**CL** Technical data





# **CL - Technical Data**

			VDI 2198					
1.	.2	Model		CL 10,5 SX	CL 12 SX	CL 10,5 DX PAL	CL12 DX PAL	
1. 1. 1. 1.	.3	Drive unit		Elec	tric	Electric		
1.	.4	Drive control type		Tiller		Tiller		
1.	.5	Loading capacity	Q (t)	1,05	1,2	1,05	1,2	
1.	.6	Load center	c (mm)	600		600		
1.	.8	Distance between fork face to load wheel axle	x (mm)	776		756		
1.	.9	Distance between wheels centres	y (mm)	1298		12	98	
2.	.1	Truck weight (without battey)	Kg	62	623		743 (3)	
2.	.2	Axle loadings laden (front/rear)	Kg	718 / 1106(1)	770 / 1244 (2)	782 / 1163 <sup>(4)</sup>	832 / 1302 (5)	
2.	.3	Axle loading unladen	Kg	577 / 198	608 / 205 (2)	656 / 239 (4)	688 / 246 <sup>(5)</sup>	
3.	.1	Tyre type		Polyure	Polyurethane		Polyurethane	
3.	.2	Front tyre dimensions	(mm)	230 / 120		230 / 120		
3.		Rear tyre dimensions	(mm)	85X90		85X90		
3.	.5	Wheels quantity front/rear (x= traction)		1x-1 / 2		1x-1 / 2		
3.		Distance between traction and pivoting wheel's axles	b10 (mm)	505		505		
3.	1.7	Distance between load wheels centres	b11 (mm)	39		397		
4.	.2	Closed height	h1 (mm)	2300		2000 / 2350		
4.	.3	Full free lift	h2 (mm)	1785		120		
4.		Lift height	h3 (mm)	1800		2900 / 3600		
4.		Extended height	h4 (mm)	2310 (9)		3410 / 4110 (9)		
4.		Partial free lift	h5 (mm)	/		/		
4.		Travel position tiller height (min/max)	h14 (mm)	762 / 1232		762/1232		
-	.15	Forks clearance from the ground	h13 (mm)	85		85		
-	.19	Total length	I1 (mm)	1850		1869		
-		Length to fork face	l2 (mm)	700		719		
-	.21	Total width	b1 (mm)	790		790		
-	.22	Fork dimensions	s/e/I (mm)	56 / 175 / 1150		56 / 175 / 1150		
-		Mast width	b3 (mm)	660		660		
-	.25	Maximum forks width	b5 (mm)			570		
-		Clearance off ground	m2 (mm)	560		29		
-	_	Aisle width for 1000x1200 pallet 1200 forking side	Ast3 (mm)	29 2430 <sup>(10)</sup>		2438(10)		
-	.34	Aisle width for 800x1200 pallet 800 forking side	Ast3 (mm)			2388(10)		
-		Turning radius	Wa (mm)	2373 <sup>(10)</sup>		1590 (10)		
_	_	Traction speed (laden /unladen )						
5.		· · · · · · · · · · · · · · · · · · ·	km/h	5,6,		5,6/6	5,5/6	
_	2.2	Lifting speed (laden/unladen)	m/s	0,13 / 0,18	0,12 / 0,18	0,13 / 0,21(3)	0,17 / 0,3(2)	
5.		Lowering speed (laden/unladen)	m/s	0,28 / 0,22	0,29 / 0,22	0,31 / 0,31(3)	0,32 / 0,31(2)	
5.		Gradeability KB30' (laden/unladen)	%	1,7 / 8,0	1,2 / 7,5	1,3 / 6,5	1,0 / 6,1	
_	.8	Maximum gradeability KB5' (laden/unladen)	%	6,7 / 9,0(11)	5,8 / 9,0(11)	6,1 / 9,0(11)	5,3 / 9,0(11)	
_		Service brake	134/	Electric at but		Electric at but		
6.		Traction motor, performance KB 60'	kW	1		1		
6.		Lift Motor, performance 15% ED	kW	2,2		2,		
_	i.3	Battery to British Standard / DIN 43531/35/36 A, B, C		British St		British S		
_	i.4	Volts/ampere	V / Ah	24/140 (200-300)	24/200 (300)	24/140 (200-300)	24/200 (300)	
_	i.5	Battery weight (+-5%)	Kg	152 (191-250)	191 (250)	152 (191-250)	191 (250)	
8.		Control unit type		Electr			Electronic	
8.	1.4	Noise level at operator position	dB (A)	<70		<70		

