STANDARD EQUIPMENT

ISO standard cabin ·Cabin ROPS(ISO 3471) FOPS(ISO 3449) TOPS(ISO 12117) ·All-weather steel cab with

all-around visibility ·Safety glass windows ·Sliding fold-in front window ·Sliding side window

·Accessory box ·Centralized monitoring ·Gauges Fuel level gauge Engine coolant temperature

gauge ·Warning Quick clamp

Engine oil pressure Engine coolant temperature Preheat Low battery Air cleaner closing Fuel empty ·Door and locks, one key

· Radio / USB player

·Mechanical suspension seat

with seat belt ·Console box tilting system(LH.) ·Two front working lights ·Electric horn ·Battery (1 x 12 V x 80 AH) ·Battery master switch ·Automatic swing brake ·Removable reservoir tank ·Water separator, fuel line

·Mono boom (2.03 m, 6' 8") ·Arm (1.12 m, 3' 8") ·Rubber crawler (300mm, 12") Single acting piping (Breaker, etc)
Double acting piping (Clamshell, etc)

OPTIONAL EQUIPMENT

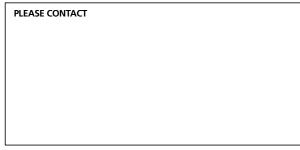
ISO standard canopy ·Canopy ROPS(ISO 3471) FOPS(ISO 3449) TOPS(ISO 12117)

·Beacon lamp ·Accumulator, work equipmer lowering ·Travel alarm

·Quick coupler ·Tool kit ·Long Arm (1.35m, 4'5") ·Heater & Defroster

·Lever pattern change valve ·Additional CWT

- * Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.
- * The photos may include attachments and optional equipment that are not available in your area.
- * Materials and specifications are subject to change without advance notice.
- * All imperial measurements rounded off to the nearest pound or inch.





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100 27z-9

Machine Walk-Around

Rugged Upper and Lower Frame

The upper frame is designed to be heavy duty to absorb high stress load on the job. X-leg center frame and reinforced box section track frame provide exceptional strength and longer service life to withstand tough working conditions.

Engine Technology

The R27Z-9 is powered by a proven and reliable, Tier 4 certified Mitsubishi S3L2. This engine provides efficient fuel combustion and reduced noise.

Efficient Control System

Control devices are all conveniently located for improved operator comfort and productivity.

A safety lever on the left-side console is designed to prevent exiting the cabin while hydraulic controls are live.

Advanced Hydraulic System

The R27Z-9 hydraulic system is precision designed for fast operation with fine control capabilities.

Comfortable and Durable Cabin

The cabin is roomy and ergonomically designed, with reduced sound levels and good visibility. Both canopy and cabin style frames meet international standards TOPS, ROPS, FOPS ensuring operator's safety.

Operator Convenience

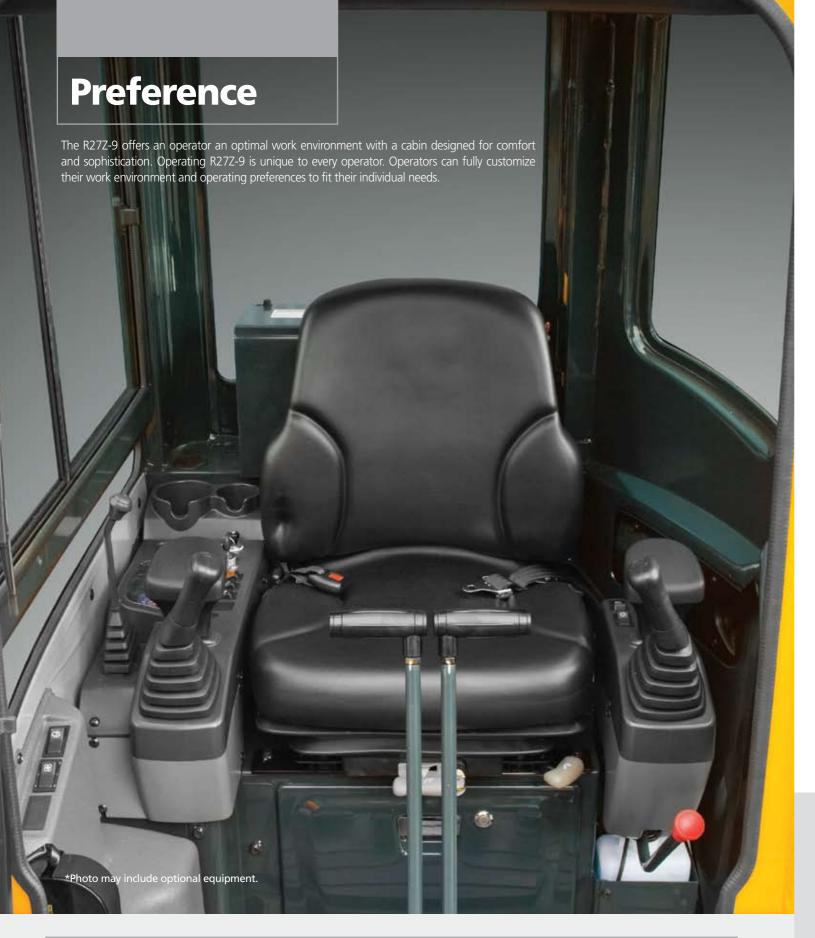
The R27Z-9 features a suspension seat, foldable pedals for added space and multiple storage compartments. The monitoring system includes seven warning indicators, water temperature gauge, fuel gauge and hour meter for productive, convenient operating.

