



ES-12-12E/ES-12-27E
 ES-14-14E/ES-14-30E
 ES-16-16E/ES-16-35E



Control Handle

- Ergonomic design-extra large push buttons for raise, lower and born functions are easily?accessible even with gloved hand.
- Large safety reversing button propels truck away from operator if contact with operator made while unit is in reverse mode.
- Dual forward/reverse grip controls for thumb operation.
- Automatic "dead-man" type braking with power cut-off switch when brake is applied.

Mast and Chassis

- High visibility is specially designed on mast with laterally mounted lifting cylinder.
- Safety screening protects operator during lifting and lowering.
- The mast fabrication is of cold drawn steel giving great rigidity.
- High quality ball bearing rollers.
- Battery can be easily changed.

Electric system and Controller

- Key switch.
- Emergency power disconnect button.
- Battery indicator meter.
- Advanced Curtis PMC drive controller gives smooth, step-less acceleration and infinitely variable speed control. providing superior command of the truck. The anti-rollback system delivers maximum power when required for uphill or down-hill gradients.
- Programmable electronics allow customer setting.

Drive unit

- Durable long lift gearbox with adequate ventilation.
- Powerful separately excited motor with high overload capacity.
- High precision gear makes low noise gear box.

Brake

- Electromagnetic disc brake connected to drive shaft.
- The CURTIS PMC has adjustable neutral braking, plugging, and regenerating braking.

Hvdraulic unit

- Heavy duty motor, gear pump, relief valve.
- Overload pressure relief valve protects system from pressure overload and bypasses oil.
- to reservoir when system reaches maximum pressure.

Model				ES-12-12E	ES-14-14E	ES-16-16E
Characteristics	M	Capacity	kg	1200	1400	1600
		Load center	mm	600		
		Drive type		Battery powered		
		Operator type		Hand,pedestrian		
Specifications	A	Maximum lifting height	mm	3000/3300/3600/4000		
	B	lower height of fork	mm	85		
	W	Standard fork width	mm	540		
		Standard fork length	mm	1150		
		Fork width	mm	185		
	C	Maximum turning radius	mm	1602		
		Maximum aisle width	mm	2650		
Minimum ground clearance		mm	30			
Performance	Maximum travel speed	Laden	km/h	3		
		Unladen	km/h	3.5		
	Maximum lifting speed	Laden	m/s	0.13		
		Unladen	m/s	0.23		
	Maximum lowering speed	Laden	m/s	0.13		
		Unladen	m/s	0.23		
Gradeability	Laden	%	5(within 5 min)			
	Unladen	%	7(within 30 min)			
Weight	Service weight without battery pack(3M standard)	kg	824			
		kg	1130			
Chassis	D	Overall length (3M standard)	mm	2004		
	F	Overall width	mm	950		
	L	Overall rear height	mm	1420		
	R	Rear body length	mm	854		
	J	Rear body width	mm	950		
	K	Rear body height	mm	750		
	N	Handle width	mm	430		
	G	Mast extended height (3m/3.3m/3.6m/4m)	mm	3500/3800/4100/4500		
	H	Mast lowered height (3m/3.3m/3.6m/4m)		2135/2135/2335/2535		
Wheel	I	Tyre type front /rear		poly/poly		
		Wheel	mm	1xDriven wheel,2x Universal wheel,4x Front wheel		
		Dimensoin of driven wheel	mm	Ø248*75		
		Dimensoin of load wheel	mm	Ø84*70		
		Dimensoin of universal wheel	mm	Ø90*48		
Brake			1337			
			Electromagnetism			
Motor	Travelling		24V ,0.93kw			
			24V ,3kw			
Battery	Voltage		24V			
		Capacity		280Ah		
Control	System control		CURTIS 1243			
		Drive and speed control		MOS		
		Hydraulic motor control		Solenoid		

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