Volvo Excavators 41.8-43.3 t 344 hp

EC300, EC400
STRAIGHT BOOM

Volvo Construction Equipment

EC300, EC400
STRAIGHT BOOM

The EC300 Straight Boom and EC400 Straight Boom crawler excavator is configured to deliver the highest levels of performance and safety in demolition applications, all while retaining the quality and comfort from its standard counterpart.

From E to F-generation: top news

EC400 Straight boom vs EC380E Straight Boom, EC300 Straight Boom vs EC300E Straight Boom
- Up to 14% higher fuel efficiency
- 10% more engine power
- +1 000 hr service intervals on hydraulic oil and return filter
- New state-of-the-art cab environment
- Dig Assist suite of tools enabled: Boundary Limits, On-Board Weighing, In-Field Design
- New features, including Auto Power Boost, boom and arm shock reduction, ability to adjust boom down speed plus set boom/swing and boom/travel priority
- Optimized positioning of water spraying nozzles to capture dust at earliest
- Bigger X1 return line for faster attachment movements

Made for demolition

The Volvo straight boom excavator offers 30% better pin height over digging-biased models, ultimate protection against falling debris and a clear view of the jobsite. These, combined with outstanding stability and a durable design, make it the perfect choice for efficient demolition projects.

Dust suppression system

The unique factory-fit system from Volvo captures dust, removing the need for a separate truck for pumping water

- 30 liters per minute water pump
- Four nozzles fitted on the arm create a fine mist which encapsulates the dust
- Selectable Auto/Manual mode
- Can also be used for cleaning the machine, with a high-pressure water gun mounted behind the cab

High visibility, protected cab

Industry renowned Volvo cab comfort combines additional features to protect the operator and secure efficient demolition

- Frame-mounted Falling Object Guards – opening of front guard eases window cleaning
- Roll Over Protection Structure
- 12 mm thick single-piece front window and top window
- Washer and wiper on front and top windows
- Standard LED lights on the cab, platform, counterweight and boom

Specialist work equipment

Fully equipped boom and arm, designed for productivity

- 7.0 meter straight boom: 30% increase in pin height compared to standard boom design
- Dedicated arms
- X1 and X3 auxiliary piping, including case drain line to protect the attachment
- Quick fit and oil drain line: fast attachment change
- Water lines for dust suppression system

Reversible cooling fan

Protects vital machine components from damage through overheating in dusty demolition environments

- Reversible functionality enables self-cleaning, reducing maintenance requirements and machine downtime
- Customizable settings: manual or auto modes

Heavy duty protection

Protecting your investment

- Boom and bucket cylinders protection
- Heavy-duty side doors with screens and louvers
- Slew ring cover
- Side Impact Protection Structure
- Heavy-Duty or eXtreme-Duty undercover
- Heavy-Duty belly cover
- Full track guard

Heavy counterweight

Outstanding stability, yet easy to transport

- 1 200 kg heavier counterweight than on standard excavator
- Hydraulically removable to facilitate transportation (not applicable to EC300 Straight Boom)

Volvo EC300, EC400 Straight Boom 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, high pressure fuel injectors, turbo charger and intercooler, and electronic engine controls to optimize machine performance.
Air Filter: 3-stage and precleaner
Automatic Idling System: Reduces engine speed to idle when the levers and pedals are not activated resulting in less fuel consumption and low cab noise levels.

		EC300 SB	EC400 SB
Engine	Volvo	D8M	D13J
Max power at	r/min	1 600	1 600
Net, ISO 9249/SAE J1349	kW	188	252
	hp	256	343
Gross, ISO 14396/SAE J1995	kW	189	253
	hp	257	344
Max torque	Nm	1 290	1 975
at engine speed	r/min	1 400	1 200
No. of cylinders		6	6
Displacement	l	7.7	12.8
Bore	mm	110	131
Stroke	mm	135	158

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.

		EC300 SB	EC400 SB
Voltage	V	24	24
Batteries	V	2 x 12	2 x 12
Battery capacity	Ah	170	200
Alternator	V/A	28	28
Alternator rating	V - kW	28	-
Start motor	V - kW	24	-

Undercarriage and structures

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

		EC300 SB	EC400 SB
Track shoe		2 x 50	2 x 50
Link pitch	mm	203	216
Shoe width	mm	600	600 / 700 / 800 / 900
Shoe width, triple grouser (HD)	mm	600	600
Shoe width, double grouser	mm	600 / 700	600
Bottom rollers		2 x 9	600
Top rollers		2 x 2	2 x 9

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.

		EC300 SB	EC400 SB
Max. slew speed	r/min	11	9.8
Max. slew torque	kNm	115	131

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.

		EC300 SB	EC400 SB
Max. drawbar pull	kN	248	277
Max. travel speed (low)	km/h	2.2	2.1
Max. travel speed (high)	km/h	3.6	3.3
Gradeability	°	35	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.
Integrated air-conditioning and heating system: The pressurized and filtered cab air is supplied by an automatically-controlled fan. The air is distributed throughout the cab from 10vents.
Ergonomic operator's seat: The adjustable seat and joystick console move independently to accommodate the operator. The seat has nine different adjustments plus a seat belt for the operator's comfort and safety.

Sound Level

		EC300 SB	EC400 SB
Sound level in cab according to ISO 6396			
L_{pA}	dB	70	71
External sound level according to ISO 6395			
L_{WA}	dB	104	106

Service Refill

		EC300 SB	EC400 SB
Fuel tank	l	440	600
DEF/AdBlue® tank	l	50	45
Hydraulic system, total	l	385	440
Hydraulic tank	l	215	200
Engine oil	l	30	55
Engine coolant	l	44	60
Slew reduction unit	l	6	6.5
Travel reduction unit	l	2 x 6.0	2 x 6.8

Hydraulic System

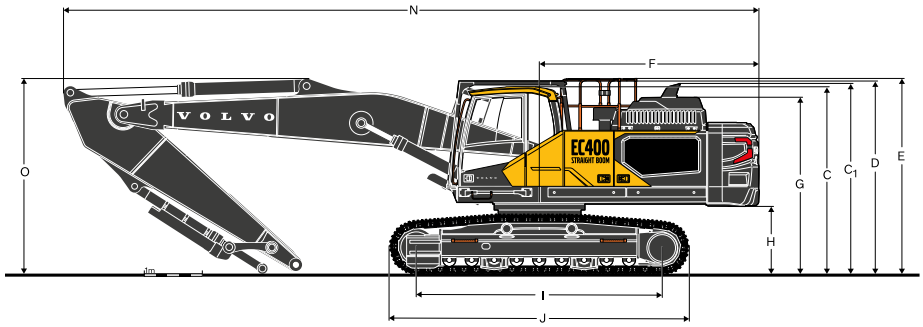
The hydraulic system, also known as the "Automatic Sensing Work Mode," is designed for high-productivity, high-digging capacity, high-maneuvering precision and excellent fuel economy. The summation system, boom, arm and swing priority along with boom and arm regeneration provides optimum performance.
The following important functions are included in the system:
Summation system: Combines the flow of both hydraulic pumps to ensure quick cycle times and high productivity.
Boom priority: Gives priority to the boom operation for faster raising when loading or performing deep excavations.
Arm priority: Gives priority to the arm operation for faster cycle times in leveling and for increased bucket filling when digging.
Swing priority: Gives priority to swing functions for faster simultaneous operations.
Regeneration system: Prevents cavitation and provides flow to other movements during simultaneous operations for maximum productivity.
Power boost: All digging and lifting forces are increased.
Holding valves: Boom and arm holding valves prevent the digging equipment from creeping.

