LI-ION technology

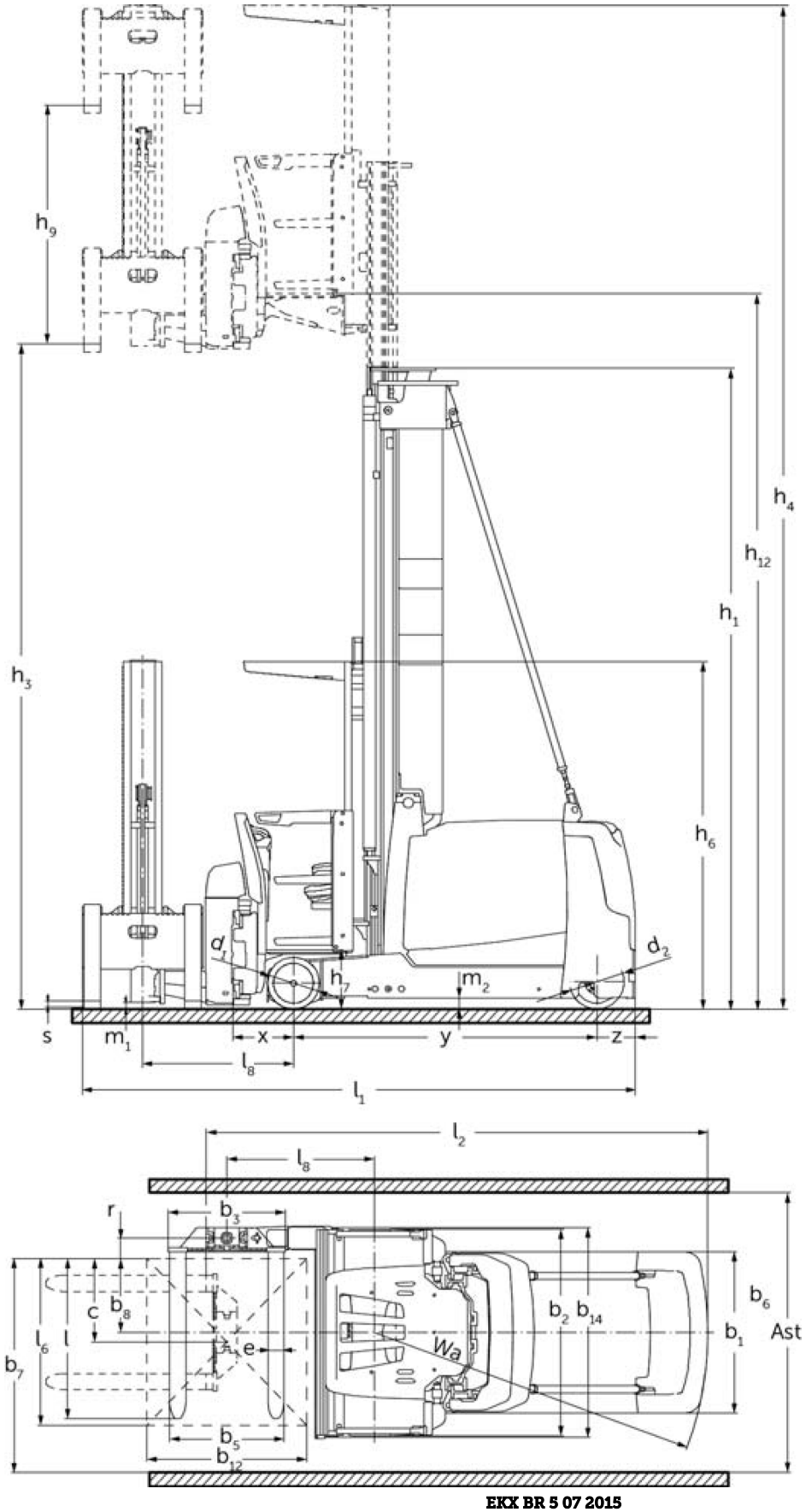
Electric high level combination picker/stacker

EKX 410-516

Lift height: 3000-18000 mm / Capacity: 1000-1600 kg

JUNGHEINRICH

EKX 410-516


h9
h4
h12
h1
h3
h6
d
d2
h7
m2
s
m1
x
y
z
l8
l1
l2
l8
r
b3
b6
b2
b14
b1
Ast
c
b8
l6
l
e
Wa
b7
b5
b12

