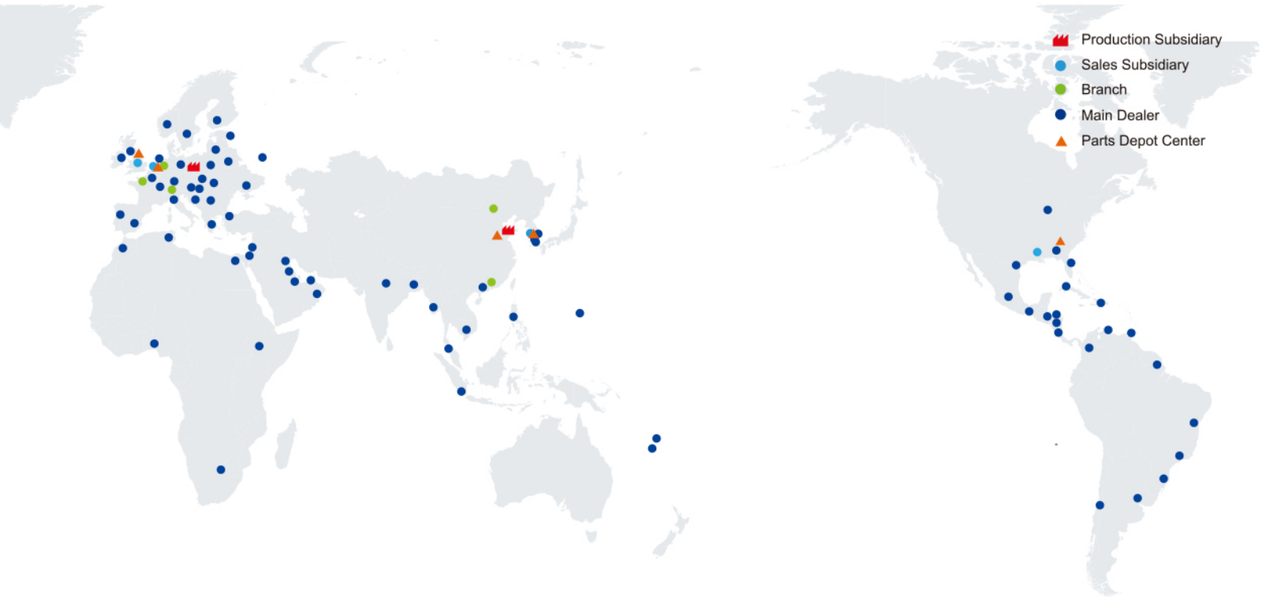


0CT 2016

AUTHORIZED DEALER

Doosan Corporation Industrial Vehicle
Web site : www.doosan-iv.com

www.doosan-iv.com

Doosan Warehouse Equipment

Electric Pallet Truck BWE20S-7, BPPE20S-7

Electric Stacker BWSE15S-7, BPSE15S-7

Tow Tractor BTT20/30/50/60S-7

Lifting Your Dreams

About Doosan

Values that drive our future growth

The Doosan Way is a unique set of corporate values and philosophy that has guided our growth. It is a systematic management philosophy for sustaining Doosan and raising our future competitive edge. The Doosan Way consists of two key parts: the Doosan Credo and a distinctive business system.

The Doosan Credo
A resolute vision, the Doosan Credo unifies our employees worldwide, providing the direction in which we march together towards the future. Our shared aspiration is to be a global leader that provides world-class products and services that employees, customers, shareholders, and other stakeholders can trust and take pride in. The Doosan Credo places the highest importance on people, integrity, innovation, and delivering value to our customers and partners.

The Efficient Business System
Our core business system is comprised of human resources, strategy execution, and financial management. Through this system, we implement our "2G Strategy" a manifestation of our conviction that our business can only grow through the growth of our people. It binds and systematizes our strategy with our people, multiplying business results. The Doosan business system supports the performance-oriented culture of Doosan and paves the way for continuous growth and development.

