



US Import & Distribution



Electric - Multi-directional Forklift
High tech solutions, quality and innovation.



ML Series 4400 - 9900 lbs



Battioni Pagani Group combines two independent privately held companies. Battioni Pagani Pompe world wide leader in design and manufacturing of revolving blade industrial pumps established in 1950, and BP Handling Technologies pioneering the side loader market since 1959.

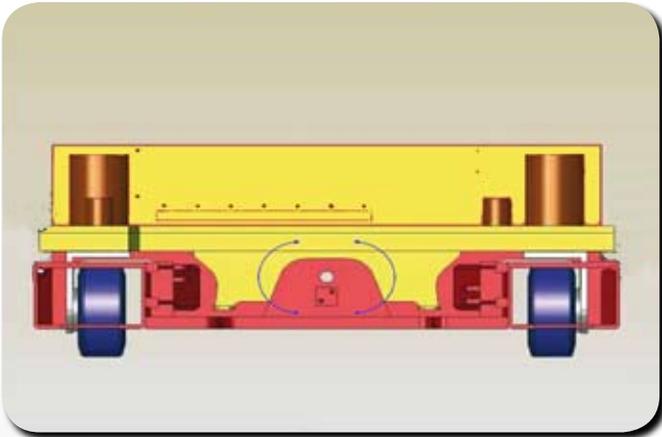
The modern 160,000 square foot manufacturing facility is home to the metal shop, vehicle assembly, final testing and quality control.

BP manufactures a complete range of side loading vehicles, from 2T to 50T. Vehicles are powered by a wide range of power plants - Diesel / LPG / Electric and currently developing a hybrid model.

BP has always been an innovative leader, by adopting and developing custom solutions with high tech integration. The ML generation offers a robust platform for the control of long loads in narrow spaces. The vehicles feature AC electronic motors and controls and integrated CAN BUS technology for smooth vehicle operation.



Technology and Development



Specially designed two part chassis balances the rear traction portion with the front load wheels.

The masts are made from manganese extruded steel and specially suited for sideloader operation.



BP utilizes a cross system of hydraulic pistons for smooth even positive control of the mast.

Four independent steer wheel units, control each wheel via direct transmission (without chains) the movement coordinated by on-board computer.



Innovation and Quality

Our technical department specializes in the mechanical, hydraulic and electronic design of custom machines. Torsion welded frame construction designed to handle the dynamic stresses found specifically in SideLoading Vehicles.

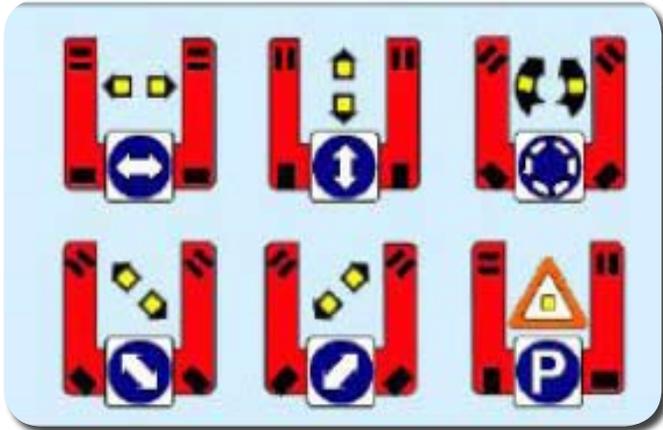
The ML's custom design finds the right compromise between operator comfort and a necessary small cabin to fit in very narrow aisles. The cab layout offers the operator easy reach to all controls. The light highly precise steering enables convenient smooth positive control of the vehicle.



