

### **CDD15-WS Electric Pedestrian Stacker**

Lifting height: 2000-3500 mm / Load capacity: 1500 kg











# Variable Speed Control on Lifting & Lowering

Comfortable and efficient thanks to Hangcha patented intelligent handle and control system, ideal for replacing manual & semi-electric stackers, for light use in narrow warehouse environments with efficient and easy pallet stacking.

The proportional lowering brings high efficiency for exact pallet placement and more precise control when compared to the normal fixed speed of lifting & lowering.

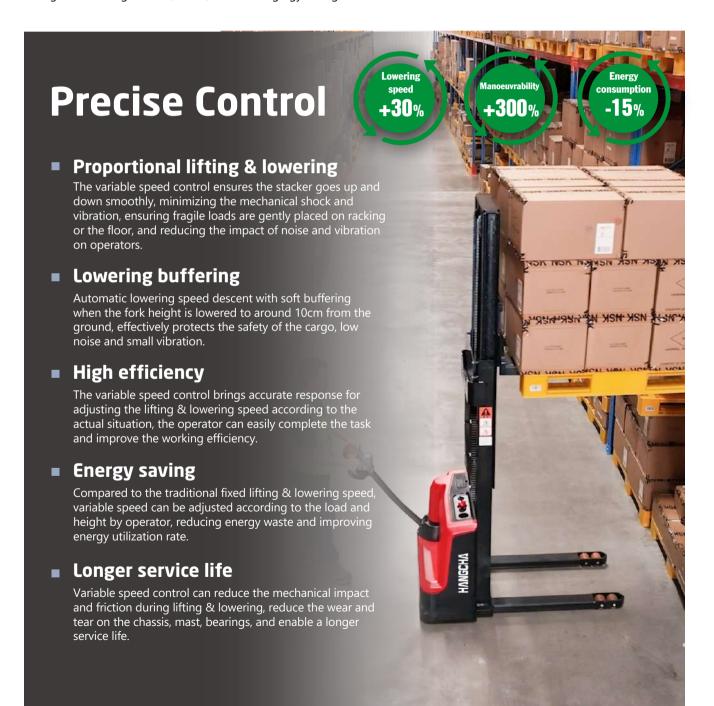
Variable speed control by proportional control knob, keeps lifting and lowering smooth, stable, safe and engergy saving.











### **Intelligent & Efficient**

Hangcha patented multifunctional intelligent tiller handle is unique design for quick fault diagnosis, enabling an easier service, shorter service time and lowered labor costs.



### Multifunctional intelligent tiller handle

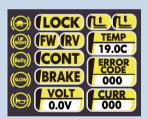


#### **Serial communication technology**

RS232

Single wiring harness communication from tiller handle to controller system. Simple, Durable and Stable.

- ✓ Low after-sales service cost
- ✓ Quick & easy fault diagnosis
- ✓ Everyone can be an expert





Operation status & fault diagnosis are integrated onto the tiller handle display for easy troubleshooting.

### **Operator Preferred**







Enable operator to choose different speed modes based on their experience and the specific work environment.

**Up-Right Drive** 



Easily maneuvered with the handle in the vertical position by pressing the turtle-speed button.

Engineering Mode (Brake Release)





When truck is down, release the brake to move the unit manually.

### **Rugged & Durable**

Due to a high-strength frame and mast design and solid materials used, the deformation of the frame, mast, and forks is small.



#### Longer service life

Mast: Standard C+H channel steel Frame: Steel plate thickness of 5mm Frame bottom plate: 30mm integrated steel plate



#### Double-chain design

Compared with single-chain design, it has higher strength, safer and more stable

### Small deformation of forks and masts, stable and durable

More stable when lifting & lowering with loads.

#### Full coverage protection on mast

#### Standard equipped with cylinder explosion-proof valve

It can prevent accidents such as uncontrolled descent caused by unexpected rupture of oil pipes, ensuring stable descent of the load and personal safety, and preventing damage to equipment.



#### **Emergency reverse switch**

In case of an emergency, it protects the operator and the surrounding personnel from harm.

