

PRELIMINARY

TECHNICAL SPECIFICATIONS

SRO12-20(I)-N2



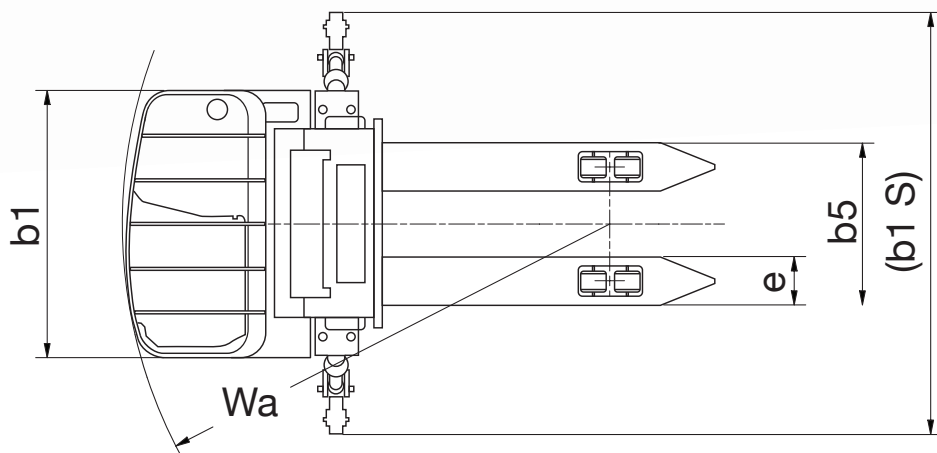
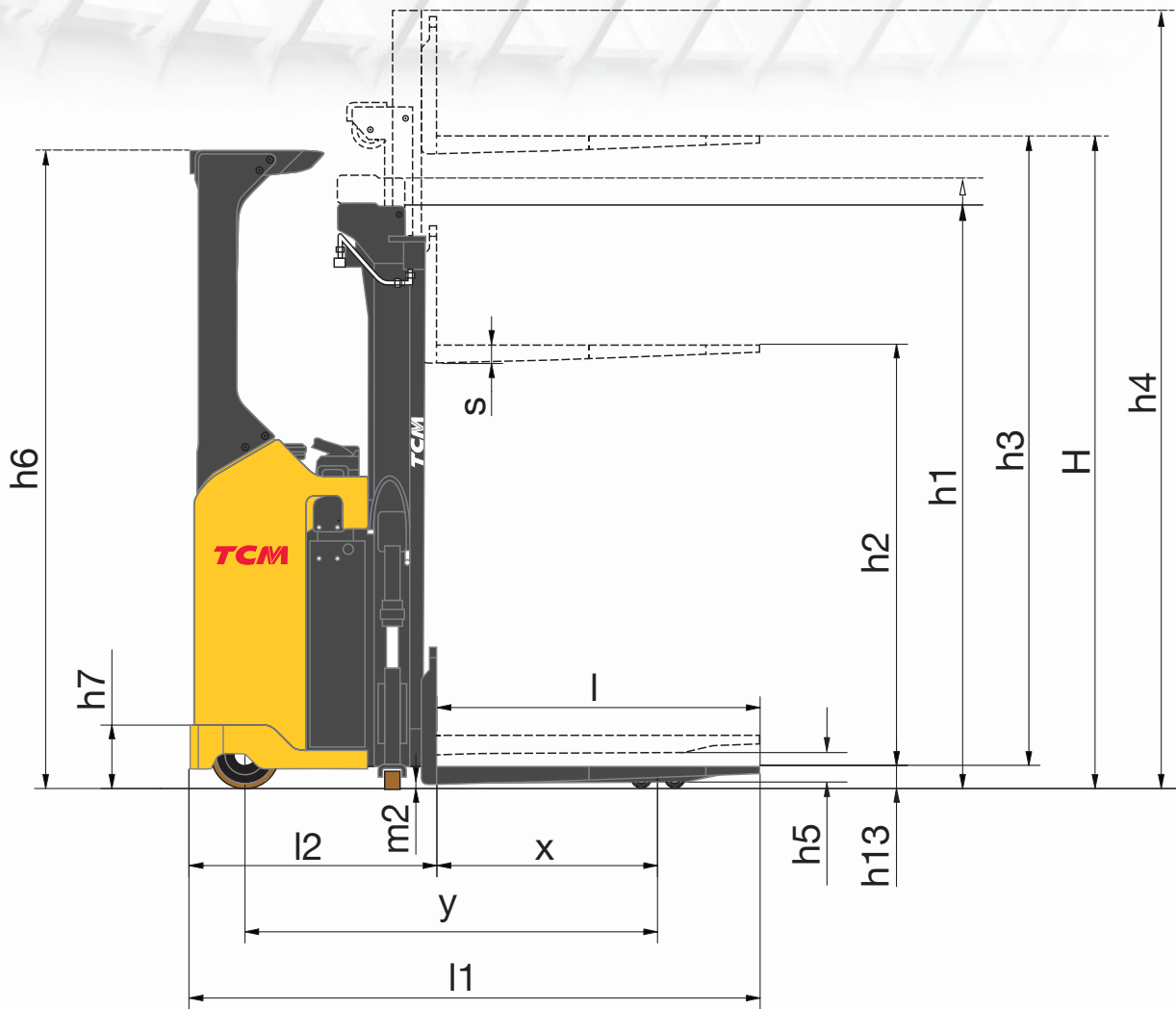
SRO12-20(I)-N2

