuel efficiency.

#### Buckets of productivity

#### Take a break

Volvo buckets are the perfect tool to achieve maximum productivity when digging and re-handling in all conditions. Whether you are working with soft, medium or hard materials, our buckets deliver long life and feature original Volvo wear parts. Heavy-Duty variants provide optimum performance when digging in compact materials. Available with a full range of tools, the hydraulic breakers are designed to be a perfect match for your Volvo. Powered by the machine's constant auxiliary hydraulic flow, the breakers are configured to the specific weights of Volvo machines and are fully compatible with Volvo guick couplers for swift, safe and simple attachment changes.





#### Dig at any angle

Boost productivity and dig at any angle. Compatibility with Steelwrist<sup>®</sup>, Engcon<sup>®</sup> and Rototilt<sup>®</sup> tiltrotators provides the flexibility needed for precise construction jobs. The factory-fitted preparation system gives you the power to control both the excavator and tiltrotator using the original joysticks, with the information presented on the main display.

#### Stay cool

A new cooling layout increases hydraulic attachment cooling capacity by 10%, resulting in an improved attachment performance.



Steelwrist® : Steelwrist is a registered trademark of Steelwrist AB / Engcon® : Engcon is a registered trademark of Engcon Holding AB / Rototilt® : Rototilt is a registered trademark of Rototilt Group AB



# EASILY ATTACH

Discover our range of Volvo quick couplers, including the new Steelwrist<sup>®</sup> Auto Connect Quick Coupler – enabling the quick and easy connection of hydraulic attachments from the comfort and safety of the cab. The quick coupler delivers 300 liters per minute of hydraulic flow directly to the attachment.

### Lower maintenance costs

Durable by design, the new EC300E is ready to take on the toughest applications. The machine delivers outstanding levels of reliability and with features including engine auto-regeneration, reinforced components and reduced maintenance requirements, you can count on the EC300E to maximize uptime while keeping maintenance costs to a minimum.

#### Less service requirements

The new electro-hydraulic system requires less hoses, therefore reducing the need for couplings, minimizing maintenance requirements and increasing reliability. Engine oil and engine oil filter change intervals have been doubled to 1000 hours, further ensuring the time and cost spent on maintenance is kept to a minimum.

#### Easier UREA filling

The new splash guard on the UREA tank makes filling quicker and easier, while also reducing the risk of spillage and subsequent corrosion.





#### Up to the challenge

Built to deliver outstanding strength and durability, this heavy-duty production machine features a robust undercarriage with reinforced idle frame, track links and bottom rollers. Reinforced bucket linkage with steel strip, optional heavy-duty superstructure undercover and easily replaced bolt-on wear plates at the arm end ensure the excavator succeeds even on the toughest of jobsites.





# POWERED BY EXCELLENCE

With impressively high torque at low rpm, the new D8M Volvo engine builds on generations of proven Volvo engine technology to deliver superior reliability and performance. The engine features auto-regeneration technology, while auto-engine idle and auto-engine shutdown reduce unnecessary fuel consumption and wear.

## Boost your profits

A world-class machine is just the start of how Volvo strives to add value you to your operation. Our portfolio of services is designed to complement your machine's performance and boost your profitability.

#### Every part counts

Maintain productivity and machine uptime with our range of readily available, tested and approved parts – all backed by Volvo warranty. Only by using Genuine Volvo Parts, can you protect your investment, extend machine life and guarantee long-lasting performance.

#### Maintain performance

Stay on track with planned servicing and keep your asset covered with our range of flexible maintenance and repair options.



#### **Powerful reporting**

Keep track of your fleet with a comprehensive portfolio of reports, designed to help you take action and boost the profitability of your business. Powered by the CareTrack telematics system, Productivity Report, Fuel Efficiency Report & Summary Report each provide an easy-to-digest overview of your machine's condition and performance.





#### Machine monitoring made easy

Maximize machine uptime and reduce repair costs with the CareTrack telematic system. Choose to keep track of your machine yourself or let us take care of it with ActiveCare Direct. Our Volvo Uptime Center will provide 24/7 machine monitoring, supplying weekly reports and notifying you should preventive maintenance action be required.





# GET THE MOST FROM YOUR MACHINE

While reliable and efficient machines of course play a vital role in reducing costs, enhancing safety and maximizing productivity, it is ultimately the performance of the operator that really makes the difference. We offer a wide range of training initiatives to help operators unlock the full capability of their Volvo excavator.

## Move more for less

### **Boost your productivity**

- 700kg (1,542 lb) heavier counterweight: 5% increase in across lifting capacity **NEW**
- Improved response time NEW
- Boom/Swing and Boom/Travel priority
  NEW
- Adjustable boom down speed NEW
- Dig Assist apps, powered by Volvo Co-Pilot
- Volvo Active Control: double your productivity

### Lower maintenance costs

- Less hydraulic hoses: reduced need for couplings/oil NEW
- Splash guard on the UREA tank
  NEW
- 1000hr engine oil and engine oil filter change intervals **NEW**
- Engine auto-regeneration NEW
- Grouped filters, accessed from ground-level
- Reinforced idle frame, track links, bottom rollers

### **Comfortable operation**

- Boom and arm bouncing reduction
  **NEW**
- Comfort Drive Control: joysticks steering NEW
- Additional 'long push' shortcut button
  NEW
- Selectable control pattern
- Volvo Care Cab: highest levels of comfort

### Volvo Services: boost your profits

- Operator training program
- Productivity Report, Fuel Efficiency Report, Summary Report

EC300E

VOLVO

- ActiveCare Direct: 24/7 machine monitoring
- Genuine Volvo Parts, with 24-hour delivery guarantee

16

• Maintenance and repair agreements

### Safety, inside and out

- 3-point right-hand side access to the upper structure **NEW**
- Bolted anti-slip steps, high visibility handrails
- ROPS cab, low-noise/vibration
- Rear and side cameras, Volvo Smart View
- Swing fence, height/depth limits functions (Volvo Active Control)

### **Boost versatility**

- Steelwrist<sup>®</sup> Auto Connect Quick Coupler NEW
- Factory-fitted preparation for Steelwrist<sup>®</sup>, Engcon<sup>®</sup>, Rototilt<sup>®</sup> tiltrotator control systems **NEW**
- 10% more hydraulic attachment cooling capacity NEW
- Range of matched Volvo buckets and breakers
- Attachment Management System: 32 attachments stored

For a dramatic improvement in fuel efficiency, look no further than the EC300E Hybrid.

### Up to 10% better fuel efficiency

- Volvo D8M engine NEW
- New generation electro-hydraulic system **NEW**
- ECO mode
- Selectable work modes
- Boom float function
- Auto-engine idle and shutdown





# Volvo EC300E in detail

#### Engine

The next-generation Volvo diesel engine uses Volvo Advanced Combustion Technology (V-ACT) to deliver lower emissions, superior performance and fuel efficiency. The engine uses precise, highpressure fuel injectors, turbo charger and intercooler, and electronic engine controls to optimize machine performance.

Volvo	D8M
r/min (r/s)	1,600 (26.7)
kW (hp)	188 (252)
kW (hp)	189 (253)
Nm (ft lbf)	1,290 (951)
r/min (r/s)	1,400 (23.3)
	6
l (in³)	7.7 (470)
mm (in)	110 (4.33)
mm (in)	135 (5.3)
	r/min (r/s) kW (hp) kW (hp) Nm (ft lbf) r/min (r/s) I (in <sup>3</sup> ) mm (in)

#### Electrical system

High-capacity electrical system that is well protected. Waterproof doublelock 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	170
Alternator	V/A	28 / 120
Start motor	V - kW	24 - 5.5

#### Undercarriage

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

Track shoes		2 x 50
Link pitch	mm (in)	203.2 (7.9)
Shoe width	mm (in)	600/700/800/900 (23.6/27.6/31.5/35.4)
Shoe width, triple grouser	mm (in)	600/700/800/900 (23.6/27.6/31.5/35.4)
Shoe width, triple grouser (HD)	mm (in)	600 (23.6)
Shoe width, double grouser	mm (in)	700 (27.6)
Bottom rollers		2 x 9
Top rollers		2 x 2

#### Swing system

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

n (ft lbf)	114.8 (84,655)
r	η (π παι π)

#### Travel System

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

Max. drawbar pull	kN (lbf)	248 (55,663)
Max. travel speed (low)	km/h (mi/h)	3.6 (2.2)
Max. travel speed (high)	km/h (mi/h)	5.4 (3.4)
Gradeability	o	35

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 all-round 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.

Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO2-eq.

#### Hydraulic system

The hydraulic system, also known as the "Automatic Sensing Work Mode," is designed for high-productivity, high-digging capacity, high-maneuvering precision and excellent fuel economy. The summation system, boom, arm and swing priority along with boom, arm and bucket regeneration provides optimum performance.

Main pump, Type 2 x Va	ariable displacement axial	piston	pumps	
A 4 6		0	070 /0	-

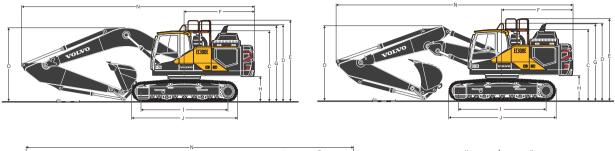
Maximum flow	l/min (gal/min)	2 x 276 (2 x 72.9)
Pilot pump, Type Gear Pump		
Maximum flow	l/min (gal/min)	20.3 (5.4)
Relief value setting pressure		
Implement	MPa (psi)	33.3 / 36.3 (4,830 / 5,265)
Travel circuit	MPa (psi)	36.3 (5,265)
Slew circuit	MPa (psi)	28.9 (4,192)
Pilot circuit	MPa (psi)	3.9 (566)

Hydraulic Motors

**Travel**: Variable displacement axial piston motor with mechanical brake **Swing**: Fixed displacement piston motor with mechanical brake

Hydraulic Cylinders		
Mono boom		2
Bore x Stroke	ø x mm (ø x in)	140 x 1 480 (5.5 x 58.3)
2 piece boom		2
Bore x Stroke	ø x mm (ø x in)	140 x 1 480 (5.5 x 58.3)
Arm		1
Bore x Stroke	ø x mm (ø x in)	150 x 1 745 (5.9 x 68.7)
Bucket		1
Bore x Stroke	ø x mm (ø x in)	140 x 1 140 (5.5 x 44.9)
Bucket for LR boom		1
Bore x Stroke	ø x mm (ø x in)	100 x 865 (3.9 x 34.1)
Service Refill		
Fuel tank	l (gal)	472 (124.7)
DEF/AdBlue <sup>®</sup> tank	l (gal)	50 (13)
Hydraulic system, total	l (gal)	385 (101.7)
Hydraulic tank	l (gal)	215 (56.8)
Engine oil	l (gal)	30 (7.9)
Engine coolant	l (gal)	44 (12)
Slew reduction unit	l (gal)	6.1 (1.6)
Travel reduction unit	l (gal)	2 x 6 (2 x 1.6)
Sound Level		
Sound pressure level in cab accord	ing to ISO 639	6
L <sub>pA</sub>	dB	70

P		
External sound level accordin 2000/14/EC	ng to ISO 6395 and EU Noise Directive	9
Lwa	dB	104





