

NO20N2 NO20N2P

NO25N2 NO25N2P

NO12N2F NO12N2FP

PRELIMINARY SPECIFICATIONS

LOW LEVEL ORDER PICKER 24V, 1.2 - 2.5 TONNES



PEAK PRODUCTIVITY AT LOWER HEIGHTS

THE NO_N2 RANGE OF LOW-LEVEL ORDER PICKERS IS ALL ABOUT MAKING BEST USAGE OF ENERGY AS WELL AS DELIVERING THE BEST ENERGY-EFFICIENCY IN THE MARKET. ITS DESIGN MAXIMIZES YOUR OPERATOR'S PRODUCTIVITY AND LEADS TO FULL POWER TO YOUR WAREHOUSE OPERATION.





Building on the Responsive Drive System (RDS) technology pioneered in recent Cat electric counterbalance trucks, the order pickers react rapidly to operator steering behavior and travel speed.



Their unique intelligent curve control constantly adjusts steering sensitivity, cornering speed and turning angle limitation to meet changing needs. The latest generation of controllers and software also optimizes acceleration, traction, regenerative braking and other characteristics for smooth, confident and enjoyable operation.



Along with its innovative, adjustable, effortless steering wheel and integrated ergonomic controls, each truck helps energize its user with a triple-suspension floor, comfortable backrest and plenty of unobstructed space.



Easy walk-through access and 'flying start' drive add further efficiencies, while low power consumption and durable construction reduce operating costs.

LOWER COST OF OWNERSHIP

- Integrated single-unit motor and gear design adds reliability and delivers excellent energy efficiency.
- Simplified one-piece main frame, with welded steel construction, is strong and durable.
- New design for fork carriage, linkages and levers reduces wear and roller damage, and prevents any linkage protrusion into the operator compartment.
- Forks are wide and reinforced for durability, while the fork carriage's smooth, flat front face prevents cutting or trapping of goods by sharp edges.
- Simple and quick accessibility of systems and components minimizes downtime.
- Display of service hours and battery status helps to keep operator informed at all times.

UNMATCHED PRODUCTIVITY

- Unique intelligent curve control reacts rapidly to operator steering behavior and travel speed adjusting sensitivity, cornering speed and angle limitation to meet changing needs.
- Steering control characteristics are modified when reversing to allow for operator's sideways position and one-handed operation.
- Advanced traction control ensures smooth, rapid acceleration and prevents wheelspin and wear when driving on slippery surfaces or carrying heavy loads.
- Deceleration rate and stopping distance are easy to control and predict for perfect positioning, and are programmable using TruckTool.
- ECO and PRO driving modes can be selected according to the operator and application, and customized settings can also be applied to meet more specific requirements.
- Walk-by-side operation can be controlled via the steering wheel, with angles limited for safety, to improve view of fork tips (optional side-mounted controls are available).
- 'Flying start' function allows operator to begin acceleration from walk-beside position, before stepping onto the presence-detecting floor mat, for quicker access to drive.
- Spacious and unobstructed operator compartment, with non-slip mat, low step height and no tripping hazards, ensures quick walkthrough access.
- Bevelled fork tips and tandem load wheels enable rapid pallet and picking cage entry with less risk of damage.
- Class-leading fork lift height (up to 220 mm even in lowest-lifting models) enhances ground clearance of pallets and picking cages for fast, safe handling on loading docks and ramps.
- Range includes a variety of rising fork (F) and rising operator platform (P) models for different applications.

AWARENESS AND ERGONOMICS

- High-comfort, triple-suspension floor offers floating platform to dampen shocks and vibrations, sideways dampening to relax knees and ankles, and thick state-of-the-art matting to reduce microvibration.
- Angled footrest minimizes strain for seated (see options) and tall operators.
- Optimized backrest design gives maximum walk-through access width at hip level, easy passage for operators carrying goods, and secure leaning support during turns.
- Innovative steering wheel, with vibration damping, is effortless to operate with either hand and can be adjusted for height and angle to maximize comfort.
- Ergonomically shaped accelerator-triggers and other controls, integrated into steering wheel, are easily reached by operator without releasing grip.
- Top-of-steering-wheel hand positioning option enables comfortable and controlled reversing with reduced twisting of shoulders and wrists.
- Regenerative braking, optimized to eliminate swaying effect at full stop, combines with hill hold function and anti-lock brakes to aid smooth operation, and confidence in virtually all conditions.
- Storage space for operator equipment is provided in a rear compartment and in trays at the front (optional).