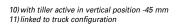
<sup>1)</sup> with 24V/140 Ah battery 2) with 24V/200 Ah battery 3) with h3 = 3600 mm mast

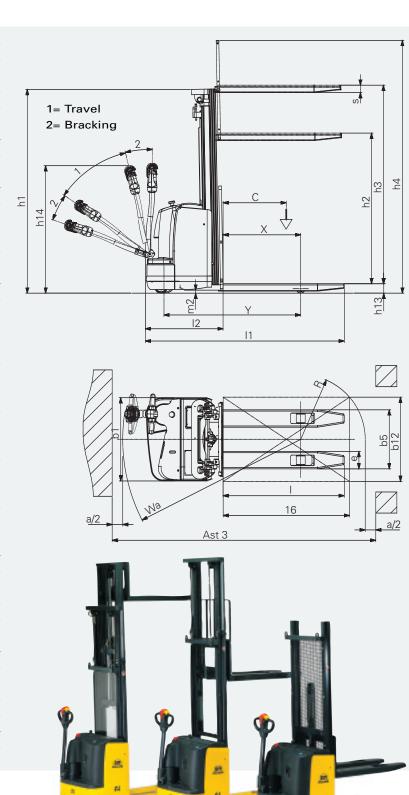
CL 10,5	Lifting height	Lifting height from floor	Lowered height	Extended height	Standard free lift	Residual capacity at maximum height with 140 Ah battery (minimum weight 154 Kg)
Mast type	h3 (mm)	h3+h13 (mm)	h1 (mm)	h4 (mm)	h2 (mm)	Q (kg)
Simplex	1800	1885	2300	2310	1785	1050
Duplex PAL	2900	2985	2000	3410	120	1050
Duplex GAL	2900	2985	1950	3410	1450	1050
Duplex PAL	3600	3695	2350	4110	120	950
Duplex GAL	3600	3685	2300	4110	1800	950
Triplex GAL	4100	4185	1866	4610	1367	850
Triplex GAL	4305	4390	1935	4815	1435	800

<sup>4)</sup> with 24V/140 Ah battery and h3 = 3600 mm mast 5) with 24V/200 Ah battery and h3 = 3600 mm mast 6) with h3=4305 mast

<sup>7)</sup> with 24V/140 Ah battery and h3 = 4305 mm mast 8) with 24V/200 Ah battery and h3 = 4305 mm mast 9) with load back rest +512 mm