Description	U	Unit EC300EL											EC300ELR			
Boom	m, 1	ft in	1	6.2, 2			6.2, 20'4" 2-piece					10.2, 33'6"				
Arm		ft in	2.55	8'4"	3.05	10'0"	3.7	12'2"	2.55	8'4"	3.05	10'0"	3.7	12'2"	7.9	25'11"
A. Overall width of upper structure	mm	ft in	2,890	9'6"	2,890	9'6"	2,890	9'6"	2,890	9'6"	2,890	9'6"	2,890	9'6"	2,890	9'6"
B. Overall width	mm	ft in	3,190	10'6"	3,190	10'6"	3,190	10'6"	3,190	10'6"	3,190	10'6"	3,190	10'6"	3,190	10'6"
C. Overall height of cab	mm	ft in	3,110	10'2"	3,110	10'2"	3,110	10'2"	3,110	10'2"	3,110	10'2"	3,110	10'2"	3,110	10'2"
D. Overall height of handrail	mm	ft in	3,360	11'0"	3,360	11'0"	3,360	11'0"	3,360	11'0"	3,360	11'0"	3,360	11'0"	3,360	11'0"
E. Overall height of guardrail (Unfolded)	mm	ft in	3,570	11'9"	3,570	11'9"	3,570	11'9"	3,570	11'9"	3,570	11'9"	3,570	11'9"	3,570	11'9"
E'. Overall height of handrail/ guardrail (Folded)	mm	ft in	3,090	10'2"	3,090	10'2"	3,090	10'2"	3,090	10'2"	3,090	10'2"	3,090	10'2"	3,090	10'2"
F. Tail swing radius	mm	ft in	3,120	10'3"	3,120	10'3"	3,120	10'3"	3,120	10'3"	3,120	10'3"	3,120	10'3"	3,155	10'4"
G. Overall height of diffuser	mm	ft in	3,200	10'6"	3,200	10'6"	3,200	10'6"	3,200	10'6"	3,200	10'6"	3,200	10'6"	3,200	10'6"
H. Counterweight clearance *	mm	ft in	1,105	3'8"	1,105	3'8"	1,105	3'8"	1,105	3'8"	1,105	3'8"	1,105	3'8"	1,105	3'8"
I. Tumbler length	mm	ft in	4,015	13'2"	4,015	13'2"	4,015	13'2"	4,015	13'2"	4,015	13'2"	4,015	13'2"	4,015	13'2"
J. Track length	mm	ft in	4,865	16'0"	4,865	16'0"	4,865	16'0"	4,865	16'0"	4,865	16'0"	4,865	16'0"	4,865	16'0"
K. Track gauge	mm	ft in	2,590	8'6"	2,590	8'6"	2,590	8'6"	2,590	8'6"	2,590	8'6"	2,590	8'6"	2,590	8'6"
L. Shoe width	mm	ft in	600	24"	600	24"	600	24"	600	24"	600	24"	600	24"	600	24"
M. Min. ground clearance *	mm	ft in	475	1'7"	475	1'7"	475	1'7"	475	1'7"	475	1'7"	475	1'7"	475	1'7"
N. Overall length	mm	ft in	10,605	34'10"	10,500	34'5"	10,540	34'7"	10,605	34'10"	10,535	34'7"	10,535	34'7"	14,565	47'9"
O. Overall height of boom	mm	ft in	3,470	11'5"	3,345	11'0"	3,580	11'9"	3,385	11'1"	3,325	10'11"	3,605	11'10"	-	-

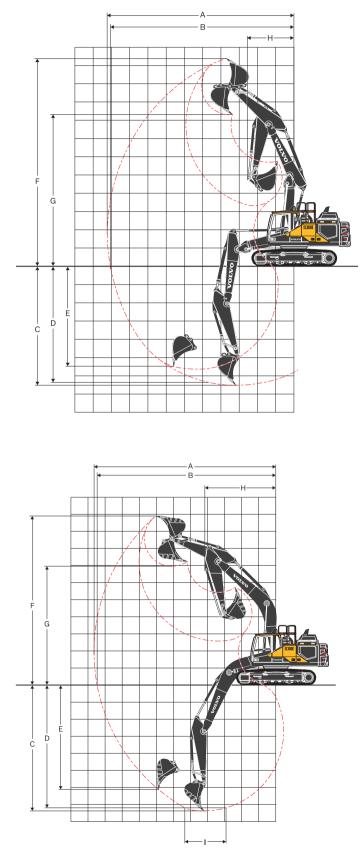
\* Without shoe grouser

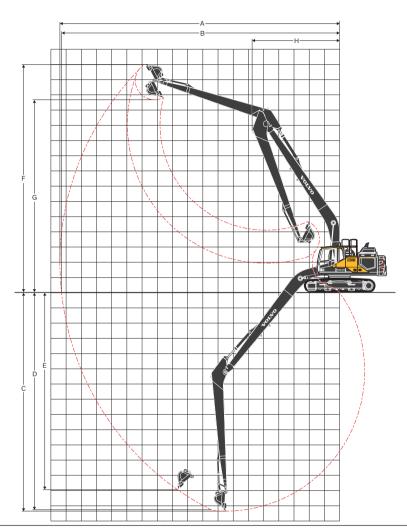
' 2-piece boom

-	nit	1									
	Unit mono m, ft in 6.2, 20'4" GP 6.2, 20'4" HD		Unit mono				2-p	oiece	Long-Reach		
m, 1	ft in	6.2, 20	20'4" GP 6.2, 20'4" HD		0'4" HD	6.2,	20'4"	10.2, 33'6"			
mm	ft in	6,425	21'1"	6,425	21'1"	6,425	21'1"	10,425	34'2"		
mm	ft in	1,780	5'10"	1,780	5'10"	1,595	5'3"	-	-		
mm	ft in	1,665	5'6"	1,665	5'6"	1,550	5'1"	1,580	5'2"		
mm	ft in	765	2'6"	765	2'6"	770	2'6"	765	2'6"		
kg	lb	2,505	5,520	2,735	6,030	3,375	7,440	3,380	7,450		
	mm mm mm kg	mm ft in mm ft in mm ft in kg lb	mm      ft in      1,780        mm      ft in      1,665        mm      ft in      765        kg      lb      2,505	mm      ft in      1,780      5'10"        mm      ft in      1,665      5'6"        mm      ft in      765      2'6"	mm      ft in      1,780      5'10"      1,780        mm      ft in      1,665      5'6"      1,665        mm      ft in      765      2'6"      765        kg      lb      2,505      5,520      2,735	mm      ft in      1,780      5'10"      1,780      5'10"        mm      ft in      1,665      5'6"      1,665      5'6"        mm      ft in      765      2'6"      765      2'6"        kg      lb      2,505      5,520      2,735      6,030	mm      ft in      1,780      5'10"      1,780      5'10"      1,595        mm      ft in      1,665      5'6"      1,665      5'6"      1,550        mm      ft in      765      2'6"      765      2'6"      770        kg      lb      2,505      5,520      2,735      6,030      3,375	mm      ft in      1,780      5'10"      1,780      5'10"      1,595      5'3"        mm      ft in      1,665      5'6"      1,665      5'6"      1,550      5'1"        mm      ft in      765      2'6"      765      2'6"      770      2'6"        kg      lb      2,505      5,520      2,735      6,030      3,375      7,440	mm      ft in      1,780      5'10"      1,780      5'10"      1,595      5'3"      -        mm      ft in      1,665      5'6"      1,665      5'6"      1,550      5'1"      1,580        mm      ft in      765      2'6"      765      2'6"      770      2'6"      765        kg      lb      2,505      5,520      2,735      6,030      3,375      7,440      3,380		

Arm	/m													
Description	U	nit												
Arm	n	n	2.55, 8'4" HD		3.05, 10	3.05, 10'0" GP		3.05, 10'0" HP		3.7, 12'2" GP		7.9, 25'11" LR		
Length	mm	ft in	3,720	12'2"	4,145	13'7"	4,145	13'7"	4,800	15'9"	9,055	29'8"		
Height	mm	ft in	1,005	3'4"	1,010	3'4"	1,010	3'4"	1,005	3'4"	1,095	3'7"		
Width	mm	ft in	560	1'10"	560	1'10"	560	1'10"	560	1'10"	435	1'5"		
Weight	kg	lb	1,450	3,200	1,510	3,330	1,570	3,460	1,630	3,590	1,770	3,900		

\* Includes cylinder, linkage and pin





WORKING	RANGES																	
Description			U	nit						EC30	DOEL						EC30	OELR
Boom			m, 1	ft in		6	.2, 20'	4" mon	0			6.	2, 20'4	" 2-pie	ce		10.2,	33'6"
Arm			m	ft in	2.55	8'4"	3.05	10'0"	3.7	12'2"	2.55	8'4"	3.05	10'0"	3.7	12'2"	7.9	25'11'
A. Max. dig	ging reach		mm	ft in	10,180	33'5"	10,710	35'2"	11,310	37'1"	10,250	33'8"	10,780	35'4"	11,390	37'4"	18,590	60'12"
B. Max. dig	ging reach on g	ground	mm	ft in	9,970	32'9"	10,520	34'6"	11,130	36'6"	10,040	32'11"	10,580	34'9"	11,210	36'9"	18,480	60'8"
C. Max. dig	ging depth		mm	ft in	6,840	22'5"	7,340	24'1"	7,990	26'3"	6,210	20'4"	6,730	22'1"	7,370	24'2"	14,750	48'5"
D. Max.digg 8'0" level)	ging depth (I =	2.44 m /	mm	ft in	6,600	21'8"	7,150	23'5"	7,830	25'8"	6,100	20'0"	6,630	21'9"	7,280	23'11"	14,650	48'1"
E. Max. vert	tical wall diggir	ng depth	mm	ft in	5,320	17'5"	6,080	19'11"	6,680	21'11"	5,040	16'6"	5,630	18'6"	6,240	20'6"	13,630	44'9"
F. Max. cutt	ing height		mm	ft in	9,560	31'4"	9,980	32'9"	10,260	33'8"	11,550	37'11"	12,070	39'7"	12,570	41'3"	14,940	49'0"
G. Max. dur	nping height		mm	ft in	6,680	21'11"	7,040	23'1"	7,330	24'1"	8,360	27'5"	8,850	29'0"	9,360	30'9"	12,600	41'4"
H. Min. fron	nt swing radius		mm	ft in	4,220	13'10"	4,180	13'9"	4,240	13'11"	2,750	9'0"	2,580	8'6"	2,770	9'1"	6,190	20'4"
DIGGING F	ORCES WITH	DIRECT FIT	BUC	KET														
Bucket radi	us		mm	in	1,624	64"	1,624	64"	1,624	64"	1,624	64"	1,624	64"	1,624	64"	1,248	49"
	Normal	SAE J1179	kN	lb	165	37,050	165	37,050	165	37,040	165	37,050	165	37,050	165	37,040	69	15,580
Breakout	Power boost	SAE JIII9	kN	lb	179	40,320	179	40,320	179	40,310	179	40,320	179	40,320	179	40,310	69	15,580
force	Normal	ISO 6015	kN	lb	190	42,680	190	42,680	190	42,670	190	42,680	190	42,680	190	42,670	78	17,600
	Power boost	150 6015	kΝ	lb	207	46,450	207	46,450	207	46,440	207	46,450	207	46,450	207	46,440	78	17,600
	Normal	SAE J1179	kN	lb	158	35,500	133	29,790	116	26,090	158	35,500	133	29,790	116	26,090	51	11,550
Tearout	Power boost	SAE JIII9	kΝ	lb	172	38,630	144	32,420	126	28,400	172	38,630	144	32,420	126	28,400	51	11,550
force	Normal	ISO 6015	kN	lb	163	36,580	136	30,550	118	26,630	163	36,580	136	30,550	118	26,630	52	11,660
	Power boost	130 0015	kN	lb	177	39,810	148	33,250	129	28,980	177	39,810	148	33,250	129	28,980	52	11,660
Rotation an	gle, bucket			D	1	79	1	79	17	79	17	79	1	79	17	79	17	78

Description	Shoe v	vidth	Operatin	g weight	Ground	pressure	Overal	l width	Operatin	g weight	Ground	pressure	Overal	l width
	mm	in	kg	lb	kPa	psi	mm	in	kg	lb	kPa	psi	mm	in
EC300EL														
				9 kg (2,67	70 lb) / 1.:	3.05 m (1 32 m <sup>3</sup> (34 lb) counte	9 gal) bu			(20'4") bo 9 kg (2,67 6,200 kg	70 lb) / 1.3		9 gal) bu	
	600	24	30,640	67,560	59.1	8.6	3,190	10'6"	30,940	68,220	59.7	8.7	3,190	10'6"
	600 (HD)	24	30,860	68,050	59.5	8.6	3,190	10'6"	31,150	68,690	60.1	8.7	3,190	10'6"
Triple grouser	700	28	31,230	68,860	51.6	7.5	3,290	10'10"	31,520	69,500	52.1	7.6	3,290	10'10"
grouser	800	31	31,590	69,660	45.7	6.6	3,390	11'1"	31,880	70,300	46.1	6.7	3,390	11'1"
	900	35	31,950	70,450	41.1	6.0	3,490	11'5"	32,240	71,090	41.5	6.0	3,490	11'5"
Double grouser	700	28	31,420	69,280	52.0	7.5	3,290	10'10"	31,710	69,920	52.4	7.6	3,290	10'10"
				9 kg (2,6	70 Ìb) / 1.:	e), 3.05 m 32 m³ (34 Ib) counte	9 gal) buc			0'4") booi 9 kg (2,6 6,200 k	70 lb) / 1.3		9 gal) buc	
	600	24	31,230	68,860	60.3	8.7	3,190	10'6"	31,610	69,700	61.0	8.8	3,190	10'6"
	600 (HD)	24	31,450	69,350	60.7	8.8	3,190	10'6"	31,820	70,160	61.4	8.9	3,190	10'6"
Triple grouser	700	28	31,820	70,160	52.6	7.6	3,290	10'10"	32,190	70,980	53.2	7.7	3,290	10'10"
grouser	800	31	32,180	70,960	46.6	6.7	3,390	11'1"	32,550	71,770	47.1	6.8	3,390	11'1"
	900	35	32,540	71,750	41.9	6.1	3,490	11'5"	32,910	72,570	42.3	6.1	3,490	11'5"
Double grouser	700	28	32,010	70,580	52.9	7.7	3,290	10'10"	32,380	71,400	53.5	7.8	3,290	10'10"
EC300ELR														

				n (33'6") k 3 kg (1,050 6,900 kg	0.5 (dl C		) gal) bucl	
	600	24	31,770	70,050	61.3	8.9	3,190	10'6"
Triple	600 (HD)	24	31,980	70,520	61.7	8.9	3,290	10'10"
grouser	800	31	32,710	72,130	47.3	6.9	3,390	11'1"
	900	35	33,080	72,940	42.5	6.2	3,490	11'5"

