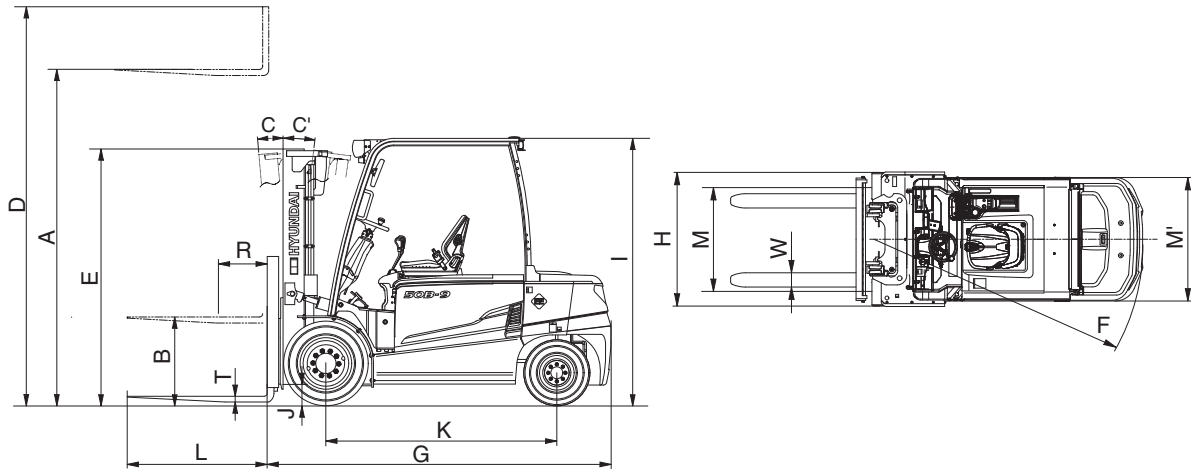


8. SPECIFICATIONS

1. SPECIFICATION



40B9SP01

Model		Unit	40B-9	45B-9	50B-9
Capacity		kg (lb)	4000 (9000)	4500 (10000)	4990 (11000)
Load center	R	mm (in)	500 (24")	←	←
Weight		kg (lb)	6855 (15110)	7345 (16190)	7805 (17210)
Fork	Lifting height	A	mm (ft-in)	←	2920 (9' 7")
	Free lift	B	mm (in)	←	←
	Lifting speed (Unload/Load)		mm/sec	520/360	450/320
	Lowering speed (Unload/Load)		mm/sec	←	420/500
	L × W × T	L, W, T	mm (inch)	1070 × 122 × 50 (42.1" × 4.8" × 2.0")	1070 × 150 × 50 (42.1" × 5.9" × 2.0")
Mast	Tilt angle forward/backward	C/C'	degree	6/10	←
	Max height	D	mm (ft-in)	←	4146 (13' 7")
	Min height	E	mm (ft-in)	←	2230 (7' 4")
Body	Travel speed (Unload)		km/h	18	←
	Gradeability (Load)		%	23	21
	Min turning radius (Outside)	F	mm	2670 (8' 9")	←
ETC	Max hydraulic pressure		kgf/cm ²	210	←
	Hydraulic oil tank		l (usgal)	45 (11.89)	←
Overall length		G	mm (ft-in)	←	3040 (10' 0")
Overall width		H	mm (ft-in)	←	1424 (4' 8")
Overhead guard height		I	mm (ft-in)	←	←
Ground clearance (Mast)		J	mm (in)	←	165 (6.5")
Wheel base		K	mm (ft-in)	←	←
Wheel tread (front/rear)		M/M'	mm (ft-in)	←	1114/1098 (3' 8"/3' 7")

2. SPECIFICATION FOR MAJOR COMPONENTS

1) CONTROLLER

Item	Unit	Traction	Pump
Model	-	ZAPI AC3 × 2	ZAPI AC3
Type	-	AC	←
Dimension	mm	300 × 250 × 177	←
Current limit	A	600 + 600	600
Communication	-	CAN	←