EKX 410-516

EKX 410, EKX 412	Lift (h3)	Retracted mast height (h1)	Free lift (h2)	Extended mast height (h4)
Duplex mast ZT	**3000 mm**	**2600 mm**		**5550 mm**
	3500 mm	2850 mm		6050 mm
	4000 mm	3100 mm		6550 mm
	4500 mm	3350 mm		7050 mm
	5000 mm	3600 mm		7550 mm
	5500 mm	3850 mm		8050 mm
	6000 mm	4100 mm		8550 mm
	6500 mm	4375 mm		9050 mm
	7000 mm	4650 mm		9550 mm
	7500 mm	4925 mm		10050 mm
Triplex mast DZ	**4500 mm**	**2625 mm**	**75 mm**	**7050 mm**
	5000 mm	2800 mm	250 mm	7550 mm
	5500 mm	2975 mm	425 mm	8050 mm
	6000 mm	3150 mm	600 mm	8550 mm
	6500 mm	3325 mm	775 mm	9050 mm
	7000 mm	3500 mm	950 mm	9550 mm
	7500 mm	3675 mm	1125 mm	10050 mm
EKX 412	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**
Duplex mast ZT	**8000 mm**	**5200 mm**		**10550 mm**
	8500 mm	5475 mm		11050 mm
Triplex mast DZ	**8000 mm**	**3850 mm**	**1300 mm**	**10550 mm**
	8500 mm	4025 mm	1475 mm	11050 mm
EKX 514, EKX 516k, EKX 516	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**
Duplex mast ZT	**3000 mm**	**2705 mm**		**5550 mm**
	3500 mm	2955 mm		6050 mm
	4000 mm	3205 mm		6550 mm
	4500 mm	3455 mm		7050 mm
	5000 mm	3705 mm		7550 mm
	5500 mm	3955 mm		8050 mm
	6000 mm	4205 mm		8550 mm
	6500 mm	4555 mm		9050 mm
	7000 mm	4805 mm		9550 mm
	7500 mm	5055 mm		10050 mm
	8000 mm	5305 mm		10550 mm
	8500 mm	5655 mm		11050 mm
	9000 mm	5905 mm		11550 mm
	9500 mm	6155 mm		12050 mm
Triplex mast DZ	**4000 mm**	**2550 mm**		**6550 mm**
	4500 mm	2710 mm	160 mm	7050 mm
	5000 mm	2895 mm	345 mm	7550 mm
	5500 mm	3095 mm	545 mm	8050 mm
	6000 mm	3295 mm	745 mm	8550 mm
	6500 mm	3495 mm	945 mm	9050 mm
	7000 mm	3695 mm	1145 mm	9550 mm
	7500 mm	3895 mm	1345 mm	10050 mm
	8000 mm	4095 mm	1545 mm	10550 mm
	8500 mm	4295 mm	1745 mm	11050 mm
	9000 mm	4495 mm	1945 mm	11550 mm

	9250 mm	4595 mm	2045 mm	11800 mm
	9500 mm	4695 mm	2145 mm	12050 mm
EKX 516	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**
Triplex mast DZ	**11000 mm**	**5215 mm**	**2665 mm**	**13550 mm**
	11500 mm	5395 mm	2845 mm	14050 mm
	12000 mm	5565 mm	3015 mm	14550 mm
	12500 mm	5750 mm	3200 mm	15050 mm
	13000 mm	5950 mm	3400 mm	15550 mm
	13500 mm	6250 mm	3700 mm	16050 mm
	14000 mm	6550 mm	4000 mm	16550 mm
	14500 mm	6850 mm	4300 mm	17050 mm
EKX 516k, EKX 516	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**
Duplex mast ZT	**10000 mm**	**6405 mm**		**12550 mm**
	10500 mm	6655 mm		13050 mm
Triplex mast DZ	**10000 mm**	**4875 mm**	**2325 mm**	**12550 mm**
	10500 mm	5045 mm	2495 mm	13050 mm