STANDARD EQUIPMENT AND OPTIONS

	NO20N2	NO20N2P	N025N2	NO25N2P	NO12N2F	NO12N2FP
GENERAL						
Multifunctional steering wheel (electric 200°)	•	•	•	•	•	•
Power ON/OFF by Key switch	•	•	•	•	•	•
Hour meter & BDI	•	•	•	•	•	•
ECO/PRO mode	•	•	•	•	•	•
Drive speed reduction in curves	•	•	•	•	•	•
Maximum drive speed adjusted according to load weight	•	•	•	•	•	•
Floor mat acting as dead man's pedal	•	•	•	•	•	•
Crane battery change	•	•	•	•	•	•
Polyurethane wheels	•	•	•	•	•	•
Tandem load wheels polyurethane	•	•	•	•	•	•
Suspended operator's platform	•	•	•	•	•	•
Simultaneously driving and lifting of the forks	•	•	•	•	•	•
Ramp hold	•	•	•	•	•	•
Automatic parking brake	•	•	•	•	•	•
Lifting operator's platform, h=1000 mm (NO20N2P/25N2P, NO12N2FP	_	•	_	•	-	•
Lift height (h3 + h13) 220 mm (NO20N2/25N2, NO20N2P/25N2P)	•	•	•	•	_	_
Lift height (h3 + h13) 850 mm (NO12N2F, NO12N2FP)	_	-	_	-	•	•
Simultaneous driving and lifting of the operator's platform	_	•	_	•	-	•
Drive speed reduction when platform raised (4 km/h)	_	•	_	•	-	•
Drive speed reduction when forks raised (lift height > 300 mm)		-	_	_	•	•
ENVIRONMENT						
Cold store design, OC° to -35C°	0	0	0	0	0	0
DRIVE / LIFT CONTROLS						
Walk-beside drive button in backrest, FWD/BWD	0	0	0	0	0	0
Buttons for lift/lower on sides of backrest	0	0	0	0	0	0
AWARENESS						
Blue point safety light towards driving direction (forks trailing)	0	0	0	0	0	0
Driving light towards driving direction (forks trailing)	0	0	0	0	0	0
Warning strobe, yellow	0	0	0	0	0	0
Drive alarm (programmable)	0	0	0	0	0	0
Fire extinguisher	0	0	0	0	0	0
WHEEL OPTIONS						
Polyurethane traction and load wheels	•	•	•	•	•	•
Power friction traction wheel	0	0	0	0	0	0
COLOR						
Special RAL color on front machinery steel cover	0	0	0	0	0	0



STANDARD EQUIPMENT AND OPTIONS

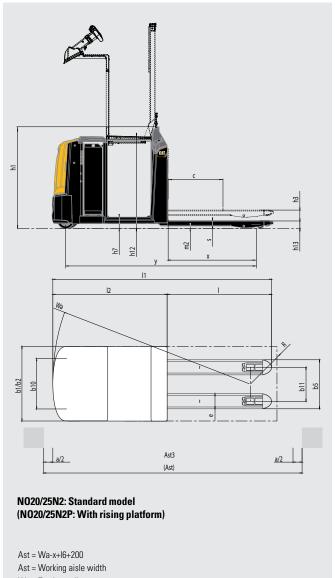
	N020N2	NO20N2P	N025N2	N025N2P	N012N2F	N012N2FP
OTHER OPTIONS						
High drive speed 13 km/h (without load)	0	0	•	•	0	0
PIN code access with BDI display	0	0	0	0	0	0
PIN code access with color display	0	0	0	0	0	0
Color display without PIN code access	0	0	0	0	0	0
Walk-beside drive button in backrest, FWD/BWD	0	0	0	0	0	0
Buttons for lift/lower on sides of backrest	0	0	0	0	0	0
Accessory rail in front	0	_	0	-	0	_
Picking tray, for NO20/25N2P and NO12N2FP models only. Max. 50 kg	_	0	_	0	_	0
Scanner holder	0	0	0	0	0	0
Equipment holder (RAM mountings)	0	0	0	0	0	0
Wrapping holder	0	0	0	0	0	0
Load backrest	0	0	0	0	0	0
Rear grab handle on backrest	0	_	0	-	_	_
Foot switch for lowering the operator's platform	-	0	_	0	_	0
Sideways battery change	0	0	0	0	0	0
Clipboard, A4	0	0	0	0	0	0
Front storage boxes	0	_	0	-	0	_
Storage folder on bottom of the platform	_	_	0	_	0	_
Entry and exit rollers for crosswise pallet handling	0	0	0	0	-	_
Back cushion, tiltable to seat position for back & feet rest. Adjustable in height.	0	_	0	-	0	_
Power supply, 12 V	0	0	0	0	0	0
Power supply, USB 5 V	0	0	0	0	0	0
Heavy duty front nylon strip covered bumper	0	0	0	0	0	0
Raised front guard plate	0	0	0	0	0	0





