

TECHNICAL SPECIFICATIONS

LO12-25N2(P)(F)(X)



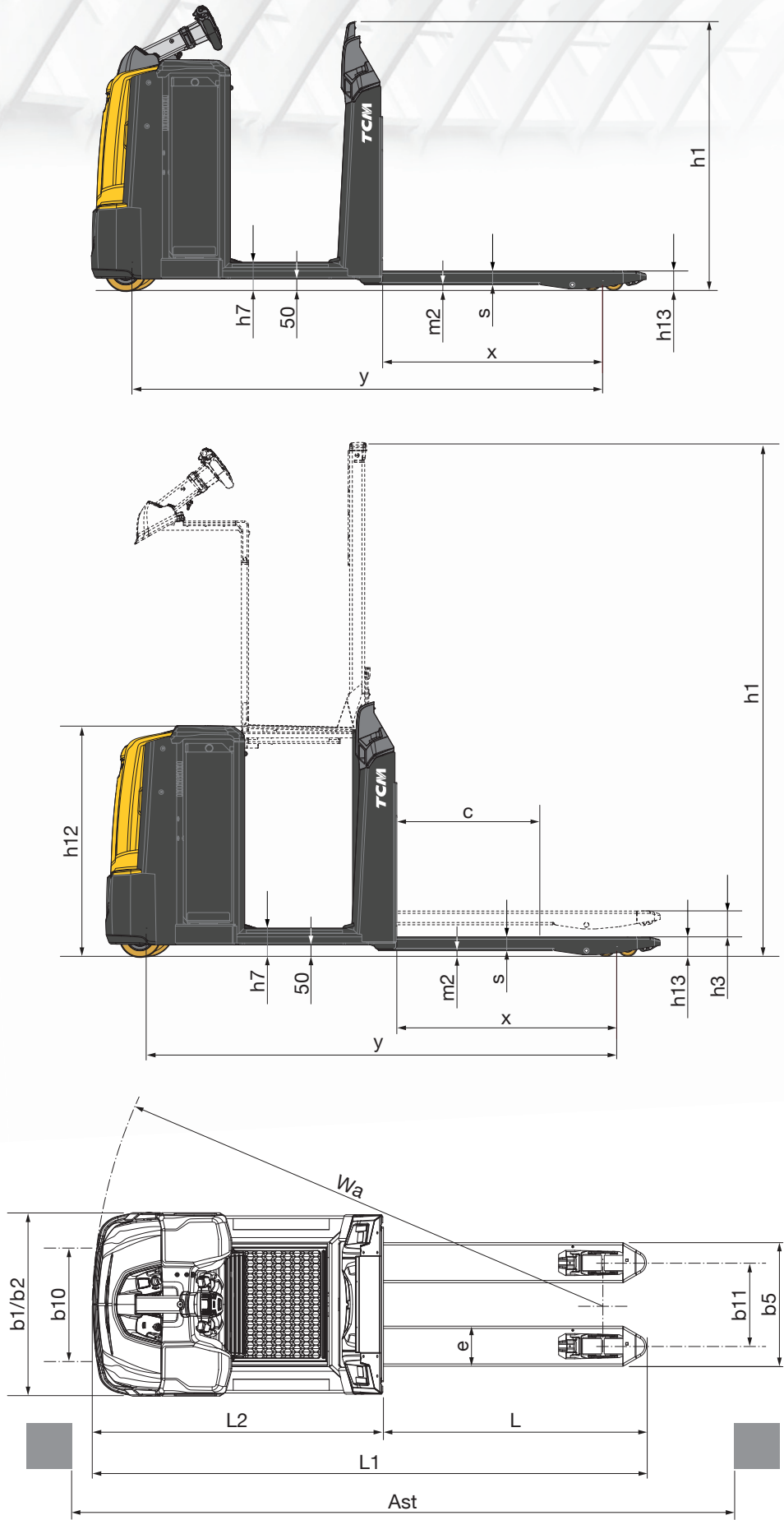
LO20-25N2(P)

