

Technical data



Engine

Rating	
per SAE J1349	241 HP (180 kW) at 1,800 rpm
per ISO 9249	245 HP (180 kW) at 1,800 rpm
Torque	1,255 Nm at 1,350 rpm / 926 lbf ft at 1,350 rpm
Model	Liebherr D934 A7-25
Type	4 cylinder in-line
Bore	122 mm / 4.8 in
Stroke	150 mm / 5.9 in
Displacement	7.0 l / 427 in³
Engine operation	4-stroke diesel Common-Rail Turbo-charged and after-cooler
Exhaust gas treatment	Tier 4 Final DOC + SCR Passive regeneration by thermo management
Cooling system	Water-cooled and oil cooler, after-cooled and fuel cooled
Air cleaner	Dry-type air cleaner with pre-cleaner
Fuel tank	620 l / 164 gal
Urea tank	90 l / 24 gal
Electrical system	
Voltage	24 V
Batteries	2 x 135 Ah / 12 V
Alternator	Three-phase current 24 V / 140 A
Engine idling	Sensor controlled



Hydraulic controls

Power distribution	Via control valves, simultaneous and independent actuation of undercarriage, swing drive and equipment
Electric servo circuit	Electro-hydraulic control
Equipment and swing	Proportional via joystick levers
Travel	– Proportional control via foot pedals or removable levers – Automatic or manual speed adjustment
Additional functions	Proportional regulation via foot pedals or mini-joystick



Hydraulic system

Hydraulic system	Positive Control hydraulic system. Demand-based, double independent pump flows Features high system dynamics and sensitivity provided by integrated system controlling Independent circuit for rotation
Hydraulic pumps	
For equipment and travel drive	Liebherr, variable displacement, swashplate double pump
Max. flow	2 x 265 l/min. / 2 x 70 gpm
Max. pressure	380 bar / 5,511 psi
For swing drive	Swashplate pump, closed-loop circuit
Max. flow	200 l/min. / 53 gpm
Max. pressure	400 bar / 5,802 psi
Pump management	Electronic management synchronous to the control block
Hydraulic tank	239 l / 63 gal
Hydraulic system	max. 475 l / max. 126 gal
Filtration	1 main return filter with integrated partial micro filtration (10 µm / 1,250 mesh)
Cooling system	Compact cooler, consisting of a water cooler, with hydraulic oil cooler, gearbox oil cooler, fuel cooler and after-cooler cores and hydrostatically driven fan
MODE selection	Adjustment of engine and hydraulic performance via a mode pre-selector to match application, e.g. for especially economical and environmentally friendly operation or for maximum digging performance and heavy-duty jobs
Engine speed and performance setting	Stepless adjustment of engine output and hydraulic power via engine speed



Swing drive

Drive	Liebherr swashplate motor with integrated brake valve and torque control
Transmission	Liebherr compact planetary reduction gears
Swing ring	Liebherr, sealed race ball bearing swing ring, internal teeth
Swing speed	0–10.1 rpm stepless
Swing torque	99 kNm / 73,019 lbf ft
Holding brake	Wet multi-disc (spring applied, pressure released)



Cab

Cab	ROPS safety cab structure (roll-over protection system according to ISO 12117-2:2008) with windscreen, totally or partially retractable (only upper part), under cab roof, LED headlights integrated in the ceiling, a door with a sliding window (can be opened on both sides), large storing box and several stowing possibilities, shock-absorbing suspension, laminated right hand side and roof windows, all windows tinted, separate extensible window shades for the sunroof window and windscreen, cigarette lighter and 24 V plug, 12 V plug, cup holder, mobile phone storage net
Operator's seat	Liebherr-Comfort seat, airsprung with automatic weight adjustment, vertical and longitudinal seat damping including consoles and joysticks. Seat and armrests adjustable separately and in combination (adjustable in length, height and inclination), seat heating as standard
Arm consoles	Oscillating consoles with seat, tiltable console left
Operation and displays	Large high-resolution operating unit, intuitive, color display with touchscreen, video-compatible, numerous setting, control and monitoring options, e.g. air conditioning control, fuel consumption, machine and attachment parameters
Air-conditioning	Automatic air-conditioning, recirculated air function, fast de-icing and demisting at the press of a button, air vents can be operated via a menu. Recirculated air and fresh air filters can be easily replaced and are accessible from the outside. Heating-cooling unit, designed for extreme outside temperatures, sensors for solar radiation, inside and outside temperatures
Noise emission	
ISO 6396	71 dB(A) = L _{pA} (inside cab)
2000/14/EC	105 dB(A) = L _{WA} (surround noise)