Easy and Simple Maintenance

An adjustable suspension seat, wrist rests, ergonomically designed joysticks and plenty of leg room help to reduce operator fatigue. A array of indicators and gauges are displayed on the monitor which keep the operator aware of machine performance at all times. The monitoring system includes seven warning indicators, water temperature gauge, fuel gauge and hour meter.

Extended Life of Components

The R27Z-9 reduces operating costs over time with long life hydraulic filters, hydraulic oil, shims and bushings.





Monitor

The monitoring system of the R27Z-9 provides the operator with machine status information, including: engine oil pressure, battery charge, engine coolant temperature and a fuel gauge.

Comfortable Operating Cabin

In a 9 series cabin, you can easily adjust the seat and wrist rests settings to best suit your preferred operating condition

- 1. All pedals are foldable for additional floor space. Foot rest, attachment pedal, left and right travel pedals and boom swing pedal are arranged for convenient access.
- 2. Two cup holders are integrated into the right console for large and small drink storage.
- 3. An additional storage box with key lock is accessible under the operator's seat.
- 4. Adjustable wrist rests provide additional comfort.
- 5. A sliding fold-in front window is easily opened and safely stored in an open position to improve ventilation and visibility.(Cabin type only)





Reduced Stress

An operator's work environment should be stress free. Hyundai's R27Z-9 compact excavator is designed for comfort, reduced sound and plenty of space to reduce stress on the operator.



Performance & Precision New technologies designed to improve performance and precision, make the R27Z-9 smooth, fast and easy to control. HYUNDAI *Photo may include optional equipment.



Boom Swing

The R27Z-9's boom swing function is designed for efficient work in congested residential and urban areas. The boom can be offset left or right within an operating range.



Structure Strength

The R27Z-9 cabin structure has been fitted with stronger but slimmer tubing for added safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests.



Improved Hydraulic System

Optimized matching between the joystick and main control valve improves fine control and smoothness of operation. An arm flow summation system provides energy savings, reduced cavitation and increased speed. To improve safety and avoid boom drift the R27Z-9 is equipped with an integrated boom holding system.

Zero-tail Swing

R27Z-9's short tail swing radius allows the operator work in confined areas like close to buildings on roadways, and in urban areas. This compact radius design provides easy and efficient operation in any limited space work environment.



Mitsubishi S3L2

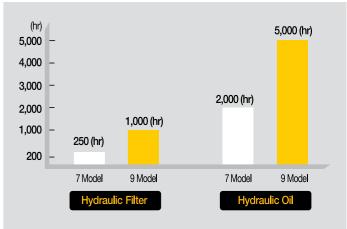
Tier 4 certified, Mitsubishi S3L2 engine provides maximum power, reliability, optimum fuel economy, and reduced emissions.

Profitability R27Z-9 is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components. *Photo may include optional equipment.



Easy Access

The R27Z-9 was built with accessibility in mind. All doors, covers and hoods were built for complete open access. Regular service and maintenance is easy and convenient with the R27Z-9.



Extended Life Components

9 series excavators were designed with bushings designed for extended lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), extended-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated preheating systems which extend service intervals, minimize operating costs and reduce machine down time.



