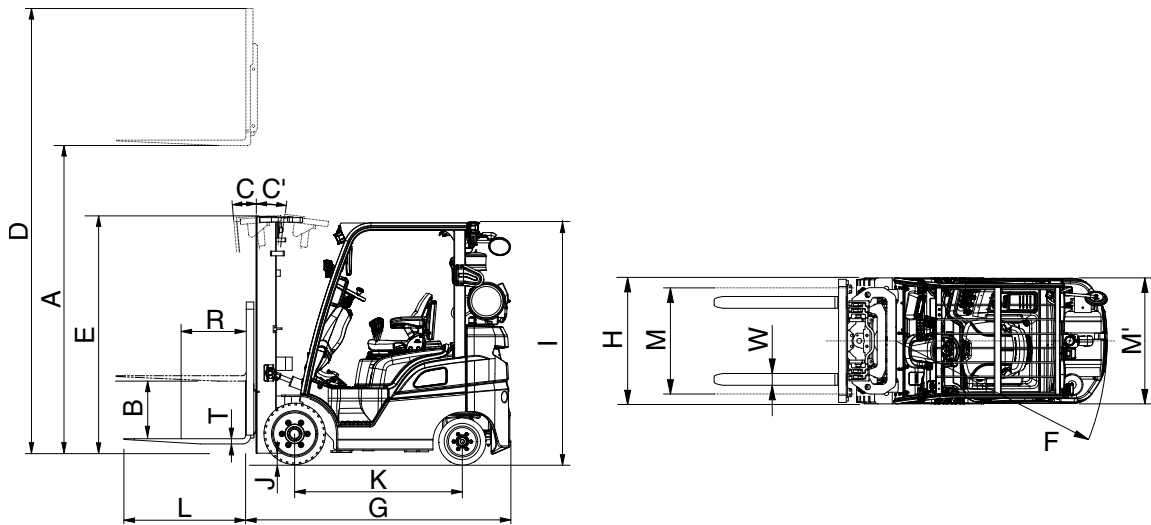


9. SPECIFICATIONS

1. SPECIFICATION TABLE



25LC99SP01

Model			Unit	25LC-9	30LC-9	33LC-9
Capacity			kg (lb)	2267 (5000)	2722 (6000)	2950 (6500)
Load center		R	mm (in)	610 (24")	←	←
Weight (Unloaded)			kg (lb)	3779 (8331)	4157 (9165)	4404 (9709)
Fork	Lifting height	A	mm (ft·in)	3300 (10' 10")	←	←
	Free lift	B	mm (in)	155 (6.1")	←	←
	Lifting speed (Unload/Load)		mm/sec (ft/min)	570/550 (112/108)	←	460/445 (91/88)
	Lowering speed (Unload/Load)		mm/sec (ft/min)	570/570 (112/112)	←	475/475 (94/94)
	L×W×T	L,W,T	mm (in)	1050×100×45 (41×3.9×1.8)	1050×122×45 (41×4.8×1.8)	←
Mast	Tilt angle (forward/backward)	C/C'	degree	6/10	←	←
	Max height	D	mm (ft·in)	4480 (14' 8")	←	←
	Min height	E	mm (ft·in)	2135 (7' 0")	←	←
Body	Travel speed (Unload/Load)		km/h (mph)	15.7/14.9 (9.8/9.3)	15.5/14.9 (9.6/9.3)	15.4/14.8 (9.6/9.2)
	Max gradeability (Unload/Load)		%	42.8/19.4	36.4/16.4	33.4/15.2
	Min turning radius (Outside)	F	mm (ft·in)	2035 (6' 8")	2085 (6' 10")	2113 (6' 11")
Length to face of forks		G	mm (ft·in)	2280 (7' 6")	2340 (7' 8")	2385 (7' 10")
Overall width		H	mm (ft·in)	1065 (3' 6")	1110 (3' 8")	←
Overhead guard height		I	mm (ft·in)	2080 (6' 10")	←	←
Ground clearance		J	mm (in)	90 (3.5")	←	←
Wheel base		K	mm (ft·in)	1448 (4' 9")	←	←
Wheel tread front/rear		M/M'	mm (ft·in)	892/910 (2' 11"/3' 0")	907/910 (3' 0"/3' 0")	—
Max drawbar pull (Unload/Load)			kg (lb)	6047/6069 (13331/13380)	6023/6021 (13278/13274)	6014/6010 (13258/13250)

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	50/2450
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	-	External gear pump
Capacity	cc/rev (in ³ /rev)	27.2 (1.66)
Maximum operating pressure	bar (psi)	276 (4000)
Rated speed (Max/Min)	rpm	3000/500
Weight	kgf (lbf)	6 (13.2)