Undercarriage

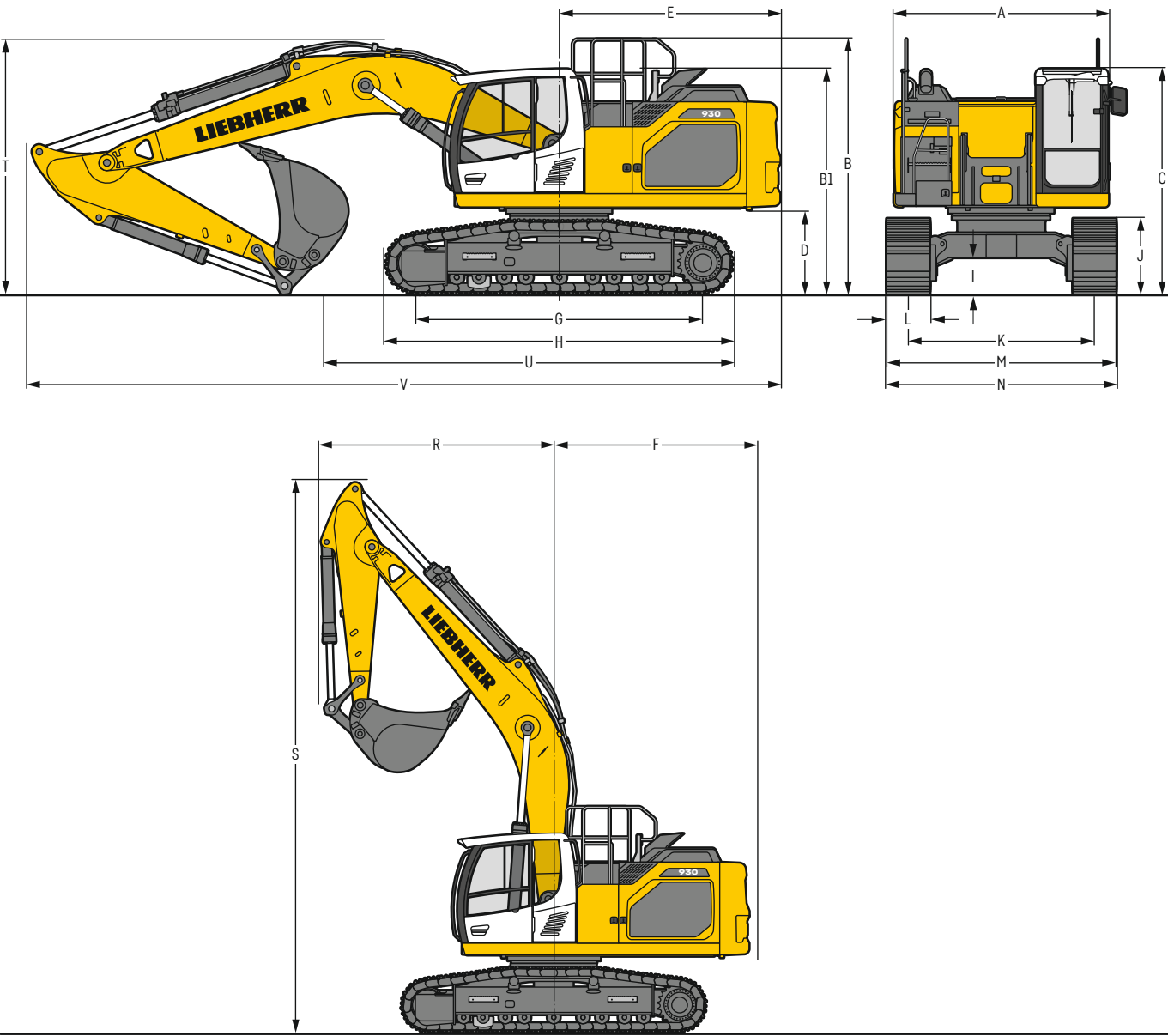
LC	Gauge 2,590 mm / 8'6"
Drive	Liebherr swashplate motor with brake valves on both sides
Transmission	Liebherr planetary reduction gear
Maximum travel speed	3.5 km/h / 2.2 mph low range 5.8 km/h / 3.6 mph high range
Drawbar pull on crawler	261 kN / 58,680 lbf
Track components	D7, D7G, maintenance-free
Track rollers / Carrier rollers	9 / 2
Tracks	Sealed and greased
Track pads	Triple grouser
Holding brake	Wet multi-disc (spring applied, pressure released)
Brake valves	Integrated into travel motor
Lashing eyes	Integrated



Equipment

Type	Combination of resistant steel plates and cast steel components
Hydraulic cylinders	Liebherr cylinders with seal and guidance systems
Bearings	Sealed, low maintenance
Lubrication	Liebherr central lubrication system
Hydraulic connections	Pipes and hoses equipped with SAE split-flange connections
Buckets	Standard equipped with Liebherr tooth system

Dimensions



		LC	mm / ft in	
A	Uppercarriage width		2,990 ²⁾	9'10" ²⁾
B	Uppercarriage height		3,570	/11' 9"
B1	Uppercarriage height (handrails folded)		3,130	/10' 3"
C	Cab height		3,150	/10' 4"
D	Counterweight ground clearance		1,175	/ 3'10"
E	Rear-end length		3,075	/10' 1"
F	Tail swing radius		3,200	/10' 6"
G	Wheelbase		3,990	/13' 1"
H	Undercarriage length		4,840	/15'11"
I	Undercarriage ground clearance		505	/ 1' 8"
J	Track height		1,055	/ 3' 6"
K	Track gauge		2,590	/ 8' 6"
L	Track pad width	600 / 24" 700 / 28" 800 / 31" 900 / 35"		
M	Width over tracks	3,190 /10' 6" 3,290 /10'10" 3,390 /11' 1" 3,490 /11' 5"		
N	Width over steps	3,190 /10' 6" 3,190 /10' 6" 3,390 ¹⁾ /11' 1" ¹⁾ 3,390 ¹⁾ /11' 1" ¹⁾		

¹⁾ width with removable steps

²⁾ without door stop device and spacer

		Stick length	Mono boom 6.20 m / 20'4"
		m / ft in	direct mounting mm / ft in
R	Front swing radius		3,700 /12' 2"
S	Height with boom up		8,700 /28 '7"
T	Boom height	2.50 / 8'2"	3,250 /10' 8"
		2.80 / 9'2"	3,550 /11' 8"
		3.20 /10'6"	3,400 /11' 2"
		3.70 /12'2"	3,200 ¹⁾ /10' 6" ¹⁾
U	Length on ground	2.50 / 8'2"	6,400 /21'
		2.80 / 9'2"	6,250 /20' 6"
		3.20 /10'6"	5,600 /18' 4"
		3.70 /12'2"	4,850 ¹⁾ /15'11" ¹⁾
V	Overall length	2.50 / 8'2"	10,400 /34' 1"
		2.80 / 9'2"	10,400 /34' 1"
		3.20 /10'6"	10,400 /34' 1"
		3.70 /12'2"	10,400 ¹⁾ /34' 1" ¹⁾
	Bucket		1.75 m ³ /2.29 yd ³

¹⁾ without bucket

Transport dimensions

removable elements disassembled

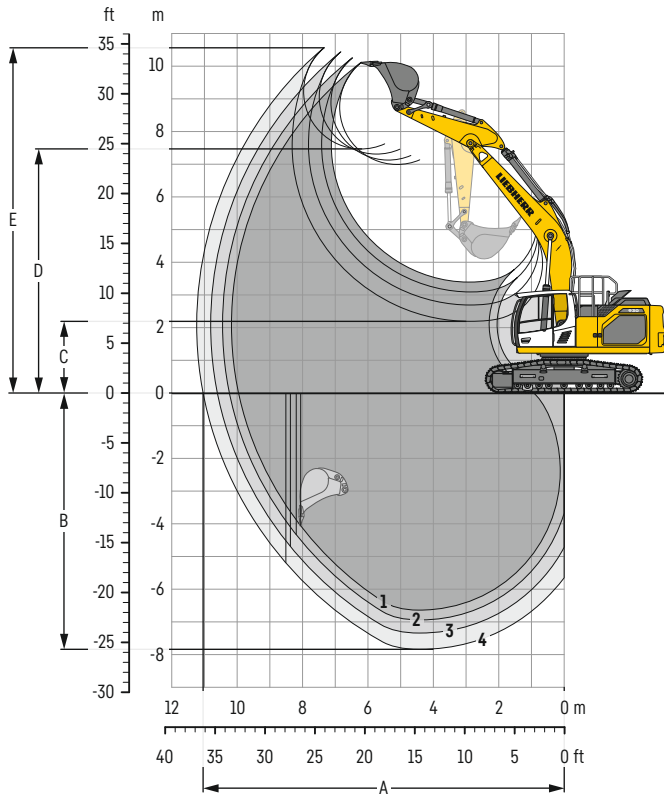
	Mono boom 6.20 m / 20'4"	mm / ft in	
Pad width	600 / 24" 700 / 28" 800 / 31" 900 / 35"		
Transport width	3,190 /10' 6" 3,290 /10'10" 3,390 /11' 1" 3,490 /11' 5"		

