



## UniCarriers Manufacturing Sweden AB



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### Order pickers

**PP**  
Low-level order picker

**PPL**

Lift capacity 2000/2500 kg

**PPD**

Lift capacity 2000/2500 kg

**PPF**

Lift capacity 1200 kg  
Lift height 0.95 metres

**PPC**

Lift capacity 1200 kg  
Lift height 0.95 metres

**PPS**

Lift capacity 2000 kg  
Lift height 0.9 metres



**OP**  
High-level order picker

**OPM**

Lift capacity 1000 kg  
Lift height up to 2.9 metres

**OPH**

Lift capacity 1000 kg  
Lift height up to 5.3 metres

**OPC**

Lift capacity 1000 kg  
Lift height up to 6.2 metres

**OPS**

Lift capacity 1000 kg  
Lift height up to 8.25 metres



	0	Specification		PPL 200 JN	PPD 200 JN		
Distinguishing mark	1.2	Manufacturer's type designation					
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric		
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Hand	Hand		
	1.5	Load capacity/rated load	Q	t	2,0	2,0	
	1.6	Load centre distance	c	mm	600	600	
	1.8	Load distance, centre of load axle to fork	X		975 - 1465	975 - 1465	
	1.9	Wheelbase	y	mm	1170 + x	1251 + x	
	Weight	2.1	Service weight incl battery		kg	1090	1125*
		2.2	Axle load, with load, front/rear		kg		
2.3		Axle load, without load, front / rear		kg	1070 / 2045	1100 / 2050	
2.4		Axle load, fork outreached with load, front / rear		kg	795 / 295	825 / 300	
2.5		Axle load, fork retracted with load, front / rear		kg			
Tyres, chassis	3.1	Tyres			Vulcollan	Vulcollan	
	3.2	Tyre size, drive side		mm	Ø 230x90	Ø 230x90	
	3.3	Tyre size, load side		mm	Ø 85x70	Ø 85x70	
	3.4	Dimensions additional wheels (castor wheels)		mm	Ø 150x55	Ø 150x55	
	3.5	Wheels, number front/rear (drive side/load side, x = driven wheels)			1x 1/4	1x 1/4	
	3.6	Track, drive side	b10	mm	500	500	
	3.7	Track, load side	b11	mm	V-175	V-175	
Dimensions	4.1	Tilt of mast/fork carriage, forward/backward		Grad			
	4.2	Height, mast lowered	h1	mm			
	4.3	Free lift	h2	mm			
	4.4	Lift height H = h1+h3	H	mm	230	230	
	4.5	Height, mast extended	h4	mm			
	4.6	Straddle lift	h5	mm			
	4.7	Height of overhead guard (cabin)	h6	mm			
	4.8	Seat height/stand height	h7	mm	123 - 146	123 - 146	
	4.10	Height of wheel arms	h8	mm			
	4.11	Additional lift	h9	mm			
