

ELECTRIC TRACTORS



BULL 7AR BULL 7AR CAB

The **BULL 7AR** tractor is a four-wheel tractor designed for continuous use on outdoor terrain that is not always smooth and flat. It has a towing capacity of 7 tonnes on flat ground and excellent towing performance on ramps smooth and flat.

It has a towing capacity of 7 tonnes on flat ground and excellent towing performance on ramps.

When equipped with a cab, either open or closed with transparent polyvinyl chloride (PVC) doors, it is suitable for outdoor work even in adverse weather conditions.

Designed for outdoor use, it is equipped with front and rear suspension, making it more comfortable for the operator. The front axle is not only cushioned but also tiltable, so that the Bull 7 AR can easily overcome obstacles, steps or uneven terrain.

In addition to the suspension, the operator is also protected from vibrations and jolts by the cushioned seat.

A second seat for a passenger can be installed on request second seat for a passenger can be installed on request.

The light steering, suitable for off-road use, is hydraulic: a special hydraulic pump feeds a jack, which in turn is connected to the wheel spindles.

These front spindles and rear axle shafts carry four hydraulic drum brakes. Braking therefore consists of three braking systems: one circuit for the front brakes, one for the rear brakes and one for regenerative braking when the accelerator is released.

The transmission consists of a bridge with a spheroidal cast iron differential on which a powerful AC motor is mounted of considerable power and watertight, as is the electromagnetic parking brake.

Everything is controlled by an electronic system that interacts with the operator via various driving controls as well as a DEC display through which the machine interacts with the operator for various functions.

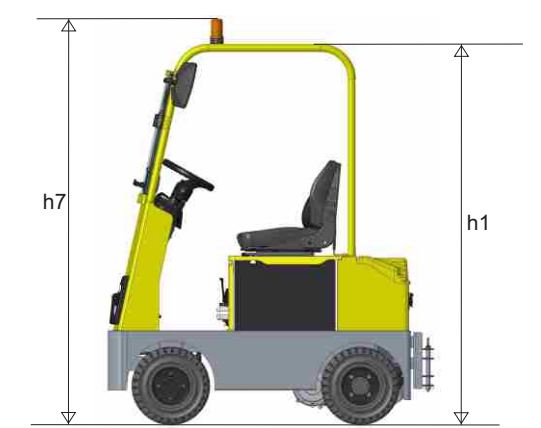
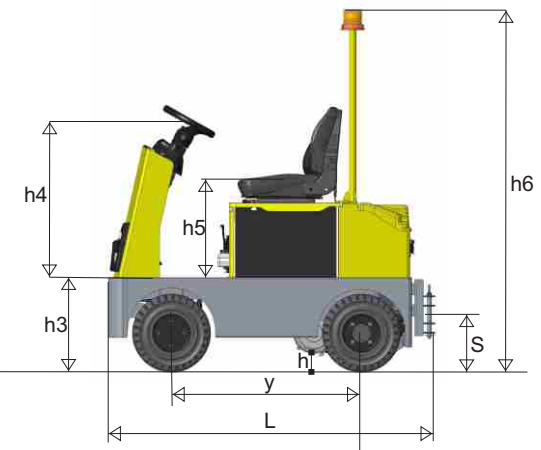
These include speed programming, speed display, battery charge, service and any alarms.

Autonomy is ensured by a battery which, in the acid/lead version, delivers 48 V 320 A , meaning the machine can easily operate for an entire average daily work cycle.

The machine can be equipped with various optional extras to enhance its efficiency. Passenger seat. Rear power socket, seven-pin socket for trailers, USB socket on the dashboard, blue spot, work light, tow hooks of various shapes and many others.



