

2.8-kW AC drive motor

Electronically controlled hydraulic motor for sensitive and proportional lifting and lowering

Electric tiller steering and Curve Control ensure easy steering

9 km/h travel speed (optional) for high throughput

Safe travel stance with side arms (optional)

Additional support arm lift gives increased ground clearance



ERC 212z/214z/216z

Electric Pedestrian Controlled Truck with Support Arm Lift (1200/1400/1600 kg)

The ERC 212z/214z/216z electric pedestrian controlled truck combines the manoeuvrability of a pedestrian controlled stacker with a fast and comfortable stand-on truck. The electronically controlled lift motor ensures quiet and gentle lifting and lowering of loads at the touch of a button. It also features a powerful 24-volt AC drive motor. The optimum efficiency of this motor ensures powerful acceleration and high speeds combined with low consumption levels.

The support arm lift is a special feature, it ensures effortless operation on uneven floors and ramps with additional ground clearance – even with full load. Two pallets

can also be transported at the same time, thus doubling throughput compared to transporting one pallet (optional).

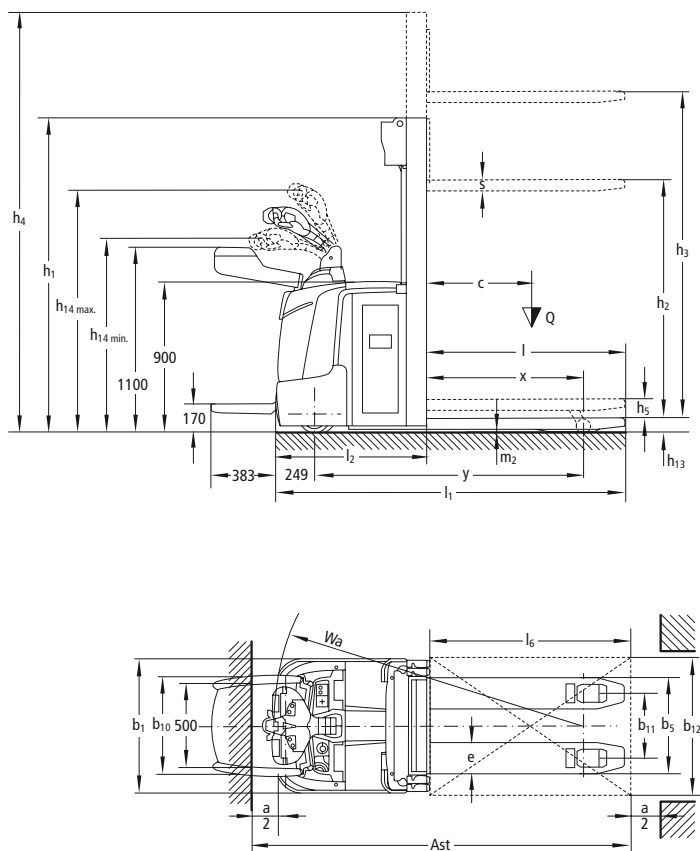
With the ride-on option, the ERC also offers cost effective transportation of goods over long distances. The cushioned stand-on platform provides effective relaxation for the operator. Electric steering also ensures fatigue-free steering of the ERC. Curve Control automatically reduces travel speed around bends for safety.

Depending on the application, an additional speed version is available (optional): The 9-km/h version: This model of the ERC

comes with side arms which help keep the operator secure on the stand-on platform even when cornering. It is ideal for transport tasks over long distances.

Batteries with capacities of up to 375 Ah plus the option of side battery removal for multi-shift operation ensure that the ERC will have high uptime even in the most challenging conditions. An on-board charger (optional) allows easy and reliable battery charging at any 230-V mains socket.