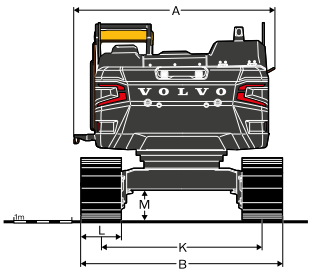
		EC300 SB	EC400 SB
2 x Variable displacement axial piston pumps			
Maximum flow	l/min	2 x 276	2 x 288
Gear pump			
Maximum flow	l/min	1 x 20.3	1 x 26.7
Max. pressure			
Implement	MPa	33.3 / 36.3	32.4 / 35.3
Travel circuit	MPa	36.3	35.3
Slew circuit	MPa	28.9	27.5
Pilot circuit	MPa	3.9	3.9

Hydraulic Cylinders

		EC300 SB	EC400 SB
Mono boom		2	2
Bore x Stroke	ø x mm	140 x 1 480	160 x 1 530
Arm		1	1
Bore x Stroke	ø x mm	150 x 1 745	175 x 1 700
Bucket		1	1
Bore x Stroke	ø x mm	140 x 1 140	145 x 1 285
ME Bucket		-	1
Bore x Stroke	ø x mm	-	160 x 1 250

Specifications





DIMENSIONS

	Unit	EC300F Straight Boom L	EC300F Straight Boom NL
Boom	**m**	**7.0**	
Arm	**m**	**3.05**	
A. Overall width of upper structure*	mm	2 890	2 890
B. Overall width**	mm	3 190	2 990
C. Overall height of cab***	mm	3 110	3 110
C1. Overall height of FOG	mm	3 215	3 215
D. Overall height of handrail	mm	3 205	3 205
E. Overall height of guardrail	mm	3 470	3 470
F. Tail swing radius	mm	3 125	3 125
G. Overall height of engine hood	mm	2 920	2 920
H. Counterweight clearance *	mm	1 135	1 135
I. Tumbler length	mm	4 015	4 015
J. Track length	mm	4 865	4 865
K. Track gauge	mm	2 590	2 590
L. Shoe width	mm	600	600
M. Min. ground clearance *	mm	475	475
N. Overall length	mm	11 175	11 175
O. Overall height of boom	mm	3 135	3 135

*Exclude walkway, handrail
** Shoe end to end
*** With shoe grouser

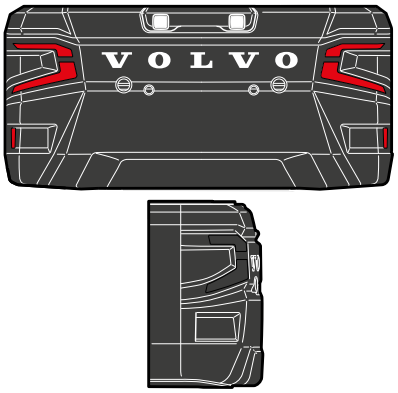
DIMENSIONS

	Unit	EC400F Straight Boom	
Boom	**m**	**7.0**	
Arm	**m**	**3.2**	**3.9**
A. Overall width of upper structure*	mm	3 400	3 400
B. Overall width**	mm	3 340	3 340
C. Overall height of cab***	mm	3 240	3 240
C1. Overall height of FOG	mm	3 330	3 330
D. Overall height of handrail	mm	3 360	3 360
E. Overall height of guardrail	mm	3 360	3 360
F. Tail swing radius	mm	3 600	3 600
G. Overall height of engine hood	mm	3 000	3 000
H. Counterweight clearance *	mm	1 190	1 190
I. Tumbler length	mm	4 240	4 240
J. Track length	mm	5 180	5 180
K. Track gauge	mm	2 740	2 740
L. Shoe width	mm	600	600
M. Min. ground clearance *	mm	480	480
N. Overall length	mm	11 891	11 800
O. Overall height of boom	mm	3 416	3 870

*Exclude walkway, handrail
** Shoe end to end
*** With shoe grouser

COUNTERWEIGHT EC300F SB		
	Unit	
Length	mm	610
Width	mm	2 891
Height	mm	1 357
Weight	kg	6 900

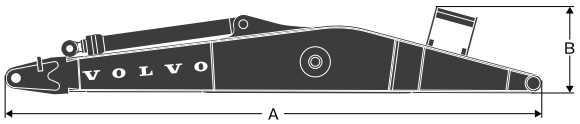
COUNTERWEIGHT EC400F SB		
	Unit	
Length	mm	902
Width	mm	2 985
Height	mm	1 430
Weight	kg	9 200

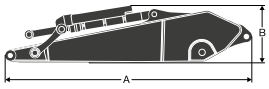


TOOL WEIGHT GUIDELINE EC300F SB			
Lower frame	**Unit**	**EC300F SB L**	**EC300F SB NL**
Boom	**m**	**7.0**	**7.0**
Arm	**m**	**3.05**	**3.05**
CWT	ton	6.9	6.9
Breaker	kg	2 400	2 100
Crusher	kg	3 100	2 800
Multiprocessor	kg	2 700	2 500
Shear	kg	2 400	2 100
Sort & Grab	kg	1 700	1 500

TOOL WEIGHT GUIDELINE EC400F SB					
Lower frame	**Unit**	**EC400F SB L**		**EC400F SB NL**	
Boom	**m**	**7.0**		**7.0**	
Arm	**m**	**3.2**	**3.9**	**3.2**	**3.9**
CWT	ton	10		10	
Breaker	kg	3 600	3 500	3 200	3 100
Crusher	kg	4 800	4 600	4 200	4 100
Multiprocessor	kg	4 200	4 000	3 600	3 500
Sort & Grab	kg	2 600	2 600	2 300	2 200

Specifications





DIMENSIONS EC300F Straight Boom

Description	Unit	Boom	Description	Unit	Arm
	m	7.0 SB		m	3.05 HD
A. Length	mm	7 225	A. Length	mm	4 145
B. Height	mm	1 060	B. Height	mm	1 010
Width	mm	765	Width	mm	560
Weight	kg	3 020	Weight	kg	1 930
		* Includes cylinder, piping and pin, excludes boom cyl. Pin			* Includes cylinder, piping and pin, excludes boom cyl. Pin

DIMENSIONS EC400F Straight Boom

Description	Unit	Boom	Description	Unit	Arm	
	m	7.0		m	3.2	3.9
A. Length	mm	7 260	A. Length	mm	4 350	5 050
B. Height	mm	1 195	B. Height	mm	1 090	1 110
Width	mm	832	Width	mm	440	440
Weight	kg	3 992	Weight	kg	2 080	2 285
		* Includes cylinder, piping and pin, excludes boom cyl. Pin			* Includes cylinder, piping and pin, excludes boom cyl. Pin	

Superstructure with boom cylinders, weight EC300F SB

Description	Unit	Superstructure
Weight	kg	9 750

Lower structure, weight EC300F SB

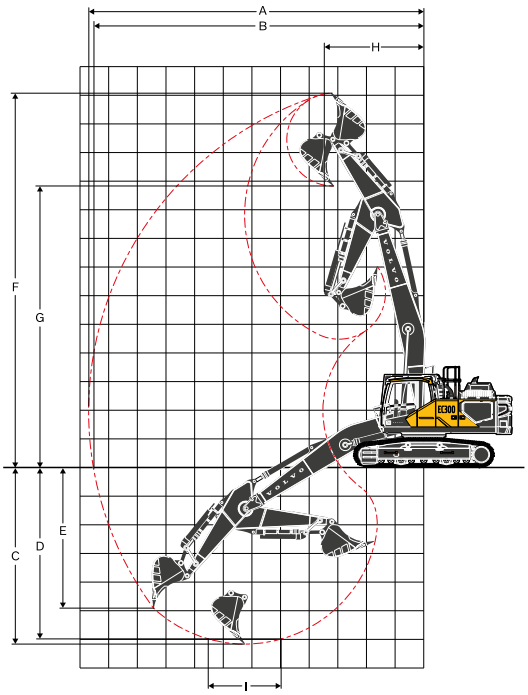
Description		Unit	Long crawler undercarriage	Narrow Long crawler undercarriage
Triple grouser	600 mm	kg	10 391	10 259
	600 mm (HD)	kg	10 601	10 469
	700 mm	kg	10 971	10 839
	800 mm	kg	11 331	11 199
	900 mm	kg	11 701	11 569
Double grouser	600 mm	kg	10 761	10 629
Single grouser	600 mm	kg	11 171	11 039

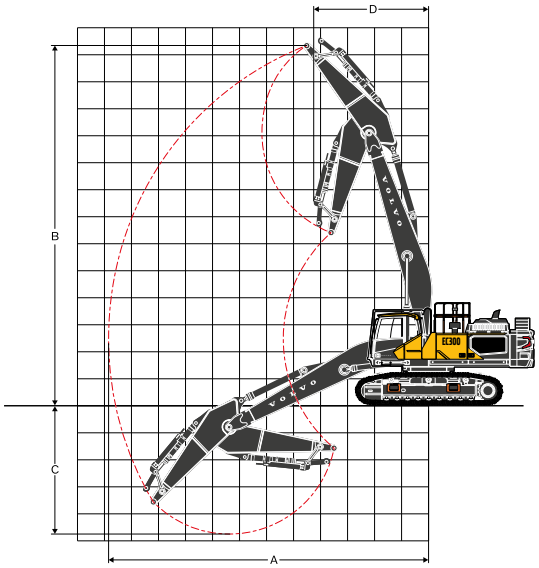
Superstructure with boom cylinders, weight EC400F SB

