STW12(L)EU/STW12(L)ESU



SMART PALLET STACKERS

LITHIUM / LEAD-ACID BATTERY

STW - SMART PALLET STACKERS

The compact STW-series pallet stackers deliver reliable lifting performance, especially in smaller spaces. Perfect for light-to-medium operations, the STW-series pallet stackers feature a smart control system and robust design, for safety and reliability. Choose between the electric or lead-acid battery.

PERFORMANCE

- Electric lifting system ensures smooth load handling and stacking control
- High residual capacity maintains performance at maximum lift height
- Stable gradeability supports travel across inclined warehouse floors



SAFETY

- Vertical tiller driving function ensures safe operation in confined spaces
- Stable travel speed with automatic speed reduction in turns
- Wide mast improves load handling safety

COMFORT

- Ergonomic smart tiller enables intuitive, low-fatigue control
- Dual butterfly thumb controls support precise travel operation
- Air-spring tiller return improves handling comfort





STRUCTURE & DURABILITY

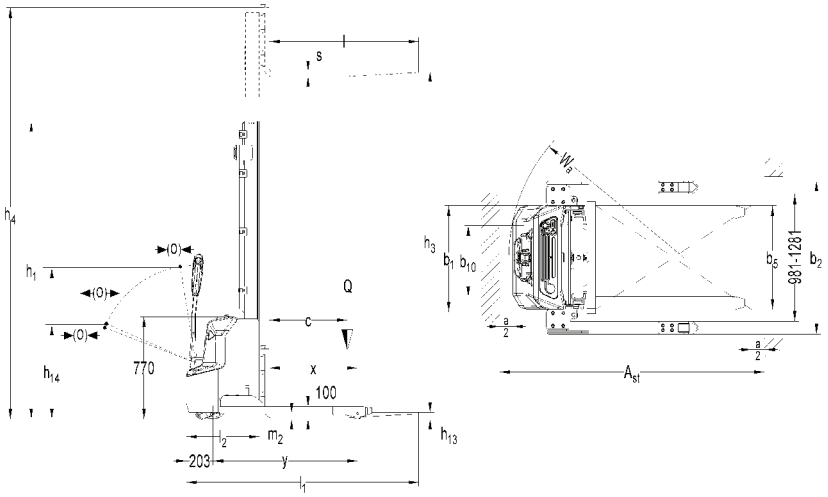
- Welded forks and reinforced chassis enhance load stability
- Steel main cover protects internal components
- Ideal for use on mezzanines

TECHNOLOGY

- Smart PIN-code access for fleet security
- Additional RFID access for battery-operated option
- Battery discharge indicator and hour meter support usage monitoring
- On-board diagnostics enable quick fault identification

