



Electric Center Ride Tow Tractor

200 lbs. dbp (drawbar pull)

ETR Series / 24 Volts

Linde Material Handling



Design

Maximum operator comfort and productivity define the design parameters of this truck series. The ETR 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.

Drive motor

The 24-volts equipped ETR 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 ETR 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 the horn.

Motor compartment cover

The ETR 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

June 2010

Characteristics		Manufacturer	Linde	
	1.1	Model Designation (ITA Class)	ETR	
	1.2	Load Capacity, Base	lb dbp	200
	1.3	Load Capacity, Maximum	lb dbp	750
	1.4	Power Unit, Electric, Diesel, LP, CNG	Electric	
	1.5	Operator Position, Walkie, Rider/Stand, Rider/Sit-down	rider/stand	
	1.6	Tire Type, Front/Rear, R=Rubber, P=Poly	R/R	
	1.7	Wheels, Front/Rear (x = driven)	1 x /2	
	1.8	Steering, Power/Manual	Manual	
Dimensions	2.1	Total Length	l4 in (mm)	55.9 (1,419)
	2.2	Overall Width	w in (mm)	33.5 (851)
	2.3	Overall Truck Height	h6 in (mm)	53.8 (1,367)
	2.4	Turning Radius	TR in (mm)	42.2 (1,073)
	2.5	Skirt or Bumper, Height	H8 in (mm)	11.5 (293)
	2.6	Skirt or Bumper, Clearance	H9 in (mm)	2.6 (65)
Operator	3.1	Platform Depth	in (mm)	16 (406)
	3.2	Platform Width	in (mm)	33.5 (851)
	3.3	Platform Height	in (mm)	9.4 (238)
Per- form- ance	4.1	Travel Speed, With/Without Load	mph (kmh)	5.5/7.3 (8.8/11.7)
	4.2	Gradeability, With Load	%	10
Wgt.	5.1	Weight, Without Battery	lb (kg)	1,000 (453)
	5.2	Weight, With Min. Battery	lb (kg)	1,850 (839)
Chassis	6.1	Tire Size, Drive (Front)	in (mm)	12 x 4
	6.2	Tire Size, Total Number/Trail (Rear)	in (mm)	2 / 3.0 x 5.0
	6.3	Wheel Base	WB in (mm)	35.2 (894)
	6.4	Brake System, Type	Hydraulic	
Drive	7.1	Battery Compartment, w1 x l	in	13.5 x 32.75
	7.2	Voltage	v	24
	7.3	Amp Hours, Recommended	Ah	450
	7.4	Battery Weight, Minimum	lb	850 (385)
	7.5	Drive Motor Size, Diameter	in	6.63 (168)
	7.6	Gear Ratio	18:1	
	7.7	Travel Control, Standard	G.E. SEM	

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 ANSISDF B56.1 standards for powered industrial trucks.
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