The Cultivation of Globally-Competent Personnel
We established a "People Infrastructure" to recruit, retain, and train highly qualified people. In support of this effort, we operate the Doosan Leadership Institute (DLI), a world-class human resources development center. Here, globally-competent personnel are being cultivated through cutting-edge training and education programs that employ the latest learning methods, case studies, simulations, and a combination of online/offline learning.

Doosan Industrial Vehicle

Major global player in the infrastructure support business with a proud heritage

With a proud history dating back to 1937, when we first started out as Chosun Machinery, Doosan Industrial Vehicle has grown into Korea's largest machinery manufacturer, playing a leading role in the development of the industry in Korea.

Today, we are a global enterprise. We operate large-scale plants and sales subsidiaries both at home and overseas and maintain an operational network that spans continents.

Committed To Innovation
We remain committed to the advancement of new technologies and development of talented individuals, positioning us to respond effectively to the rapid changes taking place in the 21st century. Our mission is to strengthen our global position and become the industry leader well into the future.

Committed To Our Customers
We are committed to our customers, providing superior products and excellent services to go with them.

Our Promise
Doosan Industrial Vehicles will be the partner you can count on, always putting our commitment to you first.

Award-Winning Machines
Doosan currently holds a number of export, design & safety awards, including four Forklift Truck Association awards for Design Excellence.

Economy, First Class

Doosan's Warehouse Equipments can move and store products in your warehouse without a large investment.
Our simple design allows for maneuverability, clear visibility, ease of use, reduced errors and consequential damage.

LINE UP

BWE20S-7
Walkie Pallet Truck
- Capacity: 2t

BPPE20S-7
Platform Pallet Truck
- Capacity : 2t

BWSE15S-7
Electric Walkie Stacker
- Capacity : 1.5t
- Lift Height : 2500-5600mm

BPSE15S-7
Electric Platform Stacker
- Capacity : 1.5t
- Lift Height :2500-5600mm

BTT20/30/50/60-7
Tow Tractor
- Capacity : 2/3/5/6t

Customer minded design

Technology That Works

Curtis solid state controllers provide smooth acceleration and seamless directional control. Its Regenerative Braking feature adds energy back to the battery to improve efficiency.

Power and Performance

The benefit of AC drive motor is you're provided faster acceleration, more fatigue, higher efficiency and lower maintenance cost due to the brush-less design.

Easy Maintenance Check

All Doosan Warehouse Equipments come standard with an Hour Meter/Battery Discharge Indicator to keep track of hours and reserve battery power at a glance.

Operator Friendly

A convenient storage compartment is included on our Electric Pallet Truck and Stacker to hold those items that the operator needs to get the job done.

BWSE15S-7 BPPE20S-7

GET MORE FOR YOUR MONEY

Walkie Pallet Truck BWE

Low Speed / Brake Override Switch

Allows creep speed operation with handle in the upright position. Increases ability to maneuver in tight spaces.

Ergonomic Handle

Reduces operator's fatigue.

Dual Lift Cylinders

Increases stability by lifting loads smoothly and evenly.

Hour Meter / BDI

Keeps track of hours used and reserves battery power at a glance.

CAN Bus Technology

This reduces the number of electrical connections and potential for problems making the system less complicated and more reliable.

Poly Drive Tire

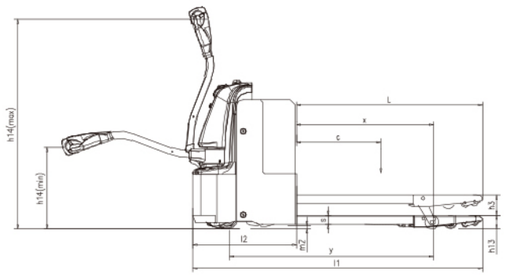
Provides longer tire life and has lower energy consumption versus a rubber tire.