ELECTRIC TRACTORS



DEC Spa • Via Omero 89 - 41123 Modena - Italy
Tel. +39 059 373222 - Fax +39 059 374199 - info@dec-modena.com
www.dec-modena.com

BULL 7AR BULL 7AR CAB

CHARACTERISTICS		dim.un.	
Manufacturer	DEC		
Model			BULL 7AR
Platform loading capacity	Nominal capacity	Kg.	-----
Pull capacity	Load nominal capacity	Kg.	7000
Power type	Electric/Endothermic		Electric
Control type	Pedestrian/stand-on/Seated		Seated
Tyres	Pn - pneum. / se - superel.		Se-Pn
Wheels	Number front/rear X=drive	Nr.	2 / 2x
Platform dimensions	L x B (lenght x width)	mm.	-----
DIMENSIONS			
	h= machine body hight	mm.	92
	L= lenght without/with hook	mm.	1565 / 1685
	B=width	mm.	955
	h 3 = feet panel hight	mm.	490
	h 4 = steering/handle hight	mm.	810
	h 2 = thiller hight	mm.	-----
	h 5 = seat hight	mm.	505
	h 6 = turning light hight	mm.	1870
	h 7 = cabin turning light hight	mm.	2100
	h 1 = cabin hight	mm.	1970
	h 9 = cabin width	mm.	940
Turning radius	R1= front min. external	mm.	1660
	R2=rear min. external	mm.	1250
	R3=rear min.internal	mm.	270
Aisle width	U-turn	mm.	3000
Hook hight	s = hook center to ground	mm.	230-300-370
PERFORMANCE			
Speed	Without / with load	Km./h	14-8
Drawbar pull	Continuative work 60'	N.	3000
	Max in plane x 5'	N.	5800
Gradeability	Without / with load	%	18 - 6
Weight	With battery	Kg.	1160
Axles load	Front/rear with battery	Kg.	530 - 630
TRACTION			
Wheels	Front diam./ width	mm.	400 - 100
	Rear diam./ width	mm.	400 - 100
Wheelbase	y = pitch	mm.	980
Trach	C posterior wheels center	mm.	840
Ground clearance	clearence at half chassis	mm.	180
Working brake	Mecc./hydraul./elettr.		Hydraulic
	Brake axles number	N.	2
Parking brake	Mecc./hydraul./elettr.		Elettr.
Suspensions Front/Rear	Spring/laf spring/schock absorber		schock absorber
POWER SUPPLY			
Battery	Type		Reinforced
	Capacity	V./Ah.	48-320(C5)
	Weight	Kg.	500
Electric motor	Translation,power S2=60°	Kw.	4,5 AC
Electric system	electronic control		Inverter AC
Steering	Mecc./hydraul./elettr.		Hydraulic
Transmission	Mecc./hydraul.		Mechanics
Tow hook	manual - automatic		Manual
Autonomy	working hours witm medium work	h.	8



BULLZAR - BULL 7AR CAB

CHASSIS: thick metal sheets create a rigid supporting structure and protect the machine from accidental impacts. A special paint finish provides corrosion protection.

SUSPENSION: the front and rear axles are cushioned by special bumpers. In particular, the front is supported by a structure that allows the axle to tilt and vertical movement.

At the rear, the rigid axle transmission is also supported by special bumpers.

The wheels are super-elastic or large pneumatic tyres.

TRANSMISSION: a differential axle with a directly flanged AC motor drives the vehicle. The asynchronous motor is equipped with an encoder that interfaces with the electronic control system, allowing the system to adjust the speed according to the driver's requirements in all conditions of use.

ELECTRICAL SYSTEM: an AC chopper controls the motor's performance.

The entire chopper/traction motor/brake system can be programmed via the console in order to achieve optimal performance for the specific task at hand.

BRAKING SYSTEM: a hydraulic pump, operated by the operator's foot pedal, controls the four hydraulic disc brakes via two circuits. The electrical system also operates the motor as a brake when the accelerator is released: in this case, braking is regenerative.

INSTRUMENTATION: complete with automotive-type instrumentation, including a display showing battery charge, hours worked, any faults, hare/tortoise, service status.

Under the steering wheel there is a double-lever switch that allows the lights, indicators, horn and gear control to be activated. There is also a control panel where various service controls are wired when present on the vehicle.

DRIVER'S SEAT: the driver's seat is large, cushioned and equipped with a seat belt and micro presence sensor. A second passenger seat can be installed on request. It is equipped with automotive-style pedals and hydraulic steering.

POWER SUPPLY: a 48 V 320 A battery ensures the tractor has a long operating time.

SAFETY DEVICES: seat micro-presence sensor with seat belt, speed selector, quick battery disconnect device, battery safety retainer, dual braking circuit, AC speed control system, mechanical parking brake, redundant electronic components

