

**HU-LIFT**



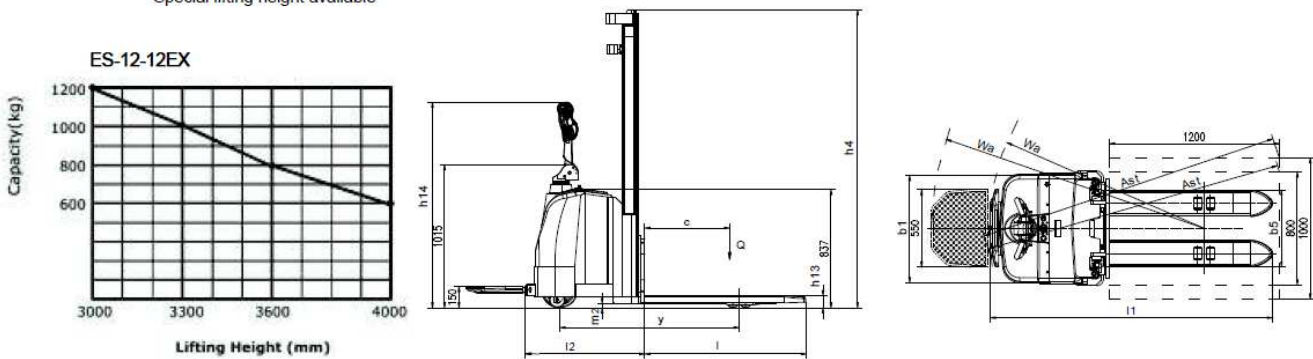
ES-12-12EX

*Plataforma opcional*



Characteristics			
1.1	Manufacturer		
1.2	Model designation	ES-12-12EX	
1.3	Drive unit	Battery	
1.4	Operator type	Walkie (platform option)	
1.5	Load capacity	Q (kg)	1200
1.6	Load center	c (mm)	600
1.9	Wheelbase	y (mm)	1270
Wheels, Chassis			
3.1	Tyre type		PU/PU
3.2	Tyre size, operator side (diameter x width)	mm	Φ248X75
3.3	Tyre size, load side (diameter x width)	mm	Φ84X70
3.4	Balance wheels (dimensions)	mm	Φ115X55
3.5	Wheels, number operator/load side (x=drive wheels)		1x+ 2/ 4
Dimensions			
4.2	Height, mast lowered	$h_1$ (mm)	1980/ 2135/ 2335
4.4	Lift height	$h_3$ (mm)	3000/ 3300/ 3600
4.5	Height, mast extended	$h_4$ (mm)	3500/ 3800/ 4100
4.9	Height of tiller arm in operating position, min/ max	$h_{14}$ (mm)	1015/ 1450
4.10	Height of straddle arms or load wheel casing	$h_8$ (mm)	80
4.15	Fork height, lowered	$h_{13}$ (mm)	85
4.19	Overall length	$l_1$ (mm)	1875
4.20	Length to face of forks	$l_2$ (mm)	843
4.21	Overall width	$b_1/ b_2$ (mm)	720
4.22	Fork dimensions	$s/ e/ l$ (mm)	55/185/1150 or 1200
4.24	Fork carriage width	$b_3$ (mm)	700
4.25	Outside fork width, minimum/ maximum	$b_5$ (mm)	550/ 600/ 650
4.26	Width between straddle arms	$b_4$ (mm)	265/ 315/ 365
4.31	Ground clearance, laden, below mast	$m_1$ (mm)	30
4.32	Ground clearance, center of wheelbase	$m_2$ (mm)	30
4.33	Aisle width, 1000x1200 pallet crossways	$As$ (mm)	2160
4.34	Aisle width, 800x1200 pallet lengthways	$As$ (mm)	2130
4.35	Outer turning radius	$Wa$ (mm)	1935/ 1525
Performance			
5.1	Travel speed, laden/ unladen	km/ h	3-5 / 3-5
5.2	Lifting speed, laden/ unladen	m/ s	0.13 / 0.23
5.3	Lowering speed, laden/ unladen	m/ s	0.13 / 0.23
5.8	Maximum gradeability, laden/ unladen $S_2$ 5 min.	%	5/ 7
5.10	Service brake		Electromagnetic
Drive			
6.1	Drive motor rating $S_2$ 60 min.	kW	1.5
6.2	Lift motor rating at $S_3$ 15%	kW	3
6.4	Battery voltage/ rated capacity (5h)	V/ Ah	24 /210
6.5	Battery weight (with box)	kg	200
	Battery compartment dimensions l/ w/ h	mm	650/ 200/ 575
	Battery type		Industry
Others			
8.1	Type of drive control		AC
	Manufacturer		CURTIS
8.4	Sound level at operator's ear	dB (A)	70
8.6	Steering		Power steering

\* Special lifting height available



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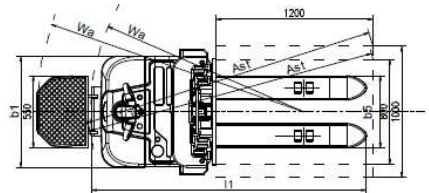
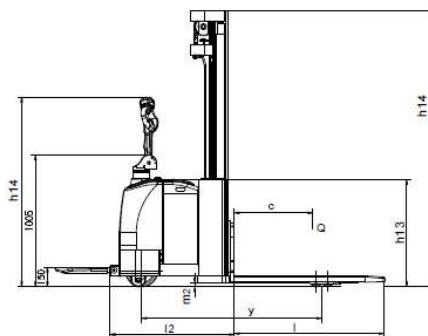
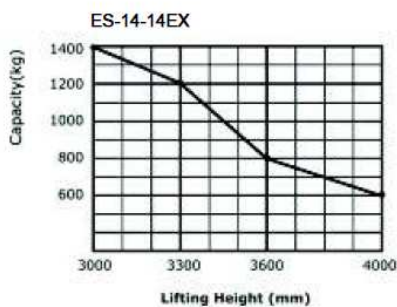


