The Jungheinrich Advantage

Efficient 3-phase AC technology
There are now more than 400,000 Jungheinrich-built trucks with 3-phase AC technology in use worldwide. This level of experience and expertise is incorporated into our current motor and controller technology:
- High overall performance.
- Smooth, rapid acceleration during travel, lifting and lowering.
- Low power consumption.
- Effective thermal management.
- Reduced wear on components.
- Reduced maintenance.

Modular design
High flexibility through modular design, including:
- Large range of chassis and cabin width options.
- Flexible operating console concept.
- Rigid mast for increased durability.
- Optional mechanical rail guidance or wire guidance.

Energy management features
- Advanced energy and battery management results in longer runtime.
- Regenerative braking and lowering provides double energy-saving benefits.
- Workplace lighting using energy-saving LED working lights.
- Battery rollers for quick battery exchange.

Ergonomics and comfort
- Spacious operator platform.
- Low cabin platform height – only 9.7 inches.
- Ample headroom.
- Easy access to pallets during order picking.
- Outstanding field of vision through the mast.
- Height-adjustable operating console with generous storage space.
- Configurable membrane keyboard with numeric pad.
- Interactive display with programming keypad for easy use.
- Thumb-activated drive control.

Control system (CAN-Bus)
- All performance parameters can be adjusted to match the specific application needs.
- Electronically-controlled drive wheel braking.

Ease of serviceability
- Quick and reliable truck operation using "teach-in" truck set-up principles.
- Remote diagnostics using a modem.

Jungheinrich Warehouse Navigation System (optional)
- Identification of the picking destinations within the aisle via the truck controller.
- Automatic vertical and horizontal lift truck positioning.
- High degree of automation.
- Improved order-picking performance.
- Optimized truck movements.
- RFID location detection helps eliminate picking errors.
- Links the EKS to a Warehouse Management System (WMS) using a radio data terminal and/or a scanner.
- High flexibility in the warehouse as the existing WMS can be modified to cater to warehouse modifications.
- Activation of the LED spotlights upon reaching the picking destination (optional).

RFID floor control (optional)
- Truck location management by transponder technology.
- Continuous travel distance measurement for precise recognition of all warehouse areas.
- High flexibility for truck management functions (end of aisle recognition, lift/drive cut-outs, speed reduction).
- Drive speeds can be customized to the specific warehouse layout.

Additional options
- Mechanical rail guidance.
- Wire guidance for precise operation within the aisle without any mechanical stress on components.
- Workplace comfort package with LED internal cabin lighting, LED working lights and operator fan.
- Lift height pre-selection.
- Operator keypad access by PIN code.
- Auxiliary mast.


Ergonomic operator compartment

Parts when you need them
Jungheinrich's Parts Fast or Parts Free Guarantee ensures next-business-day delivery by 5:00 PM of all Jungheinrich parts in the United States, or they're free, including freight. For customers in Canada and Mexico, the guarantee ensures shipping of parts within 24 hours from the time the order was placed by the dealer. See your local Jungheinrich dealer for program details.

- Programs may be subject to change without notice and may vary by region. Please ask your local Jungheinrich dealer for complete terms and conditions.

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3-phase AC technology delivers high performance and increased energy efficiency

Ergonomic operator compartment with height-adjustable operator controls

High flexibility through modular design and RFID technology

Optional warehouse navigation system for customized travel time to a specific destination

EKS 208 / EKS 308

Mid- to high-level order picker (2,200 - 3,000 lbs.)

The EKS 208 / 308 order pickers offer high picking performance in high-rack warehouse applications. Both lift truck models are customized for their respective applications.

With load capacities up to 2,200 lbs. and order picking heights up to 236 inches, the EKS 208 is specially designed for flexibility in wide aisles. However, its narrow chassis size of just 35.5 inches in width offers maximum maneuverability in very narrow aisles as well.

The EKS 308 with 3,000 lbs. load capacity and order picking heights up to 402 inches offers high throughput performance.

Both order pickers set new standards in respect to flexibility, energy efficiency and ergonomics.

- There are a multitude of options available to match the EKS to your specific material handling application to better optimize ergonomics and productivity.
- The integrated Warehouse Navigation System (optional) allows direct communication between the order picker's control system and the Warehouse Management System (WMS). This feature allows the lift truck to be driven to all destinations under semi-automatic control. This results in easier operation, a reduction in movement errors and a significant improvement in productivity and picking efficiencies.
- The 3-phase AC technology ensures strong acceleration and high lifting speeds with low energy consumption.
- The spacious operator compartment provides ideal working conditions for ease of operation, resulting in greater productivity.
- The EKS 208 / 308 also includes a two-piece adjustable console for the operator, featuring a large informative electronic display of truck performance and status.