Description	Unit	Superstructure
Weight	kg	11 830

Lower structure, weight EC400F SB

Description		Unit	Long crawler undercarriage	Narrow Long crawler undercarriage
Triple grouser	600 mm	kg	13 060	12 660
	600 mm (HD)	kg	13 500	13 100
	700 mm	kg	13 510	13 110
	800 mm	kg	13 950	13 550
	900 mm	kg	14 400	14 000
Double grouser	600 mm double	kg	13 330	12 930
Single grouser	600 mm single	kg	13 130	12 730

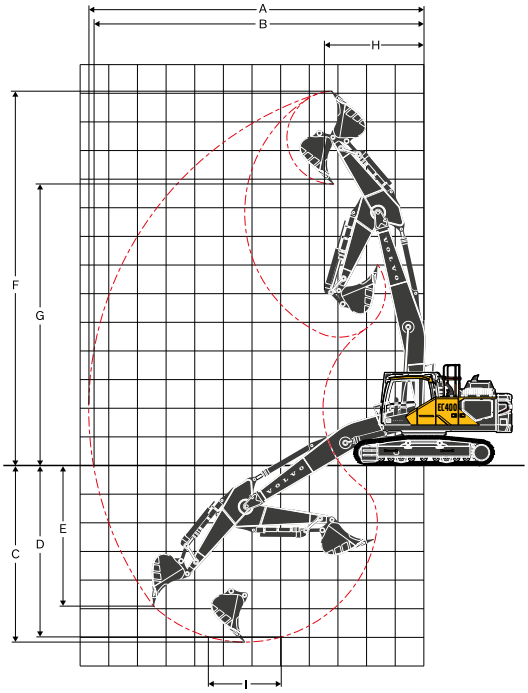


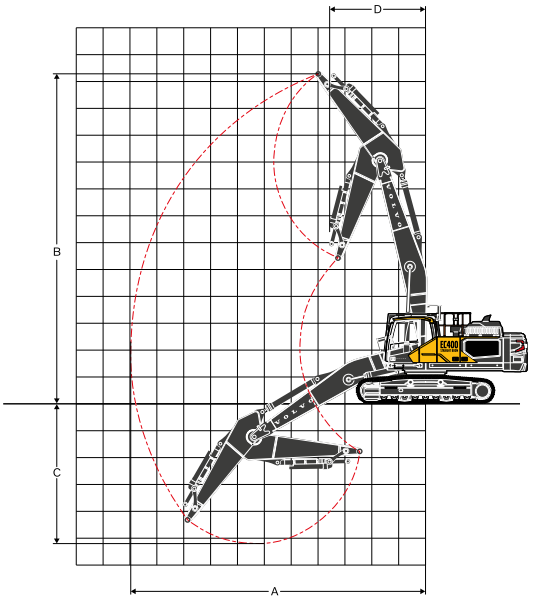


WORKING RANGES WITH DIRECT FIT BUCKET				
Description			**Unit**	**EC300F Straight Boom L/NL**
Boom			**m**	**7.0**
Arm			**m**	**3.05**
A. Max. digging reach			mm	11 760
B. Max. digging reach on ground			mm	11 580
C. Max. digging depth			mm	6 150
D. Max.digging depth (I=(2.44 m level)			mm	5 990
E. Max. vertical wall digging depth			mm	4 920
F. Max. cutting height			mm	13 155
G. Max. dumping height			mm	9 835
H. Min. front swing radius			mm	3 470
DIGGING FORCES WITH DIRECT FIT BUCKET				
Breakout force (bucket)	Normal	SAE J1179	kN	165
	Power boost	SAE J1179	kN	179
	Normal	ISO 6015	kN	190
	Power boost	ISO 6015	kN	207
Tearout force (arm)	Normal	SAE J1179	kN	133
	Power boost	SAE J1179	kN	144
	Normal	ISO 6015	kN	136
	Power boost	ISO 6015	kN	148
Rotation angle, bucket			°	179

WORKING RANGES WITH DIRECT FIT BUCKET		
Description	**Unit**	**EC300F Straight Boom**
Boom	**m**	**7.0**
Arm	**m**	**3.05**
A. Max. pin reach	mm	10 100
B. Max. pin height	mm	11 500
C. Max. pin depth	mm	4 500
D. Min. front slew radius	mm	3 050

Specifications





WORKING RANGES WITH DIRECT FIT BUCKET					
Description			**Unit**	**EC400F Straight Boom**	
Boom			**m**	**7.0**	
Arm			**m**	**3.2**	**3.9**
A. Max. digging reach			mm	12 004	12 652
B. Max. digging reach on ground			mm	11 810	12 468
C. Max. digging depth			mm	6 295	6 942
D. Max.digging depth (l=(2.44 m level)			mm	6 146	6 811
E. Max. vertical wall digging depth			mm	5 117	5 534
F. Max. cutting height			mm	13 396	13 956
G. Max. dumping height			mm	9 718	10 283
H. Min. front swing radius			mm	3 403	3 660
DIGGING FORCES WITH DIRECT FIT BUCKET					
Breakout force (bucket)	Normal	SAE J1179	kN	198	198
	Power boost	SAE J1179	kN	215	215
	Normal	ISO 6015	kN	222	222
	Power boost	ISO 6015	kN	243	243
Tearout force (arm)	Normal	SAE J1179	kN	162	142
	Power boost	SAE J1179	kN	177	154
	Normal	ISO 6015	kN	166	144
	Power boost	ISO 6015	kN	181	157
Rotation angle, bucket			°	178	178

WORKING RANGES WITH DIRECT FIT BUCKET			
Description	**Unit**	**EC400F Straight Boom**	
Boom	**m**	**7.0**	
Arm	**m**	**3.2**	**3.9**
A. Max. pin reach	mm	10 150	10823
B. Max. pin height	mm	11 572	12136
C. Max. pin depth	mm	4 400	5097
D. Min. front slew radius	mm	3 403	3660

MACHINE WEIGHTS AND GROUND PRESSURE

EC300F Straight Boom L

Description	Shoe width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm
Triple grouser	600	33 540	64.7	3 190
	600 (HD)	33 750	65.1	3 190
	700	34 120	56.4	3 290
	800	34 480	49.9	3 390
	900	34 850	44.8	3 490
Double grouser	600	33 910	65.4	3 190
Single grouser	600	34 320	56.8	3 290
		EC300F Straight Boom L, 7.0 m boom, 3.05 m arm, 1 546 kg bucket, 6 900 kg counterweight		

EC300F Straight Boom NL

Description	Shoe width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm
Triple grouser	600	33 408	64.5	2 990
	600 (HD)	33 618	64.9	2 990
	700	33 988	56.2	3 090
	800	34 348	49.7	3 190
	900	34 718	44.7	3 290
Double grouser	600	33 778	65.2	2 990
Single grouser	600	34 188	56.5	3 090
		EC300F Straight Boom NL, 7.0 m boom, 3.05 m arm, 1 546 kg bucket, 6 900 kg counterweight		

MACHINE WEIGHTS AND GROUND PRESSURE

EC400F Straight Boom L

Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
Triple grouser	600	42 848	76.6	3 340	43 054	77.0	3 340
	600 (HD)	43 289	77.4	3 340	43 495	77.8	3 340
	700	43 290	66.4	3 440	43 496	66.7	3 440
	800	43 732	58.7	3 540	43 938	58.9	3 540
	900	44 174	52.7	3 640	44 380	52.9	3 640
Double grouser	600	43 089	77.1	3 340	43 295	77.4	3 340
Single grouser	600	42 919	76.8	3 340	43 125	77.1	3 340
		EC400F Straight Boom L, 7.0 m GP boom, 3.2 m HD arm, 1 546 kg bucket, 10 250 kg counterweight			EC400F Straight Boom L, 7.0 m GP boom, 3.9 m HD arm, 1 546 kg bucket, 10 250 kg counterweight		

EC400F Straight Boom NL

Description	Shoe width	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
	mm	kg	kPa	mm	kg	kPa	mm
Triple grouser	600	42 433	75.9	2 990	42 639	76.3	2 990
	600 (HD)	43 095	77.1	2 990	43 095	77.1	2 990
	700	43 081	66.0	3 090	43 081	66.0	3 090
	800	43 523	58.4	3 190	43 523	58.4	3 190
	900	43 965	52.4	3 290	43 965	52.4	3 290
Double grouser	600	42 925	76.8	2 990	42 925	76.8	2 990
Single grouser	600	42 725	76.4	2 990	42 725	76.4	2 990
		EC400F Straight Boom NL, 7.0 m GP boom, 3.2 m HD arm, 1 546 kg bucket, 10 250 kg counterweight			EC400F Straight Boom NL, 7.0 m GP boom, 3.9 m HD arm, 1 546 kg bucket, 10 250 kg counterweight		

