

CNS Technical Data



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VDI 2198

Specification	1.1	Manufacturer		OM	OM
	1.2	Manufacturer type designation		CNS 14	CNS 20
	1.3	Drive unit: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Pedestrian	Pedestrian
	1.5	Load capacity	Q (Kg)	1400	2000
	1.6	Load center	c (mm)	600	600
	1.8	Load distance, centre of drive axle to fork face	x (mm)	621 ⁽¹⁾	606 ⁽⁶⁾
	1.9	Wheelbase	y (mm)	1291	1291
	Weights	2.1	Truck weight (without battery)	kg	1108
2.2		Axle loading, loaded (front/ rear)	kg	897 / 1871	866 / 2586
2.3		Axle loading, unloaded (front/ rear)	kg	901 / 467	946 / 506
Wheels and Tyres	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane	Polyurethane
	3.2	Tyre size (front)	mm	230 / 120	230 / 120
	3.3	Tyre size (rear)	mm	85 x 90	85 x 70
	3.5	Wheels number, front / rear (x= driven wheels)		1x-1 / 2	1x-1 / 4
	3.6	Tread, front	b10 (mm)	574	574
	3.7	Tread, rear	b11 (mm)	980 / 1180 / 1380	980 / 1180 / 1380
	Dimensions and Overall Sizes	4.2	Height, mast lowered	h1 (mm)	2327
4.3		Free lift	h2 (mm)	1701	1351
4.4		Lift height	h3 (mm)	5390	4380
4.5		Height, mast extended	h4 (mm)	6016 ⁽³⁾	5006 ⁽³⁾
4.6		Initial lift	h5 (mm)	/	/
4.9		Height of tiller in drive position min / max	h14 (mm)	762 / 1232	762 / 1232
4.15		Forks height, lowered	h13 (mm)	40	50
4.19		Overall length	l1 (mm)	1997 ⁽⁵⁾	2012 ⁽⁵⁾
4.20		Length to face of forks	l2 (mm)	847 ⁽⁵⁾	862 ⁽⁵⁾
4.21		Overall width	b1 (mm)	1107 / 1307 / 1507	1107 / 1307 / 1507
4.22		Fork dimensions	s/e/l (mm)	35 / 100 / 1150	45 / 120 / 1150
4.24		Fork carriage width	b3 (mm)	820 ⁽⁷⁾	820 ⁽⁷⁾
4.25		Maximum forks width	b5 (mm)	400 / 720	430 / 750
4.26			b4 (mm)	853 / 1053 / 1253	853 / 1053 / 1253
4.31		Ground clearance, laden, below mast	m1 (mm)	/	/
4.32		Ground clearance, centre of wheelbase	m2 (mm)	30	30
4.33		Aisle width for pallets 1000x1200 crossways (1200 forking side)	Ast3 (mm)	2508 ^{(2) (5)}	2515 ^{(2) (5)}
4.34		Aisle width pallets 800x1200 lengthways (800 forking side)	Ast3 (mm)	2496 ^{(2) (5)}	2508 ^{(2) (5)}
4.35		Turning radius	Wa (mm)	1588 ⁽²⁾	1588 ⁽²⁾
Performance		5.1	Travel speed: Loaded / unloaded	km/h	5,5 / 6
	5.2	Lift speed: Loaded / unloaded	m/s	0,12 / 0,24	0,10 / 0,17
	5.3	Lowering speed: Loaded / unloaded	m/s	0,40 / 0,32	0,40 / 0,36
	5.7	Gradeability KB 15°: Loaded / unloaded	%	1,2% / 6,3%	0,5% / 6,5%
	5.8	Max gradeability KB 5°: Loaded / unloaded	%	4,1% / 9,0% ⁽⁴⁾	2,8% / 9,0% ⁽⁴⁾
	5.10	Service brake		Electric	Electric
Engine	6.1	Drive motor rating S2 60min	kW	1	1
	6.2	Lift motor rating at S3 15%	kW	⁽¹⁾ 2,2 / 3	3
	6.3	Battery according to British Standard / DIN 43531/35/36 A, B, C		DIN	DIN
	6.4	Battery voltage / nominal capacity k5	V / Ah	24 / 240 (315 - 375)	24/315 (375)
	6.5	Battery weight (± 5%)	kg	260 (295 - 304)	295 (304)
Others	8.1	Control unit type		Electronic	Electronic
	8.4	Sound level at the driver's ear according to DIN 12 053	dB (A)	< 70	< 70