Easy Change Air Cleaner

The R27Z-9 is equipped with a durable plastic air cleaner designed for easy maintenance.



Centralized Grease Fittings

A centralized lubrication bank is available for faster, easier service and maintenance.



Cylinder Covers

Standard boom and dozer cylinder covers provide added protection.

Specifications

ENGINE

Model		Mitsubishi S3L2	
Туре		4 Cycle. In line,	
		water cooled Diesel	
Rated flywheel horse power			
SAE	J1995 (gross)	24.7 HP (18.4kW) at 2,300rpm	
	J1349 (net)	23.1 HP (17.2kW) at 2,300rpm	
DIN	627 1/1 (gross)	25.0 PS (18.4kW) at 2,300rpm	
	627 1/1 (net)	23.4 PS (17.2kW) at 2,300rpm	
Max. torque		8.0 kgf·m(58 lbf·ft) at 1,800 rpm	
Bore x stroke		78mm x 92mm (3.07" x 3.62")	
Piston displacement		1,318cc (80.4 in³)	
Batteries		12V - 80AH	
Starting motor		12V - 1.7kW	
Alternator		12V - 50A	

HYDRAULIC SYSTEM

Main pumps		
Туре	Variable displacement piston pumps	
Rated flow 2 x 27.6 + 19.6 L/min		
Sub-pump for pilot circuit Gear pump		
Hydraulic motors		
T., 1	Two speed axial piston motor with counter	
Travel	balance valve and parking brake	
Swing	Axial piston motor with automatic brake	
Relief valve setting		
Implement circuits	220 Kgf/cm² (3,130 psi)	
Travel circuit	220 Kgf/cm² (3,130 psi)	
Swing circuit	175 Kgf/cm² (2,490 psi)	
Pilot circuit	30 Kgf/cm² (430 psi)	
Service valve	Installed	

HYDRAULIC CYLINDER

No. of cylinder - bore x stroke			
Boom	75 x 565 mm (3.0" x 22.2")		
Arm	70 x 500 mm (2.8" x 19.7")		
Bucket	60 X 420 mm (2.4" x 16.5")		
Boom swing	75 X 400 mm (3.0" x 15.7")		
Dozer blade	95 X 140 mm (3.3" x 5.5")		

NOISE LEVEL(CAB)

Noise Levels (dynamic value)	
LwA	94dB
LpA	75dB

COOLANT & LUBLICANT CAPACITY

(refilling)	liter	US gal	UK gal
Fuel tank	31	8.2	6.8
Engine coolant	4.2	1.1	0.9
Engine oil	5.9	1.6	1.3
Hydraulic tank	32	8.5	7.0

TRAVEL LEVERS

Traveling and steering: Two levers with pedals.

CONTROL LEVERS

Туре		
	Two joysticks with one safety lever	
Pilot control	(LH): Swing and arm,	
	(RH): Boom and bucket with horn (ISO)	
Engine throttle	Mechanical, cable type	

SWING SYSTEM

Swing motor	Axial piston motor	
Swing reduction	Planetary gear reduction	
Swing circuit lubrication	Grease - bathed	
Swing brake	Wet disc	
Swing speed	9 rpm	

DRIVES & BRAKES

Max. travel speed(high) / (low)	4.4km / 2.4km (2.7mph) / (1.5mph)
Maximum traction force	2.4ton
Maximum gradeability	30°
Parking brake	Wet disc

DIGGING FORCE(ISO)

	2,050 kgf		
D. d. d	20.1 kN		
Bucket	4,520 lbf		
Arm	1,120mm(3' 8")	1,350mm(4' 5")	
	1,400 kgf	1,265 kgf	
	13.7 kN	12.4 kN	
	3,090 lbf	2,790 lbf	

WEIGHT(APPROXIMATE)

Operating weight, including 2,030 mm (6' 8") boom, 1,120 mm (3' 8") arm, SAE heaped 0.08 m³ (0.1 yd³) excavator bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Shoe Width		Rubber shoe 300 mm (12")	
Operating Weight	Cabin	2,880 Kg (6,350lb)	
Operating weight	Canopy	2,730 Kg (6,020lb)	
Ground Pressure	Cabin	0.29 kg / cm² (4.12psi)	
Ground Pressure	Canopy	0.27 kg / cm² (3.84psi)	

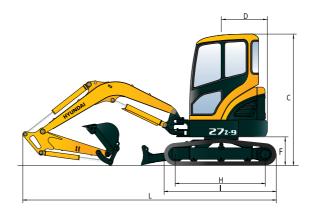
UNDERCARRIAGE

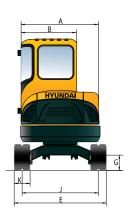
X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, track adjusters with shock absorbing springs and sprockets, and rubber shoes.