Cab	Designed to suit application - adjustable seating
	CAN BUS wiring technology
	Finger tip steering with electronic control
	48V Battery System
	Cab mounted work lights and many options
	~ AC electronic system
	Reinforced Mast Channels
	Automotive style pedals
	Four orbital motors with direct feedback steering
	Rear wheel(s) driven*

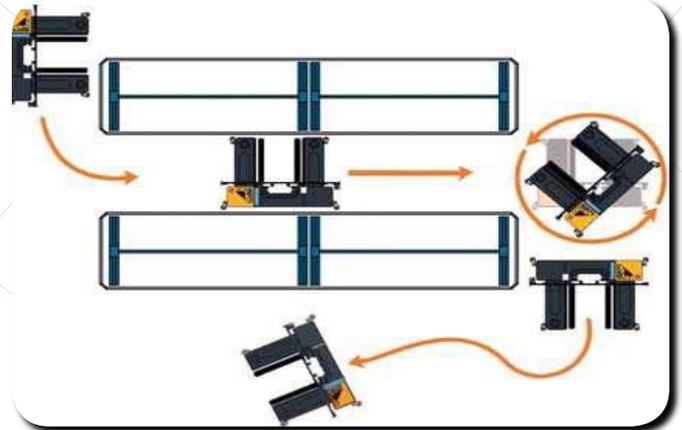
Robust Construction

With a variety of wheel options the ML series can be found indoors and out, providing efficient storage, handling and loading of long loads.

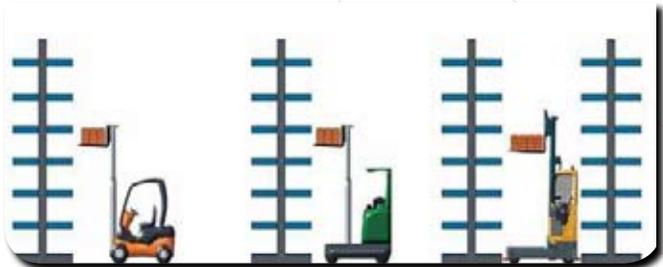


Six separate steering profiles - central CPU control

The ML series is designed to minimize maintenance requirements. Efficient on-board diagnostics notifies the operator of anomalies.



Orbital steer motors with direct feedback steering



Space - counter-balanced - reach - and sideloader



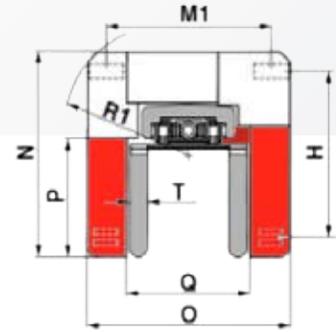
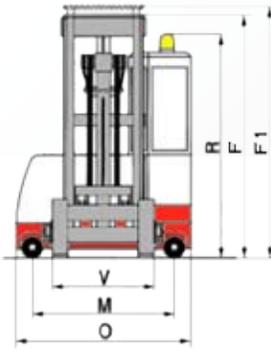
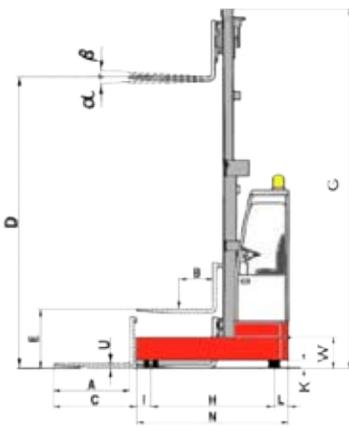
Loads supported on vehicle chassis to travel



