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
·Lockable door
·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 equipment lowering
·Travel alarm
·Quick coupler
·Tool kit
·Operator suit
·Long Arm (1.35m, 4'5")
·Heater & Defroster
·Lever pattern change valve

* 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.

PLEASE CONTACT

HYUNDAI
CONSTRUCTION EQUIPMENT

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MOVING YOU FURTHER

Robex 27z-9

*Photo may include optional equipment.

HYUNDAI
CONSTRUCTION EQUIPMENT

Pride at Work

Hyundai Heavy Industries strives to build state-of-the art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality. Take pride in your work with Hyundai!

*Photo may include optional equipment.

Robex 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, 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.

Preference

The R27Z-9 offers an operator an optimal work environment with a cabin designed for comfort and sophistication. Operating R27Z-9 is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.

*Photo may include optional equipment.

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.

Operator Comfort

The left and right control levers are ergonomically located for convenient access.
A safety lock system is designed to prevent exiting the cabin while hydraulic controls are live. When the safety lever and left side console are positioned upright, hydraulic functions are disengaged.

A tiltable left-side console make the operator easier to enter and exit the cab.

Performance & Precision

New technologies designed to improve performance and precision, make the R27Z-9 smooth, fast and easy to control.

*Photo may include optional equipment.

Boom Swing

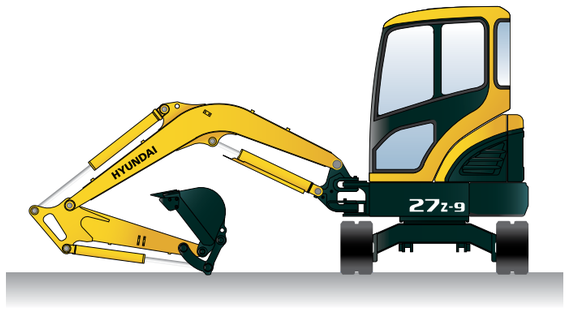
The R27Z-9's boom swing function is designed for efficient work in congested residential and urban areas. The boom can be offset left or right within an operating range.

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.

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.



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

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.

