# WAL20 PRO

#### **ELECTRIC PALLET TRUCK**

^ 2000 kg 📑 125 mm 🛅 24 V Li-lon





Ideal for warehouses, retail logistics, manufacturing, and last-mile distribution, the WAL 20 PRO thrives in narrow aisles, containers, and high-density storage zones. Its ultra-compact chassis (435 mm length) and tight 1,283 mm turning radius make it the perfect solution for operations with limited maneuvering space. From goods movement on trucks to order fulfillment in busy warehouses, it ensures reliable, quiet, and safe material handling across shifts.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-lon
Battery nominal capacity		Ah	100
Battery voltage		V	24
Load capacity	Q	kg	2000
Load centre distance	С	mm	600
Service weight		kg	350
Lift height	h <sub>3</sub>	mm	125
Overall length		mm	1585
Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	720
Length to face of forks	I <sub>2</sub>	mm	435
Fork dimensions	s/e/l	mm	55/170/1150
Turning radius		Wa	1283
Operator type			Pedestrian
Load distance, centre of drive axle to fork		mm	980
Wheelbase		mm	1257
Axle loading, laden front/rear		kg	930/1420

#### **Features**

#### **Ultra-Compact Chassis and Tight Turning Radius**

With a class-leading 435 mm chassis length and 1,283 mm turning radius, the WAL 20 PRO operates effortlessly in narrow aisles, trailers, and confined spaces. This compact build enhances maneuverability and reduces storage and transport costs.





#### **Synchronized Castor Stability System**

The innovative synchronized castor system maintains balance and traction under heavy loads or uneven floors. Operating noise remains below 65 dB, ensuring smooth, quiet, and safe handling in all warehouse conditions.

#### **Advanced Lithium Technology with Integrated Charger**

Equipped with a 24 V / 100 Ah Li-ion battery and 30 A integrated charger, the WAL 20 PRO enables opportunity charging during breaks for maximum uptime. The optional 205 Ah battery and 100 A external charger support intensive multi-shift operations.

#### **High-Performance Dual Motor System**

A 2.2 kW pump motor and 1.6 kW AC drive motor deliver fast travel, lifting, and lowering speeds. With strong gradeability and responsive control, the truck performs reliably in heavy-duty warehouse and logistics applications.

#### **Operator-Focused Digital Features**

The multi-function color display shows battery level, speed, status, and time; the ESP drive mode selector adapts performance to operator preferences. Optional operator ID (PIN or card) and Bluetooth app connectivity enhance safety and simplify maintenance.

