



The operator has a choice of different driving-modes, selected by pressing the buttons on the steering column. Three options are available, from the high performance to the economy mode.



The ergonomic cab features the highest standards in operator comfort, safety and ease of access. The proportional electronic controls integrated in the new (optional) armrest enable the operator to manage all the hydraulic functions by simply moving the Mini-Joystick or Fingertips levers.



Excellent visibility and stability. The masts, with widely-spaced profiles designed for exceptional visibility, guarantee rigidity and stability even at the maximum height.



Excellent access to the driving seat, assisted by the large, conveniently located step with non-slip knurled aluminium tread.

At Your Local Dealer

Options

- Electronic Fingertips / Mini-Joystick controls fitted on the armrest.
- Foldable armrests.
- Lateral battery extraction.
- Cab.
- Working lights.

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cenTAURO 48 160L 200L

Compact electric counterbalanced trucks

Easy to handle,
great flexibility in use

AC Technology

The new CESAB cenTAURO 48 160L 200L AC Technology range is an extremely compact four wheel truck combining excellent manoeuvrability with all the advantages of AC motor control technology. Two independent high power AC traction motors form an electronic differential, which combined with a new concept steering axle and compact chassis allows the cenTAURO range to work in the tightest of spaces. The range comprises models with lifting capacities from 1600 kg to 2000 kg and lift heights up to 6100 mm.

Lifting and hydraulic functions are powerful and progressive thanks to a high power AC hydraulic pump motor enabling frequent lifting to high levels.

AC technology utilises components that are designed to cope with rapid direction changes ensuring smooth acceleration and braking and outstanding efficiency. AC technology also provides exceptional driver control on ramps and gradients with electronic braking eliminating roll back without the need for engaging the brakes. The CAN-BUS system simplifies the electrical system by significantly reducing the wiring and increases the flexibility of the truck control system. Low power consumption and the capability for using high capacity batteries gives the range exceptional autonomy of operation.

The new concept steering axle makes acute steering angles possible and is mounted on silent blocks for improved operator comfort and quieter operation.

Operator comfort is maximised with the standard fitment of a fully adjustable, full suspension seat together with an adjustable steering column. The park brake lever is within easy reach and the raised driving position provides the operator with excellent visibility of the load and the area around the truck for safe manoeuvring.

The automobile-style dashboard has main function indicator lights plus warning signals for operating faults and major component wear.

The use of oil wet brakes not only ensures effective braking, but also allows a significant reduction in maintenance costs.