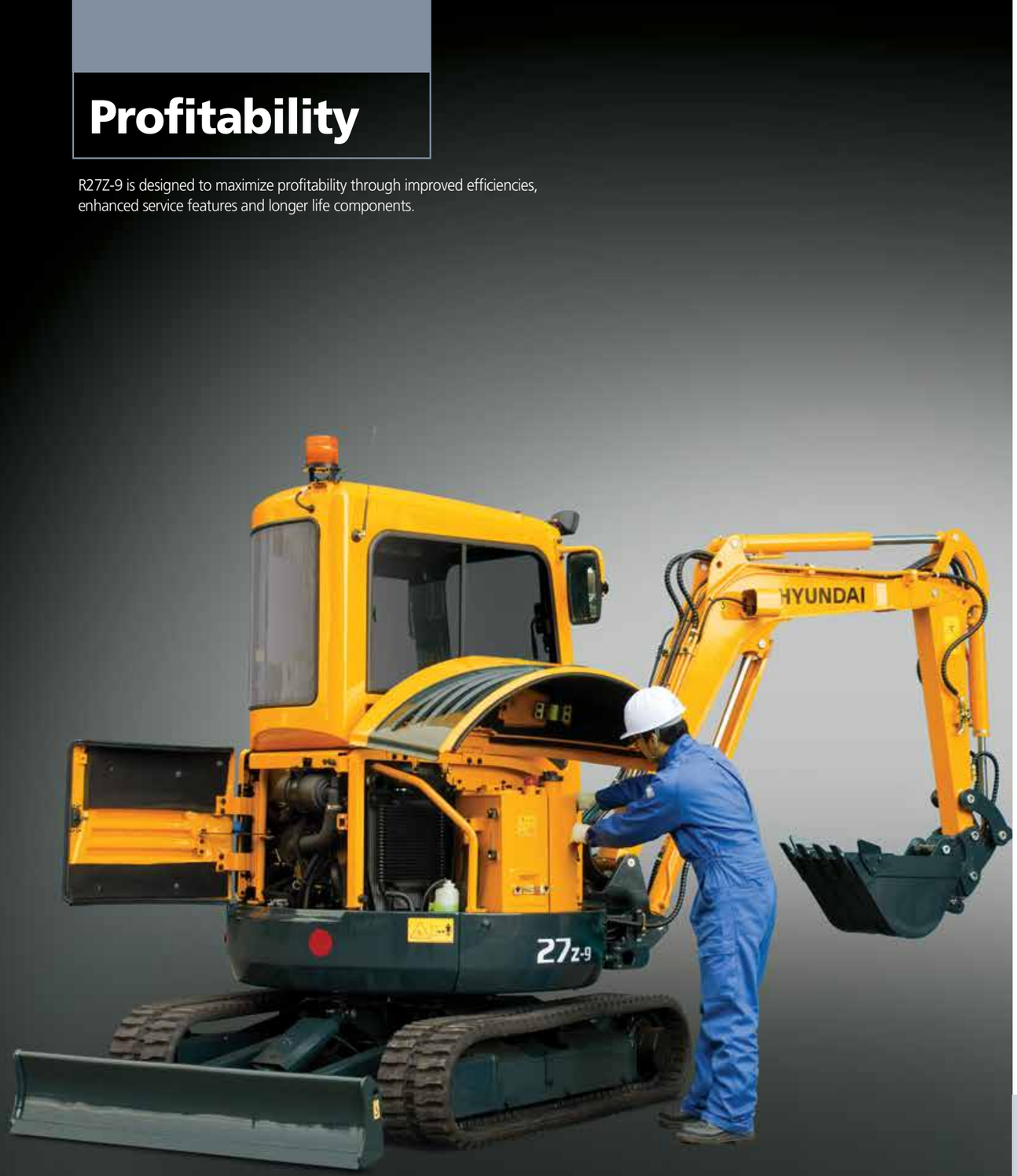
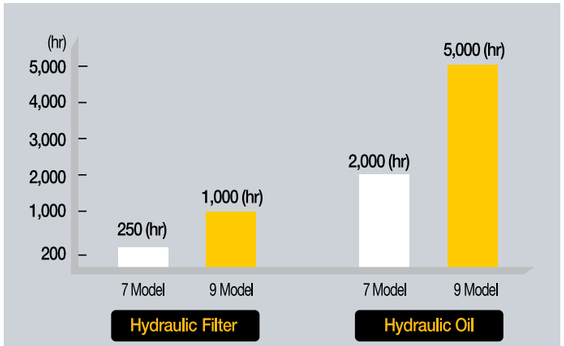


*Photo may include optional equipment.

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

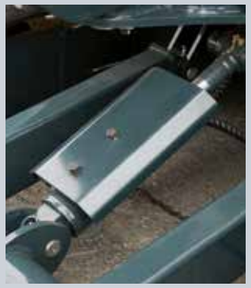
9 series excavators were designed with bushings designed for extended lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), extended-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated preheating systems which extend 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
Type		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 in^3)
Batteries		12V - 80AH
Starting motor		12V - 1.7kW
Alternator		12V - 50A

HYDRAULIC SYSTEM

Main pumps	
Type	Variable displacement piston pumps
Rated flow	2 x 27.6 + 19.6 L/min
Sub-pump for pilot circuit	Gear pump
Hydraulic motors	
Travel	Two speed axial piston motor with counter balance valve and parking brake
Swing	Axial piston motor with automatic brake
Relief valve setting	
Implement circuits	220 Kgf/cm^2 (3,130 psi)
Travel circuit	220 Kgf/cm^2 (3,130 psi)
Swing circuit	175 Kgf/cm^2 (2,490 psi)
Pilot circuit	30 Kgf/cm^2 (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	85 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	38	10.0	8.4
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