Center frame	X-leg type
Track frame	Pentagonal box type
No. of carrier roller on each side	1
No. of track roller on each side	3

Dimensions & Working Range

R27Z-9 DIMENSIONS



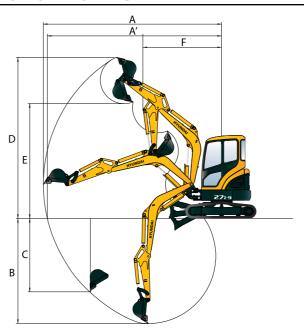


mm (ft·in)

Overall width of upper structure	1,485 (4' 10")
Overall width of cab	1,050 (3' 5")
Overall height of cab	2,500 (8' 2")
Tail swing radius	775 (2' 7")
Overall width	1,550 (5' 1")
Clearance under counterweight	540 (1' 9")
	Overall height of cab Tail swing radius Overall width

G	Ground clearance	290 (0' 11")
Н	Tumbler distance	1,550 (5' 1")
1	Track length	1,970 (6' 6")
J	Track gauge	1,250 (4' 1")
K	Track shoe width	300 (0' 12")
L	Overall length	4,180 (13' 9")
	Overall length (with long arm)	4,220 (13' 10")

R27Z-9 WORKING RANGE



		mm (ft·in)
Boom length	2,030	(6' 8")
Arm length	1,120 (3' 8")	1,350 (4' 5")
A Max. digging reach	4,650 (15' 3")	4,860 (15' 11")
A' Max. digging reach at ground	4,515 (14' 10")	4,735 (15' 6")
B Max. digging depth	2,500 (8' 2")	2,720 (8' 11")
C Max. vertical wall digging depth	2,085 (6' 10")	2,310 (7' 7")
D Max. digging height	4,270 (14' 0")	4,405 (14' 5")
E Max. dumping height	2,890 (9' 6")	3,030 (9' 11")
F Min. swing radius	2,055 (6' 9")	2,090 (6' 10")
D Max. digging height E Max. dumping height	4,270 (14' 0") 2,890 (9' 6")	4,405 (14' 5") 3,030 (9' 11")

Lifting capacity

LIFTING CAPACITIES R27Z-9

Rating over-front Rating over-side or 360 degree

oom : 2.03 m (6' 8	3") / Arr	m : 1.12 m (3	' 8") / Bucket	: 0.08 m³ (0.1	l yd³) SAE hea	ped / Dozer	up : 300mm(12") rubber t	rack			
					Load	radius					At max. reac	h
Load point		2.0 m	n(7 ft)	2.5 m(8 ft)		3.0 m(10 ft)		3.5 m(11 ft)		Capacity		Reach
height m(ft)						r r		r de la companya de l				m (ft)
3.5 m	kg									490	430	3.23
11 ft	lb									1080	950	(10.6)
3.0 m	kg					560	480			380	330	3.73
10 ft	lb					1230	1060			840	730	(12.2)
2.5 m	kg					550	470	420	360	330	280	4.06
8 ft	lb					1210	1040	930	790	730	620	(13.3)
2.0 m	kg					540	460	410	350	300	250	4.26
7 ft	lb					1190	1010	900	770	660	550	(14.0)
1.5 m	kg	1050	860	710	600	530	450	410	350	280	240	4.36
5 ft	lb	2310	1900	1570	1320	1170	990	900	770	620	530	(14.3)
1.0 m	kg	990	800	680	570	510	430	400	340	270	230	4.39
3 ft	lb	2180	1760	1500	1260	1120	950	880	750	600	510	(14.4)
0.5 m	kg	950	770	660	550	490	420	390	330	280	240	4.33
2 ft	lb	2090	1700	1460	1210	1080	930	860	730	620	530	(14.2)
Ground	kg	940	760	650	540	480	410	380	320	290	250	4.18
Line	lb	2070	1680	1430	1190	1060	900	840	710	640	550	(13.7)
-0.5 m	kg	940	760	640	530	480	400	380	320	320	270	3.93
-2 ft	lb	2070	1680	1410	1170	1060	880	840	710	710	600	(12.9)
-1.0 m	kg	950	770	640	540	480	410			380	330	3.53
-3 ft	lb	2090	1700	1410	1190	1060	900			840	730	(11.6)
-1.5 m	kg	960	780	660	550					530	450	2.90
-5 ft	lb	2120	1720	1460	1210					1170	990	(9.5)
-2.5 m	kg									*450	390	3.30
0 f+	lh.						1			*000	960	(10.0)