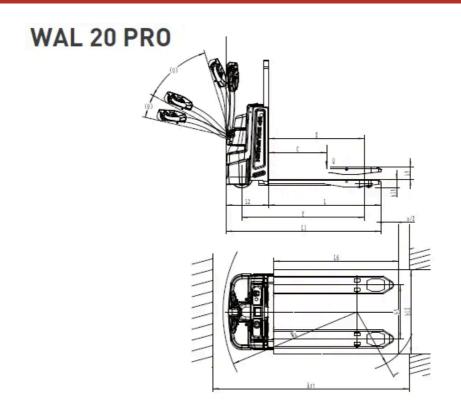


### **VDI Chart**

1.4         Operator type         y         kg         2000           1.5         Load capacity         0         kg         2000           1.6         Load contre distance         c         mm         600           1.8         Load distance, centre of drive axie to fork         mm         980           1.9         Wheelbase         mm         1257           2.1         Service weight         kg         350 (120           2.2         Axie loading, laden front/rear         kg         350/1420           2.3         Axie loading, laden front/rear         kg         280/70           3.1         Tyre size, front         ye         220x 75           3.2         Tyre size, front         ye         2030 x 75           3.3         Tyre size, front         ye         2030 x 75           3.4         Tyre size, front         ye         2030 x 75           3.5         Additional wheels (castor wheels)         ye         71/24           3.6         Tyre size, front         ye         71/24           3.6         Tead width, front         bin         ye         70/430           3.6         Deset, number front/rear (xedrive wheels)         ye         85		SPECIFICATION	REF	UNIT	VALUE
1.6         Load centre distance         c         mm         600           1.8         Load distance, centre of drive axie to fork         mm         980           1.9         Wheelbase         mm         1257           2.1         Service weight         kg         350           2.2         Axie loading, laden front/rear         kg         900/1420           2.3         Axie loading, unladen front/rear         kg         290/70           3.1         Tyre type         PU         PU           3.2         Tyre size, front         PU         PU           3.3         Tyre size, rear         PU         PU           3.5         Additional wheels (castor wheels)         PO         PAX30           3.5         Meels, number front/rear (x=drive wheels)         TUZ/4         PAX30           3.6         Tread width, front         Ba         mm         500           3.7         Tread width, front         Ba         mm         500           4.15         Lowered height         mm         5585           4.20         Loverall length         mm         720           4.21         Oxerall width         pu/pu         551/70/1150           4.22	1.4	Operator type			Pedestrian
1.8         Load distance, centre of drive axie to fork         mm         980           1.9         Wheelbase         mm         1257           2.1         Service weight         kg         350           2.2         Axie loading, laden front/rear         kg         930/1420           2.3         Axie loading, unladen front/rear         kg         2807/0           3.1         Tyre type         PU           3.2         Tyre size, front	1.5	Load capacity	Q	kg	2000
1.9         Wheelbase         mm         1257           2.1         Service weight         kg         350           2.2         Axle loading, laden front/rear         kg         300/1420           2.3         Axle loading, unladen front/rear         kg         280/70           3.1         Tyre type         PU           3.2         Tyre size, front         ₩230 x 75           3.3         Tyre size, rear         ₩200 x 5           3.5         Additional wheels (castor wheels)         1/2/4           3.5         Wheels, number front/rear (x-drive wheels)         1/2/4           3.6         Tread width, front         b10         mm         500           3.7         Tread width, rear         b11         mm         500           4.15         Lowered height         5         85           4.19         Overall length         mm         1585           4.20         Lowered forks         I2         mm         435           4.21         Overall length of ace of forks         I2         mm         720           4.22         Fork dimensions         5/e/1         mm         5/170/1150           4.25         Distance between fork-arms         mm	1.6	Load centre distance	С	mm	600
Service weight	1.8	Load distance, centre of drive axle to fork		mm	980
2.2         Axle loading, laden front/rear         kg         930/1420           2.3         Axle loading, unladen front/rear         kg         280/70           3.1         Tyre type         PU           3.2         Tyre size, front         0230 x 75           3.3         Tyre size, rear         080x85           3.5         Additional wheels (castor wheels)         172/4           3.6         Tread width, front         b <sub>10</sub> mm         500           3.7         Tread width, front         b <sub>11</sub> mm         370/515           4.15         Lowered height         85           4.19         Overall length         mm         1585           4.20         Length to face of forks         I2 mm         435           4.21         Overall width         b <sub>1</sub> /b <sub>2</sub> mm         720           4.22         Fork dimensions         s/e/1 mm         55/170/1150           4.23         Ground clearance, centre of wheelbase         mm         27           4.34.1         Aisle width for pallets 800×1200 crossways         Ast         1883           4.34.2         Aisle width for pallets 800×1200 lengthways         Ast         1883           4.34.2         Aisle width for pallets 800×1200 lengthways         Wa <td>1.9</td> <td>Wheelbase</td> <td></td> <td>mm</td> <td>1257</td>	1.9	Wheelbase		mm	1257