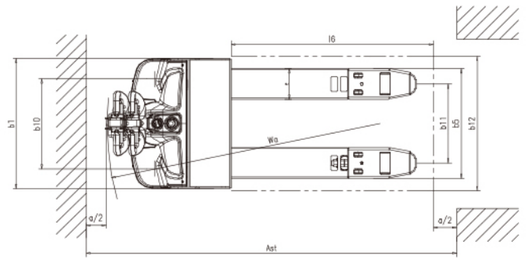
One-piece High Tensile Steel Forks

Are formed into a C-channel and reinforced in critical areas.

Pallet Entry Rollers

Eases pallet entry and exit.





Specification

	Characteristics			
1	Doosan name			BWE20S-7
2	Drive type			electric
3	Operation type			walkie
4	Load capacity		kg	2000
5	Load center distance	c	mm	600
6	Wheelbase	y	mm	1211/1261/1331
	Chassis			
7	Tyres			polyurethane
8	Wheels,number front rear(x = driven wheels)			1X+2/2
	Dimensions			
9	Max.lift height	h3	mm	200
10	Height of tiller in drive position min./max.	h14	mm	780/1230
11	Overall length	l1	mm	1655/1705/1775
12	Length to face of forks	l2	mm	555
13	Overall width	b1	mm	775
14	Fork dimensions	s/e/l	mm	53X180X1100(1150/1220)
15	Width overall forks	b5	mm	520/550/650/685
16	Ground clearance,centre of wheelbase	m2	mm	28
17	Aisle width for pallets 1000×1200 crossways	Ast	mm	2015/2065/2135
18	Aisle width for pallets 800×1200 crossways	Ast	mm	2115/2115/2135
	Performance			
19	Turning radius	Wa	mm	1400/1450/1520
20	Travel speed,laden/unladen		km/h	5.5/5.6
21	Lift speed,laden/unladen		m/s	0.039/0.056
22	Lowering speed,laden/unladen		m/s	0.064/0.050
23	Gradeability, laden/unladen		%	6/12
24	Service brake			Electro magnetic
25	Battery voltagem,nominal capacity K5		V/Ah	24/210
26	Drive motor rated output		kW	1.2
27	Battery department size		mm	750x170x534

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GET MORE FOR YOUR MONEY

Platform Pallet Truck BPPE

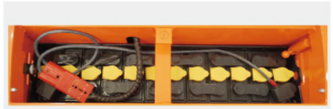
Ergonomic Handle

Reduces operator's fatigue.

Hour Meter / BDI

Keeps track of hours used and reserves battery power at a glance.

Industry Battery and Locker



Foldable Platform with Speed Sensor

Aids productivity in long distance applications without compromising maneuverability.

Pallet Entry Rollers

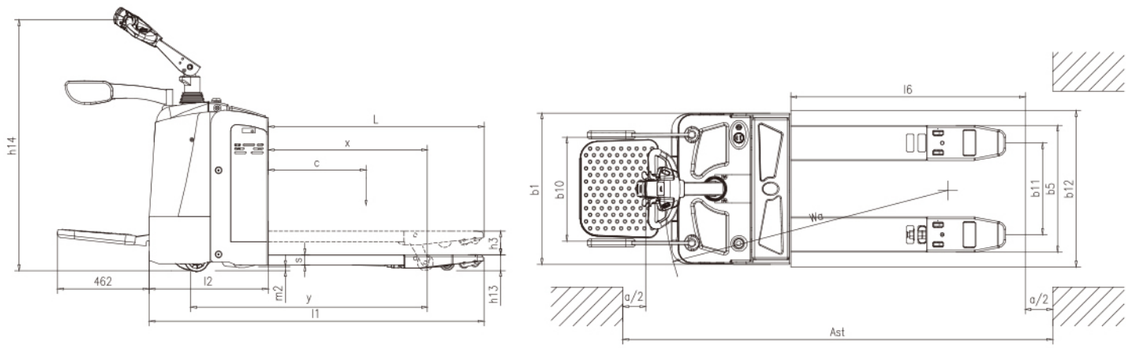
Eases pallet entry and exit.

Poly Drive Tire

Provides longer tire life and has lower energy consumption versus a rubber tire.

One-piece High Tensile Steel Forks

Are formed into a C-channel and reinforced in critical areas.