Type	
Pilot control	Two joysticks with one safety lever (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)

Bucket	2,050 kgf	
	20.1 kN	
	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 m^3 (0.1 yd^3) 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)
	Canopy	2,730 Kg (6,020lb)
Ground Pressure	Cabin	0.29 kg / cm^2 (4.12psi)
	Canopy	0.27 kg / cm^2 (3.84psi)

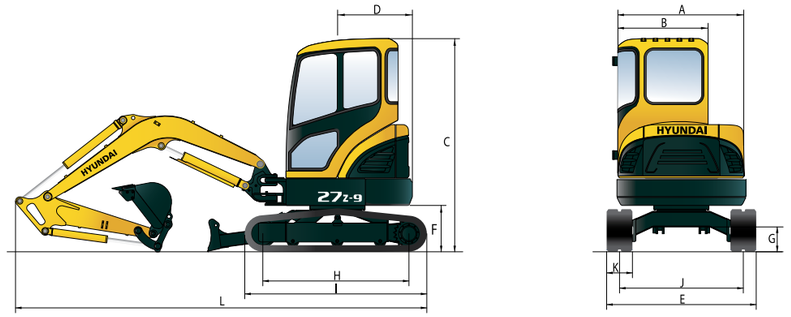
UNDERCARRIAGE

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

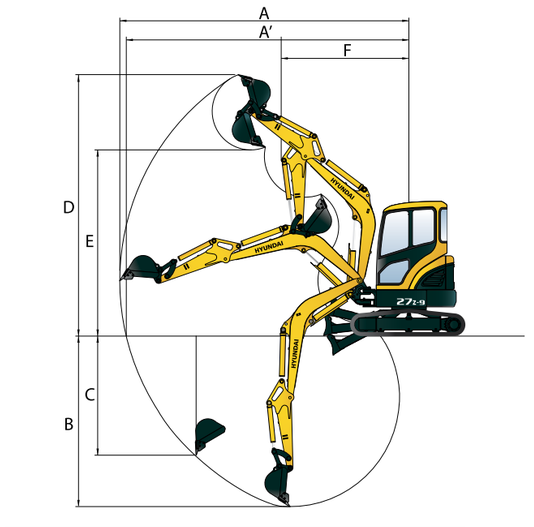


mm (ft·in)

A	Overall width of upper structure	1,485 (4' 10")	**G**	Ground clearance	290 (0' 11")
B	Overall width of cab	1,050 (3' 5")	**H**	Tumbler distance	1,550 (5' 1")
C	Overall height of cab	2,500 (8' 2")	**I**	Track length	1,970 (6' 6")
D	Tail swing radius	775 (2' 7")	**J**	Track gauge	1,250 (4' 1")
E	Overall width	1,550 (5' 1")	**K**	Track shoe width	300 (0' 12")
F	Clearance under counterweight	540 (1' 9")	**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")

Lifting capacity

LIFTING CAPACITIES R27Z-9

Rating over-front Rating over-side or 360 degree

Boom : 2.03 m (6′ 8″) / Arm : 1.12 m (3′ 8″) / Bucket : 0.08 m³ (0.1 yd³) SAE heaped / Dozer up : 300mm(12″) rubber track