Specifications

LIFTING CAPACITY EC300F Straight Boom L

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		Max.
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m
Boom : 7.0 m Arm : 3.05 m Shoe : 600 mm CWT : 6 900 kg	10.5 m	kg											*8 580	*8 580	5.4
	9.0 m	kg					*9 360	*9 360					*6 890	6 660	7.2
	7.5 m	kg					*9 100	*9 100	*8 320	6 400			*6 180	5 100	8.5
	6.0 m	kg			*9 490	*9 490	*9 970	8 980	*8 490	6 270	7 180	4 570	*5 830	4 300	9.3
	4.5 m	kg					*10 840	8 450	*8 860	6 010	7 090	4 490	*5 700	3 860	9.8
	3.0 m	kg					*11 630	7 890	9 170	5 730	6 940	4 350	*5 740	3 630	10.1
	1.5 m	kg					*11 920	7 460	8 900	5 480	6 800	4 220	5 740	3 570	10.1
	0 m	kg					*11 490	7 240	8 720	5 320	6 710	4 140	5 890	3 650	9.9
	-1.5 m	kg			*12 110	11 100	*10 360	7 200	*8 250	5 280	*6 270	4 140	*5 360	3 910	9.5
	-3 m	kg	*9 210	*9 210	*9 930	*9 930	*8 500	7 300	*6 680	5 350			*4 480	4 450	8.7
	-4.5 m	kg	*5 060	*5 060	*6 390	*6 390	*5 600	*5 600	*3 490	*3 490			*2 970	*2 970	7.7
Boom : 7.0 m Arm : 3.05 m Shoe : 700 mm CWT : 6 900 kg	10.5 m	kg											*8 570	*8 570	5.4
	9.0 m	kg					*9 370	*9 370					*6 890	6 740	7.2
	7.5 m	kg					*9 100	*9 100	*8 330	6 480			*6 180	5 170	8.5
	6.0 m	kg			*9 490	*9 490	*9 980	9 080	*8 500	6 340	7 270	4 640	*5 830	4 370	9.3
	4.5 m	kg					*10 850	8 560	*8 870	6 090	7 180	4 550	*5 700	3 920	9.8
	3.0 m	kg					*11 650	8 000	*9 230	5 810	7 030	4 420	*5 730	3 690	10.1
	1.5 m	kg					*11 950	7 580	9 020	5 570	6 900	4 290	5 830	3 630	10.1
	0 m	kg					*11 520	7 360	8 850	5 410	6 810	4 210	*5 940	3 710	9.9
	-1.5 m	kg			*12 110	11 270	*10 390	7 320	*8 270	5 370	*6 280	4 210	*5 370	3 980	9.5
	-3 m	kg	*9 260	*9 260	*9 970	*9 970	*8 520	7 420	*6 700	5 440			*4 500	*4 500	8.7
	-4.5 m	kg	*5 100	*5 100	*6 420	*6 420	*5 620	*5 620	*3 510	*3 510			*2 990	*2 990	7.7
Boom : 7.0 m Arm : 3.05 m Shoe : 800 mm CWT : 6 900 kg	10.5 m	kg											*8 570	*8 570	5.4
	9.0 m	kg					*9 370	*9 370					*6 890	6 840	7.2
	7.5 m	kg					*9 100	*9 100	*8 330	6 570			*6 180	5 250	8.5
	6.0 m	kg			*9 490	*9 490	*9 980	9 200	*8 500	6 440	7 390	4 710	*5 830	4 440	9.3
	4.5 m	kg					*10 850	8 680	*8 870	6 190	7 300	4 630	*5 700	3 990	9.8
	3.0 m	kg					*11 650	8 120	*9 230	5 900	7 150	4 490	*5 730	3 760	10.1
	1.5 m	kg					*11 950	7 700	9 170	5 660	7 010	4 360	*5 920	3 690	10.1
	0 m	kg					*11 520	7 480	9 000	5 500	6 920	4 280	*5 940	3 780	9.9
	-1.5 m	kg			*12 110	11 450	*10 390	7 440	*8 270	5 460	*6 280	4 290	*5 370	4 050	9.5
	-3 m	kg	*9 260	*9 260	*9 970	*9 970	*8 520	7 540	*6 700	5 530			*4 500	*4 500	8.7
	-4.5 m	kg	*5 100	*5 100	*6 420	*6 420	*5 620	*5 620	*3 510	*3 510			*2 990	*2 990	7.7
Boom : 7.0 m Arm : 3.05 m Shoe : 900 mm CWT : 6 900 kg	10.5 m	kg											*8 570	*8 570	5.4
	9.0 m	kg					*9 370	*9 370					*6 890	*6 890	7.2
	7.5 m	kg					*9 100	*9 100	*8 330	6 630			*6 180	5 300	8.5
	6.0 m	kg			*9 490	*9 490	*9 980	9 280	*8 500	6 500	7 470	4 760	*5 830	4 490	9.3
	4.5 m	kg					*10 850	8 760	*8 870	6 250	7 380	4 680	*5 700	4 030	9.8
	3.0 m	kg					*11 650	8 200	*9 230	5 960	7 230	4 540	*5 730	3 800	10.1
	1.5 m	kg					*11 950	7 780	9 270	5 720	7 090	4 410	*5 920	3 730	10.1
	0 m	kg					*11 520	7 560	*9 090	5 570	7 000	4 330	*5 940	3 820	9.9
	-1.5 m	kg			*12 110	11 580	*10 390	7 520	*8 270	5 520	*6 280	4 340	*5 370	4 100	9.5
	-3 m	kg	*9 260	*9 260	*9 970	*9 970	*8 520	7 620	*6 700	5 600			*4 500	*4 500	8.7
	-4.5 m	kg	*5 100	*5 100	*6 420	*6 420	*5 620	*5 620	*3 510	*3 510			*2 990	*2 990	7.7