VDI table

Stand-on: 02/2020

Characteristic	1.1	Manufacturer (abbreviated description)			Jungheinrich				
	1.2	Manufacturer's type designation			**EKX 410**	**EKX 412**	**EKX 514**	**EKX 516k**	**EKX 516**
	1.3	Drive			Electric				
	1.4	Operation			High level combination picker/stacker				
	1.5	Capacity/load	Q	kg	1.000	1.200	1.400	1.600	
	1.6	Load centre distance	c	mm	600				
	1.8	Load distance, centre of drive axle to fork	x	mm	450		445		
	1.9	Wheelbase	y	mm	1.807		1.840	1.950	2.220
Weights	2.1.1	Service weight (incl. battery)		kg	5.895		6.350	6.750	7.900
	2.2	Axle load laden front/rear		kg	5.400 / 1.705		5.720 / 1.880	6.190 / 2.060	6.590 / 2.810
	2.3	Axle load unladen front/rear		kg	3.450 / 2.445		3.850 / 2.500	3.980 / 2.770	4.480 / 3.420
Wheels/suspension system	3.1	Tyres			Besthane				
	3.2	Tyre size, front			Ø 295 x 144		Ø 380 x 192		
	3.3	Tyre size, rear			Ø 343 x 110		Ø 400 x 160		
	3.5	Wheels, number front/back (x=driven)			2 / 1 x		2 / 1x		
	3.6	Tread width, front	b_{10}	mm	1.106		1.258		
Basic dimensions	4.2	Retracted mast height (h1)	h_1	mm	2.850		2.955		
	4.4	Lift (h3)	h_3	mm	3.500				
	4.5	Extended mast height (h4)	h_4	mm	6.050				
	4.7	Height of overhead guard (cab)	h_6	mm	2.550				
	4.8	Seat height/stand height	h_7	mm	430				
	4.8.1	Stand height	h_7	mm	430				
	4.14	Stand height, elevated	h_{12}	mm	3.930				
	4.19	Overall length	l_1	mm	3.665		-		
	4.20	Length including fork shank	l_2	mm	3.369		3.379	3.489	3.759
	4.21	Overall width	b_1/ b_2	mm	1.210				
	4.22	Fork dimensions	s/e/l	mm	40 / 120 / 1.200		50 / 120 / 1.200		
	4.23	Fork carriage connection class			2B				
	4.24	Fork carriage width	b_3	mm	880				
	4.25	Width across forks (dimension 1), WaF	b_5	mm	856				
	4.29	Reach, lateral		mm	1.300				
	4.30	Reach, lateral from centre of truck		mm	480				
	4.31	Ground clearance laden under mast	m_1	mm	80				
	4.32	Ground clearance centre of wheelbase	m_2	mm	80				
	4.35	Turning radius	W_a	mm	2.122			2.232	2.502
	4.38	Order picking height		mm	5.530				
	4.38.4	Pallet width		mm	1.200				
	4.38.5	Pallet length		mm	1.200				
Performance data	5.1	Travel speed laden/unladen		km/h	10.5 / 10.5			12 / 12	
	5.2	Lift speed laden/unladen		m/s	0.40 / 0.40		0.45 / 0.45	0.60 / 0.60	
	5.3	Lowering speed laden/unladen		m/s	0.40 / 0.40		0.50 / 0.50		
	5.4	Reach speed laden/unladen		m/s	0.40 / 0.40		0.40 / 0.50		
	5.10	Service brake			regenerative				
	5.11	Parking brake			Electric sprung-loaded				

E-motor/Electronics	6.1	Drive motor, performance S2 60 min	kW	6.9		9		
	6.2	Lift motor, performance with S3	kW	10		25		
	6.3	Battery according to DIN 43531/35/36		6 PzS 750	6 PzS 930	3 PzS 465	4 PzS 620	6 PzS 930
	6.4	Battery voltage / nominal capacity	V / Ah	48 / 750	48 / 930	80 / 465	80 / 620	80 / 930
	6.5	Battery weight	kg	1.011	1.388	1.238	1.558	2.178
Miscellaneous	8.1	Type of drive control		AC synchronous reluctance				
	10.5	Steering version		electric				
	10.7	Sound level as per EN12053, operator's ear	dB (A)	64				

- In accordance with VDI Guideline 2198 this data sheet provides details of the standard truck only. Non-standard tyres, different masts, optional equipment, etc. may result in different values.

The German production facilities in Norderstedt, Moosburg and Landsberg are certified.

ISO 9001
ISO 14001

Jungheinrich fork lift trucks meet European safety requirements.

CE

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