

ROBEX 110-7

Standard Equipment ISO standard cabin · All-weather steel cab with all-around visibility Safety glass windows Rise-up type windshield wiper · Sliding fold-in front window Sliding side window Lockable door Hot & cool box · Accessory box & Ashtray Computer aided power optimization (New CAPO) system · 3-power mode One touch deceleration system Auto warm up system · Auto overheat prevention system Self diagnostic system Starting aid (air grid heater), cold weather · LCD display Clock & Error code Engine coolant temperature gauge Hyd. oil temperature gauge Warning Fuel level CPU Engine oil pressure Engine coolant temperature Hyd. oil temperature Low battery Air cleaner clogging Indicator Power max Preheat & Engine warming-up One touch decel Door and cab locks, one key AM/FM radio and cassette · Radio remote switch Two outside rearview mirrors Fully adjustable suspension seat with seat belt Slidable joystick, pilot-operated Console box tilting system(LH.) Three front working lights Electric horn Batteries (2 x 12V x 80AH) Battery master switch Removable clean out screen for oil cooler Automatic swing brake Removable reservoir tank Water separator & fuel pre-filter, fuel line Boom holding system Arm holding system Counterweight (1,450kg, 3,200lb) Mono boom (4.3m, 14' 1") Arm (2.26m, 7' 5") Track shoes (500m, 20") Track rail guard

υþ	tional Equipment
	00 kcal/hr, 20,000 BTU/hr)
	(7,500 Kcal/hr, 30,000 BTU/hr)
Sun visor for cabin	inside
	ℓ /min, 9.3 US gpm)
Beacon lamp	
Safety lock valve fo	
with overload war	
Safety lock valve fo	
Single acting pipin	
	ng kit (clamshell, etc)
	equipment lowering
	t (24V DC to 12V DC converter)
Quick coupler Travel alarm	
	ma
Various optional ar	
· Short arm (1.96 n	
· Long arm (2.81 m	, খ ১
Various ontional hi	ickets (SAE heaped)
Standard bucket	
Narrow bucket	
Narrow bucket	
Narrow bucket	
· Light bucket (0	
Eight Duonot (t	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Cabin roof-cover tr	ansparent
Cabin lights	
Track shoes	
· Triple grousers s	
· Triple grousers s	hoe (700 mm, 28")
Lower frame under	OONOR
Lower frame under Tool kit	COACI
Operator suit	
Special cooling	
Air vent type side	door
- All velictype side	5 4001
Engine emergency	control cable
Seat	
· Adjustable air su	spension seat
	pension seat with heater

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine shown may vary according to International standards. All US measurement rounded off to nearest pounds or inches.

Starting aid (air grid heater), cold weather







110-7 / 110_{D-7}





Operator's Comfort is Foremost. Wide Cab Exceeds Industry Standards.





• Even more visibility than before, for safer, more efficient operating.



- Ventilation has been improved by the addition of the larger fresh air intake system, and by providing additional air flow throughout the cab.
- Sliding front and side windows provide improved ventilation.
- · A large sunroof offers upward visibility and additional ventilation.



Comfortable operator environment

- The control levers and seat can be adjusted to provide maximum operator comfort.
- The seat is fully adjustable for optimum operating position, reducing operator
- · Console boxes slide forward and backward for improved accessibility.
- The proportional pressure controls reduce unnecessary exertion while ensuring precise operation.
- · Large windows allow excellent visibility in all directions.



Low noise design

- The Robex 7 series was designed with low operation noise in mind.
- Hyundai engineering helps to keep interior and exterior noise levels to a
- The cab's noise levels have been additionally reduced by improving the door seals for the cab and engine compartments.
- An insulated diesel engine compartment with sound-damping material also reduces noise.





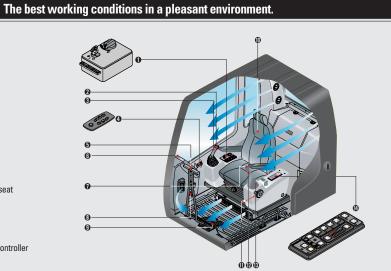




Operating Environment

Centralized control panel

- A Horn button
- Option button
- A Remote Radio control
- **6** Travel lever
- **6** Cluster
- One touch decel button
- (3) Hour meter
- (1) Travel pedal
- Fully adjustable suspension seat
- Safety lever
- Power boost button
- (B) Joystick control lever
- Air Conditioner and Heater controller



Wide Cab with Excellent

The cab is roomy and ergonomically designed with low noise level and good visibility.

A full view front window and large rear and side windows provide excellent visibility in all directions.

Smooth Travel Pedal and Foot Rests

Visibility



Highly Sensitive Joystick and Easy Entrance

New joystick grips for precise control have been equipped with double switches.