2.3         Axle loading, unladen front/rear         kg         280/70           3.1         Tyre type         PU           3.2         Tyre size, front         \$\psi200 x75\$           3.3         Tyre size, rear         \$\psi80 x85\$           3.5         Additional wheels (castor wheels)         \$\psi200 x7430\$           3.5         Wheels, number front/rear (x=drive wheels)         \$\psi200 x72430\$           3.6         Tread width, front         \$\psi_{10}\$ mm         \$\psi000\$           3.7         Tread width, rear         \$\psi_{11}\$ mm         \$\psi000\$           4.15         Lowered height         \$\psi         \$\psi50\$           4.20         Length to face of forks         \$\psi_2\$ mm         \$\psi000 x200\$           4.21         Overall width         \$\psi/2^\pu\$ mm         \$\psi0000 x200\$           4.22         Fork dimensions         \$\psi/2^\pu\$ mm         \$\psi0000 x200\$           4.23         Distance between fork-arms         \$\psi/2^\pu\$ mm         \$\psi000000000000000000000000000000000000	2.1	Service weight		kg	350
3.1       Tyre type       PU         3.2       Tyre size, front       0230 x 75         3.3       Tyre size, rear       080x85         3.5       Additional wheels (castor wheels)       074x30         3.6       Tread width, front       01/2/4         3.6       Tread width, rear       01/2/4         4.15       Lowered height       85         4.19       Overall length       85         4.20       Length to face of forks       12       mm       1585         4.21       Overall width       5/2/2       mm       720         4.22       Fork dimensions       5/2/2       mm       55/170/1150         4.25       Distance between fork-arms       5/2/2       mm       27         4.34.1       Aisle width for pallets 1000×1200 crossways       4/3       2083         4.34.2       Aisle width for pallets 800×1200 lengthways       4/3       1883         4.35       Turning radius       Wa       1283         4.4       Lift height       h       900/1230         4.9       Height of tiller handle in drive position min/max.       Wa       1283         5.1       Travel speed, laden/unladen       m/s	2.2	Axle loading, laden front/rear		kg	930/1420
3.2       Tyre size, front       4230 x 75         3.3       Tyre size, rear       480x85         3.5       Additional wheels (castor wheels)       774x30         3.5       Wheels, number front/rear (x=drive wheels)       1/2/4         3.6       Tread width, front       b <sub>18</sub> mm       500         3.7       Tread width, rear       85         4.15       Lowered height       85         4.20       Length to face of forks       12 mm       435         4.21       Overall width       1/2/2 mm       720         4.22       Fork dimensions       1/2/2 mm       720         4.23       Fork dimensions       1/2/2 mm       55/170/1150         4.24       Overall width       5/2/1 mm       720         4.25       Distance between fork-arms       1/2/2 mm       720         4.34       Aisle width for pallets 1000×1200 crossways       Ast       2083         4.34.1       Aisle width for pallets 800×1200 lengthways       Ast       1883         4.34.2       Aisle width for pallets 800×1200 lengthways       Wa       1283         4.35       Turning radius       Wa       128         4.4       Lift height       h       m/m       6/6	2.3	Axle loading, unladen front/rear		kg	280/70
3.3 Tyre size, rear	3.1	Tyre type			PU
3.5       Additional wheels (castor wheels)       574x30         3.5       Wheels, number front/rear (x=drive wheels)       1/2/4         3.6       Tread width, front       b10       mm       500         3.7       Tread width, rear       b11       mm       370/515         4.15       Lowered height       85         4.19       Overall length       mm       1585         4.20       Length to face of forks       I2       mm       435         4.21       Overall width       b1/b2       mm       720         4.22       Fork dimensions       S/e/1       mm       55/170/1150         4.25       Distance between fork-arms       S/e/1       mm       27         4.34       Aisle width for pallets 1000×1200 crossways       Ast       2083         4.34.1       Aisle width for pallets 800×1200 lengthways       Ast       1883         4.35       Turning radius       Wa       125         4.39       Height of tiller handle in drive position min./max.       Wa       125         4.9       Height of tiller handle in drive position min./max.       wm/h       6/6         5.1       Travel speed, laden/unladen       mm/s       0.065/0.078         5.2 <td>3.2</td> <td>Tyre size, front</td> <td></td> <td></td> <td>Ф230 х 75</td>	3.2	Tyre size, front			Ф230 х 75
3.5       Wheels, number front/rear (x=drive wheels)       1/2/4         3.6       Tread width, front       b <sub>10</sub> mm       500         3.7       Tread width, rear       b <sub>11</sub> mm       370/515         4.15       Lowered height       85         4.19       Overall length       mm       1585         4.20       Length to face of forks       I <sub>2</sub> mm       435         4.21       Overall width       b <sub>1</sub> /b <sub>2</sub> mm       720         4.22       Fork dimensions       s/e/1 mm       55/170/1150         4.25       Distance between fork-arms       y/e/1 mm       27         4.32       Ground clearance, centre of wheelbase       mm       27         4.34.1       Aisle width for pallets 800×1200 crossways       Ast       1883         4.34.2       Aisle width for pallets 800×1200 lengthways       Ast       1883         4.34.3       Turning radius       Wa       125         4.9       Height of tiller handle in drive position min./max.       yo0/1230         5.1       Travel speed, laden/unladen       km/h       6/6         5.1       Travel speed, laden/unladen       m/s       0.065/0.078         5.2       Lifting speed, laden/unladen       m/s       0.040/0.04     <	3.3	Tyre size, rear			Ф80х85
