

Robex 110-7A

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 & Ash-tray

Computer Aided Power

- Optimization(New CAPO) system
- · 2-power mode, 3-work mode, 2-user mode Auto deceleration & one touch deceleration
- · Auto warm up system
- Auto overheat prevention system

Heater & Defroster Self diagnostic system Starting Aid, cold weather

Centralized monitoring

- · LCD display
- Engine speed Clock & Error code
- Gauges
- Fuel level gauge
- Engine coolant temperature gauge Hyd. oil temperature gauge
- Warning
- Engine coolant & Fuel level
- Check Engine & 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 Mechanical suspension seat with heater

(Furone / North America) 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 12 V x 80 AH)

Battery master switch Automatic swing brake

Removable reservoir tank

Fuel prefilter with fuel warmer Boom holding system

Arm holding system

Counterweight (1450 kg, 3200 lb) Mono boom (4.3 m, 14' 1")

Arm (2.26m, 7' 5")

Track shoes (500 mm, 20") Track rail guard

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine shown may vary according to International standards.

PLEASE CONTACT

HYUNDAI HEAVY INDUSTRIES CO., LTD.

CONSTRUCTION EQUIPMENT

All US measurement rounded off to nearest pounds or inches.

1 JEONHA-DONG, DONG-GU, ULSAN, KOREA Tel (82) (52) 202-7970, 7729 Fax (82) (52) 202-7979, 7720 U.S. Operation

Hyundai Construction Equipment U.S.A., Inc. 955 ESTES AVENUE, ELK GROVE VILLAGE IL.,60007 **Tel** (1) 847-437-3333 **Fax** (1) 847-437-3574

European Operation Hyundai Heavy Industries Europe N.V. VOSSENDAAL 11, 2440 GEEL, BELGIUM Tel (32) 14-562200 Fax (32) 14-593405-06

www.hvundai-ce.com

Beacon lamp

Optional Equipment

Air-conditioner(5000 kcal/hr, 20000 BTU/hr) Sun visor for cabin inside Fuel filler pump(35 ℓ /min, 9.5 USgpm)

Safety lock valve for boom cylinder with

overload warning device Safety lock valve for arm cylinder

Single acting piping kit(breaker, etc) Double acting piping kit(clamshell, etc)

Accumulator, work equipment lowering 12 volt power supply(DC - DC converter)

CD Player Radio Travel alarm

Various optional Arms

- · Short arm (1.96 m, 6' 5")
- · Long arm (2.91 m, 9' 3")

Various optional Buckets(SAE heaped)

- Standard bucket (0.45m3, 0.59 yd3) Narrow bucket (0.30 m³, 0.39 yd³)
- Narrow bucket (0.40 m³, 0.52 yd³)
- Light duty bucket (0.50 m³, 0.65 yd³)
- Heavy duty bucket (0.59 m³, 0.77 yd³)

Cabin lights Cabin FOPS/FOG (IOS 10262) **Cabin Roof - Cover Transparent Type**

- · Triple grousers shoe (600mm, 24")
- · Triple grousers shoe (700mm, 28")

Counterweight (1700kg, 3750lb)

Lower frame under cover Tool kit

Rotating piping kit Operator suit

Special cowling Air vent type side door

- · Adjustable air suspension seat
- · Adjustable air suspension seat with heater

2008. 03 Rev 0.





110-7A / 110D-7A





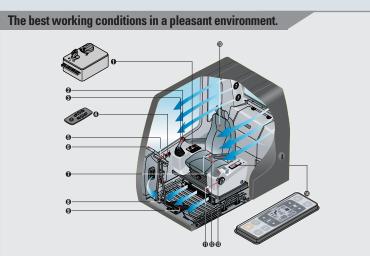
Operator's Comfort is Foremost. Wide Cab Exceeds Industry Standards.

Technology in Cab Design



Wide Cab with Excellent Visibility

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.



- Centralized control panel
- 2Horn button
- Option button
- ♠ Remote Radio control
- Travel lever
- **6**Cluster
- One touch decel button

- 8 Hour meter
- Travel pedal
- Fully adjustable suspension seat
- Safety lever
- Power boost button
- Air Conditioner and Heater controller









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.



Highly Sensitive Joystick and Easy Entrance

New joystick grips for precise control have been equipped with 4 switches.

Power boost Left One touch deceleration

Right Horn/Optional/Dummy



Easy-to-Reach Control Panels

Switches and other essential controls are located near the operator. This helps keep operator move-ment to a minimum, enhancing control with less operator fatigue.



Wide, Comfortable **Operating Space**

All the controls are designed and positioned according to the latest ergonomic research. Reinforced greater cab rigidity.



Raise-up Wiper and Cabin Lights

Raise-up wiper has enhanced for the better front view.

