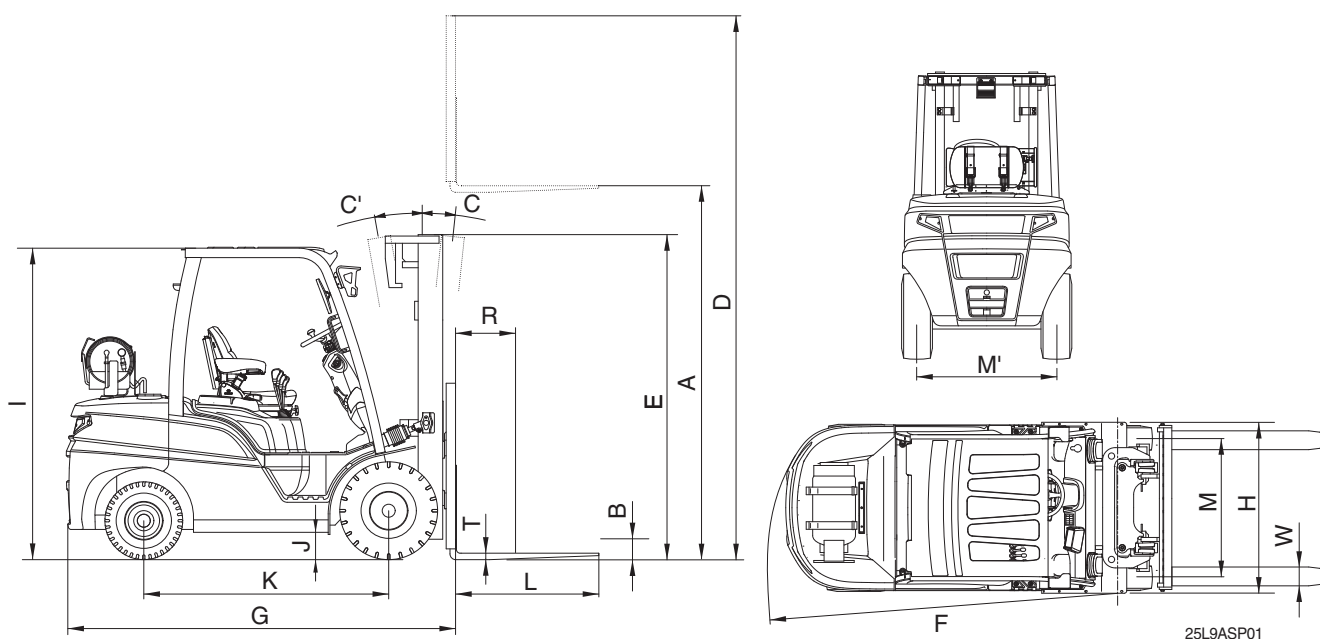


9. SPECIFICATIONS

1. SPECIFICATION TABLE



Model			Unit	25L-9A	30L-9A	33L-9A	35LN-9A
Capacity			kg (lb)	2500 (5000)	3000 (6000)	3300 (6500)	3500 (7000)
Load center		R	mm (in)	500 (24")	←	←	←
Weight (Unloaded)			kg(lb)	3888 (8570)	4282 (9440)	4395 (9690)	4535 (10000)
Fork	Lifting height	A	mm (ft-in)	3305 (10' 10")	←	←	←
	Free lift	B	mm (in)	155 (6.1")	←	←	150 (5.9")
	Lifting speed (Unload/Load)	Non-booster	mm/sec	640/560	530/470	530/460	—
		Booster	mm/sec	590/580	590/570	480/460	480/450
	Lowering speed (Unload/Load)		mm/sec	450/500	←	←	←
Mast	L×W×T	L,W,T	mm (inch)	1050×100×45 (41.3×3.9×1.7)	1050×122×45 (41.3×4.8×1.7)	←	←
	Tilt angle (forward/backward)	C/C'	degree	6/10	←	←	←
	Max height	D	mm (ft-in)	4485 (14' 9")	←	←	←
Body	Min height	E	mm (ft-in)	2175 (7' 2")	2190 (7' 2")	2260 (7' 5")	←
	Travel speed (Unload)		km/h	18.0	18.9	←	←
	Gradeability (Load)		%	35.2	28.3	26	24.9
ETC	Min turning radius (Outside)	F	mm	2342 (7' 8")	2413 (7' 11")	2463 (8' 1")	←
	Hyd operating pressure		kgf/cm ² (psi)	200 (2845)	←	←	←
	Hydraulic oil tank		l (usgal)	36 (9.5)	38 (10.0)	←	←
Overall length	Fuel tank		l (usgal)	15 (4.0)	←	←	←
		G	mm (ft-in)	2607 (8' 7")	2676 (8' 9")	2732 (9' 0")	2579 (9' 1")
		H	mm (ft-in)	1200 (3' 11")	1228 (4' 0")	←	←
Overhead guard height		I	mm (ft-in)	2160 (7' 1")	2180 (7' 2")	←	←
Ground clearance		J	mm (ft-in)	130 (5.1")	145 (5.7")	←	←
Wheel base		K	mm (ft-in)	1650 (5' 5")	1700 (5' 7")	←	←
Wheel tread front/rear		M, M'	mm (ft-in)	999/980 (3' 3"/3' 2")	1005/980 (3' 4"/3' 2")	←	←

2. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item	Unit	Specification
Model	-	HYUNDAI, L4KB [Theta]
Type	-	4-cycle, vertical
Cooling Method	-	Water cooled
Number of cylinders and arrangement	-	4 cylinders, In line
Firing order	-	1-3-4-2
Cylinder bore X stroke	mm (in)	88 × 97 (3.46 × 3.82)
Piston displacement	cc (cu in)	2359 (143.95)
Compression ratio	-	10.5
Rated gross horse power	ps/rpm	60/2300
Maximum gross torque at rpm	kgf · m/rpm	16.3/1600
Engine oil quantity	ℓ (U.S.gal)	5.7 (1.5)
Dry weight	kg(lb)	160 (352)
High idling speed	rpm	2700
Low idling speed	rpm	800
Rated fuel consumption	g/ps.hr	-
Starting motor	V-kW	12 - 1.2
Alternator	V-A	12 - 75
Battery	V-AH	12 - 60
Fan belt deflection	mm (in)	10~15 (0.4~0.6)

2) MAIN PUMP

Item	Unit	Specification
Type	-	Gear
Capacity	cc/rev	27.7 (25/30L-9A) 30.6 (33L-9A, 35LN-9A)
Maximum operating pressure	bar	250
Rated speed (Max/Min)	rpm	2700/500

3) MAIN CONTROL VALVE

Item	Unit	Specification
Type	-	Sectional
Operating method	-	Mechanical
Relief valve pressure (Main/Aux)	bar	220/165
Flow capacity	lpm	95

4) STEERING UNIT

Item	Unit	Specification
Type	–	Load sensing/Non load reaction/Dynamic signal
Capacity	cc/rev	120
Max. input pressure	Mpa	22.7
Back pressure	Mpa	2
Input torque	N.m	1.5 ± 0.2

5) POWER TRAIN DEVICES

Item			Specification
Torque converter	Model		KAPEC 280DB / ★280DK
	Type		3 Element, 1 stage, 2 phase
	Stall ratio		2.9 : 1
Transmission	Type		Power shift
	Gear shift (FR/RR)		1/1
	Adjustment		Electrical single lever / ★Solenoid On/Off type
	Overhaul ratio	FWD	1.308 : 1 / ★1.4375 : 1
		REV	1.308 : 1 / ★1.4375 : 1
Axle	Type		Front-wheel drive type
	Gear ratio		14.2 : 1 / ★11.568 : 1
	Gear		Ring & pinion gear type
Wheels	Q'ty (FR/RR)		Single : 2/2, Double : 4/2
	Front (drive)	2.5 (-#0245)	Single : 7.00-12-14 PR Double : 6.00-15.10 PR
		3.0 (-#0227)	Single : 28 × 9-15-14 PR Double : 6.00-15.10 PR
		3.3 (-#0054)	
		3.5 (-#0085)	
	Rear (steer)	2.5 (-#0245)	Single : 6.50-10-14 PR
		3.0 (-#0227)	
		3.3 (-#0054)	
		3.5 (-#0085)	
	Front (drive)	2.5 (#0246-)	Single : 7.00-12-12 PR Double : 6.00-15.10 PR
		3.0 (#0228-)	Single : 8.15-15-14 PR Double : 6.00-15.10 PR
		3.3 (#0055-)	
		3.5 (#0086-)	
	Rear (steer)	2.5 (#0246-)	Single : 6.50-10-12 PR
		3.0 (#0228-)	
		3.3 (#0055-)	
		3.5 (#0086-)	
Brakes	Travel		Front wheel, wet disk brake
	Parking		Ratchet, wet disk brake
Steering	Type		Hydro static, power steering
	Steering angle		79° to both right and left angle, respectively

★ : Option

3. TIGHTENING TORQUE

NO	Items		Size	kgf · m	lbf · ft
1	Engine	Engine mounting nut	M10 × 1.5	6.9 ± 1.4	49.9 ± 10.1
2		Engine bracket mounting bolt	M12 × 1.25	12.5 ± 2.5	90 ± 18
3		Radiator mounting bolt, nut	M 8 × 1.25	2.5 ± 0.5	18.1 ± 3.6
4		Torque converter mounting bolt	M10 × 1.25	7.4 ± 1.5	53.5 ± 10.8
5	Hydraulic system	Main pump mounting bolt	M10 × 1.5	5.3	38.3
6		MCV mounting bolt, nut	M10 × 1.5	4.0 ± 0.5	29 ± 3.6
7		Steering unit mounting bolt	M10 × 1.5	4.0 ± 0.5	29 ± 3.6
8	Power train system	Transmission mounting bolt, nut	M16 × 2.0	7.5	54
9		Drive axle mounting bolt, nut	M20 × 1.5	65 ± 3	470 ± 21.6
10		Drive shaft mounting bolt	-	7.4 ± 1.5	53.5 ± 10.8
11		Steering axle mounting bolt, nut	M20 × 2.5	58 ± 8.5	420 ± 61
12		Front wheel mounting nut	M20 × 1.5	40 ± 10	289 ± 72
13		Rear wheel mounting nut	M14 × 1.5	18 ± 2	130 ± 14
14	Others	Counterweight mounting bolt	M30 × 3.5	199 ± 29.9	1439 ± 216
15		Operator's seat mounting nut	M 8 × 1.25	2.5 ± 0.5	18.1 ± 3.6
16		Head guard mounting bolt	M12 × 1.75	12.8 ± 3.0	92.6 ± 21.7
17		Cabin mounting bolt	M12 × 1.75	12.8 ± 3.0	92.6 ± 21.7
18		Trunnion cap mounting blot	M16 × 2.0	35.6 ± 7.1	257 ± 51.4