(Left: Power boost / One touch deceleration, Right: Horn/Optional)

Improved Intelligent Display

Instrument Panel is installed in front of RH console box.

It is easy to check all critical systems with easy-to-read indicators.





Wide, Comfortable Operating Space

All the controls are designed and positioned according to the latest ergonomic research.

Reinforced pillars have also been added for greater cab rigidity.

Easy-to-Reach Control Panels

Switches and other essential controls are located near the operator.

This helps keep operator movement to a minimum, enhancing control with less operator fatigue.





Rear Emergency Exit Window Rear Exit Window is designed with

easy exit for operator's safety.



Rise-up Wiper and Cabin Lights

Raise-up wiper has enhanced for the better front view. Cabin Lights enhances safety by brightly lighting the surroundings during night work(optional)



Remote Radio Control and Deluxe Cassette

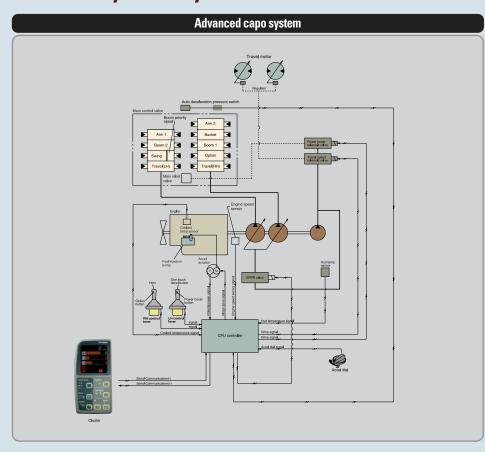


Storage box and Cup Holder

An additional storage box and cup holder are located behind operator's seat, and it keeps food and beverages cool or hot.

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Advanced hydraulic system



Advanced CAPO System

The Advanced CAPO(Computer Aided Power Optimization) system maintains engine and mutual pump power at optimum levels. Mode selections are designed for various work loads and maintaining high performance while reducing fuel consumption.

Features such as power boost are included in the system.

The system monitors engine speed, coolant temperature, and hydraulic oil temperature. Contained within the system are self diagnostic capabilities, which are displayed by error codes on the cluster.

Self Diagnosis System

The CPU controller diagnoses problems in the CAPO system caused by electric and hydraulic malfunctions and displays them on the LCD monitor of the cluster by error codes. This controller has the capacity to identify 26 distinct types of errors. As the information from this device, such as engine rpm, main pump delivery pressure, battery voltage, hyd. temperature, and the state of all types of electric switches, provides the operator with a much more exact state of machine operating condition.

This makes the machine easier to troubleshoot when anything does go wrong.

Arm Flow Regeneration System

Arm flow regeneration valve provides smooth armin operation without cavitations.

Boom & Arm Holding System

The Holding valves in the main control valve prevents the boom & arm from dropping over an extended period in neutral position.

One Touch Deceleration



When the one touch deceleration button on top of LH joystick is pushed once, the engine rpm will be immediately down to low idle rpm.

Engine speed will be recovered to its preselected rpm in case the button is pushed once more.

Automatic Engine Overheat Prevention

If the engine coolant temperature gets too high, the CPU controller lowers the engine speed and cools the engine.

Anti Restart System

The new system protects the starter from restarting during engine operation, even if the operator accidentally turns the start key again.

New mode control system



Power boost control System

When the power boost system is activated, digging power increases about 10%. It is especially useful when extra power is temporarily needed, for instance, when digging hard earth and rock, or if the bucket teeth are stopped by a stubborn tree root.

Automatic Warming-up System

After the engine is started, if the engine coolant temperature is low, the CPU controller increases the engine speed and automatically to warm up the engine more effectively.

Pump Flow Control System

In neutral position: Pump flow is reduced to a minimum to eliminate power loss.

In operation: Maximum pump flow is delivered to the actuator to increase the speed. With movement of the control lever, pump flow is automatically adjusted and the actuator speed can be proportionally controlled.

Hydraulic Damper in Travel Pedal

Improved travel controllability & feeling by shock reducing when starting and stopping.

Strong and Stable Lower Frame

Reinforced box-section frame is all welded, low-stress, high-strength steel.

It guarantees safety and resistance against external impact when driving on rough ground and working on wet sites through high tensile strength steel panels, with highly durable upper and lower rollers and track guards.

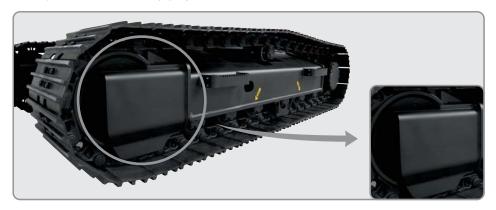
Long undercarriage incorporates heavy duty excavator style components.