SPECIFICATIONS

CHARACTERISTICS							
1.1	Manufacturer (abbreviation)			TCM Stackers			
1.2	Manufacturer's model designation			**STW12EU**	**STW12LEU**	**STW12ESU**	**STW12LESU**
1.3	Power source:			Battery	Battery	Battery	Battery
1.4	Operator type: pedestrian, (operator) - standing, - seated			Pedestrian	Pedestrian	Pedestrian	Pedestrian
1.5	Load capacity	Q	(kg)	1200	1200	1200	1200
1.6	Load centre distance	c	(mm)	600	600	600	600
1.7	Load distance, centre of drive axle to fork	x	(mm)	760	760	674	674
1.8	Wheelbase	y	(mm)	1147	1147	1111	1111
WEIGHT							
2.1	Truck weight, without load with maximum battery weight		kg	620	585	860	825
2.2	Axle loading, unladen front/rear		kg	580/1240	560/1225	760 / 1300	745/1280
2.3	Axle loading, unladen front/rear		kg	540/170	440/145	650 / 210	625/200
WHEEL CHASSIS							
3.1	Tyre			Polyurethane	Polyurethane	Polyurethane	Polyurethane
3.2	Tyre dimensions, front	Øxw	(mm)	Ø 210 x 75	Ø 210 x 75	Ø 210 x 75	Ø 210 x 75
3.3	Tyre dimensions, rear	Øxw	(mm)	Ø 84 x 93	Ø 84 x 93	Ø 84 x 93	Ø 84 x 93
3.4	Additional wheels (dimensions)	Øxw	(mm)	Ø 100 x 50	Ø 100 x 50	Ø 100 x 40	Ø 100 x 40
3.5	Number of wheels, front / rear (x = driven)			1x + 1 / 2	1x + 1 / 2	1x + 2 / 2	1x + 2 / 2
3.6	Track width (centre of tyres), front	b10	(mm)	550	550	520	520
3.7	Track width (centre of tyres), rear	b11	(mm)	400 / 515	400 / 515	N.A.	N.A.
DIMENSIONS							
4.1	Lowered mast height	h1	(mm)	2280	2280	2290	2290
4.2	Lift height	h3	(mm)	3514	3514	3514	3514
4.3	Extended mast height	h4	(mm)	4037	4037	4064	4064
4.4	Height of tiller in drive position min./ max.	h14	(mm)	710 / 1150	710 / 1150	710 / 1150	710 / 1150
4.5	Height, lowered	h13	(mm)	86	86	60	60
4.6	Overall length	l1	(mm)	1710	1710	1790	1790
4.7	Length to face of forks	l2	(mm)	560	560	640	640
4.8	Overall width	b1	(mm)	800	800	800 (1181 / 1281 / 1381 / 1481)	800 (1181 / 1281 / 1381 / 1481)
4.9	Fork dimensions	s/e/l	(mm)	60 / 180 / 1150	60 / 180 / 1150	40 / 100 / 1150	40 / 100 / 1150
4.10	Distance between fork-arms	b2	(mm)	570 / 685	570 / 685	225 - 800	252 - 800
4.11	Ground clearance, centre of wheelbase	m2	(mm)	26	26	40	40
4.12	Aisle width for pallets 1000X1200 crossways	Ast	(mm)	2197	2197	2228	2228
4.13	Aisle width for pallets 800X1200 lengthways	Ast	(mm)	2145	2145	2206	2206
4.14	Turning radius	Wa	(mm)	1350	1350	1345	1345
PERFORMANCE DATA							
5.1	Travel speed, laden / unladen		km / h	4.5 / 4.7	4.5 / 4.7	4.2 / 4.5	4.2 / 4.5
5.2	Lift speed, laden / unladen		m/s	0.11 / 0.14	0.11 / 0.14	0.11 / 0.14	0.11 / 0.14
5.3	Lowering speed, laden / unladen		m/s	0.13 / 0.11	0.13 / 0.11	0.13 / 0.11	0.13 / 0.11
5.4	Maximum gradeability, laden / unladen		%	5 / 10	5 / 10	4 / 10	4 / 10
5.5	Service brakes			Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
ELECTRIC MOTOR							
6.1	Drive motor rating		kW	0.65	0.65	0.65	0.65
6.2	Lift motor rating		kW	2.2	2.2	2.2	2.2
6.3	Battery acor. DIN 43531 / 35 / 36 A, B, C, no			No	No	No	No
6.4	Battery voltage, nominal capacity (K5)		V/Ah	2x12/85	24/60	2x12/85	24/60
6.5	Battery weight		kg	2x27	17	2x27	17
6.6	Energy consumption		kWh/h	0.8	0.8	0.6	0.6
MISCELLANEOUS							
7.1	Type of drive control			DC	DC	DC	DC
7.2	Level of noise at the ear level of the driver according to EN 12 053		dB (A)	< 70	< 70	< 70	< 70





Scan for
E-Brochure

Please follow
our LinkedIn

© 2026 by MLAP. All rights reserved.

Note:
These products and specifications are subject to change without notice.
Photos and illustrations may or may not include optional equipment and accessories.
Features and specification may vary depending on markets.
Performance data and dimensions are normal and subject to tolerances.
Produced in ISO certified factory.

FLITE0008 (08/26) Printed in Singapore.

PRESENTED BY :