	Stick	mm / ft in	
	m / ft in	mm / ft in	
Transport length	2.50 / 8'2"	10,400 /34'1"	
	2.80 / 9'2"	10,400 /34'1"	
	3.20 /10'6"	10,400 /34'1"	
	3.70 /12'2"	10,400 ¹⁾ /34'1" ¹⁾	
Transport height	2.50 / 8'2"	3,250 /10'8"	
	2.80 / 9'2"	3,550 /11'8"	
	3.20 /10'6"	3,400 /11'2"	
	3.70 /12'2"	3,200 /10'6"	
Bucket		1.75 m ³ /2.29 yd ³	

¹⁾ without bucket

Backhoe bucket

with mono boom 6.20 m / 20'4"



Digging envelope

without quick coupler		1	2	3	4
Stick length	m / ft in	2.50 / 8' 2"	2.80 / 9' 2"	3.20 / 10' 6"	3.70 / 12' 2"
A Max. reach at ground level	m / ft in	9.95 / 32' 8"	10.23 / 33' 7"	10.60 / 34' 9"	11.04 / 36' 3"
B Max. digging depth	m / ft in	6.64 / 21' 9"	6.94 / 22' 9"	7.34 / 24' 1"	7.84 / 25' 9"
C Min. dumping height	m / ft in	3.39 / 11' 1"	3.09 / 10' 2"	2.69 / 8' 10"	2.19 / 7' 2"
D Max. dumping height	m / ft in	6.99 / 22' 11"	7.13 / 23' 5"	7.31 / 24'	7.47 / 24' 6"
E Max. cutting height	m / ft in	10.10 / 33' 2"	10.23 / 33' 7"	10.42 / 34' 2"	10.56 / 34' 8"

Forces

without quick coupler		1	2	3	4
Stick digging force (ISO 6015)	kN / lbf	168 / 37,770	156 / 35,070	142 / 31,920	128 / 28,780
Bucket digging force (ISO 6015)	kN / lbf	204 / 45,860	204 / 45,860	204 / 45,860	204 / 45,860
Stick digging force (SAE J1179)	kN / lbf	160 / 35,970	149 / 33,500	136 / 30,570	123 / 27,650
Bucket digging force (SAE J1179)	kN / lbf	178 / 40,020	178 / 40,020	178 / 40,020	178 / 40,020

Operating weight and ground pressure

The operating weight includes the basic machine with counterweight 5.1t / 11,240lb, mono boom 6.20 m / 20'4", stick 3.20 m / 10'6" and bucket 1.75 m³ / 2.29 yd³ (1,160 kg / 2,560 lb).

Undercarriage	LC				
Pad width	mm / in	600 / 24"	700 / 28"	800 / 31"	900 / 35"
Weight	kg / lb	30,150 / 66,470	30,500 / 67,240	30,850 / 68,010	31,200 / 68,780
Ground pressure	kg/cm² / psi	0.59 / 8.4	0.51 / 7.3	0.45 / 6.4	0.40 / 5.7

The operating weight includes the basic machine with counterweight 6.2t / 13,670lb, mono boom 6.20 m / 20'4", stick 3.20 m / 10'6" and bucket 1.75 m³ / 2.29 yd³ (1,160 kg / 2,560 lb).

Undercarriage	LC				
Pad width	mm/in	600/24"	700/28"	800/31"	900/35"
Weight	kg/lb	31,250/68,890	31,600/69,670	31,950/70,440	32,300/71,210
Ground pressure	kg/cm²/psi	0.61/8.7	0.53/7.5	0.47/6.7	0.42/6.0

Buckets Machine stability per ISO 10567* (75 % of tipping capacity)

