

ESS SERIES

Electric Straddle Leg Stacker



INTRODUCTION

- ◆ The ESS series is classic electric stacker with high performance by AC drive technology. It carries out intensive stacking operations, with capacities from 1500kg (3300lbs) to 2000kg (4400lbs) and lifting height from 1600mm to 6200/6300mm.

ELECTRIC STRADDLE LEG STACKER



◆ Handle

All operating elements on the handle are easy to reach.

◆ Electric power steering (optional)

Electric power steering brings effortless operating and easy maneuvering even in narrow spaces.

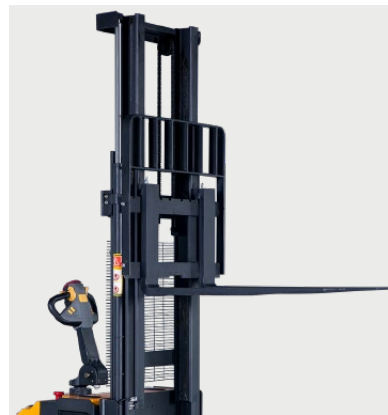


- ◆ The innovative AC drive system offers strong power, accurate control, excellent performance. High strength gearbox with long working life. Low noise but durable hydraulic unit, good quality cylinder as well as hose ensure high reliability of hydraulic system.



◆ Straddle leg

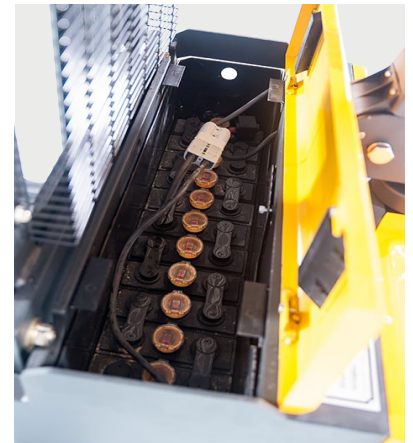
Adjustable straddle leg design, suitable for diverse pallet sizes and more stability.



- ◆ H +H shape mast improves the strength of whole stacker. Triplex mast lifts up to a height of 6300mm.

◆ Option Side shift

Side shift allows the load carried to be moved to the left and the right.



◆ Standard battery

Long operating time with high capacity.



◆ Optional foldable platform & protective arm

Suspension foldable platform with protective arms. The ergonomically designed foldable platform in combination with protective arms makes operations faster and safer.

SPECIFICATIONS

MODEL				ESS15D	ESS20D	ESS15T	ESS20T
CHARACTERISTICS							
1.1	Mast Type			Duplex		Triplex	
1.2	Mast profile			H model		H model	
1.3	Type of drive			Full Electric		Full Electric	
1.4	Operator type			Walkie/Rider		Walkie/Rider	
1.5	Capacity	Q	kg	1500	2000	1500	2000
1.6	Load center	C	mm	600	600	600	600
1.7	Wheel base	Y	mm	1362	1362	1432	1432
1.8	Electric power steering(EPS)			optional			
WEIGHT							
2.1	Service weight without battery		kg	735	735	915	960
2.2	Service weight with battery		kg	945	945	1125	1170
WHEEL							
3.1	wheel type			PU	PU	PU	PU
3.2	Size of front wheels	Φd	mm	Φ 96	Φ 96	Φ 96	Φ 96
3.3	Size of rear wheels		mm	Φ 124	Φ 124	Φ 124	Φ 124
3.4	Size of drive wheels	ΦD	mm	Φ 230	Φ 230	Φ 230	Φ 230
3.5	Wheels quantity		pcs	1/2/4			
CHASSIS							
4.1	Mast lower height	h1	mm	2070		2105	
4.2	Mast extend height	h2	mm	3845		5355	
4.3	Overall length (without platform)		mm	1920		1985	1985
4.4	Overall length (with platform)	L	mm	2460	2460	2525	2525
4.5	Rear body width	W1	mm	800	800	800	850
4.6	Rear body length		mm	585	585	585	585
4.7	Overall width (Minimum OD)	W2	mm	1150			
4.8	Height of tiller arm in drive position min./max.	H	mm	1030-1330			
4.9	Rear body height	H1	mm	800	800	800	800
SPECIFICATIONS							
5.1	Clearance	H2	mm	30	30	40	30
5.2	Fork length	Sl	mm	1070	1070	1070	1070
5.3	Overall fork width	W	mm	200~800	240~800	200~800	
5.4	Min.Turning radius	Wa	mm	1652	1652	1707	1707
5.5	Lowered height of fork	H3	mm	70	70	70	70
5.6	Fork width	S	mm	100	120	100	120
5.7	Fork thickness		mm	35	40	35	40
5.8	Support leg OD	W2	mm	1150/1290/1430 Adjustable	1430 Fixed	1150/1290/1430 Adjustable	1430 Fixed
5.9	Support leg ID	W3	mm	970/1110/1250 Adjustable	1250 Fixed	970/1110/1250 Adjustable	1250 Fixed
5.10	Lifting height	h	mm	70~3000	70~3000	70~4500	70~4500
5.11	Freelift height		mm	—	—	1530	1530
5.12	Aisle width (800*1200mm pallet)	Ast	mm	2506	2506	2539	2550
5.13	Aisle width (800*1200mm pallet)	Ast	mm	3046	3046	3079	3090
5.14	Aisle width (1000*1200mm pallet)	Ast	mm	2573	2573	2606	2620
5.15	Aisle width (1000*1200mm pallet)	Ast	mm	3113	3113	3146	3160
PERFORMANCE							
6.1	Travel speed	laden	km/h	5	5	5	5
		unladen	km/h	5.3	5.3	5.3	5.3
6.2	Lift speed	laden	mm/s	85	58	58	58
		unladen	mm/s	128	148	148	148
6.3	lower speed	laden	mm/s	250	145	145	145
		unladen	mm/s	125	80	80	80
6.4	Gradeability	laden	%	5	5	5	5
		unladen	%	7	7	7	7
DRIVING SYSTEM							
7.1	Brake type			electromagnetic			
7.2	Drive motor		kw	1.5(vertical motor+EPS)	2.2(vertical motor+EPS)	1.5(vertical motor+EPS)	2.2(vertical motor+EPS)
7.3	Lift motor		kw	3			
7.4	Battery voltage/capacity		V/Ah	24V ● 210 / ○ 270 / ○ 340Ah			
7.5	Battery weight		kg	210			
7.6	battery size		mm	790×210×576			
7.7	control system			F2-A (CURTIS)			

