



ES 10-N01

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ES 12-N03    ES 16-N02

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1.1	Manufacturer		KION BAOLI	KION BAOLI	KION BAOLI
1.2	Manufacturer's type designation		ES 10-N01	ES 12-N03	ES 16-N02
1.3	Drive: electric, diesel, petrol, fuel gas		Electric	Electric	Electric
1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Pedestrian	Pedestrian	Pedestrian
1.5	Rated capacity / Rated load	Q (t)	1,0	1.2	1.6
1.6	Load centre distance	c (mm)	600	600	600
1.8	Load distance, centre of drive axle to fork	x (mm)	800	647	647
1.9	Wheelbase	y (mm)	1281	1248	1293
2.1	Service weight	Kg	510	1007	1340
2.2	Axle loading, laden front/rear	Kg	580/930	684/1523	930/2010
2.3	Axle loading, unladen front/rear	Kg	385/125	610/397	850/490
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		PU	PU	PU
3.2	Tyre size, front		Ø 220x70	Ø 230x70	Ø 230x70
3.3	Tyre size, rear		Ø 80x93	Ø 85x75	Ø 85x75
3.4	Additional wheels (dimensions)		Ø124x60	Ø150x54	Ø150x54
3.5	Wheels, number front/rear (x = driven wheels)		1x+1/2	1x+1/4	1x+1/4
3.6	Tread, front	b10 (mm)	529	522	522
3.7	Tread, rear	b11 (mm)	420/535	390/505	390/505
4.2	Height, mast lowered	h1 (mm)	1950	2308	2108
4.3	Free lift	h2 (mm)	70	1760	1520
4.4	Lift	h3 (mm)	2840	3530	4530
4.5	Height, mast extended	h4 (mm)	3325	4088	5088
4.9	Height drawbar in driving position min/max	h14 (mm)	785/1300	850/1385	850/1385
4.15	Height, lowered	h13 (mm)	85	90	90
4.19	Overall length	l1 (mm)	1800	1919	1964
4.20	Length to face of forks	l2 (mm)	632	769	814
4.21	Overall width	b1/b2 (mm)	800	820	820
4.22	Fork dimensions ISO 2331	s/e/l (mm)	60/150/1150	60/180/1150	60/180/1150
4.25	Distance between fork-arms	b5 (mm)	570/685	570/685	570/685
4.32	Ground clearance, centre of wheelbase	m2 (mm)	29	28	28
4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2317	2336	2406
4.34.2	Aisle width for pallets 800 x 1200 crossways	Ast (mm)	2285	2259	2329
4.35	Turning radius	Wa (mm)	1485	1440	1510
5.1	Travel speed, laden/unladen	km/h	4,3/4,5	6,0/6,0	5,7/6,0
5.2	Lift speed, laden/unladen	m/s	0,110/0,160	0,090/0,140	0,130/0,200
5.3	Lowering speed, laden/unladen	m/s	0,130/0,110	0,180/0,120	0,250/0,170
5.8	Max gradeability, laden/unladen	%	5/10	6/12	6/12
5.10	Service brake		Electromagnetic	Electromagnetic	Electromagnetic
6.1	Drive motor rating S2 60 min	kW	0.45	1.3	1.3
6.2	Lift motor rating at S3 15%	kW	2.2	1.5	3.2
6.3	Battery according to DIN 43531/35/36 A, B, C, no		No	2VBS	3VBS
6.4	Battery voltage/nominal capacity K5	V/Ah	2x12/85	24/180	24/270
6.5	Battery weight	kg	2x25	175	230
6.6	Energy consumption according to VDI cycle	kWh/h	0.73	0.95	1.59
8.1	Type of drive unit		DC	AC	AC
10.7	Sound pressure level at driver's seat	dB (A)	<70	<70	<70

## ES 10-N01

Mast	2 stages 2900mm	Single stage 1600mm	2 stages 3500mm
H1	1950	1950	2250
H2	70	1530	70
H3	2840	1530	3440
H4	3325	1950	3925

## ES 12-N03

Mast	2 stages 2900mm	2 stages 3200mm	2 stages 3600mm	2 stages with free lift 2900mm	2 stages with free lift 3200mm	2 stages with free lift 3600mm
H1	1958	2108	2308	1958	2108	2308
H2	-	-	-	1410	1560	1760
H3	2830	3130	3530	2830	3130	3530
H4	3380	3680	4080	3380	3680	4080
H3 + H13	2920	3220	3620	2920	3220	3620

## ES 16-N02

Mast	2 stages 2900mm	2 stages 3200mm	2 stages 3600mm	2 stages with free lift 2900mm	2 stages with free lift 3200mm	2 stages with free lift 3600mm	3 stages 4300mm	3 stages 4600mm	3 stages with free lift 4300mm	3 stages with free lift 4600mm
H1	1958	2108	2308	1958	2108	2308	2008	2108	2008	2108
H2	-	-	-	1410	1560	1760	-	-	1420	1520
H3	2830	3130	3530	2830	3130	3530	4230	4530	4230	4530
H4	3380	3680	4080	3380	3680	4080	4780	5080	4780	5080
H3 + H13	2920	3220	3620	2920	3220	3620	4320	4620	4320	4620

ES 10-N01		
1600 mm		
H3 (mm)	Q (kg)	
1600	1000	1000
c (mm)	600	700

ES 10-N01		
2900 mm		
H3 (mm)	Q (kg)	
2900	1000	800
2500	1000	800
2000	1000	1000
c (mm)	600	700

ES 10-N01		
3500 mm		
H3 (mm)	Q (kg)	
3500	600	500
3200	800	600
2900	1000	800
2500	1000	800
2000	1000	1000
c (mm)	600	700

ES 12-N03		
2900 mm		
H3 (mm)	Q (kg)	
2900	1000	800
2500	1200	1000
c (mm)	600	700

ES 12-N03		
3200 mm		
H3 (mm)	Q (kg)	
3200	800	600
2900	1000	800
2500	1200	1000
c (mm)	600	700

ES 12-N03		
3600 mm		
H3 (mm)	Q (kg)	
3600	600	400
3200	800	600
2900	1000	800
2500	1200	1000
c (mm)	600	700

ES 16-N02		
2900 mm		
H3 (mm)	Q (kg)	
2900	1400	1100
2500	1600	1200
c (mm)	600	700

ES 16-N02		
3200 mm		
H3 (mm)	Q (kg)	
3200	1200	900
2900	1400	1100
2500	1600	1200
c (mm)	600	700

ES 16-N02		
3600 mm		
H3 (mm)	Q (kg)	
3600	1000	700
3200	1200	900
2900	1400	1100
2500	1600	1200
c (mm)	600	700

ES 16-N02		
4300 mm		
H3 (mm)	Q (kg)	
4300	900	600
3600	1000	700
3200	1200	900
2900	1400	1100
2500	1600	1200
c (mm)	600	700

ES 16-N02		
4600 mm		
H3 (mm)	Q (kg)	
4600	800	500
4300	900	600
3600	1000	700
3200	1200	900
2900	1400	1100
2500	1600	1200
c (mm)	600	700

