



Robex 170W-7A

Standard Equipment

ISO standard cab

- 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 system
- Auto warm up system
- Auto overheat prevention system

Heater(7,500 kcal/hr, 30,000BTU/hr) & Defroster

Self diagnostic system Centralized monitoring

- LCD display
- Engine speed
- Clock & Error code
- Gauges
- Fuel level gauge
- Engine coolant temperature gauge
- Hyd. oil temperature gauge
- Warning
- 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

Two outside rearview mirrors

Fully adjustable suspension seat with seat belt

Slidable joystick, pilot-operated

Automatic swing brake

Removable reservoir tank

Water separator & Fuel pre-filter, fuel line

Boom holding system

Arm holding system

Counterweight (2,750kg, 6,060lb)

mono boom (5.1m, 16' 9")

Arm (2.2m, 7' 3")

Am/Fm radio and cassette

• Radio remote switch

Console box tilting system (LH.)

Three front working light

Electric horn

Batteries (2 x 12V x 100AH)

Battery master switch

Starting Aid(air grid heater) cold weather

Standard bucket(0.76 m³, 0.99 yd³)

Rear - blade (550 x 2500)

Tires - dual (10.00 - 20 - 14PR)

Travel alarm

Fuel warmer

Optional Equipment

Air-conditioner (5,000kcal/hr, 20,000BTU/hr)

Sun visor for cabin inside

Fuel filler pump (35 ℓ /min, 9.5 USgpm)

Beacon lamp

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)

Rotating piping kit

Accumulator, work equipment lowering

12 volt power supply (DC-DC converter)

Electric. transducer

Mechanical suspension seat with heater

Adjustable air suspension seat

CD Player Radio

Various optional Boom

- hyd adjustable boom (5.1m, 16' 9")

Various optional Arms

- Semi long arm (2.6m, 8' 6")
- Long arm (3.1m, 10' 2")

Various optional Buckets (SAE heaped)

- Standard bucket (0.76m³, 0.99yd³)
- Narrow bucket (0.39m³, 0.51yd³)
- Narrow bucket (0.50m³, 0.65yd³)
- Narrow bucket (0.64m³, 0.84yd³)
- Light duty bucket (0.89m³, 1.16yd³)
- Light duty bucket (1.05m³, 1.37yd³)
- Heavy duty bucket (0.69m³, 0.90yd³)

Cabin lights

Cabin FOPS/FOG (ISO/DIS 10262)

Cabin Roof - Cover Transparent

Lower frame under cover

Pre heating system

Tool kit

Operator suit

Special cowling

- Air vent type side door

Hydraulic adjustable boom(5.1 m, 16' 9")

Undercarriage

- Rear outrigger
- Rear dozer and front outrigger
- Rear and front outrigger
- Rear outrigger and front dozer

Tiers - dual (10.00 - 20 solid)

Seat

- Adjustable air suspension seat
- Mechanical suspension seat with heater
- Adjustable air suspension with heater



Building a better future ———
Global Leader

Robex **NEW 7A SERIES**

WHEELED EXCAVATOR *Applied Tier 3 Engine*

170W-7A



HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

■ Some of the photos may include optional equipment.*

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.

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We build a better future

Built for Maximum Power, Performance, Reliability.

A new chapter in construction equipment has now begun.
Making the dream a reality.

Robex 170W-7A



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

Technology in Cab Design



Visibility

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



Excellent Ventilation

- 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 fatigue.
- 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 new 7A series was designed with low operation noise in mind.
- Hyundai engineering helps to keep interior and exterior noise levels to a minimum.
- 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.



- 1 Wide, Comfortable Operating Space
- 2 Steel Cover Sunroof
- 3 Dial Type Engine Speed Switch and / Key Switch

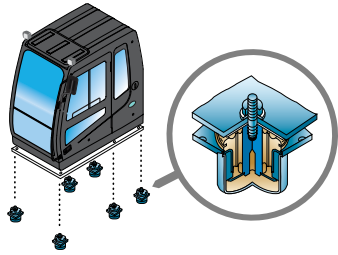
Remote Radio Control and Deluxe Cassette



Robex 170W-7A



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.



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.



Operating Environment

Maximum Protection



▲ 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.

◀ 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.



Highly Sensitive Joystick and Easy Entrance
New joystick grips for precise control have been equipped with 4 switches.

- Left Power boost/Dummy
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 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.



Raise-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)



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.

Adjustable Steering Column



The best working conditions in a pleasant environment.

- 1 Switch panel(R.H)
- 2 Horn button
- 3 Option button(breaker operation)
- 4 Remote radio control
- 5 Cluster
- 6 Hour meter
- 7 Accel pedal
- 8 Brake pedal
- 9 Multi function switch(R.H)
- 10 Steering
- 11 Switch panel(Front)
- 12 Multi function switch(L.H)
- 13 Safety lever
- 14 Joystick control lever
- 15 Power Max. button
- 16 One touch decel button
- 17 Dozer blade Lever
- 18 Air conditioner and heater controller
- 19 Fully adjustable suspension seat