Load point height m(ft)		Load radius								At max. reach		
		2.0 m(7 ft)		2.5 m(8 ft)		3.0 m(10 ft)		3.5 m(11 ft)		Capacity		Reach
												m (ft)
3.5 m	kg									*550	460	3.07
11 ft	lb									*1210	1010	(10.1)
3.0 m	kg					610	450			460	340	3.63
10 ft	lb					1340	990			1010	750	(11.9)
2.5 m	kg					610	450	460	340	380	290	3.99
8 ft	lb					1340	990	1010	750	840	640	(13.1)
2.0 m	kg			*790	610	600	450	460	340	350	250	4.22
7 ft	lb			*1740	1340	1320	990	1010	750	770	550	(13.8)
1.5 m	kg			800	590	590	440	460	340	320	240	4.35
5 ft	lb			1760	1300	1300	970	1010	750	710	530	(14.3)
1.0 m	kg			770	560	580	420	450	330	320	230	4.39
3 ft	lb			1700	1230	1280	930	990	730	710	510	(14.4)
0.5 m	kg			750	540	570	410	440	320	320	230	4.35
2 ft	lb			1650	1190	1260	900	970	710	710	510	(14.3)
Ground	kg	1080	750	740	530	560	400	440	320	330	240	4.22
Line	lb	2380	1650	1630	1170	1230	880	970	710	730	530	(13.8)
-0.5 m	kg	1080	750	740	530	550	400	440	320	360	260	4.00
-2 ft	lb	2380	1650	1630	1170	1210	880	970	710	790	570	(13.1)
-1.0 m	kg	1090	760	740	530	560	400			420	300	3.64
-3 ft	lb	2400	1680	1630	1170	1230	880			930	660	(11.9)
-1.5 m	kg	1110	780	760	550					550	400	3.09
-5 ft	lb	2450	1720	1680	1210					1210	880	(10.1)
-2.5 m	kg									*450	420	3.06
-8 ft	lb									*990	930	(10.0)

Boom : 2.03 m (6′ 8″) / Arm : 1.12 m (3′ 8″) / Bucket : 0.08 m³ (0.1 yd³) SAE heaped / Dozer down : 300mm(12″) rubber track

Load point height m(ft)		Load radius								At max. reach		
		2.0 m(7 ft)		2.5 m(8 ft)		3.0 m(10 ft)		3.5 m(11 ft)		Capacity		Reach
												m (ft)
3.5 m	kg									*550	490	3.07
11 ft	lb									*1210	1080	(10.1)
3.0 m	kg					*640	480			*550	360	3.63
10 ft	lb					*1410	1060			*1210	790	(11.9)
2.5 m	kg					*640	490	*630	370	*570	310	3.99
8 ft	lb					*1410	1080	*1390	820	*1260	680	(13.1)
2.0 m	kg			*790	650	*720	480	*680	370	*580	270	4.22
7 ft	lb			*1740	1430	*1590	1060	*1500	820	*1280	600	(13.8)
1.5 m	kg			*1020	630	*830	470	*730	360	*600	260	4.35
5 ft	lb			*2250	1390	*1830	1040	*1610	790	*1320	570	(14.3)
1.0 m	kg			*1260	600	*960	450	*800	350	*610	250	4.39
3 ft	lb			*2780	1320	*2120	990	*1760	770	*1340	550	(14.4)
0.5 m	kg			*1410	580	*1050	440	*850	350	*630	250	4.35
2 ft	lb			*3110	1280	*2310	970	*1870	770	*1390	550	(14.3)
Ground	kg	*1720	810	*1460	570	*1090	430	*860	340	*650	260	4.22
Line	lb	*3790	1790	*3220	1260	*2400	950	*1900	750	*1430	570	(13.8)
-0.5 m	kg	*1990	810	*1420	570	*1070	430	*810	340	*660	280	4.00
-2 ft	lb	*4390	1790	*3130	1260	*2360	950	*1790	750	*1460	620	(13.1)
-1.0 m	kg	*1740	820	*1260	570	*930	440			*660	330	3.64
-3 ft	lb	*3840	1810	*2780	1260	*2050	970			*1460	730	(11.9)
-1.5 m	kg	*1290	840	*910	590					*620	430	3.09
-5 ft	lb	*2840	1850	*2010	1300					*1370	950	(10.1)
-2.5 m	kg									*450	*450	3.06
-7 ft	lb									*990	*990	(10.0)