The values presented are to be taken as indicative and not binding: they refer to the standard equipment

(1) With simplex mast duplex up to h3= 3580 mm
 (2) With tiller active in vertical position - 45mm
 (3) Withload back rest: + 543 mm with 14 Q.II version + 573 mm with 20 Q.II version

(4) Max gradeability due to geometric dimensions
 (5) With simplex and duplex mast -21mm
 (6) With simplex and duplex mast +21mm
 (7) b3= 980mm for tread rear version 1380

CNS

Pedestrian stacker truck



The Product Line: Closely derived from the CN series of tiller forklifts but with front support straddles mounted outside the frame, the CNS forklift can handle loads such as pallets with ties on the ground on the pick-up side. Also, because the truck can be equipped with special tools such as claws or hooks, it can safely handle rolls, coils, and drums. The CNS forklift is available with a rated capacity of 1,400 kg and 2,000 kg.

The Structure: The straddles are available with 3 different inside gauges: 850 mm, 1,050 mm, 1,250 mm ■ The 4-point support with side-mounted tiller configuration provides a high degree of stability as well as perfect visibility during loading and unloading operations at height ■ The traction unit and castor wheel are completely enclosed within the frame, providing better protection for the operator's feet ■ The CNS model can be configured with a single standard chassis and two types of mast with a rated load capacity of 1,400 kg and 2,000 kg ■ The battery compartment is fully lined with sheet metal and can accommodate DIN and BS batteries. Standard battery removal is from the side. ■ The polyethylene covers manufactured with rotational molding technology are very strong and flexible, and can withstand hard bumps without buckling.

Tiller: ■ The tiller consists of a new, single unit tiller head made of very strong plastic, and an oval-shaped tubular arm assembled by robotic welding ■ The shape and mounting of the tiller provide the best operating position for operators of all sizes ■ The lightweight tiller and easy controls greatly reduce operator fatigue even during long shifts. When released, the tiller returns smoothly to the rest position without bumping or bouncing, and without jeopardizing the safety of the operator. Tiller-operated proportional control of the lift/lower functions of the forks is standard functionality on all trucks.

Traction Unit: ■ The separately excited traction motor has a rated power of 1 kW ■ The castor wheel is easily adjusted to provide excellent grip and stability

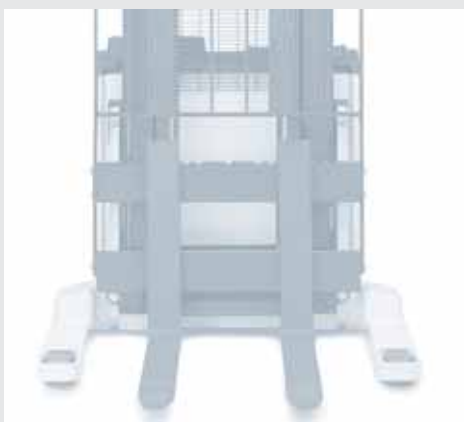
Lift Unit: ■ Masts with a rated load capacity of 1,400 kg and 2,000 kg ■ Simplex, Duplex and Triplex masts with ample visibility and lifting heights up to 5,000 mm are available ■ The masts can be delivered upon request with low free lift or high free lift of the forks. ■ Two different lift motors are available, 2.2 kW and 3 kW, to meet load capacity and lift height requirements.

Braking: The truck features two separate braking systems: ■ Service brake → Inversion braking on the traction motor (regenerative braking) performed by the electronic control when the lever is released ■ Handbrake → Electromagnetic brake

Electronic System: ■ 24 V DC power ■ High frequency static electronic control of the traction motor and pump on all models ■ The hour meter signals any malfunctions ■ The new electronic systems ensure low energy consumption and quiet operations. The control system protects the motor and battery from early wear by preventing high power spikes. ■ The electrical systems and wiring are protected to IP 54 and are waterproof and dustproof, ensuring greater reliability over time. The SAAB connector terminals are protected to IP 67.

Optional Equipment: ■ -30° cold stores conditioning ■ Dual rollers (CNS 14 ■ Slick-tire wheel (CNS 14 only) ■ 50A built-in rectifier ■ Load restrainer ■ Tiller always on

Technical data are given as an indication.
OM Carrelli Elevatori reserves the right to modify them without notice.



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