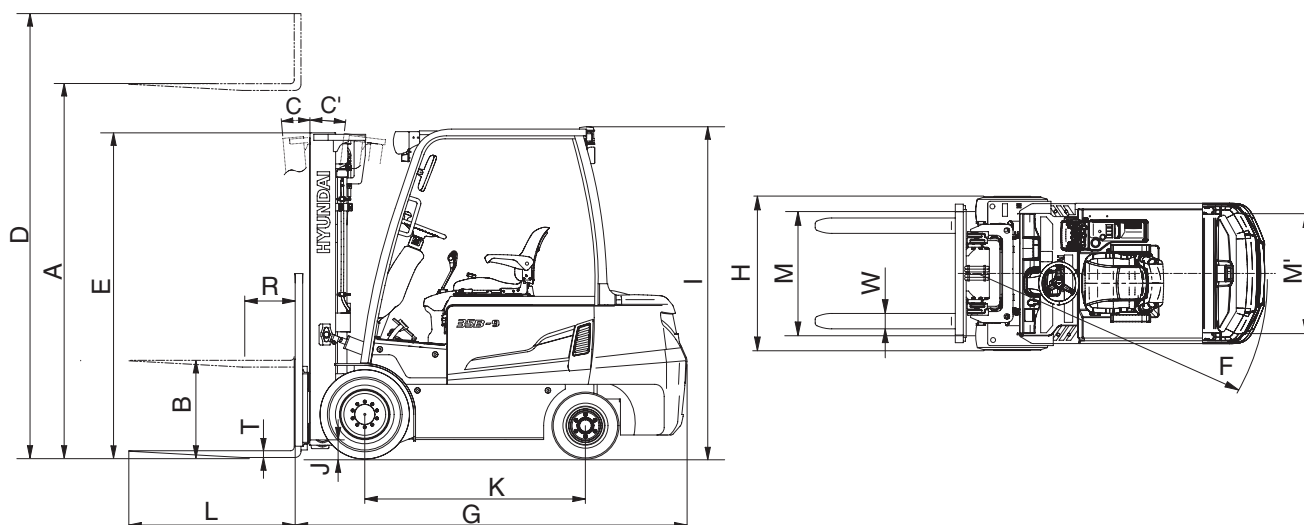


8. SPECIFICATIONS

1. SPECIFICATION



22B9SP01

Model		Unit	22B-9	25B-9	30B-9	32B-9	35B-9
Capacity		kg (lb)	2200 (4400)	2500 (5000)	3000 (6000)	3200 (6500)	3500 (7000)
Load center	R	mm (in)	500 (24")	←	←	←	←
Weight		kg (lb)	4045 (8920)	4310 (9500)	4750 (10470)	4935 (10880)	5190 (11440)
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	500/230
	Lowering speed (Unload/Load)		mm/sec	450/500	←	←	←
	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	6/10	←	←	←
	Max height	D	mm (ft-in)	4485 (14' 9")	←	←	←
	Min height	E	mm (ft-in)	2162 (7' 1")	←	←	2232 (7' 4")
Body	Travel speed (Unload)		km/h	18.0	←	←	←
	Gradeability (Load)		%	34	31	27	26
	Min turning radius (Outside)	F	mm	1935 (6' 4")	←	2150 (7' 1")	2164 (7' 1")
ETC	Max hydraulic pressure		kgf/cm ²	190	←	←	←
	Hydraulic oil tank		l (usgal)	32.8 (8.6)	←	←	←
Overall length		G	mm (ft-in)	2295 (7' 6")	←	2488 (8' 2")	2503 (8' 3")
Overall width		H	mm (ft-in)	1200 (3' 11")	←	←	1250 (4' 1")
Overhead guard height		I	mm (ft-in)	2230 (7' 4")	←	←	←
Ground clearance (Mast)		J	mm (in)	117 (4.6")	←	←	128 (5")
Wheel base		K	mm (ft-in)	1400 (4' 7")	←	1600 (5' 3")	←
Wheel tread (front/rear)		M/M'	mm (ft-in)	993/980 (3' 3"/3' 3")	←	←	1005/980 (3' 4"/3' 3")

2. SPECIFICATION FOR MAJOR COMPONENTS

1) CONTROLLER

Item	Unit	Traction	Pump
Model	-	ZAPI Dual AC2 power	ZAPI AC3
Type	-	AC	←
Dimension	mm	340×256×179	280×250×179
Current limit	A	450±450	600
Communication	-	CAN	←

2) MOTOR

Item	Unit	Traction	Pump
Type	-	AQDG4001	AMDL4001
Rated voltage	Vac	30	30
Output	kW	7.0×2	17
Insulation	-	Class F	Class F

3) BATTERY

Item	Unit	22/25B-9	30/32/35B-9
Rated voltage	V	48	←
Dimension (W×L×H)	mm	1030×796×537	1030×990×537
Min. Battery weight	kg	970	1090
Max. Battery weight	kg	1300	1495
Connector (CE spec)	-	SB 350 or SR 350 (SBE 320 BLUE)	

4) CHARGER

Item	Unit	Specification
Type	-	Constant current, constant voltage
Battery capacity for charge	V-AH	48V/660~740
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 (SBE 320 BLUE)

5) GEAR PUMP

Item	Unit	Specification
Type	-	Fixed displacement gear pump
Capacity	cc/rev	26.921
Maximum operating pressure	bar	230
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	190
2nd relief valve pressure	bar	130

7) DRIVE AXLE UNIT

Item	Unit	Specification
Max axle load	kg/lb	4500/9920.8
Max input rpm	rpm	5000
Gear ratio	-	24.58
Weight without fluid	kg/lb	62 kg (137 lb)/EA
Oil quantity	l /U.S · qt	1.0 (1.06)

8) WHEELS

Item	22/25/30/32B-9	35B-9
Type (front/rear)	SOLID (OPT : NON-MARKING, PNEUMATIC)	
Quantity (front/rear)	2/2	
Front-drive	23 × 9-10 (18PR)	23 × 10-12 (16PR)
Rear-steering	18 × 7-8 (16PR)	←

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	M 8 × 1.25	3.4 ± 0.7	24.6 ± 5.0
2		Traction motor mounting bolt	M10 × 1.5	6.9 ± 1.4	50 ± 10
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	M10 × 1.5	8 ± 0.5	57.9 ± 3.6
9	Power train system	Drive unit mounting bolt, nut	M20 × 2.5	55.5 ± 2.5	401 ± 18.0
10		Steering axle mounting bolt, nut	M20 × 2.5	62 ± 3.0	448 ± 21.7
11		Front wheel mounting nut	M14 × 1.5	15.7 ± 2.3	114 ± 16.6
12		Rear wheel mounting nut	M14 × 1.5	23 ± 1.0	166 ± 7.2
13	ETC	Counterweight mounting bolt	M24 × 3.0	199 ± 15	1429 ± 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