1.1	Characteristics Manufacturer (abbreviation)			Cont. ift Touris	Cast life Touris
1.1	Manufacturer's model designation			Cat Lift Trucks	Cat Lift Trucks NO20N2P
1.2	-			NO20N2	
1.3	Power source: (battery, diesel, LP gas, petrol)			Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated	0	(1)	Stand-on	Stand-on
1.5	Load capacity	Q	(kg)	2000	2000
1.6	At load center	С	(mm)	600	600
1.8	Load distance	х	(mm)	960	960
1.9	Wheelbase	У	(mm)	2054	2054
	Weight				
2.1	Truck weight with load, with maximum battery weight		kg	3079*	3215*
2.2	Axle loadings with nominal load & maximum battery weight, drive/load side		kg	1082/1997	1130/2085
2.3	Axle loadings without load & with maximum battery weight, drive/load side		kg	829/250	913/302
	Wheels, Drive Train				
3.1	Tires: PT=Power Thane, Vul=Vulkollan, drive/load side			Vul/ Vul	Vul/ Vul
3.2	Tire dimensions, drive side		(mm)	ø250	ø250
3.3	Tire dimensions, load side		(mm)	ø85	ø85
3.4	Castor wheel dimensions (diameter x width)		(mm)	ø180x65	ø180x65
3.5	Number of wheels, load/drive side (x=driven)		(mm)	4/ 1x1	4/ 1x1
3.6	Track width (center of tires), drive side	b10	(mm)	494	494
3.7	Track width (center of tires), load side	b11	(mm)	365	365
	Dimensions				
4.2	Height	h1	(mm)	1173	1394/ 2244
4.4	Lift height	h3	(mm)	135	135
4.5	Height with mast extended	h4	(mm)	-	
4.8	Seat- or stand height	h7	(mm)	123	150
4.14	Platform height, raised	h12	(mm)	-	1000
4.15	Fork height, fully lowered	h13	(mm)	85	85
4.19	Overall length	11	(mm)	2421	2421
4.20	Length to fork face	12	(mm)	1271	1271
4.21	Overall width	b1/b2	(mm)	800	800
4.22	Fork dimensions (thickness, width, length)		(mm)	60/175/900-3600	60/175/900-3600
4.25	Outside width over forks (minimum/maximum)	b5	(mm)	480/ 660	480/660
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	(mm)	25	25
4.34	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	Ast	(mm)	2898	2898
4.35	Turning radius	Wa	(mm)	2231	2231
4.00	Performance	110	(11111)	ZZUI	2201
5.1	Travel speed, with/without load		km/h	9.0/9.0 (opt 9/13)	9.0/9.0 (opt 9/13)
5.2	Lifting speed, with/without load		m/s	0.04/0.05	0.04/0.05
5.3	Lowering speed, with/without load		m/s	0.05/0.03	0.05/0.03
5.7	Gradeability, with/without load		%	Jul-15	Jul-15
5.10	Service brake		70	Electric	Electric
3.10	Electric Motors			Electric	Electric
C 1			kW	2.6	2.6
6.1	Drive motor capacity (60 min. short duty)		kW		
6.2	Lift motor output at 15% duty factor		V /Ah	1.2	2.2
6.4	Battery voltage/capacity at 5-hour discharge			24/ 465-620	24/ 465-620
6.5	Battery weight		kg	366-493	366-493
6.6	Energy consumption according to EN 16796	k	(Wh/h	0.37	0.37
	Miscellaneous			Ot. I	Ot a la
8.1	Type of drive control			Stepless	Stepless
10.7	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ		dB(A)	62	62
10.7.1	g		dB(A)	73/62/-	73/62/-
Body	Whole-body vibration (EN 13 059:2002)			0.6	0.6
Hand	Hand-arm vibration (EN 13 059:2002)			<2.5	<2.5