					LC undercarriage (with track pads 800 mm / 31")								
Cutting width	Capacity ISO 7451	Weight ³⁾	Weight ⁴⁾	Stick length (m / ft in)									
				without quick coupler				with quick coupler					
				2.50 8'2"	2.80 9'2"	3.20 10'6"	3.70 12'2"	2.50 8'2"	2.80 9'2"	3.20 10'6"	3.70 12'2"		
with counterweight 4.6t / 10,140 lb													
STD ¹⁾	1,250 4'1"	1.25 1.63	1,000 2,210	1,050 2,320	▲	▲	▲	▲	▲	▲	▲	▲	
	1,400 4'7"	1.45 1.90	1,070 2,360	1,130 2,490	▲	▲	▲	▲	▲	▲	▲	■	
	1,550 5'1"	1.60 2.09	1,110 2,450	1,170 2,580	▲	▲	▲	■	▲	▲	■	▲	
	1,650 5'5"	1.75 2.29	1,160 2,560	1,220 2,690	▲	▲	■	▲	▲	■	▲	■	
	1,550 5'1"	1.85 2.42	1,170 2,580	1,230 2,710	▲	■	▲	■	■	■	▲	△	
	1,650 5'5"	2.00 2.62	1,210 2,670	1,270 2,800	■	▲	■	△	■	▲	■	△	
	1,750 5'9"	2.15 2.81	1,260 2,780	1,320 2,910	▲	■	△	△	▲	■	△	△	
	HD ²⁾	1,250 4'1"	1.25 1.63	1,140 2,510	1,200 2,650	▲	▲	▲	▲	▲	▲	▲	▲
		1,400 4'7"	1.45 1.90	1,230 2,710	1,290 2,840	▲	▲	▲	▲	▲	▲	▲	■
		1,550 5'1"	1.60 2.09	1,290 2,840	1,350 2,980	▲	▲	■	▲	▲	▲	■	■
1,650 5'5"		1.75 2.29	1,350 2,980	1,410 3,110	▲	■	▲	■	▲	■	▲	△	
1,550 5'1"		1.85 2.42	1,340 2,950	1,400 3,090	▲	■	▲	■	■	▲	■	△	
1,650 5'5"		2.00 2.62	1,400 3,090	1,460 3,220	■	▲	■	△	▲	■	△	△	
1,750 5'9"		2.15 2.81	1,450 3,200	1,510 3,330	▲	■	△	△	■	△	△	—	
with counterweight 5.1t / 11,240 lb													
STD ¹⁾		1,250 4'1"	1.25 1.63	1,000 2,210	1,050 2,320	▲	▲	▲	▲	▲	▲	▲	▲
		1,400 4'7"	1.45 1.90	1,070 2,360	1,130 2,490	▲	▲	▲	▲	▲	▲	▲	▲
	1,550 5'1"	1.60 2.09	1,110 2,450	1,170 2,580	▲	▲	▲	▲	▲	▲	▲	▲	
	1,650 5'5"	1.75 2.29	1,160 2,560	1,220 2,690	▲	▲	▲	■	▲	▲	▲	■	
	1,550 5'1"	1.85 2.42	1,170 2,580	1,230 2,710	▲	▲	▲	■	▲	▲	■	▲	
	1,650 5'5"	2.00 2.62	1,210 2,670	1,270 2,800	▲	▲	■	▲	▲	■	▲	■	
	1,750 5'9"	2.15 2.81	1,260 2,780	1,320 2,910	▲	■	▲	■	■	▲	■	△	
	HD ²⁾	1,250 4'1"	1.25 1.63	1,140 2,510	1,200 2,650	▲	▲	▲	▲	▲	▲	▲	▲
		1,400 4'7"	1.45 1.90	1,230 2,710	1,290 2,840	▲	▲	▲	▲	▲	▲	▲	▲
		1,550 5'1"	1.60 2.09	1,290 2,840	1,350 2,980	▲	▲	▲	▲	▲	▲	▲	■
1,650 5'5"		1.75 2.29	1,350 2,980	1,410 3,110	▲	▲	▲	■	▲	▲	■	▲	
1,550 5'1"		1.85 2.42	1,340 2,950	1,400 3,090	▲	▲	■	▲	▲	▲	■	▲	
1,650 5'5"		2.00 2.62	1,400 3,090	1,460 3,220	▲	■	▲	■	▲	■	▲	■	
1,750 5'9"		2.15 2.81	1,450 3,200	1,510 3,330	■	■	▲	△	■	▲	■	△	

* Indicated loads are based on ISO 10567, at maximum reach, and may be swung 360° on firm and even ground

¹⁾ Standard bucket with teeth Z 40

²⁾ HD bucket with teeth Z 40

³⁾ Bucket for direct mounting

⁴⁾ Bucket for mounting to quick coupler SWA 66 (350 kg / 770 lb)

Other buckets available upon request

Max. material weight ▲ = ≤ 2.0 t/m³ / 3,400 lb/yd³, ■ = ≤ 1.8 t/m³ / 3,000 lb/yd³, ▲ = ≤ 1.65 t/m³ / 2,800 lb/yd³, ■ = ≤ 1.5 t/m³ / 2,500 lb/yd³, △ = ≤ 1.2 t/m³ / 2,000 lb/yd³, — = not authorized

Lift capacities

with mono boom 6.20 m / 20'4", counterweight 5.1 t / 11,240 lb and track pads 800 mm / 31"

Stick 2.50 m / 8'2"

Under-carriage		3.0m 10 ft		4.5m 15 ft		6.0m 20 ft		7.5m 25 ft		9.0m 30 ft		m ft in	
LC	9.0m t												
	30 ft lb												
	7.5m t					8.1	9.0*					7.2	8.3*
	25 ft lb					17.4	19.8*					16.3	18.5*
	6.0m t					8.0	9.3*					5.6	8.1*
	20 ft lb					17.2	20.2*					12.6	17.8*
	4.5m t			11.8	12.8*	7.6	10.2*	5.5	8.2			4.9	7.3
	15 ft lb			25.4	27.6*	16.5	22.0*	11.8	17.7			10.8	16.2
	3.0m t			10.8	15.3*	7.2	11.2*	5.3	8.0			4.5	6.8
	10 ft lb			23.4	32.9*	15.6	24.4*	11.4	17.3			9.9	15.0
	1.5m t			10.3	16.5*	6.9	11.0	5.1	7.9			4.4	6.7
	5 ft lb			22.1	35.6*	14.9	23.6	11.0	16.9			9.6	14.7
	0m t			10.1	16.2*	6.7	10.8	5.0	7.7			4.5	6.9
	0 ft lb			21.7	35.3*	14.5	23.1	10.8	16.7			9.9	15.2
	-1.5m t	13.0*	13.0*	10.1	15.0*	6.7	10.7	5.0	7.7			4.9	7.6
	-5 ft lb	29.5*	29.5*	21.8	32.7*	14.5	23.1					10.9	16.8
	-3.0m t	15.9*	15.9*	10.3	12.8*	6.8	9.9*					5.9	8.5
	-10 ft lb	34.5*	34.5*	22.2	27.7*	14.7	21.2*					13.2	18.7*
	-4.5m t			8.7*	8.7*							7.4*	7.4*
	-15 ft lb			18.3*	18.3*							16.1*	16.1*
	-6.0m t												
	-20 ft lb												

Stick 2.80 m / 9'2"