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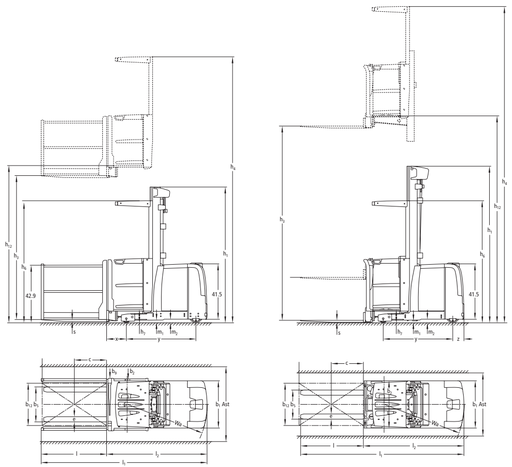
EKS 208 / EKS 308



Mast Table - EKS 208								
Designation	MFH		OALH		FFH		OAEH	
	in	*mm*	in	*mm*	in	*mm*	in	*mm*
Two-Stage Mast	118	*3,000*	92	*2,330*	0	*0*	210	*5,320*
	137	*3,500*	102	*2,580*	0	*0*	230	*5,820*
	167	*4,250*	117	*2,960*	0	*0*	259	*6,570*
Three-Stage Mast	187	*4,750*	92	*2,330*	0.4	*10*	279	*7,070*
	216	*5,500*	102	*2,580*	10	*260*	308	*7,820*
	236	*6,000*	109	*2,770*	17	*450*	328	*8,320*
Mast Table - EKS 308								
Two-Stage Mast	196	*5,000*	132	*3,330*	0	*0*	289	*7,320*
	216	*5,500*	142	*3,600*	0	*0*	308	*7,820*
	255	*6,500*	163	*4,125*	0	*0*	348	*8,820*
	295	*7,500*	183	*4,650*	0	*0*	387	*9,820*
	334	*8,500*	203	*5,150*	0	*0*	426	*10,820*
Three-Stage Mast	187	*4,750*	92	*2,330*	0.3	*10*	279	*7,070*
	216	*5,500*	102	*2,580*	10	*260*	308	*7,820*
	236	*6,000*	109	*2,770*	18	*450*	328	*8,320*
	255	*6,500*	117	*2,950*	25	*630*	348	*8,810*
	275	*7,001*	123	*3,120*	31	*800*	367	*9,320*
	295	*7,500*	132	*3,330*	40	*1,010*	387	*9,820*
	326	*8,300*	142	*3,600*	50	*1,280*	419	*10,620*
	364	*9,250*	163	*4,125*	71	*1,805*	456	*11,570*
	374	*9,500*	163	*4,125*	71	*1,805*	466	*11,820*

