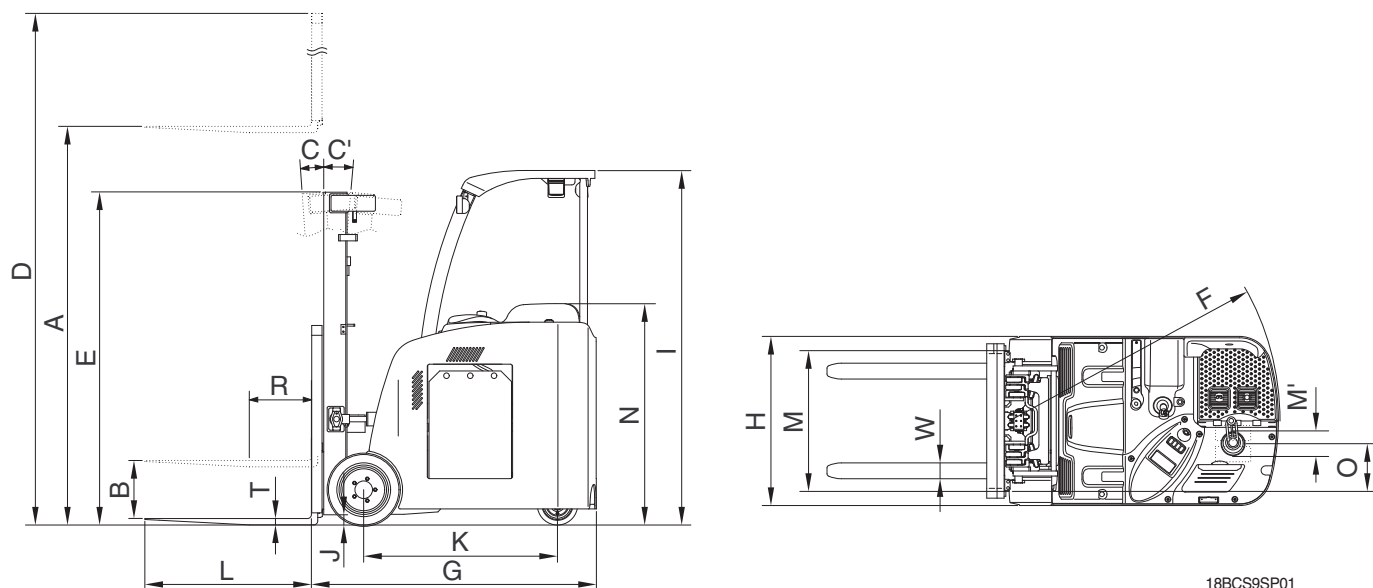


8. SPECIFICATIONS

1. SPECIFICATION



18BCS9SP01

Model			Unit	15BCS-9	18BCS-9	20BCS-9
Capacity			kg (lb)	1361 (3000)	1588 (3500)	1814 (4000)
Load center distance		R	mm (in)	610 (24")	←	←
Weight (Unloaded, with battery)			kg (lb)	3862 (8514)	4074 (8981)	4211 (9283)
Fork	Lifting height	A	mm (ft-in)	4740 (15' 7")	←	4735 (5' 6")
	Free lift	B	mm (in)	1113 (3' 8")	←	←
	Lifting speed (Unload/Load)		mm/sec	560/360	560/340	560/330
	Lowering speed (Unload/Load)		mm/sec	430/480	←	←
	L × W × T	L,W,T	mm (in)	1050 × 100 × 40 (41.3 × 3.9 × 1.6)	←	←
Mast	Tilt angle (forward/backward)	C/C'	degree	5/5	←	←
	Max height	D	mm (ft-in)	5954 (19' 6")	←	←
	Min height	E	mm (ft-in)	2120 (6' 11")	←	←
Body	Travel speed (Unload/Load)		km/h	12.1/12.1	←	←
	Gradeability (Unload/Load)		%	15/15	←	←
	Min turning radius (Outside)	F	mm (ft-in)	1397 (4' 7")	←	1467 (4' 10")
	Body height	N	mm (ft-in)	1395 (4' 7")	←	←
ETC	Max hydraulic pressure		kgf/cm ²	170	←	←
	Hydraulic oil tank		l (usgal)	20 (5.3)	←	←
Overall length (to face of forks)		G	mm (ft-in)	1727 (5' 8")	←	1797 (5' 11")
Overall width		H	mm (ft-in)	1067 (3' 6")	←	←
Overhead guard height		I	mm (ft-in)	2235 (7' 4")	←	←
Ground clearance (center of wheel base)		J	mm (in)	100 (3.9")	←	←
Wheel base		K	mm (ft-in)	1152 (3' 9")	←	1222 (4' 0")
Wheel tread (Front/rear)		M/M'	mm (ft-in)	889/181 (35"/7.1")	←	←
Distance (Front ↔ rear)		O	mm (ft-in)	265 (10.4")	←	←