Automatic Engine Overheat Prevention

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



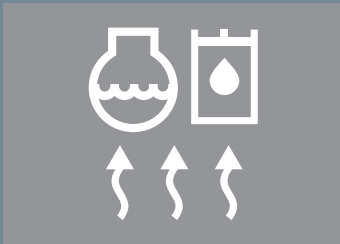
Anti Restart System

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



Power boost control System

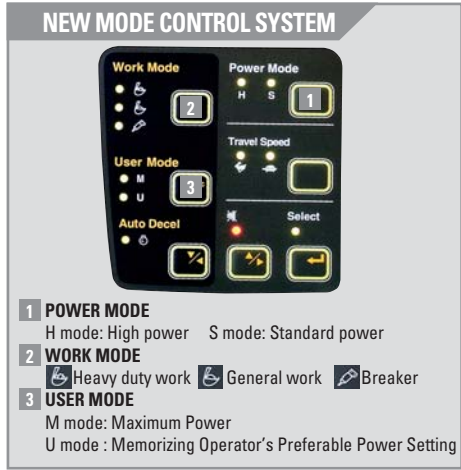
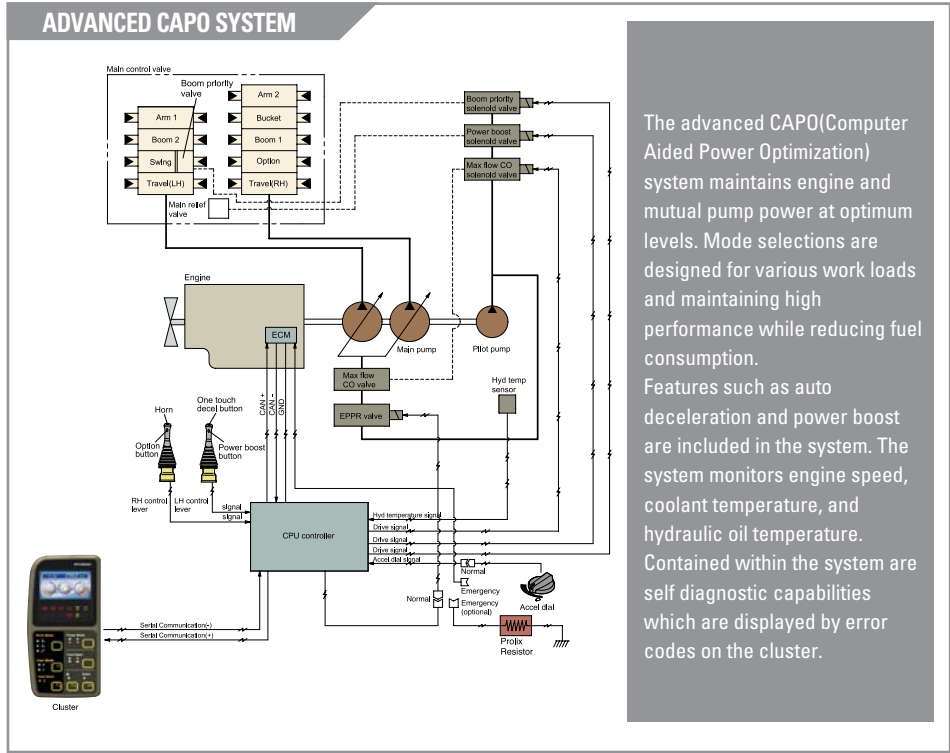
When the power boost system is activated, digging power increases about 10%. It is especially useful when extra power is temporarily needed, for instance, when digging hard earth and rock, or if the bucket teeth are stopped by a stubborn tree root.



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 increases the pump flow rate to warm up the engine more effectively.

Advanced Hydraulic System



Auto Deceleration System

When remote-control valves are in neutral position more than 4 seconds, CPU controller instructs the accel actuator to reduce engine speed to 1000rpm. This decreases fuel consumption and reduces cab noise levels.

Max. Flow Cut-off System

For precise control and finishing work, the Max. Flow Cut-off System reduces pump flow, thus allowing smooth operation.

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 through error codes. This controller has the capacity to identify 48 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.

One Touch Decel System

When the one touch decel switch is pressed, CPU controller controls the accel actuator to reduce engine speed to 850 rpm. And then the one touch decel switch is pressed again, the engine speed recovers.

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.

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.

Arm Flow Regeneration System

Arm flow regeneration valve provides smooth arm-in operation without cavitation.

Hydraulic Damper in Travel Pedal

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

Mitsubishi D04FD-TAA Engine

The four cylinders turbocharged and charged air cooled, engine is built for power, reliability and economy. This engine meets EPA tier 3 and EUstage 3A emission regulation.



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 durable engine design.

Increased Higher Performance



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.



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 protection cover for transmission.



Large Toolbox & Safe Footholds

Anti-slip footholds and wide toolbox improved safety and convenience.

Powerful and Preciser Swing Control

Improved shock absorbing characteristics make stopping a precise and smooth action



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

Reliability & Serviceability



Side Cover with Left & Right Swing Open Type
Easy 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.



Easy to Change Air Cleaner Assembly
Air cleaner is centralized in one or the same compartment for easy service.

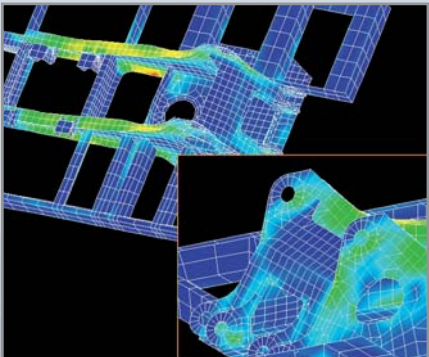


Highly efficient Hydraulic Pump
Pump output capacity has been increased.



Large tool box for extra storage

Durability of structure proven through FEM(Finite Element Method) analysis and long term durability test.



■ Some of the photos may include optional equipment.

Specifications



Engine

Model			Mitsubishi D04FD-TAA
Type			Water cooled, 4 cycle Diesel 4-cylinders in line, direct injection, Turbocharged and charge air cooled
Rated flywheel horse power	SAE	J1995 (gross)	126 HP (94 kW) at 2,000 rpm
		J1345 (net)	116 HP (87 kW) at 2,000 rpm
	DIN	6271/1(gross)	128 PS (94 kW) at 2,000 rpm
		6271/1(net)	118 PS (87 kW) at 2,000 rpm
Max. torque		47.7 kgf-m(345 lbf-ft) at 1,800 rpm	
Bore x stroke		102 x 130 mm (4.02" x 5.12")	
Piston displacement		4,249 cc (259 in³)	
Batteries		2 x 12 V x 100 AH	
Starting motor		24 V- 5.0kW	
Alternator		24V-50 Amp	



