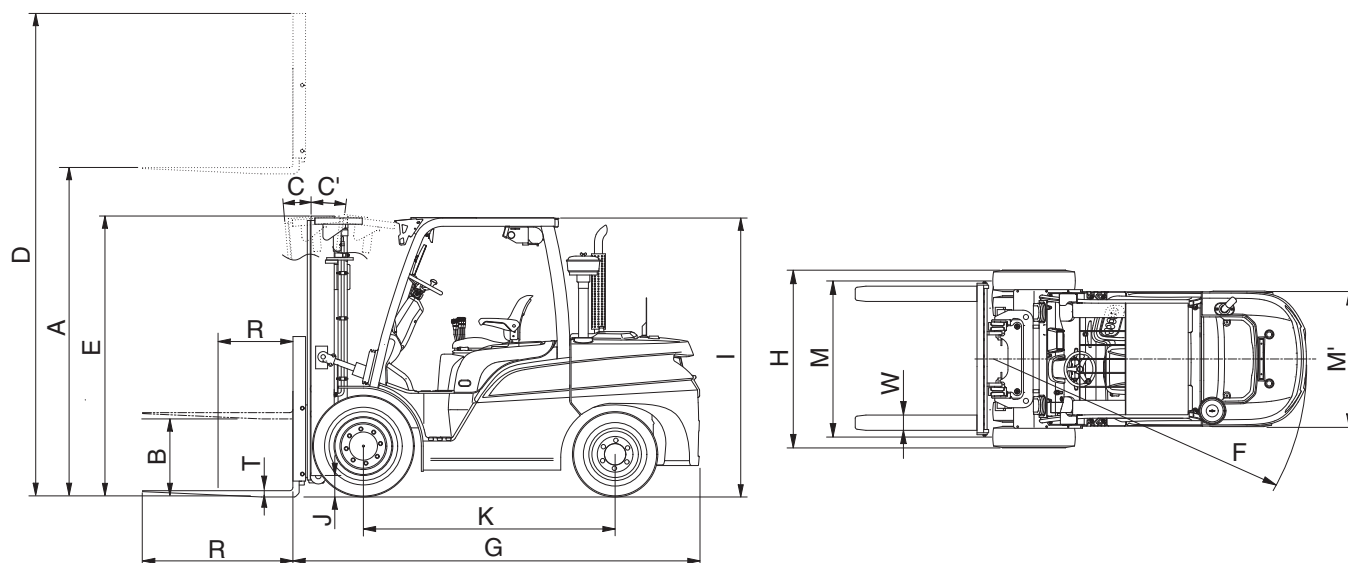


8. SPECIFICATIONS

1. SPECIFICATION TABLE



35D9SSP01

Model			Unit	35D-9S	40D-9S	45D-9S	50D-9SA
Capacity			kg (lb)	3500 (8000)	4000 (9000)	4500 (10000)	5000 (11000)
Load center	R		mm (in)	600 (24")	←	←	←
Weight (Unloaded)			kg	5790	6190	6650	7195
Fork	Lifting height	A	mm (ft·in)	3020 (9' 11")	←	←	2930 (9' 7")
	Free lift	B	mm (in)	120 (4.7")	←	←	←
	Lifting speed (Unload/Load)		mm/sec	570/550	570/540	570/530	490/460
	Lowering speed (Unload/Load)		mm/sec	500/500	←	←	←
	L × W × T	L, W, T	mm (in)	1070 × 122 × 50 (42 × 4.8 × 2)	1070 × 150 × 50 (42 × 5.9 × 2)	1220 × 150 × 50 (48 × 5.9 × 2)	1200 × 150 × 60 (47 × 5.9 × 2.4)
Mast	Tilt angle (forward/backward)	C/C'	degree	8/10	←	←	←
	Max height	D	mm (ft·in)	4236 (13' 11")	←	4235 (13' 11")	4246 (13' 11")
	Min height	E	mm (ft·in)	2235 (7' 4")	2220 (7' 3")	2220 (7' 3")	2200 (7' 3")
Body	Travel speed (Unload)		km/h	27	27	26	26
	Gradeability (Load)		%	42	36	35	32
	Min turning radius (Outside)	F	mm (ft·in)	2868 (9' 5")	2915 (9' 7")	2965 (9' 9")	3004 (9' 10")
ETC	Operating pressure		kgf/cm ²	210	←	←	←
	Hydraulic oil tank		l	66	←	←	←
	Fuel tank		l	100	←	←	←
Overall length			G	mm (ft·in)	3100 (10' 2")	3155 (10' 4")	3250 (10' 8")
Overall width			H	mm (ft·in)	1370 (4' 6")	1720 (5' 8")	1740 (5' 9")
Overhead guard height			I	mm (ft·in)	2220 (7' 3")	←	←
Ground clearance			J	mm (in)	170 (6.7")	155 (6.1")	←
Wheel base			K	mm (ft·in)	2000 (6' 7")	←	←
Wheel tread front/rear			M/M'	mm (ft·in)	1282/1140 (4' 2 2/3' 9")	1120/1140 (3' 8 3/8' 9")	1282/1140 (4' 2 2/3' 9")

2. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item	Unit	Specification
Model	-	HYUNDAI D4DD
Type	-	4 cycle turbocharged diesel type
Cooling Method	-	Water cooling
Number of cylinders and arrangement	-	4 cylinders, In-line
Firing order	-	1-3-4-2
Combustion chamber type	-	Direct injection
Cylinder bore X stroke	mm (in)	104 × 115 (4.1 × 4.5)
Piston displacement	cc (cu in)	3907 (238)
Compression ratio	-	17.5 : 1
Rated gross horse power	hp/rpm	95/2300
Maximum torque at rpm	kgf · m/rpm	35/1600
Engine oil quantity	l (U.S.gal)	8.5 (2.2)
Dry weight	kg (lb)	353 (778)
High idling speed	rpm	2500 ± 50
Low idling speed	rpm	800 ± 50
Rated fuel consumption	g/ps.hr	140.2 (at 1700 rpm)
Starting motor	V-kW	24-5
Alternator	V-A	24-50
Battery	V-AH	24-75
Fan belt deflection	mm (in)	10~15 (0.39~0.59)

2) MAIN PUMP

Item	Unit	Specification
Type	-	Fixed displacement gear pump
Capacity	cc/rev	50
Maximum operating pressure	bar	250
Rated speed (Max/Min)	rpm	3000/600

3) MAIN CONTROL VALVE

Item	Unit	Specification
Type	-	Sectional
Operating method	-	Mechanical
Main relief valve pressure	bar	210/150
Flow capacity	lpm	125

(4) POWER TRAIN DEVICES

Item		Specification	
Torque converter	Model	DE 280 (KAPEC)	
	Type	3 Element, 1 stage, 2 phase	
	Stall ratio	2.25 : 1	
Transmission	Type	Power shift	
	Gear shift(FWD/REV)	2/2	
	Control	Electrical single lever type	
	Overhaul ratio	FWD	1st : 2.550 2nd : 1.218
		REV	1st : 2.550 2nd : 1.218
Axle	Type	Front-wheel drive type, fixed location	
	Gear ratio	11.692	
Wheels	Q'ty(FR/RR)		Single : 2/2 Double : 4/2
	Front(drive)	Single	3.5 ton : 8.25-15-14 PR 4.0/4.5 ton : 300-15-18 PR
		Double	7.5-16-12 PR
	Rear(steer)		3.5~4.5 ton : 7.0-12-12 PR 5 ton : 7.0-12-14 PR
Brakes	Travel	Front wheel, wet disk brake	
	Parking	Ratchet, drum brake	
Steering	Type	Full hydraulic, power steering	
	Steering angle	74.8° to both right and left angle, respectively	

3. TIGHTENING TORQUE

NO	Item		Size	kgf · m	lbf · ft
1	Engine	Engine mounting bolt, nut	M16×2.0	7.5	54
2		Radiator mounting bolt, nut	M10×1.5	6.9±1.4	50±10
3	Hydraulic system	MCV mounting bolt, nut	M14×2.0	19.6±2.9	142±21
4		Steering unit mounting bolt	M10×1.5	6.9±1.4	50±10
5		Hydraulic pump mounting bolt	M14×1.5	19.6±1.3	142±10
6		Transmission mounting bolt, nut	M10×1.5	6.9±1.4	50±10
7	Power train system	Torque converter mounting bolt	M10×1.5	6.9±1.4	50±10
8		Drive axle mounting bolt, nut	M22×2.5	77.4±11.6	560±84
9		Steering axle mounting bolt, nut	M14×2.0	19.6±2.9	142±21
10		Front wheel mounting nut	M22×1.5	61.2±9.2	448±67
11		Rear wheel mounting nut	M20×1.5	60.0±5.0	434±36
12	Others	Counterweight mounting bolt	M30×3.5	120±15	1555±239
13		Operator's seat mounting nut	M 8×1.25	2.5±0.5	18.1±3.6
14		Head guard mounting bolt	M12×1.75	12.8±3.0	93±22