PSW13E(I)-Q2



TCM LiTE Range, optimal specification for day to day operations, without compromising engineering excellence, long-term performance and outstanding reliability.

EASY TO USE, SIMPLE TO MAINTAIN.

TCM PSW13E-Q2 & PSW13EI-Q2 with compact, lightweight design, without or with initial lift for dual pallet transport, and 1300 kg load capacity, are configured for light-duty, every day stacking needs and **agility in tight warehouse spaces.** The steel chassis cover provides robust protection against impact, lowering maintenance costs and extending truck life.

The high capacity, **fast charging** 24V/100Ah **Li-ION battery** is long-lasting with low operating costs and is maintenance free. Includes in-built **Battery Management System** and integrated charger for charging anywhere, with built-in USB port to charge essential devices including barcode scanners and mobile phones.

Ergonomic, **multi-functional tiller head** with creep button enhances operator comfort and control. Automatic speed reduction in curves promotes safer handling of unstable loads, reducing the risk of accidents and damage. **Duplex mast** with free lift (PSW13EI-Q2) allows full lift without increasing overall mast height, and semi-hydraulics enable a smooth start, ideal for safe, effective stacking in low-clearance areas and **Plexiglass mast guard** improves operator visibility.

PIN code access restricts use to authorised operators and RFID access ensures ultimate safety and control of fleet. Conveniently placed external diagnostics port speeds up servicing and fault resolution.



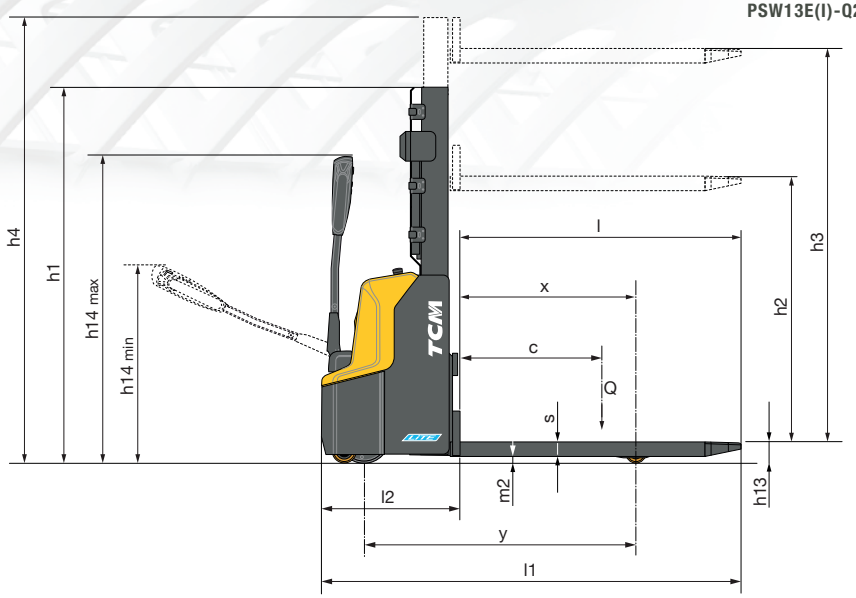
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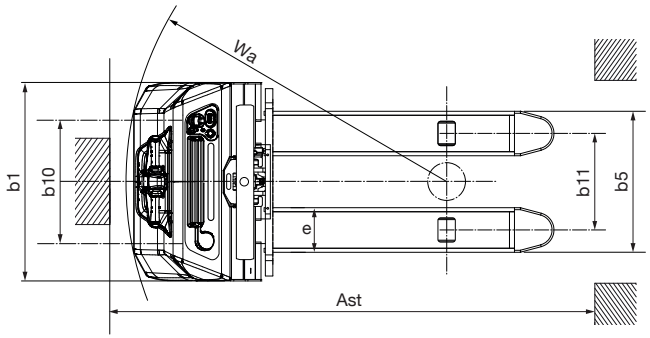
STANDARD SPECIFICATIONS PRELIMINARY