STANDARD SPECIFICATIONS

CHARACTERISTICS			Standard Platform		Rising Platform	
1.01	Manufacturer		TCM		TCM	
1.02	Manufacturer's model designation		LO20N2	LO25N2	LO20N2P	LO25N2P
1.03	Power source		Battery	Battery	Battery	Battery
1.04	Operator type		Stand-on	Stand-on	Stand-on	Stand-on
1.05	Load capacity	Q (kg)	2000	2500	2000	2500
1.06	Load centre distance	c (mm)	600	600	600	600
1.08	Load wheel axle to fork face (forks lowered)	x (mm)	960	960	960	960
1.09	Wheelbase	y (mm)	2054 ¹	2054 ¹	2054 ¹	2054 ¹
WEIGHT						
2.01b	Truck weight without load, with maximum battery weight	kg	1079 ²	1079 ²	1215 ²	1215 ²
2.02	Axle loadings with nominal load & maximum battery weight, drive / load side	kg	1082 / 1997	1178 / 2401	1130 / 2085	1223 / 2492
2.03	Axle loadings without load & with maximum battery weight, drive/load side	kg	829 / 250	829 / 250	913 / 302	913 / 302
WHEELS, DRIVE TRAIN						
3.01	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive/load side		Vul	Vul	Vul	Vul
3.02	Tyre dimensions, drive side	Ø (mm)	250	250	250	250
3.03	Tyre dimensions, load side	Ø (mm)	85	85	85	85
3.04	Castor wheel dimensions (diameter x width)	Ø (mm)	180 x 65	180 x 65	180 x 65	180 x 65
3.05	Number of wheels, load/drive side (x=driven)		4 / 1x1	4 / 1x1	4 / 1x1	4 / 1x1
3.06	Track width (centre of tyres), drive side	b10 (mm)	494	494	494	494
3.07	Track width (centre of tyres), load side	b11 (mm)	365	365	365	365
DIMENSIONS						
4.02a	Height with mast lowered	h1 (mm)	1173	1173	1349 / 2244	1349 / 2244
4.04	Lift height	h3 (mm)	135	135	135	135
4.08	Seat or stand height	h7 (mm)	123	123	150	150
4.14	Platform height, raised	h12 (mm)	-	-	1000	1000
4.15	Fork height, fully lowered	h13 (mm)	85	85	85	85
4.19	Overall length	l1 (mm)	2421 ¹	2421 ¹	2421 ¹	2421 ¹
4.20	Length to fork face	l2 (mm)	1271 ¹	1271 ¹	1271 ¹	1271 ¹
4.21	Overall width	b1/b2 (mm)	800	800	800	800
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	60 / 175 / 900 - 3600	60 / 175 / 900 - 3600	60 / 175 / 900 - 3600	60 / 175 / 900 - 3600
4.25	Outside width over forks (minimum/maximum)	b5 (mm)	480 / 660	480 / 660	480 / 660	480 / 660
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)	25	25	25	25
4.34a	Working aisle width with 800 x1200 mm pallets, load lengthwise	Ast (mm)	2898 ¹	2898 ¹	2898 ¹	2898 ¹
4.35	Turning radius	Wa (mm)	2231 ¹	2231 ¹	2231 ¹	2231 ¹
PERFORMANCE						
5.01	Travel speed, with/without load	km/h	9.0 / 9.0 (opt 9 / 13)	9.0 / 13.0	9.0 / 9.0 (opt 9 / 13) ³	9.0 / 13.0 ³
5.02	Lifting speed, with/without load	m/s	0.04 / 0.05	0.03 / 0.05	0.04 / 0.05	0.03 / 0.05
5.03	Lowering speed, with/without load	m/s	0.05 / 0.03	0.05 / 0.03	0.05 / 0.03	0.05 / 0.03
5.07	Gradeability, with/without load	%	7 / 15	7 / 15	7 / 15	7 / 15
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		Electric	Electric	Electric	Electric
ELECTRIC MOTORS						
6.01	Drive motor capacity (60 min. short duty)	kW	2.6	2.6	2.6	2.6
6.02	Lift motor output at 15% duty factor	kW	1.2	1.2	1.2	1.2
6.04	Battery voltage/capacity at 5-hour discharge	V /Ah	24 / 465 - 620	24 / 465 - 620	24 / 465 - 620	24 / 465 - 620
6.05	Battery weight	kg	355 / 493	355 / 493	355 / 493	355 / 493
6.06a	Energy consumption according to EN16796	kWh / h	0.37	0.4	0.37	0.4
MISCELLANEOUS						
8.01	Type of drive control		Stepless	Stepless	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 ⁴	62 ⁴	62 ⁴	62 ⁴
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 / - ⁴	73 / 62 / - ⁴	73 / 62 / - ⁴	73 / 62 / - ⁴
10.7.2	Whole-body vibration (EN 13 059:2002)		0.6	0.6	0.6	0.6
10.7.3	Hand-arm vibration (EN 13 059:2002)		< 2.5	< 2.5	< 2.5	< 2.5

