



# **Automated Guided Vehicle System high rack stacker**

**EKX 514a / 516ka / 516a**

**Lift height: 11000-13000 mm / Capacity: 1400-1600 kg**

** JUNGHEINRICH**

# VDI table

Stand-on: 01/2020

		Jungheinrich				
Characteristic	1.1	Manufacturer (abbreviated description)				
	1.2	Manufacturer's type designation	<b>EKX 514a</b>	<b>EKX 516ka</b>	<b>EKX 516a</b>	
	1.3	Drive	Electric			
	1.4	Operation	Automatic			
	1.5	Capacity/load	Q kg	1.400		
	1.6	Load centre distance	c mm	600		
	1.8	Load distance, centre of drive axle to fork	x mm	445		
	1.9	Wheelbase	y mm	1.840	1.950	2.220
	Weights	2.1.1	Service weight (incl. battery)	kg	6.350	6.750
2.2		Axle load laden front/rear	kg	5.720 / 1.880	6.190 / 2.060	6.590 / 2.810
2.3		Axle load unladen front/rear	kg	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 380 x 192			
	3.3	Tyre size, rear	Ø 400 x 160			
	3.5	Wheels, number front/back (x=driven)	2 / 1x			
Basic dimensions	4.2	Retracted mast height (h1)	h <sub>1</sub> mm	2.955		
	4.4	Lift (h3)	h <sub>3</sub> mm	3.500	13.000	
	4.5	Extended mast height (h4)	h <sub>4</sub> mm	6.050		
	4.7	Height of overhead guard (cab)	h <sub>6</sub> mm	2.550		
	4.8.1	Stand height	h <sub>7</sub> mm	430		
	4.14	Stand height, elevated	h <sub>12</sub> mm	3.930		
	4.19	Overall length	l <sub>1</sub> mm	3.379	3.489	3.759
	4.20	Length including fork shank	l <sub>2</sub> mm	3.379	3.489	3.759
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub> mm	1.210		
	4.22	Fork dimensions	s/e/l mm	50 / 120 / 1.200		
	4.31	Ground clearance laden under mast	m <sub>1</sub> mm	80		
	4.35	Turning radius	W <sub>a</sub> mm	2.122	2.232	2.502
	4.38	Order picking height	mm	5.530		
Performance data	5.1	Travel speed laden/unladen	km/h	10.5 / 10.5	12 / 12	
	5.2	Lift speed laden/unladen	m/s	0.45 / 0.45	0.60 / 0.60	
	5.3	Lowering speed laden/unladen	m/s	0.50 / 0.50		
	5.10	Service brake	regenerative			
	5.11	Parking brake	Electric sprung-loaded			
E-motor/ Electronics	6.2	Lift motor, performance with S3	kW	25		
	6.3	Battery according to DIN 43531/35/36		3 PzS 465	4 PzS 620	6 PzS 930
	6.4	Battery voltage / nominal capacity	V / Ah	80 /		
	6.5	Battery weight	kg	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.



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The Jungheinrich logo, featuring a red upward-pointing arrow integrated into the letter 'J', followed by the brand name 'JUNGHEINRICH' in a bold, black, sans-serif font.