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 EC300F Straight Boom L

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		Max.
			Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	Along UC	Across UC	m
Boom : 7.0 m Arm : 3.05 m Shoe : 600 mm CWT : 6 900 kg	10.5 m	kg											*8 570	*8 570	5.4
	9.0 m	kg					*9 370	*9 370					*6 890	6 640	7.2
	7.5 m	kg					*9 100	*9 100	*8 330	6 390			*6 180	5 090	8.5
	6.0 m	kg			*9 490	*9 490	*9 980	8 950	*8 500	6 250	7 160	4 560	*5 830	4 290	9.3
	4.5 m	kg					*10 850	8 430	*8 870	6 000	7 060	4 480	*5 700	3 850	9.8
	3.0 m	kg					*11 650	7 870	9 150	5 720	6 920	4 340	*5 730	3 630	10.1
	1.5 m	kg					*11 950	7 450	8 870	5 470	6 780	4 210	5 730	3 560	10.1
	0 m	kg					*11 520	7 240	8 700	5 320	6 690	4 140	5 870	3 640	9.9
	-1.5 m	kg			*12 110	11 090	*10 390	7 190	*8 270	5 270	*6 280	4 140	*5 370	3 910	9.5
	-3 m	kg	*9 260	*9 260	*9 970	*9 970	*8 520	7 290	*6 700	5 350			*4 500	4 440	8.7
	-4.5 m	kg	*5 100	*5 100	*6 420	*6 420	*5 620	*5 620	*3 510	*3 510			*2 990	*2 990	7.7
Boom : 7.0 m Arm : 3.05 m Shoe : 700 mm CWT : 6 900 kg	10.5 m	kg											*8 570	*8 570	5.4
	9.0 m	kg					*9 370	*9 370					*6 890	6 720	7.2
	7.5 m	kg					*9 100	*9 100	*8 330	6 460			*6 180	5 150	8.5
	6.0 m	kg			*9 490	*9 490	*9 980	9 050	*8 500	6 320	7 250	4 620	*5 830	4 350	9.3
	4.5 m	kg					*10 850	8 530	*8 870	6 070	7 150	4 540	*5 700	3 910	9.8
	3.0 m	kg					*11 650	7 970	*9 230	5 790	7 010	4 400	*5 730	3 680	10.1
	1.5 m	kg					*11 950	7 550	8 990	5 540	6 870	4 270	5 800	3 610	10.1
	0 m	kg					*11 520	7 330	8 820	5 390	6 780	4 190	*5 940	3 700	9.9
	-1.5 m	kg			*12 110	11 230	*10 390	7 290	*8 270	5 340	*6 280	4 200	*5 370	3 960	9.5
	-3 m	kg	*9 260	*9 260	*9 970	*9 970	*8 520	7 390	*6 700	5 420			*4 500	*4 500	8.7
	-4.5 m	kg	*5 100	*5 100	*6 420	*6 420	*5 620	*5 620	*3 510	*3 510			*2 990	*2 990	7.7
Boom : 7.0 m Arm : 3.05 m Shoe : 800 mm CWT : 6 900 kg	10.5 m	kg											*8 570	*8 570	5.4
	9.0 m	kg					*9 370	*9 370					*6 890	6 810	7.2
	7.5 m	kg					*9 100	*9 100	*8 330	6 550			*6 180	5 230	8.5
	6.0 m	kg			*9 490	*9 490	*9 980	9 170	*8 500	6 410	7 360	4 690	*5 830	4 420	9.3
	4.5 m	kg					*10 850	8 650	*8 870	6 160	7 270	4 610	*5 700	3 970	9.8
	3.0 m	kg					*11 650	8 090	*9 230	5 880	7 120	4 470	*5 730	3 740	10.1
	1.5 m	kg					*11 950	7 670	9 130	5 630	6 980	4 350	5 900	3 670	10.1
	0 m	kg					*11 520	7 450	8 960	5 480	6 900	4 270	*5 940	3 760	9.9
	-1.5 m	kg			*12 110	11 410	*10 390	7 410	*8 270	5 440	*6 280	4 270	*5 370	4 030	9.5
	-3 m	kg	*9 260	*9 260	*9 970	*9 970	*8 520	7 510	*6 700	5 510			*4 500	*4 500	8.7
	-4.5 m	kg	*5 100	*5 100	*6 420	*6 420	*5 620	*5 620	*3 510	*3 510			*2 990	*2 990	7.7
Boom : 7.0 m Arm : 3.05 m Shoe : 900 mm CWT : 6 900 kg	10.5 m	kg											*8 570	*8 570	5.4
	9.0 m	kg					*9 370	*9 370					*6 890	6 880	7.2
	7.5 m	kg					*9 100	*9 100	*8 330	6 610			*6 180	5 280	8.5
	6.0 m	kg			*9 490	*9 490	*9 980	9 250	*8 500	6 480	7 440	4 740	*5 830	4 470	9.3
	4.5 m	kg					*10 850	8 730	*8 870	6 230	7 350	4 660	*5 700	4 020	9.8
	3.0 m	kg					*11 650	8 170	*9 230	5 940	7 200	4 520	*5 730	3 790	10.1
	1.5 m	kg					*11 950	7 750	9 240	5 700	7 060	4 400	*5 920	3 720	10.1
	0 m	kg					*11 520	7 530	9 070	5 540	6 980	4 320	*5 940	3 810	9.9
	-1.5 m	kg			*12 110	11 530	*10 390	7 490	*8 270	5 500	*6 280	4 320	*5 370	4 080	9.5
	-3 m	kg	*9 260	*9 260	*9 970	*9 970	*8 520	7 590	*6 700	5 570			*4 500	*4 500	8.7
	-4.5 m	kg	*5 100	*5 100	*6 420	*6 420	*5 620	*5 620	*3 510	*3 510			*2 990	*2 990	7.7

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.

Specifications

LIFTING CAPACITY EC400F Straight Boom L

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. reach		Max.
			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	m
Boom : 7.0 m Arm : 3.2 m Shoe : 600 mm CWT : 10 250 kg	10.5 m	kg			*14 020	*14 020									*10 890	*10 890	5.7 m
	9.0 m	kg					*12 550	*12 550							*9 110	*9 110	7.4 m
	7.5 m	kg					*12 690	*12 690	*11 210	10 760					*8 330	*8 330	8.6 m
	6.0 m	kg	*12 740	*12 740	*14 160	*14 160	*13 490	*13 490	*11 490	10 560	*10 160	7 840			*7 990	7 280	9.4 m
	4.5 m	kg			*19 480	*19 480	*14 660	14 230	*12 000	10 200	*10 270	7 700			*7 890	6 600	9.9 m
	3.0 m	kg					*15 720	13 440	*12 490	9 790	*10 390	7 490			*8 020	6 240	10.1 m
	1.5 m	kg					*16 130	12 800	*12 670	9 420	*10 320	7 290			*8 360	6 130	10.1 m
	0 m	kg			*11 480	*11 480	*15 610	12 430	*12 330	9 160	*9 830	7 140			*8 150	6 250	9.9 m
	-1.5 m	kg			*17 310	*17 310	*14 150	12 290	*11 260	9 040	*8 610	7 090			*7 460	6 660	9.5 m
	-3 m	kg			*13 810	*13 810	*11 670	*11 670	*9 180	9 070					*6 360	*6 360	8.7 m
Boom : 7.0 m Arm : 3.2 m Shoe : 700 mm CWT : 10 250 kg	10.5 m	kg			*14 020	*14 020									*10 890	*10 890	5.7 m
	9.0 m	kg					*12 550	*12 550							*9 110	*9 110	7.4 m
	7.5 m	kg					*12 690	*12 690	*11 210	10 840					*8 330	*8 330	8.6 m
	6.0 m	kg	*12 740	*12 740	*14 160	*14 160	*13 490	*13 490	*11 490	10 640	*10 160	7 910			*7 990	7 280	9.4 m
	4.5 m	kg			*19 480	*19 480	*14 660	14 340	*12 000	10 280	*10 270	7 770			*7 890	6 600	9.9 m
	3.0 m	kg					*15 720	13 550	*12 490	9 870	*10 390	7 560			*8 020	6 240	10.1 m
	1.5 m	kg					*16 130	12 910	*12 670	9 500	*10 320	7 350			*8 360	6 130	10.1 m
	0 m	kg			*11 480	*11 480	*15 610	12 540	*12 330	9 240	*9 830	7 210			*8 150	6 250	9.9 m
	-1.5 m	kg			*17 310	*17 310	*14 150	12 390	*11 260	9 120	*8 610	7 160			*7 460	6 660	9.5 m
	-3 m	kg			*13 810	*13 810	*11 670	*11 670	*9 180	9 150					*6 360	*6 360	8.7 m
Boom : 7.0 m Arm : 3.2 m Shoe : 800 mm CWT : 10 250 kg	10.5 m	kg			*14 020	*14 020									*10 890	*10 890	5.7 m
	9.0 m	kg					*12 550	*12 550							*9 110	*9 110	7.4 m
	7.5 m	kg					*12 690	*12 690	*11 210	10 920					*8 330	*8 330	8.6 m
	6.0 m	kg	*12 740	*12 740	*14 160	*14 160	*13 490	*13 490	*11 490	10 720	*10 160	7 970			*7 990	7 400	9.4 m
	4.5 m	kg			*19 480	*19 480	*14 660	14 450	*12 000	10 360	*10 270	7 830			*7 890	6 720	9.9 m
	3.0 m	kg					*15 720	13 660	*12 490	9 950	*10 390	7 620			*8 020	6 360	10.1 m
	1.5 m	kg					*16 130	13 020	*12 670	9 580	*10 320	7 420			*8 360	6 240	10.1 m
	0 m	kg			*11 480	*11 480	*15 610	12 640	*12 330	9 320	*9 830	7 270			*8 150	6 370	9.9 m
	-1.5 m	kg			*17 310	*17 310	*14 150	12 500	*11 260	9 200	*8 610	7 220			*7 460	6 780	9.5 m
	-3 m	kg			*13 810	*13 810	*11 670	*11 670	*9 180	*9 180					*6 360	*6 360	8.7 m
Boom : 7.0 m Arm : 3.2 m Shoe : 900 mm CWT : 10 250 kg	10.5 m	kg			*14 020	*14 020									*10 890	*10 890	5.7 m
	9.0 m	kg					*12 550	*12 550							*9 110	*9 110	7.4 m
	7.5 m	kg					*12 690	*12 690	*11 210	11 010					*8 330	*8 330	8.6 m
	6.0 m	kg	*12 740	*12 740	*14 160	*14 160	*13 490	*13 490	*11 490	10 800	*10 160	8 030			*7 990	7 460	9.4 m
	4.5 m	kg			*19 480	*19 480	*14 660	14 560	*12 000	10 440	*10 270	7 890			*7 890	6 770	9.9 m
	3.0 m	kg					*15 720	13 760	*12 490	10 030	*10 390	7 690			*8 020	6 410	10.1 m
	1.5 m	kg					*16 130	13 130	*12 670	9 660	*10 320	7 480			*8 360	6 300	10.1 m
	0 m	kg			*11 480	*11 480	*15 610	12 750	*12 330	9 400	*9 830	7 340			*8 150	6 430	9.9 m
	-1.5 m	kg			*17 310	*17 310	*14 150	12 610	*11 260	9 280	*8 610	7 290			*7 460	6 840	9.5 m
	-3 m	kg			*13 810	*13 810	*11 670	*11 670	*9 180	*9 180					*6 360	*6 360	8.7 m

