

ELECTRIC STACKER

PS16 TSL
Walkie Straddle Stacker

NOBLELIFT
Built for better.

OVERVIEW

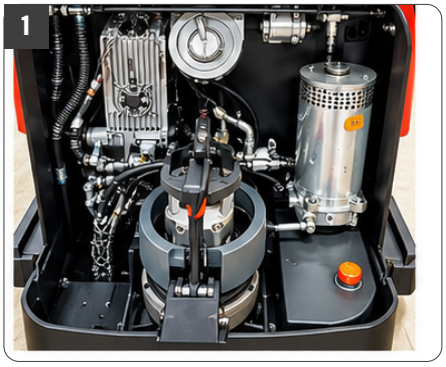
BUILT FOR BETTER.

The PS16TSL is a straddle-leg electric pedestrian stacker built to lift 1,600kg loads to 5.2 metres — a compact, easy-to-handle way to stack and retrieve pallets in tight spaces. A powerful, maintenance-free German AC power train and fully proportional hydraulics give smooth, precise lifting at any height, while a long ergonomic tiller keeps the operator at a safe, comfortable distance. Adjustable straddle legs suit a range of pallet sizes, and a stable three-wheel design keeps it sure-footed. Simple to operate and easy to maintain, it's a dependable everyday stacker.



Key Features

1



Powerful German AC power train

A maintenance-free German AC drive delivers strong, reliable power for day-in, day-out stacking.

2



Full proportional lift and lower

Electronic proportional hydraulics give accurate positioning and smooth lifting at any speed — a real productivity gain at height.

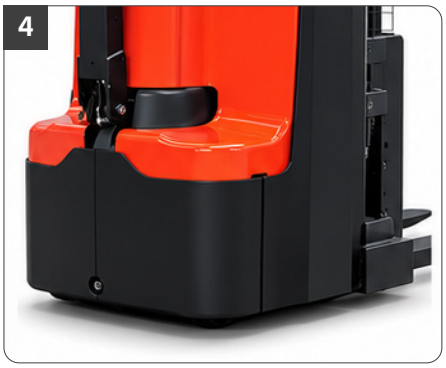
3



Long tiller for comfort and safety

A long tiller keeps the operator at a safe distance with light, precise control, and varied handle heights suit different operators.

4



Stable three-wheel design

A three-wheel structure keeps the stacker sure-footed and easy to manoeuvre in tight spaces.

5



CAN-bus technology

Fewer wires for greater dependability, with easier adjustment and troubleshooting, and a clear digital display that outperforms analogue.

6



ZAPI controller

A ZAPI controller with battery indicator, hour meter and fault-code display makes monitoring and maintenance simple.



INTELLIGENT SAFE AND RELIABLE.

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Well-designed, safe and easy to maintain.



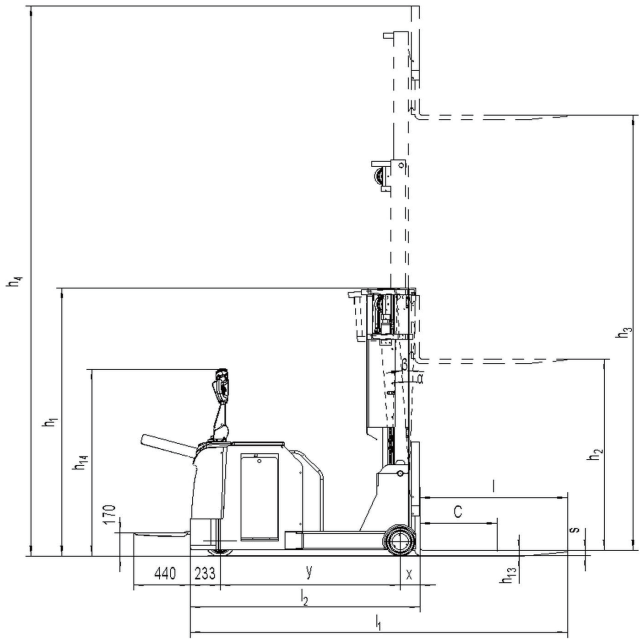
FEATURE	
Adjustable straddle legs	A multi-position straddle adjusts to diverse pallet sizes and widths, for easy loading and excellent stability.
Built-in USB connector	Charge devices on the move during warehouse operations.
Generous free lift	Up to 1,520mm of free lift raises the forks well before the mast extends — handy for stacking under low ceilings or working inside containers.
Maintenance friendly	Just two screws hold the cover; the drive wheel and caster can be removed and replaced without lifting equipment.
Robust design	Built from top-quality components to outperform and outlast comparable stackers.
Compact design	A compact, manoeuvrable footprint makes light work of tight aisles, doorways and storage in cramped spaces.

