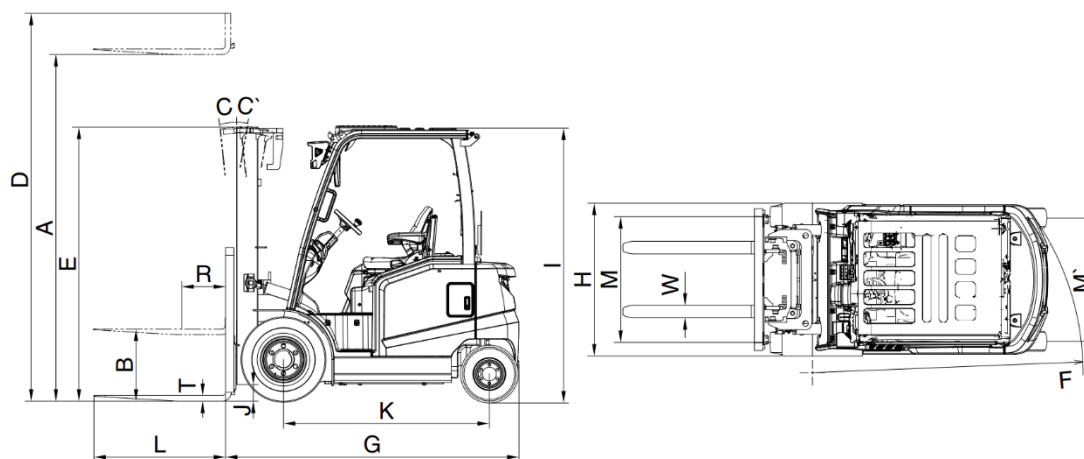


CHAPTER 8 SPECIFICATIONS

1. SPECIFICATION TABLE



Item		Unit	25BE-X	30BE-X	35BE-X
Rated load		kg	2500	3000	3500
Center of gravity	R	mm	500	←	←
Weight		kg	4484	4947	5272
Forks	Lifting height	A	mm	←	←
	Free lift	B	mm	←	←
	Lifting speed (load/non-load)	mm/sec	300/450	←	←
	Lowering speed (load/non-load)	mm/sec	500/350	←	←
	Length × width × thickness	mm	1050 × 100 × 45	1050 × 125 × 45	1050 × 125 × 45
Mast	Tilt angle(F/R)	C/C'	Degree	6/10	←
	Max. height	D	mm	←	←
	Min. height	E	mm	←	←
Others	Travel speed (load/non-load)	km/h	14/15	←	←
	Max. gradeability (load)	%	15	←	←
	Min. turning radius (outside)	F	mm	2135	2337
	Max. hydraulic force	MPa	19.5	←	←
	Hydraulic oil tank	l	46	←	←
Overall length	G	mm	3410	3600	3650
Overall width	H	mm	1215	←	←
Overhead guard height	I	mm	2175	←	←
Ground clearance (mast)	J	mm	141.5	←	←
Distance between axles	K	mm	1490	1680	←
Distance between wheels	M/M'	mm	1005/996	←	←

2. SPECIFICATION FOR MAJOR COMPONENTS

1. CONTROLLER

Item	Unit	25BE-X		30/35BE-X	
Controller	-	Drive	Pump	Drive	Pump
Model	-	ZAPI ACE2 NEWGEN	←	←	←
Type	-	AC	←	←	←
Current limit	V-A	48-450	←	80-400	80-350
Communication	-	CAN	←	←	←

2. MOTOR

Item	Unit	25BE-X		30/35BE-X	
Motor	-	Drive	Pump	Drive	Pump
Type	-	JXQ-10-XD	JXQD-14-XD	JXQ-14-XD	JXQD-16.5-XD
Rated voltage	Vac	32	32	52	53
Output	kW	10	14	14	16.5
Insulator	-	F	F	F	F

3. BATTERY

Item	Unit	25BE-X	30/35BE-X
Type	-	Plumbic acid	←
Rated voltage	V	48	80
Capacity	AH/hr	600/5	500/5
Electrolyte	-	Wet	←
Dimensions (W×L×H)	mm	984×466×744	984×660×744
Connector	-	SB350	←
Weight	kg	950	1295

LITHIUM ION BATTERY (OPT)

Item	Unit	25BE-X	30/35BE-X
Rated voltage	V	51.2	83.2
Capacity	AH	450	←
Dimensions (W×L×H)	mm	984×466×744	984×660×744
Weight	kg	950	1295
Connector	-	DIN 320	←