ERC 212z/214z/216z



Standard mast types (mm)												
Designation	Closed height	Free lift	Lift height	Extended height	Closed height	Free lift	Lift height	Extended height	Closed height	Free lift	Lift height	Extended height
	h_1^*	h_2	h_3	h_4	h_1^*	h_2	h_3	h_4	h_1^*	h_2	h_3	h_4
ERC 212z				ERC 214z				ERC 216z				
Two-stage mast ZT	1750	100	2500	2975	1750	100	2500	2975	1750	100	2400	2925
	1850	100	2700	3175	1850	100	2700	3175	1850	100	2600	3125
	1950	100	2900	3375	1950	100	2900	3375	1950	100	2800	3325
	2100	100	3200	3675	2100	100	3200	3675	2100	100	3100	3625
	2300	100	3600	4075	2300	100	3600	4075	2300	100	3500	4025
	—	—	—	—	—	—	—	—	2450	100	3800	4325
	—	—	—	—	2550	100	4100	4575	2550	100	4000	4525
	—	—	—	—	2650	100	4300	4775	2650	100	4200	4725
Two-stage mast ZZ	1700	1227	2500	2975	1700	1225	2500	2975	1700	1175	2400	2925
	1900	1427	2900	3375	1900	1425	2900	3375	1900	1375	2800	3325
	2050	1577	3200	3675	2050	1575	3200	3675	2050	1525	3100	3625
	2250	1777	3600	4075	2250	1775	3600	4075	2250	1725	3500	4025
	—	—	—	—	2500	2025	4100	4575	2500	1975	4000	4525
	—	—	—	—	2600	2125	4300	4775	2600	2075	4200	4725
Three-stage mast DZ	1915	1408	4300	4807	1830	1348	4090	4572	1830	1298	3990	4522
	2050	1543	4700	5212	1900	1418	4300	4782	1900	1368	4200	4732
	—	—	—	—	2030	1548	4690	5172	2030	1498	4590	5122
	—	—	—	—	2250	1768	5350	5832	2250	1718	5250	5782

* ZT mast with 100 mm free lift

Technical data in line with VDI 2198 as at: 06/2011

Identification	1.1	Manufacturer (abbreviation)		Jungheinrich	Jungheinrich	Jungheinrich	1.1
	1.2	Manufacturer's type designation		ERC 212z	ERC 214z	ERC 216z	1.2
	1.3	Drive		electric	electric	electric	1.3
	1.4	Operator type		pedestrian	pedestrian	pedestrian	1.4
	1.5	Load capacity/rated load	Q (t)	1.2	1.4	1.6	1.5
	1.6	Load centre distance	c (mm)	600 ⁴⁾	600 ⁴⁾	600 ⁴⁾	1.6
	1.8	Load distance (Centre of load axle to fork face)	x (mm)	910 ²⁾	910 ²⁾	910 ²⁾	1.8
	1.9	Wheelbase	y (mm)	1571 ⁴⁾	1592 ⁴⁾	1592 ⁴⁾	1.9
	Weights	2.1	Service weight incl. battery (see line 6.5)	kg	1260	1320	1320
2.2		Axle loading, laden front/rear	kg	1190/1270	1260/1460	1300/1620	2.2
2.3		Axle loading, unladen front/rear	kg	950/310	990/330	990/330	2.3
Wheels, Chassis	3.1	Tyres		VU	VU	VU	3.1
	3.2	Tyre size, front	mm	Ø230x77	Ø230x77	Ø230x77	3.2
	3.3	Tyre size, rear	mm	Ø85x95 / 75	Ø85x95 / 75	Ø85x95 / 75	3.3
	3.4	Additional wheels (dimensions)	mm	Ø180x75	Ø180x75	Ø180x75	3.4
	3.5	Wheels, number front rear (x = driven wheels)		1x +1/2	1x +1/2	1x +1/2	3.5
	3.6	Track width, front	b ₁₀ (mm)	507	507	507	3.6
	3.7	Track width, rear	b ₁₁ (mm)	385	385	385	3.7
Basic Dimensions	4.2	Closed mast height	h ₁ (mm)	1950	1950	1950	4.2
	4.3	Free lift	h ₂ (mm)	100	100	100	4.3
	4.4	Lift (standard mast)	h ₃ (mm)	2900	2900	2800	4.4
	4.5	Height, mast extended	h ₄ (mm)	3375	3375	3325	4.5
	4.6	Initial lift	h ₅ (mm)	122	122	122	4.6
	4.9	Height of tiller in drive position min./max.	h ₁₄ (mm)	1158/1414	1158/1414	1158/1414	4.9
	4.15	Height, lowered	h ₁₃ (mm)	90	90	90	4.15
	4.19	Overall length	l ₁ (mm)	2060 ²⁾	2081 ²⁾	2081 ²⁾	4.19
	4.20	Length to face of forks	l ₂ (mm)	910 ²⁾	931 ²⁾	931 ²⁾	4.20
	4.21	Overall width	b ₁ /b ₂ (mm)	800/–	800/–	800/–	4.21
	4.22	Fork dimensions	s/e/l (mm)	56/185/1150	56/185/1150	56/185/1150	4.22
	4.25	Width across forks	b ₅ (mm)	570	570	570	4.25
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	20	20	20	4.32
	4.33	Aisle width for pallets 1000x1200 crossways	Ast (mm)	2266 ¹⁾	2287 ¹⁾	2287 ¹⁾	4.33
	4.34	Aisle width for pallets 800x1200 lengthways	Ast (mm)	2316 ⁵⁾	2337 ⁵⁾	2337 ⁵⁾	4.34
	4.35	Turning radius	Wa (mm)	1826 ⁴⁾	1847 ⁴⁾	1847 ⁴⁾	4.35
Performance Data	5.1	Travel speed, laden/unladen	km/h	9.0/9.0 ⁶⁾	9.0/9.0 ⁶⁾	9.0/9.0 ⁶⁾	5.1
	5.2	Lift speed, laden/unladen	m/s	0.13/0.22	0.16/0.25	0.15/0.25	5.2
	5.3	Lowering speed, laden/unladen	m/s	0.43/0.37	0.37/0.34	0.37/0.34	5.3
	5.8	Max. gradeability, laden/unladen	%	10/16	9/16	8/16	5.8
	5.10	Service brake		electric	electric	electric	5.10
E-Motor	6.1	Drive motor rating S ₂ 60 min.	kW	2.8	2.8	2.8	6.1
	6.2	Lift motor rating at S ₃ 10%	kW	2.0 ⁷⁾	3.0 ³⁾	3.0 ³⁾	6.2
	6.3	Battery acc. to DIN 43531/35/36 A, B, C, no		B 3 PzS	B 3 PzS	B 3 PzS	6.3
	6.4	Battery voltage, nominal capacity K ₅	V/Ah	24, 375	24, 375	24, 375	6.4
	6.5	Battery weight	kg	294	294	294	6.5
	6.6	Energy consumption acc. to VDI cycle	kWh/h	1.08	1.25	1.7	6.6
Others	8.1	Type of drive control		AC SpeedControl	AC SpeedControl	AC SpeedControl	8.1
	8.4	Sound level at the driver's ear according to EN 12 053	dB(A)	68	68	68	8.4