	4.14	Stand height, elevated	h12	mm			
	4.15	Height lowered	h13	mm	85	85	
	4.19	Overall length	l1	mm	1349 + l	1430 + l	
	4.20	Length to face of forks	l2	mm	1349	1430	
	4.21	Overall width	b1	mm	790	790	
	4.21.1	Width over stabilizers		mm			
	4.22	Fork dimensions	s/e/l	mm	55 / 175 / 1150-2375	55 / 175 / 1150-2375	
	4.23	Fork carriage to ISO 2328, clas / form A, B					
	4.24	Width of fork carriage	b3	mm			
	4.25	Width over forks, min/max	b5	mm	480 / 680	480 / 680	
	4.26	Distance between wheel arms	b4	mm	V-350	V-350	
	4.27	Width across guide rolls	b6	mm			
	4.28	Reach distance	l4	mm			
	4.29	Reach lateral	b7	mm			
	4.30	Reach lateral from vehicle centerline	b8	mm			
	4.31	Ground clearance, mast	m1	mm			
	4.32	Ground clearance, centre of wheelbase	m2	mm	55	55	
4.33	Aisle width with pallet 1000 x 1200, crosswise	Ast	mm	2630	2630		
4.34	Aisle width for pallet 800 x 1200, lengthwise	Ast	mm	2830	2830		
	Transfer aisle	0	mm				
4.35	Turning radius	Wa	mm	1349 + x	1430 + x		
4.37	Length incl reach legs	l7	mm				
4.38	Distance to swivelling-fork pivot	0	mm				
Performance data	5.1	Travel speed, with/without load		km/h	10,0 / 12,0	10,0 / 12,0	
	5.1.1	Travel speed with/without load, backwards		km/h			
	5.2	Lift speed, with/without load		m/s	0,06 / 0,07	0,06 / 0,07	
	5.3	Lowering speed, with/without load		m/s	0,052 / 0,055	0,052 / 0,055	
	5.4	Reach speed, with / without load		m/s			
	5.7	Gradient, with/without load		%	7 / 15	7 / 15	
	5.8	Max gradeability, with / without load, 5 min rating		%			
	5.9	Acceleration time 0-10 m, with/without load		s			
	5.10	Service brake: electric, hydraulic			Electric	Electric	
	5.10.1	Parking brake: electric, hydraulic			Electric	Electric	
Electric engine	6.1	Drive motor, rating S2 60 min		kW	2,2 AC	2,2 AC	
	6.2	Lift motor		kW	2,2	2,2	
	6.3	Battery according to DIN 43531/35/36	A,B,C				
	6.4	Battery voltage / Battery capacity		V/Ah	24 / 300-400	24 / 300-600	
	6.5	Battery weight		kg	425	460*	
	6.6	Power consumption according to VDI cycle		kWh/h			
Additional data	8.1	Speed regulation			AC Transistor	AC Transistor	
	10.1	Operating pressure attachments		bar	160	160	
	10.2	Oil flow for attachments		l/min			
	10.7	Noise level at operator's ear, according to EN 12 053		db(A)			

