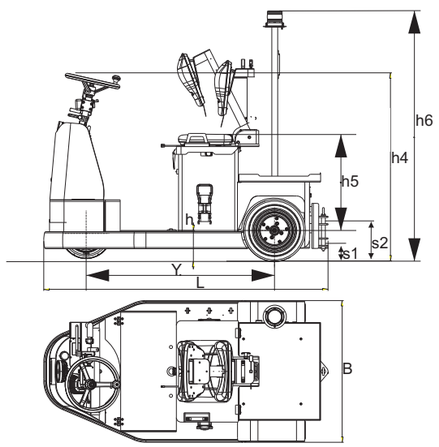
BULL D

CHARACTERISTICS		dim.un.	
Manifacturer			
Model			BULL Double
Platform loading capacity	Nominal capacity	Kg.	200
Pull capacity	Load nominal capacity	Kg.	5000
Power type	Electric/Endothermic		electric
Control type	Pedestrian/stand-on/Seated		seated/stand on
Tyres	Pn - pneum. / se - superel.		se/pn
Wheels	Number front/rear X=drive	Nr.	3-1/2x
Platform dimensions	h6 (lenght x width)	mm.	626-526
DIMENSIONS			
	h= machine body hight	mm.	83
	L= lenght	mm.	1836
	B=width	mm.	916
	h 3 = feet panel hight	mm.	200
	h 4 = steering/handle hight	mm.	1215(ADJUSTABLE)
	h 2 = thiller hight		
	h 5 = seat hight	mm.	650
	h6=hight turning light	mm.	1620-2000
	h 7 = cabin turning light hight	mm.	
	h 1 = cabin hight	mm.	
	h 9 = cabin width	mm.	
Turning radius	R1= front min. external	mm.	1650
	R2=rear min. external	mm.	1045
Aisle width	U-turn	mm.	2300
Hook hight	s = hook center to ground	mm.	120-190-260
PERFORMANCE			
Speed	Without / with load	Km./h	10
Tractive effort	Continuative work 60'	N.	1800
	Max in plane x 5"	N.	3500
Gradeability	Without/width	%	see diagrams
Weight	With battery	Kg.	850
Axles load	Front/rear with battery	Kg.	400-450
TRACTION			
Wheels	Front diam./ width	mm.	320x110
	Rear diam./ width	mm.	400x125
Wheelbase	y = pitch	mm.	1300
Trach	C posterior wheels center	mm.	760
Graund clearence	clearence at half chassis	mm.	120
Working brake	Mecc./hydraul./elettr.		Hydraulic
	Brake axles number	N.	1
Parking brake	Mecc./hydraul./elettr.		Elettr.
Suspensions	Spring/laf spring/schock absorber		
POWER SUPPLY			
Battery	Type		Renforced
	Capacity	V./Ah.	24-360(c5)
	Weight	Kg.	220
Elettric motor	Translation,power S2=60°	Kw.	3,5
Electric system	electronic control		Inverter AC
Steering	Mecc./hydraul./elettr.		Mechanics
Transmission	Mecc.		Mechanics
Towing hook	manual - automatic		Manual
Autonomy	working hours witm medium work	h.	6-8



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BULL D

TOW CAPACITY Kg 5000

ELECTRIC TRACTOR

Tractor based on an innovative concept. The operator drives the vehicle either standing on board or comfortably seated. The steering system features a steering wheel, while the other controls are positioned on a handlebar at the side of the steering wheel itself.
The two driver-modes enable the operator to perform picking without having to keep sitting and standing up. He just has to get off the vehicle, which has a very low platform. When he has completed the load, he can then drive off to his destination seated.
The priority goals of this project were user-friendliness and ergonomics in a vehicle with two driver-modes.
The tractor can also be fitted with tyred wheels to make it even more comfortable.
The rear battery ensures the machine remains stable in any driving condition or floor surface
The self-supporting bodywork, with extruded steel mudguards and pressed steel front, protect the machine against accidental collisions.
The high capacity battery can be removed both vertically and sideways, since it rests on purpose-made bearings.
The dashboard features an interactive display that provides information about the battery charge, hours worked, instantaneous speed, service conditions and technical faults.
It also allows the operator to select the maximum speed for indoor and outdoor use.
The machine is operated by an AC system so, besides driving it, the motor also functions as a regenerative brake when the operator releases the accelerator.

BULL D

CHASSIS: in very thick metal sheet forming a self-supporting box structure.

STEERING SYSTEM: Mechanical with chain gear; smooth in every situation;

TRANSMISSION: a differential axle with asynchronous motor directly flanged onto the transmissiondrives the vehicle. The asynchronous motor has an electric brake that acts as a parking brake.
The motor has an Encoder that interfaces with the electronic control unit and enables the system to adjust the speed of the motor so that the tractor speed corresponds to the driver's requirementsin all conditions of use.

ELECTRICAL SYSTEM: an AC chopper monitors the performance of the motor.
The entire chopper/motor/brake system can be programmed via the console so as to ensure optimum performance for the specific work required.

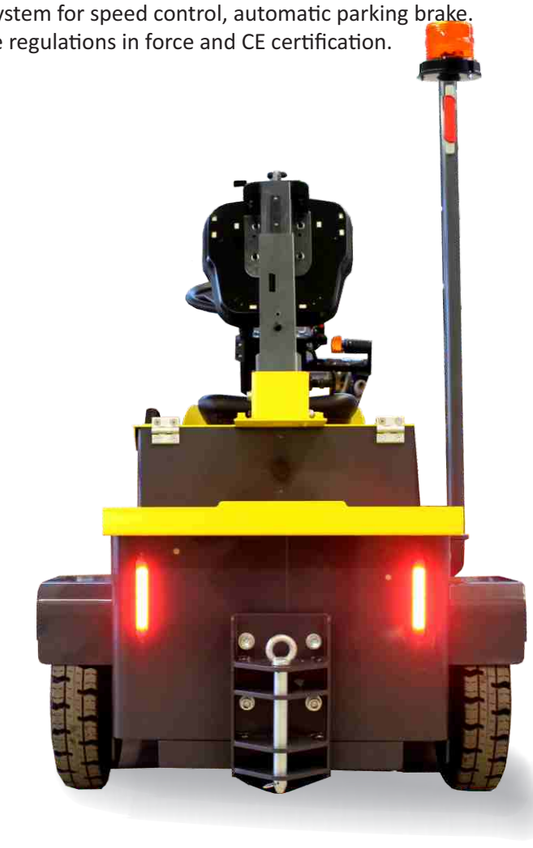
BRAKING SYSTEM: both release braking and reverse current braking can be obtained by releasing the throttle. The brake lever on the handlebar engages the rear hydraulic drum brakes.

INSTRUMENTATION: complete automotive-type instrumentation including low battery warning indicator, hours worked and fault indicators, fast / slow indicator, horn, light switch.

LIGHTING SYSTEM: headlight, rear side lights, brake lights.
Blue Spot, work light and hazard light available on request.

POWER SUPPLIER: a 24 V 360 A battery ensures considerable autonomy and thanks to its large capacity, will not normally be subjected to stress.
This makes it extremely long-lasting.

SAFETY DEVICES: platform occupancy micro, battery quick release device, battery safety retainer, AC system for speed control, automatic parking brake.
Compliance with the regulations in force and CE certification.



SITTING OPERATOR

STANDING OPERATOR