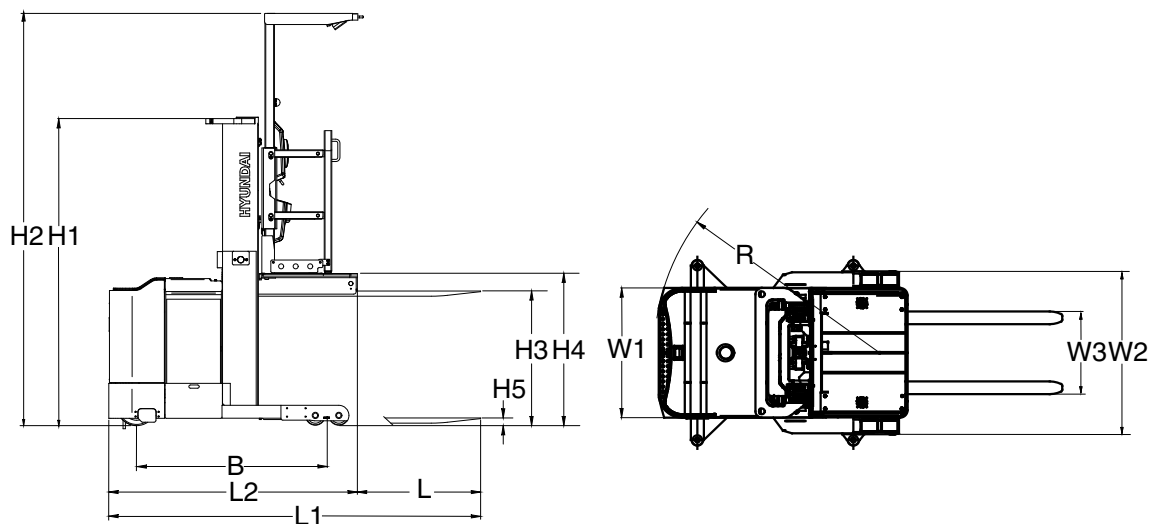


8. SPECIFICATIONS

1. SPECIFICATION

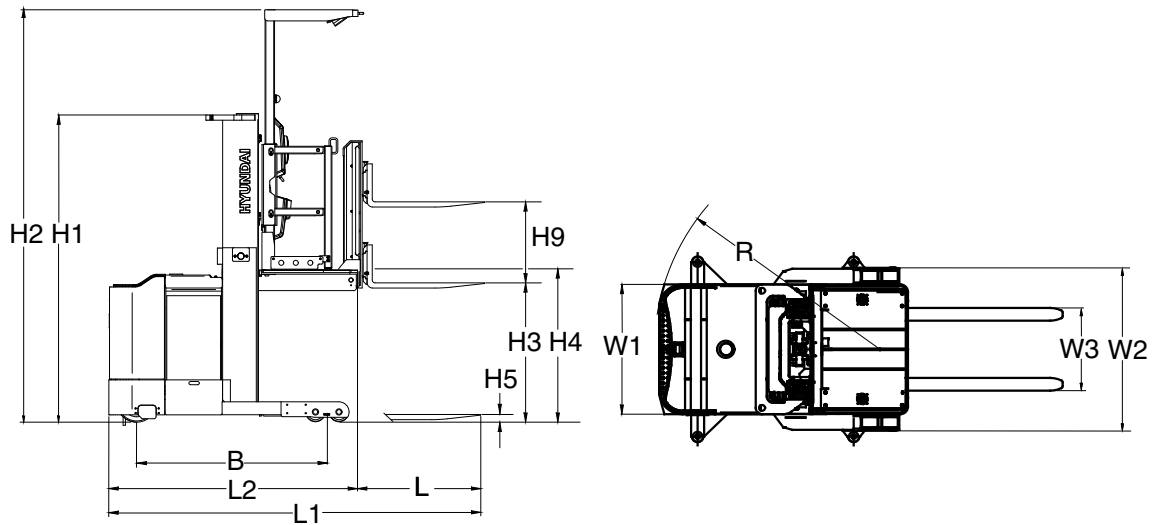
1) PLATFORM



13BOP98SP01

Description			Unit	Specification
Capacity			kg (lb)	1,306 (2,998.3)
Load center			mm (in)	600 (23.6)
Weight (with battery)			kg (lb)	2,934.5 (6,469.5)
Fork	Max lifting height	H3	mm (in)	3,275 (128.9)
	Min lifting height	H5	mm (in)	65 (2.6)
	Max spread width	W3	mm (in)	650 (25.6)
	Dimensions (T×W×L)		mm (in)	40×100×1,050 (1.6×3.9×41.3)
Platform	Max lifting height	H4	mm (in)	3,410 (134.3)
Mast	Max height	H2	mm (in)	5,470 (215.4)
	Closed mast height	H1	mm (in)	2,220 (87.4)
Picking height			mm (in)	5,010 (197.22)
Overall width of chassis		W1/W2	mm (in)	1,020/1,050 (40.2/49.2)
Overall length (without load)		L1	mm (in)	2,980 (117.3)
Travel speed (Load/unload)			km/h (mph)	12/12 (7.5/7.5)
Lifting speed (Load/unload), 36 V			mm/sec (ft/min)	320/430 (62.9/84.6)
Lifting speed (Load/unload), 24 V, option			mm/sec (ft/min)	240/370 (47.2/72.8)
Lowering speed (Load/unload)			mm/sec (ft/min)	430/400 (84.6/78.4)
Length to fork face		L2	mm (in)	1,930 (76)
Wheel base		B	mm (in)	1,480 (58.3)
Min turning radius		R	mm (in)	1,818 (71.6)

