

PRELIMINARY

TECHNICAL SPECIFICATIONS

# LLS20-30-N2

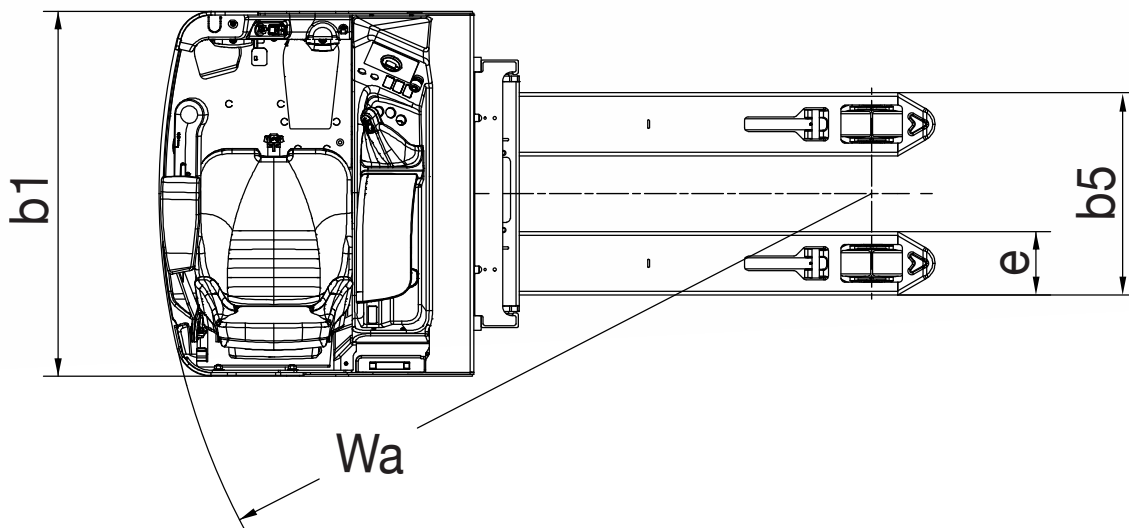
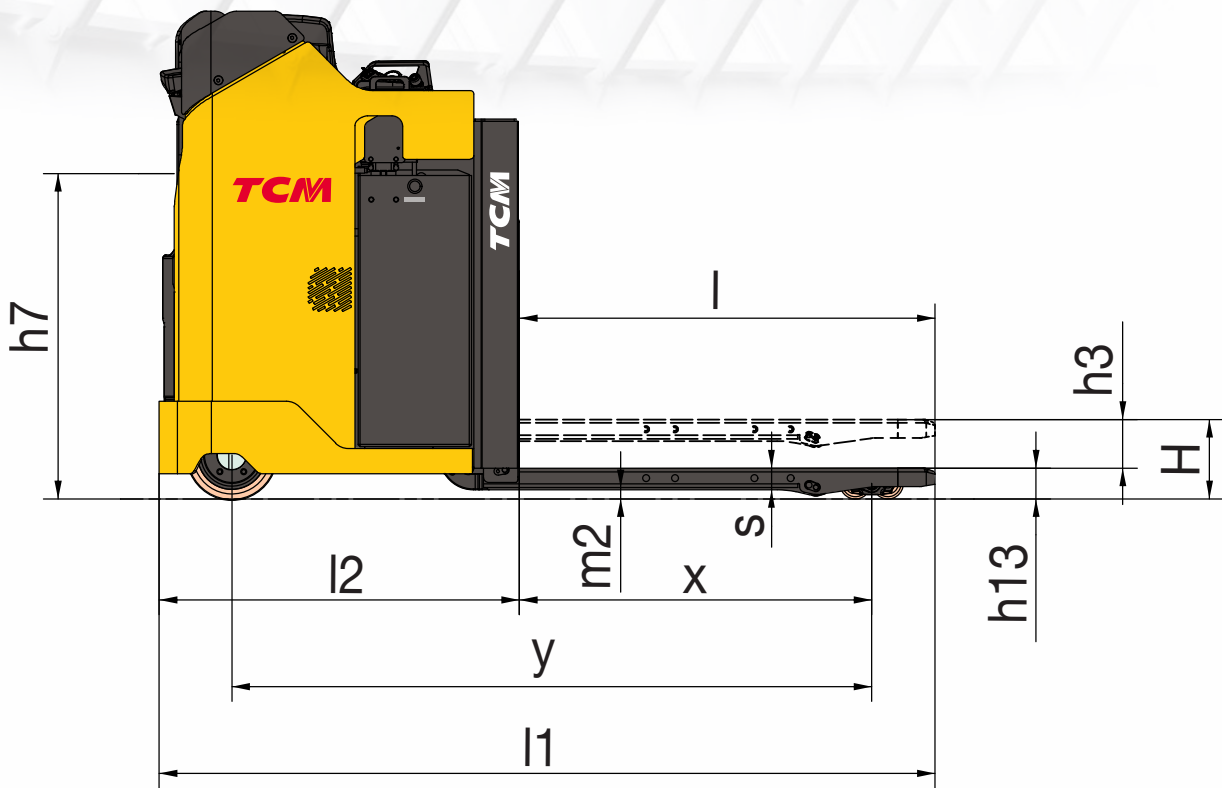