Specification

	Characteristics			
1	Doosan name			BPPE20S-7
2	Drive type			electric
3	Operation type			standing
4	Load capacity		kg	2000
5	Load centre distance	c	mm	600
6	Wheelbase	y	mm	1211/1261/1331
	Chassis			
7	Tyres			polyurethane
8	Wheels,number front rear(x = driven wheels)			1X+2/2
	Dimensions			
9	Max. lift height	h_3	mm	200
10	Height of tiller in drive position min./max.	h_{14}	mm	1150/1430
11	Overall length	l_1	mm	1710/1760/1830
12	Overall width	b_1	mm	775
13	Fork dimensions	s/e/l	mm	53X180X1100(1150/1220)
14	Width overall forks	b_5	mm	520/550/650/685
15	Aisle width for pallets 1000×1200(1200crossways)	Ast	mm	1910/1960/2030
16	Aisle width for pallets 800×1200(1200lengthways)	Ast	mm	2010/2010/2030
	Performance			
17	Turning radius	Wa	mm	1550/1600/1670
18	Travel speed,laden/unladen		km/h	7/7.1
19	Lift speed,laden/unladen		mm/s	0.039/0.056
20	Lowering speed,laden/unladen		mm/s	0.064/0.050
21	Max.gradeability,laden/unladen		%	8/20
22	Service brake			Electro magnetic
23	Battery voltage/nominal capacity		v/Ah	24/210
24	Drive motor rated output		kW	1.2
25	Battery department size		mm	750x170x534

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GET MORE FOR YOUR MONEY

Walkie Stacker BWSE

Hour Meter / BDI

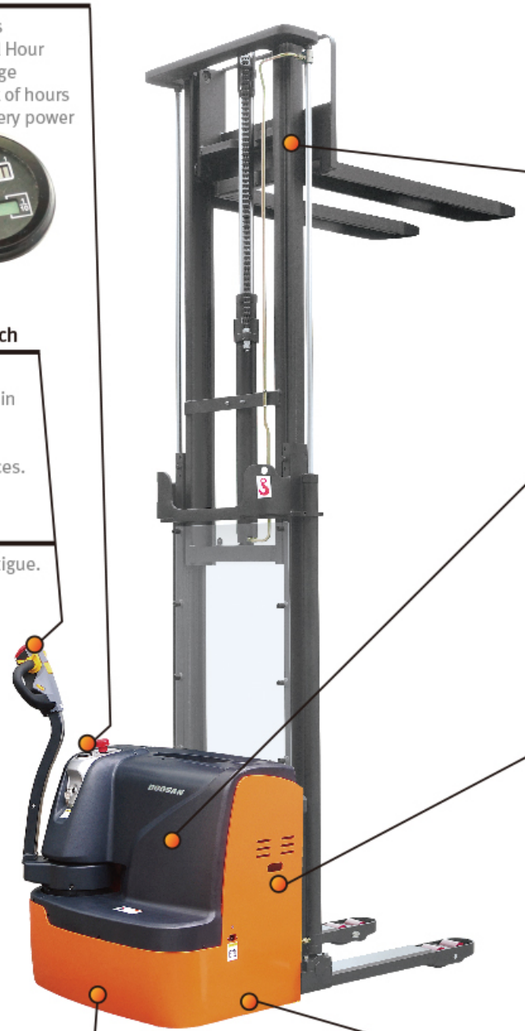
Doosan Stacker comes standard with a digital Hour Meter/Battery Discharge Indicator to keep track of hours used and reserve battery power at a glance.

Low Speed / Brake Override Switch

Allows creep speed operation with handle in the upright position. Increases ability to maneuver in tight spaces.

Ergonomic Handle

Reduces operator's fatigue.



Six Mast Heights

2500mm, 3000mm, 3300mm, 4500mm, 5000mm, 5600mm, Versatility to meet your application.

CAN Bus Technology

This reduces the number of electrical connections and potential for problems making the system less complicated and more reliable.

