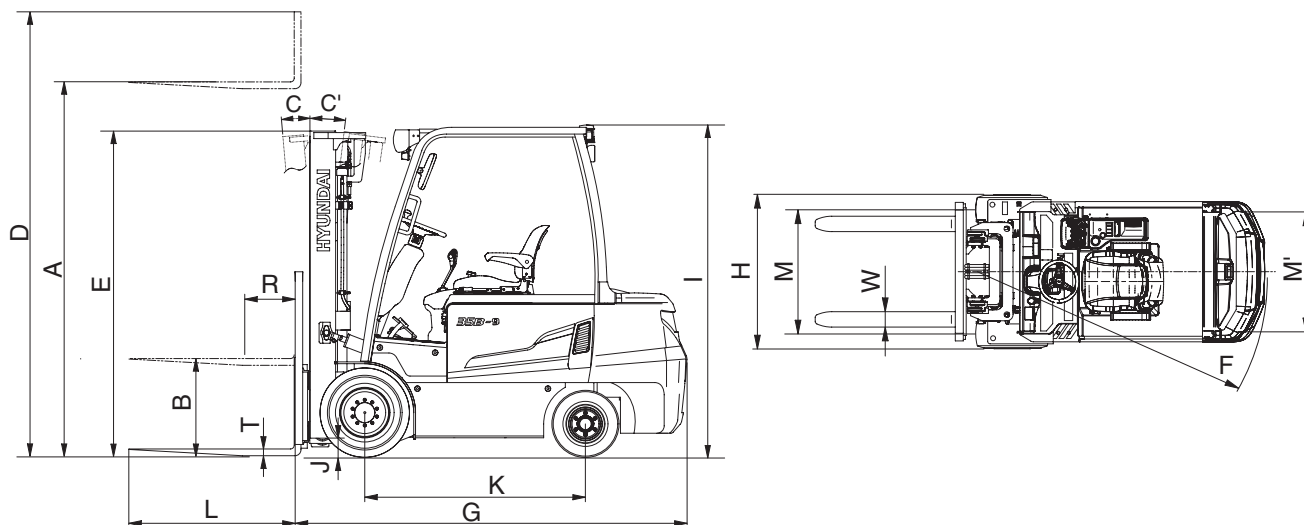


8. SPECIFICATIONS

1. SPECIFICATION



22B9SP01

Model			Unit	20BC-9	25BC-9	30BC-9	32BC-9
Capacity			kg (lb)	2000 (4000)	2500 (5000)	3000 (6000)	3200 (6500)
Load center	R		mm (in)	500 (24")	←	←	←
Weight			kg (lb)	4205 (9270)	4415 (9730)	4870 (10740)	5080 (11200)
Fork	Lifting height	A	mm (ft-in)	3300 (10' 10")	←	←	←
	Free lift	B	mm (in)	115 (4.5")	←	←	←
	Lifting speed (Unload/Load)		mm/sec	610/420	610/410	500/340	500/330
	Lowering speed (Unload/Load)		mm/sec	450/500	←	←	500/500
	L × W × T	L, W, T	mm (inch)	1050 × 100 × 45 (41" × 4" × 1.8")	←	1050 × 122 × 45 (41" × 4.8" × 1.8")	←
Mast	Tilt angle forward/backward	C/C'	degree	6/8	←	←	←
	Max height	D	mm (ft-in)	4485 (14' 9")	←	←	←
	Min height	E	mm (ft-in)	2135 (7' 0")	←	←	2205 (7' 3")
Body	Travel speed (Unload)		km/h	18	←	←	←
	Gradeability (Load)		%	24	20	18	17
	Min turning radius (Outside)	F	mm	1910 (6' 3")	1935 (6' 4")	2095 (6' 10")	←
ETC	Max hydraulic pressure		kgf/cm ²	190	←	←	←
	Hydraulic oil tank		l (usgal)	32.8 (8.6)	←	←	←
Overall length			G	mm (ft-in)	2150 (7' 1")	2205 (7' 3")	2345 (7' 8")
Overall width			H	mm (ft-in)	1110 (3' 8")	←	1118 (3' 8")
Overhead guard height			I	mm (ft-in)	2235 (7' 4")	←	←
Ground clearance (Mast)			J	mm (in)	90 (3.5")	←	←
Wheel base			K	mm (ft-in)	1290 (4' 3")	←	1400 (4' 7")
Wheel tread front			M	mm (ft-in)	890/910 (2' 11"/3' 0")	←	915/910 (3' 0"/3' 0")