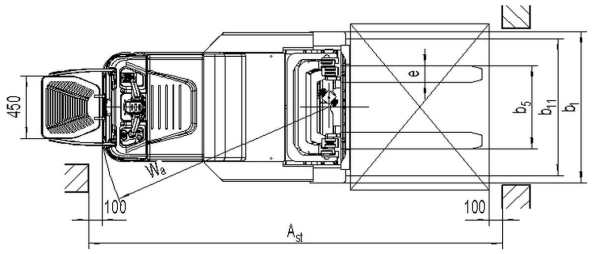
Specifications - PS16TSL

Identification		
Manufacturer's type designation		PS16TSL (4580)
Drive		Battery
Operator type		Pedestrian
Load capacity / rated load	Q (t)	1.6
Load centre distance	c (mm)	600
Load distance, centre of drive axle to fork	x (mm)	664
Wheelbase	y (mm)	1378
Weights		
Service weight	kg	1480
Axle load at full load, drive side / load side	kg	827 / 2253
Axle load at no load, drive side / load side	kg	864 / 616
Wheels Chassis		
Tires		Polyurethane (PU)
Tire size, front	Øxw (mm)	Ø 230×70
Tire size, rear	Øxw (mm)	Ø 84×70
Additional wheels (dimensions)	Øxw (mm)	Ø 100x40
Wheels, number front / rear (x=driven)		1x+2/4
Tread, front	b10 (mm)	500
Dimensions		
Lowered mast height	h1 (mm)	2108
Free lift height	h2 (mm)	1520
Lift	h3 (mm)	4510
Extended maximal height	h4 (mm)	5080
Height of tiller in drive position min / max	h14 (mm)	890 / 1420
Height, lowered	h13 (mm)	50
Overall length	l1 (mm)	2075
Length to face of forks	l2 (mm)	925
Overall width	b1 (mm)	816 / 1170-1470
Fork dimensions	s/e/l (mm)	40x100x1150
Width across forks	b5 (mm)	222-830
Ground clearance, centre of wheelbase	m2 (mm)	40
Aisle width for pallets 1000×1200 crossways	Ast (mm)	2437
Aisle width for pallets 800×1200 lengthways	Ast (mm)	2418
Turning radius	Wa (mm)	1550
Performance Data		
Travel speed, laden / unladen	km/h	5.4 / 6.0
Lift speed, laden / unladen	mm/s	0.13 / 0.18
Lowering speed, laden / unladen	mm/s	0.20 / 0.14
Max. gradeability, laden / unladen	%	6 / 12
Service brake		Electromagnetic
E-Motor		
Drive motor rating S2 60 min	kW	1.4
Lift motor rating at S3 10%	kW	3.2
Battery acc. to DIN 43531/35/36 A, B, C, no		3VBS
Battery voltage, nominal capacity K5	V/Ah	24 / 270
Battery weight	kg	230
Energy consumption acc. to VDI cycle	kWh/h	1.59
Other		
Type of drive control		AC- speed control
Sound level at driver's ear acc. to EN 12053	dB(A)	<70

Mast options

Designation	Lowered mast h1 (mm)	Free lift h2 (mm)	Lift height h3 (mm)	Extended mast h4 (mm)	Lift + fork h3+h13 (mm)
Two-stage mast	1958	/	2810	3380	2860
	2108	/	3110	3680	3160
	2308	/	3510	4080	3560
Two-stage mast FFL (Full-Free-Lift)	1958	1410	2810	3380	2860
	2108	1560	3110	3680	3160
	2308	1760	3510	4080	3560
Three-stage mast	2008	/	4210	4780	4260
	2108	/	4510	5080	4560
Three-stage mast FFL (Full-Free-Lift)	1908	1320	3910	4480	3960
	2008	1420	4210	4780	4260
	2108	1520	4510	5080	4560
	2343	1756	5210	5780	5260







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LITHIUM BATTERY

LONG LASTING AND SAFE LITHIUM POWER.

NOBLELIFT uses LiFePO4 chemistry — the longest-lasting and safest lithium battery chemistry available. Every battery is equipped with a Battery Management System (BMS), a thermal management system, and an intelligent control system. The BMS monitors all charging and discharging data to keep the battery safe throughout its life cycle.

Our lithium battery packs are backed by a 5-year / 10,000 hour warranty.

Advantages of Lithium Power

	LEAD-ACID BATTERY	LITHIUM BATTERY
PRODUCTIVITY	Lower fleet availability — work is interrupted because the battery must be fully charged before next use.	100% fleet availability — opportunity charging tops the battery up between use.
SERVICE LIFE	Periodic battery replacement.	Lasts up to 3 times longer and doesn't need replacing.
ONGOING MAINTENANCE	Outsourced or in-house maintenance personnel required.	No maintenance cost.
CHARGE DURATION	8–10 hours — 2 or more batteries per machine.	2–3 hours — 1 battery per machine.
BATTERY ROOM	Requires an expensive, ventilated battery room.	No battery room needed.
SAFETY	Releases hydrogen while charging (explosion risk); acid burns possible during maintenance.	No dangerous substances.
POWER SAVINGS	Power loss.	No power loss — reduces energy consumption by up to 35%.



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SERVICING, PARTS & SUPPORT.

At Noblelift, we understand that reliable servicing and maintenance are essential to keeping your operation running smoothly. That's why we offer comprehensive support tailored to the needs of your Noblelift fleet. With our commitment to excellence and customer satisfaction, you can trust us to keep your equipment operating at peak performance.

Through our nationwide New Zealand network we can provide:

NATIONAL TECHNICAL SUPPORT

Help by phone or on site, nationwide.

FULLY STOCKED PARTS

Genuine parts held in stock across NZ.

MAINTENANCE & SERVICE CONTRACTS

Flexible plans built around your operation.

DEDICATED SERVICE TEAM

Factory-trained technicians with the product knowledge and diagnostic tools to keep your fleet running.

GENUINE PARTS & ACCESSORIES

A full inventory of genuine Noblelift parts, ready when you need them.

BACK-UP MACHINERY

A rental and support fleet on standby to keep you moving through any downtime.

CUSTOMER TRAINING & SUPPORT

Hands-on operator and maintenance training so your team works safely and efficiently.

SCHEDULED MAINTENANCE PROGRAMS

Proactive, tailored servicing that catches issues early and prevents costly breakdowns.

24/7 EMERGENCY SUPPORT

Round-the-clock help to get you back up and running fast.



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Talk to our team for sales and enquires

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Noblelift New Zealand.