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 EC400F Straight Boom L

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. reach		Max.
			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	m
Boom : 7.0 m Arm : 3.9 m Shoe : 600 mm CWT : 10 250 kg	12 m	kg													*11 030	*11 030	4.3 m
	10.5 m	kg					*10 480	*10 480							*8 090	*8 090	6.8 m
	9.0 m	kg					*10 220	*10 220	*9 800	*9 800					*7 030	*7 030	8.3 m
	7.5 m	kg					*9 910	*9 910	*10 380	*10 380	*8 640	7 980			*6 500	*6 500	9.4 m
	6.0 m	kg			*9 570	*9 570	*10 790	*10 790	*10 780	10 680	*9 590	7 910			*6 260	*6 260	10.1 m
	4.5 m	kg			*17 870	*17 870	*13 750	*13 750	*11 380	10 280	*9 810	7 720	*6 780	5 930	*6 190	5 870	10.6 m
	3.0 m	kg					*15 000	13 590	*12 000	9 810	*10 060	7 460	*8 550	5 830	*6 280	5 570	10.8 m
	1.5 m	kg					*15 760	12 820	*12 380	9 370	*10 160	7 210	*8 350	5 710	*6 510	5 460	10.8 m
	0 m	kg			*13 360	*13 360	*15 680	12 310	*12 300	9 040	*9 930	7 010	*7 730	5 630	*6 940	5 550	10.6 m
	-1.5 m	kg	*8 000	*8 000	*17 520	*17 520	*14 680	12 060	*11 600	8 850	*9 160	6 890			*6 970	5 850	10.2 m
	-3.0 m	kg	*13 890	*13 890	*15 750	*15 750	*12 720	12 020	*10 050	8 810	*7 440	6 910			*6 140	*6 140	9.5 m
	-4.5 m	kg			*11 470	*11 470	*9 550	*9 550	*7 200	*7 200							8.5 m
Boom : 7.0 m Arm : 3.9 m Shoe : 700 mm CWT : 10 250 kg	12 m	kg													*11 030	*11 030	4.3 m
	10.5 m	kg					*10 480	*10 480							*8 090	*8 090	6.8 m
	9.0 m	kg					*10 220	*10 220	*9 800	*9 800					*7 030	*7 030	8.3 m
	7.5 m	kg					*9 910	*9 910	*10 380	*10 380	*8 640	8 040			*6 500	*6 500	9.4 m
	6.0 m	kg			*9 570	*9 570	*10 790	*10 790	*10 780	10 760	*9 590	7 980			*6 260	*6 260	10.1 m
	4.5 m	kg			*17 870	*17 870	*13 750	*13 750	*11 380	10 360	*9 810	7 780	*6 780	5 980	*6 190	5 920	10.6 m
	3.0 m	kg					*15 000	13 690	*12 000	9 890	*10 060	7 520	*8 550	5 890	*6 280	5 620	10.8 m
	1.5 m	kg					*15 760	12 930	*12 380	9 450	*10 160	7 270	*8 350	5 770	*6 510	5 510	10.8 m
	0 m	kg			*13 360	*13 360	*15 680	12 420	*12 300	9 120	*9 930	7 070	*7 730	5 680	*6 940	5 600	10.6 m
	-1.5 m	kg	*8 000	*8 000	*17 520	*17 520	*14 680	12 160	*11 600	8 930	*9 160	6 960			*6 970	5 910	10.2 m
	-3.0 m	kg	*13 890	*13 890	*15 750	*15 750	*12 720	12 130	*10 050	8 890	*7 440	6 980			*6 140	*6 140	9.5 m
	-4.5 m	kg			*11 470	*11 470	*9 550	*9 550	*7 200	*7 200							8.5 m
Boom : 7.0 m Arm : 3.9 m Shoe : 800 mm CWT : 10 250 kg	12 m	kg													*11 030	*11 030	4.3 m
	10.5 m	kg					*10 480	*10 480							*8 090	*8 090	6.8 m
	9.0 m	kg					*10 220	*10 220	*9 800	*9 800					*7 030	*7 030	8.3 m
	7.5 m	kg					*9 910	*9 910	*10 380	*10 380	*8 640	8 110			*6 500	*6 500	9.4 m
	6.0 m	kg			*9 570	*9 570	*10 790	*10 790	*10 780	*10 780	*9 590	8 040			*6 260	*6 260	10.1 m
	4.5 m	kg			*17 870	*17 870	*13 750	*13 750	*11 380	10 440	*9 810	7 840	*6 780	6 040	*6 190	5 980	10.6 m
	3.0 m	kg					*15 000	13 800	*12 000	9 970	*10 060	7 590	*8 550	5 940	*6 280	5 670	10.8 m
	1.5 m	kg					*15 760	13 040	*12 380	9 530	*10 160	7 340	*8 350	5 820	*6 510	5 570	10.8 m
	0 m	kg			*13 360	*13 360	*15 680	12 520	*12 300	9 200	*9 930	7 140	*7 730	5 730	*6 940	5 650	10.6 m
	-1.5 m	kg	*8 000	*8 000	*17 520	*17 520	*14 680	12 270	*11 600	9 010	*9 160	7 020			*6 970	5 960	10.2 m
	-3.0 m	kg	*13 890	*13 890	*15 750	*15 750	*12 720	12 240	*10 050	8 970	*7 440	7 040			*6 140	*6 140	9.5 m
	-4.5 m	kg			*11 470	*11 470	*9 550	*9 550	*7 200	*7 200							8.5 m
Boom : 7.0 m Arm : 3.9 m Shoe : 900 mm CWT : 10 250 kg	12 m	kg													*11 030	*11 030	4.3 m
	10.5 m	kg					*10 480	*10 480							*8 090	*8 090	6.8 m
	9.0 m	kg					*10 220	*10 220	*9 800	*9 800					*7 030	*7 030	8.3 m
	7.5 m	kg					*9 910	*9 910	*10 380	*10 380	*8 640	8 170			*6 500	*6 500	9.4 m
	6.0 m	kg			*9 570	*9 570	*10 790	*10 790	*10 780	*10 780	*9 590	8 110			*6 260	*6 260	10.1 m
	4.5 m	kg			*17 870	*17 870	*13 750	*13 750	*11 380	10 520	*9 810	7 910	*6 780	6 090	*6 190	6 030	10.6 m
	3.0 m	kg					*15 000	13 910	*12 000	10 050	*10 060	7 650	*8 550	6 000	*6 280	5 720	10.8 m
	1.5 m	kg					*15 760	13 140	*12 380	9 610	*10 160	7 400	*8 350	5 880	*6 510	5 620	10.8 m
	0 m	kg			*13 360	*13 360	*15 680	12 630	*12 300	9 280	*9 930	7 200	*7 730	5 790	*6 940	5 710	10.6 m
	-1.5 m	kg	*8 000	*8 000	*17 520	*17 520	*14 680	12 380	*11 600	9 090	*9 160	7 090			*6 970	6 020	10.2 m
	-3.0 m	kg	*13 890	*13 890	*15 750	*15 750	*12 720	12 340	*10 050	9 050	*7 440	7 110			*6 140	*6 140	9.5 m
	-4.5 m	kg			*11 470	*11 470	*9 550	*9 550	*7 200	*7 200							8.5 m

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.