Hydraulic system

Main pump	
Type	Two variable displacement piston pumps
Rated flow	2 x 168 ℓ/min (44.4 US gpm / 37.0 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump system	
Hydraulic motors	
Travel	Two speed axial piston motor with brake valve
Swing	Axial piston motor with automatic brake
Relief valve setting	
Implement circuits	330 kgf/cm² (4,690 psi)
Travel	330 kgf/cm² (4,690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	240 kgf/cm² (3,410 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x rod x stroke	Boom : 2-115× 80×1,090 mm (4.5"×3.1"×42.9")
	Arm : 1-120× 85×1,340 mm (4.7"×3.3"×52.8")
	Bucket : 1-115× 80× 950 mm (4.5"×3.1"×37.4")
	Blade : 2-110× 75× 235 mm (4.3"×3.0"×9.3")
	Outrigger : 2-125× 75× 475 mm (4.9"×3.0"×18.7")
	2-PCS 1st : 2-115×80× 960 mm (4.5"×3.1"×37.8") 2nd : 1-160×95× 650 mm (6.3"×3.7"×25.6")



Drives & Brakes

4-wheel hydrostatic drive. Constant mesh, helical gear transmission provides 2 forward and reverse travel speeds.

Max. drawbar pull	11,000 kgf (24,300 lbf)
Travel speed	1st (forward) / (reverse) 9.5 (5.9)
	2nd(forward) / (reverse) 30 (18.6)
Gradeability	30° (58 %)
Service brake : Independent dual brake, front and rear axle full hydraulic power brake. <ul style="list-style-type: none">• Full hydraulic applied wet type multiple disc brake.• Transmission is locked at neutral position for parking, automatically.	



Control

Pilot operated joysticks and pedals provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket(ISO)
Engine throttle	Electric, Accel dial switch
External Lights	One lights mounted on the boom, one below the cab, one in the tool box



Axles & Wheels

Full floating front axles is supported by center pin for oscillation. It can be locked by oscillation lock cylinders. Rear axle is fixed on the lower chassis.

Tires	10.00-20-14PR, Dual(tube type)
(option)	10.00-20, Dual(solid type)



Swing system

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing circuit lubrication	Grease-bathed
Swing brake (option)	multi wet disc (Pin lock type)
Swing speed	11.0 rpm



Steering system

Hydraulically actuated, orbital type steering system actuates on front wheels through the steering cylinders.

Min. turning radius	6,100 mm(20' 0")
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Coolant & Lubricant capacity

(refilling)	liter	US gal	UK gal
Fuel tank	260	68.7	57.2
Engine coolant	28	7.4	6.2
Engine oil	17.5	4.6	3.8
Swing device	5.0	1.3	1.1
Axle	(Front)	15.5	4.1
	(Rear)	17.5	4.6
Hydraulic system	240	63.4	52.8
Hydraulic tank	160	42.3	35.2



Undercarriage

Reinforced box-section frame is all-welded, low-stress. Dozer blade and outriggers are available. A pin-on design.

Dozer blade	A very useful addition for leveling and back filling or clean-up work.
Outrigger	Indicated for max. operation stability when digging and lifting. Can be mounted on the front/or the rear.



Operating weight (approximate)

Operating weight, including 2,200mm (7' 3")arm, SAE heaped 0.76 m³ (0.99 yd³) backhoe bucket, lubricant, coolant, and full fuel tank, hydraulic tank and the standard equipment.

Major component weight	
Upperstructure	4,490kg (9,900 lb)
Counterweight	2,750kg (6,060 lb)
Mono boom(with arm cylinder)	1,240kg (2,730 lb)
Hydraulic adjustable boom (with arm cylinder)	1,780kg (3,920 lb)

Operating weight

Undercarriage	※ Mono boom	Hyd. adjustable boom
※ Rear-dozer blade	16,200kg (35,710 lb)	16,670kg (36,750 lb)
Rear-2 outrigger	16,350kg (36,050 lb)	16,820kg (37,080 lb)
Front-outrigger+Rear-blade	17,320kg (38,180 lb)	17,790kg (39,220 lb)
Four outrigger	17,500kg (38,580 lb)	17,970kg (39,620 lb)
Front-blade+Rear-outrigger	17,260kg (38,050 lb)	17,730kg (39,080 lb)
Front-blade+Rear-blade	17,080kg (37,650 lb)	17,550kg (38,690 lb)

※ Standard equipment

Backhoe attachment



Buckets

SAE heaped m³ (yd³)							
	0.39 (0.51)	0.50 (0.65)	0.64 (0.84)	※ 0.76 (0.99)	0.89 (1.16)	1.05 (1.37)	◎0.69 (0.90)

Capacity m³ (yd³)		Width mm (in)		Weight kg(lb)	Recommendation mm(ft.in)					
SAE heaped	CECE heaped	Without side cutters	With side cutters		Boom	※ 5,100 (16' 9") Mono boom			5,100(16' 9") Hydraulic Adjustable boom	
					Arm	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")	2,200 (7' 3")	2,600 (8' 6")
0.39 (0.51)	0.34 (0.44)	620 (24.4)	740 (29.1)	410 (900)		●	●	●	●	●
0.50 (0.65)	0.44 (0.58)	760 (29.9)	880 (34.6)	470 (1040)		●	●	■	●	●
0.64 (0.84)	0.55 (0.72)	920 (36.2)	1,040 (40.9)	510 (1120)		●	●	■	●	■
※ 0.76 (0.99)	0.65 (0.85)	1,060 (41.7)	1,180 (46.5)	570 (1260)		●	■	■	●	■
0.89 (1.16)	0.77 (1.01)	1,220 (48.0)	1,340 (52.8)	610 (1340)		■	▲	—	■	▲
1.05 (1.37)	0.90 (1.18)	1,400 (55.1)	1,520 (59.8)	680 (1500)		▲	—	—	▲	—
● 0.69 (0.90)	0.62 (0.81)	990 (39.0)	-	700 (1540)		●	■	▲	■	▲

※ : Standard backhoe bucket
◎: Heavy duty 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. 5.1m(16' 9") mono boom, 5.1m(16' 9") hydraulic adjustable boom 2.20m(7' 3"), 2.60m(8' 6"), and 3.10m(10' 2") arms are available. Buckets are all-welded, high-strength steel implements.

