

ELECTRIC TRACTORS

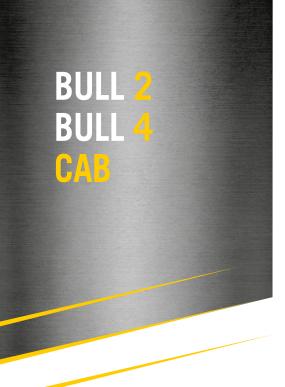
This tractor series, which we have been manufacturing for over ten years, is continuously upgraded and improved. Thousands of these machines have been produced and are still on the market.

Its success stems from its ability to deal with the many different requirements of the industrial handling sector.

These tractors can work both indoors and outdoors thanks to the different versions available: with tyres or superelastic wheels, with or without cab. So many optionals have been added to these machines over the years that now, almost everything has already been designed and is available.

Both BULL 2, with its 2-ton towing capacity and BULL 4, with its 4-ton towing capacity, are three-wheel tractors able to cover medium distances and feature an electronic system that monitors both acceleration and regenerative braking. Besides being extremely convenient, this type of braking system safeguards the brakes, which last longer and provide a better performance.





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 motor.

DRIVER'S POSITION: designed to provide an optimum level of comfort, includes a generously sized seat and storage compartment. The dashboard features an instrument that signals the battery charge status and hours worked.

Large steering wheel. Accelerator pedal and brake pedal.

Steering system: mechanical reduction. Precise yet light.

Controls the front wheel at an angle allowing the machine to reverse within a very small space.

WHEELS: three, with good size tyres. Superelastic rubber tyres on request, guaranteeing long life and wheel grip without foregoing driver comfort.

No-marking wheels are available on request.

ELECTRIC SYSTEM: comprising an electronic control unit and closed remote control switches. Provides excellent control over movements. Designed to prevent operating faults, it functions during both acceleration and braking, which is regenerative. Automatic electric parking brake.

SAFETY DEVICES: the machine conforms to the accident prevention regulations in force as to components, performance and stability.