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. 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 point height m(ft)		Load radius										At max. reach		
		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
														m (ft)
3.5 m	kg											*490	380	3.43
11 ft	lb											*1080	840	(11.3)
3.0 m	kg							*530	460			400	300	3.91
10 ft	lb							*1170	1010			880	660	(12.8)
2.5 m	kg							*550	460	470	350	350	250	4.24
8 ft	lb							*1210	1010	1040	770	770	550	(13.9)
2.0 m	kg							610	450	470	340	310	230	4.45
7 ft	lb							1340	990	1040	750	680	510	(14.6)
1.5 m	kg	*1190	850	810	590	590	440	460	340	360	260	300	210	4.57
5 ft	lb	*2620	1870	1790	1300	1300	970	1010	750	790	570	660	460	(15.0)
1.0 m	kg			780	560	580	420	450	330	360	260	290	210	4.61
3 ft	lb			1720	1230	1280	930	990	730	790	570	640	460	(15.1)
0.5 m	kg	1090	760	750	540	560	410	440	320	350	260	290	210	4.57
2 ft	lb	2400	1680	1650	1190	1230	900	970	710	770	570	640	460	(15.0)
Ground	kg	1070	750	740	530	550	400	430	310	350	250	300	220	4.45
Line	lb	2360	1650	1630	1170	1210	880	950	680	770	550	660	490	(14.6)
-0.5 m	kg	1070	740	730	520	550	400	430	310			320	230	4.24
-2 ft	lb	2360	1630	1610	1150	1210	880	950	680			710	510	(13.9)
-1.0 m	kg	1080	750	730	520	550	400					370	260	3.92
-3 ft	lb	2380	1650	1610	1150	1210	880					820	570	(12.9)
-1.5 m	kg	1090	760	740	530							450	330	3.44
-5 ft	lb	2400	1680	1630	1170							990	730	(11.3)
-2.5 m	kg	*860	780									*510	510	2.63
-8 ft	lb	*1900	1720									*1120	1120	(8.6)

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

Load point height m(ft)		Load radius										At max. reach		
		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
														m (ft)
3.5 m	kg											*490	400	3.43
11 ft	lb											*1080	880	(11.3)
3.0 m	kg							*530	490			*500	320	3.91
10 ft	lb							*1170	1080			*1100	710	(12.8)
2.5 m	kg							*550	490	*580	370	*520	270	4.24
8 ft	lb							*1210	1080	*1280	820	*1150	600	(13.9)
2.0 m	kg							*630	480	*610	370	*530	250	4.45
7 ft	lb							*1390	1060	*1340	820	*1170	550	(14.6)
1.5 m	kg	*1190	920	*890	630	*750	470	*680	360	*630	280	*550	230	4.57
5 ft	lb	*2620	2030	*1960	1390	*1650	1040	*1500	790	*1390	620	*1210	510	(15.0)
1.0 m	kg			*1150	610	*890	450	*750	350	*670	280	*560	220	4.61
3 ft	lb			*2540	1340	*1960	990	*1650	770	*1480	620	*1230	490	(15.1)
0.5 m	kg	*1510	820	*1350	580	*1000	440	*820	340	*700	280	*580	230	4.57
2 ft	lb	*3330	1810	*2980	1280	*2200	970	*1810	750	*1540	620	*1280	510	(15.0)
Ground	kg	*1710	810	*1440	570	*1070	430	*850	340	*560	270	*600	230	4.45
Line	lb	*3770	1790	*3170	1260	*2360	950	*1870	750	*1230	600	*1320	510	(14.6)
-0.5 m	kg	*2080	800	*1440	560	*1080	430	*850	340			*620	250	4.24
-2 ft	lb	*4590	1760	*3170	1230	*2380	950	*1870	750			*1370	550	(13.9)
-1.0 m	kg	*1890	810	*1340	560	*1010	430					*630	290	3.92
-3 ft	lb	*4170	1790	*2950	1230	*2230	950					*1390	640	(12.9)
-1.5 m	kg	*1540	820	*1100	570							*620	350	3.44
-5 ft	lb	*3400	1810	*2430	1260							*1370	770	(11.3)
-2.5 m	kg	*860	850									*510	*510	2.63
-7 ft	lb	*1900	1870									*1120	*1120	(8.6)

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. 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.

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