※ 2.20m (7' 3")	2.60m (8' 6")	3.10m (10' 2")



Digging force

Arm	Length	m(ft.in)	※ 2.20 (7' 3")	2.60 (8' 6")	3.10 (10' 2")	Remark
	Weight	kg(lb)	750 (1,650)	810 (1,790)	890 (1,960)	
Bucket digging Force	SAE	kN kgf lbf	108.6 [118.4] 11,070 [12,080] 24,410 [26,630]	108.6 [118.4] 11,070 [12,080] 24,410 [26,630]	108.6 [118.4] 11,070 [12,080] 24,410 [26,630]	[]: Power Boost
		kN kgf lbf	124.5 [135.9] 12,700 [13,850] 28,000 [30,550]	124.5 [135.9] 12,700 [13,850] 28,000 [30,550]	124.5 [135.9] 12,700 [13,850] 28,000 [30,550]	
Arm crowd Force	SAE	kN kgf lbf	85.2 [93.0] 8,690 [9,480] 19,160 [20,900]	75.0 [81.8] 7,650 [8,350] 16,870 [18,400]	67.4 [73.5] 6,870 [7,490] 15,150 [16,530]	
		kN kgf lbf	89.0 [97.1] 9,080 [9,910] 20,020 [21,840]	77.6 [84.6] 7,910 [8,630] 17,440 [19,030]	69.4 [75.7] 7,080 [7,720] 15,610 [17,030]	

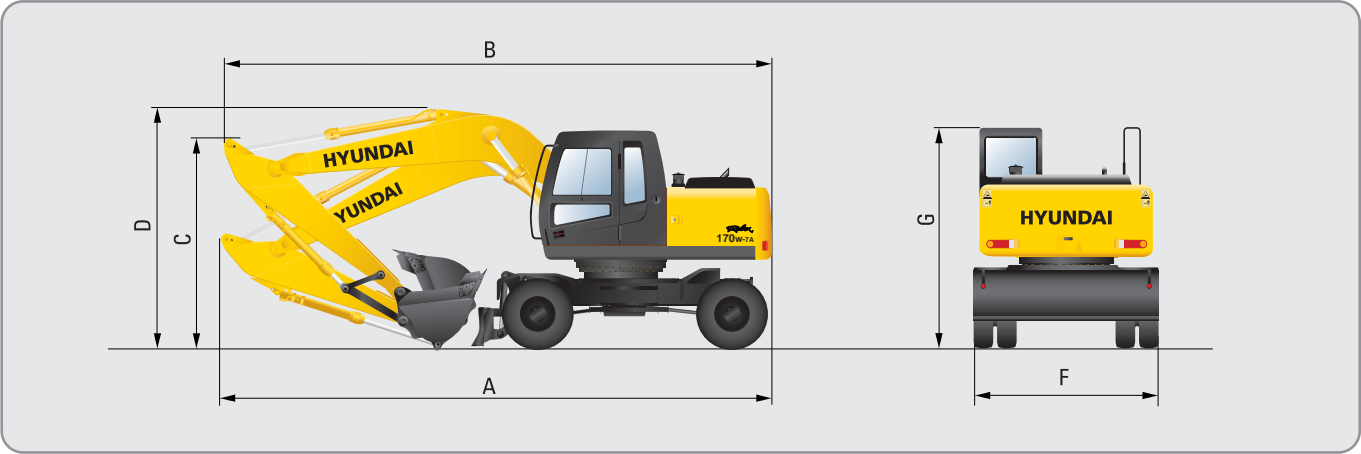
Note : Arm weight including bucket cylinder and linkage.

※ Standard arm

Dimensions & Working ranges



Dimensions R170w-7A Mono boom

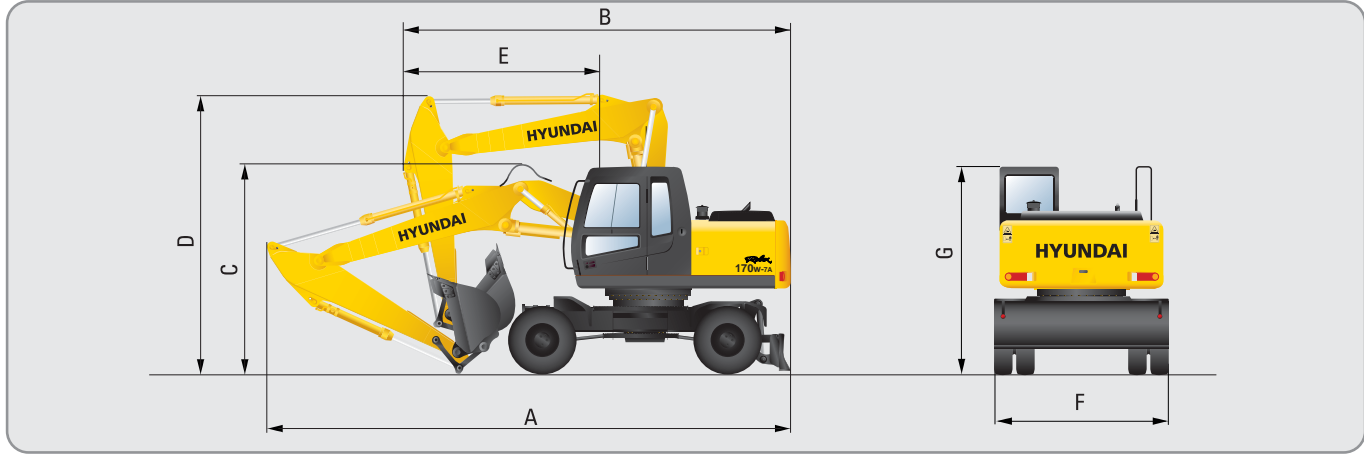


		mm (ft · in)		
Mono Boom		※5,100(16' 9")		
	Arm	※2,200 (7' 3")	2,600 (8' 6")	3,100 (11' 1")
A	Overall length of shipping position	8,610 (28' 3")	8,730 (28' 8")	8,770 (28' 9")
B	Overall length of traveling position	8,510 (27' 11")	8,600 (28' 3")	8,440 (27' 8")
C	Height of attachment (shipping position)	3,040 (9' 12")	2,970 (9' 9")	3,140 (10' 4")
D	Height of attachment (traveling position)	3,610 (11' 10")	3,980 (13' 1")	3,900 (12' 10")
F	Overall width	2,500 (8' 2")	2,500 (8' 2")	2,500 (8' 2")
G	Height of cabin	3,150 (10' 4")	3,150 (10' 4")	3,150 (10' 4")

