



CHANGE YOUR MIND
NOT YOUR BATTERY

STACKER

BYD STACKER
(1200kg/1400kg/1600kg/2000kg)

 Lithium / BYD Iron-Phosphate

Core Technology

With many years of experience and innovation, BYD has the most reliable battery technology.

BYD started as a battery manufacturer, producing its first battery in 1997. Currently, BYD batteries are widely applied to passenger vehicles, cabs, buses, coaches, logistic vehicles, sanitation trucks and other commercial vehicles. In order to

accomplish that, we believe in technology innovation and rigorous production processes. BYD batteries have been road-proven in over 10 million new energy passenger cars and over 80,000 electric buses around the world.

We are constantly refining our manufacturing, pack design and interconnection hardware to further enhance the battery safety profile. Samples from each batch must pass rigorous impact, collision, vibration and external fire testing before being released for electric vehicle integration.



BYD Iron-Phosphate technology

BYD Iron-Phosphate electric forklift batteries are a major revolution for the industry. A solution for the present and future, synonymous with savings, sustainability, cleanliness, safety and care for the environment.



The BYD battery revolution

BYD has accumulated vast experience to predict and respond to global sustainability challenges. Currently, BYD's patented BYD Iron-Phosphate batteries have been used in over 100+ vehicle models, including passenger, commercial, and off-highway vehicles.

Compared to equivalent equipment powered by traditional lead acid batteries, BYD batteries require no maintenance, have a shorter charge time, a longer working life, and use up to 40% less energy. Combined with BYD's intelligent chargers, charging from empty to full can be achieved in under an hour, providing comfortably enough charge for a full eight-hour shift. Furthermore, BYD batteries can be topped-up during short breaks in operations, thus guaranteeing maximum uptime at the lowest-possible cost.

Unlike other Lithium-ion batteries featuring on competitors' forklifts, BYD designs, develops and manufactures its own batteries and chargers, meaning the entire energy ecosystem is optimised to offer maximum performance for your investment.

BYD Iron-Phosphate Battery



Savings

No battery changes, no maintenance, no distilled water or charger room, and with an energy consumption which is well below average.



Sustainable

No pollution from heavy metals or corrosive acid, making BYD Iron-Phosphate batteries the most ecologically friendly on the market.



Safety

No risk of explosion or fire, no flammable gases emissions, nor harm to the health of your employees.



Opportunity Charging

Battery can be partially topped up frequently e.g. during lunch break with no detriment to battery life or capacity.



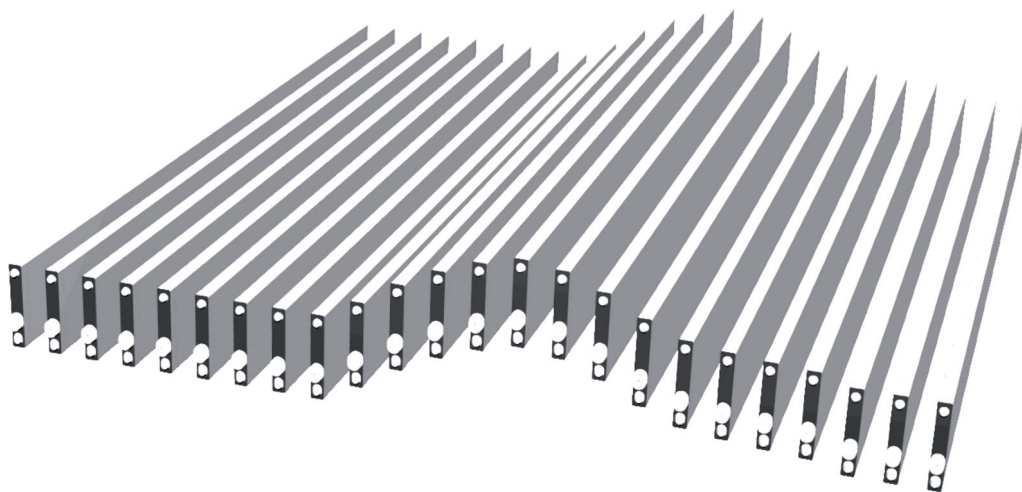
Long life

Unrivalled industrial leading warranty 8 year /10000 hours thanks to active battery intelligent protection system.



