

Sit-on Pallet Stacker

PRELIMINARY

TECHNICAL SPECIFICATIONS

SSO16-20(I)-N2



TCM
Always Evolving

SSO16-20(I)-N2

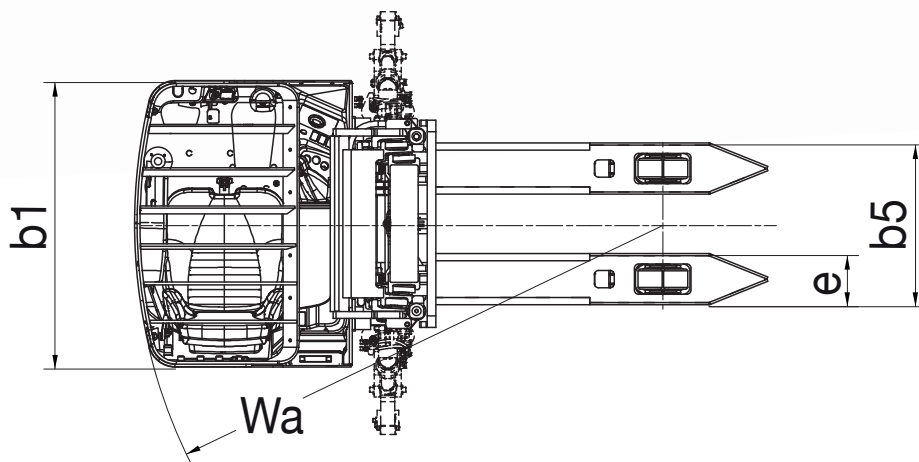
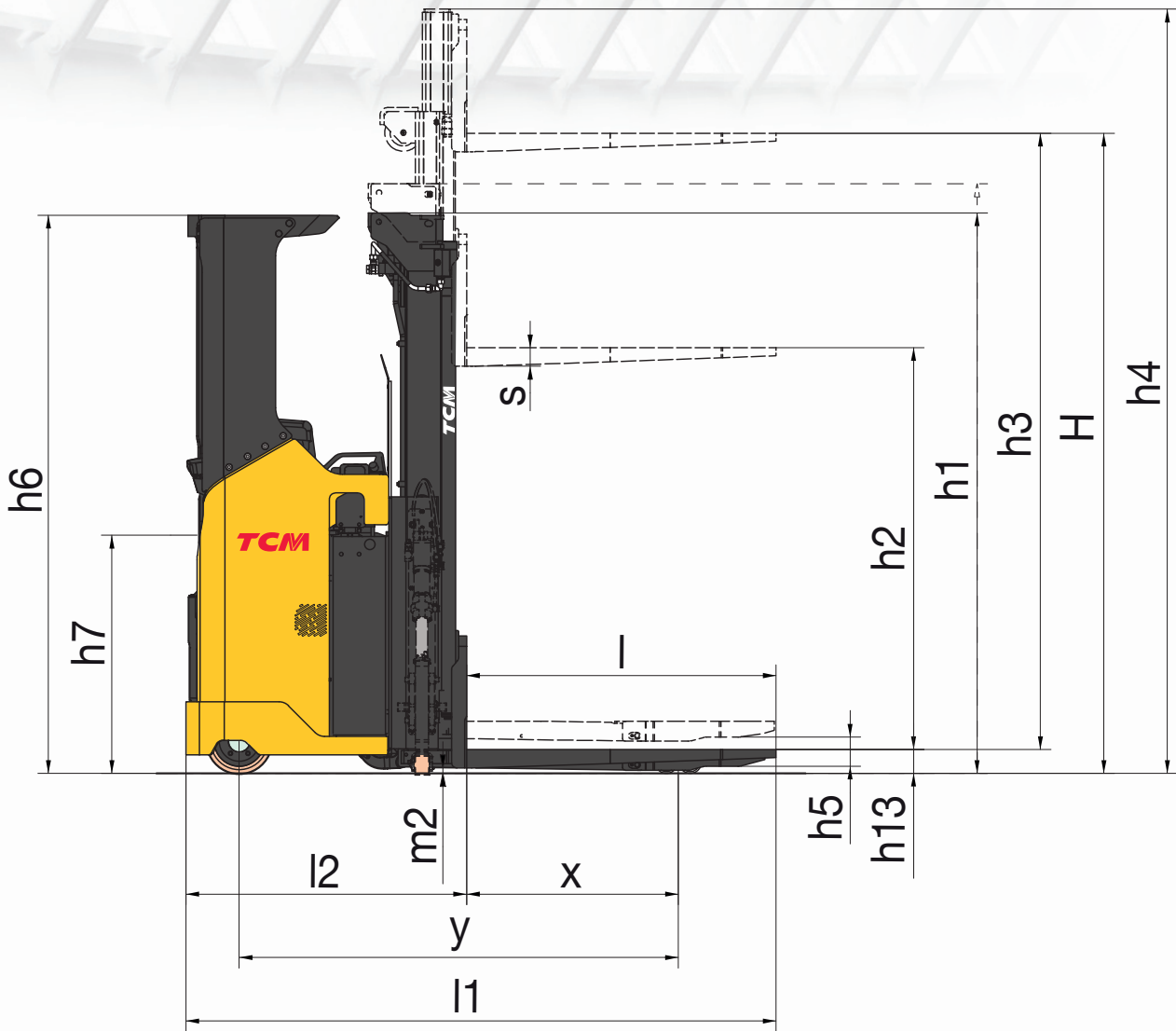
STANDARD SPECIFICATIONS