※ Standard equipment



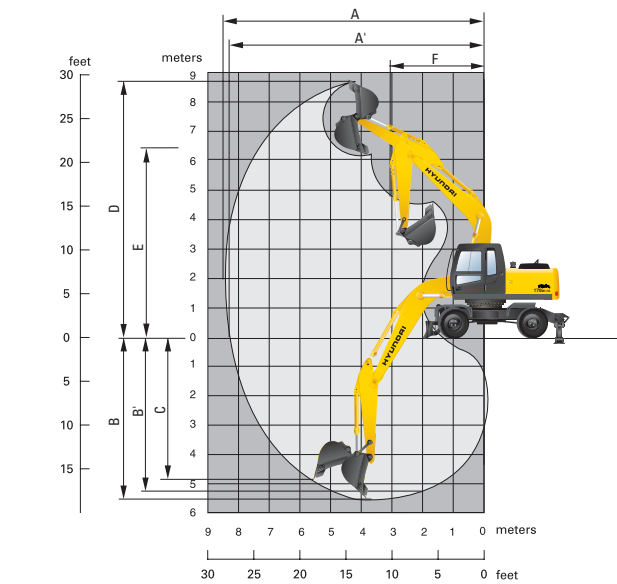
Dimensions R170w-7A Hydraulic adjustable boom



		mm (ft · in)	
Hydraulic adjustable Boom		5,100(16' 9")	
	Arm	2,200 (7' 3")	2,600 (8' 6")
A	Overall length of shipping position	8,600 (28' 3")	8,750 (28' 8")
B	Overall length of traveling position	6,600 (21' 8")	6,590 (21' 7")
C	Height of attachment (shipping position)	2,870 (9' 5")	2,910 (9' 7")
D	Height of attachment (traveling position)	3,980 (13' 1")	3,960 (13' 0")
E	End of attachment to steering wheel	3,300 (10' 10")	3,300 (10' 10")
F	Overall width	2,500 (8' 2")	2,500 (8' 2")
G	Height of cabin	3,150 (10' 4")	3,150 (10' 4")



Working ranges

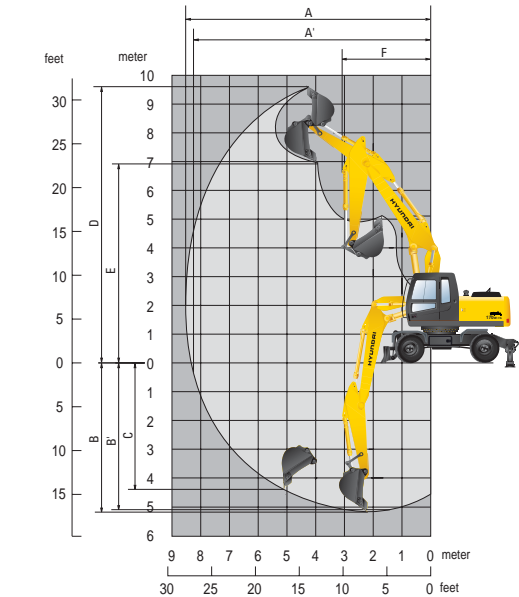


		mm (ft · in)		
Boom length		※ 5,100 (16' 9")		
	Arm length	※ 2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
A	Max. digging reach	8,690 (28' 6")	9,030 (29' 8")	9,450 (31' 0")
A'	Max. digging reach on ground	8,480 (27' 10")	8,820 (28' 11")	9,250 (30' 4")
B	Max. digging depth	5,420 (17' 9")	5,820 (19' 1")	6,320 (20' 9")
B'	Max. digging depth (8' level)	5,200 (17' 1")	5,610 (18' 5")	6,130 (20' 1")
C	Max. vertical wall digging depth	4,890 (16' 1")	5,240 (17' 2")	5,540 (18' 2")
D	Max. digging height	8,990 (29' 6")	9,110 (29' 11")	9,220 (30' 3")
E	Max. dumping height	6,350 (20' 10")	6,480 (21' 3")	6,620 (21' 9")
F	Min. swing radius	3,180 (10' 5")	3,180 (10' 5")	3,180 (10' 5")