2. SPECIFICATION FOR MAJOR COMPONENTS

1) CONTROLLER

Item	Unit	Traction	Pump
Model	-	ZAPI AC3	←
Type	-	DUAL AC 3	←
Dimension	mm	250×300×177	←
Current limit	A	600	←
Communication	-	CAN	←

2) MOTOR

Item	Unit	Traction	Pump
Type	-	ASDL 4001	AMDL 4001
Rated voltage	Vac	30	30
Output	kW	14	17
Insulation	-	Class F	Class F

3) BATTERY

Item	Unit	20/25BC-9	30/32BC-9
Rated voltage	V	48	←
Dimension (W×L×H)	mm	1007×766×597	1007×866×597
Min. Battery weight	kg	1130	1360
Max. Battery weight	kg	1400	1600
Connector (CE spec)	-	SB 350 or SR 350	

4) CHARGER

Item	Unit	20/25BC-9	30/32BC-9
Type	-	Constant current, constant voltage	
Battery capacity for charge	V-AH	48V/660~740	48V/845~850
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)	-	SB 350 or SR 350	

5) GEAR PUMP

Item	Unit	Specification	
Type	-	Fixed displacement gear pump	
Capacity	cc/rev	26.921	★27.2
Maximum operating pressure	bar	230	
Rated speed (max/min)	rpm	3000/500	

★ : Machine Serial No. 25BC-9 : #0547-, 30BC-9 : #0170-, 32BC-9 : #0079-

6) MAIN CONTROL VALVE

Item	Unit	Specification
Type	-	3 spool, 4 spool
Operating method	-	Mechanical
Main relief valve pressure	bar	190
2nd relief valve pressure	bar	130

7) DRIVE AXLE UNIT

Item	Unit	Specification
Max input torque	kgf·m	24
Max input rpm	rpm	3500
Gear ratio	—	15.348
Weight without fluid	kg/lb	252/556
Oil quantity	ℓ /U.S · qt	5.3/5.6

8) WHEELS

Item	20/25BC-9	30/32BC-9
Type (front/rear)	SOLID (OPT : NON-MARKING)	
Quantity (front/rear)	2/2	
Front-drive	21×7-15	21×8-15
Rear-steering	16×6×10.5	

9) BRAKES & STEERING

Item		Specification
Brakes	Travel	Front wheel, Hydraulic, drum 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	M 8 × 1.25	3.4 ± 0.7	24.6 ± 5.0
2		Traction motor mounting bolt	M12 × 1.75	10 ± 1.5	72.3 ± 10.8
3	Hydraulic system	Hydraulic pump mounting bolt	M10 × 1.5	6.9 ± 1.4	50 ± 10
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	M 8 × 1.25	8 ± 0.5	57.9 ± 3.6
9	Power train system	Drive axle mounting bolt, nut	M20 × 2.5	50.5 ± 2.5	365 ± 18.0
10		Steering axle mounting bolt, nut	M20 × 2.5	58 ± 3.0	419 ± 21.7
11		Front wheel mounting nut	M18 × 1.5	22.5 ± 1.5	170 ± 10.8
12		Rear wheel mounting nut	M24 × 2.0	32.5 ± 2.5	235 ± 18.0
13	ETC	Counterweight mounting bolt	M24 × 3.0	100 ± 15	723 ± 108
14		Seat mounting nut	M 8 × 1.25	3.4 ± 0.7	24.6 ± 5.0
15		Head guard mounting bolt (front)	M12 × 1.75	12.8 ± 3	92.5 ± 21.5
16		Head guard mounting bolt (rear)	M16 × 2.0	29.7 ± 4.5	215 ± 32.5