CHARACTERISTICS dim.un. Manifacturer Model Buil Model Nominal capacity Kg. — Pull capacity Load nominal capacity Kg. 20 Power type Electric/Endothermic Elect Control type Pedestrian/stand-on/Seated Seath Tyres Pn - pneum. / se - superel. Seath Wheels Number front/rear X=drive Nr. 3 - 1/2 Wheels Number front/rear X=drive Nr. 3 - 1/2 Platform dimensions L x B (lenght x width) mm.	4000 c Electric d Seated
Platform loading capacity	4000 c Electric d Seated
Pull capacity	c Electric d Seated
Pull capacity	c Electric d Seated
Pedestrian/stand-on/Seated Seate	d Seated
Control type Pedestrian/stand-on/Seated Seath Tyres Pn - pneum. / se - superel. Se-Se-Wheels Wheels Number front/rear X=drive Nr. 3 - 1/2 Platform dimensions L x B (lenght x width) mm. DIMENSIONS h= machine body hight mm. L= lenght mm. 15/6 B=width mm. 99 h 3 = feet panel hight mm. 9 h 4 = steering/handle hight mm. 9 h 5 = seat hight mm. 16/6 h 6 = turning light hight mm. 16/6 h 7 = cabin turning light hight mm. 18/6 h 9 = cabin width mm. 18/6 Turning radius R1= front min. external mm. 10/6 R2=rear min. external mm. 10/6 R3=rear min.internal mm. 10/6 R3=rear min.internal mm. 12/6 Hook light y = hoke center to ground mm. 220-350-4 PERFORMANCE Seed Without / with load Km	
Tyres Pn - pneum. / se - superel. Se-t Wheels Number front/rear X=drive Nr. 3 - 1/. Platform dimensions L x B (lenght x width) mm	
Platform dimensions	se-Se
DIMENSIONS h= machine body hight mm.	x 3 - 1/2x
h= machine body hight	
L= lenght mm. 15/8	
B=width	
h 3 = feet panel hight	1600
h 4 = steering/handle hight	930
h 2 = thiller hight	340
h 5 = seat hight	990
h 6 = turning light hight	
h 7 = cabin turning light hight mm. 19 h 1 = cabin hight mm. 18 h 9 = cabin width mm. 18 R1 = front min. external mm. 14 R2 = rar min. external mm. 10 R3 = rear min.internal mm. 1; Aisle width U-turn mm. 2; Hook hight s = hook center to ground mm. 220-350-4 PERFORMANCE Speed Without / with load Km./h 12 Tractive effort Continuative work 60' N. 12 Max in plane x 5" N. 18 Gradeability Without/width % 10 Weight With battery Kg. 5 Axies load Front/rear with battery Kg. 160-3 TRACTION Wheels Front diam. / width mm. 312-1 Rear diam. / width mm. 10 Trach C posterior wheels center mm. 7 Graund clearence h = clearence at half chassis mm. 2 Working brake Mecc./hydraut./elettr. Hydrau Brake axles number N.	520
h 1 = cabin hight	1620
h 9 = cabin width	2010
Turning radius R1= front min. external R2=rear min. external mm. mm. 14 mm. R3=rear min. external mm. mm. 10 mm. R3=rear min. internal mm. 12 mm. 12 mm. Aisle width U-turn mm. 22 mm. 22 mm. Hook hight s = hook center to ground mm. 220 mm. 220 mm. 220 mm. PERFORMANCE Speed Without / with load Mr./h mm. Km./h 12 mm. 13 mm. 12 mm. 13 mm. 12 mm. 13 mm. 14 m	1880
R2=rear min, external mm. 10 R3=rear min, internal mm. 12 R3=rear min, internal mm. 220-350-4 R3=rear min, internal mm. 220-350-4 R3=rear min, internal R3=rear min, internal	890
R3=rear min.internal mm. 12	1500
Aisle width U-turn mm. 22 Hook hight s = hook center to ground mm. 220-350-4 PERFORMANCE Speed Without / with load Km./h 12 Tractive effort Continuative work 60' N. 12 Max in plane x 5" N. 18 Gradeability Without/width % 10 Weight With battery Kg. 5 Axies load Front/rear with battery Kg. 160-3 TRACTION Wheels Front diam / width mm. 312-1 Rear diam / width mm. 414-1 Wheelbase y = pitch mm. 10 Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2 Working brake Mecc./hydraut./elettr. Hydraut.	1000
Hook hight	120
PERFORMANCE Speed Without / with load Km./h 12 Tractive effort Continuative work 80° N. 12 Max in plane x 5° N. 18 Gradeability Without/width % 10 Weight With battery Kg. 5 Axies load Front/rear with battery Kg. 160-3 TRACTION Wheels Front diam./ width mm. 312-1 Rear diam./ width mm. 414-1 Wheelbase y = pitch mm. 10 Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2 Working brake Mecc./hydraut./elettr. Hydraut./elettr. Hydraut./elettr.	2300
Speed Without / with load Km./h 12 Tractive effort Continuative work 60' N. 12/6 Max in plane x 5" N. 18 Gradeability Without/width % 10 Weight With battery Kg. 5 Axies load Front/rear with battery Kg. 160-3 TRACTION Wheels Front diam./ width mm. 312-1 Rear diam./ width mm. 414-1: Wheelbase y = pitch mm. 10 Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2 Working brake Mecc./hydraul./elettr. Hydrau Brake axles number N.	0 240-380-520
Tractive effort Continuative work 60' N. 12' Max in plane x 5" N. 18' Gradeability Without/width % 10 Weight With battery Kg. 5' Axies load Front/rear with battery Kg. 160-3' TRACTION Wheels Front diam/ width mm. 312-1 Rear diam/ width mm. 414-1' Wheelbase y = pitch mm. 10' Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2 Working brake Mecc./hydraul./elettr. Hydrau Brake axles number N.	
Max in plane x 5° N. 18 Gradeability Without/width % 10 Weight With battery Kg. 50 Axles load Front/rear with battery Kg. 160-3 TRACTION Wheels Front diam./ width mm. 312-1 Rear diam./ width mm. 414-1 Wheelbase y = pitch mm. 10 Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2c Working brake Mecc./hydraut./elettr. Hydraut. Brake axles number N.	12-4
Gradeability Without/width % 10 Weight With battery Kg. 55 Axies load Front/rear with battery Kg. 160-3 TRACTION Wheels Front diam./ width mm. 312-1 Rear diam./ width mm. 414-1 Wheelbase y = pitch mm. 10 Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2 Working brake Mecc./hydraut./elettr. Hydrau Brake axles number N.	1800
Weight With battery Kg. 5.5 Axies load Front/rear with battery Kg. 160-3 TRACTION Wheels Front diam./ width mm. 312-1 Rear diam./ width mm. 414-1 Wheelbase y = pitch mm. 10 Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2 Working brake Mecc./hydraut./elettr. Hydrau Brake axles number N.	2700
Axies load Front/rear with battery Kg. 160-3' TRACTION Wheels Front diam./ width mm. 312-1 Rear diam./ width mm. 414-1: Wheelbase y = pitch mm. 10' Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2 Working brake Mecc./hydraut./elettr. Hydrau Brake axles number N.	5 12-4
TRACTION Wheels Front diam./ width mm. 312-1 mm. 312-1 mm. 414-1: mm. 414-1: mm. 414-1: mm. 10 mm. 10 mm. 10 mm. 7 mm. 7 mm. 7 mm. 7 mm. 7 mm. 7 mm. 2 mm. 4 mm.	740
Wheels Front diam./ width Rear diam./ width Meel diam. mm. 312-1 mm. 414-12 mm. 414-12 mm. 414-12 mm. 100 mm. 100 mm. 100 mm. 7 Graund clearence h= clearence at half chassis mm. 20 mm.	175-495
Rear diam./ width mm. 414-1: Wheelbase y = pitch mm. 10 Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2: Working brake Mecc./hydraul./elettr. Hydrau Brake axles number N.	
Wheelbase y = pitch mm. 10 Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2 Working brake Mecc./hydraul./elettr. Hydrau Brake axles number N.	360-150
Trach C posterior wheels center mm. 7 Graund clearence h= clearence at half chassis mm. 2 Working brake Mecc./hydraul./elettr. Hydrau Brake axles number N.	1 414-150
Graund clearence h= clearence at half chassis mm. 2. Working brake Mecc./hydraut./elettr. Hydrau Brake axles number N.	1170
Working brake Mecc./hydraut./elettr. Hydrau Brake axles number N.	710
Brake axles number N.	250
	c Hydraulic
Parking brake Mecc./hydraul./elettr. Elet	1 1
	. Elettr.
Suspensions Spring/laf spring/schock absorber	
POWER SUPPLY	
Battery Type Renforce	d Renforced
Capacity V./Ah. 24-250(5	(a) 24-300(C5)
Weight Kg. 2	220
Elettric motor Translation, power \$2=60° Kw. 2,0 A	3,5 AC
Electric system electronic control Inverter AC Inverter A	Inverter AC
Steering Mecc./hydraul./elettr. Mechani	s Mechanics
Transmission Mecc. Mechani	s Mechanics
Towing hook manual - automatic Manu	l Manual
Autonomy working hours witm medium work h. 6	6-8