Very narrow aisle applications - side seat cab



At home in narrow aisles or as utility transport



		Model			ML-T2L			ML-T2.5L			ML-T3L			
Specifications		Platform Type			1000	1200	1400	1000	1200	1400	1000	1200	1400	
	1	Nominal Capacity		lbs	4 400			5 500			6 600			
	2	Load Centre to fork face	B	in	20"	24"	27.5"	20"	24"	27.5"	20"	24"	27.5"	
	3	Power Supply			Electric			Electric			Electric			
	4	Driver			Seated			Seated			Seated			
	5	Tires (front / rear)			Cushion			Cushion			Cushion			
	6	Number of Wheels (front / rear *) (driven*)			4 / 2* (1*)			4 / 2* (1*)			4 / 2* (1*)			
Dimensions	7	Standard Lift	D	in	157.5"			157.5"			157.5"			
	8	Standard Free Lift	E	in	29.5"			29.5"			29.5"			
	9	Fork Thickness	U	in	1.6"			1.6"			2.0"			
	10	Fork Width	T	in	5.1"			5.1"			5.9"			
	11	Fork Length	A	in	39.4"	47.2"	55.1"	39.4"	47.2"	55.1"	39.4"	47.2"	55.1"	
	12	Fork Tilt (front / rear)	a/B	deg	- 3.5° / + 3.5°			- 3.5° / + 3.5°			- 3.5° / + 3.5°			
	13	Overall Width	N	in	70.9"	78.7"	86.6"	70.9"	78.7"	86.6"	73.2"	81.1"	90.0"	
	14	Overall Length	O	in	122"			122"			122"			
	15	Collapsed Mast Height	F	in	107.1"			107.1"			112.2"			
	16	Mast Height w. forks on deck	F1	in	107.1"			107.1"			112.2"			
	17	Raised Mast Height	G	in	189"			189"			192.9"			
	18	Cabin Height	R	in	112.2"			112.2"			112.2"			
	19	Forks Extended	C	in	42.9"	50.8"	58.6"	42.9"	50.8"	58.6"	42.9"	50.8"	58.6"	
	20	Well Width	Q	in	53.3"			53.3"			53.3"			
	21	Distance Fork Spread (min / max)	V	in	11.8" / 47.6"			11.8" / 47.6"			11.8" / 47.6"			
	22	Platform Height	W	in	15.4"			15.4"			15.4"			
	23	Platform Width	P	in	44.3"	52.2"	60"	44.3"	52.2"	60"	44.3"	52.2"	60"	
	24	Minimum Turning Radius	Y	in	66.1"	70"	72"	66.1"	70"	72"	66.1"	70"	72"	
	25	Stability in compliance with			European Standards									
	Performance	26	Travel Speed (laden / unladen)		mph	6.2 / 6.8			6.2 / 6.8			6.2 / 6.8		
		27	Lifting Speed (laden / unladen)		fpm	55 / 59			55 / 59			55 / 59		
		28	Lowering Speed (laden / unladen)		fpm	79 / 69			79 / 69			79 / 69		
		29	Traverse Mast Speed (out / in)		fpm	59 / 67			59 / 67			59 / 67		
		30	Gradeability (laden / unladen)		%	9 / 11			9 / 11			9 / 11		
		31	Weight without Load		lbs	11 684	12 014	12 345	11 684	12 014	12 345	11 904	12 125	12 566
Tires	32	Number of Wheels (front / rear)			4 / 2			4 / 2			4 / 2			
	33	Tire size front (n. 4) standard			cushion 250 Ø x 130			cushion 250 Ø x 130			cushion 250 Ø x 130			
	34	Tire size rear (n. 2) standard			cushion 406 Ø x 178			cushion 406 Ø x 178			cushion 406 Ø x 178			
	35	Tire size front (option) n.4 Poly / SE			Poly 240 Ø x 130			Poly 240 Ø x 130			Poly 240 Ø x 130			
	36	Tire size rear (option) n.2 Cushion / SE			cushion 406 Ø x 178			cushion 406 Ø x 178			cushion 406 Ø x 178			
	37	Service Brake (foot)			Hydraulic			Hydraulic			Hydraulic			
	38	Parking Brake (hand)			Electric-Hydraulic			Electric-Hydraulic			Electric-Hydraulic			
	39	Wheelbase	H	in	50.6"	58.5"	66.3"	50.6"	58.5"	66.3"	50.6"	58.5"	66.3"	
	40	Truck width front / rear	M/M1	in	79.4 / 90.9"			79.4 / 90.9"			79.4 / 90.9"			
	41	Overhang (front / rear)	I/L	in	9.8 / 10.4"			9.8 / 10.4"			9.8 / 10.4"			
	42	Min. Ground Clearance	K	in	3.9"			3.9"			3.9"			
Motors	43	Battery Capacity		V/Ah	48 / 620			48 / 620			48 / 775			
	44	Electric Traction Motors		kW	5 x (n.1)			5 x (n.1)			5 x (n.1)			
	45	Electric Pump Motor		kW	17			17			14			
	46	Steering Pump		kW	Hydrostatic			Hydrostatic			Hydrostatic			
Option	47	Truck width front / rear (cushion / poly)	M/M1	in	-			-			-			
	48	Cabin Height (wheels cushion / poly)	R	in	-			-			-			
	49	Platform Height (wheels cushion / poly)	W	in	-			-			-			
	50	Gradeability (wheels cushion / poly)		%	-			-			-			
	51	Wheelbase (wheels cushion / poly)	H	in	-			-			-			