Boom : 2.03 m (6' 8	3") / Arr	m : 1.12 m (3	′ 8″) / Bucket	: 0.08 m³ (0.1	yd³) SAE hea	aped / Dozer	down : 300m	ım(12") rubb	er track			
-		`	•	<u> </u>		radius		<u> </u>			At max. reac	h
Load point		2.0 m	n(7 ft)	2.5 m	n(8 ft)	3.0 m	(10 ft)	3.5 m	(11 ft)	Cap	Reach	
height m(ft)												m (ft)
3.5 m	kg									*550	450	3.23
11 ft	Ιb									*1210	990	(10.6)
3.0 m	kg					*580	500			*560	350	3.73
10 ft	lb					*1280	1100			*1230	770	(12.2)
2.5 m	kg					*590	500	*600	380	*570	300	4.06
8 ft	lb					*1300	1100	*1320	840	*1260	660	(13.3)
2.0 m	kg					*670	490	*650	380	*590	270	4.26
7 ft	lb					*1480	1080	*1430	840	*1300	600	(14.0)
1.5 m	kg	*1300	920	*940	640	*790	470	*700	370	*600	250	4.36
5 ft	lb	*2870	2030	*2070	1410	*1740	1040	*1540	820	*1320	550	(14.3)
1.0 m	kg	*1860	850	*1190	610	*920	460	*770	360	*620	250	4.39
3 ft	lb	*4100	1870	*2620	1340	*2030	1010	*1700	790	*1370	550	(14.4)
0.5 m	kg	*1660	820	*1370	590	*1020	440	*830	350	*640	250	4.33
2 ft	lb	*3660	1810	*3020	1300	*2250	970	*1830	770	*1410	550	(14.2)
Ground	kg	*1910	810	*1450	570	*1080	440	*860	340	*650	270	4.18
Line	lb	*4210	1790	*3200	1260	*2380	970	*1900	750	*1430	600	(13.7)
-0.5 m	kg	*2030	810	*1430	570	*1070	430	*840	340	*660	290	3.93
-2 ft	lb	*4480	1790	*3150	1260	*2360	950	*1850	750	*1460	640	(12.9)
-1.0 m	kg	*1820	820	*1300	570	*980	430			*660	350	3.53
-3 ft	lb	*4010	1810	*2870	1260	*2160	950			*1460	770	(11.6)
-1.5 m	kg	*1430	830	*1030	580					*590	480	2.90
-5 ft	lb	*3150	1830	*2270	1280					*1300	1060	(9.5)
-2.5 m	kg									*450	410	3.30
-7 ft	lb									*990	900	(10.8)

- Lifting capacity is based on SAE J1097, ISO 10567.
 Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The load point is a hook located on the back of the bucket. 4. (*) indicates the load limited by hydraulic capacity.

■ Lifting capacity

LIFTING CAPACITIES R27Z-9

Rating over-front Rating over-side or 360 degree

Boom : 2.03 m (6' 8") / Arm : 1.35 m (4' 5") / Bucket : 0.08 m³ (0.1 yd³) SAE heaped / Dozer up : 300mm(12") rubber track