2) ADDITIONAL LIFT (OPT)



13BOP98SP02

Description			Unit	Specification
Capacity			kg (lb)	1,000 (2,204.6)
Load center			mm (in)	600 (23.6)
Weight (with battery)			kg (lb)	1,480 (58.3)
Fork	Max lifting height	H3	mm (in)	3,275 (128.9)
	Min lifting height	H5	mm (in)	65 (2.6)
	Additional lift	H9	mm (in)	760 (29.9)
	Max spread width	W3	mm (in)	840 (33.1)
	Dimensions (T×W×L)		mm (in)	40×100×1,050 (1.6×3.9×41.3)
Platform	Max lifting height	H4	mm (in)	3,410 (134.3)
Mast	Max height	H2	mm (in)	5,470 (215.4)
	Closed mast height	H1	mm (in)	2,220 (87.4)
Picking height			mm (in)	5,010 (197.22)
Overall width of chassis		W1/W2	mm (in)	1,020/1,050 (40.2/41.3)
Overall length (without load)		L1	mm (in)	3,130 (123.2)
Travel speed (Load/unload)			km/h (mph)	12/12 (7.5/7.5)
Lifting speed (Load/unload), 36 V			mm/sec (ft/min)	320/430 (62.9/84.6)
Lifting speed (Load/unload), 24 V, option			mm/sec (ft/min)	240/370 (47.2/72.8)
Lowering speed (Load/unload)			mm/sec (ft/min)	430/400 (84.6/78.4)
Length to fork face		L2	mm (in)	2,080 (81.9)
Wheel base		B	mm (in)	1,480 (58.3)
Min turning radius		R	mm (in)	1,818 (71.6)

2. SPECIFICATION FOR MAJOR COMPONENTS

1) CONTROLLER (36 V)

Item	Unit	Traction	Pump	EPS
Nominal battery voltage	V	36	←	←
Maximum output current	A	280 (2 min)	450 (2 min)	45 (2 min)
Output frequency range	Hz	0~200	←	←
Dimensions (L×W×H)	mm	200×150×105	200×150×110	120×150×54
Weight	kg	2	3.5	0.72

2) CONTROLLER (24 V, OPTION)

Item	Unit	Traction	Pump	EPS
Nominal battery voltage	V	24	←	←
Maximum output current	A	320 (2 min)	500 (3 min)	50 (2 min)
Output frequency range	Hz	0~200	←	←
Dimensions (L×W×H)	mm	200×150×105	200×200×120	120×150×54
Weight	kg	2	3.5	0.72

3) MOTOR

Item	Unit	Traction	Pump	EPS
Power	kW	4.3	9.0	0.4
Voltage	Vac	16	16	16
Current	A	204	425	21
Weight	kg	37	41	11

4) HYDRAULIC PUMP

Item	Unit	Specification
Type	-	Fixed displacement gear pump
Displacement	cc/rev	18.4
Rated pressure	bar	210
Speed (max/min)	rpm	3500/500

5) MANIFOLD ASSY

Item	Unit	Specification	
		Platform	Additional lift
Rated flow	lpm	60.4	40
Maximum pressure	bar	240	210
Main relief valve pressure	bar	160	160
Voltage	V	24 or 36	24

6) DRIVE UNIT

Item	Unit	Specification
Gear ratio	-	20.2
Oil quantity	ℓ	2.2

7) WHEELS

Item	Unit	Specification	
		Drive tire	Load tire
Material	-	Urethan	←
Dimension	Outside diameter	305	152
	Width	140	100

8) BRAKES

Item	Unit	Specification
Type	-	Electromagnetic brake

8) BATTERY

Voltage	Capacity	Dimensions						Weight
		Length (L)		Width (W)		Height (H)		
V	Ah	mm	in	mm	in	mm	in	kg (lb)
24	825	972	38.3	415	16.3	790	31.1	730 (1,609.4)

3. TIGHTENING TORQUE

No.	Items		Size	kgf·m	lbf·ft
1	Electric system	Hyd pump motor mounting bolt	M10×1.5	6.5	47
2		Traction motor mounting bolt	M 8×1.25	4.1±0.4	29.7±2.9
3		EPS motor mounting bolt	M10×1.5	8.3±0.8	60±5.8
4	Hydraulic system	Hydraulic pump mounting bolt	M10×1.5	6.5	47
5		MCV mounting bolt, nut	M10×1.5	6.9±1.4	50±10
6		Hydraulic oil tank mounting bolt	M10×1.5	6.5	47
7	Power train system	Drive unit mounting bolt	M12×1.75	14.7±1.5	106±10
8		Drive wheel mounting nut	M14×1.5	15.7±2.3	114±16
9	Others	Head guard mounting bolt	M12×1.75	12.3±2.5	89±18