Fast-Charging

Charging power up to 2.4 kw , with possibility to reduce charging time down to 1 hour .



PEDESTRIAN STACKER
LiS12/14/16/20

STAND-ON STACKER
LiS12i/14i/16i/20i

DOUBLE PALLET PEDESTRIAN STACKER
LiS12P/14P/16P/20P

DOUBLE PALLET STAND-ON STACKER
LiS12Pi/14Pi/16Pi/20Pi



Family-oriented design

- Using the full range of platform design, we can provide customers with variety of product needs. The load capacity covers 1.2T, 1.4T, 1.6T, and 2.0T. At the same time, we can provide a maximum of 5600 lifting height mast. with the variety of combinations, we can provide efficient service.

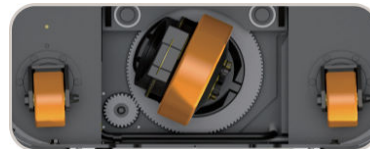
Operating friendly :

- Thanks to the development of the new platform, the turning radius of the product is smaller, the minimum Wa is only 1509 mm , making operation more user-friendly and easy.
- The proportional control system is applied for lift and download function ,which provide smooth and safe operation.



5 points suspension chassis:

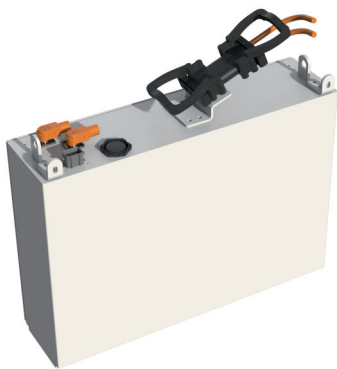
- The whole series of products has 5 wheels including 2 symmetrical balance wheels. An active suspension damping system was also equipped. It provides a smooth, safe and friendly operation experience.



Dual lift stacker:

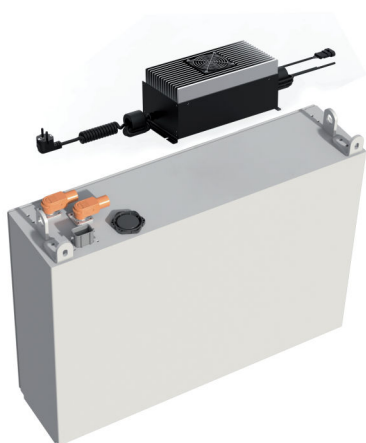
- At the same time , we also developed the full dual lift stacker range, they mainly used for short-distance handling and stacking in warehouses. Compared with stand stackers, it has extra supporting wheel lift (similar to pallet truck), which greatly improves the ground clearance . and it can easily pass on uneven ground, thresholds and low ramps. the double lift stacker truck can handle two pallets at the same time, too. which will greatly improve the handling efficiency.

ADVANTAGES OF BLADE BATTERY



Adaptability

- 60 °C Discharge capacity retention >99%
PACK-20 °C Discharge capacity retention>90%
Battery PACK with heating function ,makes the professional solution possibility for cold store .



Cyclability & Safety

- 45 °C cycle >2000 times
room temperature cycle >4000 times
long warranty with cell -penetration and IP67 protection.

Various optial

- 65/130/216/260Ah, varies of capacity matches different work condition request.
216/260Ah, optional 200A high power charger equipped with standard on-board charger.
Note:130Ah and 260Ah will be avaiabe in May.