X-leg type center frame is integrally welded for maximum strength and durability.



Track Rail Guide & Adjusters

Durable track rail guides keep track links in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs.



Powerful and Preciser Swing Control

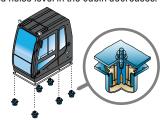
Improved shock absorbing characteristics make stopping a precise and smooth action



Minimization of Shock and Vibration through Cab Mounting System

The application of Viscous Mounting to the cabin support provides the operator with a much improved ride.

The operator work efficiency will increase as the shock and noise level in the cabin decreases.



Increased higher performance

Mitsubishi S4K-T ENGINE

The four cylinders turbo-charged Mitsubishi S4K-T engine is built for power, reliability and economy.

This engine meets EPA tier II and EU stage II emission regulation.



Reliability You Can Depend On

Mitsubishi S4K-T engine is an ideal solution for the toughest work environment.

The engine is built from laser hardened cast iron cylinder block, eight balance, one-piece, forged crankshaft and heat resistant aluminum alloy pistons

This combination provides maximum strength, rigidity and low fuel and oil consumption.

The S4K-T engine is capable of reaching emission standards without electronic engine controls. You get a proven power plant that meets ecological concerns, without paying a premium for technology you don't need.

Reinforced Bucket and Bucket Linkage

Sealed and adjustable bucket linkage provides less wear of pins and bushes

as well as silent operation. The design includes bucket link durability and anti wear characteristics. Additional reinforcement plates on cutting edge section. Reinforced bucket is made with thicker steel and additional lateral plate.



Robex 110-7



Reliability & Serviceability



Easy to maintain engine components

The cooling and preheating system are provided for optimum and immediate operation, guaranteeing longer life for the engine and hydraulic components.

Servicing of the engine and hydraulics is considerably simplified due to total accessibility.



Centralized Electric Control Box and Easy Change Air Cleaner Assembly

Electric control box and Air cleaner are centralized in one or the same compartment for easy service.



Side Cover with Left & Right Swing Open Type

Easy access to vital components gives unrestricted view of component allows easy maintenance and repair.



Large tool box for extra storage



Highly efficient Hydraulic Pump

Pump output and Hydraulic tank capacity have been increased.

A pilot pump has been installed resulting in improved control sensitivity.



Engine

Model			Mitsubishi S4K-T	
Туре			Water cooled, 4 cycle Diesel. 4 Cylinders in line, direct injection turbocharged and low emission	
J1995(gross)			94HP(70kW) at 1,950rpm	
horse	Rated SAE	J1349(net)	84HP (63kW) at 1,950rpm	
power		6271/1(gross)	95PS(70kW) at 1,950rpm	
power DIN		6271/1(net)	85PS (63kW) at 1,950rpm	
Max. torque			37.9kgf.m(274 lbf.ft) at 1,400rpm	
Bore X stroke			102 x 130mm (4.0'' x 5.1'')	
Piston displacement		nt	4,249cc (259 cu in)	
Batteries			2 x 12V x 80AH	
Starter motor			24V-5.0kW	
Alternator			24V- 50 Amp	



Mydraulic system

Main pump						
Туре		Two variable displacement piston pumps				
Max. flow		2 x 112 £ /min (29.6US gpm / 24.6UK gpm)				
Sub-pump for pilot circ	uit	Gear pump				
Cross-sensing and fuel sa	ving pump system					
	Hydrauli	c motors				
Travel		Two speed axial piston motor with brake valve and parking brake				
Swing		Axial piston motor with automatic brake				
Relief valve setting						
Implement circuits		330 kgf/cm²(4,690psi)				
Travel		330 kgf/cm² (4,690 psi)				
Power boost (boom, ar	m, bucket)	360 kgf/cm²(5,120psi)				
Swing circuit		240 kgf/cm²(3,410psi)				
Pilot circuit		35 kgf/cm²(498psi)				
Service valve		Installed				
	Hydraulic	cylinders				
	Boom: 2 - 95 x 1015mm (3.7" x 40.0")					
No. of cylinder-	Arm: 1 - 110 x 1070mm (4.3" x 42.1")					
bore x stroke	Bucket: 1 - 95 x 855mm (3.7" x 33.7")					
	Blade	e: 2-100 x 240mm (3.9" x 9.4")				



Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	11,000 kgf (24,250 lbf)
Max. travel speed(high) / (low)	5.5 km/hr (3.4mph) / 3.4 km/hr (2.1mph)
Gradeability	35° (70%)
Parking brake	Multi wet disc



L Control

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket(ISO)
Traveling and steering	Two levers and pedals
Engine throttle	Electric, Dial type
External lights	Two lights mounted on the boom, one under the battery box