# LLS20-30-N2

## STANDARD SPECIFICATIONS PRELIMINARY

CHARACTERISTICS				LLS20-N2	LLS30-N2
1.1	Manufacturer			TCM	TCM
1.2	Manufacturer's model designation			LLS20-N2	LLS30-N2
1.3	Power source			Battery	Battery
1.4	Operator type			Sit-on	Sit-on
1.5	Load capacity	Q	(kg)	2000	3000
1.6	Load center distance	c	(mm)	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	(mm)	975	975
1.9	Wheelbase	y	(mm)	1771	1771
WEIGHT					
2.1	Truck weight without load, with maximum battery weight		kg	1360	1360
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1488 / 1842	1688 / 2672
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	1088 / 272	1088 / 272
WHEELS, DRIVE TRAIN					
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side		(mm)	250 x 105	250 x 105
3.3	Tyre dimensions, load side		(mm)	85 x 70	85 x 70
3.4	Castor wheel dimensions (diameter x width)		(mm)	150 x 55	150 x 55
3.5	Number of wheels, load / drive side (x = driven)			4 / 1x + 1	4 / 1x + 1
DIMENSIONS					
4.4	Lift height	h3	(mm)	135	135
4.8	Seat or stand height	h7	(mm)	966	966
4.15	Fork height, fully lowered	h13	(mm)	88	88
4.19	Overall length	l1	(mm)	2147	2147
4.2	Length to fork face	l2	(mm)	997	997
4.21	Overall width	b1	(mm)	1010	1010
4.22	Fork dimensions (thickness, width, length)	s / e / l	(mm)	60 / 175 / 1150	60 / 175 / 1150
4.25	Outside width over forks (minimum / maximum)	b5	(mm)	560	560
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	(mm)	25	25
4.33a	Working aisle width (Ast) with 800 x 1200 mm pallets, load crosswise	Ast	(mm)	2585	2585
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	2601	2601
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	2396	2396
4.35	Turning radius	Wa	(mm)	1909	1909
PERFORMANCE					
5.1	Travel speed, with / without load		km / h	10.0 / 10.0	09.0 / 09.0
5.2	Lifting speed, with / without load		m / s	0.07 / 0.09	0.06 / 0.10
5.3	Lowering speed, with / without load		m / s	0.12 / 0.09	0.10 / 0.07
5.7	Gradeability, with / without load		%	6.0 / 15.0	6.0 / 15.0
5.8	Maximum gradeability with / without load		%	14 / 24.2	11 / 24.2
5.9	Acceleration time (10 metres) with / without load		s	7.0 / 6.0	7.5 / 6.0
5.1	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric
ELECTRIC MOTORS					
6.1	Drive motor capacity (60 min. short duty)		kW	2.7	2.7
6.2	Lift motor output at 15% duty factor		kW	2.2 (5%)	2.2 (5%)
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah	24 / 575 - 775	24 / 575 - 775
6.5	Battery weight		kg	460 -620	460 -620
6.6b	Energy consumption according to VDI 60 cycle		kW / h		
MISCELLANEOUS					
8.1	Type of drive control			AC	AC
10.7	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ		dB (A)		
10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive / lift / idle LpAZ		dB (A)		

**DIMENSIONS**  
LLS20-30-N2



# LLS20-30-N2

## STANDARD AND OPTIONS LIST

	LLS20-30-N2
<b>GENERAL</b>	
Standard display incl. hour meter and battery indicator	●
Key switch entry	●
Electric power steering	●
Speed regulated lift motor and proportional valve for lowering	●
Tandem load wheels Vulkollan	●
Adjustable armrest, right side	●
Adjustable steering wheel, all directions	●
Storage compartment under armrest and by left side of seat	●
Ergonomic fully adjustable seat	●
Battery rollers, plastic (steel rollers with bearings in Senior models)	●
Chill store design, down to -10°C	●
Li-ION batteries	●
Lead-acid batteries	●
<b>ENVIRONMENT</b>	
Cold store design, 0C° to -30C°	●
<b>DRIVE AND LIFT CONTROLS</b>	
Mini steering wheel with floating armrest	●
Midi steering wheel	●
Finger tip controls for lifting/lowering	●
Hands-free direction control	●
Hand operated direction control	●
<b>WHEEL OPTIONS</b>	
Vulkollan	●
Tractothan	●
Super grip	●
<b>OTHER OPTIONS</b>	
Overhead guard	●
Panoramic ProVision roof (with overhead guard)	●
Electric adjustable floor height - 70mm	●
360 degree steering	●
Multi-function display incl. BDI & Hourmeter, PIN code log in (99 codes) and graphic icons	●
Load backrest	●
Key switch entry (in combination with Multi-function display)	●
12V DC power socket	●
5V USB socket	●
Accessory rack	●
Writing desk incl. RAM C holder	●
Equipment holder RAM system size C	●
Equipment holder RAM system size C, 2 pcs	●
Equipment holder RAM size D	●
Working lights LED	●
Floor spot, red or blue	●
Increased drive speed, 12 km/h in driver compartment direction	●
Special RAL colour	●

**KEY** ● Standard ● Option – Not available



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