

PRODUCT DESCRIPTION



With 4 and 7 ton nominal towing capacity the dependable Clark CTX40/70 electric tow tractor is the ideal choice for many applications. Whenever an efficient transport of multiple trailer loads is required, the rugged construction ensures durability and consistent reliability throughout the application. The operator's compartment provides a safe and comfortable working environment.

Operator's Compartment

Access to the ergonomically designed operators compartment is easy via a low positioned entry. A full width rubber floor covering in the footwell area is totally undisturbed and prevents slippage. The impressive leg room, the adjustable steering column with two spoke steering wheel together with an easy-to-adjust, yet comfortable CLARK-seat, allow perfect adaptation to any driver.

All control elements are placed in easy-grip position. Large accessible storage compartments as well as quick access to an ideally positioned automotive style hand brake and emergency stop button complete this impressive operator's compartment. A generous 200kg capacity storage area (767mm width x 420mm length) located behind the driver's seat allows easy storage of ancillary items.

The battery charge indicator is located within easy view of the operator giving instant battery condition information at all times.

The optional inching function allows smooth approach to the trailer for easy hook up. Slow creep speed is available via the optional creep speed function allowing full customization of the tractor to every application.

Motor, drive and control

A powerful 3.0 kW AC motor (CTX40) or 6.0kW (CTX70) driving the rear wheels and 48 Volt three-phase current technology ensure excellent acceleration, smooth control and high performance. The maintenance free AC motors ensure running costs are kept to a minimum.

The temperatures of the motors and controller are constantly monitored with the power being automatically adjusted to prevent design limits being exceeded. The ZAPI AC controls are easily accessible and equipped with modern MOSFET and CAN-bus technology. Competitive travel speeds, even under load are a major feature of the CTX range of towtractors from CLARK.

Brake system

Three independent brake systems (electrical, foot and parking brake) ensure increased efficiency through improved utilization of the battery capacity and high levels of safety. The foot and parking brake provides constant brake performance in all conditions. The regenerative electrical brakes returns energy to the battery during each braking action. This process saves energy costs, reduces brake wear and extends the driving time per battery charge.

If the driving direction is changed by operation of the direction lever, the electronics ensures gentle braking and progressive acceleration in the new direction of travel. The drum brakes are protected against aggressive particles. The standard ramp start feature enables controlled operation of the truck on gradients and precise handling on loading platforms.

The parking brake is connected via a Bowden cable directly to the drum brake.

Steering system

An extremely small turning radius of 1700mm is possible due to the large steering angle. Full soft yet precise control is still possible even with the steering on full lock.

Durable frame for long life

The CTX series from CLARK is designed to „Build to Last“ and is characterized by an especially strong frame construction, making it suitable for the toughest applications. The center of gravity of the chassis is extremely low giving excellent stability when cornering.

Additional standard equipment

Front working lights, combination rear lights incorporating brake and reversing lights. Paintwork in the bright safety colour „CLARK Green“, rims in white, hydraulic drum brake, storage cargo box with 200kg of carrying capacity, ribbed steering wheel with spinner knob.

Options

Solid-tires, cabins, inching switch, creep switch, back up alarm, Reverse mirror

Certification

The CTX40/70 series is CE certified and corresponds to all European safety standards.

Talk to your CLARK dealer to find the optimum equipment for you.

CLARK Europe GmbH

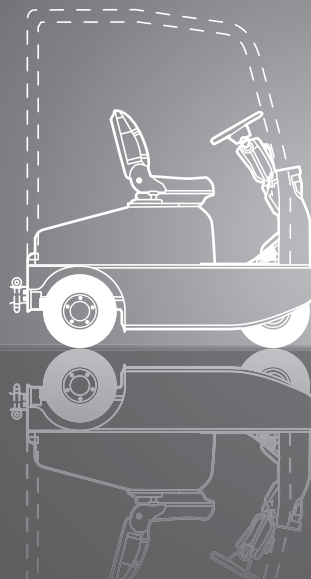
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En 01/2011