CHARACTERISTICS				WITHOUT Initial Lift		WITH Initial Lift	
1.1	Manufacturer			TCM Forklifts			
1.2	Manufacturer's model designation			SSO16-N2	SSO20-N2	SSO16I-N2	SSO20I-N2
1.3	Power source			Battery	Battery	Battery	Battery
1.4	Operator type			Sit-on	Sit-on	Sit-on	Sit-on
1.5	Load capacity	Q	(kg)	1600	2000	1600	2000
1.6	Load centre distance	c	(mm)	600	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	(mm)	800	800	800	800
1.9	Wheelbase	y	(mm)	1616 ¹	1665 ¹	1661 ¹	1720 ¹
WEIGHT							
2.1b	Truck weight, without load with maximum battery weight	kg		1866	2127	2015	2294
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg		1466 / 2000	1690 / 2438	1571 / 2045	1806 / 2488
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg		1306 / 560	1490 / 638	1411 / 605	1606 / 688
WHEELS, DRIVE TRAIN							
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side	(mm)		250 x 105	250 x 105	250 x 105	250 x 105
3.3	Tyre dimensions, load side	o	(mm)	85 / 70	85 / 70	85 / 70	85 / 70
3.4	Castor wheel dimensions (diameter x width)	(mm)		150 / 55	150 / 55	150 / 55	150 / 55
3.5	Number of wheels, load / drive side (x = driven)			1 x + 2 / 4	1 x + 2 / 4	1 x + 2 / 4	1 x + 2 / 4
DIMENSIONS							
4.2a	Height with mast lowered	h1	(mm)	see tables	see tables	see tables	see tables
4.2b	Height	h1	(mm)	see tables	see tables	see tables	see tables
4.3	Free lift	h2	(mm)	see tables	see tables	see tables	see tables
4.4	Lift height	h3	(mm)	see tables	see tables	see tables	see tables
4.5	Height with mast extended	h4	(mm)	see tables	see tables	see tables	see tables
4.6	Initial Lift	h5	(mm)	-	-	110	110
4.7	Height to top of overhead guard	h6	(mm)	2110	2110	2110	2110
4.8	Seat- or stand height	h7	(mm)	966	966	966	966
4.15	Fork height, fully lowered	h13	(mm)	87	90	93	93
4.19	Overall length	l1	(mm)	2189 ¹	2238 ¹	2233 ¹	2293 ¹
4.20	Length to fork face	l2	(mm)	1019 ¹	1068 ¹	1063 ¹	1123 ¹
4.21	Overall width	b1	(mm)	1010	1010	1010	1010
4.22	Fork dimensions (thickness, width, length)	s / e / l	(mm)	70 x 180 x 1170	70 x 195 x 1170	70 x 180 x 1170	70 x 195 x 1170
4.25	Outside width over forks (minimum / maximum)	b5	(mm)	570	570	570	570
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2	(mm)	25	23	20	20
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	2584 ²	2632 ²	2627 ²	2685 ²
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	(mm)	2419	2466	2461	2520
4.35	Turning circle radius	Wa	(mm)	1819 ²	1866 ²	1861 ²	1920 ²
PERFORMANCE							
5.1	Travel speed, with / without load	km / h		10.0 / 10.0	9.0 / 9.0	9.0 / 9.0	9.0 / 9.0
5.2	Lifting speed, with / without load	m / s		0.16 / 0.32	0.12 / 0.22	0.16 / 0.32	0.12 / 0.22
5.3	Lowering speed, with / without load	m / s		0.44 / 0.41	0.33 / 0.30	0.44 / 0.41	0.33 / 0.30
5.8	Maximum gradeability, with / without load	%		6.7 / 6.7	5.9 / 5.9	26.6 / 26.6	25.6 / 25.6
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric	Electric	Electric
ELECTRIC MOTOR							
6.1	Drive motor capacity (60 min. short duty)	kW		2.7	2.7	2.7	2.7
6.2	Lift motor output at 15% duty factor	kW		4.0	4.0	4.0	4.0
6.4	Battery voltage / capacity at 5 - hour discharge	V / Ah		24 / 375 - 775	24 / 375 - 775	24 / 375 - 775	24 / 375 - 775
6.5	Battery weight	kg		305 - 620	305 - 620	305 - 620	305 - 620
6.6a	Energy consumption according to EN 16796	kWh / h					
6.6b	Energy consumption according to VDI 60 cycle	kWh / h					
MISCELLANEOUS							
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)					
10.7.2	Whole-body vibration (EN 13 059:2002)						
10.7.3	Hand-arm vibration (EN 13 059:2002)						