Roll Out Battery Tray

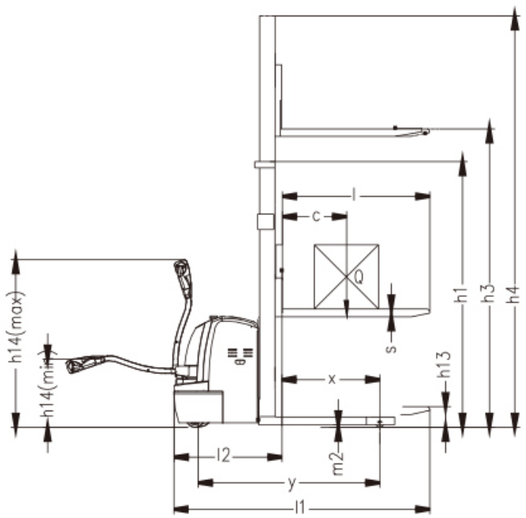
Allows for easy maintenance, removal and replacement.

Poly Drive Tire

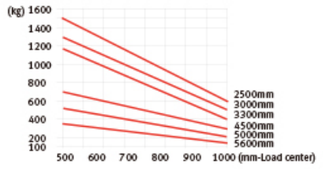
Provides longer tire life and has lower energy consumption versus a rubber tire.

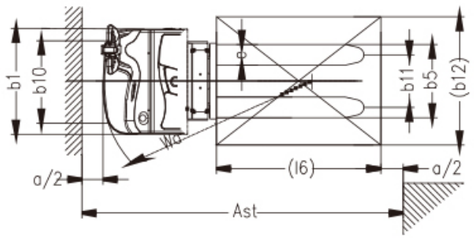
Adjustable Spring Loaded Caster

Stabilizes electric stacker with loads at height.



[Load Capacity Chart]





Specification

	Characteristics				
1	Doosan Name			BWSE15S-7	
2	Drive type			Electric	Electric
3	Operation type			pedestrian	pedestrian
4	Load capacity		kg	1500	1500
5	Load centre distance		mm	600	600
6	Wheelbase	y	mm	1410	1383
7	Load distance, centre of drive axle to fork	x	mm	697	697
8	Fork height,lowered	h13	mm	90	90
	Chassis				
9	Tyres			polyurethane	polyurethane
10	Tyre size,front			φ250×70	φ250×70
11	Tyre size rear			φ80×70	φ80×84
12	Additional wheels(dimensions)			φ150×60	φ150×60
	Dimensions				
13	Height,mast lowered	h1	mm	1837/2087/2237	2050/2210/2410
14	Max.lift height	h3	mm	2500/3000/3300	4500/5000/5600
15	Height,mast extended	h4	mm	3087/3587/3887	5077/5550/6150
16	Height of tiller in drive position min./max.	h14	mm	670/1330	670/1330
17	Overall length	l1	mm	2045	1950
18	Overall width	b1	mm	820	820
19	Fork dimensions	s/e/l	mm	60/170/1070(1150)	60/180/1070(1150)
20	Width overall forks	b5	mm	580/695	570/695
21	Aisle width for pallets 1000×1200 crossways	Ast	mm	2480	2450
22	Aisle width for pallets 800×1200 lengthways	Ast	mm	2450	2420
	Performance				
23	Turning radius	Wa	mm	1605	1575
24	Travel speed,laden /unladen		Kw/h	5.8/6	5.8/6
25	Lift speed,laden /unladen		m/s	0.06/0.13	0.11/0.15
26	Lowering speed,laden/unladen		m/s	0.13/0.10	0.15/0.13
27	Service brake			Electromagnetic	Electromagnetic
28	Drive motor rated output		kW	1.2	1.2
29	Battery voltage,nominal capacity K5		V/Ah	24/200	24/240
30	Battery weight		kg	200	240/300
31	Battery department size		mm	800x254x320	625x254x500

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GET MORE FOR YOUR MONEY

Platform Stacker BPSE

Six Mast Heights

2500mm, 3000mm, 3300mm, 4500mm, 5000mm, 5600mm, Versatility to meet your application.