※ Standard Equipment

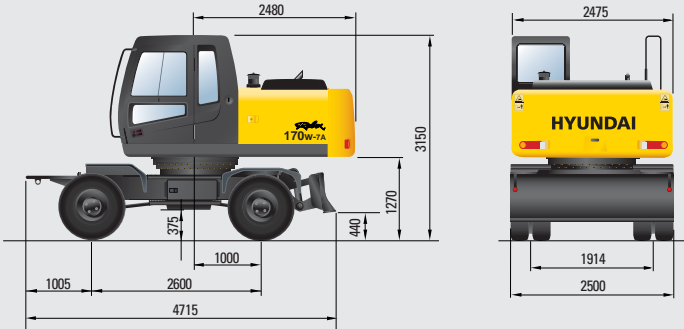


Working ranges

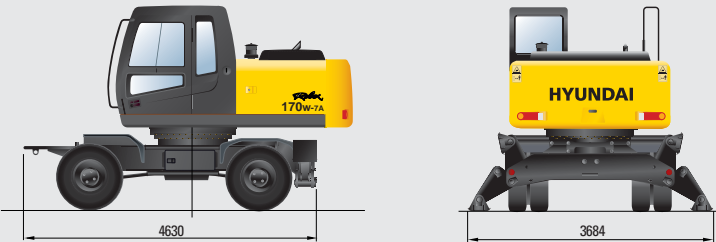


		mm (ft · in)	
Boom length		5,100(16' 9")	
	Arm length	2,200 (7' 3")	2,600 (8' 6")
A	Max. digging reach	8,600 (28' 3")	9,120 (29' 11")
A'	Max. digging reach on ground	8,370 (27' 6")	8,910 (29' 3")
B	Max. digging depth	5,220 (17' 2")	5,600 (18' 4")
B'	Max. digging depth (8' level)	5,110 (16' 9")	5,500 (18' 1")
C	Max. vertical wall digging depth	4,430 (14' 6")	4,790 (15' 9")
D	Max. digging height	9,640 (31' 8")	9,850 (32' 4")
E	Max. dumping height	6,930 (22' 9")	7,140 (23' 5")
F	Min. swing radius	3,150 (10' 4")	2,970 (9' 9")

R170w-7A with rear dozer



R170w-7A with rear outrigger



R170w-7A with rear dozer and front outrigger



R170w-7A with rear and front outrigger



R170w-7A with rear outrigger and front dozer



Lifting capacities R170w-7A Mono boom



Rating over-front



Rating over-side or 360 degree













· Boom : 5.10m(16' 9") , · Arm : 2.20m(7' 3") · Bucket : 0.76m³(0.99yd³) SAE heaped · Rear dozer blade down with 2750kg(6060lb) CWT

Load point height m(ft)		Load radius								At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		Capacity		Reach
												m (ft)
7.5 m	kg									*3380	2920	6.09
25.0 ft	lb									*7450	6440	(20.0)
6.0 m	kg							*3150	2870	*3340	2050	7.32
20.0 ft	lb							*6940	6330	*7360	4520	(24.0)
4.5m	kg					*4420	*4420	*3880	2820	*3380	1680	8.01
15.0 ft	lb					*9740	*9740	*8550	6220	*7450	3700	(26.3)
3.0 m	kg			*9080	7960	*5600	4250	*4370	2670	3390	1510	8.33
10.0 ft	lb			*20020	17550	*12350	9370	*9630	5890	7470	3330	(27.3)
1.5 m	kg					*6690	3910	*4870	2520	3350	1470	8.32
5.0 ft	lb					*14750	8620	*10740	5560	7390	3240	(27.3)
Ground Line	kg			*7220	7040	*7190	3720	*5160	2410	3560	1560	7.99
	lb			*15920	15520	*15850	8200	*11380	5310	7850	3440	(26.2)
-1.5 m	kg	*7210	*7210	*10350	7090	*6990	3680	*5010	2380	*3590	1840	7.28
-5.0 ft	lb	*15900	*15900	*22820	15630	*15410	8110	*11050	5250	*7910	4060	(23.9)
-3.0 m	kg	*11320	*11320	*8600	7270	*5960	3760			*3290	2570	6.02
-10.0 ft	lb	*24960	*24960	*18960	16030	*13140	8290			*7250	5670	(19.8)

· Boom : 5.10m(16' 9") , · Arm : 2.60m(8' 6") · Bucket : 0.76m³(0.99yd³) SAE heaped · Rear dozer blade down with 2750kg(6060lb) CWT

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach
														m (ft)
7.5 m 25.0 ft	kg lb											*3070 *6770	2560 5640	6.58 (21.6)
6.0 m 20.0 ft	kg lb							*2980 *6570	2920 6440			*3070 *6770	1860 4100	7.71 (25.3)
4.5m 15.0 ft	kg lb							*3570 *7870	2830 6240			*3130 *6900	1530 3370	8.36 (27.4)
3.0 m 10.0 ft	kg lb			*7970 *17570	*7970 *17570	*5150 *11350	4290 9460	*4090 *9020	2670 5890	*2730 *6020	1780 3920	3150 6940	1380 3040	8.67 (28.4)
1.5 m 5.0 ft	kg lb			*7190 *15850	*7190 *15850	*6360 *14020	3920 8640	*4660 *10270	2500 5510	*3400 *7500	1700 3750	3110 6860	1340 2950	8.66 (28.4)
Ground Line	kg lb			*7730 *17040	6980 15390	*7040 *15520	3690 8140	*5040 *11110	2370 5220	*2960 *6530	1650 3640	3280 7230	1410 3110	8.34 (27.4)
-1.5 m -5.0 ft	kg lb	*6760 *14900	*6760 *14900	*10570 *23300	6970 15370	*7050 *15540	3610 7960	*5040 *11110	2320 5110			*3450 *7610	1630 3590	7.67 (25.2)
-3.0 m -10.0 ft	kg lb	*9900 *21830	*9900 *21830	*9260 *20410	7110 15670	*6290 *13870	3650 8050	*4320 *9520	2360 5200			*3320 *7320	2200 4850	6.51 (21.4)
-4.5m -15.0 ft	kg lb			*6310 *13910	*6310 *13910									

· Boom : 5.10m(16' 9") , · Arm : 3.10m(11' 1") · Bucket : 0.76m³(0.99yd³) SAE heaped · Rear dozer blade down with 2750kg(6060lb) CWT