Under-carriage		3.0m 10 ft		4.5m 15 ft		6.0m 20 ft		7.5m 25 ft		9.0m 30 ft		m ft in	
LC	9.0m t												
	30 ft lb												
	7.5m t					8.2	8.5*					6.7	7.3*
	25 ft lb					17.6	18.8*					15.0	16.2*
	6.0m t					8.0	8.9*	5.6	8.2*			5.3	7.1*
	20 ft lb					17.3	19.3*	12.0	16.8*			11.8	15.7*
	4.5m t	18.5*	18.5*	11.9	12.2*	7.7	9.8*	5.5	8.3			4.6	6.9
	15 ft lb	39.1*	39.1*	25.7	26.4*	16.6	21.3*	11.8	17.8			10.2	15.4
	3.0m t			10.9	14.7*	7.3	11.0*	5.3	8.0			4.3	6.5
	10 ft lb			23.6	31.7*	15.7	23.7*	11.4	17.3			9.4	14.3
	1.5m t			10.3	16.2*	6.9	11.0	5.1	7.8			4.1	6.3
	5 ft lb			22.2	35.1*	14.9	23.6	11.0	16.9			9.1	14.0
	0m t			10.0	16.3*	6.7	10.7	5.0	7.7			4.3	6.5
	0 ft lb			21.6	35.4*	14.4	23.0	10.7	16.6			9.4	14.4
	-1.5m t	12.5*	12.5*	10.0	15.3*	6.6	10.6	4.9	7.7			4.6	7.1
	-5 ft lb	28.5*	28.5*	21.6	33.3*	14.3	22.9	10.7	16.5			10.2	15.8
	-3.0m t	17.1*	17.1*	10.2	13.4*	6.7	10.3*					5.5	8.3*
	-10 ft lb	37.1*	37.1*	21.9	28.9*	14.5	22.1*					12.2	18.3*
	-4.5m t	12.1*	12.1*	9.7*	9.7*							7.6*	7.6*
	-15 ft lb	25.9*	25.9*	20.6*	20.6*							16.5*	16.5*
	-6.0m t												
	-20 ft lb												

Stick 3.20 m / 10'6"

Under-carriage		3.0m 10 ft		4.5m 15 ft		6.0m 20 ft		7.5m 25 ft		9.0m 30 ft		m ft in	
LC	9.0m t											6.9*	6.9*
	30 ft lb											13.5	13.9*
	7.5m t					8.1	8.4*	5.6	7.8*			4.9	6.1*
	25 ft lb					17.4	18.2*	12.1	17.1*			10.9	13.5*
	6.0m t					7.7	9.3*	5.5	8.2*			4.3	6.2*
	20 ft lb					16.7	20.2*	11.8	17.8			9.5	13.6*
	4.5m t			11.4*	11.4*	7.3	10.5*	5.3	8.0			4.0	6.1
	15 ft lb			24.6*	24.6*	16.7	20.2*	11.8	17.8			8.8	13.4
	3.0m t			11.1	14.0*	7.3	10.5*	5.3	8.0	4.0	6.1	4.0	6.1
	10 ft lb			24.0	30.2*	15.7	22.8*	11.4	17.3			8.8	13.4
	1.5m t			10.3	15.8*	6.9	11.0	5.1	7.8	3.9	6.0	3.9	5.9
	5 ft lb			22.3	34.3*	14.9	23.6	10.9	16.8			8.5	13.1
	0m t	6.5*	6.5*	10.0	16.3*	6.7	10.7	4.9	7.6			4.0	6.1
	0 ft lb	15.0*	15.0*	21.5	35.4*	14.3	23.0	10.6	16.5			8.7	13.4
	-1.5m t	12.0*	12.0*	9.9	15.7*	6.6	10.6	4.9	7.6			4.3	6.6
	-5 ft lb	27.2*	27.2*	21.3	34.0*	14.1	22.7	10.5	16.3			9.4	14.5
	-3.0m t	18.6*	18.6*	10.0	14.0*	6.6	10.6					5.0	7.7
	-10 ft lb	40.3*	40.3*	21.6	30.2*	14.2	22.8					11.0	17.1
	-4.5m t	14.0*	14.0*	10.3	10.9*	6.8	8.0*					6.6	7.6*
	-15 ft lb	30.0*	30.0*	22.2	23.2*							14.9	16.7*
	-6.0m t												
	-20 ft lb												

Stick 3.70 m / 12'2"

Under-carriage		3.0m 10 ft		4.5m 15 ft		6.0m 20 ft		7.5m 25 ft		9.0m 30 ft		m ft in	
LC	9.0m t											5.7*	5.7*
	30 ft lb											12.7*	12.7*
	7.5m t							5.8	6.0*			5.3*	5.3*
	25 ft lb							12.2*	12.2*			11.6*	11.6*
	6.0m t							5.7	7.3*			4.5	5.1*
	20 ft lb							12.3	15.9*			10.0	11.3*
	4.5m t					7.8	8.7*	5.5	7.8*	4.1	5.9*	4.0	5.2*
	15 ft lb					16.9	18.9*	11.9	16.9*	8.8	11.5*	8.8	11.4*
	3.0m t	11.4*	11.4*	11.3	13.1*	7.4	10.0*	5.3	8.1	4.0	6.1	3.7	5.4*
	10 ft lb	29.6*	29.6*	24.5	28.2*	15.9	21.7*	11.4	17.4	8.6	13.1	8.1	11.9*
	1.5m t			10.5	15.3*	6.9	11.0	5.1	7.8	3.9	5.9	3.6	5.5
	5 ft lb	12.5*	12.5*	22.6	33.0*	15.0	23.7	10.9	16.8	8.3	12.8	7.9	12.1
	0m t	7.6*	7.6*	10.0	16.2*	6.6	10.7	4.9	7.6	3.8	5.8	3.6	5.6
	0 ft lb	17.2*	17.2*	21.5	35.1*	14.3	23.0	10.5	16.4	8.2	12.6	8.0	12.4
	-1.5m t	11.6*	11.6*	9.8	15.9*	6.5	10.5	4.8	7.5			3.9	6.0
	-5 ft lb	26.1*	26.1*	21.2	34.6*	14.0	22.6	10.3	16.2			8.6	13.3
	-3.0m t	17.0*	17.0*	9.9	14.6*	6.5	10.5	4.8	7.5			4.4	6.9
	-10 ft lb	38.5*	38.5*	21.3	31.7*	14.0	22.6	10.4	16.3			9.8	15.3
	-4.5m t	16.1*	16.1*	10.1	12.1*	6.6	9.1*					5.7	7.6*
	-15 ft lb	34.6*	34.6*	21.8	25.9*	14.4	19.3*					12.7	16.7*
	-6.0m t			7.1*	7.1*							6.5*	6.5*
	-20 ft lb												

Height Can be slewed through 360° In longitudinal position of undercarriage Max. reach * Limited by hydr. capacity

The load values are quoted in tons (t) / lb x 1,000 at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 800 mm / 31" wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 410 kg / 905 lb. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

Lift capacities

with mono boom 6.20 m / 20'4", counterweight 6.2 t / 13,670 lb and track pads 800 mm / 31"

Stick 2.50 m / 8'2"

