











Specifications

ENGINE

MODEL			MITSUBISHI D04FD-TAA	
Туре			Water cooled, 4 cycle Diesel, 4-Cylinders in line, direct injection, turbocharged, charged air cooled and low emission	
D-4I	SAE	J1995 (gross)	119 HP (89 kW) / 2,000 rpm	
Rated flywheel	SAE	J1349 (net)	113 HP (85 kW) / 2,000 rpm	
horse power	DIN	6271/1 (gross)	121 PS (89 kW) / 2,000 rpm	
noise power		6271/1 (net)	115 PS (85 kW) / 2,000 rpm	
Max. torque			45.4 kgf.m (328 lbf.ft) / 1,700 rpm	
Bore x stroke			102 x 130 mm (4.0" x 5.1")	
Piston displacement			4,250cc (260 in³)	
Batteries			2 X 12V X 80AH	
Starting motor			24V - 5.0 kW	
Alternator			24V - 50 Amp	

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Two variable displacement piston pumps
Max. flow	2 X 130 l/min (34.3 US gpm / 28.6 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump	system
HYDRAULIC MOTORS	
Travel	Two speed axial piston motor
iravei	with brake valve and parking brake
Swing	Axial piston motor with automatic brake
RELIEF VALVE SETTING	
Implement circuits	350 kgf/cm² (4,980 psi)
Travel	350 kgf/cm² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,410 psi)
Swing circuit	285 kgf/cm² (4,050 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed
HYDRAULIC CYLINDERS	
	Boom: 105 X 1,105 mm (4.1" X 43.5")
No. of cylinder-	Arm: 115 X 1,138 mm (4.5" X 44.8")
bore x stroke	Bucket: 100 X 840 mm (3.9" X 33.1")
	Blade: 100 X 260 mm (3.9" X 10.2")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	13,300 kgf (29,321 lbf)
Max. travel speed (high) / (low)	5.5 km/hr (3.4 mph) / 3.2 km/hr (2.0 mph)
Gradeability	30° (58 %)
Parking brake	Multi wet disc

CONTROL

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

	Two joysticks with one safety lever
Pilot control	(LH): Swing and arm,
	(RH): Boom and bucket (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type

SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing circuit lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	12 rpm

COOLANT & LUBRICANT CAPACITY

Refilling	liter	US gal	UK gal
Fuel tank	232	61.3	51.0
Engine coolant	14.5	3.8	3.2
Engine oil	17.5	4.6	3.8
Swing device - gear oil	2.5	0.7	0.5
Final drive (each) - gear oil	3.6	1.0	0.8
Hydraulic system (including tank)	180	47.6	39.6
Hydraulic tank	96	25.4	21.1

UNDERCARRIAGE

The 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 springs and sprockets, and a track chain with double or triple grouser shoes.

Center frame	X - leg type		
Track frame	Pentagonal box type		
No. of shoes on each side		47EA	
No. of carrier rollers on each side	R145LCR-9	2 EA	
No. of track rollers on each side	K145LCK-9	7 EA	
No. of rail guards on each side		2 EA	

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 4,600 mm (15' 1") boom; 2,500 mm (8' 2") arm; SAE heaped $0.52m^3$ (0.68 yd 3) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT Upperstructure 6,950 kg (15,320 lb) Counterweight 2,800 kg (6,170 lb) 4.6 m (15' 1") mono boom (with arm cylinder) 1,030 kg (2,270 lb)

OPERAT	ING WEIGH	T		
Shoes			Operating weight	Ground pressure
Туре	1	Nidth mm (in)	kg (lb)	kgf/cm² (psi)
Triple grouser	500 (20")	R145LCR-9	14,785 (32,600)	0.47 (6.68)
		R145LCR-9 (Dozer type)	15,585 (34,360)	0.49 (6.97)
	600 (24")	R145LCR-9	14,980 (33,020)	0.40 (5.69)
		R145LCR-9 (Dozer type)	15,800 (34,830)	0.42 (5.97)
	700 (20")	R145LCR-9	15,215 (33,540)	0.34 (4.83)
	700 (28")	R145LCR-9 (Dozer type)	16,035 (35,350)	0.36 (5.12)





















ATTACHMENT

Booms and arms are welded, a low-stress, full-box section design. 4.60 m (15' 1") boom and 1.90 m (6′ 3″); 2.10 m (6′ 11″); 2.50 m (8′ 2″); 3.00 m (9′ 10″) arms are available.

DIGGING FORCE

Boom	Length	mm (ft.in)	4,600 (15′ 1″)
воот	Weight	kg (lb)	1,030 (2,270)
Arm	Length	mm (ft.in)	2,500 (8' 2")
Ann	Weight	kg (lb)	610 (1,340)
		kN	87.3 [94.8]
ь .	SAE	kgf	8,900 [9,660]
Bucket		lbf	19,620 [21,300]
digging force		kN	102 [110.8]
Torce	ISO	kgf	10,400 [11,290]
		lbf	22,930 [24,890]
		kN	62.8 [68.2]
	SAE	kgf	6,400 [6,950]
Arm		lbf	14,110 [15,320]
crowd force		kN	65.7 [71.4]
Torce	ISO	kgf	6,700 [7,270]
		lbf	14,770 [16,040]

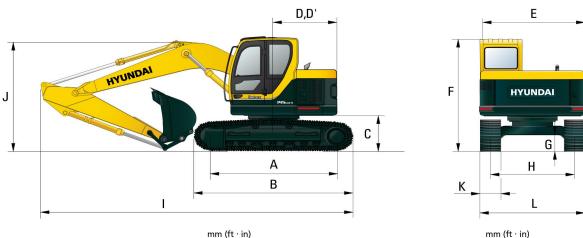
Note: Boom weight includes arm cylinder, piping, and pin Arm weight includes bucket cylinder, linkage, and pin