3.6         Tread width, front         b <sub>10</sub> mm         500           3.7         Tread width, rear         b <sub>11</sub> mm         370/515           4.15         Lowered height         85           4.19         Overall length         mm         1585           4.20         Length to face of forks         I <sub>2</sub> mm         435           4.21         Overall width         b <sub>1</sub> /b <sub>2</sub> mm         720           4.22         Fork dimensions         s/e/1 mm         55/170/1150           4.25         Distance between fork-arms         s/e/1 mm         27           4.32         Ground clearance, centre of wheelbase         mm         27           4.34.1         Aisle width for pallets 1000×1200 crossways         Ast         2083           4.34.2         Aisle width for pallets 800×1200 lengthways         Ast         1883           4.35         Turning radius         Wa         1223           4.4         Lift height         h <sub>3</sub> mm         125           4.9         Height of tiller handle in drive position min./max.         wh/h         6/6           5.10         Service brake         Electromagnetic           5.1         Lifting speed, laden/unladen         m/s         0.065/0.078           5.	3.5	Additional wheels (castor wheels)			Ф74х30
3.7         Tread width, rear         b11         mm         370/515           4.15         Lowered height         85           4.19         Overall length         mm         1585           4.20         Length to face of forks         I         mm         435           4.21         Overall width         b1/b2         mm         720           4.22         Fork dimensions         \$/e/1         mm         55/170/1150           4.25         Distance between fork-arms         *         *         540/685           4.32         Ground clearance, centre of wheelbase         mm         27           4.34.1         Aisle width for pallets 1000×1200 crossways         Ast         2083           4.34.2         Alse width for pallets 800×1200 lengthways         Ast         1883           4.35         Turning radius         Wa         1283           4.4         Lift height         h3         mm         125           4.9         Height of tiller handle in drive position min/max.         km/h         6/6           5.10         Service brake         km/h         6/6           5.10         Service brake         Electromagnetic           5.2         Lifting speed, laden/unladen	3.5	Wheels, number front/rear (x=drive wheels)			1/2/4
4.15       Lowered height       585         4.19       Overall length       mm       1585         4.20       Length to face of forks       Iz       mm       435         4.21       Overall width       b1/b2       mm       720         4.22       Fork dimensions       S/e/l       mm       55/170/1150         4.25       Distance between fork-arms       S/e/l       mm       27         4.32       Ground clearance, centre of wheelbase       mm       27         4.34.1       Asile width for pallets 1000×1200 crossways       Ast       2083         4.34.2       Asile width for pallets 800×1200 lengthways       Ast       1883         4.35       Turning radius       Wa       1283         4.9       Height of tiller handle in drive position min./max.       Wm/m       6/6         5.1       Travel speed, laden/unladen       km/h       6/6         5.10       Service brake       m/s       0.065/0.078         5.2       Lifting speed, laden/unladen       m/s       0.04/0.04	3.6	Tread width, front	b <sub>10</sub>	mm	500
4.19       Overall length       mm       1585         4.20       Length to face of forks       I_2       mm       435         4.21       Overall width       b_1/b_2       mm       720         4.22       Fork dimensions       s/e/1       mm       55/170/1150         4.25       Distance between fork-arms       540/685       540/685         4.32       Ground clearance, centre of wheelbase       mm       27         4.34.1       Aisle width for pallets 1000×1200 crossways       Ast       2083         4.34.2       Aisle width for pallets 800×1200 lengthways       Ast       1883         4.35       Turning radius       Wa       1283         4.4       Lift height       h <sub>3</sub> mm       125         4.9       Height of tiller handle in drive position min./max.       km/h       6/6         5.1       Travel speed, laden/unladen       km/h       6/6         5.10       Service brake       Electromagnetic         5.2       Lifting speed, laden/unladen       m/s       0.04/0.04	3.7	Tread width, rear	b <sub>11</sub>	mm	370/515
4.20       Length to face of forks $I_2$ mm       435         4.21       Overall width $b_1/b_2$ mm       720         4.22       Fork dimensions $s/e/1$ mm       55/170/1150         4.25       Distance between fork-arms $540/685$ 4.32       Ground clearance, centre of wheelbase       mm       27         4.34.1       Aisle width for pallets $1000 \times 1200$ crossways       Ast       2083         4.34.2       Aisle width for pallets $800 \times 1200$ lengthways       Ast       1883         4.35       Turning radius       Wa       1283         4.4       Lift height $h_3$ mm       125         4.9       Height of tiller handle in drive position min./max.       900/1230         5.1       Travel speed, laden/unladen       km/h       6/6         5.10       Service brake       Electromagnetic         5.2       Lifting speed, laden/unladen       m/s       0.065/0.078         5.3       Lowering speed, laden/unladen       m/s       0.04/0.04	4.15	Lowered height			85