Under-carriage	3.0m 10 ft	4.5m 15 ft	6.0m 20 ft	7.5m 25 ft	9.0m 30 ft	Max. reach m ft in
9.0m t						
30 ft lb						
7.5m t			8.9	9.0*		7.9 8.3*
25 ft lb			19.0	19.8*		17.9 18.5*
6.0m t			8.7	9.3*		6.2 8.1*
20 ft lb			18.8	20.2*		13.8 17.8*
4.5m t		12.8* 12.8*	8.4 10.2*	6.0 8.8*		5.4 8.0 8.1
15 ft lb		27.6* 27.6*	18.1 22.0*	13.0 19.3*		11.9 17.7 26.5"
3.0m t		12.0 15.3*	8.0 11.2*	5.8 8.8		5.0 7.4 8.4
10 ft lb		25.8 32.9*	17.3 24.4*	12.6 18.9		11.0 16.4 27.6"
1.5m t		11.4 16.5*	7.7 11.9	5.7 8.6		4.9 7.3 8.4
5 ft lb		24.6 35.6*	16.6 25.7	12.3 18.5		10.7 16.1 27.7"
0m t		11.2 16.2*	7.5 11.7	5.6 8.5		5.0 7.5 8.2
0 ft lb		24.1 35.3*	16.2 25.3	12.0 18.2		11.0 16.6 26.8"
-1.5m t	13.0* 13.0*	11.2 15.0*	7.5 11.6*	5.6 8.5		5.5 8.3 7.6
-5 ft lb	29.5* 29.5*	24.2 32.7*	16.1 25.1*			12.1 18.4 24.1"
-3.0m t	15.9* 15.9*	11.4 12.8*	7.6 9.9*			6.6 8.5* 6.7
-10 ft lb	34.5* 34.5*	24.6 27.7*	16.4 21.2*			14.7 18.7* 21.10"
-4.5m t		8.7* 8.7*				7.4* 7.4* 5.2
-15 ft lb		18.3* 18.3*				16.1* 16.1* 16.8"
-6.0m t						
-20 ft lb						

Stick 2.80 m / 9'2"

Under-carriage	3.0m 10 ft	4.5m 15 ft	6.0m 20 ft	7.5m 25 ft	9.0m 30 ft	Max. reach m ft in
9.0m t						
30 ft lb						
7.5m t			8.5* 8.5*			7.3 7.3*
25 ft lb			18.8* 18.8*			16.2* 16.2*
6.0m t			8.8 8.9*	6.2 8.2*		5.8 7.1*
20 ft lb			18.9 19.3*	13.3 16.8*		13.0 15.7*
4.5m t	18.5* 18.5*	12.2* 12.2*	8.4 9.8*	6.0 8.6*		5.1 7.2*
15 ft lb	39.1* 39.1*	26.4* 26.4*	18.2 21.3*	13.0 18.7*		11.3 15.8*
3.0m t		12.1 14.7*	8.0 11.0*	5.8 8.8		4.7 7.1 8.6
10 ft lb		26.0 31.7*	17.3 23.7*	12.6 18.9		10.5 15.6 28.4"
1.5m t		11.4 16.2*	7.7 11.8*	5.6 8.5		4.6 6.9 8.7
5 ft lb		24.6 35.1*	16.5 25.7*	12.2 18.4		10.2 15.3 28.6"
0m t		11.2 16.3*	7.4 11.7	5.5 8.4		4.7 7.1 8.4
0 ft lb		24.0 35.4*	16.1 25.2	11.9 18.1		10.5 15.7 27.8"
-1.5m t	12.5* 12.5*	11.1 15.3*	7.4 11.6	5.5 8.4		5.2 7.8 7.9
-5 ft lb	28.5* 28.5*	24.0 33.3*	15.9 25.0	11.9 18.1		11.4 17.2 25.1"
-3.0m t	17.1* 17.1*	11.3 13.4*	7.5 10.3*			6.1 8.3* 7.0
-10 ft lb	37.1* 37.1*	24.3 28.9*	16.1 22.1*			13.5 18.3* 22.11"
-4.5m t	12.1* 12.1*	9.7* 9.7*				7.6* 7.6* 5.6
-15 ft lb	25.9* 25.9*	20.6* 20.6*				16.5* 16.5* 18.1"
-6.0m t						
-20 ft lb						

Stick 3.20 m / 10'6"

Under-carriage	3.0m 10 ft	4.5m 15 ft	6.0m 20 ft	7.5m 25 ft	9.0m 30 ft	Max. reach m ft in
9.0m t						6.9* 6.9*
30 ft lb						5.8
7.5m t						6.3* 6.3*
25 ft lb						13.9* 13.9*
6.0m t			8.4* 8.4*	6.2 7.8*		5.4 6.1*
20 ft lb			18.2* 18.2*	13.4 17.1*		12.0 13.5*
4.5m t		11.4* 11.4*	8.5 9.3*	6.0 8.2*		4.8 6.2*
15 ft lb		24.6* 24.6*	18.3 20.2*	13.0 17.9*		10.5 13.6*
3.0m t		12.2 14.0*	8.0 10.5*	5.8 8.8	4.4 6.5*	4.4 6.4*
10 ft lb		26.4 30.2*	17.4 22.8*	12.6 18.9		9.8 14.1*
1.5m t		11.5 15.8*	7.7 11.6*	5.6 8.5	4.4 6.5	4.3 6.5 9.0
5 ft lb		24.7 34.3*	16.5 25.0*	12.1 18.4		9.5 14.3 29.8"
0m t	6.5* 6.5*	11.1 16.3*	7.4 11.7	5.5 8.4		4.4 6.7 8.8
0 ft lb	15.0* 15.0*	23.9 35.4*	16.0 25.1	11.8 18.0		9.7 14.7 28.11"
-1.5m t	12.0* 12.0*	11.0 15.7*	7.3 11.5	5.4 8.3		4.8 7.2 8.3
-5 ft lb	27.2* 27.2*	23.7 34.0*	15.8 24.8	11.7 17.9		10.5 15.9 27.2"
-3.0m t	18.6* 18.6*	11.1 14.0*	7.3 10.7*			5.5 8.0* 7.5
-10 ft lb	40.3* 40.3*	24.0 30.2*	15.9 23.1*			12.3 17.7* 24.5"
-4.5m t	14.0* 14.0*	10.9* 10.9*	7.6 8.0*			7.3 7.6* 6.2
-15 ft lb	30.0* 30.0*	23.2* 23.2*				16.5 16.7* 19.11"
-6.0m t						
-20 ft lb						

Stick 3.70 m / 12'2"