*Plataforma opcional*



Characteristics				
1.1	Manufacturer			
1.2	Model designation		ES-14-14EX	ES-16-16EX ES-16-16ETX
1.3	Drive unit		Battery	Battery Battery
1.4	Operator type		Walkie (platform option)	Walkie (platform option) Walkie (platform option)
1.5	Load capacity	Q (kg)	1400	1600 1600
1.6	Load center	c (mm)	600	600 600
1.9	Wheelbase	y (mm)	1307	1307 1375
Wheels, Chassis				
3.1	Tyre type		PU/PU	PU/PU PU/PU
3.2	Tyre size, operator side (diameter x width)	mm	Φ248X75	Φ248X75 Φ248X75
3.3	Tyre size, load side (diameter x width)	mm	Φ84X70	Φ84X70 Φ84X70
3.4	Balance wheels (dimensions)	mm	Φ115X55	Φ115X55 Φ115X55
3.5	Wheels, number operator/load side (x=drive wheels)		1x+ 2/ 4	1x+ 2/ 4 1x+ 2/ 4
Dimensions				
4.2	Height, mast lowered	h <sub>1</sub> (mm)	1980/ 2135/ 2335/ 2500	1980/ 2135/ 2335/ 2500 2135
4.3	Free lift	h <sub>2</sub> (mm)	—	— 1600
4.4	Lift height	h <sub>3</sub> (mm)	3000/ 3300/ 3600/ 4000	3000/ 3300/ 3600/ 4000 4000/ 4500/ 5000
4.5	Height, mast extended	h <sub>4</sub> (mm)	3500/ 3800/ 4100/ 4400	3500/ 3800/ 4100/ 4400 4500/ 5000/ 5500
4.9	Height of tiller arm in operating position, min/ max	h <sub>14</sub> (mm)	1015/ 1430	1015/ 1430 1005/ 1450
4.10	Height of straddle arms or load wheel casing	h <sub>8</sub> (mm)	80	80 80
4.15	Fork height, lowered	h <sub>13</sub> (mm)	85	85 85
4.19	Overall length	l <sub>1</sub> (mm)	2050	2050 2105
4.20	Length to face of forks	l <sub>2</sub> (mm)	900	900 1140
4.21	Overall width	b <sub>1</sub> / b <sub>2</sub> (mm)	850	850 957
4.22	Fork dimensions	s/ e/ l (mm)	55/185/1150 or 1200	55/185/1150 or 1200 55/185/1150 or 1200
4.24	Fork carriage width	b <sub>3</sub> (mm)	700	700 953
4.25	Outside fork width, minimum/ maximum	b <sub>5</sub> (mm)	550/ 600/ 650	550/ 600/ 650 550/ 600/ 650
4.26	Width between straddle arms	b <sub>4</sub> (mm)	265/ 315/ 365	265/ 315/ 365 265/ 315/ 365
4.31	Ground clearance, laden, below mast	m <sub>1</sub> (mm)	30	30 30
4.32	Ground clearance, center of wheelbase	m <sub>2</sub> (mm)	30	30 30
4.33	Aisle width, 1000x1200 pallet crossways	Ast (mm)	2210	2210 2260
4.34	Aisle width, 800x1200 pallet lengthways	Ast (mm)	2180	2180 2230
4.35	Outer turning radius	Wa (mm)	1990/ 1580	1990/ 1580 2040/ 1630
Performance				
5.1	Travel speed, laden/ unladen	km/ h	3-5 / 3-5	3-5 / 3-5 3-5 / 3-5
5.2	Lifting speed, laden/ unladen	m/ s	0.13 / 0.23	0.13 / 0.23 0.13 / 0.23
5.3	Lowering speed, laden/ unladen	m/ s	0.13 / 0.23	0.13 / 0.23 0.13 / 0.23
5.8	Maximum gradeability, laden/ unladen S <sub>2</sub> 5 min.	%	5 / 7	5 / 7 5 / 7
5.10	Service brake		Electromagnetic	Electromagnetic Electromagnetic
Drive				
6.1	Drive motor rating S <sub>2</sub> 60 min.	kW	1.5	1.5 1.5
6.2	Lift motor rating at S <sub>3</sub> 15%	kW	3	3 3
6.4	Battery voltage/ rated capacity (5h)	V/ Ah	24 / 280	24 / 280 24 / 280
6.5	Battery weight (with box)	kg	228	228 228
	Battery compartment dimensions l/ w/ h	mm	650x248x550	650x248x550 650x248x550
	Battery type		Industry	Industry Industry
Others				
8.1	Type of drive control		AC	AC AC
	Manufacturer		CURTIS	CURTIS CURTIS
8.4	Sound level at operator's ear	dB (A)	70	70 70
8.6	Steering		Power steering	Power steering Power steering

\*Special lifting height available



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