2. SPECIFICATION FOR MAJOR COMPONENTS

1) MOTOR

Item	Unit	Drive motor	Hydraulic pump motor
Model	-	AMDD4004	ABDD4002
Type	-	AC	←
Rated voltage	Vac	30V 3 ∅	←
Output	kW	4.5	14
Insulation	-	Class F	←

2) BATTERY

Item	Unit	15/18BCS-9	20BCS-9
Model	-	VCJ7	VCJ8
Rated voltage	V	36	
Capacity	AH/hr	700/5	800/5
Electrolyte	-	WET	
Dimension (W×D×H)	mm	975×450×787	975×520×787
Connector (CE spec)	-	SB350	
Weight	kg	1080 ± 50	1230 ± 50

3) CHARGER

Item	Unit	15/18/20BCS-9
Type	-	Constant current, constant voltage
Battery capacity for charge	V-AH	48-128 ± 5%
AC input	V	Triple phase 220 / 380 v
		Triple phase 410 v
		Triple phase 440 v
DC output	V	48 ± 1
Charge time	hr	6 ± 2
Connector (CE spec)	-	SB350

4) GEAR PUMP

Item	Unit	Specification
Type	—	Fixed displacement gear pump
Capacity	cc/rev	16.5
Maximum operating pressure	bar	210
Rated speed (max/min)	rpm	3000/500

5) MAIN CONTROL VALVE

Item	Unit	Specification
Type	-	3 spool, 4 spool
Operating method	-	Electric
Main relief valve pressure	bar	170

6) STEERING UNIT

Item	Unit	Specification
Type	—	Dynamic load sensing/Non load reaction
Displacement	cc/rev	40
Rated flow	gpm	6.0
Relief pressure	kgf/cm ²	120 ⁺⁵ ₀

7) DRIVE UNIT

Item	Unit	Specification
Gear ratio	-	27.1
Oil quantity	l	0.45

8) STEERING AXLE

Item	Specification
Type	Full hydraulic power steering
Steering angle	90° to both right and left angle, respectively

9) WHEELS

Item	15/18/20BCS-9
Type (Front/rear)	Rubber / Urethane
Quantity (Front/rear)	2 / 2
Front wheel	Ø308×178
Rear wheel	Ø254×127

10) BRAKES

Item	Specification
Brakes (Service)	Regen brake
Brakes (Parking)	Electric brake (2EA)

3. TIGHTENING TORQUE

NO	Items		Size	kgf · m	lbf · ft
1	Electric system	Hyd pump motor mounting bolt	M 8×1.25	2.5±0.5	18.1±3.6
2		Drive motor mounting bolt	M 8×1.25	1.5±0.2	10.8±1.4
3		Steering motor mounting bolt	M12×1.75	10.5±1.5	75.9±10.8
4	Hydraulic system	Hydraulic pump mounting bolt	M10×1.5	5±1.0	36.2±7.2
5		MCV mounting bolt, nut	M 8×1.25	2.5±0.5	18.1±3.6
6	Power train system	Drive wheel mounting bolt	M16×1.5	15.7±2.3	114±16.6
7		Steering wheel mounting nut	M40×1.5	5±0.5	36.2±3.6
8		Drive unit bracket mounting bolt	M14×2.0	16.0±2.0	116±14.5
9		Steering axle mounting bolt	M14×2.0	16.0±2.0	116±14.5
9	Other	Head guard mounting bolt (front)	M16×2.0	29.5±4.5	213±32.5
10		Head guard mounting bolt (rear)	M12×1.75	12.5±1.5	90.4±10.8