Swing system

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	13.0 rpm



Coolant & Lubricant capacity

(Refilling)	liter	US gal	UK gal
Fuel tank	250	66.0	55.0
Engine coolant	24	6.3	5.3
Engine oil	17.5	4.6	3.8
Swing device	2.5	0.7	0.5
Final drive(each)	2.5	0.7	0.5
Hydraulic system(including tank)	180	47.6	39.6
Hydraulic tank	100	26.4	22.0



Undercarriage

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing spring and sprockets, and track chain with double or triple grouser

Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	41
No. of carrier roller on each side	1
No. of track roller on each side	6
No. of rail guard on each side	1



Operating weight (approximate)

Operating weight, including 4,300mm (14' 1") boom, 2,260m (7' 5") arm, SAE heaped 0.45m3 (0.59yd3) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Major component weight

Upperstructure	3,300kg (7,280lb)
Counterweight	1,450kg (3,200lb)
Boom (with Arm cylinder)	950kg (2,090lb)

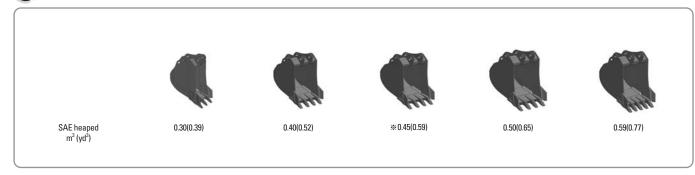
Operating weight

	Shoes		ating weight	Ground pressure	
Type	Width mm(in)		kg(lb)	kgf/cm²(psi)	
	* 500(20")	R110-7	11,200(24,690)	0.39(5.55)	
	× 300(20)	R110D-7	11,900 (26,230)	0.42(5.97)	
Triple	600/24"\	R110-7	11,500(25,350)	0.34(4.84)	
grouser	600(24")	R110D-7	12,200(26,900)	0.36(5.12)	
	700/00//\	R110-7	11,800(26,010)	0.30(4.27)	
	700(28")	R110D-7	12,500(27,560)	0.31(4.41)	

[※] Standard equipment



Buckets



Capa	acity	Wi	dth				Recommendation mm(ft.in)	
m³ (yd³)	mm	(in)	Weight	Mono Boom		※4,300 (14′ 1″)	
SAE heaped	CECE heaped	Without side cutters	With side cutters	kg(lb)	(lb) Arm 1,960 (6' 5		* 2,260 (7' 5")	2,810 (9′ 3″)
0.30 (0.39)	0.27 (0.35)	610 (24.0)	720 (28.3)	360 (790)	•		•	•
0.40 (0.52)	0.36 (0.47)	760 (29.9)	870 (34.3)	410 (900)	•		•	•
*0.45 (0.59)	0.40 (0.52)	830 (32.7)	940 (37.0)	430 (950)	•		•	•
0.50 (0.65)	0.45 (0.59)	900 (35.4)	1,010 (39.8)	450 (990)	•		•	A
0.59 (0.77)	0.52 (0.68)	1,020 (40.2)	1,130 (44.5)	490 (1,080)			A	-

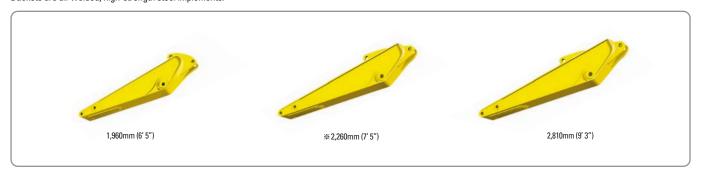
※ : Standard backhoe bucket

- Applicable for materials with density of 2,000 kg / m³ (3,370 lb / yd³) or less
- Applicable for materials with density of 1,600 kg / m³ (2,700 lb / yd³) or less
- ▲ Applicable for materials with density of 1,100 kg / m² (1,850 lb / yd²) or less



Backhoe attachment

Boom and arms are of all-welded, low-stress, full-box section design. 4,300mm(14' 4") mono boom and 1,960m(6' 5"), 2,260m (7' 5"), 2,810mm (9' 3") arm are available. Buckets are all-welded, high-strength steel implements.