LiS12 /LiS14/LiS16/LiS20 Pedestrian stacker

Identification	1.1	Manufacturer		BYD			
	1.2	Model		LiS12	LiS14	LiS16	LiS20
	1.3	Drive		Electric			
	1.4	Operator type		Pedestrain			
	1.5	"Rated capacity"	Q (kg)	1200	1400	1600	2000
	1.6	Load center	c (mm)	600			
	1.8	Front overhang	x (mm)	666		727	
	1.9	Wheel base	y (mm)	1260		1336	
Weights	2.1	Net weight including battery	kg	980	1050	1110	1190
	2.2	Axle load with load, front/rear	kg	725/1455	790/1660	919/1791	1025/2165
	2.3	Axle load without load, front/rear	kg	662/318	717/333	766/344	835/355
Wheels	3.1	Wheel type		PU			
	3.2	Wheel size, front	mm	Φ230×75			
	3.3	Wheel size, rear	mm	4xΦ85×85			
	3.4	Auxiliary wheel size	mm	Φ140×54			
	3.5	Wheels, number front/rear (x=driven)		1X+1/4			
	3.6	Track width, front	b10 (mm)	518			
	3.7	Track width, rear	b11 (mm)	400/500			
Basic Dimensions	4.2	Mast height (lowered)	h1 (mm)	1979		1984	
	4.3	Free lift	h2 (mm)	50		50	
	4.4	Lift height	h3 (mm)	2800		2700	
	4.5	Extended mast height	h4 (mm)	3412		3220	
	4.9	Height of support arms, Min./Max.	h14 (mm)	840/1255			
	4.15	Ground clearance, below fork	h13 (mm)	90			
	4.19	Overall length	l1 (mm)	1940		1954	
	4.2	Length to face of forks	l2 (mm)	790		804	
	4.21	Overall width	b1/b2 (mm)	800			
	4.22	Fork dimensions	s/e/l (mm)	60/190/1150			
	4.25	Width across forks	b5 (mm)	570/670			
	4.32	Ground clearance, center of wheelbase	m2 (mm)	28		26	23
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast (mm)	2393		2439	
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast (mm)	2371		2400	
	4.35	Turning radius	Wa (mm)	1509		1580	
Performance Data	5.1	Travel speed, with/without load	km/h	6/6			
	5.1.1	Travel speed, with/without load, backward	km/h	6/6			
	5.2	Lifting speed, with/without load	mm/s	180/250	160/250	160/250	140/250
	5.3	Lowering speed, with/without load	mm/s	320/290		360/250	
	5.8	Max. gradeability, with/without load	%	8/15	8/15	7/15	5/15
	5.10	Service brake		Mechanic			
Motor	6.1	Drive motor, S2=60min	kw	1.5		1.6	
	6.2	Lift motor	kw	3		3.2	
	6.4	Battery capacity, K5	V/Ah	24/210			
	6.5	Battery weight	kg	85			
Others	8.1	Type of drive control		AC			
	10.7	Noise level at operator's ear	dB(A)	≤75			

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LiS12-i/14-i/16-i/20-i Double pallet pedestrian stacker