4. CHARGER

Item	Unit	25BE-X	30/35BE-X
Capacity of battery for charging	V-AH	48V/600-660	80V/500-550
AC input	V	3-Phase,220	←
		3-Phase,380	←
		3-Phase,440	←
DC output	V	68±0.5	114±0.5
Charging time	hr	8±1	←
Connector	-	SB 350 or SR 350	←

LITHIUM ION CHARGER (OPT)

Item	Unit	25BE-X	30/35BE-X
Capacity of battery for charging	V-AH	51.2-450	83.2-450
AC input	V	3-Phase, 380-440	←
DC output	V	57.5-58	96±1
Charging time	hr	2.5	←
Connector	-	DIN 320	←

5. GEAR PUMP

Item	Unit	25BE-X	30/35BE-X
Type	-	Out gear pump	←
Capacity	cc/rev	21	25.8
Max. working pressure	bar	206	←
Rated rotation rate (max/min)	rpm	3000/500	←

6. MAIN CONTROL VALVE

Item	Unit	25/30/35BE-X
Type	-	2/3/4 spools
Operating mode	-	Mechanical
Primary relief valve pressure	bar	195
Secondary relief valve pressure	bar	160

7. T/M

Item	Unit	25/30/35BE-X
Type	-	Integrated
Stage	-	1/1
Transmission ratio	-	25.047
Noise (Rated input speed)	dB(a)	86
Transmission efficiency	-	≥90%

8. WHEEL

Item	25BE-X	30BE-X	35BE-X
Type (front/rear)	Solid (opt: pneumatic, no-marking)	←	Solid (opt: no-marking)
Quantity (front/rear)	2/2	←	←
Front-wheel drive	28*9-15-14PR	28*9-15-16PR	28*9-15
Rear-wheel drive	18*7-8-14PR	←	200/50-10

9. BRAKE AND STEERING SYSTEMS

Item		25/30/35BE-X
Brake	Traveling	Front-wheel mounted, dry disk mode
	Parking	Mechanical
Steering	Type	Hydraulic steering

3. FASTENING TORQUE

Sequences	Item		Screw specifications	kgf-m
1	Electric systems	hydraulic pump motor mounting nut	M10 × 1.5	5.0 ± 0.7
2		Drive motor mounting bolt	M14 × 1.5	15.7 ± 3.0
3	Hydraulic systems	hydraulic pump mounting bolt	M10 × 1.5	6.9 ± 1.4
4		MCV mounting bolt, nut	M10 × 1.5	5.0 ± 0.5
5		Steering unit mounting bolt	M10 × 1.5	5.0 ± 0.5
6		Tilt cylinder rod-end bolt, nut	M12 × 1.75	9.5 ± 0.5
7		Tilt cylinder pin mounting bolt	M10 × 1.5	6.9 ± 0.5
8	Powertrain system	Drive axle mounting bolt, nut	M16 × 2.0	29.5 ± 0.5
9		Steering axle mounting bolt, nut	M16 × 2.0	29.5 ± 0.5
10		Transmission mounting bolt, nut	M12 × 1.25	13 ± 0.5
11		Front wheel mounting nut	M20 × 1.5	40 ± 10
12		Rear wheel mounting nut	M14 × 1.5	14 ± 1.0
13	Others	Counterweight mounting bolt	M24 × 3.0	73.5 ± 15
14		Mast mounting bolt	M16 × 2.0	36.5 ± 7.0
15		Operator's seat mounting nut	M8 × 1.25	3.4 ± 0.7
16		Overhead guard mounting bolt (front)	M12 × 1.75	12.8 ± 3.0
17		Overhead guard mounting bolt (rear)	M12 × 1.75	12.8 ± 3.0

Appendix

Revision Table

Revision	Version No.	Date	Note
00	9YMD-90010	2022.12.22	The first printing
01	9YMD-90010C	2023.02.15	Add diagrams and etc.
02	9YMD-90010C	2023.07.03	Correct typing mistakes.
03	9YMD-90010C	2023.11.22	Cluster change

Electromagnetism compatibility is measured according to EN 12895:2015+A1:2019, and meet with Directive 2014/30/EU.

Products comply with the following EU directives and standards:

Machinery Directive 2006/42/EC

EMC Directive 2014/30/EU

EN ISO 12100:2010

EN ISO 3691-1:2015+A1:2020

EN 1175:2020

EN 16307-1:2020

EN 12053:2001+A1:2008

EN 13059:2002+A1:2008

EN 60204-1:2018

EN 12895:2015+A1:2019