4.21       Overall width $b_1/b_2$ mm       720         4.22       Fork dimensions $s/e/1$ mm $55/170/1150$ 4.25       Distance between fork-arms $540/685$ 4.32       Ground clearance, centre of wheelbase       mm $27$ 4.34.1       Aisle width for pallets $1000 \times 1200$ crossways       Ast $2083$ 4.34.2       Aisle width for pallets $800 \times 1200$ lengthways       Ast $1883$ 4.35       Turning radius       Wa $1283$ 4.4       Lift height $h_3$ mm $125$ 4.9       Height of tiller handle in drive position min./max. $900/1230$ 5.1       Travel speed, laden/unladen       km/h $6/6$ 5.10       Service brake       Electromagnetic         5.2       Lifting speed, laden/unladen       m/s $0.065/0.078$ 5.3       Lowering speed, laden/unladen       m/s $0.04/0.04$	4.19	Overall length		mm	1585
4.22         Fork dimensions         s/e/1         mm         55/170/1150           4.25         Distance between fork-arms         540/685           4.32         Ground clearance, centre of wheelbase         mm         27           4.34.1         Aisle width for pallets 1000×1200 crossways         Ast         2083           4.34.2         Aisle width for pallets 800×1200 lengthways         Ast         1883           4.35         Turning radius         Wa         1283           4.4         Lift height         h <sub>3</sub> mm         125           4.9         Height of tiller handle in drive position min./max.         900/1230           5.1         Travel speed, laden/unladen         km/h         6/6           5.10         Service brake         Electromagnetic           5.2         Lifting speed, laden/unladen         m/s         0.065/0.078           5.3         Lowering speed, laden/unladen         m/s         0.04/0.04	4.20	Length to face of forks	I <sub>2</sub>	mm	435
4.25       Distance between fork-arms       540/685         4.32       Ground clearance, centre of wheelbase       mm       27         4.34.1       Aisle width for pallets 1000×1200 crossways       Ast       2083         4.34.2       Aisle width for pallets 800×1200 lengthways       Ast       1883         4.35       Turning radius       Wa       1283         4.4       Lift height       h3       mm       125         4.9       Height of tiller handle in drive position min./max.       900/1230         5.1       Travel speed, laden/unladen       km/h       6/6         5.10       Service brake       Electromagnetic         5.2       Lifting speed, laden/unladen       m/s       0.065/0.078         5.3       Lowering speed, laden/unladen       m/s       0.04/0.04	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	720
4.32Ground clearance, centre of wheelbasemm274.34.1Aisle width for pallets 1000×1200 crosswaysAst20834.34.2Aisle width for pallets 800×1200 lengthwaysAst18834.35Turning radiusWa12834.4Lift heighth3mm1254.9Height of tiller handle in drive position min./max.900/12305.1Travel speed, laden/unladenkm/h6/65.10Service brakeElectromagnetic5.2Lifting speed, laden/unladenm/s0.065/0.0785.3Lowering speed, laden/unladenm/s0.04/0.04	4.22	Fork dimensions	s/e/l	mm	55/170/1150
4.34.1Aisle width for pallets 1000×1200 crosswaysAst20834.34.2Aisle width for pallets 800×1200 lengthwaysAst18834.35Turning radiusWa12834.4Lift heighth3mm1254.9Height of tiller handle in drive position min./max.900/12305.1Travel speed, laden/unladenkm/h6/65.10Service brakeElectromagnetic5.2Lifting speed, laden/unladenm/s0.065/0.0785.3Lowering speed, laden/unladenm/s0.04/0.04	4.25	Distance between fork-arms			540/685
4.34.2Aisle width for pallets 800×1200 lengthwaysAst18834.35Turning radiusWa12834.4Lift heighth3mm1254.9Height of tiller handle in drive position min./max.900/12305.1Travel speed, laden/unladenkm/h6/65.10Service brakeElectromagnetic5.2Lifting speed, laden/unladenm/s0.065/0.0785.3Lowering speed, laden/unladenm/s0.04/0.04	4.32	Ground clearance, centre of wheelbase		mm	27
4.35Turning radiusWa12834.4Lift heighth3mm1254.9Height of tiller handle in drive position min./max.900/12305.1Travel speed, laden/unladenkm/h6/65.10Service brakeElectromagnetic5.2Lifting speed, laden/unladenm/s0.065/0.0785.3Lowering speed, laden/unladenm/s0.04/0.04	4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	2083
4.4 Lift height  4.9 Height of tiller handle in drive position min./max.  5.1 Travel speed, laden/unladen  5.10 Service brake  5.2 Lifting speed, laden/unladen  5.3 Lowering speed, laden/unladen  5.4 Mr/s  5.5 Dood/0.04	4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	1883
4.9 Height of tiller handle in drive position min./max. 900/1230  5.1 Travel speed, laden/unladen km/h 6/6  5.10 Service brake Electromagnetic  5.2 Lifting speed, laden/unladen m/s 0.065/0.078  5.3 Lowering speed, laden/unladen m/s 0.04/0.04	4.35	Turning radius		Wa	1283
5.1Travel speed, laden/unladenkm/h6/65.10Service brakeElectromagnetic5.2Lifting speed, laden/unladenm/s0.065/0.0785.3Lowering speed, laden/unladenm/s0.04/0.04	4.4	Lift height	h <sub>3</sub>	mm	125
5.10Service brakeElectromagnetic5.2Lifting speed, laden/unladenm/s0.065/0.0785.3Lowering speed, laden/unladenm/s0.04/0.04	4.9	Height of tiller handle in drive position min./max.			900/1230
5.2 Lifting speed, laden/unladen m/s 0.065/0.078  5.3 Lowering speed, laden/unladen m/s 0.04/0.04	5.1	Travel speed, laden/unladen		km/h	6/6
5.3 Lowering speed, laden/unladen m/s 0.04/0.04	5.10	Service brake			Electromagnetic
	5.2	Lifting speed, laden/unladen		m/s	0.065/0.078
5.8 Max. gradeability, laden/unladen % 10/20	5.3	Lowering speed, laden/unladen		m/s	0.04/0.04
	5.8	Max. gradeability, laden/unladen		%	10/20