1. With 620Ah battery + 100mm
2. Forks 540 x 1150, battery 620 Ah
3. With drivers platform height >300mm max 5.5km/h
4. Inaccuracy of 4 dB(A)

DIMENSIONS
LO20-25N2(P)

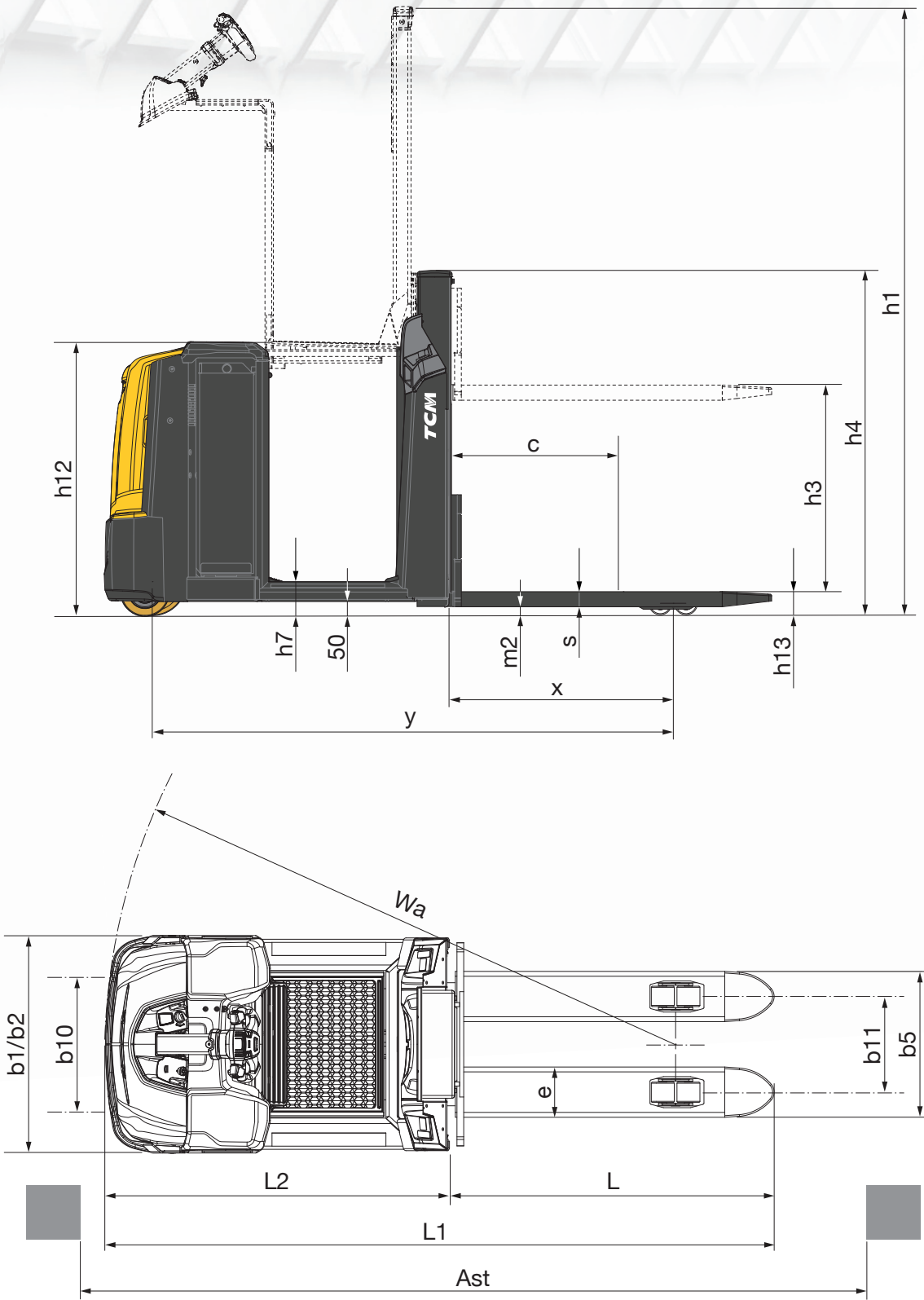


STANDARD SPECIFICATIONS

CHARACTERISTICS				Standard Platform, Rising Forks	Rising Platform, Rising Forks
1.01	Manufacturer			TCM	
1.02	Manufacturer's model designation			LO12N2F	LO12N2FP
1.03	Power source			Battery	Battery
1.04	Operator type			Stand-on	Stand-on
1.05	Load capacity	Q	(kg)	1200	1200
1.06	Load centre distance	c	(mm)	600	600
1.08	Load wheel axle to fork face (forks lowered)	x	(mm)	785	785
1.09	Wheelbase	y	(mm)	1929 ¹	1929 ¹
WEIGHT					
2.01b	Truck weight without load, with maximum battery weight		kg	1220 ²	1356 ²
2.02	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	972 / 1448	1059 / 1497
2.03	Axle loadings without load & with maximum battery weight, drive/load side		kg	853 / 367	940 / 416
WHEELS, DRIVE TRAIN					
3.01	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive/load side			Vul	Vul
3.02	Tyre dimensions, drive side	Ø	(mm)	250	250
3.03	Tyre dimensions, load side	Ø	(mm)	85	85
3.04	Castor wheel dimensions (diameter x width)	Ø	(mm)	180 x 65	180 x 65
3.05	Number of wheels, load/drive side (x=driven)			4 / 1x1	4 / 1x1
3.06	Track width (centre of tyres), drive side	b10	(mm)	494	494
3.07	Track width (centre of tyres), load side	b11	(mm)	355	355
DIMENSIONS					
4.02a	Height with mast lowered	h1	(mm)	1173	1394 / 2244
4.04	Lift height	h3	(mm)	765 / 1115	765 / 1115