STANDARD SPECIFICATIONS

CHARACTERISTICS				WITHOUT Initial Lift			WITH Initial Lift			
1.1	Manufacturer (abbreviation)			TCM Forklifts						
1.2	Manufacturer's model designation			SRO12-N2	SRO16-N2	SRO20-N2	SRO12I-N2	SRO16I-N2	SRO20I-N2	
1.3	Power source:			Battery	Battery	Battery	Battery	Battery	Battery	
1.4	Operator type: pedestrian, (operator) - standing, - seated			Stand-in	Stand-in	Stand-in	Stand-in	Stand-in	Stand-in	
1.5	Load capacity	Q	(kg)	1250	1600	2000	1250	1600	2000	
1.6	Load centre distance	c	(mm)	600	600	600	600	600	600	
1.8	Load distance, axle to fork face	x	(mm)	800	800	800	800	800	800	
1.9	Wheelbase	y	(mm)	1422	1496	1545	1501	1541	1600	
WEIGHT										
2.1a	Truck weight, with load with maximum battery weight			kg	2682	3356	4018	2876	3506	4184
2.1b	Truck weight, without load with maximum battery weight			kg	1432	1756	2018	1626	1906	2184
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side			kg	1127 / 1555	1389 / 1967	1613 / 2405	1263 / 1613	1494 / 2012	1729 / 2455
2.3	Axle loadings without load & with maximum battery weight, drive / load side			kg	1002 / 430	1229 / 527	1413 / 605	1138 / 488	1334 / 572	1529 / 655
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	Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side			(mm)	250 x 105	250 x 105	250 x 105	250 x 105	250 x 105	250 x 105
3.3	Tyre dimensions, load side			ø (mm)	85 / 70	85 / 70	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	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	1 x + 2 / 4	1 x + 2 / 4
3.6	Track width (centre of tyres), drive side			b10 (mm)	662	662	662	662	662	662
3.7	Track width (centre of tyres), load side			b11 (mm)	402	402	392	390	390	375
DIMENSIONS										
4.2a	Height with mast lowered			h1 (mm)	see tables	see tables	see tables	see tables	see tables	see tables
4.2b	Height			h1 (mm)	see tables	see tables	see tables	see tables	see tables	see tables
4.3	Free lift			h2 (mm)	see tables	see tables	see tables	see tables	see tables	see tables
4.4	Lift height			h3 (mm)	see tables	see tables	see tables	see tables	see tables	see tables
4.5	Height with mast extended			h4 (mm)	see tables	see tables	see tables	see tables	see tables	see tables
4.6	Initial Lift			h5 (mm)	-	-	-	110	110	110
4.7	Height to top of overhead guard			h6 (mm)	2310	2310	2310	2310	2310	2310
4.8	Seat- or stand height			h7 (mm)	230	230	230	230	230	230
4.10	Height of support legs			h8 (mm)	82	80	83	87	87	87
4.15	Fork height, fully lowered			h13 (mm)	89	87	90	93	93	93
4.19	Overall length			l1 (mm)	1995	2069	2118	2073	2113	2173
4.20	Length to fork face (includes fork thickness)			l2 (mm)	825	899	948	903	943	1003
4.21	Overall width			b1 / b2 (mm)	940	940	940	940	940	940
4.22	Fork dimensions (thickness, width, length)			s / e / l (mm)	70 x 180 x 1170	70 x 180 x 1170	70 x 195 x 1170	70 x 180 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	570	570
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)			m2 (mm)	32	25	23	20	20	20
4.33	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise*			Ast (mm)	2475	2548	2593	2552	2591	2622
4.34	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise*			Ast (mm)	2409	2481	2527	2486	2525	2556
4.35	Turning circle radius			Wa (mm)	1643	1716	1761	1720	1759	1790
PERFORMANCE										
5.1	Travel speed, with / without load			km / h	10.0 / 10.0	10.0 / 10.0	9.0 / 9.0	9.0 / 9.0	9.0 / 9.0	9.0 / 9.0
5.2	Lifting speed, with / without load			m / s	0.21 / 0.37	0.15 / 0.32	0.12 / 0.22	0.21 / 0.37	0.15 / 0.32	0.12 / 0.22
5.3	Lowering speed, with / without load			m / s	0.55 / 0.41	0.45 / 0.42	0.33 / 0.30	0.55 / 0.41	0.45 / 0.42	0.33 / 0.30
5.8	Maximum gradeability, with / without load			%	9.0 / 9.0	6.7 / 6.7	5.9 / 5.9	10.0 / 16.0	10.0 / 16.0	10.0 / 16.0
5.9	Acceleration time (10 metres), with / without load			s						7.0 / 6.0
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)				Electric	Electric	Electric	Electric	Electric	Electric
ELECTRIC MOTOR										
6.1	Drive motor capacity (60 min. short duty)			kW	2.7	2.7	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	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	24 / 375 - 775	24 / 375 - 775
6.5	Battery weight			kg	330 - 610	330 - 610	330 - 610	330 - 610	330 - 610	330 - 610
6.6	Energy consumption according to EN 16796			kWh / h				0.878		
MISCELLANEOUS										
8.1	Type of drive control				AC	AC	AC	AC	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)		67,3			67,3	
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)		71,5/68,9/53,3			71,5/68,9/53,3	