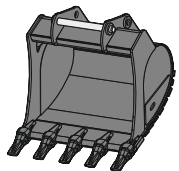
Under-carriage	3.0m 10 ft	4.5m 15 ft	6.0m 20 ft	7.5m 25 ft	9.0m 30 ft	Max. reach m ft in
9.0m t						5.7* 5.7*
30 ft lb						6.5
7.5m t						12.7* 12.7*
25 ft lb						20.8"
6.0m t			6.0* 6.0*			5.3* 5.3*
20 ft lb			12.2* 12.2*			11.6* 11.6*
4.5m t			6.3 7.3*			25.2"
15 ft lb			13.5 15.9*			4.9 5.1*
3.0m t	11.4* 11.4*	12.5 13.1*	8.6 8.7*	6.1 7.8*	4.6 5.9*	8.6
10 ft lb	29.6* 29.6*	26.9 28.2*	17.5 21.7*	12.6 18.3*	9.6 14.3	4.4 5.2*
1.5m t		11.6 15.3*	7.7 11.2*	5.6 8.5	4.3 6.5	30"
5 ft lb	12.5* 12.5*	25.0 33.0*	16.6 24.2*	12.1 18.4	9.3 14.0	4.1 5.4*
0m t	7.6* 7.6*	11.1 16.2*	7.4 11.7	5.4 8.3	4.2 6.4	9.4
0 ft lb	17.2* 17.2*	23.9 35.1*	15.9 25.1	11.7 18.0	9.1 13.8	9.1 11.9*
-1.5m t	11.6* 11.6*	10.9 15.9*	7.2 11.5	5.3 8.2		31'
-5 ft lb	26.1* 26.1*	23.6 34.6*	15.6 24.7	11.5 17.7		4.0 5.8*
-3.0m t	17.0* 17.0*	11.0 14.6*	7.2 11.1*	5.4 8.3		8.9 12.8*
-10 ft lb	38.5* 38.5*	23.7 31.7*	15.6 24.0*	11.6 17.8		4.1 6.2 9.2
-4.5m t	16.1* 16.1*	11.2 12.1*	7.4 9.1*			4.4 6.6 8.8
-15 ft lb	34.6* 34.6*	24.2 25.9*	16.0 19.3*			9.6 14.6 28.8"
-6.0m t		7.1* 7.1*				5.0 7.6 8.0
-20 ft lb						11.0 16.8 26.1"

 Height  Can be slewed through 360°  In longitudinal position of undercarriage  Max. reach * Limited by hydr. capacity

The load values are quoted in tons (t) / lb x 1,000 at stick end (without bucket), and may be swung 360° on firm and even ground. Adjacent values are valid for the undercarriage when in the longitudinal position. Capacities are valid for 800 mm / 31" wide track pads. Indicated loads are based on ISO 10567 standard and do not exceed 75% of tipping or 87% of hydraulic capacity (indicated via *). Without bucket cylinder, link and lever the lift capacities will increase by 410 kg / 905 lb. Lifting capacity of the excavator is limited by machine stability and hydraulic capacity.

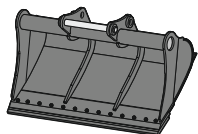
Determine maximum load lift from load lift chart displayed in the operator's cab or from load lift chart detailed in the operator's manual supplied with the machine.

Attachments



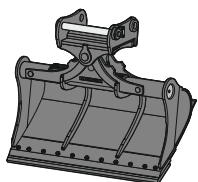
Backhoe bucket TL 05

Mounting	direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink							
Cutting width	mm	800 ²⁾ / 2'7" ²⁾	1,050 / 3'5"	1,250 / 4'1"	1,400 / 4'7"	1,550 / 5'1"	1,650 / 5'5"	1,750 / 5'9"
Capacity	m ³	0.70 / 0.92	1.00 / 1.31	1.25 / 1.63	1.45 / 1.90	1.60 / 2.09	1.75 / 2.29	2.15 / 2.81
Weight ¹⁾	kg	810 / 1,786	870 / 1,918	990 / 2,183	1,050 / 2,315	1,130 / 2,491	1,180 / 2,601	1,270 / 2,800



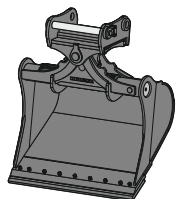
Ditch cleaning bucket GRL rigid 05

Mounting	direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink						
Cutting width	mm / ft in	2,000 / 6'7"		2,400 / 7'10"		2,400 / 7'10"	
Capacity	m ³ / yd ³	0.70 / 0.92		0.85 / 1.11		1.15 / 1.50	
Weight ¹⁾	kg / lb	550 / 1,213		639 / 1,409		718 / 1,583	



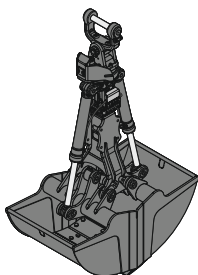
Ditch cleaning bucket GRL 100

Mounting	direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink						
Cutting width	mm / ft in	2,000 / 6'7"	2,000 / 6'7"	2,000 / 6'7"	2,200 / 7'3"	2,400 / 7'10"	2,400 / 7'10"
Capacity	m ³ / yd ³	0.70 / 0.92	1.20 / 1.57	1.45 / 1.90	1.65 / 2.16	0.85 / 1.11	1.45 / 1.90
Weight ¹⁾	kg / lb	1,375 / 3,031	1,520 / 3,351	1,600 / 3,527	1,675 / 3,693	1,480 / 3,263	1,625 / 3,583
Tilt angle		2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°	2 x 50°



Tilt bucket SL 100

Mounting	direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink						
Cutting width	mm / ft in	1,600 / 5'3"	1,600 / 5'3"	1,700 ³⁾ / 5'7" ³⁾		1,800 / 5'11"	1,800 ³⁾ / 5'11" ³⁾
Capacity	m ³ / yd ³	1.45 / 1.90	1.75 / 2.29	1.85 / 2.42		1.60 / 2.09	2.00 / 2.62
Weight ¹⁾	kg / lb	1,520 / 3,351	1,630 / 3,594	1,800 / 3,968		1,610 / 3,549	1,860 / 4,101
Tilt angle		2 x 50°	2 x 50°	2 x 50°		2 x 50°	2 x 50°