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach
														m (ft)
7.5 m 25.0 ft	kg lb											*2730 *6020	2210 4870	7.15 (23.5)
6.0 m 20.0 ft	kg lb							*2750 *6060	*2750 *6060			*2770 *6110	1640 3620	8.19 (26.9)
4.5m 15.0 ft	kg lb							*3180 *7010	2860 6310	*2120 *4670	1850 4080	*2840 *6260	1370 3020	8.80 (28.9)
3.0 m 10.0 ft	kg lb			*6670 *14700	*6670 *14700	*4600 *10140	4380 9660	*3750 *8270	2690 5930	*2970 *6550	1780 3920	2890 6370	1230 2710	9.09 (29.8)
1.5 m 5.0 ft	kg lb			*9920 *21870	7470 16470	*5920 *13050	3960 8730	*4380 *9660	2500 5510	*3610 *7960	1680 3700	2850 6280	1190 2620	9.08 (29.8)
Ground Line	kg lb	*4120 *9080	*4120 *9080	*8310 *18320	6970 15370	*6810 *15010	3680 8110	*4870 *10740	2340 5160	3800 8380	1610 3550	2980 6570	1240 2730	8.78 (28.8)
-1.5 m -5.0 ft	kg lb	*6330 *13960	*6330 *13960	*10140 *22350	6870 15150	*7040 *15520	3550 7830	*5020 *11070	2260 4980			*3270 *7210	1420 3130	8.15 (26.7)
-3.0 m -10.0 ft	kg lb	*8880 *19580	*8880 *19580	*9900 *21830	6950 15320	*6570 *14480	3550 7830	*4630 *10210	2270 5000			*3280 *7230	1840 4060	7.09 (23.3)
-4.5m -15.0 ft	kg lb	*12300 *27120	*12300 *27120	*7530 *16600	7210 15900	*5010 *11050	3700 8160							

NOTES

1. Lifting capacity is based on SAE J1097 and 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 located on the back of the bucket.
4. (*) indicates load limited by hydraulic capacity.













Lifting Capacities

Lifting capacities R170w-7A Mono boom














· Boom : 5.10m(16' 9") , · Arm : 2.20m(7' 3") · Bucket : 0.76m³(0.99yd³) SAE heaped · Rear dozer blade up with 2750kg(6060lb) CWT

Load point height m(ft)		Load radius								At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		Capacity		Reach
												m (ft)
7.5 m	kg									*3380	2510	6.09
25.0 ft	lb									*7450	5530	(20.0)
6.0 m	kg							*3150	2460	3320	1740	7.32
20.0 ft	lb							*6940	5420	7320	3840	(24.0)
4.5m	kg					*4420	3950	*3880	2400	2780	1400	8.01
15.0 ft	lb					*9740	8710	*8550	5290	6130	3090	(26.3)
3.0 m	kg			*9080	6590	*5600	3600	*4370	2260	2550	1250	8.33
10.0 ft	lb			*20020	14530	*12350	7940	*9630	4980	5620	2760	(27.3)
1.5 m	kg					*6690	3270	4220	2110	2510	1210	8.32
5.0 ft	lb					*14750	7210	9300	4650	5530	2670	(27.3)
Ground Line	kg			*7220	5720	6510	3090	4100	2010	2660	1290	7.99
	lb			*15920	12610	14350	6810	9040	4430	5860	2840	(26.2)
-1.5 m	kg	*7210	*7210	*10350	5780	6460	3050	4060	1980	3100	1530	7.28
-5.0 ft	lb	*15900	*15900	*22820	12740	14240	6720	8950	4370	6830	3370	(23.9)
-3.0 m	kg	*11320	*11320	*8600	5940	*5960	3130			*3290	2160	6.02
-10.0 ft	lb	*24960	*24960	*18960	13100	*13140	6900			*7250	4760	(19.8)

· Boom : 5.10m(16' 9") , · Arm : 2.60m(8' 6") · Bucket : 0.76m³(0.99yd³) SAE heaped · Rear dozer blade up with 2750kg(6060lb) CWT

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach
														m (ft)
7.5 m 25.0 ft	kg lb											*3070 *6770	2200 4850	6.58 (21.6)
6.0 m 20.0 ft	kg lb							*2980 *6570	2500 5510			3030 6680	1560 3440	7.71 (25.3)
4.5m 15.0 ft	kg lb							*3570 *7870	2420 5340			2570 5670	1270 2800	8.36 (27.4)
3.0 m 10.0 ft	kg lb			*7970 *17570	6860 15120	*5150 *11350	3640 8020	*4090 *9020	2260 4980	*2730 *6020	1480 3260	2360 5200	1130 2490	8.67 (28.4)
1.5 m 5.0 ft	kg lb			*7190 *15850	5940 13100	*6360 *14020	3280 7230	4210 9280	2090 4610	2910 6420	1410 3110	2320 5110	1090 2400	8.66 (28.4)
Ground Line	kg lb			*7730 *17040	5670 12500	6480 14290	3060 6750	4060 8950	1970 4340	2850 6280	1350 2980	2440 5380	1150 2540	8.34 (27.4)
-1.5 m -5.0 ft	kg lb	*6760 *14900	*6760 *14900	*10570 *23300	5660 12480	6380 14070	2980 6570	4000 8820	1910 4210			2800 6170	1340 2950	7.67 (25.2)
-3.0 m -10.0 ft	kg lb	*9900 *21830	*9900 *21830	*9260 *20410	5790 12760	*6290 *13870	3030 6680	4050 8930	1960 4320			*3320 *7320	1830 4030	6.51 (21.4)
-4.5m -15.0 ft	kg lb			*6310 *13910	6090 13430									

· Boom : 5.10m(16' 9") , · Arm : 3.10m(11' 1") · Bucket : 0.76m³(0.99yd³) SAE heaped · Rear dozer blade up with 2750kg(6060lb) CWT











Load point height m(ft)		Load radius										At max. reach			
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach	
															m (ft)
7.5 m 25.0 ft	kg lb												*2730 *6020	1880 4140	7.15 (23.5)
6.0 m 20.0 ft	kg lb							*2750 *6060	2540 5600				2720 6000	1380 3040	8.19 (26.9)
4.5m 15.0 ft	kg lb							*3180 *7010	2450 5400	*2120 *4670	1550 3420	2330 5140	1120 2470	8.80 (28.9)	
3.0 m 10.0 ft	kg lb			*6670 *14700	*6670 *14700	*4600 *10140	3720 8200	*3750 *8270	2280 5030	*2970 *6550	1480 3260	2150 4740	1000 2200	9.09 (29.8)	
1.5 m 5.0 ft	kg lb			*9920 *21870	6120 13490	*5920 *13050	3320 7320	4210 9280	2090 4610	2890 6370	1390 3060	2110 4650	960 2120	9.08 (29.8)	
Ground Line	kg lb	*4120 *9080	*4120 *9080	*8310 *18320	5650 12460	6480 14290	3050 6720	4040 8910	1940 4280	2810 6190	1310 2890	2200 4850	1000 2200	8.78 (28.8)	
-1.5 m -5.0 ft	kg lb	*6330 *13960	*6330 *13960	*10140 *22350	5560 12260	6330 13960	2920 6440	3950 8710	1860 4100			2490 5490	1150 2540	8.15 (26.7)	
-3.0 m -10.0 ft	kg lb	*8880 *19580	*8880 *19580	*9900 *21830	5630 12410	6330 13960	2930 6460	3950 8710	1860 4100			3160 6970	1520 3350	7.09 (23.3)	
-4.5m -15.0 ft	kg lb	*12300 *27120	*12300 *27120	*7530 *16600	5870 12940	*5010 *11050	3070 6770								