4.05	Overall height with mast extended	h4	(mm)	1275 / 1625	1275 / 1625
4.08	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	l1	(mm)	2471 ¹	2471 ¹
4.20	Length to fork face	l2	(mm)	1321 ¹	1321 ¹
4.21	Overall width	b1/b2	(mm)	800	800
4.22	Fork dimensions (thickness, width, length)	s / e / l	(mm)	56 / 186 / 950 - 1450	56 / 186 / 950 - 1450
4.25	Outside width over forks (minimum/maximum)	b5	(mm)	540 / 570	540 / 570
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2	(mm)	25	25
4.34a	Working aisle width with 800 x1200 mm pallets, load lengthwise	Ast	(mm)	2881 ¹	2881 ¹
4.35	Turning radius	Wa	(mm)	2106 ¹	2106 ¹
PERFORMANCE					
5.01	Travel speed, with/without load		km/h	9.0 / 9.0 (opt 9 / 13) ³	9.0 / 9.0 (opt 9 / 13) ³
5.02	Lifting speed, with/without load		m/s	0.20 / 0.41	0.20 / 0.41
5.03	Lowering speed, with/without load		m/s	0.30 / 0.36	0.30 / 0.36
5.07	Gradeability, with / without load		%	7 / 15	7 / 15
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric
ELECTRIC MOTORS					
6.01	Drive motor capacity (60 min. short duty)		kW	2.6	2.6
6.02	Lift motor output at 15% duty factor		kW	2.2	2.2
6.04	Battery voltage/capacity at 5-hour discharge		V / Ah	24 / 465 - 620	24 / 465 - 620
6.05	Battery weight		kg	355 / 493	355 / 493
6.06a	Energy consumption according to EN16796		kWh / h	0.37	0.37
MISCELLANEOUS					
8.01	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 ⁴	62 ⁴
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 / - ⁴	73 / 62 / - ⁴
10.7.2	Whole-body vibration (EN 13 059:2002)			0.6	0.6
10.7.3	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5

