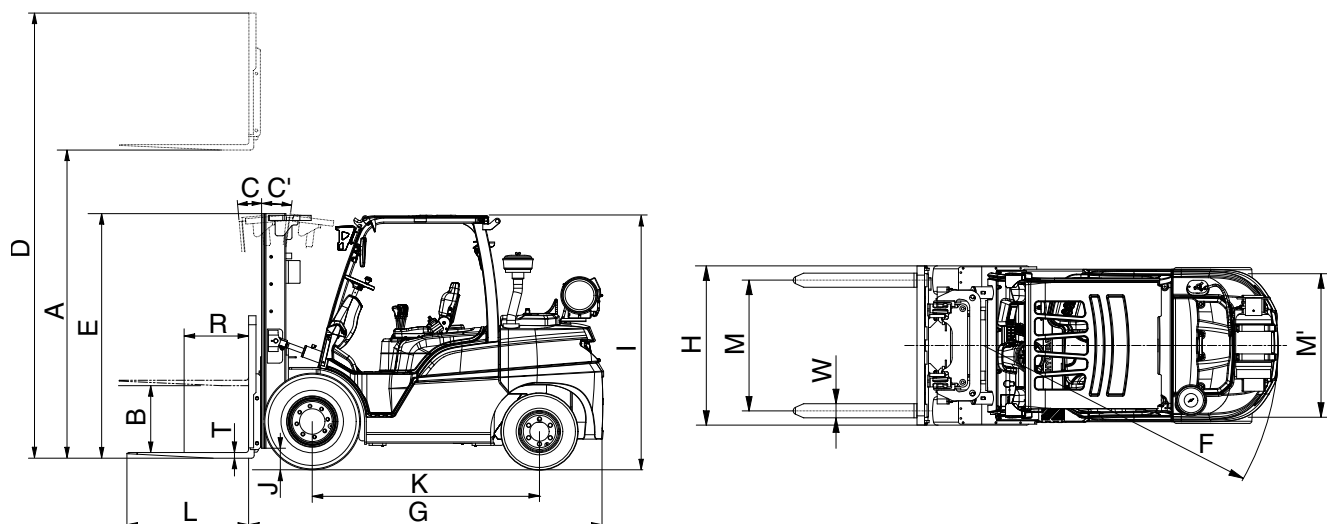


9. SPECIFICATIONS

1. SPECIFICATION TABLE



35L98SP01

Model			Unit	35L-9	40L-9	45L-9	50L-9
Capacity			kg (lb)	3500 (8000)	4000 (9000)	4500 (10000)	5000 (11000)
Load center		R	mm (in)	600 (24")	←	←	←
Weight (Unloaded)			kg (lb)	5801 (12789)	6348 (13995)	6690 (14749)	7103 (15659)
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 (ft/min)	530/510 (104/100)	←	←	460/440 (91/87)
	Lowering speed (Unload/Load)		mm/sec (ft/min)	550/550 (109/109)	←	←	500/550 99/109
	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)	4234 (13' 11")	←	←	4147 (13' 7")
	Min height	E	mm (ft·in)	2235 (7' 4")	2220 (7' 3")	←	←
Body	Travel speed (Unload/Load)		km/h (mph)	30.7/28.4 (19.1/17.6)	29.9/28.1 (18.6/17.5)	29.8/27.8 (18.5/17.3)	29.7/27.5 (18.5/17.1)
	Max gradeability (Unload/Load)		%	25/40.1	24/35.4	24.3/32.5	23.2/30.0
	Min turning radius (Outside)	F	mm (ft·in)	2867 (9' 5")	2916 (9' 7")	3010 (9' 11")	3052 (10' 0")
ETC	System set pressure		bar (psi)	★175 (2540) 210 (3050)	★195 (2830) 210 (3050)	210 (3050)	←
Length to face of forks		G	mm (ft·in)	3110 (10' 2")	3165 (10' 5")	3283 (10' 9")	3347 (11' 0")
Overall width		H	mm (ft·in)	1370 (4' 6")	1740 (5' 9")	←	←
Overhead guard height		I	mm (ft·in)	2210 (7' 3")	←	←	←
Overhead guard height (opt, high)		I	mm (ft·in)	2340 (7' 8")	←	←	←
Ground clearance		J	mm (in)	170 (6.7")	155 (6.1")	←	←
Wheel base		K	mm (ft·in)	2000 (6' 7")	←	2100 (6' 11")	←
Wheel tread front/rear		M/M'	mm (ft·in)	1132/1140 (3' 9"/3' 9")	1282/1140 (4' 2"/3' 9")	←	←
Max drawbar pull (Unload/Load)			kg (lb)	3670/3849 (8091/8486)	3753/3840 (8274/8646)	3752/3849 (8272/8486)	3741/3856 (8247/8501)