1. Senior chassis add 104mm

2. Dimensions vary depending on battery carriage and mast type

DIMENSIONS



SSO16-20(I)-N2

MAST SPECIFICATIONS

MAST TYPE	Lift height (mm)	Lowered mast height (mm)	Raised mast height (mm)	Freelift (mm)	Lowered mast height (mm)	Raised mast height (mm)	Freelift (mm)
	h3 + h13	h1	h4	h2 + h13	h1	h4	h2 + h13
	SSO16-20-N2				SSO16-20I-N2		
2 STAGE FULL FREE LIFT	3600	2350	4105	1847	2355	4112	1853
	4200	2650	4705	2147	2655	4712	2153
	4500	2800	5005	2297	2805	5012	2303
3 STAGE FULL FREE LIFT	4800	2150	5332	1667	2155	5339	1673
	5400	2350	5932	1867	2355	5939	1873
	5700	2450	6232	1967	2455	6239	1973
	6300	2650	6832	2167	2655	6839	2173
	7000	2883	7532	2400	2888	7539	2406



STANDARD AND OPTIONS LIST

	SSO16-20-N2	SSO16-20I-N2
GENERAL		
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	●	●
Overhead guard	●	●
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)	●	●
Initial lift	-	●
Chill store design, down to -10°C	●	●
POWER SOURCE		
Li-ION batteries	●	●
Lead acid batteries	●	●
ENVIRONMENT		
Cold store design, 0°C to -30°C	●	●
DRIVE AND LIFT CONTROLS		
Mini steering wheel with floating armrest	●	●
Mini steering wheel	●	●
Finger tip controls for lifting/lowering	●	●
Hands-free direction control (HFDC)	●	●
Hand operated direction control (HODC)	●	●
WHEEL OPTIONS		
Vulkollan	●	●
Tractothan	●	●
Super grip	●	●

	SSO16-20-N2	SSO16-20I-N2
OTHER OPTIONS		
Side stabilisers	●	●
Electric adjustable floor height - 70mm	●	●
360 degree steering	●	●
Multi-function display incl. BDI & Hourmeter, PIN code login (100 codes) and graphic icons	●	●
High performance 8.0 kW AC hydraulic pump system	●	●
Load backrest	●	●
Key switch entry (in combination with Multi-function display)	●	●
Laser positioning guide	●	●
Load weight indicator	●	●
Lift height indicator	●	●
Level assistance system LAS	●	●
Panoramic ProVision roof	●	●
12V DC Power Socket	●	●
5 V 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

info@tcm.eu | tcm.eu

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