^{*} Forks 540x1150, battery 620Ah **

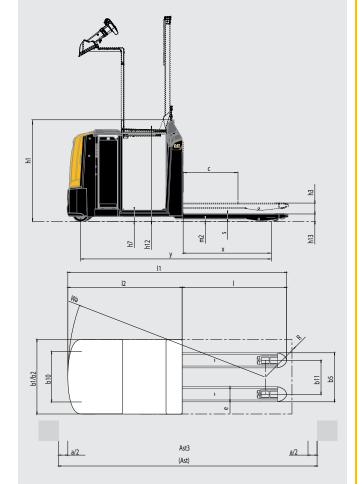


Wa = Turning radius

^{**} Forks 540x1150/ lift 1200mm, battery 620Ah

^{***} Inaccuracy of 4 dB(A)

1.1 Munificative indivination		Characteristics				
13 Pearle searce (Dellary, deepel (P. pear, petrol)	1.1	Manufacturer (abbreviation)			Cat Lift Trucks	Cat Lift Trucks
Sunction	1.2	Manufacturer's model designation			NO25N2	NO25N2P
1.5 Cold Copensity	1.3	Power source: (battery, diesel, LP gas, petrol)			Battery	Battery
1.5 A load creating	1.4	Operator type: pedestrian, (operator)-standing, -seated			Stand-on	Stand-on
18	1.5	Load capacity	Q	(kg)	2500	2500
Weight W	1.6	At load center	С	(mm)	600	600
The sequence of the sequence	1.8	Load distance	х	(mm)	960	960
1	1.9	Wheelbase	у	(mm)	2054	2054
22 Alle loadings with rammel load & maximum battery weight, drive/load side 3g 1737/201 12227/202		Weight				
Note Description Property Train Property Property Train Property Pro	2.1	Truck weight with load, with maximum battery weight		kg	3579*	3715*
Number of Verbor Trans, Mul-Mykollan, drive/fload side	2.2	Axle loadings with nominal load & maximum battery weight, drive/load side		kg	1178/2401	1223/2492
1	2.3	Axle loadings without load & with maximum battery weight, drive/load side		kg	829/250	913/302
12 Time dimensions, close aide (mm) 65 6250 6250 6250		Wheels, Drive Train				
13 1	3.1	Tires: PT=Power Thane, Vul=Vulkollan, drive/load side			Vul/ Vul	Vul/ Vul
Castor wheel dimensions (diameter x width)	3.2	Tire dimensions, drive side		(mm)	ø250	ø250
Number of Wheels, load drive side Lockriven	3.3	Tire dimensions, load side		(mm)	ø85	ø85
16.6 Track width (center of tires), (rive side 10.10 (mm) 365 365 365	3.4	Castor wheel dimensions (diameter x width)		(mm)	ø180x65	ø180x65
3.7 Track width (center of tries), load side	3.5	Number of wheels, load/drive side (x=driven)		(mm)	4/ 1x1	4/ 1x1
Dimensions Height Height Hi Imm 1173 1394/2244 144 Lift height Hi Height Hi Hi Imm 135 135 135 135 145 145 Height with mast extended Hi Imm	3.6	Track width (center of tires), drive side	b10	(mm)	494	494
4.2 Height	3.7	Track width (center of tires), load side	b11	(mm)	365	365
4.4 Lift height Lift height Lift height Lift height with mast extended 1.4 (mm)		Dimensions				
4.5 Height with mast extended	4.2	Height	h1	(mm)	1173	1394/ 2244
A.8 Seat- or stand height	4.4	Lift height	h3	(mm)	135	135
A.14 Partorm height, raised h12 (mm)	4.5	Height with mast extended	h4	(mm)	-	-
4.15 Fork height, fully lowered h13 (mm) (mm) (mm) (2421 2421 2421 (2421 4221 4221 (2421 4221 4221 (2421 4221 4221 (2421 4221 (2421 4221 (2421 4221 (2421	4.8	Seat- or stand height	h7	(mm)	123	150
4.15 Fork height, fully lowered h13 (mm) 85 85 85 84 1.15 (mm) 1.15 (mm) 1.271 1.2	4.14	Platform height, raised	h12	(mm)	-	1000
Length to fork face 12 (mm) 1271 127	4.15	Fork height, fully lowered	h13	(mm)	85	85
4.20 Length to fork face 12 Cmm 1271 12	4.19	Overall length	l1	(mm)	2421	2421
4.21 Overall width Over forks (minimum/maximum) S / e / l (mm) 60/175/900-36000 60/175/900-36000 480 / 660 480 / 600 / 60 / 60 / 60 / 60 / 60 / 60 /	4.20	Length to fork face	12	(mm)		
4.25 Outside width over forks (minimum/maximum) b5 (mm) 480/ 660 480/ 660 480/ 660 432 670 6	4.21	Overall width	b1/b2	(mm)	800	800
4.32 Ground clearance at center of wheelbase, (forks lowered) m2 (mm) 25 25 4.34 Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise Ast (mm) 2898 2898 4.35 Turning radius Wa (mm) 2231 2231	4.22	Fork dimensions (thickness, width, length)	s/e/I (mm)	60/175/900-3600	60/175/900-3600