Clamshell grab

GMZ 30 Clamshell buckets									
Mounting		direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink, Oilquick OQ 70, Oilquick OQ 70/55, Oilquick OQ 80							
Shell width	mm / ft in	600 / 2'	800 / 2'7"	1,000 / 3'3"	1,200 / 3'11"				
Capacity ⁴⁾	m ³ / yd ³	0.38 / 0.50	0.52 / 0.68	0.65 / 0.85	0.80 / 1.05				
Opening width	mm / ft in	1,644 / 5'5"	1,644 / 5'5"	1,644 / 5'5"	1,644 / 5'5"				
Weight ⁵⁾	kg / lb	1,050 / 2,315	1,130 / 2,491	1,210 / 2,668	1,290 / 2,844				
GMZ 40 Clamshell buckets									
Mounting		direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink, Oilquick OQ 70, Oilquick OQ 70/55, Oilquick OQ 80							
Shell width	mm / ft in	800 / 2'7"	1,000 / 3'3"	1,200 / 3'11"	1,400 / 4'7"	1,600 / 5'3"			
Capacity ⁴⁾	m ³ / yd ³	0.65 / 0.85	0.85 / 1.11	1.05 / 1.37	1.20 / 1.57	1.40 / 1.83			
Opening width	mm / ft in	1,962 / 6'5"	1,962 / 6'5"	1,962 / 6'5"	1,962 / 6'5"	1,962 / 6'5"			
Weight ⁵⁾	kg / lb	1,345 / 2,965	1,430 / 3,153	1,520 / 3,351	1,605 / 3,538	1,695 / 3,737			
GMZ 80 Clamshell buckets									
Mounting		direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink, Oilquick OQ 80							
Shell width	mm / ft in	1,200 / 3'11"	1,200 / 3'11"	1,400 / 4'7"	1,400 / 4'7"	1,650 / 5'5"	1,650 / 5'5"	2,000 / 6'7"	2,000 / 6'7"
Capacity ⁴⁾	m ³ / yd ³	1.40 / 1.83	1.40 / 1.83	1.70 / 2.22	1.70 / 2.22	2.00 / 2.62	2.00 / 2.62	2.50 / 3.27	2.50 / 3.27
Opening width	mm / ft in	2,128 / 7'	2,128 / 7'	2,128 / 7'	2,128 / 7'	2,128 / 7'	2,128 / 7'	2,128 / 7'	2,128 / 7'
Weight ⁵⁾	kg / lb	2,170 ⁶⁾ / 4,784 ⁶⁾	2,130 / 4,696	2,275 ⁶⁾ / 5,016 ⁶⁾	2,225 / 4,905	2,415 ⁶⁾ / 5,324 ⁶⁾	2,345 / 5,170	2,595 ⁶⁾ / 5,721 ⁶⁾	2,520 / 5,556

¹⁾ based on an attachment in a standard design with SWA 66 Solidlink quick coupler mounting

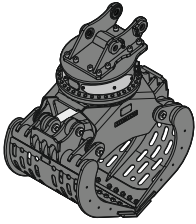
²⁾ for SWA 66 quick coupler mounting only

³⁾ HD version

⁴⁾ capacity specifications are theoretically determined values; fill level varies depending on the material being loaded

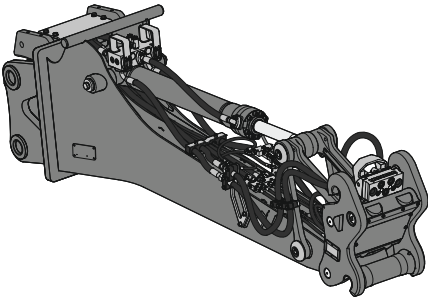
⁵⁾ with XHD suspension

⁶⁾ incl. teeth



Sorting grab SG 30B

Mounting	direct mounting, SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink, Oilquick OQ 70, Oilquick OQ 70/55, Oilquick OQ 80								
Shell type	perforated ²⁾			ribbed ²⁾			closed ²⁾		Stone shell ³⁾
Shell width	mm / ft in	1,000 / 3'3"	1,200 / 3'11"	1,400 / 4'7"	1,000 / 3'3"	1,200 / 3'11"	1,400 / 4'7"	1,000 / 3'3"	1,020 / 3'4"
Capacity	m ³ / yd ³	0.85 / 1.11	1.00 / 1.31	1.15 / 1.50	0.75 / 0.98	0.90 / 1.18	1.05 / 1.37	0.85 / 1.11	0.85 / 1.11
Max. closing force	kN / lbf	80 / 17,985	80 / 17,985	80 / 17,985	80 / 17,985	80 / 17,985	80 / 17,985	80 / 17,985	80 / 17,985
Weight ⁶⁾	kg / lb	1,485 / 3,274	1,560 / 3,439	1,635 / 3,605	1,565 / 3,450	1,675 / 3,693	1,780 / 3,924	1,515 / 3,340	1,815 / 4,001



Stick extension LS 18

Mounting machine side	SWA 48 mechanical, SWA 48 hydraulic, SWA 48 Solidlink, SWA 48 Solidlink-10, SWA 66 mechanical, SWA 66 hydraulic, SWA 66 Solidlink		
Mounting attachment side	direct mounting, SWA 33 mechanical, SWA 33 mechanical Solidlink ⁽⁵⁾ , SWA 33 hydraulic ⁽⁷⁾ , SWA 33 Solidlink ^{(4) (7) (8)} , SWA 48 mechanical, SWA 48 mechanical Solidlink ⁽⁵⁾ , SWA 48 hydraulic ⁽⁷⁾ , SWA 48 Solidlink ^{(4) (7) (8)}		
Length	m / ft in	2.65 / 8'8"	3.05 / 10'
Weight ⁽⁴⁾	kg / lb	1,130 / 2,491	1,190 / 2,624

¹⁾ without quick coupler mounting

²⁾ with standard bolt-on cutting edge

³⁾ with Liebherr teeth Z 40 C

⁴⁾ based on standard stick extension LS 18 with SWA 48 Solidlink quick coupler mountings on both sides (underside of stick extension and machine side mounting) and electric switchover

⁵⁾ attachment with high pressure circuit only possible with the manual switchover tipping cylinder or an extended hydraulic circuit on the carrier machine

⁶⁾ attachment with high pressure circuit only possible with the electric / manual switchover tipping cylinder or an extended hydraulic circuit on the carrier machine

⁷⁾ 14-pin signal contact strip is required, for example to control and monitor the hydraulic quick coupling system on the stick extension on the attachment side or to transfer electrical signals for the switchover

⁸⁾ to use different hydraulic circuits, either Solidlink 33-9 / Solidlink 48-10 is required on the machine side, or a switchover system using the equipment power socket, controlled via the carrier machine's signal contact strip