											EC3	OOEL		
		Capa	acity	Cutting	y width	We	ight	Teeth	600 mm	(24") sho	e, 6,200	kg (13,670	D lb) coun	terweight
Buck	Bucket type	Capt	acity	Outing	y wiath		igin	reetin	6.2 m	(20'4") GF	Boom		95 m (19'( piece Boo	,
		L	yd <sup>3</sup>	mm	in	kg	lb	EA	2.55 m (8'4")	3.05 m (10'0")	3.7 m (12'2")	2.55 m (8'4")	3.05 m (10'0")	3.7 m (12'2")
		550	0.72	600	23.6	883	1,946	3	С	С	С	С	С	С
		660	0.86	750	29.5	867	1,912	3	С	С	С	С	С	С
		770	1.01	900	35.4	996	2,197	4	С	С	С	С	С	С
		950	1.24	1,090	42.9	1,025	2,260	4	С	С	С	С	С	С
		1,140	1.49	1,240	48.8	1,192	2,629	5	С	С	С	С	С	С
	General purpose	1,320	1.73	1,390	54.7	1,209	2,666	5	С	С	С	С	С	С
	purpose	1,450	1.90	1,490	58.7	1,270	2,799	5	С	С	С	С	С	С
		1,510	1.98	1,540	60.6	1,314	2,897	5	С	С	С	С	С	С
		1,760	2.30	1,740	68.5	1,448	3,193	6	С	С	В	С	С	В
Direct fit bucket		1,930	2.52	1,840	72.4	1,529	3,370	6	С	С	В	С	В	А
DUCKEL		2,060	2.69	1,950	76.8	1,590	3,506	6	С	В	А	С	В	А
		550	0.72	600	23.6	881	1,942	3	D	D	D	D	D	D
		660	0.86	750	29.5	920	2,029	3	D	D	D	D	D	D
		1,140	1.49	1,240	48.8	1,214	2,677	5	D	D	D	D	D	D
	Heavy	1,270	1.66	1,405	55.3	1,336	2,945	5	D	D	D	D	D	D
	duty	1,320	1.73	1,390	54.7	1,301	2,868	5	D	D	D	D	D	D
		1,510	1.98	1,540	60.6	1,387	3,058	5	D	D	D	D	D	С
		1,690	2.21	1,690	66.5	1,485	3,274	5	D	D	В	D	D	В
		1,930	2.52	1,840	72.4	1,623	3,578	6	С	В	А	С	В	А
		550	0.72	600	23.6	883	1,946	3	С	С	С	С	С	С
		660	0.86	750	29.5	867	1,912	3	С	С	С	С	С	С
		770	1.01	900	35.4	996	2,197	4	С	С	С	С	С	С
		950	1.24	1,090	42.9	1,025	2,260	4	С	С	С	С	С	С
		1,140	1.49	1,240	48.8	1,192	2,629	5	С	С	С	С	С	С
	General purpose	1,320	1.73	1,390	54.7	1,209	2,666	5	С	С	С	С	С	С
	purpose	1,450	1.90	1,490	58.7	1,270	2,799	5	С	С	С	С	С	В
Dive et fit		1,510	1.98	1,540	60.6	1,314	2,897	5	С	С	В	С	С	В
Direct fit bucket		1,760	2.30	1,740	68.5	1,448	3,193	6	С	В	A	С	В	А
(UQC		1,930	2.52	1,840	72.4	1,529	3,370	6	В	В	А	В	А	х
interface)		2,060	2.69	1,950	76.8	1,590	3,506	6	В	А	х	В	А	х
		550	0.72	600	23.6	881	1,942	3	D	D	D	D	D	D
		660	0.86	750	29.5	920	2,029	3	D	D	D	D	D	D
		1,140	1.49	1,240	48.8	1,214	2,677	5	D	D	D	D	D	D
	Heavy	, 1,320	1.73	1,390	54.7	1,301	2,868	5	D	D	С	D	D	С
	duty	1,510	1.98	1,540	60.6	1,387	3,058	5	D	D	В	D	С	В
		, 1,690	2.21	, 1,690	66.5	, 1,485	3,274	5	D	В	А	С	В	А
		1,930	2.52	1,840	72.4	1,623	3,578	6	В	А	х	В	А	х

For long reach boom and arm configuration, Volvo recommends to use 0.57 m<sup>3</sup> (0.75 yd<sup>3</sup>) bucket Please consult with your Volvo dealer for the proper match of buckets and attachments to suit the application. The recommendations are given as a guide only, based on typical operation conditions. Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Ma	ximum materal de	ensity	
	kg/m³	lb/yd <sup>3</sup>	
А	1,200~1,300	2,000~2,200	Coal, Caliche, Shale
В	1,400~1,600	2,300~2,700	Wet earth and clay, Limestone, Sandstone
С	1,700~1,800	2,800~3,100	Granite, Wet sand, Well blasted rock
D	> 1,900	> 3,200	Wet mud, Iron ore
Х	Not recommend	ed	

#### LIFTING CAPACITY EC300EL

Lifting capacity at the arm end	without bucket.
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	T .	g bucket, 1.5 m	n, 5 ft	1	, 10 ft		, 15 ft	1	, 20 ft	1	, 25 ft	1	, 30 ft	1	lax. Read	
	Lifting Point	Along	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along	Across UC	Along UC	Across UC	Max
	7.5 m kg		00	00	00	00	00	*7,740	*7,740	00	00	00	00	*7,900	7,640	6.52
	25 ft lb							*17,180	*17,180					*17,450	17,300	21.04
	6.0 m kg							*8,080	*8,080	*7,890	6,040			*7.900	5,970	7.55
	20 ft lb							*17,660	*17,660	1,000	0,010			*17,420	13,320	24.60
	4.5 m kg					*11.410	*11,410	*9,190	8,330	*8,220	5,930			7,940	5,160	8.18
Boom :	15 ft lb					,	,	*19,940	17,970	*17,970	12,770			17,600	11,440	26.76
6.2 m , 20'34"	3.0 m kg					,	,	*10,630	7,930	*8,890	5,740			7,370	4,760	8.50
Arm :	10 ft lb					*31,310	,	,		19,250	-			,		27.86
2.55 m, 8'4"						,	,	*23,000	,	,	12,390			16,280	10,520	
Shoe:	1.5 m kg					*16,750	,	*11,900	7,590	8,740	5,570			7,220	4,630	8.54
600 mm, 24"	5 ft lb					*36,130	24,460	*25,760	16,380	18,830	12,020			15,910	10,220	28.0
CWT:	0 m kg					*17,340	11,140	12,030	7,390	8,610	5,450			7,440	4,750	8.31
6,200 kg,	Oft Ib			140.000		*37,580	23,990	25,890	15,940	18,560	11,770			16,410	10,480	27.2
3,670 lb	-1.5 m kg				*12,880		11,150	11,970	7,340	8,590	5,430			8,170	5,190	7.78
	-5 ft lb				,	*36,700	,	25,760	15,830	18,530	11,740			18,050	11,470	25.48
	-3.0 m kg			,		*15,540	11,310	*11,740	7,430					9,850	6,200	6.88
	-10 ft lb				,	*33,640	24,350	*25,310	16,040					*21,770	13,770	22.4
	-4.5 m kg	1		*16,820	*16,820	*12,520	11,670							*10,110	8,870	5.44
	-15 ft lb			*36,120	*36,120	*26,730	25,170							*22,290		17.54
	7.5 m kg	1												*6,380	*6,380	7.20
	25 ft lb													*14,340	*14,340	23.3
	6.0 m kg	1								*7,240	6,130			*6,120	5,320	8.15
	20 ft lb									*15,950	13,210			*13,690	11,880	26.5
	4.5 m kg	1				*10,280	*10,280	*8,540	8,440	*7,710	5,990			*6,120	4,680	8.73
Boom :	15 ft lb							*18,510	18,210	*16,850	12,910			*13,640	10,370	28.5
6.2 m , 20'34"	3.0 m kg	1				*13,480	12,210	*10,050	,	*8,470	5,780	*6,600	4,370	*6,330	4,350	9.03
Arm :	10 ft lb					*28,820		*21,680	17,250	*18,410	12,450	,	,	*14,080	,	29.6
3.05 m, 10'0"	1.5 m kg					*16,040		*11,460	7,640	8,760	5,580	6,670	4,290	6,600	4,240	9.07
Shoe:	5 ft lb					*34,380	,	*24,710	16,380	18,840	12,000	-,	.,	14,540	9,340	29.76
500 mm, 24"	0 m kg					*17,170	11,140	12,040	7,390	8,600	5,430			6,770	4,330	8.85
CWT:	Oft lb					*36,920	,	25,780	15,820	18,470	11,670			14,920	9,530	29.0
6,200 kg,	-1.5 m kg		*7,610	*11,750	*11,750	*17,140	11,070	11,920	7,290	8,530	5,370			7,330	4,660	8.36
13,670 lb	-5 ft lb	, ,	,	*26,870	,	,		25,520	15,600	18,340	11,550			16,170	10,280	27.38
	-3.0 m kg	,	,	,	,	,	,	11,970	7,330	· ·				8,560	5,420	7.53
			,	,	,	,	11,170	,	,	8,610	5,440			,	,	
		*31,360	-31,300	,	,	,	,	25,650	15,710					18,970	11,990	24.6
	-4.5 m kg			,	,	*13,800	,	*10,080	7,560					*9,460	7,180	6.24
	-15 ft lb			^40,570	^40,570	^29,460	24,520	*21,200	16,310	*0.000	0.000				16,080	
	7.5 m kg									*6,290	6,220			*4,930	*4,930	7.96
	25 ft lb									*12,940	*12,940			,	*10,930	
	6.0 m kg									*6,390	6,170			*4,750	4,660	8.82
	20 ft lb									*14,060	13,270			*10,490	,	28.7
	4.5 m kg	1						*7,580	*7,580	*6,980	6,010	*6,390	4,450	*4,750	4,150	9.36
	15 ft lb								*16,450	*15,260	12,940	*12,690	9,550	*10,460	· · · ·	30.6
Boom :	3.0 m kg	1				*11,960	*11,960	*9,180	8,110	*7,840	5,790	6,740	4,350	*4,900	3,880	9.64
5.2 m, 20'34"	10 ft lb					*25,720	*25,720	*19,870	17,490	*17,060	12,470	14,510	9,350	*10,780	8,560	31.6
Arm:	1.5 m kg	1				*14,940	11,680	*10,770	7,690	*8,730	5,560	6,620	4,230	*5,200	3,780	9.67
3.7 m, 12'2"	5 ft lb					*32,220	25,180	*23,320	16,580	18,840	11,990	14,250	9,110	*11,460	8,340	31.74
Shoe :	0 m kg	1		*6,730	*6,730	*16,680	11,190	*11,960	7,380	8,550	5,380	6,520	4,140	*5,730	3,840	9.47
00 mm, 24" WT :	Oft Ib							*25,910		18,410	11,600	14,040	8,920		8,480	
	-1.5 m kg		*6,940						7,220	8,440	5,280	6,480	4,100			
,200 kg, 3,670 lb	-	*15,520							15,570	18,170	11,390	-,	.,	14,290	,	
0,010 10	-3.0 m kg								7,200	8,440	5,280				4,650	
	-10 ft lb									18,190	11,400					
										10,190	1,400				10,320	
	-4.5 m kg	. ,	,	,	,	,	,	,	,						5,830	
	-15 ft lb		-39,050					~23,900	15,820						13,060	
	-6.0 m kg					*11,150									*9,030	
	-20 ft lb			^33,270	^33,270	*23,290	^23,290							^19,890	*19,890	16.8