Ast Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	4.25	Outside width over forks (minimum/maximum)	b5	(mm)	480/ 660	480/660
4.34 Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	(mm)	25	25
A 35 Turning radius	4.34		Ast	(mm)	2898	2898
Performance	4.35		Wa	(mm)	2231	2231
5.2 Lifting speed, with/without load m/s 0.03/0.05 0.03/0.05 5.3 Lowering speed, with/without load m/s 0.05/0.03 0.05/0.03 5.7 Gradeability, with/without load % Jul-15 Jul-15 5.10 Service brake Electric Electric Electric Electric Motors 6.1 Drive motor capacity (60 min. short duty) kW 2.6 2.6 6.2 Lift motor output at 15% duty factor kW 1.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V /Ah 24/ 465-620 24/ 465-620 6.5 Battery weight kg 366-493 366-493 6.6 Energy consumption according to EN 16796 kWh/h 0.4 0.4 Miscellaneous 8.1 Type of drive control Stepless Stepless 10.7 Level of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73/62/- 73		-				
5.3 Lowering speed, with/without load m/s 0.05/0.03 0.05/0.03 0.05/0.03 5.7 Gradeability, with/without load % Jul-15 Jul-15 5.10 Service brake Electric Electric Electric Electric Motors	5.1	Travel speed, with/without load		km/h	9.0/13.0	9.0/13.0
5.7 Gradeability, with/without load % Jul-15 Electric Electric Electric Electric Motors 6.1 Drive motor capacity (60 min. short duty)	5.2	Lifting speed, with/without load		m/s	0.03/0.05	0.03/0.05
Electric Electric Electric Electric Electric	5.3	Lowering speed, with/without load		m/s	0.05/0.03	0.05/0.03
Electric Motors	5.7	Gradeability, with/without load		%	Jul-15	Jul-15
Column C	5.10	Service brake			Electric	Electric
6.2 Lift motor output at 15% duty factor kW 1.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V/Ah 24/ 465-620 24/ 465-620 366-493 366-493 366-493 366-493 366-493 366-493 366-493 366-893 366-493 366-493 366-493 366-493 366-493 366-493 366-493 366-893 366-493 366-		Electric Motors				
Battery voltage/capacity at 5-hour discharge	6.1	Drive motor capacity (60 min. short duty)		kW	2.6	2.6
Battery weight kg 366-493 366-493 366-493	6.2	Lift motor output at 15% duty factor		kW	1.2	2.2
Energy consumption according to EN 16796 kWh/h 0.4 0.4	6.4	Battery voltage/capacity at 5-hour discharge	١	V/Ah	24/ 465-620	24/ 465-620
Miscellaneous 8.1 Type of drive control Stepless Stepless 10.7 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73/62/- 73/62/- Body Whole-body vibration (EN 13 059:2002) 0.6 0.6 0.6	6.5	Battery weight		kg	366-493	366-493
8.1 Type of drive control Stepless Stepless 10.7 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73/62/- 73/62/- Body Whole-body vibration (EN 13 059:2002) 0.6 0.6			k\		0.4	0.4
10.7 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73/62/- 73/62/- Body Whole-body vibration (EN 13 059:2002) 0.6 0.6		Miscellaneous				
10.7.1 Body Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73/62/- 73/62/- Whole-body vibration (EN 13 059:2002) 0.6 0.6	8.1	Type of drive control			Stepless	Stepless
Body Whole-body vibration (EN 13 059:2002) 0.6 0.6	10.7	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ	(dB(A)	62	62
	10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ		dB(A)	73/62/-	73/62/-
Hand Hand-arm vibration (EN 13 059:2002) <2.5 <2.5	Body	Whole-body vibration (EN 13 059:2002)			0.6	0.6
	Hand	Hand-arm vibration (EN 13 059:2002)			<2.5	<2.5