CHARACTERISTICS				Two Stage Mast		Three Stage Mast	
1.1	Manufacturer			TCM			
1.2	Manufacturer's model designation			PSW13E-Q2	PSW13EI-Q2	PSW13E-Q2	PSW13EI-Q2
1.3	Power source			Battery	Battery	Battery	Battery
1.4	Operator type			Pedestrian	Pedestrian	Pedestrian	Pedestrian
1.5	Load capacity	Q	kg	1300	1300	1300	1300
1.6	Load center distance	c	(mm)	600	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	(mm)	710	758	693	650
1.9	Wheelbase	y	(mm)	1097	1197	1097	1109
WEIGHT							
2.1b	Truck weight without load, with maximum battery weight		kg	670	790	732	807
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	560 / 1410	695 / 1395	585 / 1447	701 / 1406
2.3	Axle loadings without load & maximum battery weight, drive / load side		kg	480 / 190	540 / 250	520 / 212	562 / 245
WHEELS, DRIVE TRAIN							
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			P / P	P / P	P / P	P / P
3.2	Tyre dimensions, drive side		(mm)	210 x 75	210 x 75	210 x 75	210 x 75
3.3	Tyre dimensions, load side	ø	(mm)	84 x 93	84 x 93	84 x 93	84 x 93
3.4	Castor wheel dimensions (diameter x width)		(mm)	100 x 50	100 x 50	100 x 50	100 x 50
3.5	Number of wheels, load / drive side (x = driven)			1x +1/2	1x +1/2	1x +1/2	1x +1/4
3.6	Track width (center of tyres), drive side	b10	(mm)	550	550	550	550
3.7	Track width (center of tyres), load side	b11	(mm)	400 / 515	390 / 505	400 / 515	390 / 515
DIMENSIONS							
4.2a	Height with mast lowered	h1	(mm)	see table	see table	see table	see table
4.3	Free lift	h2	(mm)	see table	see table	see table	see table
4.4	Lift height (stroke)	h3	(mm)	see table	see table	see table	see table
4.5	Height with mast extended	h4	(mm)	see table	see table	see table	see table
4.6	Initial lift (stroke)	h5	(mm)	-	120	-	120
4.9	Height of tiller arm / steering console (min./max.)	h14	(mm)	710 / 1150	710 / 1150	710 / 1150	710 / 1150
4.15	Fork height, fully lowered	h13	(mm)	90	90	90	90
4.19	Overall length	l1	(mm)	1710	1762	1724	1776
4.20	Length to fork face	l2	(mm)	560	612	574	626
4.21	Overall width	b1	(mm)	800	800	800	806
4.22	Fork dimensions (thickness, width, length)	s /e / l	(mm)	60 / 180 / 1150	60 / 180 / 1150	60 / 180 / 1150	60 / 180 / 1150
4.25	Outside width over forks (minimum / maximum)	b5	(mm)	570 / 685	570 / 685	570	570
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	(mm)	24	24	25	25
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	(mm)	2167	2247	2167	2247
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	2133	2197	2133	2197
4.35	Turning radius	Wa	(mm)	1300	1400	1300	1400
PERFORMANCE							
5.1	Travel speed, with / without load		km / h	4.2 / 4.5	4.2 / 4.5	4.2 / 4.5	4.2 / 4.5
5.2	Lifting speed, with / without load		m / s	0.10 / 0.14	0.10 / 0.14	0.10 / 0.14	0.10 / 0.14
5.3	Lowering speed, with / without load		m / s	0.13 / 0.11	0.13 / 0.11	0.13 / 0.11	0.13 / 0.11
5.8	Maximum gradeability with / without load		%	4 / 10	4 / 10	4 / 10	4 / 10
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
ELECTRIC MOTORS							
6.1	Drive motor capacity (60 min. short duty)		kW	0.65	0.65	0.65	0.65
6.2	Lift motor output at 15% duty factor		kW	2.2	2.2	2.2	2.2
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah	24 / 100	24 / 100	24 / 100	24 / 100
6.5	Battery weight		kg	26	26	27	27
6.6b	Energy consumption according to VDI60 cycle		kWh / h	0.68	0.69	0.7	0.69
MISCELLANEOUS							
8.1	Type of drive control			DC	DC	DC	DC
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)	<70	<70	<70	<70

OPTIONS
AGM sealed lead acid, 24V / 106Ah battery with 12A internal charger

DIMENSIONS
PSW13E(I)-Q2





MAST SPECIFICATION PSW13E-Q2					
MAST TYPE	Lift + fork height (mm)	Lift height (mm)	Lowered mast height (mm)	Free lift height (mm)	Extended mast height (mm)
	h3 + h13	h3	h1	h2	h4
TWO STAGE	2600	2510	1780	1300	2990
	2900	2810	1930	1450	3290
	3200	3110	2080	1600	3590
	3600	3510	2280	1800	3990
THREE STAGE	4300	4210	1982	1440	4752

MAST SPECIFICATION PSW13EI-Q2					
MAST TYPE	Lift + fork height (mm)	Lift height (mm)	Lowered mast height (mm)	Free lift height (mm)	Extended mast height (mm)
	h3 + h13	h3	h1	h2	h4
TWO STAGE	2600	2510	1820	1300	3033
	2900	2810	1970	1450	3330
	3200	3110	2120	1600	3630
	3600	3510	2320	1800	4030
THREE STAGE	4200	4120	1986	1410	4680

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