Technical data

as of: 11/2013

					Jungheinrich		Jungheinrich	
	1.1	Manufacturer (abbreviation)			Jungheinrich		Jungheinrich	
	1.2	Manufacturer's type designation			**EKS 208 – 24 Volt**		**EKS 208 – 48 Volt**	
	1.3	Drive			electric			
Characteristics	1.4	Operator type			order picker		order picker	
	1.5	Load capacity / rated load	Q	lb *kg*	2,200	*1,000*	2,200	*1,000*
	1.6	Load center distance	c	in *mm*	24	*610*	24	*610*
	1.8	Load distance, center of load axle to fork face	x	in *mm*	6.9	*175*	6.9	*175*
	1.9	Wheelbase	y	in *mm*	59.5	*1,500*	59.5	*1,500*
Weights	2.1	Service weight including battery		lb *kg*	6,500	*2,950*	6,500	*2,950*
	2.2	Axle loading, loaded front / rear		lb *kg*	6,900 / 2,025	*3,116 / 914*	6,900 / 2,025	*3,116 / 914*
	2.3	Axle loading, unloaded front / rear		lb *kg*	3,175 / 3,325	*1,440 / 1,510*	3,175 / 3,325	*1,440 / 1,510*
Wheels, Chassis	3.1	Tires			Vulkollan®			
	3.2	Tire size, load wheels	d_1	in *mm*	5.9 x 3.7	*150 x 95*	5.9 x 3.7	*150 x 95*
	3.3	Tire size, drive tire	d_2	in *mm*	9.8 x 3.1	*250 x 80*	9.8 x 3.1	*250 x 80*
	3.5	Number of tires: load wheels / drive tire			4 / 1			
	3.6	Track width		in *mm*	30.5	*780*	30.5	*780*
Dimensions	4.2	Closed mast height	h_1	in *mm*	92	*2,330*	92	*2,330*
	4.3	Lift height	h_3	in *mm*	118	*3,000*	118	*3,000*
	4.5	Overall extended height	h_4	in *mm*	210	*5,320*	210	*5,320*
	4.6	Height of overhead guard (cabin)	h_6	in *mm*	92	*2,320*	92	*2,320*
	4.7	Lowered platform height	h_7	in *mm*	9.7	*245*	9.7	*245*
	4.8	Maximum platform height	h_{12}	in *mm*	128	*3,245*	128	*3,245*
	4.9	Overall length (without load)	l_1	in *mm*	122	*3,085*	122	*3,085*
	4.10	Length to fork face	l_2	in *mm*	74.5	*1,885*	74.5	*1,885*
	4.11	Overall width	b_1 / b_2	in *mm*	35.5 / 35.5	*900 / 900*	35.5 / 35.5	*900 / 900*
	4.12	Fork dimensions	s / e / l	in *mm*	2 x 3.9 x 47	*50 x 100 x 1,200*	2 x 3.9 x 47	*50 x 100 x 1,200*
	4.13	Width across forks	b_5	in *mm*	22	*560*	22	*560*
	4.14	Width across guide rollers (minimum)		in *mm*	43.5	*1,100*	43.5	*1,100*
	4.15	Ground clearance, loaded, under mast	m_1	in *mm*	1.9	*50*	1.9	*50*
	4.16	Ground clearance, center of wheelbase	m_2	in *mm*	2.3	*60*	2.3	*60*
	4.17	Minimum aisle width for pallet 48" x 40" - rail		in *mm*	48	*1,220*	48	*1,220*
	4.18	Minimum aisle width for pallet 48" x 40" - wire		in *mm*	52	*1,321*	52	*1,321*
	4.19	Turning radius	Wa	in *mm*	65	*1,650*	65	*1,650*
Performance	5.1	Travel speed, loaded / unloaded		mph *km/h*	5.9	*9.6*	6.5 / 6.5	*10.5 / 10.5*
	5.2	Lift speed, loaded / unloaded		ft/min *m/s*	53 / 61	*0.27 / 0.31*	57 / 61	*0.29 / 0.31*
	5.3	Lowering speed, loaded / unloaded		ft/min *m/s*	66 / 61	*0.34 / 0.31*	66 / 61	*0.34 / 0.31*
	5.4	Service brake			reverse current / regenerative			
	5.5	Parking brake			electric spring loaded			
Electrical	6.1	Drive motor rating S_2 60 min.		hp *kW*	4.0	*3.0*	4.0	*3.0*
	6.2	Lift motor rating at S_3 25%		kW/hp *kW*	8.0	*6.0*	12.6 / 9.5	*9.5*
	6.4	Battery compartment size (L x W x H)		in *mm*	17.7 x 33.2 x 32.1	*845 x 450 x 817*	17.7 x 33.2 x 32.1	*845 x 450 x 817*
	6.5	Battery voltage, nominal capacity	k_5	V *Ah*	48	*500*	48	*500*
	6.7	Minimum battery weight		lbs *kg*	1,980	*900*	1,980	*900*
Other Details	8.1	Type of drive control			AC drive control			
	8.4	Sound level at the driver's ear according to ANSI / ITSDF B56.1		dB (A)	58		58	
	8.6	Steering			electric			

Right reserved for technical changes and improvements
*) tentative data
**) tandem wheels
***) +30 mm in combination with PPS

Non-standard tires, different masts, additional equipment, etc., could produce other values. Rights reserved for technical changes and improvements.