CTX40/70

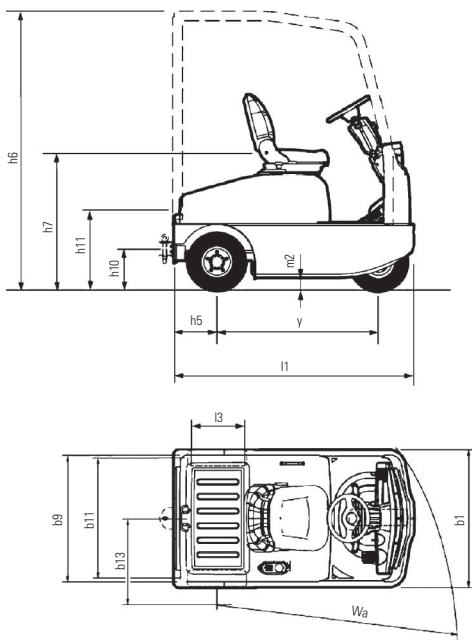
48 V Electric Tow Tractor
Pneumatic Tires
4.000 kg 7.000 kg



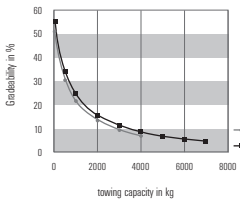
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DIMENSIONS

CTX40/70



Gradeability



The gradeability diagram shows the combination of towing capacity and gradeability of the tow tractor.
Talk to your Clark dealer to find out more about your individual application.
Note: At friction coefficient $\mu=0.6$ with 1.5 km/h

SPECIFICATIONS

Product Specifications acc. to VDI 2198

| | 1.1 Manufacturer (abbreviation) | CLARK | CLARK | |
|--------------------|---|---|------------|---------------|
| Specifications | 1.2 Manufacturer's type designation | CTX40 | CTX70 | |
| | 1.3 Drive, electric, diesel, petrol, fuel gas | Elec-48V | Elec-48V | |
| | 1.4 Operator type, hand, pedestrian, seated, standing | seated | seated | |
| | 1.5 Load capacity / rated load | 0 (t) | 4 | |
| | 1.7 Rated drawbar pull | N | 785 | |
| | 1.9 Wheelbase | y (mm) | 1160 | 1393 |
| Weight | 2.1 Service weight | kg | 910 | |
| | 2.3 Axle loading, unladen front / rear | kg | 390/520 | |
| Tires, Chassis | 3.1 Tire type, P=pneumatic, SE=superelastic, C=cushion *1 | P | P | |
| | 3.2 Tire size, front | 4.00-8/6PR | 4.00-8/6PR | |
| | 3.3 Tire size, rear | 4.00-8/6PR | 4.00-8/6PR | |
| | 3.5 Wheels, number front/rear (x=drive wheels) | 1/2x | 1/2x | |
| Dimensions | 3.7 Tread, rear | b11 (mm) | 870 | |
| | 4.7 Height overhead guard (cabin) | h6 (mm) | 2035 | |
| | 4.8 Seat height | h7 (mm) | 920 | |
| | 4.12 Coupling height | h10 (mm) | 295 | |
| | 4.13 Loading height, unladen | h11 (mm) | 605 | |
| | 4.16 Length of loading surface | l3 (mm) | 420 | |
| | 4.17 Overhang | l5 (mm) | 310 | |
| | 4.18 Width of loading surface | b9 (mm) | 767 | |
| | 4.19 Overall length/With Hinge/Without Hinge | l1 (mm) | 1830/1730 | |
| | 4.21 Overall width | b1, b2 (mm) | 895 | |
| Performance | 4.32 Ground clearance, center of wheelbase | m2 (mm) | 90 | |
| | 4.35 Turning radius | Wa (mm) | 1700 | |
| | 4.36 Minimum pivoting point distance | b13 (mm) | 551 | |
| | 5.1 Travel speed laden/unladen | km/h | 9/13 | |
| | 5.6 Max. drawbar pull laden/unladen *2 | N | -/5394 | |
| | 5.8 Max. Gradeability laden/unladen *2 | % | -/51.1 | |
| | 5.10 Service brake | | Drum brake | |
| | Drive line | 6.1 Drive motor rating, S2 60min | kW | 3.0 |
| | | 6.3 Battery acc. To DIN 43531/35/36 A.B.C. no | | DIN 43531 A |
| | | 6.4 Battery voltage / nominal capacity KS | V/AH | 48/270 |
| 6.5 Battery weight | | kg | 400 | |
| Miscellaneous | | 8.1 Drive motor control | | Inverter / AC |
| | 8.4 Sound level, driver's ear *3 | dB (A) | 68.4 | |
| | 8.5 Towing coupling, class/type DIN | | ball | |

*1 Optional with super-elastic tires *2 At friction coefficient $\mu=0.6$ with 1.6 km/h *3 acc. to DIN EN 12053