	Specification		PPD 250 SN	PPF JN		
Distinguishing mark	1.2	Manufacturer's type designation				
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric		
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated		
	1.5	Load capacity/rated load	Q t	2,5	1,2	
	1.6	Load centre distance	c mm	600	600	
	1.8	Load distance, centre of load axle to fork	X	975 - 1465	650-1050	
	1.9	Wheelbase	y mm	1170 + x	1277 + x	
	Weight	2.1	Service weight incl battery		1090	1265
		2.2	Axle load, with load, front/rear			
2.3		Axle load, without load, front / rear		1070 / 2045	940 / 1470	
2.4		Axle load, fork outreached with load, front / rear		795 / 295	850 / 415	
2.5		Axle load, fork retracted with load, front / rear				
Tyres, chassis	3.1	Tyres		Vulcollan	Vulcollan	
	3.2	Tyre size, drive side		Ø 230x90	Ø 230x90	
	3.3	Tyre size, load side		Ø 85x70	Ø 85x70	
	3.4	Dimensions additional wheels (castor wheels)		Ø 150x55	Ø 150x55	
	3.5	Wheels, number front/rear (drive side/load side, x = driven wheels)		1x 1/4	1x 1/4	
	3.6	Track, drive side	b10 mm	500	500	
	3.7	Track, load side	b11 mm	V-175	V-170	
Dimensions	4.1	Tilt of mast/fork carriage, forward/backward				
	4.2	Height, mast lowered	h1 mm		1502	
	4.3	Free lift	h2 mm			
	4.4	Lift height H = h13+h3	H mm		950	
	4.5	Height, mast extended	h4 mm	230	1502	
	4.6	Straddle lift	h5 mm			
	4.7	Height of overhead guard (cabin)	h6 mm			
	4.8	Seat height/stand height	h7 mm	123 - 146	123 - 146	
	4.10	Height of wheel arms	h8 mm		80	
	4.11	Additional lift	h9 mm			
	4.14	Stand height, elevated	h12 mm			
	4.15	Height lowered	h13 mm	85	85	
	4.19	Overall length	l1 mm	1349 + l	1455 + l	
	4.20	Length to face of forks	l2 mm	1349	1455	
	4.21	Overall width	b1 mm	790	790	
	4.21.1	Width over stabilizers				
	4.22	Fork dimensions	s/e/l mm	55/175/1150-2375	65 / 170-175 /1000-2165	
	4.23	Fork carriage to ISO 2328, clas / form A, B				
	4.24	Width of fork carriage	b3 mm			
	4.25	Width over forks, min/max	b5 mm	480 / 680	540 / 700	
	4.26	Distance between wheel arms	b4 mm	V-350	V-340/350	
	4.27	Width across guide rolls	b6 mm			
	4.28	Reach distance	l4 mm			
	4.29	Reach lateral	b7 mm			
	4.30	Reach lateral from vehicle centerline	b8 mm			
	4.31	Ground clearance, mast	m1 mm			
	4.32	Ground clearance, centre of wheelbase	m2 mm	55	30	
	4.33	Aisle width with pallet 1000 x 1200, crosswise	Ast mm	2630	3081	
	4.34	Aisle width for pallet 800 x 1200, lengthwise	Ast mm	2830	3102	
		Transfer aisle	0 mm			
	4.35	Turning radius	Wa mm	1349 + x	1455 + x	
4.37	Length incl reach legs	l7 mm				
4.38	Distance to swivelling-fork pivot	0 mm				
Performance data	5.1	Travel speed, with/without load		9,5 / 12,0	10,5 / 12,0	
	5.1.1	Travel speed with/without load, backwards				
	5.2	Lift speed, with/without load		0,045 / 0,07	0,13 / 0,22	
	5.3	Lowering speed, with/without load		0,052 / 0,055	0,11 / 0,01	
	5.4	Reach speed, with / without load				
	5.7	Gradient, with/without load		7 / 15	9 / 15	
	5.8	Max gradeability, with / without load, 5 min rating				
	5.9	Acceleration time 0-10 m, with/without load				
	5.10	Service brake: electric, hydraulic		Electric	Electric	
	5.10.1	Parking brake: electric, hydraulic		Electric	Electric	
Electric engine	6.1	Drive motor, rating S2 60 min		kW	2,2 AC	
	6.2	Lift motor		kW	2,2	
	6.3	Battery according to DIN 43531/35/36		A,B,C		
	6.4	Battery voltage / Battery capacity		V/Ah	24 / 300-400	
	6.5	Battery weight		kg	425	
	6.6	Power consumption according to VDI cycle		kWh/h		
Additional data	8.1	Speed regulation		AC transistor	AC Transistor	
	10.1	Operating pressure attachments		bar	160	
	10.2	Oil flow for attachments		l/min		
	10.7	Noise level at operator's ear, according to EN 12 053		db(A)		

