



Building a better future

Global Leader

Dolex

NEW 7A SERIES

WHEELED EXCAVATOR Applied Tier III Engine

170W-7A

We build a better future



 **HYUNDAI**
HEAVY INDUSTRIES CO., LTD.

■ Photo may include optional equipment.

Specifications



Engine

Model		Mitsubishi D04FD-TAA	
Type		Water cooled, 4 cycle Diesel, 4-Cylinders in line, direct injection, turbocharged, charged air cooled	
Rated flywheel horse power	SAE	J1995 (gross)	126 HP (94 kW) at 2,000 rpm
		J1349 (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		477 Nm (345 lbf.ft) at 1,800 rpm	
Bore x stroke		102 x 130 mm (4.02" x 5.12")	
Piston		4,249 cc (259 in ³)	
Batteries		2 x 12 V x 100 AH	
Starting motor		24 V - 5.0 kW	
Alternator		24 V - 50 Amp	



Hydraulic system

Main pump		
Type	Two variable displacement piston pumps	
Max. flow	2x168 l/min (44.4 US gpm / 37 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 and parking brake	
Swing	Axial piston motor with automatic brake	
Relief valve setting		
Implement circuits	330 kgf/cm ² (4,690 psi)	
Travel	330 kgf/cm ² (4,690 psi)	
Power boost (boom, arm, bucket)	360 kgf/cm ² (5,120 psi)	
Swing circuit	240 kgf/cm ² (3,410 psi)	
Pilot circuit	40 kgf/cm ² (570 psi)	
Service valve	Installed	
Hydraulic cylinders		
Boom :	2-115 x 80 x 1090 mm (4.5" x 3.1" x 42.9")	
Arm :	1-120 x 85 x 1340 mm (4.7" x 3.3" x 52.8")	
No. of cylinder - bore x rod x stroke	Bucket :	1-115 x 80 x 950 mm (4.5" x 3.1" x 37.4")
	Blade :	2-110 x 75 x 235 mm (4.3" x 3.0" x 9.3")
	Outtrigger :	2-125 x 75 x 475 mm (4.9" x 3.0" x 18.7")
	2-PCS 1st :	2-115 x 80 x 960 mm (4.5" x 3.1" x 37.8")
2nd :	1-160 x 95 x 650 mm (6.3" x 3.7" x 25.6")	



Drives & Brakes

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

Max. drawbar pull	110 kN (24,300 lbf)	
Travel speed	1st (forward) / (reverse)	9.5 (5.9)
	2nd (forward) / (reverse)	30 (18.6)
Gradeability	30° (58 %)	

Parking brake : Independent dual brake, front and rear axle full hydraulic power brake.
 - Full hydraulic applied wet type multiple disc brake.
 - Transmission is locked at neutral position for parking, automatically.



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)
Engine throttle	Electric, Accel dial switch
External Lights	One light mounted on the boom, one below the cab, one in the tool box



Axle & Wheel

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)
(optional)	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	Multi wet disc (pin lock type)
Swing speed	11.0 rpm



Steering System

Hydraulically actuated, orbitrol 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	260.0	68.7	57.2
Engine coolant	28	7.4	6.2
Engine oil	17.5	4.6	3.8
Swing device-gear oil	5.0	1.3	1.1
Axle	(front)	15.5	4.1
	(rear)	17.5	4.6
Hydraulic system(including tank)	240.0	63.4	52.8
Hydraulic tank	160.0	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.
Outtrigger	Indicated for max. operation stability when digging and lifting. Can be mounted on the front/or the rear.



Operating Weight (approximate)

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

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

Operating weight

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

※ Standard equipment