Cabin Lights enhances safety by pillars have also been added for brightly lighting the surroundings during night work(optional)



Automatic Engine Overheat

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

NEW MODE CONTROL SYSTEM

1 POWER MODE

H mode: High power

L mode: Light power



Anti Restart System

The new system protects the starter from re-starting during engine operation, even if the operator accidentally turns the start key



Power boost control System

When the power boost system is about 10%

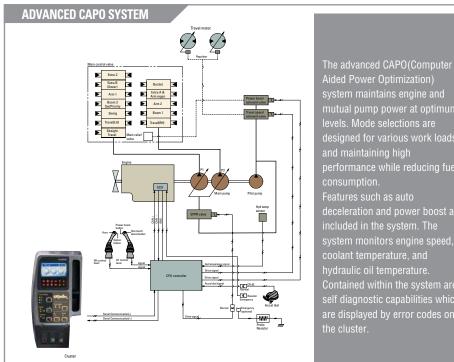
It is especially useful when extra power is temporarily needed, for instance, when digging hard earth and rock, or if the bucket teeth are stopped by a stubborn tree root.



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 increases the pump flow rate to warm up the engine more

Advanced Hydraulic System



in operation without cavitations.

Boom & Arm Holding System

One Touch Deceleration

When the one touch deceleration button on top of immediately down to low idle rpm. rpm in case the button is pushed once more.

Pump Flow Control System

In operation: Maximum pump flow is delivered to the proportionally controlled.

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

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 arm-

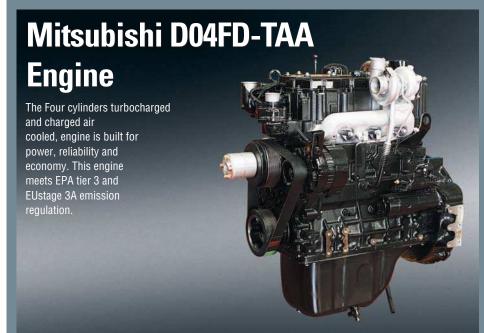
The Holding valves in the main control valve prevents the boom & arm from dropping over an extended period in neutral position.

LH joystick is pushed once, the engine rpm will be Engine speed will be recovered to its preselected

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

actuator to increase the speed. With movement of the control lever, pump flow is automatically adjusted and the actuator speed can be

Hydraulic Damper in Travel Pedal



Reliability You Can Depend On

When you have a tough job to do you need the power precision and flexibility of Mitsubishi D04FD-TAA engines.

It features major enhancements to make every piece of equipment work harder, smarter, quieter and longer.

The High Pressure Common Rail Fuel System

provides enhanced engine performance with higher torque and better throttle response at every rpm without compromising fuel economy.

The Mitsubishi D04FD-TAA engine is based on the highly successful Mitsubishi SK series engines. These engines combine proven full authority electronic controls with reliable performance you expect from one of the most successful and

Increased Higher Performance



Strong and Stable Lower Frame

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

It quarantees 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.

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.



Powerful and Preciser Swing Control

Improved shock absorbing characteristics make stopping a precise and smooth action



HYUNDAI CONSTRUCTION EQUIPMENT 06/07 Courtesy of Machine. Market

Full open doors and master key system provide easy access for servicing.

Reliability & Serviceability



Side Cover with Left & Right Swing Open TypeEasy access to vital components gives unrestricted view of

component allows easy maintenance and repair.



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.



Highly efficient Hydraulic Pump
Pump output capacity has been increased.



Large tool box for extra storage



Specifications



Engine

Model		Mitsubishi D04FD-TAA
		Water cooled, 4 cycle Diesel. 4 Cylinders in line, direct injection turbocharged and charged air cooled low emission
CVE	J1995(gross)	96.7HP (72kW) at 1,800rpm
SAE	J1349(net)	89HP (66kW) at 1,800rpm
DIN	6271/1(gross)	98PS (72kW) at 1,800rpm
וווע	6271/1(net)	90PS (66kW) at 1,800rpm
Max. torque		42.8kgf·m (310lbf·ft) at 1,400rpm
roke		102 x 130mm (4.0" x 5.1")
Piston displacement		4,249cc (259 cu in)
;		2 x 12V x 80AH
Starter motor		24V-5.0kW
Alternator		24V- 50 Amp
֡	SAE DIN que croke splacemer	SAE J1995(gross) J1349(net) DIN 6271/1(gross) 6271/1(net) que croke splacement intor