Identification	1.1	Manufacturer			BYD			
	1.2	Model			LiS12-i	LiS14-i	LiS16-i	LiS20-i
	1.3	Drive			Electric			
	1.4	Operator type			Pedestrian			
	1.5	"Rated capacity"	Q	kg	1200	1400	1600	2000
	1.6	Load center	c	mm	600			
	1.8	Front overhang(Lifted/lowered)	x	mm	919/978		905/964	
	1.9	Wheel base(Lifted/lowered)	y	mm	1571/1630			
Weights	2.1	Net weight including battery		kg	1194	1241	1253	1300
	2.2	Axle load with load, front/rear		kg	1137/1257	1218/1423	1250/1603	1374/1926
	2.3	Axle load without load, front/rear		kg	858/335	894/347	893/360	928/372
Wheels	3.1	Wheel type			PU			
	3.2	Wheel size, front		mm	Φ230×75			
	3.3	Wheel size, rear		mm	4×Φ85×70			
	3.4	Auxiliary wheel size		mm	Φ140×54			
	3.5	Wheels, number front/rear (x=driven)			1X+2/4			
	3.6	Track width, front	b10	mm	518			
	3.7	Track width, rear	b11	mm	380/500			
Basic Dimensions	4.2	Mast height (lowered)	h1	mm	1984			1984
	4.3	Free lift	h2	mm	50			50
	4.4	Lift height	h3	mm	2800			2700
	4.5	Extended mast height	h4	mm	3420			3228
	4.6	Original lifting height	h5	mm	120			
	4.9	Height of support arms, Min./Max.	h14	mm	840/1255			
	4.15	Ground clearance, below fork	h13	mm	90			
	4.19	Overall length	l1	mm	1999		2012	
	4.2	Length to face of forks	l2	mm	849		862	
	4.21	Overall width	b1	mm	800			
	4.22	Fork dimensions	s/e/l	mm	60/190/1150			
	4.25	Width across forks	b5	mm	570/670			
	4.32	Ground clearance, center of wheelbase	m2	mm	22		20	20
	4.34.1	Aisle width for pallets 1000×1200 crossways(lifted/lowered)	Ast	mm	2615/2670			
	4.34.2	Aisle width for pallets 800×1200 lengthways(lifted/lowered)	Ast	mm	2505/2533			
Performance Data	4.35	Turning radius(lifted/lowered)	Wa	mm	1808/1852			
	5.1	Travel speed, with/without load		km/h	6/6			
	5.1.1	Travel speed, with/without load, backward		km/h	6/6			
	5.2	Lifting speed, with/without load		mm/s	180/250	160/250	160/250	140/250
	5.3	Lowering speed, with/without load		mm/s	320/290		360/250	
	5.8	Max. gradeability, with/without load		%	8/15	8/15	7/15	5/15
	Motor	5.10	Service brake			Mechanic		
6.1		Drive motor, S2=60min		kw	1.6			
6.2		Lift motor		kw	3.2			
6.4		Battery capacity, K5		V/Ah	24/210			
Others	6.5	Battery weight		kg	85			
	8.1	Type of drive control			AC			
	10.7	Noise level at operator's ear		dB(A)	≤ 75			

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LiS12P/14P/16P/20P Stand-on stacker

Identification	1.1	Manufacturer			BYD			
	1.2	Model			LiS12P	LiS14P	LiS16P	LiS20P
	1.3	Drive			Electric			
	1.4	Operator type			Stand-on			
	1.5	"Rated capacity"	Q	kg	1200	1400	1600	2000
	1.6	Load center	c	mm	600			
	1.8	Front overhang	x	mm	667		723	
	1.9	Wheel base	y	mm	1260		1336	
Weights	2.1	Net weight including battery		kg	1115	1185	1235	1350
	2.2	Axle load with load, front/rear		kg	853/1462	919/1666	1042/1793	1176/2174
	2.3	Axle load without load, front/rear		kg	789/326	844/341	895/340	992/358
Wheels	3.1	Wheel type			PU			
	3.2	Wheel size, front		mm	Φ230×75			
	3.3	Wheel size, rear		mm	4×Φ85×70(standard) / 2×Φ85×105(optional) 4×Φ85×70			
	3.4	Auxiliary wheel size		mm	2×Φ115×55			
	3.5	Wheels, number front/rear (x=driven)			1x+2/4 (1x+2/2)		1x+2/4	
	3.6	Track width, front	b10	mm	585			
	3.7	Track width, rear	b11	mm	400/500			
Basic Dimensions	4.2	Mast height (lowered)	h1	mm	1980			
	4.3	Free lift	h2	mm	50			
	4.4	Lift height	h3	mm	2900			
	4.5	Extended mast height	h4	mm	3417			
	4.9	Height of support arms,Min./Max.	h14	mm	1040/1330			
	4.15	Ground clearance, below fork	h13	mm	90			
	4.19	Overall length	l1	mm	1984		2005	
	4.2	Length to face of forks	l2	mm	834		855	
	4.21	Overall width	b1/b2	mm	800			
	4.22	Fork dimensions	s/e/l	mm	60/ 190 /1150			
	4.25	Width across forks	b5	mm	570/670			
	4.32	Ground clearance, center of wheelbase	m2	mm	30		25	20
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2406		2456	
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	2386		2418	
	4.35	Turning radius	Wa	mm	1520		1595	
Performance Data	5.1	Travel speed, with/without load		km/h	9/11			8/10
	5.1.1	Travel speed, with /without load, backward		km/h	9/11			8/10
	5.2	Lifting speed, with/without load		mm/s	200/300	160/250	150/250	110/250
	5.3	Lowering speed, with/without load		mm/s	300/250	320/290	340/290	360/290
	5.8	Max. gradeability, with/without load		%		8/16		6/16
	5.10	Service brake			Mechanic			
Motor	6.1	Drive motor, S2=60min		kw	1.9		2.8	
	6.2	Lift motor		kw	3.2			
	6.4	Battery capacity, K5		V/Ah	24/210			
	6.5	Battery weight		kg	85			
Others	8.1	Type of drive control			AC			
	10.7	Noise level at operator's ear		dB(A)	≤ 75			