#### Safety travel speed limit

When the fork is lifted to above 500mm, the driving speed automatically reduces to 2km/h to ensure the safety of operating at a high position in case of any misoperation.



#### **Built-in charger**

Hidden charging plug, high safety, the whole vehicle is powered off during charging, reducing safety hazards.

### High lateral and longitudinal stability

Wider wheelbase and longer axle distance.

#### Adjustable balance wheel

Improved stability and maneuverability, suitable for different working scenarios.





#### **High-strength forks**

The forks are formed in one piece with a thickness of 8mm steel. High strength and small deformation even under heavy loads

### The battery is fixed at the bottom of the

Improved stability.

#### **Battery low voltage protection**

Effectively avoid battery over-discharge, ensuring a longer battery life.

### **Easy & Comfortable**



- Effortless, easy to operate
   Low-mounted longer tiller
   reduces steering force required.
- Low mast static height
   Easy to operate in containers and elevators with less than 3.3m lifting height.



- The steering angle is designed to be above 180 degrees
   Small turning radius.
- Precise and maneuverable operating, high safety and efficiency.
- Reasonable design of the balancing wheel eccentric distance.

Flexible direction commutation



#### Easy to recharge

Built-in charger and an external charging cable storage box for convenient charging.

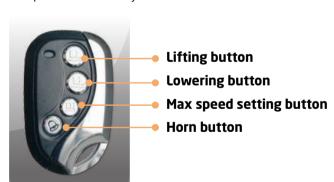
#### Longer operating time

Standard 24V/71Ah maintenance-free lead-acid battery, with the option of a larger capacity maintenance-free battery or a lithium battery.

### **Optional Configuration**

Intelligent control

Unique in the market and very suitable for sorting operations on trucks. With a dedicated remote control device, the operator can control the forks to lift to the appropriate working height and carry out sorting operations, thus avoiding the need to use the handle buttons and bend over to pick up goods, improving operational efficiency and comfort.





With the remote control device, you can easily set the speed suitable for the work, from level 1 speed to level 5 speed.

Such speed transitions allow you to move the truck with controlled operation at ease.





