

Manufacturer's Data and Design Characteristics

January 2002



		Manufacturer	Linde	Linde
Characteristics	1.1	Model Designation (ITA Class)	ECR60	ECR80
	1.2	Load Capacity lb (kg)	6,000 (2,721)	8,000 (3,628)
	1.3	Load Center Lc in (mm)	Varies	Varies
	1.4	Power Unit Electric, Diesel, LP, CNG	Electric	Electric
	1.5	Operator Position, Walkie, Rider/Stand, Rider/Sitdown	Stand-up Rider	Stand-up Rider
	1.6	Tire Type F/M/R, R=Rubber, P=Poly	P/P/P	P/P/P
	1.7	Wheels Front/Middle/Rear (x = driven)	1 x /2/2	1 x /2/2
	1.8	Steering, Power/Manual	Manual	Manual
Dimensions	2.1	Total Length, (96 in. Fork Length) l4 in (mm)	149.4 (3,794)	149.4 (3,794)
	2.2	Overall Width w in (mm)	33.5 (851)	33.5 (851)
	2.3	Outside Fork Spread, (96 in. Extended Tip) w2 in (mm)	23/28 (584/711)	23/28 (584/711)
	2.4	Overall Truck Height h6 in (mm)	56.5 (1,435)	56.5 (1,435)
	2.5	Turning Radius Raised, (96 in. Extended Tip) TR in (mm)	110.6 (2,808)	110.6 (2,808)
	2.6	Turning Radius Lowered, (96 in. Extended Tip) TR in (mm)	114.5 (2,908)	114.5 (2,908)
	2.7	Fork Lift H in (mm)	6 (152)	6 (152)
	2.8	Fork Lowered Height, Tip/Battery Box s in (mm)	3.25 (83)	3.25 (83)
	2.9	Fork Width, (Standard/Extended Tip) w3 in (mm)	10 (254)	10 (254)
	2.10	Fork Length l3 in (mm)	96 (2,438)	96 (2,438)
	2.11	Head Length, front to fork face in (mm)	53.4 (1,357)	53.4 (1,357)
	2.12	Skirt or Bumper Height H8 in (mm)	11.5 (293)	11.5 (293)
	2.13	Skirt or Bumper Clearance H9 in (mm)	2.6 (65)	2.6 (65)
Operator	3.1	Platform Depth in (mm)	16 (406)	16 (406)
	3.2	Platform Width in (mm)	33.5 (851)	33.5 (851)
	3.3	Platform Height, Lowered in (mm)	9.4 (238)	9.4 (238)
	3.4	Platform Height, Raised in (mm)	9.4 (238)	9.4 (238)
Performance	4.1	Travel Speed, With/Without Load mph (kmh)	5.5/7.3 (8.8/11.7)	5.0/7.3 (8.0/11.7)
	4.2	Gradeability, With Load %	10	5
Weight	5.1	Weight, Without Battery lb (kg)	1,800 (816)	1,800 (816)
	5.2	Weight, With Min. Battery lb (kg)	2,650 (1,202)	2,650 (1,202)
Chassis	6.1	Tire Size, Drive (Front) in (mm)	12 x 4	12 x 4
	6.2	Tire Size, Total Number/Load (Rear) in (mm)	2 / 3.25 x 6.4	2 / 3.25 x 6.4
	6.3	Tire Size, Total Number/Caster in (mm)	2 / 3.0 x 5.0	2 / 3.0 x 5.0
	6.4	Wheel Base Raised, (96 in. Extended Tip) WB in (mm)	102.9 (2,614)	102.9 (2,614)
	6.5	Wheel Base Lowered, (96 in. Extended Tip) WB in (mm)	105.7 (2,686)	105.7 (2,686)
	6.6	Brake System, Type	Hydraulic	Hydraulic
Drive	7.1	Battery Compartment, w1 x l in	13.5 x 32.75	13.5 x 32.75
	7.2	Voltage V	24	24
	7.3	Amp Hours, Recommended Ah	450	450
	7.4	Battery Weight, Minimum lb	850 (385)	850 (385)
	7.5	Drive Motor Size, Diameter in	6.63 (168)	6.63 (168)
	7.6	Pump Motor Size, Diameter in	4.3 (109)	4.3 (109)
	7.7	Travel Control, Standard	GE SEM	GE SEM
	7.8	Gear Ratio	18:1	18:1

Standard Equipment:

- Programmable microprocessor-based G.E. transistor travel control
- G.E. SEM drive motor
- Regenerative braking
- Ramp anti-rollback
- 7/8 in. nickel-plated linkage pins
- Operator presence switch
- Heavy-duty, Teflon-coated, oil-impregnated linkage bushings
- Rubber, anti-fatigue mat
- Horn/key switch
- Lift cut-out at maximum fork height
- Knee pad
- Lean seat
- On-board diagnostics
- Sealed harness connectors
- Yellow zinc-plated casters
- Soft-touch handle

Optional Equipment:

- Multifunction dash display
- Wheels and tires
- Battery compartment rollers
- Storage tray (available with shrink wrap holder)
- Button package (lift, lower, horn and reverse)
- Easy pick system
- Cold storage/corrosion protection
- Travel/backup alarm
- Travel/backup flashing light
- U.L. EE construction

Contact dealer/manufacturer for additional equipment availability.



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ANSI CLASSIFICATION:

Standard truck meets all applicable mandatory requirements of ANSI/ASME B56.1-1993 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 Lift Truck 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.

01/02/5M/CCG



Electric Center Ride Pallet Truck

ECR60 24-Volts 6,000 lbs.

ECR80 24-Volts 8,000 lbs.



Introduction

This modern truck series offers the following outstanding features:

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 toes and bolt-on pallet entry/exit rollers for improved performance.

Fork linkage

High strength, solid steel, rectangular tie bars connect the load wheel shackles to the lifting toggles. The 7/8 in. 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(s) are in the upright position.

Drive motor

The 24-volt equipped ECR model features G.E. separately excited drive motor (SEM). These high performance motors, featuring class H insulation, are 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 covers

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 and are made from 100 percent recyclable material. The same rugged material is used today by most large construction machinery OEMs.

Brake system

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

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

Hydraulic system

An integral hydraulic pump/motor assembly, featuring a large, translucent, poly tank that can be sight checked for hydraulic oil level, is mounted vertically to the truck frame. Pump/motor assembly are well-protected and easy to service.