Distinguishing mark	0	Specification			PPC JN
	1.2	Manufacturer's type designation			
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas			Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker			Hand
	1.5	Load capacity/rated load	Q	t	1,2
	1.6	Load centre distance	c	mm	600
	1.8	Load distance, centre of load axle to fork	X		650 - 1050
	1.9	Wheelbase	y	mm	1277 + x
	Weight	2.1	Service weight incl battery		kg
2.2		Axle load, with load, front/rear		kg	
2.3		Axle load, without load, front / rear		kg	940 / 1470
2.4		Axle load, fork outreached with load, front / rear		kg	850 / 415
2.5		Axle load, fork retracted with load, front / rear		kg	
Tyres, chassis	3.1	Tyres			Vulcollan
	3.2	Tyre size, drive side		mm	Ø 230x90
	3.3	Tyre size, load side		mm	Ø 85x70
	3.4	Dimensions additional wheels (castor wheels)		mm	Ø 150x55
	3.5	Wheels, number front/rear (drive side/load side, x = driven wheels)			1x 1/4
	3.6	Track, drive side	b10	mm	
	3.7	Track, load side	b11	mm	
Dimensions	4.1	Tilt of mast/fork carriage, forward/backward		Grad	
	4.2	Height, mast lowered	h1	mm	
	4.3	Free lift	h2	mm	
	4.4	Lift height H = h1+h3	H	mm	950
	4.5	Height, mast extended	h4	mm	1502
	4.6	Straddle lift	h5	mm	
	4.7	Height of overhead guard (cabin)	h6	mm	
	4.8	Seat height/stand height	h7	mm	123 - 146
	4.10	Height of wheel arms	h8	mm	80
	4.11	Additional lift	h9	mm	
	4.14	Stand height, elevated	h12	mm	
	4.15	Height lowered	h13	mm	85
	4.19	Overall length	l1	mm	1455 + l
	4.20	Length to face of forks	l2	mm	1455
	4.21	Overall width	b1	mm	790
	4.21.1	Width over stabilizers		mm	
	4.22	Fork dimensions	s/e/l	mm	65 / 170-175 / 1000-2165
	4.23	Fork carriage to ISO 2328, clas / form A, B			
	4.24	Width of fork carriage	b3	mm	
	4.25	Width over forks, min/max	b5	mm	540 / 700
	4.26	Distance between wheel arms	b4	mm	V-340/350
	4.27	Width across guide rolls	b6	mm	
	4.28	Reach distance	l4	mm	
	4.29	Reach lateral	b7	mm	
	4.30	Reach lateral from vehicle centerline	b8	mm	
	4.31	Ground clearance, mast	m1	mm	
	4.32	Ground clearance, centre of wheelbase	m2	mm	30
	4.33	Aisle width with pallet 1000 x 1200, crosswise	Ast	mm	3081
4.34	Aisle width for pallet 800 x 1200, lengthwise	Ast	mm	3102	
	Transfer aisle	0	mm		
4.35	Turning radius	Wa	mm	1455 + x	
4.37	Length incl reach legs	l7	mm		
4.38	Distance to swivelling-fork pivot	0	mm		
Performance data	5.1	Travel speed, with/without load		km/h	10,5 / 12,0
	5.1.1	Travel speed with/without load, backwards		km/h	
	5.2	Lift speed, with/without load		m/s	0,13 / 0,22
	5.3	Lowering speed, with/without load		m/s	0,11 / 0,01
	5.4	Reach speed, with / without load		m/s	
	5.7	Gradient, with/without load		%	9 / 15
	5.8	Max gradeability, with / without load, 5 min rating		%	
	5.9	Acceleration time 0-10 m, with/without load		s	
	5.10	Service brake: electric, hydraulic			Electric
	5.10.1	Parking brake: electric, hydraulic			Electric
Electric engine	6.1	Drive motor, rating S2 60 min		kW	2,2 AC
	6.2	Lift motor		kW	2,2
	6.3	Battery according to DIN 43531/35/36	A,B,C		
	6.4	Battery voltage / Battery capacity		V/Ah	24 / 300-400
	6.5	Battery weight		kg	393
	6.6	Power consumption according to VDI cycle		kWh/h	
Additional data	8.1	Speed regulation			AC Transistor
	10.1	Operating pressure attachments		bar	160
	10.2	Oil flow for attachments		l/min	
	10.7	Noise level at operator's ear, according to EN 12 053		db(A)	