3) MAIN CONTROL VALVE

Item	Unit	Specification	
Type	-	Mono-block (3spool / 4spool)	
Operating method	-	Manual (hand lever)	
Maximum flow rated (Lift/Tilt)	lpm (US. gpm)	76/30 (20/8)	
Main relief valve set pressure (DV1)	bar (psi)	205 (2975)	★175 (2540)
Attachment oil flow rated (Aux1/2/)	lpm (US. gpm)	55/55 (14.5/14.5)	
Attachment relief valve pressure (DV2)	bar (psi)	140~180 (2030~2610)	
Weight	kgf (lbf)	3spool : 11 (24), 4spool : 13 (29)	

★ : EU, AN corporate sales equipment (25LC-9)

4) STEERING UNIT

Item	Unit	Specification
Type	-	Hydrostatic power or fully hydraulic power
Circuit	-	Load sensing, Non-load reaction
Capacity	cc/rev (in ³ /rev)	125 (7.63)
Steering relief valve set pressure	bar (psi)	110 (1595)
Weight	kgf (lbf)	5.5 (12)

5) PRIORITY VALVE

Item	Unit	Specification
Type	—	Load sensing, dynamic signal
Rated input flow	lpm (US.gpm)	76 (20)
Maximum inlet and EF pressure	bar (psi)	280 (4060)
Maximum CF, LS pressure	bar (psi)	240 (3480)
Weight	kgf (lbf)	1.2 (2.6)

6) POWER TRAIN DEVICES

Item			Specification
Torque converter	Type		3 Element, 1 stage, 2 phase
	Stall ratio		3.0 : 1
Transmission	Type		Power shift
	Gear shift (FWD/REV)		1/1
	Overhaul ratio	FWD	1.437 : 1
		REV	1.437 : 1
Axle	Type		Front-wheel drive type
	Gear ratio		11.568
	Gear		Ring and pinion gear type
Wheels	Q'ty (FR/RR)		Single : 2/2
	Front (drive)	25LC-9	21 × 7 × 15
		30/33LC-9	21 × 8 × 15
	Rear (steer)		16 × 6 × 10 1/2
Brakes	Service		Front wheel, wet disk brake
	Parking		Electric switch, wet disk brake
Steering	Type		Full hydraulic, power steering
	Steering angle		80.79° to both right and left angle, respectively

7) CYLINDER

Index			Unit	Specification	
				Tube bore diameter × Rod diameter × Stroke	Weight
25/30LC-9	V330	Main lift	mm (in) / kgf (lbf)	50×40×1630 (1.97×1.57×64.2)	31 (68)
	TF470	Main lift		50×40×1522 (1.97×1.57×60)	36 (79)
		Free lift		75×50×808 (2.95×1.97×31.8)	31 (68)
33LC-9	V330	Main lift		55×45×1630 (2.17×1.77×64.2)	36 (79)
	TF470	Main lift		55×45×1522 (2.17×1.77×59.9)	39 (86)
		Free lift		85×60×808 (3.35×2.36×31.8)	42 (93)
Tilt (6/10 degree)				75×35×112 (2.95×1.38×4.4)	21 (46)
Steering				75×50×86 (2.95×1.97×3.39)	17 (37)

3. TIGHTENING TORQUE

NO	Item		Size	kgf · m	lbf · ft
1	Engine	Engine mounting bolt	M10×1.5	6.9±1.4	49.9±10.1
2		Engine bracket mounting nut	M12×1.25	12.5±2.5	90±18
3		Radiator mounting bolt, nut	M8×1.25	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±0.5	38.3±3.6
6		MCV mounting bolt	M8×1.25	2.5±0.5	18.1±3.6
7		Steering unit mounting bolt	M10×1.5	4.0±0.5	28.9±3.6
8		Tilt cylinder; rod-end bolt, nut	M12×1.75	9.5±0.5	68±13.7
9		Tilt cylinder pin; mounting bolt	M10×1.5	4.0±1.5	28.9±3.6
10	Power train system	Transmission mounting bolt, nut	M16×2.0	7.5	54
11		Drive axle mounting bolt, nut	M20×1.5	65±3	470±21.6
12		Steering axle mounting bolt, nut	M20×2.5	58±8.5	420±61
13		Front wheel mounting nut	M20×1.5	47±5	340±36
14		Rear wheel mounting nut	M16×1.5	25±2	181±14
15	Others	Counterweight mounting bolt	M30×3.5	100±15	723±108
16		Operator's seat mounting nut	M8×1.25	2.5±0.5	18.1±3.6
17		Head guard mounting bolt	M12×1.75	12.8±3.0	92.6±21.7