

PUMA L

Lifting the future



New generation
Multi-one electrical forklifts

Lifting capacity from 1.6 to
2.0 tons at 500 mm
load center

Best solution for narrow
aisles and tight spaces

Ergonomically pleasing design
and one-hand control joystick

Regenerative system that
slows down when gas pedal
is released

Anti-skid system on the ramp

Multifunctional LCD display



Safe driving mode when
elevator is in the 2nd level

Safe driving mode
when cornering

Digital failure
reporting system

Warning system in
risky situations

Warning system for
maintenance time

Control system adjustable
according to operating
conditions (travel and
hydraulic speeds, brake, etc.)



Technical Specification

General Features	Lifting Capacity	Q (t)	1,6	1.8	2.0
	Load Base	C (mm)	500	500	500
	Mirror Front Axle Distance	X (mm)	369	369	369
	Wheel Base	Y (mm)	1423	1423	1423
Weights	Weight of Forklift Truck (With Standard Battery)	kg	3175	3382	3582
	Axle Load, Full-Load, Front / Rear	kg	4292 - 483	4618 - 557	4994 - 581
	Axle Load, No-Load, Front / Rear	kg	1685 - 1490	1685 - 1690	1735 - 1840
Tyres	Tyres		SE	SE	SE
	Front Tyre Size		18 x 7-8	18 x 7-8	200 x 50-10
	Rear Tyre Size		16x6-8	16 x 6-8	16 x 6-8
	Number of Tyres, Front / Rear		2x / 2	2x / 2	2x / 2
	Front Tyre Distance	b10 (mm)	890	890	915
	Rear Tyre Distance	b11 (mm)	210	210	210
Measures	Elevator Tilt Angle, Front / Rear	Grad	6 / 6	6 / 6	6 / 6
	Elevator Descending Height	h1 (mm)	2176	2176	2176
	Free Lift	h2 (mm)	150	150	150
	Lift Height	h3 (mm)	3306	3306	3306
	Elevator Outdoor Height	h4 (mm)	3846	3846	3903
	Operator Top Guard Height	h6 (mm)	2065	2065	2065
	Seat Height	h7 (mm)	920	920	920
	Total Length	L1 (mm)	3087	3087	3087
	Length from Fork Front Face	L2 (mm)	1987	1987	1987
	Total Width	b1 (mm)	1110	1110	1110
	Fork Dimensions, Thickness, Width x Length	s/e/1 (mm)	35 x 100 x 1100	35 x 100 x 1100	35 x 100 x 1100
	Fork Handling Mirror Class		2A	2A	2A
	Fork Handling Mirror Width	b3 (mm)	1020	1020	1020
	Elevator's Ground Clearance, Loaded	m1 (mm)	90	90	90
	Ground Clearance of Chassis	m2 (mm)	100	100	100
	Working Aisle Width with Palette of 1000 x 1200	Ast (mm)	3319	3319	3319
	Working Aisle Width with Palette of 1200 x 800	Ast (mm)	3334	3334	3334
	Turning Radius	Wa (mm)	1624	1624	1624
Performance	Travel Speed, Loaded / Unloaded	km / h	16 / 17	15,5 / 17	15,5 / 17
	Lifting Speed, Loaded / Unloaded	m / s	0,50 / 0,66	0,48 / 0,66	0,48 / 0,66
	Landing Speed, Loaded / Unloaded	m / s	0,5/0,46	0,5/0,46	0,5 / 0,46
	Climbing, Loaded / Unloaded	%	15 / 24,5	14 / 23	12,5 / 21
	Max. Climbing, Loaded / Unloaded	%	24 / 39	22 / 36,5	20,5 / 34
	Service Brake		Hidrolik / Elektrik	Hidrolik / Elektrik	Hidrolik / Elektrik
Electric Motor	Travel Motor Power	kW	2 x 6	2 x 6	2 x 6
	Lifting Motor Power	kW	15	15	15
	Battery Voltage, Capacity	V / Ah	48 / 625	48 / 625	48 / 625
	Battery Weight	kg	856	856	863
Information	Driver Control Type		AC / Inverter	AC / Inverter	AC / Inverter
	Operating Pressure for Attachment	bar	140	140	140
	Driver Sound Level	dB (A)	65	65	65

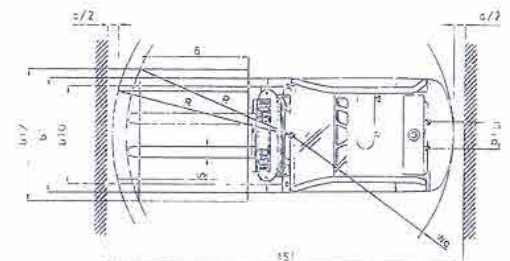
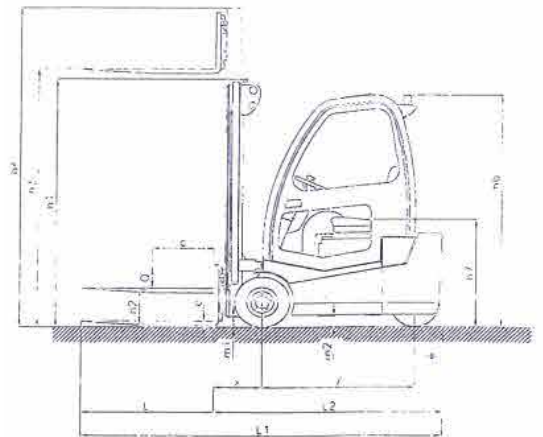
Technical Specification