NO20/25N2: Standard model (NO20/25N2P: With rising platform)

Ast = Wa-x+I6+200

Ast = Working aisle width

Wa = Turning radius

^{*} Forks 540x1150, battery 620Ah

^{**} Forks 540x1150/ lift 1200mm, battery 620Ah

^{***} Inaccuracy of 4 dB(A)

1.1 Manufacture inhorievariem		Characteristics			
1.2 Montacure model designation	1.1			Cat Lift Trucks	Cat Lift Trucks
1.3 Pace source faultry, Genet P gas, perior)		·			
1.8 Description procession, operated standing, second C G G D D D D D D D D		S .			
1.5 Load capasar's				·	
16 All food scenare			0 (ka)		
18 Uncel destance	_		. 0.		
Merchanism					
Track verigit with lead, with macarism battery weight, disverlead side 10	-				
2	1.9		y (IIIII)	1929	1929
22 Ale leadings with roundinal band & maximum battery weight, drive/load side 1g 1g8/1487 3g 3g 3g 3g 3g 3g 3g 3	2.1	-	ka	2420**	2550**
		- · · ·	-		
Wheels. Drive Train Train Prince Three Vel - Vel					
1	2.3		ky	853/30/	940/416
12 Text definencians, divide saide (mm) 65 65 65	2.1			AND	V64/V64
1			(mm)		
3.4 or skort wheel dimensions (dimenter x width) (mm) al 80x65 = 180x65 = 180x65 3.5 Track width (centre of tries), load side b10 (mm) 4.94 4.94 4.94 3.7 Track width (centre of tries), load side b10 (mm) 4.94 4.94 4.94 2.7 Height with (centre of tries), load side b11 (mm) 4.94 4.94 4.94 4.2 Height h1 (mm) 4.93 3.55 3.55 3.55 4.2 Height h1 (mm) 7.87 1.173 1.984/2244 4.94 <td< td=""><td></td><td>·</td><td></td><td></td><td></td></td<>		·			
Number of Wheels, load drive side (northeen) (mm) (mm) (4) full (4)		·	1 1		
3.6 Tack width (center of tires), linke side b10 (mm) 494 494 3.7 Took width (center of tires), linke width (center of tires), load side b11 (mm) 355 355 4.2 Height Height h1 (mm) 1173 1394/2244 4.2 Height with sextended h1 (mm) 167 (mm) 1275/1655 1275/165 4.5 Begint with sextended h1 (mm) 1177 (mm) 1275/1655 1275/165 4.14 Platform height, raised h12 (mm) h12 (mm) 85 85 4.15 For k-leight, fully lowered h13 (mm) 85 85 85 4.10 Under the height, raised h12 (mm) 85 85 85 4.10 Under the height, fully lowered h13 (mm) 85 85 85 4.11 (mm) b1/12 (mm) 85 85 85 4.12 (breat with contract of the height, suith swith					
Table Tabl					
Dimensions Height Height					
4.2 Height	3.7		b11 (mm)	355	355
4.4 Lift height Lift height Lift height with mast extended 1.4 Lift height with with with with extended 1.4 Lift height with mast extended 1.4 Lift height with mast extended 1.4 Lift height with with with with with with with wi					
4.5 Height with mast extended		<u>s</u>			***
## Seat- or stand height		-			
A14 Platform height, raised h12 (mm)		Height with mast extended	. ,	1275/ 1625	1275/ 1625
A15 Fork height, fully lowered	4.8	Seat- or stand height		123	150
4.19 Verrall length 11 (mm) 2471	4.14	Platform height, raised		-	1000
Length to fork face 12	4.15	Fork height, fully lowered	h13 (mm)	85	85
A21 Overall width	4.19	Overall length		2471	2471
4.22 Fork dimensions (thickness, width, length) S / e / 1 (mm) 56/186/950-1450 56/186/950-1450	4.20	Length to fork face	l2 (mm)	1321	1321
4.25 Outside width over forks (minimum/maximum) b5 (mm) 540/570 540/570 540/570	4.21	Overall width	b1/b2 (mm)	800	800