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Lis12Pi/14Pi/16Pi/20Pi Double pallet Stand-on stacker

Identification	1.1	Manufacturer			BYD			
	1.2	Model			LiS12Pi	LiS14Pi	LiS16Pi	LiS20Pi
	1.3	Drive			Electric			
	1.4	Operator type			Stand-on			
	1.5	Rated capacity	Q	kg	1200	1400	1600	2000
	1.6	Load center	c	mm	600			
	1.8	Front overhang(Lifted/lowered)	x	mm	919/978		905/964	
	1.9	Wheel base(Lifted/lowered)	y	mm	1571/1630			
Weights	2.1	Net weight including battery		kg	1260	1310	1330	1380
	2.2	Axle load with load, front/rear		kg	1213/1247	1295/1415	1333/1597	1459/1921
	2.3	Axle load without load, front/rear		kg	935/325	971/339	975/355	1012/368
Wheels	3.1	Wheel type			PU			
	3.2	Wheel size, front		mm	Φ230×75			
	3.3	Wheel size, rear		mm	4×Φ85×70			
	3.4	Auxiliary wheel size		mm	2×Φ115×55			
	3.5	Wheels, number front/rear (x=driven)			1x+2/4			
	3.6	Track width, front	b10	mm	585			
	3.7	Track width, rear	b11	mm	380/480			
Basic Dimensions	4.2	Mast height (lowered)	h1	mm	1984			
	4.3	Free lift	h2	mm	50			
	4.4	Lift height	h3	mm	2900			
	4.5	Extended mast height	h4	mm	3420			
	4.6	Original lifting height	h5	mm	120			
	4.9	Height of support arms, Min./Max.	h14	mm	1040/1330			
	4.15	Ground clearance, below fork	h13	mm	90			
	4.19	Overall length(pedal folded/down)	l1	mm	2054//2513		2065/2525	
	4.2	Length to face of forks(without pedal)	l2	mm	904		915	
	4.21	Overall width	b1	mm	800			
	4.22	Fork dimensions	s/e/l	mm	60/90/1150			
	4.25	Width across forks	b5	mm	570/670			
	4.32	Ground clearance, center of wheelbase	m2	mm	20			
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2633/2686		2635/2687	
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	2517/2543		2525/2550	
Performance Data	4.35	Turning radius(lifted/lowered)	Wa	mm	1828/1886			
	5.1	Travel speed, with/without load		km/h	9/11		8/10	
	5.1.1	Travel speed, with/without load, backward		km/h	9/11		8/10	
	5.2	Lifting speed, with/without load		mm/s	180/250	160/250	130/250	110/250
	5.3	Lowering speed, with/without load		mm/s	300/290	320/290	340/290	360/250
	5.8	Max. gradeability, with/without load		%		8/16		6/16
Motor	5.10	Service brake			Mechanic			
	6.1	Drive motor, S2=60min		kw	2.8			
	6.2	Lift motor		kw	3.2			
	6.4	Battery capacity, K5		V/Ah	24/210			
Others	6.5	Battery weight		kg	85			
	8.1	Type of drive control			AC			
	10.7	Noise level at operator's ear		dB(A)	≤75			

