Designed and Built in the USA by
Linde Material Handling North America Corporation

Electric Center Ride Pallet Truck

ECR27 6000 lbs. and ECR36 8000 lbs.

1102 Series / 24 Volts

Linde Material Handling

Design

Maximum operator comfort and productivity define the design parameters of this truck series. The 1102 series features a large, fully cushioned operator platform. All models are equipped with soft touch operator accelerator control twist grips as well as an adjustable steering column.

Frame

Truck frames feature fixed platform height and all seam-welded unitized construction. Plate steel contoured to shape for rigid strength provides maximum durability and protection for all vital components. The battery compartment is an integral part of the chassis, further adding strength to the frame.

Forks

All forks are heavy-duty, one piece channel fork design. All forks feature wide skid bars, sloped toe and bolt-on pallet entry/exit rollers for improved performance.

Fork linkage

High strength, solid steel, rectangular tie bars connect to load wheel shackles to lifting toggles. The 7/8 inch diameter linkage pins and Teflon coated/oil-impregnated linkage bushings are designed to withstand severe shock and stress. Zerk grease fittings are standard for fast lubrication and are accessible while the truck is in the upright position.

Drive motor

The 1102 series features a 24 volt, high power, AC drive motor. This high performance motor allows for maximum productivity and excellent reliability. Extended maintenance intervals for motors and complete drive systems are a direct result of new AC technology.

Drive unit

The 1102 series is fitted with heavy-duty, bottom-mounted Kordel drive units. They feature a top seal turntable bearing with encapsulated ball bearings easily lubricated from the top down. These high capacity drive units are precision-machined utilizing heat-treated chromium alloy steel gears for maximum life and dependability.

Travel control

The Curtis AC motor controller provides exceptional flexibility by providing user tailored parameters to meet a wide variety of application requirements. The controller provides efficient use of battery voltage and has an extremely wide torque and speed range. In addition, full regeneration capability, smooth low speed control, and zero speed ramp hold applications are realized. Environmental protection is enhanced by the robust construction of the controller and the use of sealed wiring harness connectors to prevent moisture and contaminants from interrupting truck operation in all environments. Advanced diagnostics and real time operating system status is possible through the use of a handheld programmer or through PC programming station software.

Operator controls

The operator control handle features heavy-duty cast design and construction. Soft-touch accelerator twist grips govern travel direction and speed and feature automatic return to neutral. Integral, easy-to-use, push button control switches actuate the horn.

Motor compartment cover

The 1102 series features a thermoplastic one-piece, lift off motor compartment cover. This style cover is a product of the latest scientific advances in the field of chemistry. In addition to their resistance to rust and corrosion, these covers offer superior impact strength, durability, lifelong proper fit. The same rugged material is used today by most large construction machinery OEM's.

Brake system

Smooth, controlled braking is accomplished by one of four methods:

1. Applying the hand brakes
2. Auto brake
3. Regenerative braking
4. Stepping off rider platform

Technical Data

March 2015

Characteristics	1.1	Manufacturer		Linde	Linde
	1.2	Model designation (ITA Class)		ECR 27	ECR 36
	1.3	Power unit, electric, diesel, LP gas, AC		Electric	
	1.4	Operator type/steering		rider stand/electric	
	1.5	Load capacity	lb (kg)	6000 (2721)	8000 (3628)
	1.6	Load center	in (mm)	varies	
	1.9a	Wheelbase, raised (96 in. extended tip)	in (mm)	102.9 (2614)	102.9 (2614)
	1.9b	Wheelbase, lowered (96 in. extended tip)	in (mm)	105.7 (4686)	105.7 (4686)
Wgt.	2.6a	Weight, without battery	lb (kg)	2130 (966)	2130 (966)
	2.6b	Weight, with min. battery	lb (kg)	3030 (1374)	3030 (1374)
chassis	3.1	Tire type, front/middle/rear, R=rubber, P=poly		P/P/P	
	3.2	Tire size, front (drive)		12 x 4	
	3.3a	Tire size, rear (total number/load)		2/3.25 x 6.4	
	3.3b	Tire size, rear (total number/caster)		2/3.0 x 5.0	
	3.5	Wheels, front/middle/rear (x = driven)		1x /2/2	
Dimensions	4.4	Fork lift	in (mm)	6 (152)	
	4.7	Overall truck height	in (mm)	56.5 (1435)	
	4.15	Fork height, lowered (tip/battery box)	in (mm)	3.25 (83)	
	4.18	Fork width (standard/extended tip)	in (mm)	10 (254)	
	4.19	Total length (96 in. fork length)	in (mm)	149.4 (3794)	
	4.20	Fork length	in (mm)	96 (2438)	
	4.21	Overall width	in (mm)	33.5 (851)	
	4.35a	Turning radius, raised (96 in. extended tip)	in (mm)	110.6 (2808)	
	4.35b	Turning radius, lowered (96 in. extended tip)	in (mm)	114.5 (2908)	
	4.39	Fork spread, outside (96 in. extended tip)	in (mm)	23/28 (584/711)	
	4.40	Head length, front to fork face	in (mm)	53.4 (1357)	
	4.41	Skirt or bumper height	in (mm)	11.5 (293)	
	4.42	Skirt or bumper clearance	in (mm)	2.6 (65)	
Perform -ance	5.1	Travel speed, with/without Load	mph (kmh)	7/9.5 (8.8/11.7)	6.4/9.5 (8.0/11.7)
	5.7	Gradeability, with load	%	6	4
	5.10	Brake System, Type		hydraulic	
Drive	6.0	Battery compartment, w1 x 1	in	13.5 x 32.75	
	6.1b	Drive motor size, diameter	in	6.63 (168)	
	6.1c	Pump motor size, diameter	in	4.3(109)	
	6.3	Battery voltage	V	24	
	6.3a	Amp hours, recommended	Ah	750	
	6.5	Battery Weight, minimum	lb (kg)	900 (408)	
	6.7	Gear Ratio		19.65:1	
	6.8	Travel Control, Standard		AC	
Other	9.1	Platform Depth	in (mm)	16 (406)	
	9.2	Platform Width	in (mm)	33.5 (851)	
	9.3	Platform Height, lowered	in (mm)	9.4 (238)	
	9.4	Platform Height, raised	in (mm)	9.4 (238)	

Standard equipment

Programmable microprocessor-based G.E. transistor travel control

Multifunction dash display
G.E. SEM drive motor
Regenerative braking
Operator presence switch
Rubber, anti-fatigue mat
Horn/key switch
Knee pad
Lean seat
On-board diagnostics
Sealed harness connectors
Soft-touch handle

Optional equipment

Wheels and tires
Battery compartment rollers
Storage tray (available with shrink wrap holder)
Backrest control module
Easy pick system
Cold storage/corrosion protection
Travel/backup alarm
Travel/backup flashing lights

Check with dealer/factory for additional equipment availability.

For more information on Linde material handling equipment, please contact:

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