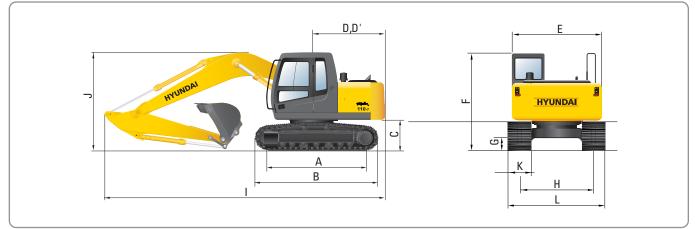


Digging force

Arm	Length	mm(ft-in)	1,960mm (6'5")	※ 2,260mm (7' 5")	2,810mm (9'3")	Remark
	Weight	kg(lb)	320(710)	340(750)	400(880)	neilidik
		kN	78.5[85.6]	78.5[85.6]	78.5[85.6]	
Bucket	SAE	kgf	8,000[8,730]	8,000[8,730]	8,000[8,730]	
		lbf	17,640[19,240]	17,640[19,240]	17,640[19,240]	
digging force		kN	90.2[98.4]	90.2[98.4]	90.2[98.4]	
10106	ISO	kgf	9,200[10,040]	9,200[10,040]	9,200[10,040]	
		lbf	20,280[22,120]	20,280[22,120]	20,280[22,120]	[]:
		kN	60.2[65.7]	55.7[60.8]	48.1[52.4]	Power Boost
Arm	SAE	kgf	6,140[6,700]	5,680[6,200]	4,900[5,350]	
crowd —		lbf	13,540[14,770]	12,520[13,660]	10,800[11,780]	
		kN	62.9[68.6]	58.1[63.3]	49.7[54.2]	
	ISO	kgf 6,410[6,990]	5,920[6,460]	5,070[5,530]		
		lbf	14,130[15,410]	13,050[14,240]	11,180[12,200]	

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Dimensions R110-7



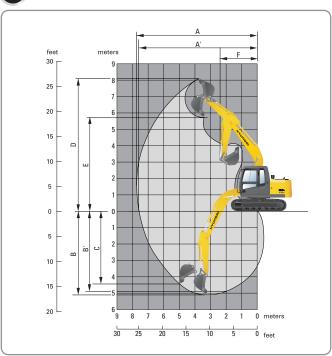
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mm	m	•	ш

	Description	R110-7
Α	Tumbler distance	2,610 (8'7")
В	Overall length of crawler	3,340 (10′11″)
С	Ground clearance of counterweight	900 (2′11″)
D	Tail swing radius	2,130 (7′0″)
D'	Rear-end length	2,110 (6′11″)
Ε	Overall width of upperstructure	2,475 (8'1")
F	Overall height of cabin	2,800 (9'2")
G	Min. ground clearance	440 (1'5")
Н	Track gauge	1,990 (6'6")

	Boom length							
	Arm length	1,960 (6' 5'')	1,960 (6' 5'')					
1	Overall length	7,240 (23' 9'')	7,270 (23' 10'')	7,230 (23' 9'')				
J	Overall height of boom	2,550 (8' 4'')	2,720 (8' 11'')	3,060 (10' 0'')				
K	Track shoe width	500 (20")	600 (24")	700 (28")				
L	Overall width	2,490 (8' 2'')	2,590 (8' 6'')	2,690 (8' 10'')				

※ Standard equipment

Working ranges R110-7

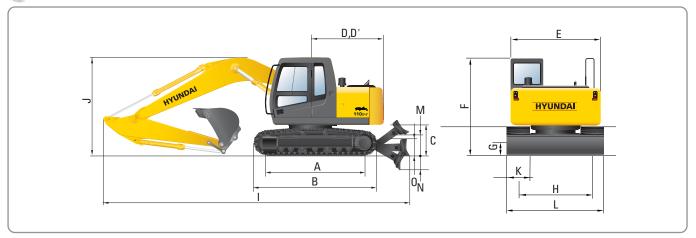


mm	(ft

	Description	R110-7						
	Boom length	※4,3	300 (14' 1'') mono b	oom				
	Arm length	Arm length 1,960		2,810 (9' 3")				
Α	Max. digging reach	7,460 (24' 6'')	7,740 (25'5")	8,270 (27' 2'')				
A'	Max. digging reach on ground	7,320 (24' 0'')	7,610 (25' 0")	8,140 (26' 8'')				
В	Max. digging depth	4,770 (15' 8'')	5,090 (16' 8'')	5,620 (18' 5'')				
B'	Max. digging depth (8' level)	4,510 (14' 10'')	4,870 (16' 0")	5,410 (17' 9'')				
С	Max. vertical digging depth	4,070 (13' 4'')	4,430 (14' 6'')	4,940 (16' 2'')				
D	Max. digging height	7,900 (25' 11'')	8,070 (26' 6'')	8,460 (27' 9'')				
E	Max. dumping height	5,540 (18' 2'')	5,710 (18' 9'')	6,100 (20' 0'')				
F	Min. swing radius	2,340 (7' 8'')	2,380 (7' 10'')	2,510 (8' 3'')				