Hour Meter / BDI

Doosan Stacker comes standard with a digital Hour Meter /Battery Discharge Indicator to keep track of hours used and reserve battery power at a glance.

Low Speed / Brake Override Switch

Allows creep speed operation with handle in the upright position. Increases ability to maneuver in tight spaces.

Ergonomic Handle

Reduces operator's fatigue.

Foldable Platform

Allows long distance driving without fatigue on foot.

Initial Lifting with Double Pallet

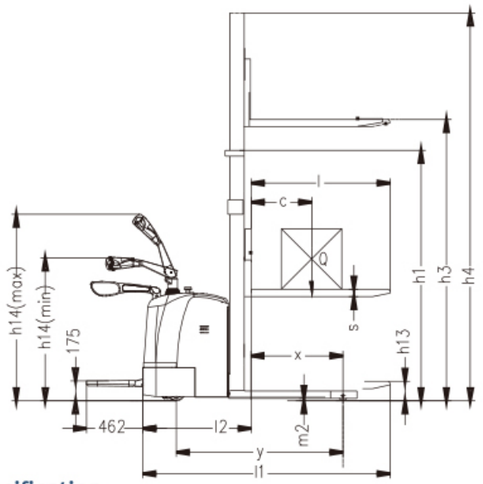
Maximize operation efficiency with double pallet handling.

Roll Out Battery Tray

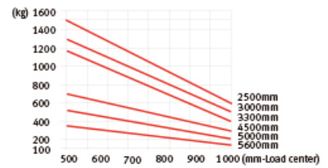
Allows for easy maintenance, removal and replacement.

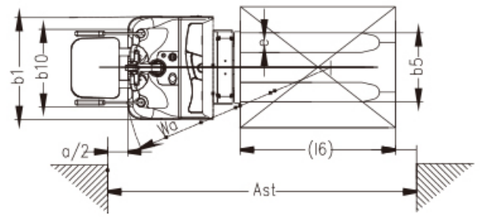
Poly Drive Tire

Provides longer tire life and has lower energy consumption versus a rubber tire.



[Load Capacity Chart]





Specification

	Characteristics				
1	Doosan Name			BPSE15S-7	
2	Drive type			Electric	Electric
3	Operator type			Standing	Standing
4	Load capacity/rated load		kg	1500	1500
5	Load centre distance	c	mm	600	600
6	Wheelbase	y	mm	1405	1378
7	Fork height,lowered	h13	mm	90	90
8	Axle loading,laden front/rear		kg	1280/1070	1440/1280
9	Axle loading,unladen front/rear		kg	200/650	870/350
	Chassis				
10	Tyres			polyurethane	polyurethane
11	Tyre size,front		mm	φ 250×70	φ 250×70
12	Tyre size rear		mm	φ 80×70	φ 80×84
13	Additional wheels(dimensions)		mm	φ 150×60	φ 150×60
14	Wheels,number front rear(x=driven wheels)			1x+2/2	1x+2/4
15	Tread,front	b10	mm	586	580
16	Tread,rear	b11	mm	410/525	404/530
	Dimensions				
17	Height,mast lowered	h1	mm	1837/2087/2237	2050/2210/2410
18	Free lift	h2	mm	~	1570/1740/1940
19	Max. Lift height	h3	mm	**2500/3000/3300**	**4500/5000/5600**
20	Height,mast extended	h4	mm	3087/3587/3887	5070/5550/6150
21	Initial lift	h14	mm	1150/1450	1150/1450
22	Overall length	l1	mm	2025	2020/2100
23	Length to face of forks	l2	mm	920	950
24	Overall width	b1	mm	850	850
25	Fork dimensions	s/e/l	mm	60/170/1070(1150)	60/180/1070(1150)
26	Width overall forks	b5	mm	580/695	570/695
27	Ground clearance,centre of wheelbase	m2	mm	28	31
28	Aisle width for pallets 1000×1200 crossways	Ast	mm	2550	2535
29	Aisle width for pallets 800×1200 lengthways	Ast	mm	2520	2515
	Performance				
30	Turning radius	Wa	mm	1655	1655
31	Travel speed, laden/unladen		Km/h	5.8/6	6.5/6.7
32	Lift speed, laden/unladen		m/s	0.06/0.13	0.11/0.14
33	Lowering speed, laden/ unladen		m/s	0.13/0.10	0.12/0.12
34	Gradeability, laden/ unladen		%	6/15	8/15
35	Service brake			Electromagnetic	Electromagnetic
36	Drive motor rated output		kW	1.2	1.2
37	Battery voltage, nominal capacity K5		V/Ah	24/200	24/300
38	Battery weight		kg	200	300
39	Battery compartment dimensions l/w/h		mm	800x254x320	675x254x540