★ : EU, AN corporate sales equipment

2. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item		Unit	Specification
Model		-	Kubota / WG3800
Type		-	4 cycle, in-line, EU Stage V, EPA (CARB)
Cooling method		-	Water cooling
Number of cylinders and arrangement		-	4 cylinders, In-line
Ignition system		-	Full transistor battery ignition type
Cylinder bore × stroke		mm (in)	Ø100 × 120 (3.93 × 4.72)
Piston displacement		cc (cu in)	3769 (229.9)
Compression ratio		-	10.0 :1
Rated gross horse power		kW/rpm	68.5/2450
Maximum torque at rpm		kgf-m/rpm	30/1200
Engine oil quantity		ℓ (U.S. gal)	12.2 (3.22)
Dry weight		kg (lb)	268 (591)
High idling speed		rpm	2450
Low idling speed		rpm	850
Starter		V-kW	12-2.5
Alternator		V-kW	12-1.2
Battery		V-AH	12-55
Fan belt deflection		mm (in)	10~12 (0.39~0.47)
CO ₂	Non-road steady-state test cycle	g/kWh	Fuel A : 782.3, Fuel B : 766.2
	Non-road transient-state test cycle		Fuel A : 850.5, Fuel B : 830.7

※ This CO₂ measurement results from testing over a fixed test cycle under laboratory conditions a(n) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine.

※ Fuel A : 30% propane + 70% butane, Fuel B : 85% propane + 15% butane

2) MAIN PUMP

Item		Unit	Specification
Type		-	Fixed displacement gear pump
Capacity		cc/rev (in ³ /rev)	46.1 (2.81)
Maximum operating pressure		bar (psi)	250 (3625)
Drive		-	Directly connected to the transmission (PTO ratio 1:1)
Weight		kgf (lbf)	9.1 (20)

3) MAIN CONTROL VALVE

Item	Unit	Specification	
Type	-	Mono-block (3spool / 4spool / 5spool)	
Operating method	-	Manual (hand lever)	
Maximum flow rated (Lift/Tilt)	lpm (US. gpm)	110/40 (29/11)	
Main relief valve set pressure (DV1)	bar (psi)	210 (3050)	
		★35L-9 : 175 (2540)	★40L-9 : 195 (2830)
Attachment oil flow rated (Aux1/2/3)	lpm (US. gpm)	60/60/60 (16/16/16)	
Attachment relief valve pressure (DV2)	bar (psi)	140~189 (2030~2740)	
Weight	kgf (lbf)	3spool : 11 (24), 4spool : 13 (29), 5spool : 15 (33)	

★ : EU, AN corporate sales equipment

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)
Weight	kgf (lbf)	5.5 (12)

5) PRIORITY VALVE

Item	Unit	Specification
Type	—	Load sensing, dynamic signal
Rated input flow	lpm (US.gpm)	150 (40)
Max. inlet and EF Pressure	bar (psi)	310 (4500)
Max. CF Pressure	bar (psi)	276 (4000)
Weight	kgf (lbf)	6 (13)

6) POWER TRAIN DEVICES

Item			Specification	
Torque converter	Model		AEROSPACE	
	Type		3 Element, 1 stage, 2 phase	
	Stall ratio		2.21 : 1	
Transmission	Type		Power shift	
	Gear shift(FWD/REV)		2/1	
	Control		Electrical single lever type	
	Overhaul ratio	FWD	1st : 2.667	2nd : 1.024
		REV	1.838	
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	8.25-15-14 PR	
		Double	7.50-16-12 PR	
	Rear(steer)		7.00-12-14 PR	
Brakes	Travel		Front wheel, wet disk brake	
	Parking		SAHR (Spring Actuate Hydraulic Release) type	
Steering	Type		Full hydraulic, power steering	
	Steering angle		74.8° to both right and left angle, respectively	
	Relief valve presssure		135 bar (1960 psi)	

3. TIGHTENING TORQUE

NO	Item		Size	kgf · m	lbf · ft
1	Engine	Engine mounting bolt	M12×1.25	6.9±1.4	49.9±10.1
2		Engine bracket mounting nut	M10×1.5	6.9±1.4	49.9±10.1
3		Radiator mounting bolt, nut	M10×1.5	6.9±1.4	49.9±10.1
4	Hydraulic system	Hydraulic pump mounting bolt	M14×1.5	7.0±0.5	51±3.6
5		MCV mounting bolt	M 8×1.25	2.5±0.5	18.1±3.6
6		Steering unit mounting bolt	M10×1.5	4.0±0.5	28.9±3.6
7		Priority valve mounting bolt, nut	M 8×1.25	2.5±0.5	18.1±3.6
8		Tilt cylinder; rod-end bolt, nut	M14×2.0	15±1.5	147±14
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±1.5	54.2±10.8
11		Torque converter mounting bolt	M10×1.5	6.9±1.4	50±10
12		Drive axle mounting bolt, nut	M24×2.0	62.5±9.5	452±68.7
13		Drive shaft mounting bolt	3/8-24 UNF	7.0±0.7	50.6±5.1
14		Steering axle mounting bolt, nut	M14×2.0	19.6±2.9	142±21
15		Front wheel mounting nut	M22×1.5	62.0±9.3	448±67.3
16		Rear wheel mounting nut	M22×1.5	62.0±9.3	448±67.3
17	Others	Counterweight mounting bolt	M30×3.5	100±15	723±108
18		Operator's seat mounting nut	M 8×1.25	2.5±0.5	18.1±3.6
19		Head guard mounting bolt	M12×1.75	12.8±3.0	92.6±21.7
20		Cabin mounting bolt	M12×1.75	12.8±3.0	92.6±21.7