※ Standard equipment

Dimensions R110D-7

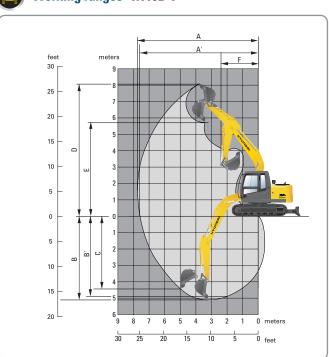


		mm (ft · in)
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D′	Rear-end length	2,110 (6′11″)
Ε	Overall width of upperstructure	2,475 (8′1″)
F	Overall height of cabin	2,800 (9'2")
G	Min. ground clearance	440 (1'5")
Н	Track gauge	1,990 (6'6")
M	Ground Clearance of blade up	500 (1' 8'')
N	Depth of blade down	520 (1' 8'')

0	Height of blade		550 (1' 10'')					
	Width of blade	2,500 (8' 2'')						
	Boom length	*4,3	00 (14' 1'') Mono	boom				
	Arm length	1,960 (6' 5'')	※ 2,260 (7' 5'')	2,810 (9' 3")				
1	Overall length	7,620 (25' 0'')	7,650 (25' 1'')	7,610 (25' 0'')				
J	Overall height of boom	2,550 (8' 4'')	2,720 (8' 11'')	3,060 (10' 0'')				
K	Track shoe width	rack shoe width 500 (20")		700 (28")				
L	Overall width	2,490 (8' 2'')	2,590 (8' 6'')	2,690 (8' 10'')				

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Working ranges R110D-7



				111111 (11. * 111)
	Description		R110D-7	
	Boom length	※ 4,3	00 (14' 1'') mono b	oom
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E	Max. dumping height	5,540 (18' 2'')	5,710 (18' 9'')	6,100 (20' 0'')
F	Min. swing radius	2,340 (7' 8'')	2,380 (7' 10'')	2,510 (8' 3'')

※ Standard equipment

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Lifting capacities R110-7

Rating over-front Rating over-side or 360 degree

• Boom: 4.3 m (14′ 1″) • Arm: 2.26 m (7′ 5″) • Bucket: 0.45 m³ (0.59yd³) SAE heaped • Shoe: 500mm(20″) triple grouser with 1,450kg(3,200 lb) CWT

				At max. reach								
Load Po		1.5m	(5.0ft)	3.0m (3.0m (10.0ft)		4.5m (15.0ft)		(20.0ft)	Capacity		Reach
height m(ft)		ŀ		Į.		Į.		Į.		ŀ		m (ft)
6.0m 20.0ft	kg Ib		1		1	*1,750 *3,860	*1,750 *3,860		1	*1,750 *3,860	1,560 3,440	5.99 (19.7)
4.5m 15.0ft	kg Ib					*1,790 *3,950	*1,790 *3,950	*1,530 *3,370	1,490 3,280	1,520 3,350	1,130 2,490	6.92 (22.7)
3.0m 10.0ft	kg lb		 	*2,820 *6,220	*2,820 *6,220	*2,270 *5,000	*2,270 *5,000	1,940 4,280	1,450 3,200	1,300 2,870	940 2,070	7.38 (24.2)
1.5m 5.0ft	kg lb		 	*4,700 *10,360	4,370 9,630	*2,970 *6,550	2,250 4,960	1,840 4,060	1,360 3,000	1,240 2,730	880 1,940	7.46 (24.5)
Ground Line	kg Ib			5,660 12,480	3,950 8,710	2,830 6,240	2,060 4,540	1,760 3,880	1,280 2,820	1,300 2,870	930 2,050	7.18 (23.6)
-1.5m - 5.0ft	kg Ib	*5,580 *12,300	*5,580 *12,300	5,550 12,240	3,850 8,490	2,740 6,040	1,980 4,370	1,720 3,790	1,240 2,730	1,560 3,440	1,130 2,490	6.49 (21.3)
-3.0m -10.0ft	kg Ib	*8,530 *18,810	*8,530 *18,810	*5,440 *11,990	3,930 8,660	2,770 6,110	2,010 4,430			*2,270 *5,000	1,730 3,810	5.17 (17.0)

• Boom: 4.3 m (14' 1") • Arm: 1.96 m (6' 5") • Bucket: 0.45 m³ (0.59yd³) SAE heaped • Shoe: 500mm(20") triple grouser with 1,450kg(3,200 lb) CWT