4.32 Ground clearance at center of wheelbase, (forks lowered) m2 (mm) 25 25 4.34 Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise Ast (mm) 2881 2881 4.35 Turning radius Wa (mm) 2106 2106 Performance 5.1 Tavel speed, with/without load km/h 9.0/9.0 (opt 9/13) 9.0/9.0 (opt 9/13) 5.2 Lifting speed, with/without load m/s 0.20/0.41 0.20/0.41 5.3 Lowering speed, with/without load m/s 0.30/0.36 0.30/0.36 5.7 Gradeability, with/without load % Jul-15 Jul-15 5.10 Service brake Electric Electric Electric Electric Motors 6.1 Drive motor capacity (60 min. short duty) kW 2.6 2.6 6.2 Lift motor output at 15% duty factor kW 2.2 2.2 6.4 Battery weight kg 366-493 366-493 6.6 Energy consumption according to EN 16796 kWh/h 0.37 0.37 Miscellaneous	4.22	Fork dimensions (thickness, width, length)	s/e/I (mm)	56/186/950-1450	56/186/950-1450
4.34 Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	4.25	Outside width over forks (minimum/maximum)	b5 (mm)	540/ 570	540/ 570
A.35 Turning radius	4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 (mm)	25	25
Performance	4.34	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	Ast (mm)	2881	2881
5.1 Travel speed, with/without load km/h 9.0/9.0 (opt 9/13) 9.0/9.0 (opt 9/13) 5.2 Lifting speed, with/without load m/s 0.20/0.41 0.20/0.41 0.20/0.41 5.3 Lowering speed, with/without load m/s 0.30/0.36 0.30/0.36 0.30/0.36 5.7 Stevice brake Besvice brake Jul-15 Jul-15 Jul-15 Electric Motors 6.1 Drive motor capacity (60 min. short duty) kW 2.6 2.6 6.2 Lift motor output at 15% duty factor kW 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V/Ah 24/465-620 24/465-620 6.5 Battery weight kg 366-493 366-493 6.6 Energy consumption according to EN 16796 kWh/h 0.37 0.37 Miscellaneous 8.1 Type of drive control Stepless Stepless 1.7 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ dBIA) 73/62/- 73/62/-	4.35	Turning radius	Wa (mm)	2106	2106
5.2 Lifting speed, with/without load m/s 0.20/0.41 0.20/0.41 0.20/0.41 5.3 Lowering speed, with/without load m/s 0.30/0.36 0.30/0.36 5.7 Gradeability, with/without load % Jul-15 Jul-15 5.10 Service brake Electric Electric Electric Motors 6.1 Drive motor capacity (60 min. short duty) kW 2.6 2.6 6.2 Lift motor output at 15% duty factor kW 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V /Ah 24/ 465-620 24/ 465-620 6.5 Battery weight kg 366-493 366-493 6.6 Energy consumption according to EN 16796 kWh/h 0.37 0.37 Miscellaneous 8.1 Type of drive control Stepless Stepless 1.0 Level of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871 in work LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73/62/- 73/62/- </td <td></td> <td>Performance</td> <td></td> <td></td> <td></td>		Performance			
5.2 Lifting speed, with/without load m/s 0.20/0.41 0.20/0.41 0.20/0.41 5.3 Lowering speed, with/without load m/s 0.30/0.36 0.30/0.36 0.30/0.36 5.7 Gradeability, with/without load % Jul-15 Jul-15 Jul-15 5.10 Service brake Electric Electric Electric Electric Motors 6.1 Drive motor capacity (60 min. short duty) kW 2.6 2.6 6.2 Lift motor output at 15% duty factor kW 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V /Ah 24/ 465-620 24/ 465-620 6.5 Battery weight kg 366-493 366-493 6.6 Energy consumption according to EN 16796 kWh/h 0.37 0.37 Miscellaneous 8.1 Type of drive control Stepless Stepless 1.07 Level of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871 in work LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871, drive/lift/idle L	5.1	Travel speed, with/without load	km/h	9.0/9.0 (opt 9/13)	9.0/9.0 (opt 9/13)