Elevator Sizes (mm)

1,6				1,8			2.0			[°]
h1 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	
1953	150	2860	3440	150	2860	3457	150	2860	3457	6 / 6
2063	150	3080	3620	150	3080	3677	150	3080	3677	6 / 6
2176	150	3306	3846	150	3306	39033	150	3386	3903	6 / 6
2330	150	3306	4170	150	3306	4227	150	3306	4227	6 / 6
2488	150	3930	4470	150	3930	4527	150	3930	4527	6 / 6
2788	150	4230	5070	150	4230	5127	150	4230	5127	6 / 6
2988	150	4530	5370	150	4530	5427	150	4530	5427	6 / 6
1953	1413	4330	4870	1332	4330	4961	1332	4330	4961	6 / 6
2063	1523	4660	5200	1432	4660	5291	1432	4660	5391	6 / 6
2176	1636	5000	5540	1545	5000	5631	1545	5000	5631	6 / 6
2352	1812	5500	6040	1721	5500	6131	1721	5500	6131	6 / 4
2552	2012	6000	6540	1921	6000	6631	1921	6000	6631	6 / 4
2752	2212	6500	7040	2121	6500	7040	2121	6500	7040	6 / 4
2952	2412	7000	7540	2321	7000	7631	2321	7000	7631	6 / 2

Lifting Capacity Measurements (kg)

Integrated Fork Attachment							
		1,6		1.8		2.0	
h3 (mm)	h1 (mm)	c1 (mm)		c1 (mm)		c1 (mm)	
		500	600	500	600	500	600
2860	1953	1450	1300	1650	1475	1850	1650
3000	2063	1450	1300	1650	1475	1850	1650
3306	2176	1450	1300	1650	1475	1850	1650
3306	2338	1450	1300	1650	1475	1850	1650
3930	2488	1450	1300	1650	1475	1850	1650
4230	2788	1450	1300	1650	1475	1850	1650
4530	2788	1450	1300	1650	1475	1850	1650
4330	1953	1450	1300	1650	1475	1850	1650
4660	2063	1400	1300	1575	1475	1775	1650
5000	2176	1300	1275	1450	1425	1620	1600
5500	2352	1150	1125	1275	1475	1425	1400
6000	2552	1000	975	1100	1275	1225	1200
6500	2752	850	850	950	1100	1050	1026
7000	2952	725	725	800	926	875	875



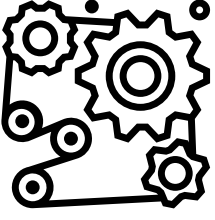
$$SF = \frac{a \cdot b \cdot c}{d \cdot e \cdot f} \quad (r. 35. 4. 36)$$

$$c = 200 \text{ mm}$$

PUMAL

Travel

Driving comfort is provided with ergonomic operator cab. Operator-friendly use ensures comfortable and relaxing work with adjustable steering wheel and seat. Its easy-to-use joystick is precise and ergonomic. Power steering contributes to quick and easy operation. The sound level while driving complies with DIN 12053 <65 dB.



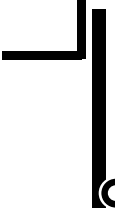
AC Motor and Technology

AC Motor and Technology are designed to be able to operate travel and pump motors in the most difficult conditions with the charcoal-free AC system. In addition, engine maintenance periods are extended and usage costs are reduced in this way.



Elevator

With wide field of view 2-Stage (Dublex), 2-Stage free lifting (Dublex Full Free), 3- Stage (Triplex Full Free) elevator options are available. Safe driving mode is activated when travelling in the 2nd Stage with elevator loaded.



Transmission

Easy-to-use joystick system provides quick movement with directing system.



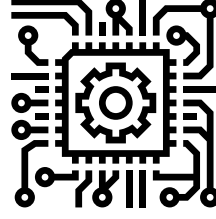
Hydraulic System

Hydraulic system that is designed to work under the most difficult and severe conditions is supported by powerful pump and high pressure resistant hose and pipes. Minimum risk is aimed with safety valves that prevent the elevator from falling down in case of undesired failure.



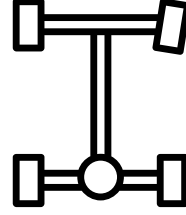
Control

The frequency controlled electronic system is intended for precise operation, failure control and safe driving. The multi-function card system provides the possibility to use completely according to working conditions. It is aimed to operate forklift truck more efficiently and with longer life through maintenance follow-up and failure warning reports.



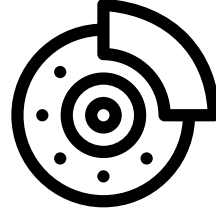
Steer Axle

The axles, which enable to work in confined spaces, contribute to correct and maximum use of your storage space.



Brakes

Multidisk System Brake System provides long lasting use. The system has brakes capable of continuous lubrication. Maximum safety is aimed with regenerative braking system.



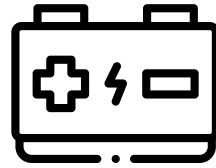
Chassis

Custom-engineered chassis is made of solid and durable materials and both forklift life and operator safety have reached maximum level.



Battery

Batteries, in which elastic cable connections are used, are produced in accordance with working conditions; in this way maximum performance is achieved.



CE Safety

These machine types are produced in full compliance with CE standard. These specifications may subject to change without any notice.



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