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

For lifting capaci	at the arm e ity including				actual w	eiaht of	the direc	t fit buc	ket or th	e hucket	with au	ick coupl	ler from	the follo	wing valu	
T OF Inting capaci	T T	1.5 m			, 10 ft	4.5 m			, 20 ft	1	, 25 ft	1	, 30 ft	1	lax. Read	
	Lifting Point	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.
	7.5 m kg	00	00	00	00	00	00	*7,700	*7,700	00	00	00	00	*7,860	*7,860	6.52 m
	25 ft lb							*17,100	*17,100					*17,360	*17,360	
	6.0 m kg							*8,040	*8,040	*7,840	6,240			*7,850	6,170	7.55 m
	20 ft lb							*17,570	*17,570	)	-, -			*17,300	13,780	24.60 f
	4.5 m kg					*11,350	*11,350	*9,140	8,620	*8,160	6,130			*7,990	5,340	8.18 m
Boom :	15 ft lb					*24,370	*24,370	*19,820	18,590	*17,850	13,210			*17,610	11,830	26.76 fl
6.2 m, 20'34"	3.0 m kg					*14,480	12,350	*10,560	8,190	*8,820	5,940			7,660	4,920	8.50 m
Arm:	10 ft lb					*31,090	26,680	*22,840	17,690	*19,200	12,810			16,910	10,870	27.86 fl
2.55 m , 8'4" Shoe :	1.5 m kg					*16,620	,	*11,810	7,840	9,080	5,750			7,490	4,790	8.54 m
800 mm, 32"	5 ft lb							*25,560		19,560	12,420			16,530	10,560	28.01 f
CWT:	0 m kg					*17,200	,	12,490	7,630	8,940	5,630			7,730	4,910	8.31 m
6,200kg,	Oft Ib					*37,270	24,740	26,870	16,460	19,270	12,150			17,040	10,830	27.25 f
13,670 lb	-1.5 m kg			,	*12,880	,	11,490	12,420	7,570	8,920	5,610			8,480	5,360	7.78 m
	-5 ft lb					*36,390		26,720	16,330	19,230	12,120			18,740	11,840	25.48 f
	-3.0 m kg			,	,	*15,400	,	*11,630	7,660					*9,770	6,400	6.88 m
	-10 ft lb			· · · ·	,	*33,340 *12,400	,	~25,080	16,550					*21,570 *10,010	14,210	22.46 f
	-4.5 m kg -15 ft lb			,	,	*26,450	,							*22,050	9,150 20,710	5.44 m 17.54 ft
	7.5 m kg			33,730	33,730	20,430	23,930							*6,470	*6,470	7.20 m
	25 ft lb														*14,340	
	6.0 m kg									*7,190	6,360			*6,200	5,510	8.15 m
	20 ft lb									*15,850	13,670			*13,690	,	26.57 ft
	4.5 m kg					*10,200	*10,200	*8,480	*8,480	*7,660	6,200			*6,200	4,840	8.73 m
Boom :	15 ft lb						,	,	*18,400	*16,730	13,360			*13,640		28.58 f
6.2 m, 20'34"	3.0 m kg					*13,320	12,550	*9,950	8,270	*8,390	5,970	*6,680	4,520	*6,400	4,500	9.03 m
Arm :	10 ft lb					*28,630	27,100	*21,540	17,850	*18,270	12,880	,	,	*14,080	9,930	29.61 ft
3.05 m, 10'0"	1.5 m kg					*15,820	11,730	*11,320	7,840	9,080	5,750	6,930	4,420	*6,830	4,380	9.07 m
Shoe : 800 mm, 32"	5 ft lb					*34,120	25,310	*24,520	16,940	19,570	12,400			*15,030	9,650	29.76 ft
CWT :	0 m kg					*16,910	11,370	*12,230	7,570	8,900	5,590			7,030	4,460	8.85 m
6,200 kg,	0 ft lb					*36,630	24,490	*26,510	16,340	19,190	12,060			15,490	9,850	29.04 f
13,670 lb	-1.5 m kg	*7,690	*7,690	,	,	*16,890	,	12,310	7,460	8,830	5,520			7,600	4,810	8.36 m
	-5 ft lb	*17,240	,	*26,870	,	,	,	26,490	16,100	19,040	11,930			16,790	10,620	27.38 ft
	-3.0 m kg	,	,	,	,	,	,	*11,950	7,510	8,920	5,600			8,870	5,580	7.53 m
	-10 ft lb	*31,360	*31,360	,	,	,	,	*25,840	· · ·					19,690	12,380	24.61 ft
	-4.5 m kg			,	,	*13,580	,	*9,940	7,770					*9,330	7,380	6.24 m
	-15 ft lb			*40,150	*40,150	*29,170	25,300	*20,990	16,840	*0.000	*0.000			*20,590	· · · · ·	20.23 ft
	7.5 m kg									*6,260	*6,260			*4,930	*4,930	7.96 m
	25 ft lb 6.0 m kg									*12,940 *6,350				*10,930	*10,930	25.82 ft 8.82 m
	20 ft lb									*13,980	13,760				*10,490	
	4.5 m kg							*7,540	*7,540	*6,940	6,230	*6,390	4,610	*4,750	4,300	9.36 m
	15 ft lb							*16,370	*16,370	*15,160	13,410	*12,690	9,890	*10,460	9,520	30.64 f
Boom :	3.0 m kg					*11,890	*11.890	*9,120	8,390	*7,780	5,990	7,020	4,500	*4,900	4,010	9.64 m
6.2 m, 20'34"	10 ft lb					*25,580	,		18,100	*16,940	12,920	15,100	9,680	*10,780	8,870	31.60 ft
Arm :	1.5 m kg							*10,690		*8,670	5,760	6,880	4,380	*5,200	3,910	9.67 m
3.7 m, 12'2"	5 ft lb					*31,990			17,150	*18,830	12,410	14,820	9,430	*11,460	8,630	31.74 ft
Shoe:	0 m kg			*6,730	*6,730	*16,550				8,890	5,570	6,780	4,280	*5,730	3,980	
800 mm, 32" CWT :	Oft Ib			,	,	*35,800	,	,	,	19,140	12,000	14,600	9,230	*12,630	8,770	31.07 ft
6,200 kg,	-1.5 m kg	*6,940	*6,940						7,460	8,770	5,460	*6,710	4,240	*6,590	4,240	9.01 m
13,670 lb	-5 ft lb	*15,520	*15,520	*24,780	*24,780	*36,940	24,450	26,480	16,080	18,880	11,770			*14,580	9,360	29.53 ft
*	-3.0 m kg	*11,570	*11,570	*16,550	*16,550	*16,530	11,380	*12,260	7,430	8,760	5,450			7,660	4,810	8.25 m
	-10 ft lb	*25,970	*25,970	*37,550	*37,550	*35,800	24,490	26,430	16,030	18,890	11,780				10,660	
	-4.5 m kg	*17,310	*17,310	*21,140	*21,140	*14,860	11,580	*11,040	7,560					*8,730	6,030	7.10 m
	-15 ft lb	*39,050	*39,050					*23,680	16,340					,	13,490	
	-6.0 m kg			,	,	*11,030	,							,	*8,930	
	-20 ft lb			*32,890	*32,890	*23,030	*23,030							*19,660	*19,660	16.85 ft

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

#### LIFTING CAPACITY EC300EL

Lifting capacity at the arm end without bucket.

	ľ	1	n, 5 ft	subtract 3.0 m	, 10 ft		, 15 ft	1	, 20 ft	7.5 m		1	, 30 ft	1	lax. Read	
	Lifting Point	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Max.
	9.0 m kg					*11,710	*11,710		00						*10,640	4.94 n
	30 ft lb					,	*25,816							,	*23,457	
	7.5 m kg					,	,	*10,050	8,810					*9,320	7,450	6.61 n
	25 ft lb					,	*24,890	,	19,423					*20,547	,	21.69
-	6.0 m kg			*12.170	*12,170	,	,	*10,310	,	*9,210	6,000			*8,900	5,820	7.63 r
Boom :	20 ft lb			,	*26,830	,	,	,	19,092	*20,305	13,228			*19,621	12,831	25.03
6.2 m, 20'34"	4.5 m kg				,	,	12,900		8,300	9,170	5,880			7,840	5,030	8.25 r
2-piece Arm :	15 ft lb					*31,548	-	*24,515	18,298	20,216	12,963			17,284	11,089	27.07
2.55 m , 8'4"	3.0 m kg					*16,440	,	*12,040	7,860	8,940	5,680			7,280	4,640	8.56 r
Shoe:	10 ft lb					*36,244	,	*26,544	17,328	19,709	12,522			16,050	10,229	28.08
600 mm, 24"	1.5 m kg							12,260	7,490	8,730	5,490			7,120	4,510	8.60 r
CWT:	5 ft lb							27,029	16,513	19,246	12,103			15,697	9,943	28.22
6,200 kg,	0 m kg					*16,280	10.980	12,010	7,280	8,600	5,370			7,350	4,630	8.37 r
13,670 lb	Oft Ib					*35,891	,	26,477	16,050	18,960	11,839			16,204	10,207	27.46
	-1.5 m kg					*14,390	11,010	*11,290	7,230	*8,570	5,360			*7,840	5,060	7.85 r
	-5 ft lb					*31,724	24,273	*24,890	,	*18,894	11,817			*17,284	11,155	25.75
	-3.0 m kg					*11,380		*8,970	7,350	.0,00+	,017			*6,980	6,050	6.96 n
	-10 ft lb					*25,089	,	*19,775	16,204					*15,388	13,338	22.83
	9.0 m kg					*9,760	*9,760		10,20 +					*7,380	*7,380	5.83 r
	30 ft lb					*21,517	*21,517							*16,270	*16,270	
	7.5 m kg					*9,190	*9,190	*9,400	9,010					*6,550	6,420	7.29 m
	25 ft lb					- )	*20,260	,	19,864					*14,440	14,154	23.92
	6.0 m kg					*9,740	*9,740	*9,760	8,830	*8,750	6,120			*6,230	5,200	8.22 r
Boom :	20 ft lb					*21,473	*21,473	*21,517	19,467	*19,290	13,492			*13,735	11,464	26.97
6.2 m, 20'34"	4.5 m kg					*13,400	,	*10,620	,	*9,060	5,950			*6,180	4,560	8.80 r
2-piece	15 ft lb					*29,542	,	*23,413	18,585	*19,974	13,117			*13,625	10,053	28.87
Arm :	3.0 m kg					*15,680	,	*11,640	7,940	8,990	5,720	6,760	4,310	*6,340	4,240	9.10 m
3.05 m, 10'0" Shoe :	10 ft lb					*34,568	,	*25,662	,	19,820	12,610	14,903	9,502	*13,977	9,348	29.86
600 mm, 24"	1.5 m kg					*16,940	,	12,280	7,500	,	5,490	6,660	4,210	6,510	4,120	9.13 m
CWT :	5 ft lb					*37,346	,	27,073	,	8,740				,	,	29.95
6,200 kg,						,	,	,	16,535	19,268	12,103	14,683	9,281	14,352 6,680	9,083	8.92 r
13,670 lb	0 m kg 0 ft lb					*16,640		11,960	7,220	8,560	5,330			,	4,210	29.27
	-1.5 m kg			*11 010	*11,010	,	,	26,367 *11,650	15,917	18,872	11,751			14,727	9,281	8.43 r
	-5 ft lb			,	,	*15,150	,	,	7,120	8,490	5,270			7,230	4,540	27.66
				~24,273	*24,273			*25,684		18,717	11,618			15,939	10,009	
	-3.0 m kg					*12,550	,	*9,820	7,190	*6,990	5,370			*6,700	5,280	7.61 m
	-10 ft lb					*27,668	24,141	*21,649	15,851	*15,410	11,839			*14,771	11,640	24.97
	10.5 m kg					*7,390	*7,390							*6,910	*6,910	4.67 n
	35 ft lb					^ 16,292	*16,292	+7000	+7000					,	*15,234	
	9 m kg							*7,200	*7,200					*5,520	*5,520	6.76 r
	30 ft lb							*15,873	*15,873	*0.050	0000			*12,170	*12,170	22.18
	7.5 m kg							*7,460	*7,460	*6,650	6,220			*4,990	*4,990	
	25 ft lb					+7000	+7000	*16,446	*16,446	*14,661	13,713			*11,001	*11,001	26.41
Boom :	6.0 m kg					*7,060	*7,060	*7,820	*7,820	*7,700	6,170			*4,770	4,540	8.90 r
6.2 m, 20'34"	20 ft lb			+10.040	+10.040	*15,565	*15,565	*17,240	*17,240	*16,976	13,603	+0700	4.400	*10,516	10,009	29.20
2-piece	4.5 m kg			,	*10,040	,	*9,870	*9,580	8,550	*8,520	5,990	*6,700	4,400	*4,730	4,030	9.44 r
Arm :	15 ft lb			*22,134	*22,134		,	*21,120	18,850	*18,783	13,206	*14,771	9,700	*10,428	,	30.97
3.7 m, 12'2"	3.0 m kg							*11,050		9,030	5,740	6,750	4,290	*4,850	3,770	9.71 n
Shoe:	10 ft lb						27,558		17,791	19,908	12,655	14,881	9,458	*10,692	8,311	31.86
600 mm, 24"	1.5 m kg							*12,030		8,760	5,500	6,610	4,170	*5,110	3,670	
CWT : 6,200 kg,	5ft lb			4.5.5.5.5	1.0.0.0.0	,	,	*26,522		19,312	12,125	14,573	9,193	*11,266	8,091	31.99
13,670 lb	0 m kg			,	*5,950	,	,	,	7,280	8,540	5,300	6,510	4,070	*5,570		
10,010 10	0 ft lb				*13,117			26,544	16,050	18,827	11,684	14,352	8,973	*12,280		31.33
	-1.5 m kg				*10,200				7,110	8,420	5,200	6,470	4,040	,		
	-5 ft lb			*22,487	*22,487	*35,450	23,942	26,103	15,675	18,563	11,464	14,264	8,907	*13,955	8,796	29.82
	-3.0 m kg			*15,880	*15,880	*14,010	10,900	*10,720	7,100	*8,110	5,210			*6,470	4,530	8.34 r
	-10 ft lb			*35,009	*35,009	*30,887	24,030	*23,634	15,653	*17,879	11,486			*14,264	9,987	27.36
	-4.5 m kg						*10,510		7,260							7.20 r
	- 15 ft lb						-	*17,593	,							23.62