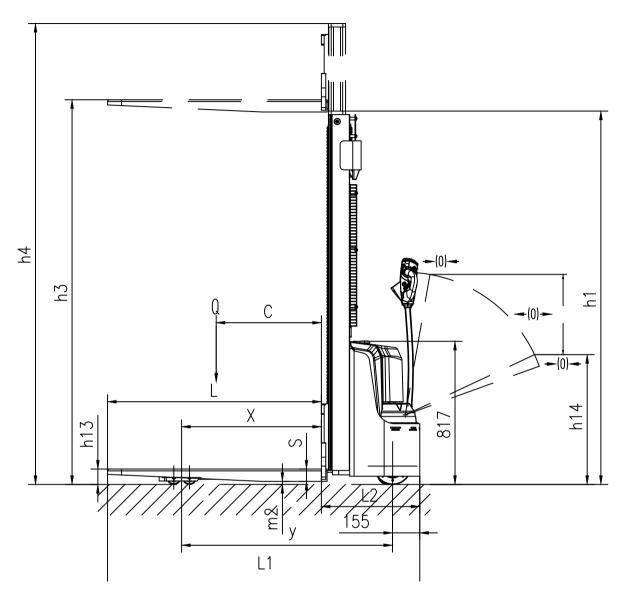


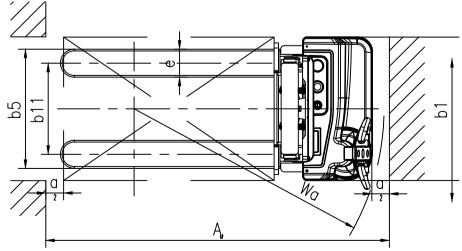
Reversing buzzer

• 24V/60Ah LiFePO<sub>4</sub>

 24V/15A Charger Lithium Battery Charger Charging time: 4 hours

# **Specifications**



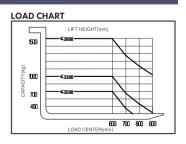


# **Specifications**

DISTINGUESHING MARKS   Sattery										
1.3   Drive		MODEL					CDD15-W	S		
1.5   Load capacity/stated load   Q   kg   1500	DIS	TINGUISHING MARKS								
1.5   Load capacity/protect load   Q   kg   1500	1.3	Drive					Battery			
1.6   Load centre distance   C	1.4	Operator type					Pedestrian			
1.8   Load distance, centre of drive aide to fork   1.9   Wheelbase   y mm   1204	1.5	Load capacity/rated load	Q	kg			1500			
19	1.6	Load centre distance	С	mm			500			
### WEIGHT  2.1 Service weight (without battery)   kg   496.4   513.4   523.4   541.4   545.4   2.2 Service weight (with 29Ah battery)   kg   548   565   570   598   592   2.3 Service weight (with 29Ah battery)   kg   548   565   575   593   597   2.4 Ale loading, laden front/rear   kg   384/129   2.5 Asle loading, laden front/rear   kg   384/129    ***TRESV GHASSIS***  ***TRESV GHASSIS***  3.1   Wheels	1.8	Load distance, centre of drive axle to fork	X	mm			796			
2.1   Service weight (without battery)	1.9	Wheelbase	у	mm			1204			
2.2   Service weight (with 71Ah batteny)	WE	IGHT								
2.2 Senvice weight (with 71Ah batteny) kg 543 560 570 588 592 2.3 Senvice weight (with 89Ah batteny) kg 548 565 575 593 597 2.4 Axel loading, Junaden front/rear kg 603/1409 2.5 Axel loading, Junaden front/rear kg 384/129  **TYRES/CHASSIS**  3.1 Wheels 3.2 Wheel size, front Øx width mm Ø210x70 3.3 Wheel size, front Øx width mm Ø210x70 3.4 Additional wheels (dimensions) Øx width mm Ø115x55 3.5 Wheels, number front/rear (x = driven wheels) 1x+1/4 3.6 Tread, front b11 mm 550 3.7 Tread, rear b11 mm 550  **THES/CHASSIS**  **DIMENSIONS**  4.2 Lowered mast height h1 mm 1480 1730 1980 2130 2230 4.4 Lift height h3 mm 2000 2500 3000 3300 3500 4.5 Extended mast height h4 mm 2435 2935 3435 3735 3935 4.9 Height of tiller in driving position, min/max. h14 mm 692/1255 4.19 Overall length 11 mm 1770 4.10 Length to face of forks 12 mm 561.5 4.21 Overall width b1 mm 820 4.22 Fork dimensions self mm 561.5 4.23 Ground clearance, centre of wheelbase m2.4 As a furming radius with for pallets 800 x 1200 lengthways Ast Ast(mm) 1997 4.34.2 Aide width for pallets 800 x 1200 lengthways Ast Ast(mm) 1997 4.34.2 Aide width for pallets 800 x 1200 lengthways Ast Ast(mm) 1997 4.35.3 Lowering speed, with/without load mm/s PERFORMINE DATA 5.1 Type of drive control DC Speed control  **DO DC speed control  **DO DC speed control  **DO Speed control  **DO DC speed control  **DO Speed control  **DO DC speed control  **DO Speed control  **DO DC speed control  **DO D	2.1	Service weight (without battery)		kg	496.4	513.4	523.4	541.4	545.4	
2.4 Axle loading, laden front/rear   kg   334/129    1.7 KES/CHASSIS   Polyurethane   3.2 Wheel size, front   Øx width mm   Ø210x70   3.3   Wheel size, rear   Øx width mm   Ø210x70   3.4   Additional wheels (dimensions)   Øx width mm   Ø115x55   3.5   Wheel, number front/rear (x = driven wheels)   3.6   Terad, front   Øx width mm   \$550   3.7   Tread, rear   DIMENSIONS   4.2   Lowered mast height   h1 mm   1480   1730   1980   2130   2230   4.3   Extended mast height   h3 mm   2000   2500   3000   3300   3500   4.5   Extended mast height   h4 mm   2435   2935   3435   3735   3935   4.9   Height foller in driving position, min/max   h14 mm   692/1255   4.15   Height lowered   h13 mm   95   4.19   Overall length   11 mm   1710   4.20   Longth to face of forks   12 mm   551.5   4.21   Overall width   