1. With 620Ah battery + 100mm
2. Forks 540 x 1150, battery 620 Ah
3. With drivers platform height >300mm max 5.5km/h
4. Inaccuracy of 4 dB(A)

DIMENSIONS
LO12N2(F)(P)

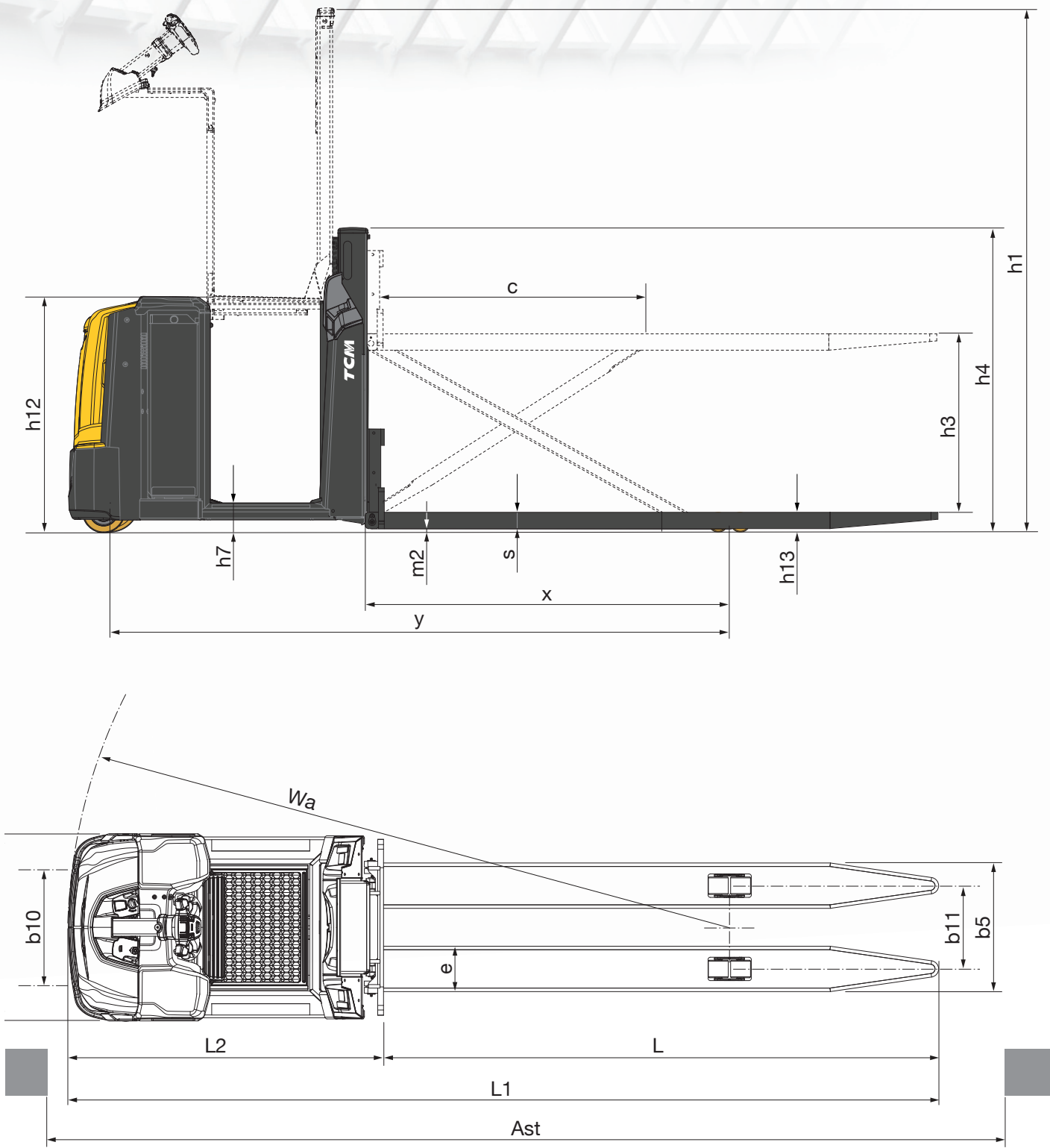


STANDARD SPECIFICATIONS

CHARACTERISTICS			Standard Platform, Scissor Lift Forks	Rising Platform, Scissor Lift Forks
1.01	Manufacturer		TCM	
1.02	Manufacturer's model designation		LO20N2X	LO20N2XP
1.03	Power source		Battery	Battery
1.04	Operator type		Stand-on	Stand-on
1.05	Load capacity	Q (kg)	2000	2000
1.06	Load centre distance	c (mm)	1200	1200
1.08	Load wheel axle to fork face (forks lowered)	x (mm)	1480	1480
1.09	Wheelbase	y (mm)	2640 ¹	2640 ¹
WEIGHT				
2.01b	Truck weight without load, with maximum battery weight	kg	1333 ²	1469 ²
2.02	Axle loadings with nominal load & maximum battery weight, drive / load side	kg	1135 / 2220	1230 / 2261
2.03	Axle loadings without load & with maximum battery weight, drive/load side	kg	929 / 404	1024 / 445
WHEELS, DRIVE TRAIN				
3.01	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive/load side		Vul	Vul
3.02	Tyre dimensions, drive side	Ø (mm)	250	250
3.03	Tyre dimensions, load side	Ø (mm)	85	85
3.04	Castor wheel dimensions (diameter x width)	Ø (mm)	180 x 65	180 x 65
3.05	Number of wheels, load/drive side (x=driven)		4 / 1x1	4 / 1x1
3.06	Track width (centre of tyres), drive side	b10 (mm)	494	494
3.07	Track width (centre of tyres), load side	b11 (mm)	326 / 356	326 / 356
DIMENSIONS				
4.02a	Height with mast lowered	h1 (mm)	1173	1394 / 2244
4.04	Lift height	h3 (mm)	765	765
4.05	Height with mast extended	h4 (mm)	1305	1305