CL 10,5 DX GAL	CL 12 DX GAL	CL 10,5 TX GAL	CL 12 TX GAL		
Elec	tric	Electric			
Tille	er	Tiller			
1,05	1,2	1,05	1,2		
60	0	60	0		
75	6	73	7		
129		129			
755	5 (3)	809	) (6)		
790 / 1167 (4)	840 / 1306 (5)	807 / 1204 <sup>(7)</sup> 854 / 1346			
664 / 243 (4)	696 / 250 (5)	697 / 264 <sup>(7)</sup>	728 / 272 (8)		
Polyure	thane	Polyurethane			
230 /	120	230 / 120			
85X	90	85X	90		
1x-1	/2	1x-1	/ 2		
50	5	50	5		
39	7	39	7		
1950 /	2300	1866 /	1935		
1450 /	1800	1367 /	1435		
2900 /	3600	4100 / 4305			
3410 / 4	4110 (9)	4610 / 4815 (9)			
/		1			
762/1	232	762/1232			
85	5	85			
186	69	1889			
71	9	738			
79	0	790			
56 / 175	/ 1150	56 / 175 / 1150			
66	0	660			
57	0	570			
29	)	29			
2438	3(10)	2445 (10)			
2388	3(10)	2402 (10)			
1590	) (10)	1590	) (10)		
5,6/6	5,5/6	5,6/6	5,5 / 6		
0,15 / 0,27 (3)	0,13 / 0,27 (3)	0,18 / 0,28 (6)	0,16 / 0,28 (6)		
0,30 / 0,24 (3)	0,31 / 0,24 (3)	0,30 / 0,24 (6)	0,31 / 0,24 (6)		
1,3 / 6,2	1,0 / 6,1	1,2 / 5,8	0,9 / 5,4		
6,1 / 9,0 (11)	5,3 / 9,0 (11)	5,8 / 8,9(11)	5,0 / 9,0 (11)		
Electric at but	terfly release	Electric at but	terfly release		
1		1			
3		3			
British S	tandard	British Standard			
24/140 (200-300)	24/200 (300)	24/140 (200-300)	24/200 (300)		
152 (191-250)	191 (250)	152 (191-250)	191 (250)		
Electr	onic	Electr	onic		
<7	0	<70			





CL 12	Lifting height	Lifting height from floor	Lowered height	Extended height	Standard free lift	Residual capacity at max height with 200 Ah battery (minimum weight 192 Kg)
Mast type	h3 (mm)	h3+h13 (mm)	h1 (mm)	h4 (mm)	h2 (mm)	Q (kg)
Simplex	1800	1885	2300	2310	1785	1200
Duplex PAL	2900	2985	2000	3410	120	1200
Duplex GAL	2900	2985	1950	3410	1450	1200
Duplex PAL	3600	3695	2350	4110	120	1050
Duplex GAL	3600	3685	2300	4110	1800	1050
Triplex GAL	4100	4185	1866	4610	1367	900
Triplex GAL	4305	4390	1935	4815	1435	850





The new stacker CL is introduced as an essential work tool for handling of pallets, cases and container cages in small to medium duty logistic applications. The diversity of applications within warehouses logistics expands the application range of the stacker: It can be found in small stores as well as specific applications for handling in production areas, stocking, goods in and out bays.

The totally new design keeps the existing, well tested, four point configuration and side mounted tiller. The motor compartment and battery covers are made of high impact resistant polyethylene, well integrated in the design with smooth contours.

#### Chassis

The four point design and sidemounted tiller previously mentioned ensure a high degree of stability and perfect visibility during loading and unloading operations. The traction group and pivoting wheel are completely enclosed within the chassis dimensions ensuring operator foot protection.

A standard chassis, made of steel welded onto the main structure is adopted throughout the range. Various mast configurations may be combined with the chassis. Nominal capacities of 1050 kg and 1200 kg are available.

#### Traction group

Electronic control of traction allows energy recuperation when releasing the butterfly. The1 kw traction motor is of the separate field - excitation type. The pivoting wheel is easily adjusted maintaining perfect contact with floor and maximum stability.

#### Lift group

Simplex, duplex and triplex high visibility masts with partial or full free lift are fitted on both capacity trucks.

Two dedicated lift motors are available, 2.2 kw & 3 kw, according to capacity and lift height.

#### Tiller

The new tiller head allows control of all the lift functions through ergonomically placed buttons to give maximum comfort levels to the operator. Mechanical operation microswitches have been replaced by push type buttons.

### Electronic control

The stacker is equipped with a unique electronic control for both traction and lift. The use of digital transmission of electrical signals has reduced considerably the volume of cables.

and proximity switches instead of mechanical micro switches and the reduction of contactors have consistently increased reliability.

## Optional equipment

- Cold store spec.
- Down to -30 degrees C°
- Tandem load wheels.
- Rubber traction wheel.
- Proportional electrovalve control for hydraulic functions.
- DC-DC converter
- Tempered glass mast shield
- Load backrest
- Incline option
- Braking cylinders ■ Battery trolley.

The adoption of automotive type connectors

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