b1 mm   820   4.22   Fork dimensions   skell mm   70x16xx1150   4.23   Ground clearance, centre of wheelbase   m2 m2 m2 mm   1997   4.34.2   Aisle width for pallets 800 × 1200 lengthways   Ast   Ast(mm)   1997   4.34.2   Asile width for pallets 800 × 1200 lengthways   Ast   Ast(mm)   1952   5.1   Tavel speed, with/without load   mm/s   0-85 /0-130   5.2   Lit speed, with/without load   mm/s   0-85 /0-130   5.3   Lowering speed, with/without load   mm/s   0-85 /0-130   5.4   Drive motor rating at S3 15%   kW   22   5.5   Exterrorman   22 x 21 x 271hh/o 25 x 269Ah)   5.6   Energy consumption according to EN 16796   kWh   0.45   5.1   Type of drive control   DC speed control	2.2	Service weight (with 71Ah battery)			543	560	570	588	592	
2.4 Axle loading, unladen front/rear kg 384/129  TYRES/ CHASSIS  3.1 Wheels 3.2 Wheel size, front Øx width mm Ø210x70  3.3 Wheel size, front Øx width mm Ø210x70  3.4 Additional wheels (dimensions) Øx width mm Ø115X55  3.5 Wheels, number front/rear (x = driven wheels) 3.6 Tread, front bl1 mm 550  3.7 Tread, rear bl11 mm 550  3.7 Tread, rear bl11 mm 550  3.8 Tread, front bl10 mm 550  3.9 Tread, rear bl11 mm 550  3.1 Tread, rear bl11 mm 550  3.1 Tread, rear bl11 mm 550  3.2 Wheels in the light hl1 mm 550  3.3 Tread, rear bl11 mm 550  3.6 Tread, front 500 mm 550  3.7 Tread, rear bl11 mm 550  4.2 Lowered mast height hl mm 1480 1730 1980 2130 2230  4.5 Extended mast height hl mm 2000 2500 3000 3300 3500  4.5 Extended mast height hl mm 692/1255  4.1 Height, lowered hl1 mm 955  4.1 Height, lowered hl1 mm 955  4.1 Height, lowered hl1 mm 1710  4.1 Imm 955  4.2 Deverall length 11 mm 1710  4.2 Length to face of forks 12 mm 561.5  4.2 Coverall width bl mm 820  4.2 Extended mast height 11 mm 1710  4.2 Length to face of forks 12 mm 561.5  4.2 Coverall width bl mm 820  4.2 Fork dimensions sleft mm 70x160x1150  4.2 Fork dimensions Sleft mm 70x160x1150  4.3 Form dimensions Sleft mm 70x160x1150  4.3 Tread speed, with/without load mm/s 4/4.5  5. Turning radius Wa Wa(mm) 1997  5. Lowering speed, with/without load mm/s 967.0-130  5. Max gradeablin, with/without load mm/s 967.0-130  5. Lowering speed, with/without load mm/s 967.0-130  5. Lowering speed, with/without load mm/s 967.0-130  5. Lowering speed, with/without load mm/s 97.5 Electromagnetic  ELECTRIC-ENGINE  6. Energy consumption according to EN 16796  ADDITION DATA  8. Type of drive control	2.3	Service weight (with 89Ah battery)		kg	548	565	575	593	597	
Tyres/ CHASSIS   Tyre	2.4	Axle loading, laden front/rear					603/1409			
TYRES/ CHASSIS   Section	2.5	Axle loading, unladen front/rear					384/129			
3.1   Wheels   Wheel size, front	TYF			<u> </u>						
3.2 Wheel size, front 3.3 Wheel size, rear 3.3 Wheel size, rear 3.4 Additional wheels (dimensions) 3.5 Wheels, number front/rear (x = driven wheels) 3.6 Tead, front 3.7 Tread, rear 4.2 Lowered mast height 4.2 Lowered mast height 4.3 Extended mast height 4.4 Lift height has mrn 2000 2500 3000 3300 2230 4.5 Extended mast height had mrn 2435 2935 3435 3735 3935 4.9 Height of tiller in driving position, min/max 4.15 Height, lowered 4.16 Height, lowered 4.17 Unity overall length 4.19 Overall length 4.10 Length to face of forks 4.21 Coverall width 4.22 End to face of forks 4.23 Fork dimensions 4.24 Fork dimensions 4.25 Width over forks 4.26 Ground clearance, centre of wheelbase 4.27 Fork dimensions 4.38 Ground clearance, centre of wheelbase 4.39 Fund for pallets 1000 x 1200 crossways 4.30 Funding radius 4.31 Asia e width for pallets 800 x 1200 lengthways 4.32 Lift speed, withywithout load 4.34 Lift speed, withywithout load 4.35 In Travel speed, withywithout load 5.3 Lowering speed, withywithout load 5.4 Externormal States 6.4 Battery weight x+7-5% 6.5 Extery consumption according to En 16796 6.5 Energy consumption according to En 16796 6.6 Energy consumption according to En 16796 6.7 DDITION DATA 6.1 Trave of drive control  DC speed control  DC speed control							Polyurethane			