Notes: 1. Machine in "Fine Mode-F" (Power Boost) for lifting capacities. 2. The above loads are in compliance with SAE J1097 and ISO 10567 Hydraulic Excavator Lifting Capacity Standards. 3. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. 4. Rated loads marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

	TY EC300	ELR														
Lifting capacity a																
For lifting capaci	ty including	1		1						1		1		the follo	wing value	ues.
	Lifting		, 0 ft	Along	n, 5 ft	Along	, 10 ft	Along	15 ft	Along	, 20 ft	Along	, 25 ft Across			
	point	Along UC	Across UC	UC	Across UC	UC	Across UC	UC	Across UC	UC	Across UC	UC	UC			
	3.0 m kg					*4,200	*4,200					*5,290	*5,290			
	10 ft lb					*10,510	*10,510					*11,440	*11,440			
	1.5 m kg							,	*5,640	*7,990	7,430	*6,160	5,510			
	5ft lb							,	*13,270	,	16,080	*13,330	11,910			
	0 m kg					*1,810	*1,810	*3,990	*3,990	*9,090	6,640	*6,920	4,990			
	Oft lb			*1,780	*1,780	*4,110 *2,370	*4,110 *2,370	*9,140 *3,940	*9,140 *3,940	*19,650 *7,280	14,350	*14,980 *7,500	10,780 4,610			
	-1.5 m kg -5 ft lb			*3,960	*3,960	*5,320	*5,320	*8,930	*8,930	*16,750	6,140 13,250	*16,240	4,010 9,950			
Boom :	-3 m kg	*2,440	*2,440	*2,460	*2,460	*3,030	*3,030	*4,360	*4,360	*7,040	5,870	7,680	4,360			
10.2 m LR, 33'6"	-10 ft lb	*5,430	*5,430	*5,480	*5,480	*6,800	*6,800	*9,850	*9,850	*16,070	12,650	16,540	9,410			
Arm :	-4.5 m kg		*2,990	*3,150	*3,150	*3,760	*3,760	*5,010	*5,010	*7,440	5,750	7,530	4,230			
7.9 m LR, 25'9"	-15 ft lb	*6,660	*6,660	*7,040	*7,040	*8,430	*8,430	*11,320	*11,320	*16,950	12,400	16,220	9,130			
Shoe :	-6 m kg	*3,600	*3,600	*3,880	*3,880	*4,550	*4,550	*5,840	*5,840	*8,240	5,750	7,480	4,190			
800 mm, 32"	-20 ft lb	*8,040	*8,040	*8,690	*8,690	*10,230	,	í.	*13,190		,	16,120	9,040			
CWT : 6,900 kg,	-7.5 m kg		*4,270		*4,660					*9,410	5,840	7,520	4,220			
15,210 lb	-25ft lb	*9,540	*9,540	,	*10,450			,	*15,470		12,590	16,210	9,120			
	-9 m kg		*4,990	,	*5,510	,	,	,	,	,	6,000	*7,450	4,330			
	-30 ft lb -10.5 m kg	*11,160	*11,160		*12,370				*18,270	· ·	12,970	*16,050	9,360			
	-35 ft lb				*6,450			*21,860		*8,310 *17,780	6,250 13,540	*14,430	4,510 9,780			
	-12 m kg			, +,500	1 7,000	· · ·	,	*8,680	,	*6,900	6,620	*5,620	4,790			
	-40 ft lb					,	,	,	*18,250		14,370	*11,780	10,430			
	-13.5 m kg					,	,	,	Í	*4,690	,	,	,			
	-45ft lb									*10,340	*10,340					
		9.0 m	, 30 ft	1	n, 35 ft	12.0 m	n, 40 ft	1	n, 45 ft	15.0 m	n, 50 ft		n, 55 ft	N	/lax. read	h
		Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Along	Across	Max
	13.5 m kg	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC *1,330	UC *1 220	12.94 m
	45 ft lb													*2,970	*2,970	41.79 ft
	12.0 m kg							*1,870	*1,870					*1,260	,	14.14 m
	40 ft lb							*3,470	*3,470					*2,790	,	45.93 ft
	10.5 m kg							*2,460	*2,460	*1,330	*1,330			*1,210		15.10 m
	35ft lb							*5,080	*5,080					*2,680	*2,680	49.21 ft
	9.0 m kg									+0.000						+5.211t
								*2,700		*2,060	*2,060			*1,190		15.85 m
	30 ft lb							*5,940	*5,940	*3,990	*3,990			*2,630	*2,630	15.85 m 51.80 ft
	7.5 m kg							*5,940 *2,800	*5,940 2,740	*3,990 *2,530	*3,990 2,170			*2,630 *1,180	*2,630 *1,180	15.85 m 51.80 ft 16.44 m
	7.5 m kg 25 ft lb					*2.060	*2.060	*5,940 *2,800 *6,140	*5,940 2,740 5,860	*3,990 *2,530 *5,160	*3,990 2,170 4,630	*1600	1690	*2,630 *1,180 *2,610	*2,630 *1,180 *2,610	15.85 m 51.80 ft 16.44 m 53.80 ft
	7.5 m kg 25 ft lb 6.0 m kg					,	*3,060	*5,940 *2,800 *6,140 *2,950	*5,940 2,740 5,860 2,630	*3,990 *2,530 *5,160 *2,870	*3,990 2,170 4,630 2,110	*1,690	1,680 *2 900	*2,630 *1,180 *2,610 *1,190	*2,630 *1,180 *2,610 *1,190	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m
	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb			*3.570	*3,570	*6,680	*6,680	*5,940 *2,800 *6,140 *2,950 *6,450	*5,940 2,740 5,860 2,630 5,640	*3,990 *2,530 *5,160 *2,870 *6,050	*3,990 2,170 4,630 2,110 4,500	*2,900	*2,900	*2,630 *1,180 *2,610 *1,190 *2,630	*2,630 *1,180 *2,610 *1,190 *2,630	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft
	7.5 m kg 25 ft lb 6.0 m kg			*3,570 *7,770	*3,570 *7,770	,	,	*5,940 *2,800 *6,140 *2,950	*5,940 2,740 5,860 2,630	*3,990 *2,530 *5,160 *2,870 *6,050 *2,990	*3,990 2,170 4,630 2,110 4,500 2,020	*2,900 *2,080		*2,630 *1,180 *2,610 *1,190	*2,630 *1,180 *2,610 *1,190 *2,630	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m
Poom :	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg	*4,500	*4,500			*6,680 *3,320	*6,680 3,120	*5,940 *2,800 *6,140 *2,950 *6,450 *3,130	*5,940 2,740 5,860 2,630 5,640 2,510	*3,990 *2,530 *5,160 *2,870 *6,050	*3,990 2,170 4,630 2,110 4,500	*2,900	*2,900 1,630	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m
Boom : 10.2 m LR,	7.5 m      kg        25 ft      lb        6.0 m      kg        20 ft      lb        4.5 m      kg        15 ft      lb        3.0 m      kg        10 ft      lb	*9,760	*9,760	*7,770 *3,980 *8,640	*7,770 3,660 7,900	*6,680 *3,320 *7,240 *3,610 *7,850	*6,680 3,120 6,720 2,930 6,310	*5,940 *2,800 *6,140 *2,950 *6,450 *3,130 *6,840 *3,340 *7,280	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090	*3,990 *2,530 *5,160 *2,870 *6,050 *2,990 *6,550 *3,140 *6,860	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130	*2,900 *2,080 *3,880 *2,360 *4,500	*2,900 1,630 3,460 1,570 3,340	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,260 *1,260 *2,770	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,260 *1,260 *2,770	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft
	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 10 ft lb 1.5 m kg	*9,760 *5,090	*9,760 4,260	*7,770 *3,980 *8,640 *4,390	*7,770 3,660 7,900 3,390	*6,680 *3,320 *7,240 *3,610 *7,850 *3,900	*6,680 3,120 6,720 2,930 6,310 2,740	*5,940 *2,800 *6,140 *2,950 *6,450 *3,130 *6,840 *3,340 *7,280 *3,550	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240	*3,990 *2,530 *5,160 *2,870 *6,050 *2,990 *6,550 *3,140 *6,860 3,120	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830	*2,900 *2,080 *3,880 *2,360 *4,500 *2,530	*2,900 1,630 3,460 1,570 3,340 1,510	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,260 *1,260 *1,260 *1,320	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *2,680 *1,260 *2,770 *1,320	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft 17.33 m
10.2 m LR, 33'6" Arm :	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 10 ft lb 1.5 m kg 5 ft lb	*9,760 *5,090 *11,020	*9,760 4,260 9,210	*7,770 *3,980 *8,640 *4,390 *9,520	*7,770 3,660 7,900 3,390 7,300	*6,680 *3,320 *7,240 *3,610 *7,850 *3,900 *8,490	*6,680 3,120 6,720 2,930 6,310 2,740 5,890	*5,940 *2,800 *6,140 *2,950 *6,450 *3,130 *6,840 *3,340 *7,280 *3,550 *7,740	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800	*3,990 *2,530 *5,160 *2,870 *6,050 *2,990 *6,550 *3,140 *6,860 3,120 6,700	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930	*2,900 *2,080 *3,880 *2,360 *4,500 *2,530 *4,830	*2,900 1,630 3,460 1,570 3,340 1,510 3,220	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,260 *1,260 *2,770 *1,320 *2,900	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,260 *2,770 *1,320 *2,900	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft 17.33 m 56.85 ft
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9"	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 10 ft lb 1.5 m kg 5 ft lb 0 m kg	*9,760 *5,090 *11,020 *5,620	*9,760 4,260 9,210 3,910	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770	*7,770 3,660 7,900 3,390 7,300 3,140	*6,680 *3,320 *7,240 *3,610 *7,850 *3,900 *8,490 *4,180	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560	*5,940 *2,800 *6,140 *2,950 *6,450 *3,130 *6,840 *3,340 *7,280 *3,550 *7,740 3,570	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110	*3,990 *2,530 *5,160 *2,870 *6,050 *3,140 *6,860 3,120 6,700 3,020	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750	*2,900 *2,080 *3,880 *2,360 *4,500 *4,530 *4,830 *2,560	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450	*2,630 *1,180 *2,610 *2,630 *1,190 *2,680 *1,260 *1,260 *1,260 *1,320 *1,320 *1,390	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *2,680 *1,260 *1,260 *2,770 *1,320 *2,900 1,330	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft 17.33 m 56.85 ft 17.21 m
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe :	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb	*9,760 *5,090 *11,020 *5,620 *12,180	*9,760 4,260 9,210 3,910 8,440	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350	*7,770 3,660 7,900 3,390 7,300 3,140 6,770	*6,680 *3,320 *7,240 *3,610 *7,850 *3,900 *8,490 *4,180 *9,090	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510	*5,940 *2,800 *6,140 *2,950 *6,450 *3,130 *6,840 *3,340 *7,280 *3,550 *7,740 3,570 7,690	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530	*3,990 *2,530 *5,160 *2,870 *6,050 *2,990 *6,550 *3,140 *6,860 3,120 6,700 3,020 6,500	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740	*2,900 *2,080 *3,880 *2,360 *4,500 *2,530 *4,830 *2,560 *4,790	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *2,680 *1,260 *2,770 *1,320 *1,390 *1,390 *3,080	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *2,680 *1,260 *2,770 *1,320 *2,900 1,330 2,930	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft 17.33 m 56.85 ft 17.21 m 56.48 ft
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9"	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 10 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb -1.5 m kg	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060	*9,760 4,260 9,210 3,910 8,440 3,630	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930	*6,680 *3,320 *7,240 *3,610 *7,850 *3,900 *8,490 *4,180 *9,090 4,110	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410	*5,940 *2,800 *6,140 *2,950 *6,450 *3,130 *6,840 *3,340 *7,280 *3,550 *7,740 3,570 7,690 3,450	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 2,000	*3,990 *2,530 *5,160 *2,870 *6,050 *2,990 *6,550 *3,140 *6,860 3,120 6,700 3,020 6,500 2,940	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670	*2,900 *2,080 *3,880 *2,360 *4,500 *2,530 *4,830 *2,560 *4,790 *2,370	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *2,680 *1,260 *2,770 *1,320 *1,390 *1,390 *3,080 *1,500	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *2,680 *1,260 *2,770 *1,320 *2,900 1,330 2,930 1,330	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft 17.33 m 56.85 ft 17.21 m 56.48 ft 16.97 m
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 10 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb -1.5 m kg -5 ft lb	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060 *13,130	*9,760 4,260 9,210 3,910 8,440 3,630 7,830	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970 10,720	*7,770 3,660 7,900 3,390 7,300 3,140 6,770	*6,680 *3,320 *7,240 *3,610 *7,850 *3,900 *8,490 *4,180 *9,090	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410 5,180	*5,940 *2,800 *6,140 *2,950 *6,450 *3,130 *6,840 *3,340 *3,550 *7,740 3,570 7,690 3,450 7,440	*5,940 2,740 5,860 2,630 5,640 2,510 5,640 2,370 5,090 2,240 4,800 2,110 4,530 2,100 4,290	*3,990 *2,530 *5,160 *2,870 *6,050 *2,990 *6,550 *3,140 *6,860 3,120 6,700 3,020 6,500 2,940 6,330	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740	*2,900 *2,080 *3,880 *2,360 *4,500 *2,530 *4,830 *2,560 *4,790	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *2,680 *1,260 *2,770 *1,320 *1,390 *1,390 *3,080	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,220 *1,220 *1,220 *1,320 2,930 1,330 2,940	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft 17.33 m 56.85 ft 17.21 m 56.48 ft