Load Point height m(ft)					At max. reach							
		1.5m	(5.0ft)	3.0m	(10.0ft)	4.5m (15.0ft)		6.0m (20.0ft)		Capacity		Reach
				r i		ļ				Į.		m (ft)
6.0m 20.0ft	kg Ib					*1,770 *3,900	*1,770 *3,900			*1,820 *4,010	1,710 3,770	5.62 (18.4)
4.5m 15.0ft	kg Ib					*1,950 *4,300	*1,950 *4,300			1,610 3,550	1,180 2,600	6.62 (21.7)
3.0m 10.0ft	kg Ib			*3,160 *6,970	*3,160 *6,970	*2,410 *5,310	2,390 5,270	1,870 4,120	1,380 3,040	1,350 2,980	970 2,140	7.10 (23.3)
1.5m 5.0ft	kg Ib			*4,940 *10,890	4,150 9,150	2,930 6,460	2,150 4,740	1,780 3,920	1,290 2,840	1,280 2,820	910 2,010	7.18 (23.6)
Ground Line	kg Ib			5,490 12,100	3,800 8,380	2,740 6,040	1,980 4,370	1,700 3,750	1,220 2,690	1,360 3,000	960 2,120	6.89 (22.6)
-1.5m - 5.0f t	kg Ib	*6,090 *13,430	*6,090 *13,430	5,440 11,990	3,750 8,270	2,670 5,890	1,910 4,210		1	1,670 3,680	1,200 2,650	6.15 (20.2)
-3.0m - 10.0ft	kg Ib	*9,180 *20.240	*9,180 * 20,240	*5,080 *11.200	3,880 8.550	2,750 6.060	1,980 4.370		 		 	

• Boom: 4.3 m (14' 1") • Arm: 2.81 m (9' 3") • Bucket: 0.45 m³ (0.59yd³) SAE heaped • Shoe: 500mm(20") triple grouser with 1,450kg(3,200 lb) CWT

Load Point height m(ft)					Load	radius				At max. reach			
		1.5m	(5.0ft)	3.0m (10.0ft)		4.5m	4.5m (15.0ft)		(20.0ft)	Сар	acity	Reach	
												m (ft)	
6.0m 20.0ft	kg Ib									*1,570 *3,640	1,290 2,840	6.66 (21.9)	
4.5m 15.0ft	kg Ib		 					*1,640 *3,620	1,570 3,460	1,330 2,930	980 2,160	7.50 (24.6)	
3.0m 10.0ft	kg Ib					*1,920 *4,230	*1,920 *4,230	*1,830 *4,030	1,500 3,310	1,160 2,560	830 1,830	7.92 (23.3)	
1.5m 5.0ft	kg Ib			*4,050 *8,930	*4,050 *8,930	*2,690 *5,930	2,340 5,160	1,890 4,710	1,410 3,110	1,100 2,430	780 1,720	7.99 (26.2)	
Ground Line	kg lb	*3,230 *7,120	*3,230 * 7,120	*5,580 * 12,300	4,110 9,060	2,900 6,390	2,130 4,700	1,790 3,950	1,310 2,890	1,150 2,540	820 1,810	7.74 (25.4)	
-1.5m - 5.0ft	kg Ib	*4,960 *10,930	*4,960 *10,930	5,620 12,390	3,920 8,640	2,770 6,110	2,010 4,430	1,730 3,810	1,250 2,760	1,330 2,930	960 2,120	7.11 (23.2)	
-3.0m -10.0ft	kg Ib	*7,230 *15,940	*7,230 *15,940	5,630 12,410	3,930 8,660	2,760 6,080	2,000 4,410			1,830 4,030	1,350 2,980	5.96 (19.6)	
-4.5m -15.0ft	kg Ib			*4,480 *9,880	4,100 9,040								

Lifting capacity is based on SAE J1097, ISO 10567.
Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The load point is a hook (standard equipment) located on the back of the bucket. 4. (*) indicates load limited by hydraulic capacity.

Lifting capacities R110D-7

Rating over-front Rating over-side or 360 degree

• Boom: 4.3 m (14′ 1″) • Arm: 2.26 m (7′ 5″) • Bucket: 0.45 m³ (0.59yd³) SAE heaped • Shoe: 500mm(20″) triple grouser with 1,450kg(3,200 lb) CWT

				At max. reach								
Load Po heigh		1.5m	(5.0ft)	3.0m	3.0m (10.0ft)		4.5m (15.0ft)		(20.0ft)	Capacity		Reach
m(ft)	ı											m (ft)
6.0m 20.0ft	kg Ib					*1,750 *3,860	*1,750 *3,860			*1,750 *3,860	*1,750 *3,860	5.99 (19.7)
4.5m 15.0f t	kg lb					*1,790 *3,950	*1,790 *3,950	*1,530 *3,370	*1,530 * 3,370	1,650 3,640	1,340 2,950	6.92 (22.7)
3.0m 10.0ft	kg Ib		 	*2,820 *6,220	*2,820 *6,220	*2,270 *5,000	*2,270 *5,000	*2,060 *4,540	1,710 3,770	1,420 3,130	1,140 2,510	7.38 (24.2)
1.5m 5.0ft	kg lb		 	*4,700 *10,360	*4,700 *10,360	*2,970 *6,550	2,650 5,840	2,000 4,410	1,620 3,570	1,360 3,000	1,080 2,380	7.46 (24.5)
Ground Line	kg Ib			*5,860 *12,920	4,750 10,470	3,060 6,750	2,460 5,420	1,910 4,210	1,540 3,400	1,430 3,150	1,140 2,510	7.18 (23.6)
-1.5m -5.0ft	kg lb	*5,580 *12,300	*5,580 *12,300	5,980 13,180	4,640 10,230	2,970 6,550	2,370 5,220	1,880 4,140	1,500 3,310	1,700 3,750	1,360 3,000	6.49 (21.3)
-3.0m - 10.0f t	kg lb	*8,530 *18,810	*8,530 *18,810	*5,440 *11,990	4,720 10,410	3,000 6,610	2,400 5,290			*2,270 *5,000	2,050 4,520	5.17 (17.0)