3.3 Wheel size, rear			Ø x width	mm			-			
3.4   Additional wheels (climensions)   Ø x width mm   Ø115X55     3.5   Wheels, number front/rear (x = driven wheels)   1x + 1/4     3.6   Tread, front   550     3.7   Tread, front   510   mm   550     3.7   Tread, front   511   mm   525     525										
3.5 Wheels, number front/rear (x = driven wheels) 3.6 Tread, front b10 mm 550  3.7 Tread, rear b11 mm 525  DIMENSIONS  4.2 Lowered mast height h11 mm 1480 1730 1980 2130 2230  4.4 Lift height h14 mm 2000 2500 3000 3300 3500  4.5 Extended mast height h4 mm 2435 2935 3435 3735 3935  4.9 Height of filler in driving position, min/max. h14 mm 695  4.10 Overall length h13 mm 95  4.11 mm 1710  4.20 Length to face of forks 12 mm 561.5  4.21 Overall width b1 mm 820  4.22 Fork dimensions s/e/l mm 70x160x1150  4.23 Ground clearance, centre of wheelbase m2 m2(mm) 20  4.34.1 Asile width for pallets 1000 × 1200 crossways Ast Ast(mm) 1997  4.34.2 Aisle width for pallets 800 × 1200 lengthways Ast Ast(mm) 1997  4.34.2 Aisle width for pallets 800 × 1200 lengthways Ast Ast(mm) 1997  5.1 Travel speed, with/without load mm/s 278-137 / 225-167  5.8 Max. gradeablity, with/without load mm/s 278-137 / 225-167  5.8 Max. gradeablity, with/without load mm/s 278-137 / 225-167  5.8 Max. gradeablity, with/without load mm/s 278-137 / 225-167  5.8 Drive motor rating \$2.60 min kW 0.75  6.1 Drive motor rating \$2.50 min kW 0.75  6.2 Lift motor rating \$2.50 min kW 0.75  6.3 Drive motor rating \$2.50 min kW 0.75  6.4 Battery weight +/- 5% kg • 23.2 × 2(71Ah)/ ∘ 25.8 × 2(89Ah) 0.45  ADDITION DATA  8.1 Type of drive control DC speed control										
3.6 Tread, front b10 mm 550 3.7 Tread, rear b11 mm 525    DIMENSIONS			2 / 111441							
Differentiation   Different			b10	mm						
DIMENSIONS		,								
4.2       Lowered mast height       h1       mm       1480       1730       1980       2130       2230         4.4       Lift height       h3       mm       2000       2500       3000       3300       3500         4.5       Extended mast height       h4       mm       2435       2935       3435       3735       3935         4.9       Height of tiller in driving position, min/max       h14       mm       692/1255         4.15       Height, lowered       h13       mm       95         4.19       Overall length       l1       mm       1710         4.20       Length to face of forks       l2       mm       561.5         4.21       Overall width       b1       mm       820         4.22       Fork dimensions       s/e/l       mm       70x160x1150         4.25       Width over forks       b5       b5(mm)       560/680         4.22       Fork dimensions       s/e/l       mm       70x160x1150         4.25       Width over forks       b5       b5(mm)       560/680         4.22       Fork dimensions       s/e/l       mm       70x160x1150         4.25       Ground clearance, centre of wh		·	DII				323			
