

DS3

ELECTRIC PEDESTRIAN STACKER 1500KG

 1500 kg  3018 mm  24 V Lead Acid/Li-ion



The DS3 is designed for low- to-medium intensity stacking, loading, and transportation tasks in warehouses, retail stores, and small distribution centers. Its compact size and tight turning radius make it ideal for operations in narrow aisles, shop floors, and production areas. Whether stacking pallets on racks or moving goods in storage rooms, the DS3 ensures reliable, quiet, and energy-efficient performance across multiple industries.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Lead Acid/Li-ion
Battery nominal capacity K5		Ah	80/40
Battery voltage		V	24
Rated capacity	Q	kg	1500
Load centre distance	c	mm	600
Service weight		kg	540
Height, mast lowered	h ₁	mm	2067
Lift	h ₃	mm	2930
Height, mast extended	h ₄	mm	3532
Overall length	l ₁	mm	1727
Overall width	b ₁ /b ₂	mm	834
Length to face of forks	l ₂	mm	577
Fork dimensions	s/e/l	mm	75/170/1150
Turning radius	Wa	mm	1470
Manufacturer			EP
Model designation			DS3

Features

Compact and maneuverable design

The DS3’s short chassis length and 1470 mm turning radius allow easy operation in narrow aisles and tight warehouse spaces. This makes it ideal for facilities where every centimeter counts, without compromising lifting performance.

Reinforced mast for superior durability

An enhanced dual-chain mast design improves rigidity and ensures long-term reliability under continuous use. The iron mesh guard provides operator protection while maintaining clear visibility during stacking and retrieval.

Maintenance-free power and built-in charger

The DS3 is equipped with a 24 V/80 Ah AGM battery and a 24 V/10 A internal charger, allowing convenient on-board charging with no special equipment required. For more demanding applications, a Li-ion option is available for extended runtime.

Safe and ergonomic operation

The EP large tiller head with fingertip controls and a turtle-speed mode ensures precise control during slow maneuvers. The DS3 also features automatic speed reduction when the mast is elevated, enhancing safety and stability during high lifts

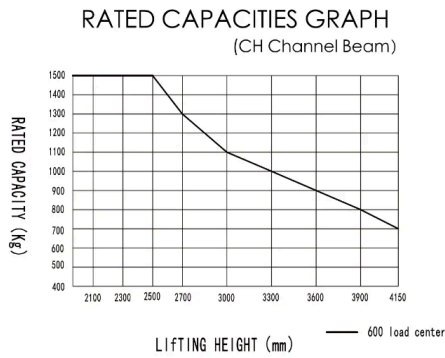
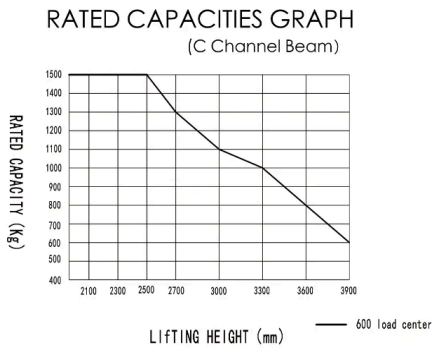
VDI Chart

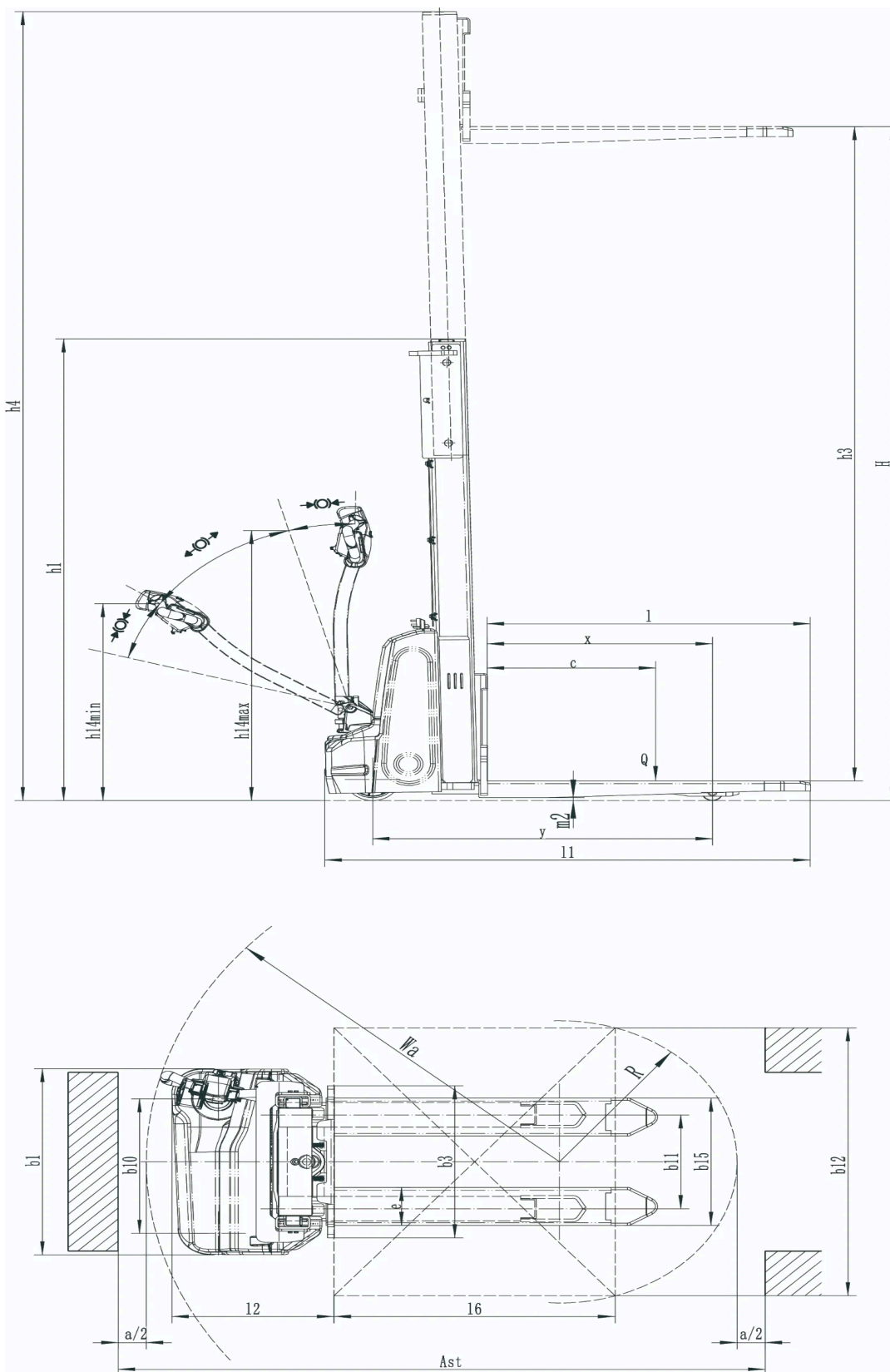
	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			DS3
1.3	Drive			Electric
1.4	Operator type			Pedestrian
1.5	Rated capacity	Q	kg	1500
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork	x	mm	802
1.9	Wheelbase	y	mm	1210
2.1	Service weight		kg	540