2) MOTOR

Item	Unit	Traction	Pump
Type	-	AQDU4001P	AMDV4001P
Rated voltage	Vac	50	50
Output	kW	10.0 × 2	28
Insulation	-	Class F	Class F

3) BATTERY

Item	Unit	40/45/50B-9
Rated voltage	V	80
Dimension (W × L × H)	mm	1025 × 996 × 784
Min. Battery weight	kg	2095
Max. Battery weight	kg	2435
Connector (CE spec)	-	SBE 320 (BLACK)

4) CHARGER

Item	Unit	Specification
Type	-	Constant current, constant voltage
Battery capacity for charge	V-AH	80V/700
AC input	V	Triple phase 410
		Single phase 220
		Triple phase 220/380
		Triple phase 440
DC output	V	64 ± 1
Charge time	hr	6 ± 2
Connector (CE spec)	-	SBE 320 (BLACK)

5) GEAR PUMP

Item	Unit	Specification
Type	-	Fixed displacement gear pump
Capacity	cc/rev	37
Maximum operating pressure	bar	220
Rated speed (max/min)	rpm	3000/500

6) MAIN CONTROL VALVE

Item	Unit	Specification
Type	-	3 spool, 4 spool
Operating method	-	Mechanical
Main relief valve pressure	bar	210
2nd relief valve pressure	bar	150

7) DRIVE AXLE UNIT

Item	Unit	Specification
Max axle load	kg/lb	6200/13670
Max input rpm	rpm	5000
Gear ratio	-	29
Weight without fluid	kg/lb	125 kg (276 lb)/EA
Oil quantity	l /U.S · qt	1.5 (1.6)

8) WHEELS

Item		Single	Double
Type (front/rear)		SOLID (OPT : NON-MARKING, PNEUMATIC)	
Quantity (front/rear)		2/2	4/2
Front-drive	40/45B-9	250 × 15-20PR	7.00 × 15-14PR
	50B-9	28 × 12.5-15 (24PR)	
Rear-steering		23 × 9-10 (18PR)	←

9) BRAKES & STEERING

Item		Specification
Brakes	Travel	Front wheel, Hydraulic, wet disc brake
	Parking	Mechanical
Steering	Type	Full hydraulic, power steering

3. TIGHTENING TORQUE

NO	Items		Size	kgf · m	lbf · ft
1	Electric system	Hyd pump motor mounting nut	M12 × 1.75	9.0 ± 1.0	65.1 ± 7.2
2		Traction motor mounting bolt	M14 × 2.0	20 ± 1.0	145 ± 7.2
3	Hydraulic system	Hydraulic pump mounting bolt	M12 × 1.75	12.8 ± 3	92.5 ± 21.5
4		MCV mounting bolt, nut	M10 × 1.5	6.9 ± 1.4	50 ± 10
5		Steering unit mounting bolt	M10 × 1.5	6.9 ± 1.4	50 ± 10
7		Brake cylinder mounting bolt	M10 × 1.5	8 ± 0.5	57.9 ± 3.6
9	Power train system	Drive unit mounting bolt, nut	M24 × 3.0	52.5 ± 2.5	380 ± 18.1
10		Steering axle mounting bolt, nut	M14 × 2.0	21 ± 2.0	152 ± 14.5
11		Front wheel mounting nut (single)	M20 × 1.5	47.5 ± 2.5	344 ± 18.1
12		Front wheel mounting nut (double)	M28 × 1.5	47.5 ± 2.5	344 ± 18.1
13		Fender	M10 × 1.5	7 ± 1	50.6 ± 7.2
14		Rear wheel mounting nut	M16 × 1.5	25 ± 2	181 ± 14.5
15	ETC	Counterweight mounting bolt	M24 × 3.0	100 ± 15	723 ± 108
16		Seat mounting nut	M 8 × 1.25	3.4 ± 0.7	24.6 ± 5.0
17		Head guard mounting bolt (front)	M12 × 1.75	12.8 ± 3	92.5 ± 21.5
18		Head guard mounting bolt (rear)	M16 × 2.0	29.7 ± 4.5	215 ± 32.5