

BULL 10

ELECTRIC TRACTORS

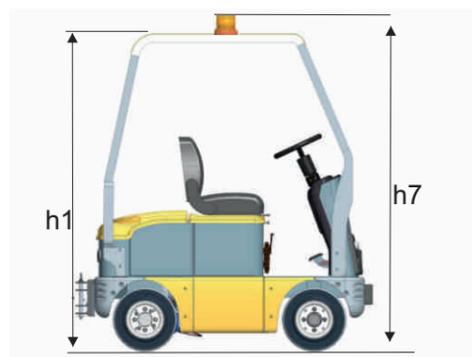
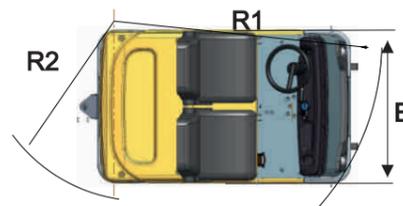
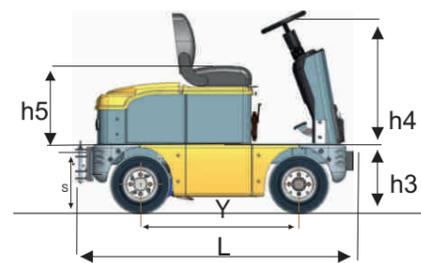


BULL 10

ELECTRIC TRACTORS

Bull 10 is a four-wheel tractor designed for continuous, heavy-duty service and features a 10-ton towing capacity. Also suitable for outdoor use, in which case it is equipped with cab, it is closed in the lower part or protected where exposed to wet ground.

The tractor components are designed for the intended use and include a hydraulic steering system and a cylinder to operate the steering wheels. Front and rear suspensions minimize the vibrations caused by irregular terrain and transmitted to the operator, who sits on a cushioned seat that provides optimum conditions in which to work. The cab is generously sized and soundproofed. The transmission system features an axle with differential, which supports a high-power AC motor controlled by an AC electronic system ensuring gradual acceleration, delicate manoeuvres and regenerative braking. The braking system includes three circuits: a circuit for the front hydraulic drum brakes, a circuit for the rear hydraulic drum brakes and electronic regenerative braking. On request, the machine can be equipped with numerous optional: starting by badge, cabs of various kinds, Rockinger hitch with or without unhitching device on board, no-marking wheels, double seat and many other items. BULL 10 can be fitted with a loading platform of different standard dimensions. On request, platforms can also be made with dimensions and characteristics to suit the customers' requirements. The platform deck can be covered in various materials and fitted with side panels of different sizes and characteristics. Our standard side panels are like the ones on trucks. They are made of aluminium and can be opened. As well as the loading platform, BULL 10 NP can be equipped with a cab and various types of wheels.



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| CHARACTERISTICS | | dim.un. | |
|---------------------------|-----------------------------------|---------|-------------------------|
| Manufacturer | | | Bull10 |
| Model | | | |
| Platform loading capacity | Nominal capacity | Kg. | ---- |
| Pull capacity | Load nominal capacity | Kg. | 10000 |
| Power type | Electric/Endothermic | | Eleltr. |
| Control type | Pedestrian/stand-on/Seated | | sitting |
| Tyres | Pn - pneum. / se - superel. | | Se-Se |
| Wheels | Number front/rear X=drive | Nr. | 4 - 2/2x |
| Platform dimensions | L x B (length x width) | mm. | ---- |
| DIMENSIONS | | | |
| | h= machine body height | mm. | ---- |
| | L= length | mm. | 1692 |
| | B=width | mm. | 1020 |
| | h 3 = feet panel height | mm. | 470 |
| | h 4 = steering/handle height | mm. | 780 |
| | h 2 = thiller height | mm. | ---- |
| | h 5 = seat height | mm. | 470 |
| | h 6 = turning light height | mm. | ---- |
| | h 7 = cabin turning light height | mm. | 2100 |
| | h 1 = cabin height | mm. | 1960 |
| | h 9 = cabin width | mm. | 1020 |
| Turning radius | R1= front min. external | mm. | 2010 |
| | R2=rear min. external | mm. | 1520 |
| | R3=rear min.internal | mm. | 545 |
| Aisle width | U-turn | mm. | 3900 |
| Hook height | s = hook center to ground | mm. | 240-310-380 |
| PERFORMANCE | | | |
| Speed | Without / with load | Km/h | 16-8 |
| Tractive effort | Continuative work 60' | N. | 2100 |
| | Max in plane x 5" | N. | 7500 |
| Gradeability | Without/width | % | 20-4 |
| Weight | With battery | Kg. | 1500 |
| Axles load | Front/rear with battery | Kg. | 700-800 |
| TRACTION | | | |
| Wheels | Front diam./ width | mm. | 400-125 |
| | Rear diam / width | mm. | 400-125 |
| Wheelbase | y = pitch | mm. | 1060 |
| Trach | C posterior wheels center | mm. | 876 |
| Grund clearance | clearance at half chassis | mm. | 120 |
| Working brake | Mecc./hydraul./eletr. | | hydraul. |
| | Brake axes number | N. | 2 |
| Parking brake | Mecc./hydraul./eletr. | | Eleltr. |
| Suspensions | Spring/laf spring/schock absorber | | schock absorber |
| POWER SUPPLY | | | |
| Battery | Type | | Reinforced |
| | Capacity | V/Ah. | 48-375(C5) |
| | Weight | Kg. | 560 |
| Electric motor | Translation, power S2=60° | Kw. | 8 AC |
| Electric system | electronic control | | Inverter AC/Inverter AC |
| Steering | Mecc./hydraul./eletr. | | hydraul. |
| Transmission | Mecc. | | Mechanics |
| Towing hook | manual - automatic | | Manual |
| Autonomy | working hours with medium work | h. | 6-8 |



BULL 10

Electric arc welded steel sheet forms a rigid bearing structure. The special shape allows the components to be very easily accessed. The cushioned box-shaped sheet metal front axle comprises hubs, bushes and pins of remarkable size and precision.

DRIVE UNIT: comprises a differential specifically designed for reliable and silent operation and a long-lasting, high-performance AC motor.

The motor has an encoder and thermal valve that dialogue with the electronic control system. The rear axle is linked to the chassis by connecting rods, while the chassis itself is cushioned on the axle by rubber shock-absorbers.

STEERING SYSTEM: a hydraulic cylinder operated by a controller and driven by a power steering unit ensures smooth steering within a small space.

ELECTRIC SYSTEM: mainly consists of an AC electronic controller and motor. The system provides power at low speeds, an optimum maximum speed and controlled movements, controlled speed during descents, energy recovery when braking, regenerative braking. Brake system: hydraulic drum brakes on the four wheels for an excellent braking action and absolute reliability in all conditions. Mechanical parking brake.

WHEELS: 4.00-8 superelastoc tyres on modular rims.

INSTRUMENTATION: complete motor car type instrumentation including low battery warning indicator, hours worked and fault indicators, hare / tortoise indicator, horn, light switch, turn indicator switch, rear control buttons.

POWER SUPPLY: a 48 V 375 A battery with considerable autonomy allows the tractor to operate for a long period of time and thanks to its large capacity, will not normally be subjected to stress. This makes it extremely long-lasting.

SAFETY DEVICES: seat occupancy micro, maximum speed selector on request, battery quick release device, battery safety retainer, double brake circuit, AC system for speed control, automatic parking brake.