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT :	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 10 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb -1.5 m kg -5 ft lb	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060	*9,760 4,260 9,210 3,910 8,440 3,630	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320	*6,680 *3,320 *7,240 *3,610 *7,850 *3,900 *8,490 *4,180 *9,090 4,110 8,850	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410	*5,940 *2,800 *6,140 *2,950 *6,450 *3,130 *6,840 *3,340 *7,280 *3,550 *7,740 3,570 7,690 3,450	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 2,000	*3,990 *2,530 *5,160 *2,870 *6,050 *2,990 *6,550 *3,140 *6,860 3,120 6,700 3,020 6,500 2,940	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,580	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,220 *1,220 *1,220 *1,320 *1,390 *3,080 *1,500 *3,310	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,220 *1,220 *1,220 *1,320 2,930 1,330 2,940	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft 17.33 m 56.85 ft 17.21 m 56.48 ft 16.97 m 55.66 ft
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 5 ft lb 0 m kg 5 ft lb 0 ft kg -1.5 m kg -5 ft lb -3 m kg	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060 *13,130 5,950 12,820	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970 10,720 4,800	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,780	*6,680 *3,320 *7,240 *3,610 *7,850 *8,490 *4,180 *9,090 4,110 8,850 3,980	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410 5,180 2,290	*5,940 *2,800 *6,140 *2,950 *6,450 *3,130 *6,840 *3,340 *7,740 3,570 7,690 3,450 7,440 3,370	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 2,100 4,290 1,910	*3,990 *2,530 *5,160 *2,970 *6,550 *3,140 *6,860 3,120 6,700 3,120 6,700 3,020 6,500 2,940 6,330 2,980	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,580 1,610	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,220 *2,700 *1,320 *1,330 *1,500 *3,310 *1,630	*2,630 *1,180 *2,610 *1,190 *1,900 *1,220 *1,220 *1,220 *1,330 2,930 1,330 2,940 1,370 3,020	$\begin{array}{c} 15.85m\\ 51.80ft\\ 16.44m\\ 53.80ft\\ 16.87m\\ 55.27ft\\ 17.16m\\ 56.25ft\\ 17.31m\\ 56.25ft\\ 17.33m\\ 56.85ft\\ 17.21m\\ 56.48ft\\ 16.97m\\ 55.66ft\\ 16.58m\end{array}$
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 0 ft lb -1.5 m kg 0 ft lb -1.5 m kg -5 ft lb -3 m kg -10 ft lb	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060 *13,130 5,950 12,820	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430 7,390	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970 10,720 4,800 10,360	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,780 5,980	*6,680 *3,320 *7,240 *3,610 *7,850 *3,900 *8,490 *4,180 *9,090 4,110 8,850 3,980 8,590	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410 5,180 2,290 4,930	*5,940 *2,800 *6,140 *2,950 *3,130 *3,130 *3,340 *3,340 *3,340 *3,550 *7,740 3,570 7,690 3,450 3,450 7,250	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,100 4,800 2,100 4,290 1,910 4,110	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,860 3,120 6,700 3,020 6,500 2,940 6,330 2,880 6,210	*3,990 2,170 4,630 2,110 4,500 2,020 1,930 4,130 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,580 1,610 3,470	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *1,220 *1,220 *1,220 *1,320 *1,320 *3,080 *1,500 *1,500 *1,530 *1,5310 *1,630 *3,620	*2,630 *1,180 *2,610 *1,190 *1,900 *1,220 *1,220 *1,220 *1,330 2,930 1,330 2,940 1,370 3,020	$\begin{array}{c} 15.85  \text{m} \\ 51.80  \text{ft} \\ 16.44  \text{m} \\ 53.80  \text{ft} \\ 16.87  \text{m} \\ 55.27  \text{ft} \\ 17.16  \text{m} \\ 56.25  \text{ft} \\ 17.31  \text{m} \\ 56.25  \text{ft} \\ 17.33  \text{m} \\ 56.85  \text{ft} \\ 17.21  \text{m} \\ 56.48  \text{ft} \\ 16.97  \text{m} \\ 55.66  \text{ft} \\ 16.58  \text{m} \\ 54.36  \text{ft} \end{array}$
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb -1.5 m kg -3 m kg -10 ft lb -4.5 m kg -15 ft lb -4.5 m kg -15 ft lb	*9,760 *5,090 *11,020 *12,180 *6,060 *13,130 5,950 12,820 12,820 12,540 5,760	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430 7,390 3,310 7,130 3,250	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970 10,720 4,800 10,360 4,700 10,130 4,650	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,780 5,980 2,680 5,770 2,630	*6,680 *3,320 *7,240 *3,610 *7,850 *3,900 *4,180 *9,090 4,110 8,850 3,980 8,590 3,900 8,410 3,870	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,760 5,510 2,410 2,290 4,930 2,210 4,770 2,180	*5,940 *2,800 *6,140 *2,950 *6,840 *3,300 *3,340 *3,340 *3,550 *7,740 3,570 7,690 3,450 7,440 3,370 7,250 3,310 7,140 3,290	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 2,370 2,370 2,240 4,800 2,110 4,530 2,000 4,290 1,910 4,110 1,860 4,000 1,840	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,560 3,120 6,700 3,020 6,500 2,940 6,500 2,880 6,210 2,850 6,210 2,850 6,160 2,860	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 4,130 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,580 1,610 3,470 1,580	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,220 *1,320 *1,330 *1,330 *1,330 *1,500 *3,310 *1,630 *1,820 *1,820 *3,620 *1,820 *3,620	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,220 *1,220 *1,220 *1,330 2,930 1,330 2,930 1,330 2,940 1,370 1,430 3,170 1,540	$\begin{array}{c} 15.85\text{m} \\ 51.80\text{ft} \\ 16.44\text{m} \\ 53.80\text{ft} \\ 16.87\text{m} \\ 55.27\text{ft} \\ 17.16\text{m} \\ 56.25\text{ft} \\ 17.31\text{m} \\ 56.77\text{ft} \\ 17.33\text{m} \\ 56.85\text{ft} \\ 17.21\text{m} \\ 55.66\text{ft} \\ 16.58\text{m} \\ 54.36\text{ft} \\ 16.58\text{m} \\ 52.55\text{ft} \\ 15.34\text{m} \\ \end{array}$
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb -1.5 m kg -5 ft lb -3 m kg -10 ft lb -4.5 m kg -15 ft lb -4.5 m kg -15 ft lb	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060 *13,130 5,950 12,820 12,820 5,820 12,540 5,760 12,420	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430 7,390 3,310 7,130 3,250 7,020	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970 10,720 4,800 10,360 4,700 10,360 4,650 10,020	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,780 2,980 2,680 5,970 2,630 5,670	*6,680 *3,320 *7,240 *3,960 *3,960 *8,490 *4,180 *9,090 4,110 8,850 3,980 8,590 3,900 8,410 3,970 8,340	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410 5,180 2,290 4,930 2,210 4,970 2,180 4,770	*5,940 *2,800 *6,140 *3,130 *6,840 *3,340 *3,340 *7,280 *7,740 3,570 7,690 3,450 7,440 3,370 7,250 3,310 7,140 3,310 7,140 3,290 7,110	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 2,000 4,290 1,910 4,100 1,860 4,000 1,840 3,980	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,560 3,120 6,700 3,020 6,500 2,940 6,330 2,880 6,210 2,850 6,160	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,580 1,610 3,470 1,580 3,410	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,220 *1,220 *1,220 *2,680 *1,260 *2,970 *1,320 *1,320 *1,500 *3,310 *1,500 *3,310 *1,630 *1,630 *1,820 *1	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *2,960 *1,260 *2,970 1,330 2,930 1,330 2,940 1,370 3,020 1,430 3,170 1,540 3,430	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft 17.21 m 56.48 ft 16.97 m 55.66 ft 16.58 m 54.36 ft 16.05 m 54.36 ft 16.05 m 54.36 ft 16.05 m 54.36 ft 16.05 m 54.36 ft 16.05 m 54.36 ft
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 10 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb -1.5 m kg -5 ft lb -3 m kg -15 ft lb -4.5 m kg -15 ft lb -4.5 m kg -20 ft lb -7.5 m kg	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060 *13,130 5,950 12,820 12,540 5,760 12,420 5,770	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430 7,830 3,430 7,390 3,310 7,130 3,250 7,020 3,270	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970 10,720 4,800 10,360 4,700 10,130 4,650 10,020 4,650	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,780 2,680 5,980 2,680 5,970 2,630 5,670 2,640	*6,680 *3,320 *7,240 *3,610 *7,850 *3,900 *4,180 *9,090 4,110 8,850 3,980 8,590 3,900 8,410 3,870 8,340 3,880	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410 5,180 2,290 4,930 2,210 4,770 2,180 4,700 2,190	*5,940 *2,800 *6,140 *3,130 *6,450 *3,130 *3,340 *3,350 *7,740 3,570 7,690 3,450 7,440 3,370 7,250 3,310 7,140 3,290 7,110 3,220	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 4,290 1,910 4,110 1,860 4,000 1,840 3,980 1,870	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,560 3,120 6,700 3,020 6,500 2,940 6,500 2,880 6,210 2,850 6,210 2,850 6,160 2,860	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,740 1,670 3,470 1,580 3,410 1,590	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *1,200 *1,260 *1,260 *1,320 *1,320 *1,390 *1,500 *3,310 *1,630 *1,630 *1,630 *1,820 *4,030 *4,030 *4,030 *4,030 *4,010	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *2,680 *1,220 *2,900 1,330 2,930 1,330 2,940 1,370 3,020 1,430 3,170 3,170 3,170 3,170 3,170 3,170	$\begin{array}{l} 15.85m\\ 51.80ft\\ 16.44m\\ 53.80ft\\ 16.87m\\ 55.27ft\\ 17.16m\\ 56.25ft\\ 17.31m\\ 56.75ft\\ 17.31m\\ 56.85ft\\ 17.21m\\ 55.66ft\\ 16.58m\\ 55.66ft\\ 16.58m\\ 52.55ft\\ 16.05m\\ 52.55ft\\ 15.34m\\ 50.17ft\\ 14.45m\\ \end{array}$
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb -1.5 m kg -5 ft lb -3 m kg -10 ft lb -4.5 m kg -10 ft lb -6 m kg -20 ft lb -7.5 m kg -25 ft lb	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060 *13,130 5,950 12,820 12,820 5,820 12,540 5,760 12,420 5,770 12,460	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430 7,390 3,310 7,130 3,250 7,020 3,270 7,060	*7,770 *3,980 *8,640 *9,520 *4,7350 4,970 10,720 4,800 10,360 4,700 10,360 4,650 10,020 4,650 10,050	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,780 5,980 2,680 5,770 2,630 5,670 2,640 5,670	*6,680 *3,320 *7,240 *3,610 *3,900 *8,490 *4,180 *9,090 4,110 8,850 3,980 8,590 3,900 8,410 8,410 8,410 3,870 8,340 3,880 8,380	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 2,5510 2,410 5,180 2,290 4,930 2,210 4,700 2,180 4,700 2,190 4,740	*5,940 *2,800 *6,140 *3,130 *6,840 *3,340 *3,340 *7,280 *7,740 3,570 7,690 3,450 7,440 3,370 7,250 3,310 7,140 3,310 7,140 3,290 7,110	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 2,000 4,290 1,910 4,100 1,860 4,000 1,840 3,980	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,560 3,120 6,700 3,020 6,500 2,940 6,500 2,880 6,210 2,850 6,210 2,850 6,160 2,860	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,740 1,670 3,470 1,580 3,410 1,590	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *1,220 *1,220 *1,220 *1,320 *1,320 *1,300 *3,300 *1,500 *3,310 *1,630 *3,620 *1,820 *1,820 *4,610 *2,440 *2,440	*2,630 *1,180 *2,610 *1,190 *1,190 *1,220 *1,220 *1,220 *1,220 *1,220 1,330 2,940 1,330 2,940 1,370 3,020 1,430 3,170 1,540 3,430 1,720 3,830	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft 17.21 m 56.48 ft 16.97 m 55.66 ft 16.97 m 55.66 ft 16.95 m 52.55 ft 15.34 m 50.17 ft 15.34 m
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 0 ft lb -1.5 m kg -5 ft lb -3 m kg -10 ft lb -4.5 m kg -15 ft lb -6 m kg -20 ft lb -7.5 m kg -25 ft lb -7.5 m kg -7.5 ft lb -7.5 m kg -7.5 ft lb -7.5 m kg -7.5 ft lb -7.5	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060 *13,130 5,950 12,820 5,820 12,540 5,760 12,420 5,770 12,460 5,850	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430 7,390 3,310 7,130 3,250 7,020 3,270 7,060 3,340	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,720 4,870 10,720 4,800 10,360 4,700 10,360 4,650 10,020 4,650 10,050 4,720	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,930 5,980 2,680 5,670 2,660 5,670 2,640 5,700 2,640	*6,680 *3,320 *7,240 *3,610 *3,900 *8,490 *4,180 *9,090 4,110 8,850 3,980 8,590 3,980 8,590 3,980 8,410 3,870 8,340 3,880 8,380 8,380 8,380 8,380 8,380	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410 5,180 2,290 4,930 2,210 4,930 2,210 4,700 2,190 4,740 2,190 4,740 2,260	*5,940 *2,800 *6,140 *3,130 *6,450 *3,130 *3,340 *3,350 *7,740 3,570 7,690 3,450 7,440 3,370 7,250 3,310 7,140 3,290 7,110 3,220	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 4,290 1,910 4,110 1,860 4,000 1,840 3,980 1,870	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,560 3,120 6,700 3,020 6,500 2,940 6,500 2,880 6,210 2,850 6,210 2,850 6,160 2,860	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,740 1,670 3,470 1,580 3,410 1,590	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *1,220 *1,220 *1,320 *1,320 *1,300 *1,300 *1,500 *3,310 *1,500 *1,630 *1,630 *1,630 *1,820 *1,820 *4,610 *2,070 *4,610 *2,440 *3,310 *4,610 *2,440 *3,302	*2,630 *1,180 *2,610 *1,190 *1,190 *1,220 *1,220 *1,220 *1,220 *1,220 *1,230 2,930 1,330 2,940 1,370 3,020 1,430 3,170 1,540 3,430 3,430 3,430 1,220 3,830 1,990	$\begin{array}{c} 15.85\text{m} \\ 51.80\text{ft} \\ 16.44\text{m} \\ 53.80\text{ft} \\ 16.87\text{m} \\ 55.27\text{ft} \\ 17.16\text{m} \\ 56.25\text{ft} \\ 17.31\text{m} \\ 56.25\text{ft} \\ 17.31\text{m} \\ 56.85\text{ft} \\ 17.21\text{m} \\ 55.66\text{ft} \\ 16.97\text{m} \\ 55.66\text{ft} \\ 16.95\text{m} \\ 54.36\text{ft} \\ 16.95\text{m} \\ 52.55\text{ft} \\ 15.34\text{m} \\ 50.17\text{ft} \\ 15.34\text{m} \\ 47.14\text{ft} \\ 13.33\text{m} \end{array}$