5.3 Lowering speed, with/without load m/s 0.30/0.36 0.30/0.36 0.30/0.36 5.7 Gradeability, with/without load % Jul-15 Jul-15 Jul-15 5.10 Service brake Electric Electric Electric Electric Motors 6.1 Drive motor capacity (60 min. short duty) kW 2.6 2.6 6.2 Lift motor output at 15% duty factor kW 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V/Ah 24/ 465-620 24/ 465-620 6.5 Battery weight kg 366-493 366-493 6.6 Energy consumption according to EN 16796 kWh/h 0.37 0.37 Miscellaneous 8.1 Type of drive control Stepless Stepless 1.07 Level of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871 in work LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871, drive/litf/idle LpAZ dB(A) 73/62/- 73/62/- 10.6 Whole-body vibration (EN 13 059-2002) 0.6	5.2	·	m/s	0.20/0.41	0.20/0.41
5.7 Gradeability, with/without load % Jul-15 Jul-15 5.10 Service brake Electric Electric Electric Electric Motors 6.1 Drive motor capacity (60 min. short duty) kW 2.6 2.6 6.2 Lift motor output at 15% duty factor kW 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V/Ah 24/ 465-620 24/ 465-620 6.5 Battery weight kg 366-493 366-493 6.6 Energy consumption according to EN 16796 kWh/h 0.37 0.37 Miscellaneous 8.1 Type of drive control Stepless Stepless 1.07 Level of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73/62/- 73/62/- Body Whole-body vibration (EN 13 059-2002) 0.6 0.6 0.6			m/s	0.30/0.36	
Electric Motors			%		Jul-15
Electric Motors					
6.1 Drive motor capacity (60 min. short duty) kW 2.6 2.6 6.2 Lift motor output at 15% duty factor kW 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V/Ah 24/465-620 24/465-620 6.5 Battery weight kg 366-493 366-493 6.6 Energy consumption according to EN 16796 kWh/h 0.37 0.37 Miscellaneous 8.1 Type of drive control Stepless Stepless 10.7 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73/62/- 73/62/- Body Whole-body vibration (EN 13 059:2002) 0.6 0.6 0.6	0.110			Elocito	Liberio
6.2 Lift motor output at 15% duty factor	6.1		kW	26	2.6
6.4 Battery voltage/capacity at 5-hour discharge V/Ah 6.5 Battery weight kg 366-493 366-493 6.6 Energy consumption according to EN 16796 kWh/h Whole-body vibration (EN 13 059-2002) V/Ah 6.5 Battery weight kg 366-493 366-493 Stepless 366-493 Stepless Stepless Stepless BATTON 12 Used of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) Whole-body vibration (EN 13 059-2002) Word 12 Used of noise at the ear level of the driver according to EN 12 053-2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) Whole-body vibration (EN 13 059-2002) 0.6 0.6					
Battery weight kg 366-493 36					
6.6 Energy consumption according to EN 16796 kWh/h 0.37 0.37					
Stepless Stepless		, -			
8.1 Type of drive control Stepless Stepless 10.7 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73/62/- 73/62/- Body Whole-body vibration (EN 13 059:2002) 0.6 0.6	0.0		KVVII/II	0.37	0.37
10.7 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ dB(A) 62 62 10.7.1 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ dB(A) 73/62/- 73/62/- Body Whole-body vibration (EN 13 059:2002) 0.6 0.6	0.1			Stenless	Stenless
10.7.1 Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/ridle LpAZ dB(A) 73/62/- Body Whole-body vibration (EN 13 059:2002) 0.6 0.6			AD(A)	·	
Body Whole-body vibration (EN 13 059:2002) 0.6 0.6		-			
		9	UD(A)		
Haliu Hano-arm vioration (EN 13 U55:2002) <2.5 <2.5		, , , , , , , , , , , , , , , , , , , ,			
* Forks 540v1150 hattery 620Ah				<2.5	<2.5

⁴ m2 Ast3 NO12N2F: With rising forks (NO12N2FP: With rising forks and platform) Ast = Wa-x+I6+200 Ast = Working aisle width Wa = Turning radius

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^{*} Forks 540x1150, battery 620Ah

^{**} Forks 540x1150/ lift 1200mm, battery 620Ah

^{***} Inaccuracy of 4 dB(A)