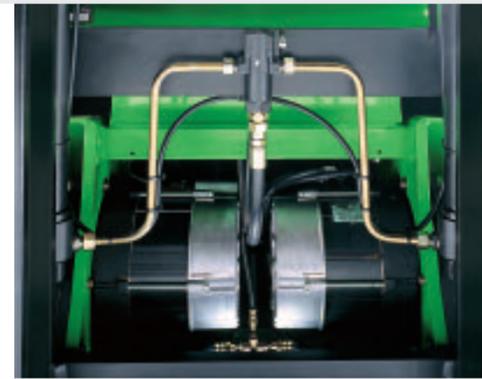
centTAURO 48 160L 200L

VDI 2198

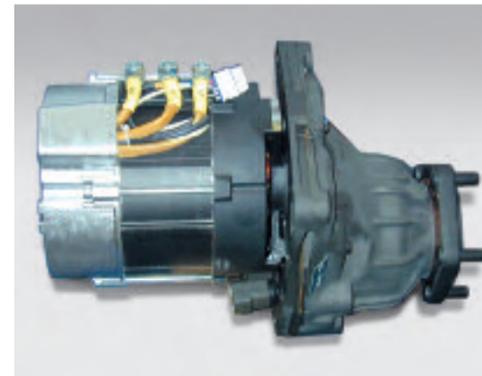
Characteristics		CESAB	CESAB
1.1	Manufacturer	CESAB	CESAB
1.2	Model designation	centTAURO 48 160L	centTAURO 48 200L
1.3	Power unit: electric (battery), diesel, petrol, LPG	electric	electric
1.4	Operation: manual, pedestrian, stand-on, driver seated	driver seated	driver seated
1.5	Load capacity	1600	2000
1.6	Load centre	500	500
1.8	Axle centre to fork face	370 (a)	370 (a)
1.9	Wheel-base	1220	1220
Weights			
2.1	Weight	3415	3620
2.2	Axle load with load, front/rear	4365 / 650	4920 / 700
2.3	Axle load without load, front/rear	1470 / 1945	1405 / 2215
Wheels and chassis			
3.1	Tyres: C=Cushion, SE=Superelastic, PN=Pneumatic, TW=Twin	C - SE - PN	C - SE
3.2	Tyre size, front	432x152 - 18x7-8 - 18x7-8	457x178 - 200/50-10
3.3	Tyre size, rear	381x127 - 16x6-8 - 16x6-8	381x127 - 16x6-8
3.5	Wheels, number front/rear (x = driven)	2x / 2	2x / 2
3.6	Track width, front	823 - 835 - 835	812 - 845
3.7	Track width, rear	863 - 843 - 843	863 - 843
Dimensions			
4.1	Mast tilt, forward/backward	α / β (degrees)	$2^\circ 30' / 6^\circ$
4.2	Height of mast, lowered	h1 (mm)	2160
4.3	Free lift	h2 (mm)	80
4.4	Lift height	h3 (mm)	3170
4.5	Height of mast, extended	h4 (mm)	3720
4.7	Height of overhead guard	h6 (mm)	2191
4.8	Height of driver's seat	h7 (mm)	1167
4.12	Towing coupling height	h10 (mm)	382
4.19	Overall length	l1 (mm)	2910
4.20	Length to fork face	l2 (mm)	1910 (a)
4.21	Overall width	b1/b2 (mm)	1020 - 1020 - 1020 / NO
4.22	Fork dimensions	s/e/l (mm)	35 x 100 x 1000
4.23	Fork carriage to DIN 15173, class/form A, B		II A
4.24	Width of fork carriage	b3 (mm)	900
4.31	Floor clearance, mast (with load)	m1 (mm)	100
4.32	Floor clearance, centre of wheel-base (with load)	m2 (mm)	83
4.33	Aisle width with pallets 1000 x 1200 across forks	Ast (mm)	3259 (a)
4.34	Aisle width with pallets 800 x 1200 along forks	Ast (mm)	3408 (a)
4.35	Turning radius	Wa (mm)	1619
4.36	Minimum distance between the centres of rotation	b13 (mm)	-
Performance			
5.1	Travel speed, with/without load	km/h	14 / 15
5.2	Lifting speed, with/without load	m/s	0.34 / 0.54
5.3	Lowering speed, with/without load	m/s	0.51 / 0.45
5.5	Tractive force, with/without load	N	2820 / 3140
5.6	Maximum tractive force, with/without load, S2 5 minute rating	N	8680 / 9000
5.7	Climbing ability, with/without load, S2 30 minute rating	%	6.4 / 10.7
5.8	Maximum climbing ability, with/without load, S2 5 minute rating	%	17.5 / 28
5.9	Acceleration time, with/without load	s	-
5.10	Service brake: mechanical/hydraulic/electric/pneumatic		hydraulic
Electric motor			
6.1	Drive motor, S2 60 minute rating	kW	4.5 x 2
6.2	Lift motor, S3 15% rating	kW	10
6.3	Battery according to DIN 43531/35/36 A, B, C, NO		-
6.4	Battery voltage/rated capacity (5 h)	V/Ah	48 / 640 - 840
6.5	Battery weight	kg	1275
6.6	Energy consumption in acc. with VDI-cycle	kWh/h	-
Others			
8.1	Type of drive control		AC MOSFET
8.2	Working pressure for attachments	bar	140
8.3	Oil flow for attachments	l/min	-
8.4	Noise level at driver's ear	dB (A)	-
8.5	Towing coupling, design/type DIN		-

(a) With side shift = +34 mm

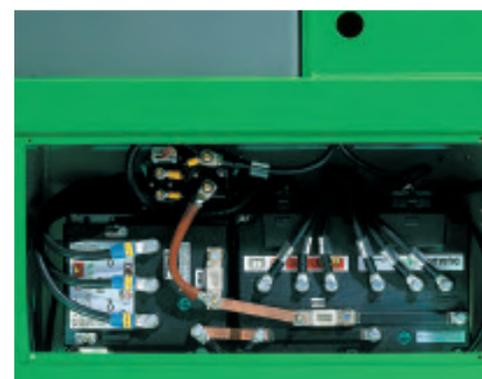
NOTES: Unless otherwise specified, all data refer to vehicles with SE tyres. All performance figures refer to fully run-in vehicles, in perfect working status with homologated tyres mix, battery fully charged and excellent conditions with closed circuit voltage equal to nominal value. Truck performance and dimensions are nominal and subject to tolerances.