4.08	Seat or stand height	h7 (mm)	123	150
4.14	Platform height, raised	h12 (mm)	-	1000
4.15	Fork height, fully lowered	h13 (mm)	90	90
4.19	Overall length	l1 (mm)	3728 ^{1,3}	3728 ^{1,3}
4.20	Length to fork face	l2 (mm)	1353 ^{1,3}	1353 ^{1,3}
4.21	Overall width	b1/b2 (mm)	800	800
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	70 / 194 / 2375, 2850	70 / 194 / 2375, 2850
4.25	Outside width over forks (minimum/maximum)	b5 (mm)	520 / 550	520 / 550
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)	20	20
4.34a	Working aisle width with 800 x1200 mm pallets, load lengthwise	Ast (mm)	4074 ^{1,3}	4074 ^{1,3}
4.35	Turning radius	Wa (mm)	2833 ¹	2833 ¹
PERFORMANCE				
5.01	Travel speed, with/without load	km/h	9.0 / 13.0	9.0 / 13.0 ⁴
5.02	Lifting speed, with/without load	m/s	0.10 / 0.23	0.10 / 0.23
5.03	Lowering speed, with/without load	m/s	0.17 / 0.23	0.17 / 0.23
5.07	Gradeability, with / without load	%	7 / 15	7 / 15
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		Electric	Electric
ELECTRIC MOTORS				
6.01	Drive motor capacity (60 min. short duty)	kW	2.6	2.6
6.02	Lift motor output at 15% duty factor	kW	2.2	2.2
6.04	Battery voltage/capacity at 5-hour discharge	V /Ah	24 / 465 - 620	24 / 465 - 620
6.05	Battery weight	kg	355 / 493	355 / 493
6.06a	Energy consumption according to EN16796	kWh / h	0.44	0.44
MISCELLANEOUS				
8.01	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 ⁵	62 ⁵
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 / - ⁵	73 / 62 / - ⁵
10.7.2	Whole-body vibration (EN 13 059:2002)		0.7	0.7
10.7.3	Hand-arm vibration (EN 13 059:2002)		< 2.5	< 2.5