Specifications

LIFTING CAPACITY EC400F Straight Boom NL

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. reach		Max.
			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	m
Boom : 7.0 m Arm : 3.2 m Shoe : 600 mm CWT : 10 250 kg	10.5 m	kg			*14 020	*14 020									*10 890	*10 890	5.7 m
	9.0 m	kg					*12 550	*12 550							*9 110	*9 110	7.4 m
	7.5 m	kg					*12 690	*12 690	*11 210	9 510					*8 330	7 470	8.6 m
	6.0 m	kg	*12 740	*12 740	*14 160	*14 160	*13 490	13 150	*11 490	9 310	*10 160	6 900			*7 990	6 390	9.4 m
	4.5 m	kg			*19 480	18 950	*14 660	12 450	*12 000	8 960	*10 270	6 760			*7 890	5 780	9.9 m
	3.0 m	kg					*15 720	11 690	*12 490	8 560	*10 390	6 560			*8 020	5 450	10.1 m
	1.5 m	kg					*16 130	11 070	*12 670	8 200	*10 320	6 360			*8 360	5 340	10.1 m
	0 m	kg			*11 480	*11 480	*15 610	10 710	*12 330	7 950	*9 830	6 210			*8 150	5 440	9.9 m
	-1.5 m	kg			*17 310	15 950	*14 150	10 580	*11 260	7 840	*8 610	6 170			*7 460	5 790	9.5 m
	-3 m	kg			*13 810	*13 810	*11 670	10 630	*9 180	7 870					*6 360	*6 360	8.7 m
Boom : 7.0 m Arm : 3.2 m Shoe : 700 mm CWT : 10 250 kg	10.5 m	kg			*14 020	*14 020									*10 890	*10 890	5.7 m
	9.0 m	kg					*12 550	*12 550							*9 110	*9 110	7.4 m
	7.5 m	kg					*12 690	*12 690	*11 210	9 580					*8 330	7 530	8.6 m
	6.0 m	kg	*12 740	*12 740	*14 160	*14 160	*13 490	13 240	*11 490	9 380	*10 160	6 950			*7 990	6 450	9.4 m
	4.5 m	kg			*19 480	19 080	*14 660	12 540	*12 000	9 030	*10 270	6 820			*7 890	5 830	9.9 m
	3.0 m	kg					*15 720	11 780	*12 490	8 630	*10 390	6 610			*8 020	5 500	10.1 m
	1.5 m	kg					*16 130	11 170	*12 670	8 270	*10 320	6 410			*8 360	5 390	10.1 m
	0 m	kg			*11 480	*11 480	*15 610	10 800	*12 330	8 020	*9 830	6 270			*8 150	5 490	9.9 m
	-1.5 m	kg			*17 310	16 090	*14 150	10 670	*11 260	7 900	*8 610	6 220			*7 460	5 850	9.5 m
	-3 m	kg			*13 810	*13 810	*11 670	10 720	*9 180	7 940					*6 360	*6 360	8.7 m
Boom : 7.0 m Arm : 3.2 m Shoe : 800 mm CWT : 10 250 kg	10.5 m	kg			*14 020	*14 020									*10 890	*10 890	5.7 m
	9.0 m	kg					*12 550	*12 550							*9 110	*9 110	7.4 m
	7.5 m	kg					*12 690	*12 690	*11 210	9 650					*8 330	7 590	8.6 m
	6.0 m	kg	*12 740	*12 740	*14 160	*14 160	*13 490	13 330	*11 490	9 450	*10 160	7 010			*7 990	6 500	9.4 m
	4.5 m	kg			*19 480	19 220	*14 660	12 630	*12 000	9 100	*10 270	6 870			*7 890	5 880	9.9 m
	3.0 m	kg					*15 720	11 870	*12 490	8 700	*10 390	6 670			*8 020	5 550	10.1 m
	1.5 m	kg					*16 130	11 260	*12 670	8 340	*10 320	6 470			*8 360	5 440	10.1 m
	0 m	kg			*11 480	*11 480	*15 610	10 900	*12 330	8 090	*9 830	6 330			*8 150	5 540	9.9 m
	-1.5 m	kg			*17 310	16 220	*14 150	10 760	*11 260	7 970	*8 610	6 280			*7 460	5 900	9.5 m
	-3 m	kg			*13 810	*13 810	*11 670	10 810	*9 180	8 010					*6 360	*6 360	8.7 m
Boom : 7.0 m Arm : 3.2 m Shoe : 900 mm CWT : 10 250 kg	10.5 m	kg			*14 020	*14 020									*10 890	*10 890	5.7 m
	9.0 m	kg					*12 550	*12 550							*9 110	*9 110	7.4 m
	7.5 m	kg					*12 690	*12 690	*11 210	9 720					*8 330	7 650	8.6 m
	6.0 m	kg	*12 740	*12 740	*14 160	*14 160	*13 490	13 420	*11 490	9 520	*10 160	7 070			*7 990	6 550	9.4 m
	4.5 m	kg			*19 480	19 350	*14 660	12 730	*12 000	9 170	*10 270	6 930			*7 890	5 930	9.9 m
	3.0 m	kg					*15 720	11 960	*12 490	8 770	*10 390	6 720			*8 020	5 600	10.1 m
	1.5 m	kg					*16 130	11 350	*12 670	8 410	*10 320	6 530			*8 360	5 490	10.1 m
	0 m	kg			*11 480	*11 480	*15 610	10 990	*12 330	8 160	*9 830	6 380			*8 150	5 590	9.9 m
	-1.5 m	kg			*17 310	16 360	*14 150	10 850	*11 260	8 040	*8 610	6 330			*7 460	5 950	9.5 m
	-3 m	kg			*13 810	*13 810	*11 670	10 900	*9 180	8 080					*6 360	*6 360	8.7 m

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 EC400F Straight Boom NL

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, simply subtract actual weight of the direct fit bucket or the bucket with quick coupler from the following values.