						Load rac	lius					At max. reach			
Load point height m(ft)		2.0 m	2.0 m(7 ft)				(8 ft)	3.0 m(10 ft)		3.5 m(11 ft)		4.0 m	(13 ft)	Cap	Reach
														n (f	
3.5 m	kg					*490	480					420	360	3.5	
11 ft	lb					*1080	1060					930	790	(11	
3.0 m	kg							420	360			340	290	4.0	
10 ft	lb							930	790			750	640	(13	
2.5 m	kg							420	360			290	250	4.:	
8 ft	lb							930	790			640	550	(14	
2.0 m	kg					550	470	420	360	320	280	270	230	4.	
7 ft	lb					1210	1040	930	790	710	620	600	510	(14	
1.5 m	kg			720	610	530	450	410	350	320	270	250	220	4.	
5 ft	lb			1590	1340	1170	990	900	770	710	600	550	490	(15	
1.0 m	kg	1010	820	690	580	510	430	390	340	310	270	250	210	4.	
3 ft	lb	2230	1810	1520	1280	1120	950	860	750	680	600	550	460	(1	
0.5 m	kg	960	770	660	550	490	420	380	330	310	260	250	210	4.	
2 ft	lb	2120	1700	1460	1210	1080	930	840	730	680	570	550	460	(14	
Ground	kg	940	760	640	530	480	400	380	320	300	260	260	220	4.	
Line	lb	2070	1680	1410	1170	1060	880	840	710	660	570	570	490	(14	
-0.5 m	kg	930	750	640	530	470	400	370	310			290	240	4.	
-2 ft	lb	2050	1650	1410	1170	1040	880	820	680			640	530	(13	
-1.0 m	kg	930	750	630	530	470	400	370	320			330	280	3.	
-3 ft	lb	2050	1650	1390	1170	1040	880	820	710			730	620	(12	
-1.5 m	kg	950	760	640	530	480	400					430	360	3.	
-5 ft	lb	2050	1680	1410	1170	1060	880					950	790	(10	
-2.0 m	kg	970	790												
-7 ft	lb	2140	1740												
-2.5 m	kg											*450	*450	2.	
-8 ft	lb											*990	*990	(9	

			At max. reach													
Load point		2.0 m(7 ft)		2.5 m(8 ft)		3.0 m(10 ft)		3.5 m(11 ft)		4.0 m(13 ft)		Capacity		Reach		
height m(ft)			r r									r r		r r		m (ft)
3.5 m	kg					*490	*490					*500	380	3.57		
11 ft	lb					*1080	*1080					*1100	840	(11.7		
3.0 m	kg							*430	380			*510	310	4.00		
10 ft	lb							*950	840			*1120	680	(13.1		
2.5 m	kg							*540	380			*520	270	4.30		
8 ft	lb							*1190	840			*1150	600	(14.1		
2.0 m	kg					*580	490	*580	380	*450	300	*540	240	4.48		
7 ft	lb					*1280	1080	*1280	480	*990	660	*1190	530	(14.7		
1.5 m	kg			*800	650	*700	480	*640	370	*610	290	*550	230	4.58		
5 ft	lb			*1760	1430	*1540	1060	*1410	820	*1340	640	*1210	510	(15.0		
1.0 m	kg	*1610	870	*1070	610	*840	460	*720	360	*650	280	*570	230	4.60		
3 ft	lb	*3550	1920	*2360	1340	*1850	1010	*1590	790	*1430	620	*1260	510	(15.1		
0.5 m	kg	*1910	830	*1290	590	*970	440	*790	350	*690	280	*590	230	4.55		
2 ft	lb	*4210	1830	*2840	1300	*2140	970	*1740	770	*1520	620	*1300	510	(14.9		
Ground	kg	*1890	810	*1410	570	*1050	430	*840	340	*660	270	*610	240	4.41		
Line	lb	*4170	1790	*3110	1260	*2310	950	*1850	750	*1460	600	*1340	530	(14.5		
-0.5 m	kg	*2100	800	*1440	560	*1080	420	*850	340			*620	260	4.18		
-2 ft	lb	*4630	1760	*3170	1230	*2380	930	*1870	750			*1370	570	(13.7		
-1.0 m	kg	*1940	810	*1370	560	*1030	420	*780	340			*630	300	3.83		
-3 ft	lb	*4280	1790	*3020	1230	*2270	930	*1720	750			*1390	660	(12.6		
-1.5 m	kg	*1640	820	*1170	570	*860	430					*610	390	3.29		
-5 ft	lb	*3620	1810	*2580	1260	*1900	950					*1340	860	(10.8		
-2.0 m	kg	*1090	840													
-7 ft	lb	*2400	1850													
-2.5 m	kg											*450	450	2.91		
-8 ft	lb											*990	990	(9.5)		

- Lifting capacity is based on SAE J1097, ISO 10567.
 Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The load point is a hook located on the back of the bucket.
- 4. (*) indicates the load limited by hydraulic capacity.

13 10/11/12