1. With 620Ah battery + 100mm
2. Forks 540 x 1150, battery 620 Ah
3. Fork carriage length 2375 mm
4. With drivers platform height >300mm max 5.5km/h
5. Inaccuracy of 4 dB(A)

DIMENSIONS
LO20N2(X)(P)



LO12-25N2(P)(F)(X)

STANDARD AND OPTIONS LIST

	LO20/25N2	LO20/25N2P	LO12N2F	LO12N2FP	LO20N2X	LO20N2XP
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	●	●	●	●	●	●
Hill hold	●	●	●	●	●	●
Automatic parking brake	●	●	●	●	●	●
Lifting driver's platform, h=1000 mm	-	●	-	●	-	●
Lift height (h3 + h13) 220 mm	●	●	-	-	-	-
Lift height (h3 + h13) 850 mm	-	-	●	●	-	-
Lift height (h3 + h13) 855 mm	-	-	-	-	●	●
Simultaneous driving and lifting of the driver's platform	-	●	-	●	-	●
Drive speed reduction when platform raised (4 km/h)	-	●	-	●	-	●
Drive speed reduction when forks raised (lift height > 300 mm)	-	-	●	●	●	●
POWER SOURCE						
Li-ion battery*	●	●	●	●	●	●
Lead acid battery	●	●	●	●	●	●
ENVIRONMENT						
Cold store design, 0C° to -35C°	●	●	●	●	●	●
DRIVE/LIFT CONTROLS						
Walk beside drive button in backrest, FWD/BWD	●	●	●	●	●	●
Buttons for lift/lower on sides of backrest	●	●	●	●	●	●
SAFETY						
Blue point safety light towards driving direction (forks trailing)	●	●	●	●	●	●
Red point safety light towards driving direction (forks trailing)	●	●	●	●	●	●
Driving light towards driving direction (forks trailing)	●	●	●	●	●	●
Warning strobe, yellow	●	●	●	●	●	●
Drive alarm (programmable)	●	●	●	●	●	●
Fire extinguisher	●	●	●	●	●	●
WHEEL OPTIONS						
Polyurethane traction and load wheels	●	●	●	●	●	●
Power friction traction wheel	●	●	●	●	●	●
COLOUR						
Special RAL colour on front machinery steel cover	●	●	●	●	●	●
OTHER OPTIONS						
High drive speed 13 km/h (without load)	●	●	●	●	-	-
Load weight indicator +/- 50 kg	●	●	●	●	●	●
PIN code access with BDI display	●	●	●	●	●	●
PIN code access with colour display	●	●	●	●	●	●
Colour display without PIN code access	●	●	●	●	●	●
Walk beside drive button in backrest, FWD/BWD	●	●	●	●	●	●
Buttons for lift/lower on sides of backrest	●	●	●	●	●	●
Accessory rail in front	●	-	●	-	●	-
Picking tray, for OPB20/25N2P, OPB12N2FP and OPB20N2XP models only. Max. 50 kg	-	●	-	●	-	●
Scanner holder	●	●	●	●	●	●
Equipment holder (RAM mountings)	●	●	●	●	●	●
Wrapping holder	●	●	●	●	●	●
Load backrest	●	●	●	●	●	●
Rear grab handle on backrest	●	-	-	-	-	-
Foot switch for lowering the driver's platform	-	●	-	●	-	●
Sideways battery change	●	●	●	●	●	●
Clipboard, A4	●	●	●	●	●	●
Front storage boxes	●	-	●	-	●	-
Storage folder on bottom of the platform	●	-	●	-	●	-
Entry and exit rollers for crosswise pallet handling	●	●	-	-	-	-
Back cushion, tiltable to seat position for back & feet rest. Adjustable in height.	●	-	●	-	●	-
Power supply, 12 V	●	●	●	●	●	●
Power supply, USB 5 V	●	●	●	●	●	●
Heavy duty front nylon strip covered bumper	●	●	●	●	●	●
Raised front guard plate	●	●	●	●	●	●

KEY ● Standard ● Option - Not available

* Li-ion battery option is available in selected regions



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