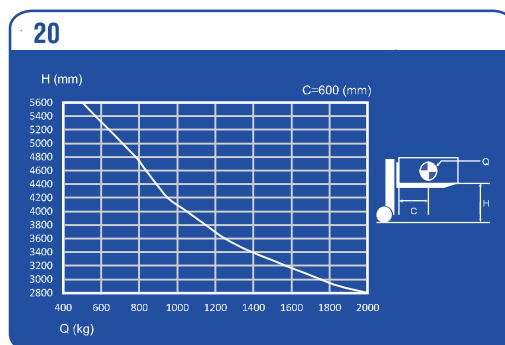
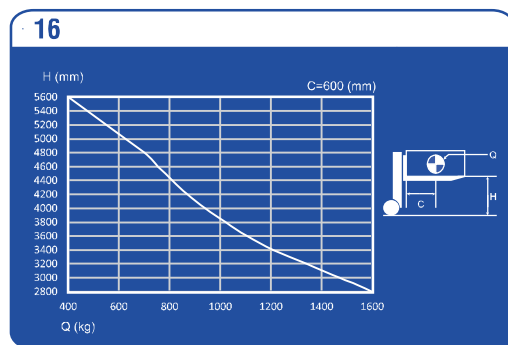
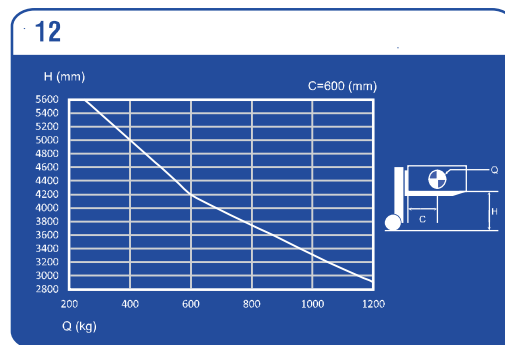
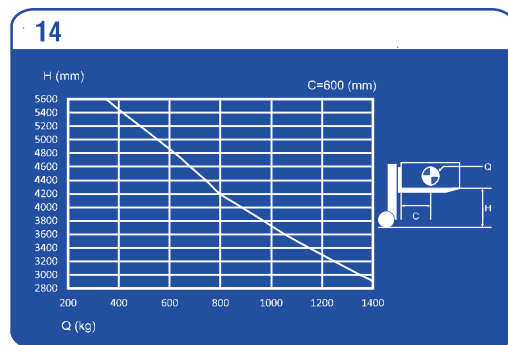
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STACKER MAST TABLE

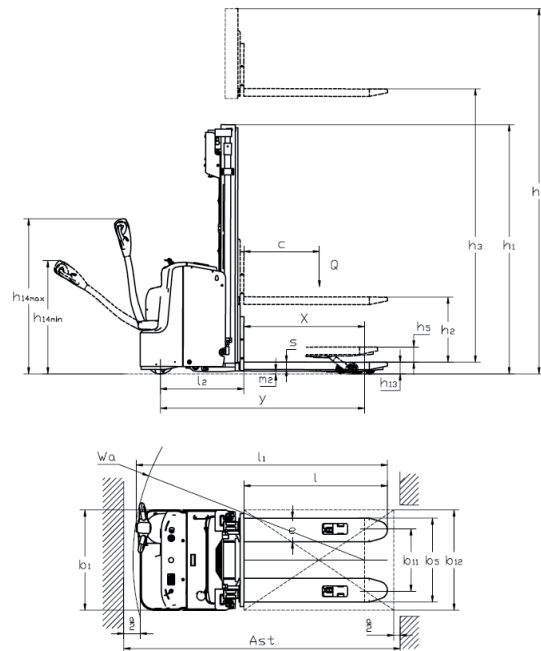
- h3** Lifting Height (mm) **h2** Full Free Lift Height (mm) (Load Backrest 800mm)/without. **h1** Height, Mast Fully Lowered (mm)
h4 Height, Mast Fully Extended (mm) (Load Backrest 800mm)/without