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 0 ft lb -1.5 m kg -5 ft lb -3 m kg -10 ft lb -4.5 m kg -25 ft lb -7.5 m kg -25 ft lb -2.5 ft lb -3.0 m kg -25 ft lb -7.5 m kg -25 ft lb -3.0 m kg -2.5 ft lb -3.0 m kg -3.0 ft lb	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060 12,820 12,820 12,540 5,760 12,420 5,770 12,460 5,850 12,650	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430 7,830 3,430 7,390 3,430 7,130 3,250 7,020 3,270 3,270 3,270 3,240	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970 10,720 4,800 10,360 4,700 10,360 4,650 10,020 4,650 10,050 4,720 10,220	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,780 5,980 2,680 5,770 2,680 5,670 2,640 5,670 2,640 5,700 2,640 5,700 2,685	*6,680 *3,320 *7,240 *3,610 *3,900 *8,490 *4,180 *9,090 4,110 8,850 3,980 8,590 3,900 8,410 8,410 8,410 3,870 8,340 3,880 8,380	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 2,5510 2,410 5,180 2,290 4,930 2,210 4,700 2,180 4,700 2,190 4,740	*5,940 *2,800 *6,140 *3,130 *6,450 *3,130 *3,340 *3,350 *7,740 3,570 7,690 3,450 7,440 3,370 7,250 3,310 7,140 3,290 7,110 3,220	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 4,290 1,910 4,110 1,860 4,000 1,840 3,980 1,870	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,560 3,120 6,700 3,020 6,500 2,940 6,500 2,880 6,210 2,850 6,210 2,850 6,160 2,860	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,740 1,670 3,470 1,580 3,410 1,590	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *1,200 *1,200 *1,200 *1,320 *1,320 *1,3300 *1,3300 *1,630 *1,630 *3,620 *1,820 *1,820 *1,820 *2,070 *4,610 *2,470 *5,470 *3,020 *6,820	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,320 *2,900 1,330 2,940 1,330 2,940 1,370 3,020 1,430 3,170 1,430 3,170 1,430 3,420 3,830 1,990 4,470	$\begin{array}{c} 15.85\text{m} \\ 51.80\text{ft} \\ 16.44\text{m} \\ 53.80\text{ft} \\ 16.87\text{m} \\ 55.27\text{ft} \\ 17.16\text{m} \\ 56.25\text{ft} \\ 17.31\text{m} \\ 56.25\text{ft} \\ 17.31\text{m} \\ 56.85\text{ft} \\ 17.21\text{m} \\ 56.48\text{ft} \\ 16.97\text{m} \\ 55.66\text{ft} \\ 16.58\text{m} \\ 54.36\text{ft} \\ 16.05\text{m} \\ 52.55\text{ft} \\ 15.34\text{m} \\ 50.17\text{ft} \\ 14.45\text{m} \\ 47.14\text{ft} \\ 13.33\text{m} \\ 43.32\text{ft} \end{array}$
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 0 ft lb -1.5 m kg -5 ft lb -3 m kg -10 ft lb -4.5 m kg -15 ft lb -6 m kg -20 ft lb -7.5 m kg -25 ft lb -7.5 m kg -7.5 ft lb -7.5 m kg -7.5 ft lb -7.5 m kg -7.5 ft lb -7.5	*9,760 *5,090 *11,020 *5,620 *12,180 *6,060 12,820 12,820 12,540 5,760 12,420 5,770 12,460 5,850 12,650	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430 7,390 3,310 7,130 3,250 7,020 3,270 7,060 3,340	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,720 4,870 10,720 4,800 10,360 4,700 10,360 4,650 10,020 4,650 10,050 4,720	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,930 5,980 2,680 5,670 2,660 5,670 2,640 5,700 2,640	*6,680 *3,320 *7,240 *3,610 *3,900 *8,490 *4,180 *9,090 4,110 8,850 3,980 8,590 3,980 8,590 3,980 8,410 3,870 8,340 3,880 8,380 8,380 8,380 8,380 8,380	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410 5,180 2,290 4,930 2,210 4,930 2,210 4,700 2,190 4,740 2,190 4,740 2,260	*5,940 *2,800 *6,140 *3,130 *6,450 *3,130 *3,340 *3,350 *7,740 3,570 7,690 3,450 7,440 3,370 7,250 3,310 7,140 3,290 7,110 3,220	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 4,290 1,910 4,110 1,860 4,000 1,840 3,980 1,870	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,560 3,120 6,700 3,020 6,500 2,940 6,500 2,940 6,210 2,850 6,210 2,850 6,160 2,860	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,740 1,670 3,470 1,580 3,410 1,590	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *1,220 *1,220 *1,320 *1,320 *1,300 *1,300 *1,500 *3,310 *1,500 *3,310 *1,630 *1,630 *1,820 *4,610 *2,070 *4,610 *2,440 *3,310	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,320 *2,900 1,330 2,940 1,330 2,940 1,370 3,020 1,430 3,170 1,540 3,430 1,720 3,830 1,990 4,470	$\begin{array}{c} 15.85\text{m} \\ 51.80\text{ft} \\ 16.44\text{m} \\ 53.80\text{ft} \\ 16.87\text{m} \\ 55.27\text{ft} \\ 17.16\text{m} \\ 56.25\text{ft} \\ 17.31\text{m} \\ 56.25\text{ft} \\ 17.31\text{m} \\ 56.85\text{ft} \\ 17.21\text{m} \\ 56.48\text{ft} \\ 16.97\text{m} \\ 55.66\text{ft} \\ 16.58\text{m} \\ 54.36\text{ft} \\ 16.95\text{m} \\ 52.55\text{ft} \\ 15.34\text{m} \\ 50.17\text{ft} \\ 15.34\text{m} \\ 47.14\text{ft} \\ 13.33\text{m} \\ \end{array}$
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb -1.5 m kg -10 ft lb -3 m kg -15 ft lb -3 m kg -15 ft lb -3 m kg -25 ft lb -7.5 m kg -25 ft lb -9 m kg -30 ft lb -9 m kg -30 ft lb	*9,760 *5,090 *11,020 *5,620 *12,180 *12,180 *13,130 5,950 12,820 12,540 5,760 12,420 5,770 12,420 5,770 12,4650 *5,580 *5,580 *11,910	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430 7,390 3,430 7,390 3,310 7,130 3,250 7,020 3,270 3,270 3,240 3,340 7,240 3,490	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970 10,720 4,800 10,360 4,700 10,130 4,650 10,020 4,650 10,020 4,650 10,020 4,720 10,220 *4,640	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,780 5,980 2,680 5,770 2,680 5,770 2,660 5,770 2,640 5,700 2,700 2,700 2,700 2,700 2,700 2,700	*6,680 *3,320 *7,240 *3,610 *3,900 *8,490 *4,180 *9,090 4,110 8,850 3,980 8,590 3,980 8,590 3,980 8,410 3,870 8,340 3,880 8,380 8,380 8,380 8,380 8,380	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410 5,180 2,290 4,930 2,210 4,930 2,210 4,700 2,190 4,740 2,190 4,740 2,260	*5,940 *2,800 *6,140 *3,130 *6,450 *3,130 *3,340 *3,350 *7,740 3,570 7,690 3,450 7,440 3,370 7,250 3,310 7,140 3,290 7,110 3,220	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 4,290 1,910 4,110 1,860 4,000 1,840 3,980 1,870	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,560 3,120 6,700 3,020 6,500 2,940 6,500 2,940 6,210 2,850 6,210 2,850 6,160 2,860	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,740 1,670 3,470 1,580 3,410 1,590	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *2,630 *1,260 *1,260 *1,260 *1,320 *1,320 *1,330 *1,500 *3,310 *3,310 *3,620 *1,820 *3,620 *1,820 *2,470 *2,440 *2,440 *3,920 *3,920 *5,470 *3,920	*2,630 *1,180 *2,610 *1,190 *2,630 *1,220 *1,220 *1,220 *1,220 *2,940 *1,220 *2,940 1,330 2,940 1,330 2,940 1,330 1,330 1,430 3,170 1,540 3,430 1,540 3,430 1,990 4,470 2,430 5,520	$\begin{array}{c} 15.85m\\ 51.80ft\\ 16.44m\\ 53.80ft\\ 16.87m\\ 55.27ft\\ 17.16m\\ 56.25ft\\ 17.31m\\ 56.25ft\\ 17.31m\\ 56.85ft\\ 17.21m\\ 56.85ft\\ 16.97m\\ 55.66ft\\ 16.58m\\ 54.36ft\\ 16.58m\\ 52.55ft\\ 15.34m\\ 50.17ft\\ 14.45m\\ 47.14ft\\ 13.33m\\ 43.32ft\\ 11.91m\end{array}$
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb -1.5 m kg -10 ft lb -3 m kg -10 ft lb -4.5 m kg -15 ft lb -6 m kg -25 ft lb -9 m kg -30 ft lb -9 m kg -30 ft lb	*9,760 *5,090 *11,020 *5,620 *12,180 *12,180 *13,130 5,950 12,820 12,540 5,760 12,420 5,770 12,420 5,770 12,4650 *5,580 *5,580 *11,910	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 7,430 7,390 3,310 7,130 3,250 7,020 3,270 7,060 7,060 7,060 7,240 3,340 7,240 3,490 7,580	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970 10,720 4,800 10,360 4,700 10,130 4,650 10,020 4,650 10,020 4,650 10,020 4,720 10,220 *4,640	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,780 5,980 2,680 5,770 2,680 5,770 2,660 5,770 2,640 5,700 2,700 2,700 2,700 2,700 2,700 2,700	*6,680 *3,320 *7,240 *3,610 *3,900 *8,490 *4,180 *9,090 4,110 8,850 3,980 8,590 3,980 8,590 3,980 8,410 3,870 8,340 3,880 8,380 8,380 8,380 8,380 8,380	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410 5,180 2,290 4,930 2,210 4,930 2,210 4,700 2,190 4,740 2,190 4,740 2,260	*5,940 *2,800 *6,140 *3,130 *6,450 *3,130 *3,340 *3,350 *7,740 3,570 7,690 3,450 7,440 3,370 7,250 3,310 7,140 3,290 7,110 3,220	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 4,290 1,910 4,110 1,860 4,000 1,840 3,980 1,870	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,560 3,120 6,700 3,020 6,500 2,940 6,500 2,940 6,210 2,850 6,210 2,850 6,160 2,860	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,740 1,670 3,470 1,580 3,410 1,590	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,610 *1,190 *2,630 *1,260 *1,260 *1,260 *1,320 *1,330 *1,500 *3,300 *1,500 *3,310 *3,620 *1,820 *4,030 *2,070 *4,610 *2,440 *5,470 *3,920 *3,920 *3,920 *3,800 *3,8400	*2,630 *1,180 *2,610 *2,630 *1,220 *2,680 *1,220 *2,900 1,320 1,330 2,930 1,330 2,930 1,330 2,940 1,370 3,020 1,430 3,170 1,540 3,430 1,540 3,430 1,990 1,990 2,430 5,520	$\begin{array}{l} 15.85m\\ 51.80ft\\ 16.44m\\ 53.80ft\\ 16.87m\\ 55.27ft\\ 17.16m\\ 55.27ft\\ 17.31m\\ 56.25ft\\ 17.31m\\ 56.85ft\\ 17.21m\\ 56.48ft\\ 16.97m\\ 55.66ft\\ 16.97m\\ 54.36ft\\ 16.05m\\ 52.55ft\\ 15.34m\\ 50.17ft\\ 13.33m\\ 47.14ft\\ 13.33d\\ t\\ 11.91m\\ 38.47ft\\ \end{array}$
10.2 m LR, 33'6" Arm : 7.9 m LR, 25'9" Shoe : 800 mm, 32" CWT : 6,900 kg,	7.5 m kg 25 ft lb 6.0 m kg 20 ft lb 4.5 m kg 15 ft lb 3.0 m kg 0 ft lb 1.5 m kg 5 ft lb 0 m kg 0 ft lb -1.5 m kg -10 ft lb -3 m kg -10 ft lb -4.5 m kg -15 ft lb -6 m kg -20 ft lb -7.5 m kg -20 ft lb -7.5 m kg -30 ft lb -9 m kg -30 ft lb -10.5 m kg -35 ft lb -9 m kg -30 ft lb -10.5 m kg -35 ft lb -10.5 m kg -35 ft lb -10.5 m kg -35 ft lb -10.5 m kg -35 ft lb	*9,760 *5,090 *11,020 *5,620 *12,180 *12,180 *13,130 5,950 12,820 12,540 5,760 12,420 5,770 12,460 12,450 *5,580 *11,910 *4,560	*9,760 4,260 9,210 3,910 8,440 3,630 7,830 3,430 7,390 3,310 7,130 3,250 7,020 3,270 7,020 3,270 7,020 3,270 7,020 3,240 3,490 7,240 3,490 7,580 3,740	*7,770 *3,980 *8,640 *4,390 *9,520 *4,770 *10,350 4,970 10,720 4,800 10,360 4,700 10,130 4,650 10,020 4,650 10,020 4,650 10,020 4,720 10,220 *4,640	*7,770 3,660 7,900 3,390 7,300 3,140 6,770 2,930 6,320 2,780 5,980 2,680 5,770 2,680 5,770 2,660 5,770 2,640 5,700 2,700 2,700 2,700 2,700 2,700 2,700	*6,680 *3,320 *7,240 *3,610 *3,900 *8,490 *4,180 *9,090 4,110 8,850 3,980 8,590 3,980 8,590 3,980 8,410 3,870 8,340 3,880 8,380 8,380 8,380 8,380 8,380	*6,680 3,120 6,720 2,930 6,310 2,740 5,890 2,560 5,510 2,410 5,180 2,290 4,930 2,210 4,930 2,210 4,700 2,190 4,740 2,190 4,740 2,260	*5,940 *2,800 *6,140 *3,130 *6,450 *3,130 *3,340 *3,350 *7,740 3,570 7,690 3,450 7,440 3,370 7,250 3,310 7,140 3,290 7,110 3,220	*5,940 2,740 5,860 2,630 5,640 2,510 5,380 2,370 5,090 2,240 4,800 2,110 4,530 4,290 1,910 4,110 1,860 4,000 1,840 3,980 1,870	*3,990 *2,530 *5,160 *2,870 *6,550 *3,140 *6,560 3,120 6,700 3,020 6,500 2,940 6,500 2,940 6,210 2,850 6,210 2,850 6,160 2,860	*3,990 2,170 4,630 2,110 4,500 2,020 4,330 1,930 4,130 1,830 3,930 1,750 3,740 1,670 3,740 1,670 3,470 1,580 3,410 1,590	*2,900 *2,080 *3,880 *2,360 *4,500 *4,500 *4,830 *2,560 *4,790 *2,370 *4,180	*2,900 1,630 3,460 1,570 3,340 1,510 3,220 1,450 3,100 1,400 3,010	*2,630 *1,180 *2,630 *1,190 *1,220 *1,220 *1,320 *1,320 *1,320 *1,330 *1,500 *3,310 *1,630 *1,630 *1,630 *1,630 *1,630 *1,630 *4,030 *4,030 *2,070 *4,610 *2,070 *4,610 *2,440 *5,470 *3,802 *3,800 *3,840 *3,840	*2,630 *1,180 *2,610 *1,190 *1,220 *1,220 *1,220 *1,320 1,330 2,940 1,330 2,940 1,330 2,940 1,370 3,020 1,330 3,170 1,540 3,430 1,540 3,430 1,720 3,830 1,990 4,470 2,430 5,520 7,510 *3,650	15.85 m 51.80 ft 16.44 m 53.80 ft 16.87 m 55.27 ft 17.16 m 56.25 ft 17.31 m 56.77 ft 17.33 m 56.85 ft 17.21 m 55.66 ft 16.97 m 55.66 ft 16.58 m 54.36 ft 16.35 m 52.55 ft 15.34 m 50.17 ft 14.45 m 43.32 ft 11.91 m 38.47 ft 10.07 m 32.12 ft