- 1) diagonal in accordance with VDI +368 mm
2) DZ: x -42 mm; l₁ +42 mm; l₂ +42 mm
3) at S₃ 11%
4) lowered +54 mm
5) diagonal in accordance with VDI +204 mm
6) without side arms: with/without load 6.0/6.0 km/h
7) at S₃ 12%

Make use of the advantages

Better performance combined with reduced operating costs

- High efficiency levels with excellent energy management.
- Powerful acceleration.
- Quick travel direction change.
- SpeedControl – no rolling back on inclines.
- No carbon brushes – maintenance-free drive motor.



ERC 216z – pallet side entry

Flexible options

Two variants for a range of different applications:

Version 1 – folding stand-on platform without side arms.

- Travel speed of 6 km/h when stand-on platform is folded down.
- Travel speed of 4.4 km/h when stand-on platform is folded up.

Version 2 – folding stand-on platform with side arms (optional).

- 9 km/h travel speed is ideal for driving long distances, thus increasing throughput.

Easy stacking and retrieval

All lifting and lowering operations are easily controlled without having to reach around by

the multi-functional control handle. The lift motor is electronically controlled. It allows the forks to be positioned precisely when stacking or retrieving and ensures significantly reduced noise when lifting. Proportional hydraulics provide exact and gentle depositing. In confined spaces the stand-on platform and side arms can simply be folded in and the ERC can be used as a pedestrian truck.

Versatile support arm lift

A second lifting mechanism is used to raise the support arms independently of the forks. This allows the ERC 212z/214z/216z to negotiate uneven floors, ramps, and loading docks effortlessly. Additional advantage: double-decker transport of two pallets simultaneously (optional).



Double-decker mode (optional)

Sturdy design

The ERC is designed for high-throughput operation:

- 8-mm steel chassis.
- Enclosed chassis perimeter.
- Solid mast with high residual capacities.

Comfortable and safe operation

- The electric tiller steering is particularly precise and allows for easy steering and fa-

tigue-free operation, even in tight spaces. Curve Control automatically reduces the speed around bends if the speed is too high for the steering angle.

- The cushioned stand-on platform accommodates even major surface unevenness, removing the strain on the operator's spine.
- Soft lined side arms (optional) ensure a comfortable posture around bends.
- The low platform height ensures easy entry/exit.

Long uptimes

Large battery capacities for long uptimes:

- MX battery compartment: 2 PzS 250 Ah.
- LX battery compartment: 3 PzS 375 Ah.
- The on-board charger (24V/30A) for wet cell batteries and maintenance-free batteries ensure easy charging at any 230-V mains socket (optional).
- Standard side battery removal is useful for intensive multi-shift operation.



Side battery removal

Optional equipment

- CanDis control.
- CanCode access authorisation.
- Cold store version.
- Load guard.
- Gentle load depositing.
- Fork skid wear protection.

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