Hydraulic system

)					
Main pump					
Type		Two variable displacement piston pumps			
Max. flow		2 x 107 £ /min (29.6US gpm / 24.6UK gpm)			
Sub-pump for pilot circ	uit	Gear pump			
Cross-sensing and fuel sa	aving 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 70 x 1015mm (3.7" x 2.7" x 40.0")				
No. of cylinder-	Arm: 1 - 110 x 75 x 1070mm (4.3" x 3.0" x 42.1")				
bore x rod x stroke	Bucket: 1 - 95 x 65 x 855mm (3.7" x 2.6" x 33.7")				
	Blade: 2-100 x 70 x240mm (3.9" x 2.7" 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)	5.2 km/hr (3.2mph) / 3.2 km/hr (2.1mph)
Gradeability	35° (70%)
Parking brake	Multi wet disc



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	12.0 rpm



Coolant & Lubricant capacity

(Refilling)	liter	US gal	UK gal
Fuel tank	250	66.0	55.0
Engine coolant	22	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

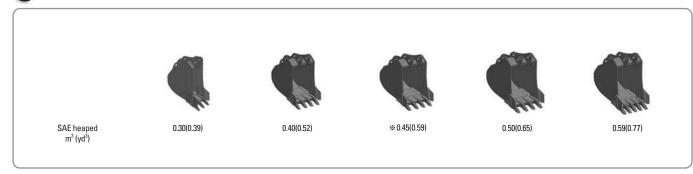
Shoes		Oper	ating weight	Ground pressure			
Type	Width mm(in)		kgf/cm²(psi)				
	* 500(20")	R110-7A	11,200(24,690)	0.39(5.55)			
	× 500(20)	R110D-7A	11,900 (26,230)	0.42(5.97)			
Triple		R110-7A	11,500(25,350)	0.34(4.84)			
grouser		R110D-7A	12,200(26,900)	0.36(5.12)			
		R110-7A	11,800(26,010)	0.30(4.27)			
	700(28")	R110D-7A	12.500(27.560)	0.31(4.41)			

[※] Standard equipment

Backhoe attachment



Buckets



Capa	acity	Wi	dth		R		Recommendation mm(ft.in)	
m³	(yd³)	mm	(in)	Weight	Mono Boom			
SAE heaped	CECE heaped	Without side cutters	With side cutters	kg(lb)	Ib) 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	-

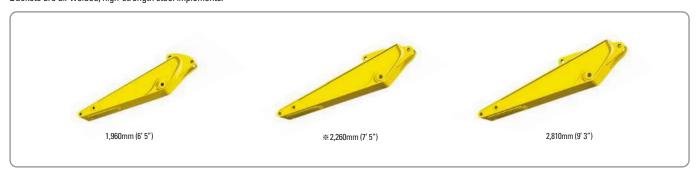
^{* :} Standard backhoe bucket

- 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 / m³ (1,850 lb / yd³) 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.





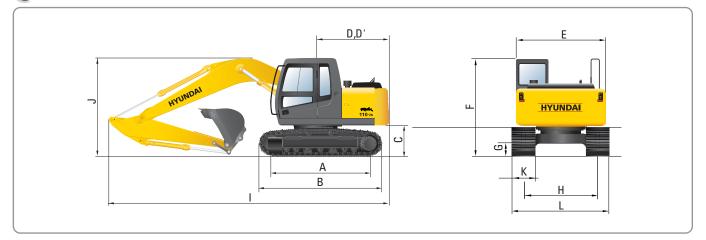
Digging force

Arm	Length	mm(ft-in)	1,960mm (6'5")	※ 2,260mm (7' 5")	2,810mm (9'3")	Remark
AIII	Weight	kg(lb)	320(710)	340(750)	400(880)	nelliark
		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]	
digging		lbf	17,640[19,240]	17,640[19,240]	17,640[19,240]	
force	ISO	kN	90.2[98.4]	90.2[98.4]	90.2[98.4]	
10166		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]	[]:
	SAE ISO	kN	60.2[65.7]	55.7[60.8]	48.1[52.4]	Power Boost
Arm		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]	
force		kN	62.9[68.6]	58.1[63.3]	49.7[54.2]	
		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]	

[★] Standard equipment

Dimensions & Working ranged

Dimensions R110-7A

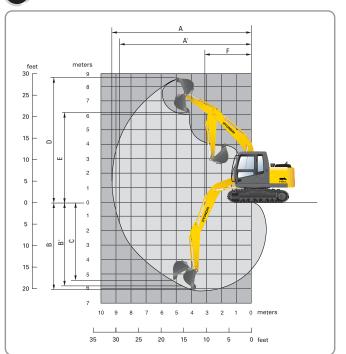


		mm (ft · in)
	Description	R110-7A
Α	Tumbler distance	2,610 (8′7″)
В	Overall length of crawler	3,340 (10′11″)
C	Ground clearance of counterweight	900 (2′11″)
D	Tail swing radius	2,130 (7'0")
D'	Rear-end length	2,110 (6′11″)
Ε	Overall width of upperstructure	2,475 (8'1")
F	Overall height of cabin	2,800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

				mm (ft · in)
	Boom length	*4,3	00 (14' 1'') Mono	boom
	Arm length	1,960 (6' 5'')	※2,260 (7' 5'')	2,810 (9' 3")
I	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