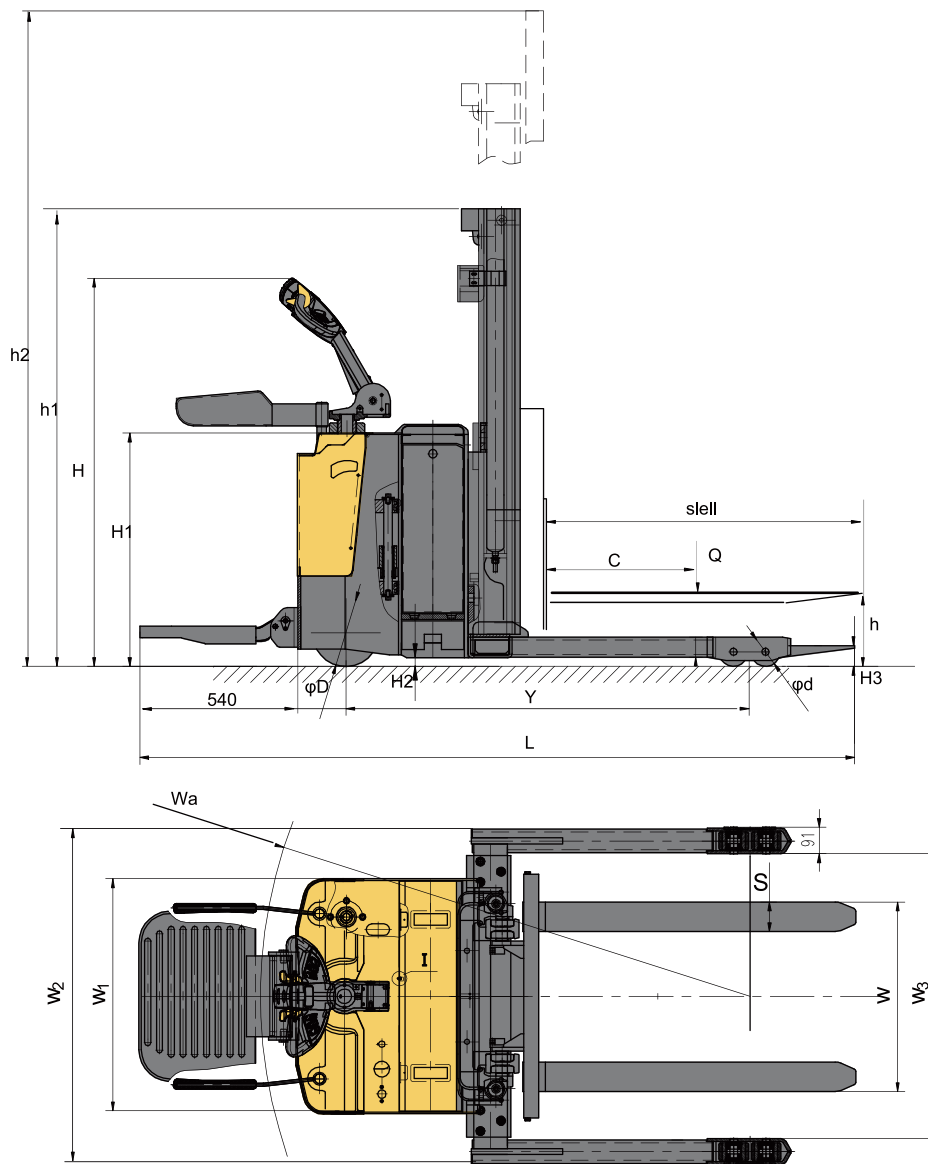
Note:

1kgs=2.2lbs, 5.4mm=1inch

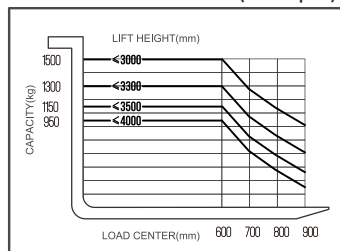
● standard ○ option

If there are improvements of technical parameters or configurations, no further notice will be given.

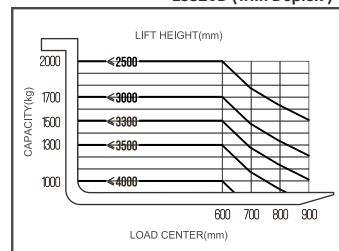
The diagram shown may contain non-standard configurations.



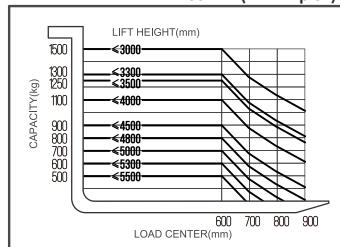
LOAD CHART ESS15D (with Duplex)



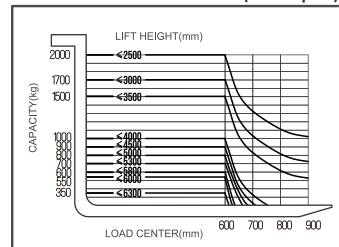
LOAD CHART ESS20D (with Duplex)



LOAD CHART ESS15T (with Triplex)



LOAD CHART ESS20T (with Triplex)



MAST OPTION

MAST OPTION						
MODEL	MAST TYPE	LIFTING HEIGHT (mm)	MAST LOWER HEIGHT (mm)	MAST EXTEND HEIGHT (mm)	FREE LIFT (mm)	SERVICE WEIGHT WITH BATTERY (kg)
ESS15D	DUPLEX	1600	2080	2400	/	850
		2500	1820	3345		920
		3000	2070	3845		945
		3300	2220	4145		960
		3500	2320	4345		970
		4000	2570	4845		995
ESS20D	DUPLEX	1600	2080	2400	/	875
		2500	1820	3345		910
		3000	2070	3845		945
		3300	2220	4145		980
		3500	2320	4345		990
		4000	2570	4845		1025
ESS15T	TRIPLEX	3700	1835	4555	1264	1045
		4000	1935	4855	1364	1075
		4300	2035	5155	1464	1100
		4500	2105	5355	1530	1125
		4800	2205	5655	1630	1155
		5000	2275	5855	1696	1180
		5300	2375	6155	1796	1210
		5500	2445	6355	1864	1235
ESS20T	TRIPLEX	3700	1835	4555	1264	1090
		4000	1935	4855	1364	1120
		4300	2035	5155	1464	1145
		4500	2105	5355	1530	1170
		4800	2205	5655	1630	1200
		5000	2275	5855	1696	1225
		5300	2375	6155	1796	1255
		5500	2445	6355	1864	1280
		5800	2545	6655	1964	1310
		6000	2615	6855	2030	1335
		6200/6300	2715	7155	2130	1365

OPTIONS

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1	Fork length	●1150 / ○1220
2	Fork width	560/680
3	Battery capacity	24V ● 210 / ○270 / ○340AH
4	Platform	○
5	Protection Arm	○
6	Moonwalk- AC & EPS model	○
7	Remote control-for lifting/lowering	○
8	Warning light	○
9	Up-right Drive	○
10	Turtle Speed	○
11	Beeper	○
12	Side shift	○

Note: ● standard ○ option