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Tow Tractor BTT

Spinner Knob

For easier maneuverability in tight spaces.

Adjustable Steer Column

For operator comfort.

Hour Meter/ Discharge Indicator

Keeps operator informed of battery reserve capacity and maintenance intervals.

Full Light Package

- Head Lights and Tail Lights
- Directional Indicator for Safety and Visibility.

Back Cover

Easy to open for service

Large capacity batteries

Located in the lowest part of frame, offers low center of gravity.

Trailer 4wheels (Option)

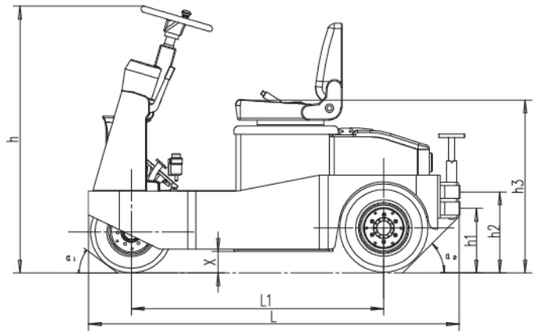
-3t Trailer, 6t Trailer

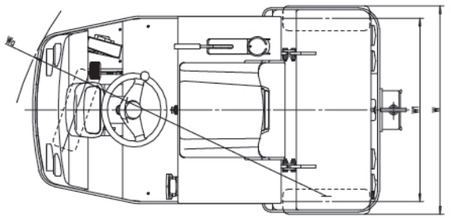
Seat Belt

For operator's safety.

Hand Park Brake / Foot Brake and Accelerator Pedal

Automotive style for familiarity.





Specification

	Characteristics					
1	Model			BTT20S-7	BTT30S-7	BTT50S-7	BTT60S-7
2	Rated traction weight		kg	2,000	3,000	5,000	6,000
3	Rated traction (60 minutes rated)		N/kg	500/50	750/75	1250/125	1500/150
4	Max. traction (5 minutes rated)		N/kg	2000/200	3000/300	5000/500	6000/600
	Weight						
5	Weight		kg	930	980	1160	1280
6	Axle loading - front/rear		kg	330/600	350/630	410/750	450/830
7	Battery weight		kg	350	400	530	610
	Chassis						
8	Wheelbase	L_1	mm	1170	1170	1280	1280
9	Rear hanging distance	L_2	mm	350	350	450	450
10	Tread - front/rear	W_2/W_1	mm	0/860	0/860	0/946	0/946
	Dimensions						
11	Seat height	h_3	mm	850	850	910	910
12	Overall height	h	mm	1250	1250	1250	1250
13	Overall length	L	mm	1720	1720	1940	1940
14	Overall width	W	mm	970	970	1100	1100
15	Drawbar center height	h_1/h_2	mm	280/350	280/350	280/350	280/350
16	Ground clearance	X	mm	100	100	100	100
	Performance						
17	Turning radius	Wa	mm	1519	1519	1650	1650
18	Travel speed - laden/unladen		km/h	8/13	7/13	8/14	7/14
19	Brake			Mechanical, Hydraulic			
20	Battery voltage		V/Ah	48/240	48/270	48/360	48/400
21	Travel control			Microcomputer mostefet			
22	Battery compartment size		mm	848 x 428 x 600		948 x 540 x 656	

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