NOTES 1. Lifting capacity is based on SAE J1097 and 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 located on the back of the bucket.
4. (*) indicates load limited by hydraulic capacity.

Lifting capacities R170w-7A Hydraulic adjustable boom











· Boom : 5.10m(16' 9") , · Arm : 2.20m(7' 3") · Bucket : 0.76m³(0.99yd³) SAE heaped · Rear dozer blade down with 2750kg(6060lb) CWT

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach
														m (ft)
6.0 m 20.0 ft	kg lb											*3390 *7470	1990 4390	7.39 (24.2)
4.5m 15.0 ft	kg lb							*3920 *8640	2810 6190			*3370 *7430	1620 3570	8.08 (26.5)
3.0 m 10.0 ft	kg lb					*5630 *12410	4240 9350	*4370 *9630	2660 5860			3370 7430	1460 3220	8.39 (27.5)
1.5 m 5.0 ft	kg lb					*6640 *14640	3870 8530	*4830 *10650	2490 5490	*3240 *7140	1700 3750	3340 7360	1430 3150	8.38 (27.5)
Ground Line	kg lb			*6390 *14090	*6390 *14090	*7070 *15590	3670 8090	*5070 *11180	2380 5250			*3430 *7560	1520 3350	8.05 (26.4)
-1.5 m -5.0 ft	kg lb	*6490 *14310	*6490 *14310	*10000 *22050	7040 15520	*6810 *15010	3640 8020	*4870 *10740	2350 5180			*3310 *7300	1800 3970	7.35 (24.1)
-3.0 m -10.0 ft	kg lb			*8110 *17880	7250 15980	*5680 *12520	3740 8250					*2800 *6170	2520 5560	6.11 (20.0)

· Boom : 5.10m(16' 9") , · Arm : 2.60m(8' 6") · Bucket : 0.76m³(0.99yd³) SAE heaped · Rear dozer blade down with 2750kg(6060lb) CWT

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach
														m (ft)
6.0 m	kg											*3120	1790	7.81
20.0 ft	lb											*6880	3950	(25.6)
4.5m	kg											*3120	1470	8.45
15.0 ft	lb											*6880	3240	(27.7)
3.0 m	kg							*4110	2660	*3100	1760	3120	1330	8.75
10.0 ft	lb							*9060	5860	*6830	3880	6880	2930	(28.7)
1.5 m	kg			*6240	*6240	*6330	3890	*4630	2480	*3760	1680	3090	1290	8.74
5.0 ft	lb			*13760	*13760	*13960	8580	*10210	5470	*8290	3700	6810	2840	(28.7)
Ground	kg			*6970	6900	*6940	3640	*4970	2340	*3510	1620	*3240	1370	8.43
Line	lb			*15370	15210	*15300	8020	*10960	5160	*7740	3570	*7140	3020	(27.7)
-1.5 m	kg	*6170	*6170	*9940	6910	*6880	3570	*4920	2290			*3190	1590	7.77
-5.0 ft	lb	*13600	*13600	*21910	15230	*15170	7870	*10850	5050			*7030	3510	(25.5)
-3.0 m	kg	*9510	*9510	*8830	7080	*6040	3630	*4120	2350			*2890	2140	6.63
-10.0 ft	lb	*20970	*20970	*19470	15610	*13320	8000	*9080	5180			*6370	4720	(21.8)
-4.5 m	kg			*5650	*5850	*3580	*3580							
-15.0 ft	lb			*12460	*12460	*7890	*7890							

· Boom : 5.10m(16' 9") , · Arm : 2.20m(7' 3") · Bucket : 0.76m³(0.99yd³) SAE heaped · Rear dozer blade up with 2750kg(6060lb) CWT

Load point height m(ft)		Load radius										At max. reach		
		1.5 m(5.0 ft)		3.0 m(10.0 ft)		4.5 m(15.0 ft)		6.0 m(20.0 ft)		7.5 m(25.0 ft)		Capacity		Reach
														m (ft)
6.0 m 20.0 ft	kg lb											3270 7210	1670 3680	7.39 (24.2)
4.5m 15.0 ft	kg lb							*3920 *8640	2390 5270			2740 6040	1340 2950	8.08 (26.5)
3.0 m 10.0 ft	kg lb					*5630 *12410	3570 7870	*4370 *9630	2230 4920			2510 5530	1200 2650	8.39 (27.5)
1.5 m 5.0 ft	kg lb					*6640 *14640	3220 7100	4230 9330	2070 4560	2940 6480	1400 3090	2480 5470	1170 2580	8.38 (27.5)
Ground Line	kg lb			*6390 *14090	5630 12410	6520 14370	3030 6680	4110 9060	1970 4340			2640 5820	1240 2730	8.05 (26.4)
-1.5 m -5.0 ft	kg lb	*6490 *14310	*6490 *14310	*10000 *22050	5700 12570	6480 14290	3000 6610	4080 8990	1940 4280			3080 6790	1490 3280	7.35 (24.1)
-3.0 m -10.0 ft	kg lb			*8110 *17880	5900 13010	*5680 *12520	3090 6810					*2800 *6170	2110 4650	6.11 (20.0)