Dimensions & Working Ranges

DIMENSIONS R145LCR-9



mm (ft · in)	mm (ft · in
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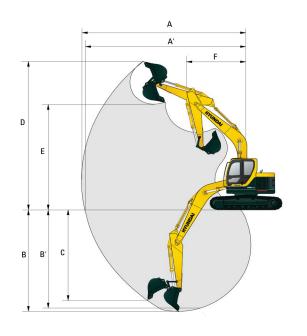
Α	Tumbler distance	3,090 (10' 2")
В	Overall length of crawler	3,820 (12' 6")
c	Ground clearance of counterweight	930 (3′ 1″)
D	Tail swing radius	1,480 (4′ 10″)
D'	Rear-end length	1,480 (4′ 10″)
E	Overall width of upperstructure	2,500 (8′ 2″)
F	Overall height of cab	2,900 (9' 6")
G	Min. ground clearance	440 (1′ 5″)
Н	Track gauge	2,000 (6′ 7″)

	Boom length	4,600 (15′ 1″)	
	Arm length	2,500 (8′ 2″)	
1	Overall length	7,360 (24′ 2″)	
J	Overall height of boom	2,860 (9' 5")	

K Track shoe width	600 (24")
L Overall width	2,600 (8′ 6″)

WORKING RANGE R145LCR-9

mm (ft \cdot in)



			DOMESTIC STATE
	Boom length	4,600 (15′ 1″)	
	Arm length	2,500 (8′ 2″)	
A	Max. digging reach	8,310 (27′ 3″)	
A'	Max. digging reach on ground	8,170 (26′ 10″)	
В	Max. digging depth	5,500 (18′ 1″)	
B'	Max. digging depth (8' level)	5,290 (17′ 4″)	
c	Max. vertical wall digging depth	5,000 (16′ 5″)	
D	Max. digging height	9,350 (30′ 8″)	
E	Max. dumping height	6,850 (22′ 6″)	
F	Min. front swing radius	1,980 (6' 6")	





Lifting Capacities

R145LCR-9

Rating over-front Rating over-side or 360 degrees

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 (2		20.0 ft) Cap		city	Reach		
												m (ft)
6.0 m	kg					*2960	*2960			*2910	1720	6.50
(20.0 ft)	lb					*6530	*6530			*6420	3790	(21.3)
4.5 m	kg					*3460	3350	*2670	1960	2360	1300	7.37
(15.0 ft)	lb					*7630	7390	*5890	4320	5200	2870	(24.2)
3.0 m	kg			*6090	*6090	*4480	3130	3320	1880	2080	1110	7.81
(10.0 ft)	lb			*13430	*13430	*9880	6900	7320	4140	4590	2450	(25.6)
1.5 m	kg			*8480	5450	5180	2850	3190	1760	2000	1050	7.90
(5.0 ft)	lb			*18700	12020	11420	6280	7030	3880	4410	2310	(25.9)
Ground	kg			*9170	4990	4930	2630	3070	1650	2070	1080	7.67
Line	lb			*20220	11000	10870	5800	6770	3640	4560	2380	(25.2)
-1.5 m	kg	*5850	*5850	*8700	4890	4810	2530	3020	1600	2370	1260	7.07
(-5.0 ft)	lb	*12900	*12900	*19180	10780	10600	5580	6660	3530	5220	2780	(23.2)
-3.0 m	kg	*8930	*8930	*7030	4970	*4770	2550			*2400	1730	5.97
(-10.0 ft)	lb	*19690	*19690	*15500	10960	*10520	5620			*5290	3810	(19.6)
-4.5 m	kg			*3750	*3750							
(-15.0 ft)	lb l			*8270	*8270							

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





STANDARD EQUIPMENT

ISO	Stand	ard	cabin

All-weather steel cab with 360° visibility

Safety glass windows

Rise-up type windshield wiper

Sliding fold-in front window

Sliding side window

One key fits all lockable doors

Hot & cool box

Storage compartment & Ashtray

Transparent cabin roof-cover

Radio MP3 Player with AUX-input

Handsfree mobile phone system with USB-charging device Sun visor

Computer aided power optimization (New CAPO) system

3-power modes, 3-work modes, User mode

Auto & one-touch deceleration system

Auto warm-up system

Overheat prevention system

Automatic temperature control Air conditioner & heater

Defroster

Self-diagnostics system

Starting Aid (air grid heater) for cold weather

Centralized monitoring

LCD-display

Engine speed or Trip meter

Clock

Gauges

- Fuel level gauge

- Engine coolant temperature gauge
- Hyd. oil temperature gauge

Warning lamps

- Engine warning
- Communication error
- Low battery
- Air filter clogging

Indicators

- Max power
- Fuel warmer
- Auto deceleration

Door and cab locks, one key

Two outside rearview mirrors

Mechanical suspension seat with heater Adjustable joysticks

Console box height adjust system

Four front working lights

Electric horn

Batteries (2 x 12 V x 80 AH)

Battery master switch

Removable clean-out screen for oil cooler

Automatic swing brake

Removable reservoir tank

Fuel pre-filter with fuel warmer

Boom holding system

Arm holding system

Counterweight (2,800 kg; 6,170 lb)

Track shoes (500 mm; 20")

Track rail guard

Accumulator for lowering work equipment

Electric transducer

Lower frame under cover

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards. All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT



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