	Lifting hook related to ground level		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		Max. reach		Max.
			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	m
Boom : 7.0 m Arm : 3.9 m Shoe : 600 mm CWT : 10 250 kg	12 m	kg													*11 030	*11 030	4.3 m
	10.5 m	kg					*10 480	*10 480							*8 090	*8 090	6.8 m
	9.0 m	kg					*10 220	*10 220	*9 800	9 680					*7 030	*7 030	8.3 m
	7.5 m	kg					*9 910	*9 910	*10 380	9 660	*8 640	7 030			*6 500	6 460	9.4 m
	6.0 m	kg			*9 570	*9 570	*10 790	*10 790	*10 780	9 420	*9 590	6 970			*6 260	5 620	10.1 m
	4.5 m	kg			*17 870	*17 870	*13 750	12 660	*11 380	9 030	*9 810	6 770	*6 780	5 170	*6 190	5 120	10.6 m
	3.0 m	kg					*15 000	11 820	*12 000	8 580	*10 060	6 520	*8 550	5 080	*6 280	4 840	10.8 m
	1.5 m	kg					*15 760	11 080	*12 380	8 150	*10 160	6 270	*8 350	4 960	*6 510	4 740	10.8 m
	0 m	kg			*13 360	*13 360	*15 680	10 590	*12 300	7 830	*9 930	6 080	*7 730	4 880	*6 940	4 810	10.6 m
	-1.5 m	kg	*8 000	*8 000	*17 520	15 570	*14 680	10 350	*11 600	7 640	*9 160	5 970			*6 970	5 070	10.2 m
	-3.0 m	kg	*13 890	*13 890	*15 750	15 650	*12 720	10 310	*10 050	7 600	*7 440	5 990			*6 140	5 610	9.5 m
	-4.5 m	kg			*11 470	*11 470	*9 550	*9 550	*7 200	*7 200							8.5 m
Boom : 7.0 m Arm : 3.9 m Shoe : 700 mm CWT : 10 250 kg	12 m	kg													*11 030	*11 030	4.3 m
	10.5 m	kg					*10 480	*10 480							*8 090	*8 090	6.8 m
	9.0 m	kg					*10 220	*10 220	*9 800	9 750					*7 030	*7 030	8.3 m
	7.5 m	kg					*9 910	*9 910	*10 380	9 730	*8 640	7 080			*6 500	*6 500	9.4 m
	6.0 m	kg			*9 570	*9 570	*10 790	*10 790	*10 780	9 490	*9 590	7 020			*6 260	5 670	10.1 m
	4.5 m	kg			*17 870	*17 870	*13 750	12 750	*11 380	9 100	*9 810	6 830	*6 780	5 220	*6 190	5 160	10.6 m
	3.0 m	kg					*15 000	11 910	*12 000	8 650	*10 060	6 580	*8 550	5 120	*6 280	4 880	10.8 m
	1.5 m	kg					*15 760	11 170	*12 380	8 220	*10 160	6 330	*8 350	5 010	*6 510	4 780	10.8 m
	0 m	kg			*13 360	*13 360	*15 680	10 680	*12 300	7 900	*9 930	6 130	*7 730	4 920	*6 940	4 850	10.6 m
	-1.5 m	kg	*8 000	*8 000	*17 520	15 710	*14 680	10 440	*11 600	7 710	*9 160	6 020			*6 970	5 120	10.2 m
	-3.0 m	kg	*13 890	*13 890	*15 750	*15 750	*12 720	10 400	*10 050	7 670	*7 440	6 040			*6 140	5 660	9.5 m
	-4.5 m	kg			*11 470	*11 470	*9 550	*9 550	*7 200	*7 200							8.5 m
Boom : 7.0 m Arm : 3.9 m Shoe : 800 mm CWT : 10 250 kg	12 m	kg													*11 030	*11 030	4.3 m
	10.5 m	kg					*10 480	*10 480							*8 090	*8 090	6.8 m
	9.0 m	kg					*10 220	*10 220	*9 800	*9 800					*7 030	*7 030	8.3 m
	7.5 m	kg					*9 910	*9 910	*10 380	9 800	*8 640	7 140			*6 500	*6 500	9.4 m
	6.0 m	kg			*9 570	*9 570	*10 790	*10 790	*10 780	9 560	*9 590	7 080			*6 260	5 720	10.1 m
	4.5 m	kg			*17 870	*17 870	*13 750	12 840	*11 380	9 170	*9 810	6 880	*6 780	5 270	*6 190	5 210	10.6 m
	3.0 m	kg					*15 000	12 000	*12 000	8 710	*10 060	6 630	*8 550	5 170	*6 280	4 930	10.8 m
	1.5 m	kg					*15 760	11 270	*12 380	8 290	*10 160	6 390	*8 350	5 050	*6 510	4 830	10.8 m
	0 m	kg			*13 360	*13 360	*15 680	10 770	*12 300	7 970	*9 930	6 190	*7 730	4 970	*6 940	4 900	10.6 m
	-1.5 m	kg	*8 000	*8 000	*17 520	15 840	*14 680	10 530	*11 600	7 780	*9 160	6 080			*6 970	5 170	10.2 m
	-3.0 m	kg	*13 890	*13 890	*15 750	*15 750	*12 720	10 500	*10 050	7 740	*7 440	6 100			*6 140	5 710	9.5 m
	-4.5 m	kg			*11 470	*11 470	*9 550	*9 550	*7 200	*7 200							8.5 m
Boom : 7.0 m Arm : 3.9 m Shoe : 900 mm CWT : 10 250 kg	12 m	kg													*11 030	*11 030	4.3 m
	10.5 m	kg					*10 480	*10 480							*8 090	*8 090	6.8 m
	9.0 m	kg					*10 220	*10 220	*9 800	*9 800					*7 030	*7 030	8.3 m
	7.5 m	kg					*9 910	*9 910	*10 380	9 870	*8 640	7 190			*6 500	*6 500	9.4 m
	6.0 m	kg			*9 570	*9 570	*10 790	*10 790	*10 780	9 630	*9 590	7 130			*6 260	5 770	10.1 m
	4.5 m	kg			*17 870	*17 870	*13 750	12 940	*11 380	9 240	*9 810	6 940	*6 780	5 310	*6 190	5 260	10.6 m
	3.0 m	kg					*15 000	12 090	*12 000	8 780	*10 060	6 690	*8 550	5 220	*6 280	4 980	10.8 m
	1.5 m	kg					*15 760	11 360	*12 380	8 360	*10 160	6 440	*8 350	5 100	*6 510	4 870	10.8 m
	0 m	kg			*13 360	*13 360	*15 680	10 860	*12 300	8 040	*9 930	6 250	*7 730	5 020	*6 940	4 950	10.6 m
	-1.5 m	kg	*8 000	*8 000	*17 520	15 980	*14 680	10 620	*11 600	7 850	*9 160	6 140			*6 970	5 210	10.2 m
	-3.0 m	kg	*13 890	*13 890	*15 750	*15 750	*12 720	10 590	*10 050	7 810	*7 440	6 150			*6 140	5 770	9.5 m
	-4.5 m	kg			*11 470	*11 470	*9 550	*9 550	*7 200	*7 200							8.5 m

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.

Equipment

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

	EC300 SB	EC400 SB
Engine		
Turbocharged, 4 stroke diesel engine with water cooling, direct injection and charged air cooler that meets EU StageV/NA T4f requirements	•	•
Dual cooling fan system including electric driven for CAC	•	•
Cyclone pre-cleaner	•	•
Fuel shut off valve	•	•
Engine block heater	o	o
Coolant heater by diesel	o	o
Reversible fan drive	o	•
High Capacity cooling	o	o
Precleaner, oil bath	o	o
Air filter, High efficiency (EON)	o	o
Delayed engine Shutdown	o	o
Automatic engine shutdown	o	o
Water separator with heater	o	o
Arctic regeneration	o	o
Regeneration control	–	o
Oil sampling for engine oil	o	o
Electric / Electronic control system		
Anti-theft with code lock system	•	•
Alternator, 180 A	•	•
Automatic idling system	•	•
Lock Out / Tag Out function on main battery switch	•	•
Standard light	•	•
Deluxe light package	•	•
Arm light	•	o
LH light	o	o
Undercarriage and structures		
3-point side access	•	•
Direct filling DEF(AdBlue) / Sight gauge and splash guard	•	•
Openable combined muffler hood	•	•
Handrail & Guardrail, Foldable	•	•
Inner rail	o	o
Cabin entrance, foldable	o	o
Cabin entrance, fixed	o	o
Walk way, fixed/foldable	o	o
SIPS (Side Impact Protection System)	o	•
Narrow SIPS (Side Impact Protection Steel)	o	–
HD Side door & hood with screen	o	•
Without lower structure	o	o
Link 600 / 700 / 800 / 900 mm triple grouser shoe	o	o
Link 600 mm triple grouser shoe, HD	o	o
Link 600 mm double grouser shoe	o	o
Link 700 mm single grouser shoe	o	–
Full track guard	o	o
Track tensioner,sand protect	o	o
Removable counterweight	•	•

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

	EC300 SB	EC400 SB
Hydraulic System		
EH(Electro-Hydraulic) control system	•	•
New work mode with 10 steps	•	•
Auto power boost	•	•
One touch power boost	•	•
Priority Adjustment	•	•
Boom down speed control	•	•
Shock reduction function	•	•
Joystick, 4 switch & 1 proportional / Simple L8 / L8	o	o
Hydraulic oil mineral 32 / 46 / 68	o	o
Longlife hyd oil mineral 32 / 46 / 68	o	o
Hydraulic oil bio 46	o	o
Pattern change	o	o
Boom float function	o	o
Straight travel pedal	o	o
Comfort driving control	o	o
Creep mode	o	o
Dust suppression system	–	•
Dedicated drain line	o	•
Variable X3 P-Q control	o	o
Hose rupture valve for boom	•	•
Hose rupture valve for arm	•	•
Cab and interior		
Keyless engine start and stop	•	•
8" HD display	•	•
High visibility cab	•	•
Tiltable left console	•	•
Digital hour meter	•	•
Wireless mobile charger with Kinematic sensor package option	•	•
Various storage space with cool/heated	•	•
Air pressure supply in cabin	–	o
Cabin large mirror with heater	o	o
Cabin large mirror	o	o
Basic / Premium / Deluxe seat	o	o
Seat belt, 2 inch 2 point / 3 inch 2 point / 3 inch 3 point	o	o
Climate control-HEPA filter	o	o
Radio with MP3/USB/Bluetooth	o	o
Lower wiper	–	•
Sun shield, roof hatch	o	o
Foot rest, High mount	o	o
FOG, frame mounted, hinge type for easy cleaning	•	•

STANDARD AND OPTIONAL EQUIPMENT

• = Standard / o = Optional

	EC300 SB	EC400 SB
Digging equipment		
7.0 m Straight boom	•	•
3.2 m HD	o	o
3.9 m HD	–	o
3.05 m	•	–
Safety		
Travel alarm, beep	o	o
Travel alarm, white noise	o	o
Flashing beacon, LED	o	o
Green light beacon	o	o
Rear view camera	•	•
Side view camera	•	•
HD VSV(Volvo Smart View)	o	o
HD VSV with obstacle detection	o	o
Provision, HD VSV with obstacle detection	o	o
Service and Maintenance		
Fuel level gauge	–	•
Swing out A/C condenser	•	•
Fuel filler pump	o	o
Fast Fuel Fill prepration	–	o
Quick Hydraulic Oil Fill connection	o	o
Quick Engine Oil Change	–	o
Jump start connector	o	o
Auto lubrication system	o	o
Tool kit	o	o

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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