Mast spec	h3	h1	h4		h2		m1
	mm	mm	mm	mm	mm	mm	mm
2-stage Standard Mast	2000	1533.5	2860	2520	140	140	78.5
	2500	1783.5	3360	3020	140	140	78.5
	2700	1983.5	3560	3220	140	140	78.5
	3200	2133.5	4060	3720	140	140	78.5
	3600	2383.5	4460	4120	140	140	78.5
	4000	2583.5	4860	4520	140	140	78.5
3-stage FFL Mast	4000	1858.5	4890	4550	1058.5	1300	78.5
	4300	1958.5	5190	4850	1158.5	1400	78.5
	4500	2058.5	5390	5050	1258.5	1400	78.5
	4800	2158.5	5690	5350	1358.5	1500	78.5
	5000	2258.5	5890	5550	1458.5	1600	78.5
	5400	2358.5	6290	5950	1558.5	1800	78.5
	5600	2458.5	6490	6150	1658.5	1800	78.5

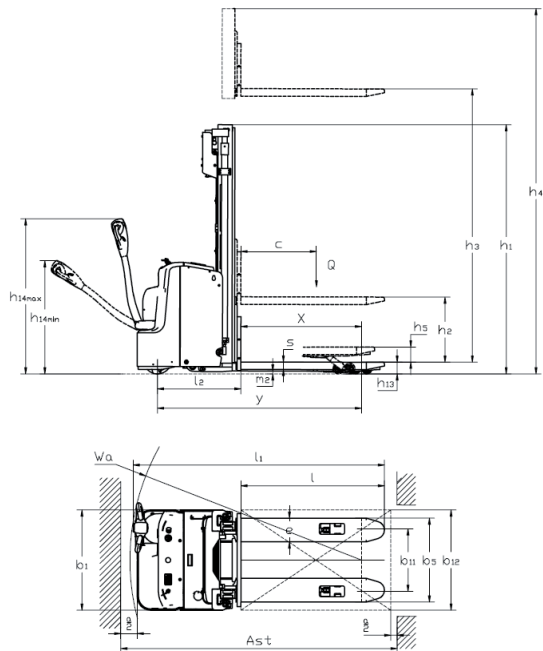
LOAD CAPACITY



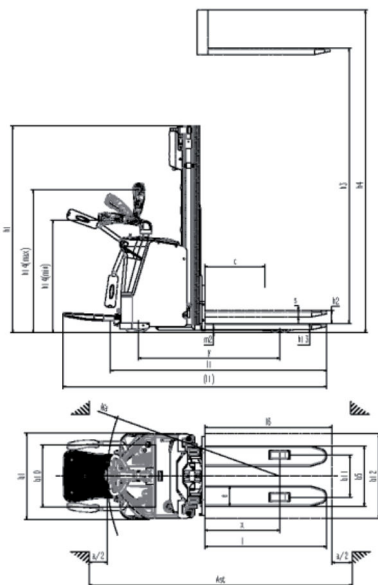
Pedestrian stacker
LiS12 /LiS14/LiS16/LiS20



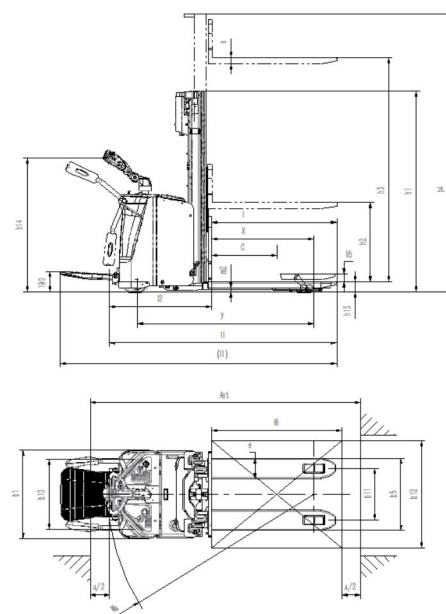
Double pallet pedestrian stacker
LiS12-i/14-i/16-i/20-i



Stand-on stacker
LiS12P/14P/16P/20P



Double pallet Stand-on stacker
LiS12Pi/14Pi/16Pi/20Pi





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BYD forklifts conform to the European Safety Requirements

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