



## Electric Center Ride Pallet Truck

ECR60 6000 lbs. and ECR80 8000 lbs.

ECR Series / 24 Volts

Linde Material Handling

*Linde*

### Design

Maximum operator comfort and productivity define the design parameters of this truck series. The ECR model 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 24-volts equipped ECR model features G.E. separately excited drive motor (SEM). This high performance motor features class H insulation, is open-ventilated for energy efficient, cool operation. Excellent performance, dependability, control and lowest possible energy consumption are provided through the utilization of quality materials and the matching of motor to drive system. Four long-life motor brushes interface with the diamond-turned commutator.

### Drive unit

The ECR 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

Microprocessor-based G.E. transistor travel controls are offered as standard equipment. These ultramodern electronic controls eliminate forward/reverse

contactors, numerous relays, resistors and diodes. Standard control features include two unique speed limits, anti-rollback and regenerative braking. The controls are fully programmable to allow for specific application requirements and feature diagnostic capability with stored fault codes. Sealed wiring harness connectors prevent moisture and contaminants from interrupting truck operation in all environments. In combination with the G.E. SEM drive motor, the electronic package delivers unbeatable truck control and performance with unrivalled energy efficiency.

### 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 lift/lower and horn.

### Motor compartment over

The ECR series features a thermoplastic elastomer 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 three methods:

1. Applying the hand brakes
2. Auto brake
3. Regenerative braking

# Technical Data

June 2010

Characteristics	1.1	Manufacturer		Linde	Linde
	1.2	Model designation (ITA Class)		ECR 60	ECR 80
	1.3	Power unit, electric, diesel, LP gas, AC		Electric	
	1.4	Operator type/steering		rider stand/manual	
	1.5	Load capacity	lb (kg)	6000 (2721)	8000 (3628)
	1.6	Load center	in (mm)	varies	
Wgt.	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)
chassis	2.6a	Weight, without battery	lb (kg)	1800 (816)	1800 (816)
	2.6b	Weight, with min. battery	lb (kg)	2650 (1202)	2650 (1202)
	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	
Dimensions	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	
	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)		
Performance	5.1	Travel speed, with/without Load	mph (kmh)	5.5/7.3 (8.8/11.7)	5.0/7.3 (8.0/11.7)
	5.7	Gradeability, with load	%	10	5
	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	450	
	6.5	Battery Weight, minimum	lb (kg)	850 (385)	
	6.7	Gear Ratio		18:1	
	6.8	Travel Control, Standard		G.E. SEM	
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  
 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

Multifunction dash display  
 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.



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ANSI: Standard truck meets all applicable mandatory requirements of ANSI S54.1 standards for powered industrial trucks.  
 NOTE: Performance data may vary due to motor and system efficiency tolerances. The performance depicted represents nominal values obtained under typical operating conditions. Metric dimensions are in millimeters unless otherwise specified. All metric dimensions are not direct equivalents due to rounding data. The descriptions and specifications included on this data sheet were in effect at the time of printing. Linde Material Handling North America Corporation reserves the right to make improvements and changes in specification or design without notice and without incurring obligation. Please check with your authorized Linde dealer for information on possible updates or revisions.

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