	SPECIFICATION	REF	UNIT	VALUE
6.1	Drive motor rating S2 60 min		kW	1.6
6.2	Lift motor rating at S3 15%		kW	2.2
6.4	Battery nominal capacity		Ah	100
6.4	Battery voltage		V	24
6.4.1	Battery type			Li-lon
6.5	Battery weight		kg	44
6.6	Energy consumption according to DIN EN 16796		kWh/h	0.256
6.7	Turnover output according to VDI 2198			85.16
6.8	Turnover efficiency according to VDI 2198			171.35
8.1	Type of drive control			AC
10.5	Steering design			Mechanical
10.7	Sound pressure level at the drivers ear		dB(A)	65

## **VDI Drawing**



### **Options**

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	540*1150 540*850 540*1000 540*1220 540*1300 540*1450 540*1600  540*1800 540*2000 540*2400 685*850 685*100 685*1150 685*1220 685*1300  685*450 685*1600 685*1800 685*2000 685*2400
Fork lowered height	85
Backrest height	no   1220   1520
Load wheel type	double   single
Traction pin	no   Yes and not customized
Load wheel material	PU
Drive wheel material	PU   Trace PU
Battery capacity	100Ah (Li-ion)   205Ah (Li-ion)
Charger	24V-30A Integrated   24V-100A External
Battery display indicator (BDI)	With hourmeter
Vertical handler working	Yes and not customized
Telematics	Yes and not customized   No
Castor wheels	Yes and not customized
Cold storage	No   Yes and not customized
Drive cover off the ground	35mm