• Boom: 4.3 m (14' 1") • Arm: 1.96 m (6' 5") • Bucket: 0.45 m³ (0.59yd³) SAE heaped • Shoe : 500mm(20") triple grouser with 1,450kg(3,200 lb) CWT

Load Point height m(ft)		Load radius									At max. reach		
		1.5m (5.0ft)		3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		Capacity		Reach	
												m (ft)	
6.0m 20.0ft	kg Ib					*1,770 *3,900	*1,770 *3,900			*1,820 *4,010	*1,820 *4,010	5.62 (18.4)	
4.5m 15.0ft	kg Ib					*1,950 *4,300	*1,950 *4,300			1,750 3,860	1,420 3,130	6.62 (21.7)	
3.0m 10.0ft	kg Ib		 	*3,160 *6,970	*3,160 *6,970	*2,410 *5,310	*2,410 *5,310	2,020 4,450	1,640 3,620	1,480 3,260	1,180 2,600	7.10 (23.3)	
1.5m 5.0ft	kg Ib		 	*4,940 *10,890	*4,940 * 10,890	*3,060 *6,750	2,550 5,620	1,940 4,280	1,560 3,440	1,410 3,110	1,120 2,470	7.18 (23.6)	
Ground Line	kg Ib			*5,870 *12,940	4,580 10,100	6,970 6,550	2,370 5,220	1,860 4,100	1,480 3,260	1,490 3,280	1,480 2,600	6.89 (22.6)	
-1.5m -5.0ft	kg Ib	*6,090 *13,430	*6,090 *13,430	*5,860 *12,920	4,540 10,010	2,900 6,390	2,310 5,090			1,820 4,010	1,460 3,220	6.15 (20.2)	
-3.0m - 10.0ft	kg Ib	*9,180 *20,240	*9,180 *20,240	*5,080 *11,200	4,670 10,300	2,980 6,570	2,380 5,250						

• Boom: 4.3 m (14′ 1″) • Arm: 2.81 m (9′ 3″) • Bucket: 0.45 m³ (0.59yd³) SAE heaped • Shoe : 500mm(20″) triple grouser with 1,450kg(3,200 lb) CWT

Load Point height m(ft)				At max. reach								
		1.5m (5.0ft)		3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		Capacity		Reach
				· ·				·				m (ft)
6.0m 20.0ft	kg Ib						 			*1,570 *3,640	1,520 3,350	6.66 (21.9)
4.5m 15.0ft	kg Ib						 	*1,640 *3,620	*1,640 *3,620	1,450 3,200	1,170 2,580	7.50 (24.6)
3.0m 10.0ft	kg Ib				 	*1,920 *4,230	*1,920 *4,230	*1,830 *4,030	1,770 3,900	1,270 2,800	1,020 2,250	7.92 (23.3)
1.5m 5.0ft	kg Ib			*4,050 *8,930	*4,050 *8,930	*2,690 *5,930	*2,690 *5,930	2,050 4,520	1,670 3,680	1,210 2,670	960 2,120	7.99 (26.2)
Ground Line	kg Ib	*3,230 *7,120	*3,230 * 7,120	*5,580 *12,300	4,910 10,820	3,130 6,900	2,530 5,580	1,950 4,300	1,570 3,460	1,260 2,780	1,000 2,200	7.74 (25.4)
-1.5m - 5.0f t	kg Ib	*4,960 *10,930	*4,960 *10,930	6,060 13,360	4,710 10,380	3,000 6,610	2,410 5,310	1,890 4,170	1,510 3,330	1,460 3,220	1,170 2,580	7.11 (23.2)
-3.0m - 10.0ft	kg Ib	*7,230 *15,940	*7,230 *15,940	*5,830 *12,850	4,720 10,410	2,980 6,570	2,390 5,270			1,990 4,390	1,610 3,550	5.96 (19.6)
-4.5m - 15.0ft	kg Ib			*4,480 *9,880	*4,480 *9,880							

Lifting capacity is based on SAE J1097, ISO 10567.
Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The load point is a hook (standard equipment) located on the back of the bucket. 4. (*) indicates load limited by hydraulic capacity.

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