					Jungheinrich		Jungheinrich		Jungheinrich	
	1.1	Manufacturer (abbreviation)			Jungheinrich		Jungheinrich		Jungheinrich	
	1.2	Manufacturer's type designation			**EKS 308 – 24 Volt**		**EKS 308 – 36 Volt**		**EKS 308 – 48 Volt**	
	1.3	Drive			electric					
Characteristics	1.4	Operator type			order picker		order picker		order picker	
	1.5	Load capacity / rated load	Q	lb *kg*	3,000	*1,360*	3,000	*1,360*	3,000	*1,360*
	1.6	Load center distance	c	in *mm*	24	*610*	24	*610*	24	*610*
	1.8	Load distance, center of load axle to fork face	x	in *mm*	5.9	*150*	5.9	*150*	5.9	*150*
	1.9	Wheelbase	y	in *mm*	67	*1,690*	67	*1,690*	67	*1,690*
Weights	2.1	Service weight including battery		lb *kg*	8,300	*3,750*	8,300	*3,750*	8,300	*3,750*
	2.2	Axle loading, loaded front / rear		lb *kg*	8,000 / 2,675	*3,624 / 1,207*	8,000 / 2,675	*3,624 / 1,207*	8,000 / 2,675	*3,624 / 1,207*
	2.3	Axle loading, unloaded front / rear		lb *kg*	4,175 / 4,100	*1,890 / 1,860*	4,175 / 4,100	*1,890 / 1,860*	4,175 / 4,100	*1,890 / 1,860*
Wheels, Chassis	3.1	Tires			Vulkollan®					
	3.2	Tire size, load wheels	d_1	in *mm*	5.9 x 3.7	*150 x 95*	5.9 x 3.7	*150 x 95*	5.9 x 3.7	*150 x 95*
	3.3	Tire size, drive tire	d_2	in *mm*	13.5 x 4.3	*345 x 110*	13.5 x 4.3	*345 x 110*	13.5 x 4.3	*345 x 110*
	3.5	Number of tires: load wheels / drive tire			4 / 1					
	3.6	Track width		in *mm*	34.5	*880*	34.5	*880*	34.5	*880*
Dimensions	4.2	Closed mast height	h_1	in *mm*	132	*3,330*	132	*3,330*	132	*3,330*
	4.3	Lift height	h_3	in *mm*	196	*5,000*	196	*5,000*	196	*5,000*
	4.5	Overall extended height	h_4	in *mm*	289	*7,320*	289	*7,320*	289	*7,320*
	4.6	Height of overhead guard (cabin)	h_6	in *mm*	92	*2,320*	92	*2,320*	92	*2,320*
	4.7	Lowered platform height	h_7	in *mm*	9.7	*245*	9.7	*245*	9.7	*245*
	4.8	Maximum platform height	h_{12}	in *mm*	206	*5,245*	206	*5,245*	206	*5,245*
	4.9	Overall length (without load)	l_1	in *mm*	129	*3,275*	129	*3,275*	129	*3,275*
	4.10	Length to fork face	l_2	in *mm*	82	*2,075*	82	*2,075*	82	*2,075*
	4.11	Overall width	b_1 / b_2	in *mm*	39.5 / 39.5	*1,000 / 1,000*	39.5 / 39.5	*1,000 / 1,000*	39.5 / 39.5	*1,000 / 1,000*
	4.12	Fork dimensions	s / e / l	in *mm*	2 x 3.9 x 47	*50 x 100 x 1,200*	2 x 3.9 x 47	*50 x 100 x 1,200*	2 x 3.9 x 47	*50 x 100 x 1,200*
	4.13	Width across forks	b_5	in *mm*	22	*560*	22	*560*	22	*560*
	4.14	Width across guide rollers (minimum)		in *mm*	47.5	*1,200*	47.5	*1,200*	47.5	*1,200*
	4.15	Ground clearance, loaded, under mast	m_1	in *mm*	1.9	*50*	1.9	*50*	1.9	*50*
	4.16	Ground clearance, center of wheelbase	m_2	in *mm*	2.3	*60*	2.3	*60*	2.3	*60*
	4.17	Minimum aisle width for pallet 48" x 40" - rail		in *mm*	48	*1,220*	48	*1,220*	48	*1,220*
	4.18	Minimum aisle width for pallet 48" x 40" - wire		in *mm*	52	*1,321*	52	*1,321*	52	*1,321*
	4.19	Turning radius	Wa	in *mm*	73.5	*1,860*	73.5	*1,860*	73.5	*1,860*
Performance	5.1	Travel speed, loaded / unloaded		mph *km/h*	5.5	*9.0*	7.1	*11.5*	7.1 / 7.1	*11.5 / 11.5*
	5.2	Lift speed, loaded / unloaded		ft/min *m/s*	55 / 68	*0.28 / 0.35*	61 / 76	*0.31 / 0.39*	68 / 76	*0.35 / 0.39*
	5.3	Lowering speed, loaded / unloaded		ft/min *m/s*	76 / 72	*0.39 / 0.37*	76 / 72	*0.39 / 0.37*	76 / 72	*0.39 / 0.37*
	5.4	Service brake			regenerative					
	5.5	Parking brake			electric spring loaded					
Motors	6.1	Drive motor rating S2 60 min.		hp *kW*	9.2	*6.9*	9.2	*6.9*	9.2	*6.9*
	6.2	Lift motor rating at S3 25%		kW/hp *kW*	8.0	*6.0*	10.0	*7.5*	12.6 / 9.5	*9.5*
	6.4	Battery compartment size (L x W x H)		in *mm*	21.2 x 37.2 x 32.1	*945 x 540 x 817*	21.2 x 37.2 x 32.1	*945 x 540 x 817*	21.2 x 37.2 x 32.1	*945 x 540 x 817*
	6.5	Battery voltage, nominal capacity	k_5	V *Ah*	48	*500*	48	*500*	48	*500*
	6.7	Minimum battery weight		lbs *kg*	1,980	*900*	1,980	*900*	1,980	*900*
Other Details	8.1	Type of drive control			AC drive control					
	8.4	Sound level at the driver's ear according to ANSI / ITSDF B56.1		dB (A)	63		63		63	
	8.6	Steering			electric					

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**) tandem wheels
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