# Equipment

STANDARD EQUIPMENT
Engine
Turbocharged, 4 stroke diesel engine with water cooling, direct injection
and charged air cooler that meets EU Stage V requirements
Air filter with indicator
Air intake heater
Cyclone precleaner
Electric engine shutoff
Fuel filter and water separator
Delayed engine shutdown
Alternator, 80 A
Electric / Electronic control system
Advanced mode control system
Selfdiagnostic system
Machine status indication
Engine speed sensing power control
Automatic idling system
Onetouch power boost Safety stop/start function
Adjustable LCD color monitor
Master electrical disconnect switch
Engine restart prevention circuit
Highcapacity halogen lights:
- Frame-mounted 2
- Boom-mounted 1
Extra work lights(Halogen) :
Cab-mounted 3
Boom-mounted 1
Batteries, 2 x 12 V / 170 A
Start motor, 24 V / 5.5 kW
Travel alarm
Quick engine oil change system
Frame
Access way with handrail
Tool storage area
Punched metal antislip plates
Counterweight:
13,670 lb
15,210 lb Long Reach
Undercarriage
Undercover (heavyduty)
Hydraulic track adjusters
Greased and sealed track link
Track Guard
Hydraulic system
Boom up swing priority function
Boom travel priority function (Creep)
Boom down speed control
Attachment management system (up to 32 programmable memories)
- Variable flow and pressure pre-setting
Hammer & shear, 2 pump flow Additional return filter (Hammer & shear piping
Additional return filter (Hammer & shear piping Boom float function without HRV
Straight travel pedal
Automatic sensing hydraulic system
Summation system
Boom priority
Arm priority
Swing priority
ECO mode fuel saving technology
Boom, arm and bucket regeneration valves
Swing antirebound valves
Boom and arm holding valves
Multistage filtering system
Cylinder cushioning
Cylinder contamination seals
Auxiliary hydraulic valve
Automatic twospeed travel motors
Hydraulic oil, ISO VG 46
Quick hydraulic oil fill connection
Quick coupler piping

STANDARD EQUIPMENT
Cab and interior
ROPS (ISO121172) certified cab
Opening top hatch
Silicon oil and rubber mounts with spring
Travel pedals and hand levers
Adjustable operator seat and joystick control console
Heater & airconditioner, automatic
Flexible antenna
Radio with MP3 & USB Jack with bluetooth
Hydraulic safety lock lever
Cab, allweather sound suppressed, includes:
Cup holders
Door locks
Tinted glass
Floor mat
Horn
Large storage area
Pullup type front window
Removable lower windshield
Seat belt
Safety glass
Sun screens, front, roof, rear
Rain shield
Windshield wiper with intermittent feature
Volvo smart view
Master key
Track shoes
32" with triple grousers
Digging equipment
Linkage with lifting eye
Boom: 20'4" monoblock
Arm: 10'0"
Boom: 33'6" monoblock, Long Reach
Arm: 25'11", Long Reach
Manual centralized lubrication
Machine controls
Dig Assist

Volvo Active Control (Semi-autonomous)

OPTIONAL EQUIPMENT
Engine
Block heater: 120 V, 240 V
Oil bath pre-cleaner
Diesel coolant heater, 10 kW
Water separator with heater
Auto engine shutdown
Reversible fan
Fuel filler pump: 13.2 gpm, with automatic shutoff
Electric
Extra work lights(LED):
Cab-mounted 3
Boom-mounted 1
Counterweight-mounted 1
Green light beacon
Anti-theft system
Rotating warning beacon
Smart connect for tilt rotator
Tilt rotator 3rd gen
Dig assist, smart connect
Undercarriage
Full track guard
Track shoes
24/28/36" with triple grousers
24" HD with triple grousers
24/28" with double grousers
High walker undercarriage

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT
Hydraulic system	Cab and interior
CDC, Comfort Driving Control	High visibility cabin
Hose rupture valve: boom & arm	Fabric seat with heater
Overload warning device	Fabric seat with heater and air suspension
Boom float function with HRV	Deluxe seat
Hydraulic piping:	High-strength one piece front windshield (P5A)
- Slope & rotator	Falling object guard, FOG (fixed type or hinge type)
- Grapple	Frame-mounted
- Oil leak (drain) line	Cab-mounted
Volvo hydraulic quick coupler S2	Cab-mounted falling object protective structure (FOPS)
Volvo hydraulic quick coupler U30 / U35	Side view camera
Volvo hydraulic quick coupler SQ70 55	Smoker kit (ashtray and lighter)
Volvo hydraulic quick coupler SQ70	Safety net for front window
Hydraulic oil, biodegradable 46	Lower wiper with intermittent control
Hydraulic oil, longlife oil 32	Anti-vandalism kit
Hydraulic oil, longlife oil 46	Air pressure supply in cabin
Fuel tank-fast fuel fill prep	Rear view camera
Hammer & shear, 1 pump flow	Control joysticks with 4 switches
3-way selection valve	Propotional joysticks with 3 switches
	Digging equipment
	Arm: 8'4" HD, 10'0", HD, 12'2"
	Arm: 25'11", long reach
	Service
	Tool kit, daily maintenance

Tool kit, full scale

Other

### SELECTION OF VOLVO OPTIONAL EQUIPMENT

Deluxe seat



#### TiltRotator



Hybrid



#### Oil drain line



Reversible cooling fan

Hybrid: Please refer to separate Brochure for more details



High-visibility cab



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

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