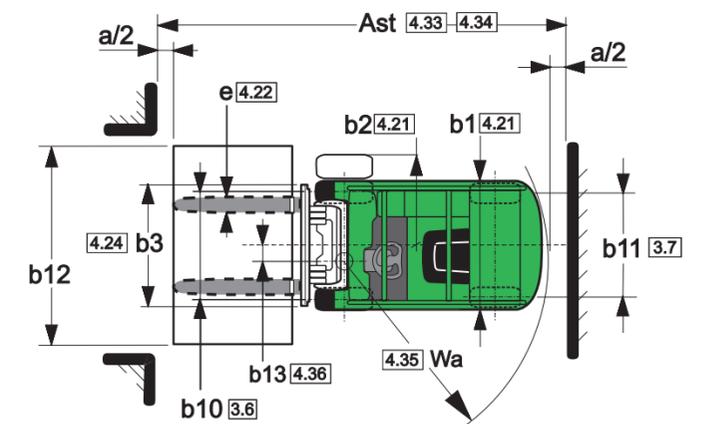
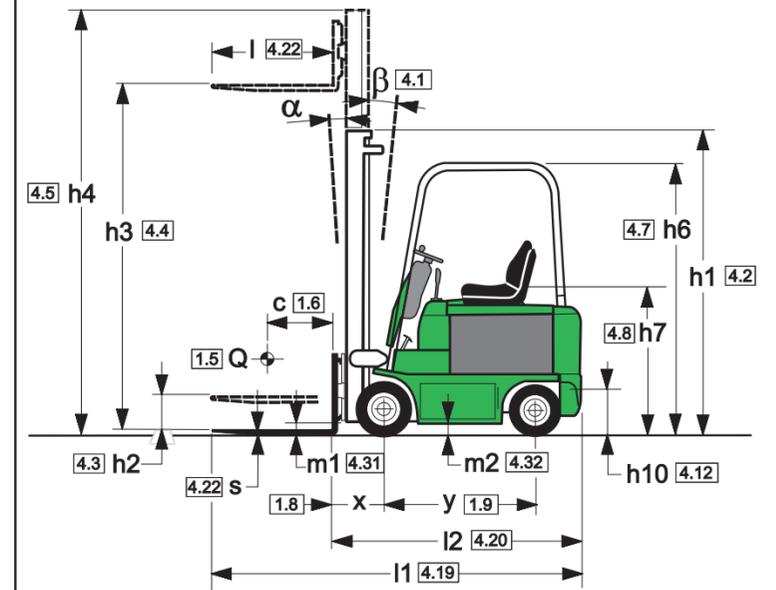
The new CESAB centTAURO utilises two independent high power front wheel traction AC motors to form an electronic differential which allows it to work in the tightest spaces.



The AC drive technology also comes into effect during braking, increasing the lifetime of components and considerably reducing braking system servicing costs.



The electronic control unit, which is installed in the protected internal compartment, enables immediate access for programming and diagnostics. The truck performance characteristics can be adjusted to suit the working application and individual drivers needs.



Masts specifications (1600 - 2000 Kg)

Mast, mm	Duplex			Duplex FFL		
	3170	3670	4170	3170	3670	4170
h3	Lift height					
h1	2160	2410	2660	2160	2410	2660
h2	80	80	80	1580	1830	2080
h4	3720	4220	4720	3750	4250	4750
α / β	Mast tilt forward/backward			$2^\circ 30' / 6^\circ$		

Masts specifications (1600 - 2000 Kg)

Mast, mm	Triplex				Triplex FFL			
	4320	4965	5565	6075	4320	4970	5570	6070
h3	Lift height							
h1	2010	2260	2460	2660	2010	2260	2460	2660
h2	0	0	0	0	1340	1680	1880	2080
h4	4900	5570	6170	6710	4900	5550	6150	6650
α / β	Mast tilt forward/backward				$2^\circ 30' / 6^\circ$			