



ELECTRIC TRACTORS

BULL 4/4W

The **BULL 4/4W** is a four-wheel towing tractor designed for absolute stability and safety in the presence of slopes, kerbs and irregular ground.

Although small in size, the machine can transport two persons. Despite their four wheels, its turning radius is very tight. This means that the machine can work just as well both indoors and outdoors. The tractor can towing 5 tons, respectively, and is able to climb fairly steep slopes. The control unit and motors feature the AC system, allowing the motor to not only drive the machine but also to act as a regenerative brake. The instrumentation includes a battery charge indicator, hours worked and fault indicator. The machine is complete with sidelights, horn and, on request, a cab with or without doors in PVC. A high frequency battery charger can be installed on board on request.



BULL 4/4W

CHASSIS: in electric arc welded tubular steel forming a rigid bearing structure.

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

DRIVER'S POSITION: designed to provide an optimum level of comfort, includes a generously sized seat with seat belt and a storage compartment. The dashboard features an instrument that signals the battery charge status and hours worked. Ignition key, reverse lever and light switch complete the equipment.

STEERING SYSTEM: features a worm-and-rack steering box. Precise yet light. Controls the two front wheels and obtains an optimum steering action.

WHEELS: four good size wheels with superelastic rubber tyres guaranteeing long life and wheel grip without foregoing driver comfort. No-marking wheels are available on request.

ELECTRIC SYSTEM: mainly consists of a mosfet electronic control unit. The chopper energizes the A.C. motor and achieves precise, sophisticated control over movements. It controls the machine when climbing up and down slopes so that its speed complies with the operator's requirements and allows the motor to function as a regenerative brake. Besides ensuring that the machine is extremely agile and driveable, the system also enhances its functionality and ensures long-lasting use.

CHARACTERISTICS		dim.un.	
Manufacturer			
Model		Bull4-4w	
Platform loading capacity	Nominal capacity	Kg.	-----
Pull capacity	Load nominal capacity	Kg.	5000
Power type	Electric/Endothermic	Elettr.	
Control type	Pedestrian/stand-on/Seated	sitting	
Tyres	Pn - pneum. / se - superel.	Se-Se	
Wheels	Number front/rear X=drive	Nr.	4/2x
Platform dimensions	L x B (length x width)	mm.	-----
DIMENSIONS			
	h= machine body hight	mm.	-----
	L= length	mm.	1600
	B=width	mm.	960
	h 3 = feet panel hight	mm.	380
	h 4 = steering/handle hight	mm.	780
	h 2 = thiller hight	mm.	-----
	h 5 = seat hight	mm.	440
	h 6 = turning light hight	mm.	1620
	h 7 = cabin turning light hight	mm.	2070
	h 1 = cabin hight	mm.	1930
	h 9 = cabin width	mm.	1075
Turning radius	R1= front min. external	mm.	1700
	R2=rear min. external	mm.	1300
	R3=rear min. internal	mm.	350
Aisle width	U-turn	mm.	3400
Hook hight	s = hook center to ground	mm.	240-320-520
PERFORMANCE			
Speed	Without / with load	Km./h	12-4
Tractive effort	Continuative work 60'	N.	1800
	Max in plane x 5°	N.	3500
Gradeability	Without/width	%	12-4
Weight	With battery	Kg.	740
Axles load	Front/rear with battery	Kg.	210-530
TRACTION			
Wheels	Front diam./ width	mm.	312-116
	Rear diam./ width	mm.	400-125
Wheelbase	y = pitch	mm.	1170
Trach	C posterior wheels center	mm.	760
Graund clearance	clearence at half chassis	mm.	120
Working brake	Mecc./hydraul./elettr.	hydraul.	
	Brake axes number	N.	1
Parking brake	Mecc./hydraul./elettr.	Elettr.	
Suspensions	Spring/laf spring/schock absorber	-----	
POWER SUPPLY			
Battery	Type	Reinforced	
	Capacity	V./Ah.	24-300(C5)
	Weight	Kg.	220
Electric motor	Translation.power S2=60°	Kw.	3,5 AC
Electric system	electronic control	Inverter AC	Inverter AC
Steering	Mecc./hydraul./elettr.	Mechanics	
Transmission	Mecc.	Mechanics	
Towing hook	manual - automatic	Manual	
Autonomy	working hours witm medium w	h.	6-8

