

the tiller for emergency stops. Also positioned on the head control unit are the lockout switch, the warning horn button and a safety device which reverses the direction of drive in the event of contact with the

Steering

An electronic power steering is fitted as standard equipment on the models CTS12 and CTS15 to ensure smooth steering.

#### Chassis

The single-body structure has been designed to ensure compactness, rigidity, sturdiness and stability to the machine. The low weight of the machine allows most of the energy to be used for loading.

Electronic system - Battery

The standard MOSFET electronic speed control ensures smooth and gradual start up, enhancing the truck's already considerable efficiency and therefore its operating range. A polarized plug prevents wrong connections and insulates the electronic system from the battery during the charging cycle. A full and gradual recharging is guaranteed by the ICEM electronic charger, generally supplied with the truck and equipped with an end-ofcharge automatism, an emergency timer and a voltage balancing unit.

#### Traction unit

The reduction gearbox contains the treated, ground and oil-bath lubricated gears. The travel MOTOR supports high level loads, has outstanding efficiency and is backed by a 2 YEAR GUARANTEE. The polyurethane driving wheel is self-centred on the end shaft and can be replaced in just a few minutes. The "dead-man" electromagnetic disk brake can be adjusted to adapt the braking to the weight and type of load. Reverse current electronic braking is possible.

Lifting - Lowering

Lifting is operated by an electrohydraulic control unit with gear pump and a distributor with in-built check and relief valve. The fork lift and lower speeds can be adjusted by altering the position of the distributor lever as required, in order to improve load stability. During the load lowering operation a regulator valve prevents the preset speed from being exceeded, even in the event of hose breaking.

Mast assembly

The carefully engineered mast structure, made of extruded steel, ensures excellent load stability. The mast and carriage assembly, protected by an anti-shear shield, run on roller bearings. Simplex, duplex or triplex mast assemblies are available, with or without full free lifting.

Safety devices

The truck is fitted with all the safety devices as required by standards in force and is marked CE.

Driving

The tiller and the head control unit with hand protection are ergonomically designed to allow ease of operation with maximum safety. Forward/reverse acceleration is obtained by means of the throttle controls located on the sides of the head control unit; by releasing these controls, the truck is stopped by the action of the electromagnetic brake, whatever the position of the tiller. The truck is also equipped with a microswitch on

# Electronic fork lift truck with projecting forks



lifting levers



width-adjustable FEM FORKS

### CTS-VT with free view

mast and external cylinders



CTS with clamp The trucks of the CTS line ensure low-cost handling of any type of pallets, including those with a ground crossbar on the forking side and in all the other cases when projecting forks are necessary.

## Some options

On request the trucks can be supplied in the following versions: IP54, zinc plated, for cold stores up to -25°C, with special attachments to handle coils, drums, electrical household appliances, with sideshifter.

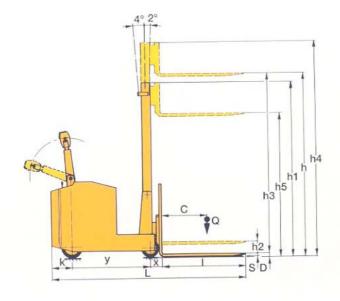


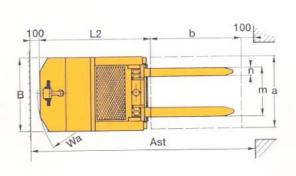


## Series CTS electronic fork lift truck with projecting forks

1.1		MANUFACTURER		<u> </u>				
1.2		Model		CTS 6/316	CTS 8/316	CTS 12/316	CTS 15/316	CTS 20/316
1.3	Q	Load capacity	kg	600	800	1200	1500	2000
1.4		Load centre	mm	500	500	500	500	500
2.1		Lift height	mm	3160	3160	3160	3160	3160
2.2		Lifting	mm	3120	3120	3120	3120	3120
2.3	111,053	Standard free lift	mm	80	80	60	60	60
2.4		Full free lift (duplex) on request	mm	1620	1620	1635	1635	1635
2.5		Collapsed mast height	mm	2100	2100	2100	2100	2100
2.6		Extended mast height	mm	3620	3620	3650	3650	3650
2.7		Headlength	mm	1315	1535	1545	1685	1925
2.8	В	Overall width	mm	880	880	930	930	930
2.9		Height (s) x Width (n) x Length (l)	mm	35x100x1000	35x100x1000	35x100x1000	35x130x1000	35x130x1000
2.10	m	Width across forks	mm	200 - 670	200 - 670	200 - 670	260 - 670	260 - 670
2.11	D	Lowered forks height	mm	40	40	40	40	40
	Auto la	Turning radius	mm	1195	1415	1440	1570	1820
2.13	X	Load wheels / forks back distance	mm	150	150	140	140	140
2.14	K	Rear overhang	mm	225	225	315	315	315
2.15	V	Wheel base	mm	940	1160	1090	1230	1470
2.16	Ĺ	Track forks / drive	mm	760 / 0	760 / 0	800 / 0	800 / 0	800 / 0
2.17	L	Overall length	mm	2315	2535	2545	2685	2925
2.18	Ast	Aisle width with pallet 800x1200 (a x b) I = 1150	mm	2715	2935	2945	3085	3325
2.19	Ast	Aisle width with pallet 800x1000 (a x b) I = 1000	mm	2515	2735	2745	2885	3125
2.20		90; aisle with pallet 800x1200 (a x b)	mm	1575	1775	1750	1800	2080
2.21		90; aisle with pallet 1000x1200 (a x b)	mm	1675	1875	1850	1900	2180
2.22		Body clearance	mm	70	70	70	70	70
3.1		Travel speed with / without load	km/h	4,5 / 5,5	4,5 / 5,5	4,3 / 5,4	4,2 / 5,3	4,0 / 5,0
3.2		Lift speed with / without load	m/s	0,15 / 0,22	0,15 / 0,22	0,13 / 0,21	0,11 / 0,21	0,09 / 0,14
3.3		Lowering speed with / without load	m/s	0,33 / 0,32	0,33 / 0,32	0,33 / 0,26	0,36 / 0,26	0,18 / 0,13
3.4		Max. gradeability with / without load	%	10 / 15	10 / 15	6 / 10	5/9	5/9
4.1		Truck weight with / without battery	kg	1380 / 1170	1400 / 1190	1850 / 1565	1945 / 1630	2300 / 1900
4.2		Axle load with load forks / drive	kg	1640 / 340	1850 / 350	2500 / 550	2890 / 555	3750 / 550
5.1		Wheels quantity forks / drive		2/1	2/1	2/1	2/1	2/1
5.2		Forks wheel size (polyurethane) Ø	mm	200	200	250	250	250
5.3		Rear wheel size (polyurethane) Ø	mm		250	320	320	320
5.4		Service brake / Parking brake		E.m.	E.m.	E.m.	E.m.	Electr E.m.
6.1		Battery (5 hours rating)	V/Ah	Jac. 7 . 1	24 / 240	24 / 315	24 / 375	24 / 420
6.2		Battery weight	kg	210	210	285	315	400
6.3		Traction motor	kW		1	1	1	2
6.4		Lift motor	kW	2,5	2,5	3	3	3

Other forks lift height on request: 1600 mm with h1 = 2100 (simplex) 2760 mm with h1 = 1900 (duplex) 3560 mm with h1 = 2300 (duplex) 4160 mm with h1 = 2600 (duplex) 4660 mm with h1 = 2100 (triplex - L2+56)





All above performance data refer to a perfectly efficient truck with battery in full working conditions. We reserve the right to make modifications and technical improvements.