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4.9       Height of tiller in driving position, min./max.       h14       mm       692/1255         4.15       Height, lowered       h13       mm       95         4.19       Overall length       l1       mm       1710         4.20       Length to face of forks       l2       mm       561.5         4.21       Overall width       b1       mm       820         4.22       Fork dimensions       s/e/l       mm       70x160x1150         4.25       Width over forks       b5       b5(mm)       560/680         4.32       Ground clearance, centre of wheelbase       m2       m2(mm)       20         4.34.1       Aisle width for pallets 1000 × 1200 crossways       Ast       Ast (mm)       1997         4.34.2       Aisle width for pallets 800 × 1200 lengthways       Ast Ast(mm)       1997         4.35.2       Turning radius       Wa       Wa(mm)       1490         PERFORMANCE DATA         5.1       Travel speed, with/without load       km/h       4/4.5         5.2       Lift speed, with/without load       mm/s       0.85 / 0-130         5.3       Lowering speed, with/without load       mm/s       27.8-137 / 22.5-167         5.8 <t< td=""><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		3								
4.15       Height, lowered       h13       mm       95         4.19       Overall length       l1       mm       1710         4.20       Length to face of forks       l2       mm       561.5         4.21       Overall width       b1       mm       820         4.22       Fork dimensions       s/e/l       mm       70x160x1150         4.25       Width over forks       b5       b5(mm)       560/680         4.32       Ground clearance, centre of wheelbase       m2 m2(mm)       20         4.34.1       Aisle width for pallets 1000 × 1200 crossways       Ast       Ast(mm)       1997         4.34.2       Aisle width for pallets 800 × 1200 lengthways       Ast       Ast(mm)       1997         4.34.1       Aisle width for pallets 800 × 1200 lengthways       Ast       Ast(mm)       1997         4.34.2       Aisle width for pallets 800 × 1200 lengthways       Ast       Ast(mm)       1997         4.34.5       Turning radius       Wa       Wa (mm)       1490         PERFORMACE DATA         5.1       Travel speed, with/without load       km/h       4/4.5         5.2       Lift speed, with/without load       mm/s       0.85 / 0-130		9			2435	2555		3733	3333	
4.19 Overall length										
4.20       Length to face of forks       I2       mm       561.5         4.21       Overall width       b1       mm       820         4.22       Fork dimensions       s/e/l       mm       70x160x1150         4.25       Width over forks       b5       b5(mm)       560/680         4.32       Ground clearance, centre of wheelbase       m2       m2(mm)       20         4.34.1       Aisle width for pallets 1000 × 1200 crossways       Ast       Ast(mm)       1997         4.34.2       Aisle width for pallets 800 × 1200 lengthways       Ast       Ast(mm)       1952         4.35       Turning radius       Wa       Wa(mm)       1490         PERFORMANCE DATA         5.1       Travel speed, with/without load       km/h       4/4.5         5.2       Lift speed, with/without load       km/h       4/4.5         5.2       Lift speed, with/without load       mm/s       27.8-137 / 22.5-167         5.8       Max. gradeability, with/without load       mm/s       5/15         5.10       Service brake       Electromagnetic         ELECTRIC-ENGINE         6.1       Drive motor rating S2 60 min       kW       0.75         6.2 <td< td=""><td></td><td>-</td><td></td><td></td><td colspan="6"></td></td<>		-								