	SPECIFICATION	REF	UNIT	VALUE
2.2	Axle loading, laden front/rear		kg	645/1395
2.3	Axle loading, unladen front/rear		kg	395/145
3.1	Tyres			Polyurethane
3.2	Tyre size, front		mm	Ø190×55
3.3	Tyre size, rear		mm	Ø74×88
3.4	Additional wheels (castor wheels)		mm	Ø128×50
3.5	Wheels, number front/rear (x=drive wheels)			1x 1/2
3.6	Tread width, front	b ₁₀	mm	597
3.7	Tread width, rear	b ₁₁	mm	420
4.2	Height, mast lowered	h ₁	mm	2067
4.4	Lift	h ₃	mm	2930
4.5	Height, mast extended	h ₄	mm	3532
4.9	Height drawbar in driving position min./max.	h ₁₄	mm	760/1140
4.15	Height, lowered	h ₁₃	mm	92
4.16	Length of loading surface			1150
4.18	Width of loading surface			680
4.19	Overall length	l ₁	mm	1727
4.20	Length to face of forks	l ₂	mm	577
4.21	Overall width	b ₁ /b ₂	mm	834
4.22	Fork dimensions	s/e/l	mm	75/170/1150
4.24	Fork carriage width		mm	680
4.25	Distance between fork-arms	b ₅	mm	570
4.32	Ground clearance, centre of wheelbase	m ₂	mm	30
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2302
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2235
4.35	Turning radius	Wa	mm	1470
5.1	Travel speed, laden/unladen		km/h	4.0/4.5
5.2	Lift speed, laden/unladen		m/s	0.085/0.13
5.3	Lowering speed, laden/unladen		m/s	0.105/0.085
5.8	Max. gradeability, laden/unladen		%	3/10
5.10	Service brake			Electromagnetic
6.1	Drive motor rating S2 60 min		kW	0.75
6.2	Lift motor rating at S3 15%		kW	2.2
6.4	Battery nominal capacity K5		Ah	80/40

	SPECIFICATION	REF	UNIT	VALUE
6.4	Battery voltage		V	24
6.4.1	Battery type			Lead Acid/Li-ion
6.5	Battery weight		kg	38
8.1	Type of drive unit			DC
10.5	Steering design			Mechanical
10.7	Sound pressure level at the driver's seat		dB(A)	<74
15.1	Charger output current		A	10

VDI Drawing





Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)
2-Standard Mast	2518	1817	3032

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)
2-Standard Mast	2718	1917	3232
2-Standard Mast	3018	2067	3532
2-Standard Mast	3318	2217	3832
2-Standard Mast	3618	2367	4132
2-Standard Mast	3918	2517	4432
2-Standard Mast	4168	2556	4596

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	570*1150 685*1150 570*1000 685*1000 570*1220 685*1220
Fork lowered height	90
Fork carriage width option	680 795
Load wheel type	Single
Load wheel material	Polyurethane
Drive wheel material	Polyurethane
Battery capacity	80Ah (Lead-acid) 40Ah (Li-ion)
Charger	24V-10A integrated charger (Lead-acid) 24V-15A integrated charger (Li-ion)
Battery display indicator (BDI)	Without hourmeter
Handle head type	EP large tiller head (with finger controls including turtle button)
Castor wheels	Yes and not customized
Vertical handler working	Yes and not customized