*Based on junior chassis and two stage mast

DIMENSIONS



SRO12-20(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
				SRO12-N2		SRO12(I)-N2	
2 STAGE	3290	2157	3720	159 <small>(h2-70)</small>	2162	3725	163 <small>(h2-70)</small>
	3590	2307	4020	159 <small>(h2-70)</small>	2312	4025	163 <small>(h2-70)</small>
	4190	2607	4620	159 <small>(h2-70)</small>	2612	4625	163 <small>(h2-70)</small>
2 STAGE FULL FREE LIFT	3290	2157	3720	1726	2162	3725	1730
	3590	2307	4020	1876	2312	4025	1880
	4190	2607	4620	2176	2612	4625	2180
				SRO16-20-N2		SRO16-20(I)-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

	SRO12(I)-N2	SRO16-20(I)-N2
GENERAL		
Junior chassis - 465Ah	●	●
Senior chassis - 775Ah	-	●
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	●	●
Adjustable steering wheel	●	●
Storage compartment under armrest	●	●
Writing desk with paper clip	●	●
Battery rollers	●	●
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		
Height adjustable steering wheel	●	●
Finger tip controls for lifting/lowering	●	●
WHEEL OPTIONS		
Vulkollan	●	●
Tractothan	●	●
Super grip	●	●

	SRO12(I)-N2	SRO16-20(I)-N2
OTHER OPTIONS		
Side stabilisers	-	●
Forks Trailing Control	●	●
360 degree steering	●	●
Multifunction display incl. BDI & Hourmeter, PIN code login (100 codes) and graphic icons	●	●
Foldable seat	●	●
Load backrest	●	●
Key switch entry (in combination with Multi function display)	●	●
Laser positioning guide	-	●
Load weight indicator	●	●
Lift height indicator	-	●
Level assistance system LAS	-	●
Loading assistance	-	●
Panoramic roof	●	●
12V DC Power Socket	●	●
5 V USB socket	●	●
Accessory rack	●	●
Writing desk incl. RAM C holder	●	●
Accessory rack holder RAM system size C	●	●
Accessory rack holder RAM system size C, 2 pcs	●	●
Accessory rack holder RAM size D	●	●
Working lights LED	●	●
Increased drive speed	●	●
Special RAL colour	●	●

KEY ● Standard ● Option - Not available

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TCM
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