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4.22       Fork dimensions       s/e/l       mm       70x160x1150         4.25       Width over forks       b5       b5(mm)       560/680         4.32       Ground clearance, centre of wheelbase       m2       m2(mm)       20         4.34.1       Aisle width for pallets 1000 × 1200 crossways       Ast       Ast(mm)       1997         4.34.2       Aisle width for pallets 800 × 1200 lengthways       Ast       Ast(mm)       1952         4.35       Turning radius       Wa       Wa(mm)       1490         PERFORMANCE DATA         5.1       Travel speed, with/without load       km/h       4/4.5         5.2       Lift speed, with/without load       mm/s       0.85 / 0-130         5.3       Lowering speed, with/without load       mm/s       27.8-137 / 22.5-167         5.8       Max. gradeability, with/without load       %       5/15         5.10       Service brake       Electromagnetic         ELECTRIC-ENGINE         6.1       Drive motor rating \$2 60 min       kW       0.75         6.2       Lift motor rating at \$3 15%       kW       2.2         6.4       Battery voltage/nominal capacity (K5)       V/Ah       • 12/71 x 2 ∘ (12/89) x 2         <		<u> </u>								
4.25 Width over forks b5 b5(mm) 560/680  4.32 Ground clearance, centre of wheelbase m2 m2(mm) 20  4.34.1 Aisle width for pallets 1000 × 1200 crossways Ast Ast(mm) 1997  4.34.2 Aisle width for pallets 800 × 1200 lengthways Ast Ast(mm) 1952  4.35 Turning radius Wa Wa(mm) 1490  PERFORMANCE DATA  5.1 Travel speed, with/without load km/h 4/4.5  5.2 Lift speed, with/without load mm/s 0-85 / 0-130  5.3 Lowering speed, with/without load mm/s 27.8-137 / 22.5-167  5.8 Max. gradeability, with/without load % 5/15  5.10 Service brake Electromagnetic  ELECTRIC-ENGINE  6.1 Drive motor rating \$2.60 min kW 0.75  6.2 Lift motor rating at \$3.15% kW 2.2  6.4 Battlery voltage/nominal capacity (K5) V/Ah • 12/71 x 2 ∘ (12/89) x 2  6.5 Battery weight +/- 5% kg • 23.2 x 2 (71Ah)/ ∘ 25.8 x 2 (89Ah)  6.6 Energy consumption according to EN 16796 kWh 0.45  ADDITION DATA  8.1 Type of drive control										
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5.2       Lift speed, with/without load       mm/s       0-85 / 0-130         5.3       Lowering speed, with/without load       mm/s       27.8-137 / 22.5-167         5.8       Max. gradeability, with/without load       %       5/15         5.10       Service brake       Electromagnetic         ELECTRIC-ENGINE         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 voltage/nominal capacity (K5)       V/Ah       • 12/71 x 2 ∘ (12/89) x 2         6.5       Battery weight +/- 5%       kg       • 23.2 x 2(71Ah)/ ∘ 25.8 x 2(89Ah)         6.6       Energy consumption according to EN 16796       kWh       0.45         ADDITION DATA         8.1       Type of drive control       DC speed control										
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5.8 Max. gradeability, with/without load % 5/15  5.10 Service brake Electromagnetic  ELECTRIC-ENGINE  6.1 Drive motor rating \$2 60 min kW 0.75  6.2 Lift motor rating at \$3 15% kW 2.2  6.4 Battery voltage/nominal capacity (K5) V/Ah • 12/71 x 2 \circ (12/89) x 2  6.5 Battery weight +/- 5% kg • 23.2 x 2(71Ah)/ \circ 25.8 x 2(89Ah)  6.6 Energy consumption according to EN 16796 kWh 0.45  ADDITION DATA  8.1 Type of drive control DC speed control		·								
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ADDITION DATA  8.1 Type of drive control  DC speed control	6.5	Battery weight +/- 5%		kg						
8.1 Type of drive control DC speed control	6.6	Energy consumption according to EN 16796		kWh			0.45			
•	ADE									
8.4 Sound level at the driver's ear according to EN 12053 dB(A) <75	8.1	Type of drive control				[	OC speed contro	ol		
	8.4	Sound level at the driver's ear according to EN 12053		dB(A)			<75			

Note: 1kgs=2.2lbs, 5.4mm=1inch ● standard ∘ option

MAST DIMENSIONS												
	CDD15-WS		Duplex Mast									
h1	Lowered mast height	mm	1480	1730	1980	2130	2230					
h3	Lift height	mm	2000	2500	3000	3300	3500					
h4	Extended mast height	mm	2435	2935	3435	3735	3935					





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