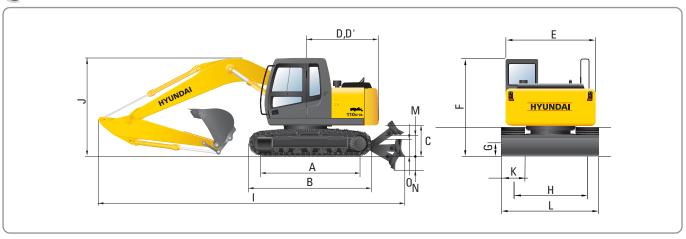
Working ranges R110-7A



				mm (ft · in)
	Description		R110-7A	
	Boom length	※4,3	00 (14' 1'') mono k	oom
	Arm length	1,960 (6'5")	% 2,260 (7' 5'')	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'')
Е	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-7A

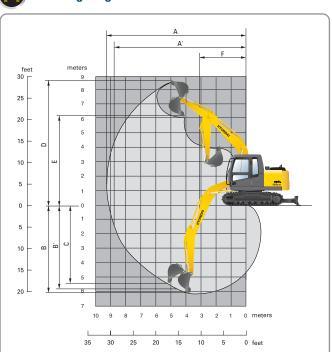


		mm (ft · in)
	Description	R110D-7A
Α	Tumbler distance	2,610 (8'7")
В	Overall length of crawler	3,340 (10'11")
С	Ground clearance of counterweight	900 (2′11″)
D	Tail swing radius	2,130 (7′0″)
D'	Rear-end length	2,110 (6′11″)
Ε	Overall width of upperstructure	2,475 (8'1")
F	Overall height of cabin	2,800 (9'2")
G	Min. ground clearance	440 (1'5")
Н	Track gauge	1,990 (6'6")
M	Ground Clearance of blade up	500 (1' 8'')
N	Depth of blade down	520 (1' 8'')

				111111 (12 111)					
0	Height of blade		550 (1' 10'')						
	Width of blade		2,500 (8' 2'')						
	Boom length	% 4,300 (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	500 (20")	600 (24")	700 (28")					
L	Overall width	2,490 (8' 2'')	2,590 (8' 6'')	2,690 (8' 10'')					
	and and a suface set								

※ Standard equipment

Working ranges R110D-7A



				mm (ft · in)
	Description		R110D-7A	
	Boom length	※4,3	300 (14՝ 1'') mono b	oom
	Arm length	1,960 (6'5")	※2,260 (7' 5'')	2,810 (9' 3")
A	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'')
Ε	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

Lifting Capacities



Lifting capacities R110-7A



• 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

					Load	radius					At max. reach	1
Load Po heigh		1.5m	(5.0ft)	3.0m	(10.0ft)	4.5m	(15.0ft)	6.0m	6.0m (20.0ft)		Capacity	
m(ft)												m (ft)
6.0m 20.0ft	kg Ib					*1,750 *3,860	*1,750 *3,860			*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 Ib		 	*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 Ib		 	*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	radius					At max. reach	1
Load Point height m(ft)		1.5m (5.0ft)		3.0m	(10.0ft)	4.5m	(15.0ft)	6.0m	20.0ft)	Capacity		Reach
						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 -5.0ft	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			1,670 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	radius					At max. reach	1
Load Po height		1.5m	(5.0ft)	3.0m	(10.0ft)	4.5m	(15.0ft)	ft) 6.0m (20.0ft) Capacity		acity	Reach	
m(ft)	L					Į.						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 Ib	*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-7A

Rating over-front Rating over-side or 360 degree	
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• 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

					Load	radius					At max. reach	
Load Po heigh		1.5m	(5.0ft)	3.0m	(10.0ft)	4.5m	(15.0ft)	6.0m	(20.0ft)	Сар	Reach	
m(ft)	L											m (ft)
6.0m 20.0ft	kg Ib					*1,750 *3,860	*1,750 *3,860		1	*1,750 *3,860	*1,750 *3,860	5.99 (19.7)
4.5m 15.0ft	kg Ib					*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 Ib		 	*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 Ib	*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 -10.0ft	kg Ib	*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	radius					At max. reach	ı
Load Po height		1.5m (5.0ft)		3.0m	(10.0ft)	4.5m	(15.0ft)	6.0m	(20.0ft)	Capacity		Reach
m(ft)		Į.		·		Į.		Į.		Į.		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

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					Load	radius					At max. reach	ı
Load Po height		1.5m (5.0ft)		3.0m (10.0ft)		4.5m	4.5m (15.0ft)		(20.0ft)	Capacity		Reach
m(ft)												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 -5.0ft	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							

NOTES

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