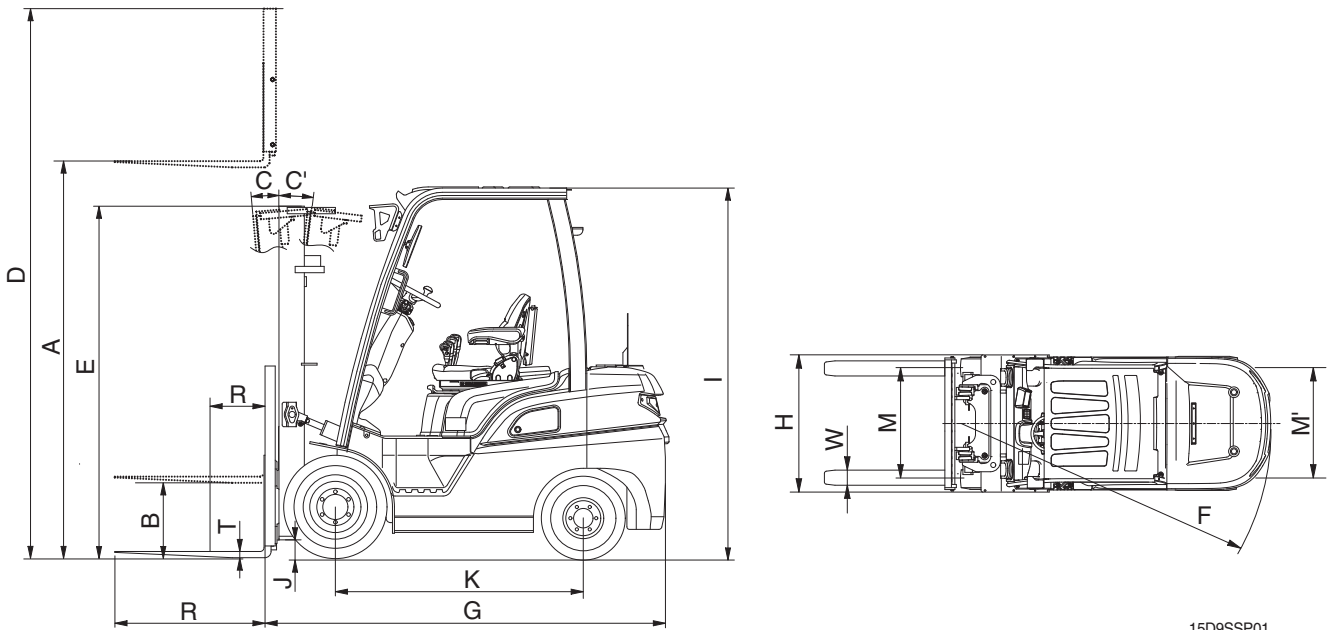


8. SPECIFICATIONS

1. SPECIFICATION TABLE



15D9SSP01

Model		Unit	15D-9S	18D-9S	20D-9S
Capacity		kg (lb)	1500 (3000)	1800 (3500)	2000 (4000)
Load center	R	mm (in)	500 (24")	←	←
Weight (Unloaded)		kg (lb)	2786 (6142)	2958 (6521)	3126 (6892)
Fork	Lifting height	A	mm (ft·in)	←	3035 (9' 11")
	Free lift	B	mm (in)	←	40 (1.6)
	Lifting speed (Unload/Load)		mm/sec	620/650	600/650
	Lowering speed (Unload/Load)		mm/sec	←	←
	L × W × T	L, W, T	mm (in)	←	900×100×40 (35.4×3.9×1.6)
Mast	Tilt angle (forward/backward)	C/C'	degree	6/10	←
	Max height	D	mm (ft·in)	4020 (13' 2")	4032 (13' 3")
	Min height	E	mm (ft·in)	←	←
Body	Travel speed (Unload)		km/h	19.0	19.1
	Gradeability (Load)		%	34.9	29.3
	Min turning radius (Outside)	F	mm (ft·in)	2030 (6' 8")	2065 (6' 9")
ETC	Operating pressure		kgf/cm ²	←	←
	Hydraulic oil tank		l (usgal)	←	←
	Fuel tank		l (usgal)	←	←
Overall length		G	mm (ft·in)	2224 (7' 4")	2289 (7' 6")
Overall width		H	mm (ft·in)	←	←
Overhead guard height		I	mm (ft·in)	←	←
Ground clearance		J	mm (in)	←	←
Wheel base		K	mm (ft·in)	←	←
Wheel tread front/rear		M/M'	mm (ft·in)	890/910 (2' 11"/3')	1005/980 (3' 4"/3' 3")

2. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item	Unit	Specification
Model	-	KUBOTA V2203-M-E3B
Type	-	4-cycle, in-line overhead valve
Cooling Method	-	Water cooling
Number of cylinders and arrangement	-	4 cylinders, in line
Firing order	-	1-3-4-2
Combustion chamber type	-	In direct injection
Cylinder bore X stroke	mm (in)	87 × 92.4 (3.4 × 3.6)
Piston displacement	cc (cu in)	2197 (134.1)
Compression ratio	-	22.6
Rated gross horse power	ps/rpm	41.9/2400
Maximum gross torque at rpm	kgf · m/rpm	14.3/1600
Engine oil quantity	l (U.S.gal)	9.5(2.5)
Dry weight	kg (lb)	211(465)
High idling speed	rpm	2600 ± 50
Low idling speed	rpm	850 ± 50
Rated fuel consumption	g/ps.hr	180
Starting motor	V-kW	DENSO12V, 2.0kW
Alternator	V-A	DENSO 12V, 40A
Battery	V-AH	12V, 75AH
Fan belt deflection	mm (in)	7~9 (0.28~0.35)

2) MAIN PUMP

Item	Unit	Specification
Type	-	Gear
Capacity	cc/rev	26
Maximum operating pressure	bar	250
Rated speed (Max/Min)	rpm	2700/500

3) MAIN CONTROL VALVE

Item	Unit	Specification
Type	-	Sectional
Operating method	-	Mechanical
Main relief valve pressure	kg/cm ²	190/150
Flow capacity	lpm	60

4) POWER TRAIN DEVICES

Item		Specification
Torque converter	Model	KAPEC 280 DB
	Type	3 Element, 1 stage, 2 phase
	Stall ratio	2.9 : 1
Transmission	Type	Full auto, power shift
	Gear shift (FR/RR)	1/1
	Control	Electrical single lever type, kick-down system
	Overhaul ratio	FR 1 : 1
		RR 1 : 1
Axle	Type	Front-wheel drive type, fixed location
	Gear ratio	14.2 : 1
	Gear	Ring & pinion gear type
Wheels	Q'ty (FR/RR)	2/2
	Front (drive)	6.50-10-14 PR
	Rear (steer)	5.00-8-8 PR
Brakes	Travel	Front wheel, wet disc brake
	Parking	Wet disk (negative brake)
Steering	Type	Hydro static, power steering
	Steering angle	80.8° to both right and left angle, respectively

3. TIGHTENING TORQUE

No.	Items		Size	kgf · m	lbf · ft
1	Engine	Engine mounting bolt, nut	M12 × 1.25	12.3 ± 2.4	89 ± 17.4
2		Radiator mounting bolt, nut	M 8 × 1.25	2.5 ± 0.5	18.1 ± 3.6
3		Torque converter mounting bolt	M10 × 1.25	6.9 ± 1.4	50 ± 10
4	Hydraulic system	MCV mounting bolt, nut	M10 × 1.5	4.0 ± 0.5	29 ± 3.6
5		Steering unit mounting bolt	M10 × 1.5	4.0 ± 0.5	29 ± 3.6
6	Power train system	Transmission mounting bolt, nut	M16 × 2.0	7.5	54
7		Drive axle mounting bolt, nut	M20 × 1.5	65 ± 3	470 ± 21.7
8		Steering axle mounting bolt, nut	M20 × 2.5	58 ± 8.5	420 ± 61
9		Front wheel mounting nut	M14 × 1.5	17.5 ± 1.5	127 ± 10.8
10		Rear wheel mounting nut	M12 × 1.5	10 ± 1	72 ± 7.2
11	Others	Counterweight mounting bolt	M30 × 3.5	60 ± 5	434 ± 36
12		Operator's seat mounting nut	M 8 × 1.25	2.5 ± 0.5	18.1 ± 3.6
13		Head guard mounting bolt	M12 × 1.75	6.2	44.8
14		Mast mounting bolt	M16 × 2.0	23.4 ± 3.5	169 ± 25.3