Lift capacities	0	Specification			OPC DTFV
	0a	Straddle leg position			
	1	Lift capacity	Q	kg	1000
	1a	Load centre	D	mm	400 - 600
	2	Lift height	H4	mm	See table
	2a	Mast height	H3/H5	mm	See table
	2b	Transport free lift	H2 TV mast	mm	
	2c	Full free lift	H2 DT mast	mm	H4/3+195
	2d	Straddle lift		mm	
	3	Mast tilt. Forward - backward			
	3a	Tilting forks. Forward - backward			
	4	Lift speed. Without load - with load		m/s	0,26 - 0,20
	4a	Lift time. Without load - with load		s	
	4b	Lift speed, ergolift. Without load - with load		m/s	
	Drive capacities	5	Lowering speed. Without load - with load		m/s
5a		Lowering time. Without load - with load		s	
6		Drive speed. Without load - with load		km/h	9 - 8
6a		Drive speed. Without load - with load		m/s	
		Acceleration 0-10 m			
		Without load - with load		s	
8		Gradient, without load / with load	max	%	5 / 5
10		Turning radius	R2	mm	2024
11		Smallest practical stacking aisle incl 200 mm play			
		Load length 1200 mm	Ast	mm	3549
		Load length 1000 mm	Ast	mm	3349
		Load length 800 mm	Ast	mm	3149
		Aisle width requirement according to BITA GN9 UK market only	A1	mm	
			A2	mm	
			A3	mm	
	Smallest practical stacking aisle with pallet LL 1200 with the platform folded up/folded down	Min	mm		
11a	Intersecting aisle width. Load length 1200 mm	Min	mm	3550	
11c	Max load length	LL	mm		
11d	Max load width	LB	mm		
Truck measurements	13	Height of overhead guard	H6	mm	2311
	13a	Height of driver seat	H7	mm	
	13b	Step-in height	Y1	mm	255
	13c	Floor height		mm	
	13d	Width of open gate		mm	
	14	Truck length	L	mm	2040
	15	Truck width	B	mm	1070
	15a	Width over guide wheels	A	mm	
	15b	Width over stabilisers	S	mm	
	15c	Platform length		mm	730
	15d	Platform width	B3	mm	
	15e	Height of platform gates		mm	
	16	Fork length	L1	mm	800/1000/1150
	17	Width over forks	V max/min	mm	560
	17a	Width between forks		mm	
	18	Reach length	U	mm	
	19	Distance from back plate to retracted fork heel	L4 T-mast	mm	
		Distance from back plate to retracted fork heel	L4 DT-mast	mm	2159
	20	Fork arm, width - thickness	B1	mm	147 - 85
	20a	Fork height, lowered, max	H1	mm	
	21	Straddle height	H8	mm	175
	22	Width between straddles	B2	mm	770
	22a	Width over straddles		mm	1070
	23	Distance between front axle and retracted fork heel	L2	mm	204
	23a	Distance between front axle and centre of attachment	L2	mm	
	23b	Distance between front axle and heel of extended fork	X1	mm	
24	Axle distance	L3	mm	1695	
25	Wheel track, front rear (centre lines wheels)		mm	920 - 0	
26	Ground clearance at half axle distance		mm	25	
Weights	27	Total weight with-without battery.		kg	2630 / 2150 *
	28	Max axle pressure, fork side, without/ with classified load		kg	1210 / 2640
	29	Max axle load, drive side, without/with classified load		kg	1420 / 990
	30	Max wheel point loading, without/with classified load		MPa	
Motors	39	Battery capacity		kWh/Ah	7,9-18,0 / 330-750
	39a	Battery voltage		V	24
	41	Drive motor		kW	2,1
	42	Speed regulation			Transistor
	43	Lift motor. Output/Interm. conn.time		kW-%/min	6,8 - 12/10
43a	Hydraulic pressure		MPa	17,5	
Steering/brake system	44	Wheel type, drive wheel/others			Vulcollan
	44a	Number of wheels, drive/castor - load wheels			1 - 4
	45	Wheel dimensions			
	45a	Load wheels - diameter x width		mm	(4) x 150x60
	45b	Drive wheel - diameter x width		mm	(1) x 250x100
	45c	Castor wheels - diameter x width		mm	
	46	Steering			El.servo, miniwheel
47	Service brake - Type-acting on			El. - drive motor	
48	Parking brake - Type-acting on.			El. - drive motor	