



Electric Center Ride Tow Tractor

200 lbs. dbp (drawbar pull)

ETR 45

1103 Series / 24 Volts

Linde Material Handling



Design

Maximum operator comfort and productivity define the design parameters of this truck series. The 1103 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.

Drive motor

The 1103 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 1103 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 1103 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

January 2015

Characteristics	1.1	Manufacturer			KION	
	1.2	Model designation			ETR45	
	1.3	Drive			Electric	
	1.4	Operator type			Stand on	
	1.5.1	Trailing load	lb	kg	10000	4535
	1.9	Wheel base	in	mm	33.6	853
Weight	2.1	Service weight, without battery/with min battery	lb	kg	1400 / 2300	635 / 1043
	2.3	Axle loading, with/without load	lb	kg	1200 / 1200	544 / 544
Wheels & Tires	3.1	Tires, front/rear			Cushion / Polyurethane	
	3.2	Tire size, front	in	mm	12 x 4	305 x 101
	3.3	Tire size, rear	in	mm	2 / 6 x 4.5	2 / 152 x 114
	3.5	Wheels, number (x=driven) front/rear			1 x / 2	
	3.7	Track width, rear	in	mm	24.3	617
Dimensions	4.1	Coupling height	in	mm	4 - 16.2	101 - 412
	4.2	Coupling length	in	mm	3.8	96
	4.2.1	Overall length	in	mm	55.9	1419
	4.2.3	Overall width	in	mm	33.5	851
	4.3	Ground clearance, center of wheel base	in	mm	2.5	63.5
	4.4	Turning radius	in	mm	42.2	1072
	4.8	Platform height	in	mm	9.4	238
	4.9	Height of steering in driving position	in	mm	41	1041
Performance	5.1	Travel speed, with/without load	mph	kmh	5 / 9.5	8 / 15.3
	5.1.1	Service Brake			Hydraulic	
	5.5	Drawbar pull, with load	lb	kg	200	91
	5.6	Max. drawbar pull load	lb	kg	750	340
	5.7	Gradeability, with load	%		4	
Power	6.1	Drive motor, rating 60 min	hp	kw	4.8	3.6
	6.4	Battery Voltage	V		24	
	6.5	Battery weight, min./max.	lb	kg	900 / 1500	408 / 680
Other	8.1	Type of drive unit			Curtis AC	

Standard equipment

AC Drive Motor	Knee pad
AC Steering	Lean seat
Regenerative braking	On-board diagnostics
Operator presence switch	Sealed harness connectors
Rubber, anti-fatigue mat	Soft-touch handle
Horn/key switch	Multifunction dash display

Optional equipment

Wheels and tires	Travel/backup alarm
Battery compartment rollers	Travel/backup flashing lights
Storage tray (available with shrink wrap holder)	Front work light
Backrest control module	Blue spot
Easy pick system	UL EE rating
Cold storage/corrosion protection	Keyless On/Off

Check with dealer/factory for additional equipment availability.

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

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