Specifications



	ML-T3		ML-3.5		ML-T4		ML-T4.5			
	1200	1400	1200	1400	1200	1400	1200	1400		
1	6 600		7 700		8 800		9 900		Specifications	
2	24"	27.5"	24"	27.5"	24"	27.5"	24"	27.5"		
3	Electric		Electric		Electric		Electric			
4	Seated		Seated		Seated		Seated			
5	Super-elastic		Super-elastic		Super-elastic		Super-elastic			
6	4 / 2* (2*)		4 / 2* (2*)		4 / 2* (2*)		4 / 2* (2*)			
7	157.5"		157.5"		157.5"		157.5"		D	
8	29.5"		29.5"		20.9"		20.9"		E	
9	2.0"		2.0"		2.0"		2.4"		U	
10	5.9"		5.9"		5.9"		5.9"		T	
11	47.2"	55.1"	47.2"	55.1"	47.2"	55.1"	47.2"	55.1"	A	
12	- 2.0° / + 4.0°		- 2.0° / + 4.0°		- 3.5° / + 3.5°		- 3.5° / + 3.5°		a/B	
13	88.6"	96.5"	88.6"	96.5"	88.6"	96.5"	88.6"	96.5"	N	
14	104.3"		104.3"		104.3"		104.3"		O	
15	112.2"		112.2"		109.4"		109.4"		F	
16	112.2"		112.2"		109.4"		109.4"		F1	
17	190.9"		190.9"		192.1"		192.1"		G	
18	111"		111"		111"		111"		R	
19	50.8"	58.6"	50.8"	58.6"	50.8"	58.6"	50.8"	58.6"	C	
20	54.5"		54.5"		54.5"		54.5"		Q	
21	11.8" / 49.6"		11.8" / 49.6"		11.8" / 49.6"		11.8" / 49.6"		V	
22	21.3"		21.3"		21.3"		21.3"		W	
23	52.2"	60"	52.2"	60"	52.2"	60"	52.2"	60"	P	
24	68.9"	71.3"	68.9"	71.3"	68.9"	71.3"	68.9"	71.3"	Y	
25	European Standards									
26	6.2 / 6.8		6.2 / 6.8		6.2 / 6.8		5.6 / 6.2		Performance	
27	63 / 69		63 / 69		55 / 59		69 / 69			
28	79 / 69		79 / 69		79 / 69		79 / 69			
29	69 / 69		69 / 69		69 / 69		69 / 69			
30	8 / 12		8 / 12		6 / 10		6 / 10			
31	15 432	15 873	16 093	16 534	16 534	16 975	16 975	17 416		
32	4 / 2		4 / 2		4 / 2		4 / 2		Tires	
33	cushion 250 Ø x 130		cushion 250 Ø x 130		cushion 250 Ø x 130		Poly 240 Ø x 130			
34	cushion 406 Ø x 178		cushion 406 Ø x 178		cushion 406 Ø x 178		cushion 406 Ø x 178			
35	Poly 240 Ø x 130	SE 16x6-8	Poly 240 Ø x 130	SE 16x6-8	Poly 240 Ø x 130	SE 16x6-8	SE 16x6-8			
36	C 406 x 178-266	SE 200 / 50 - 10	C 406 x 178-266	SE 200 / 50 - 10	C 406 x 178-266	SE 200 / 50 - 10	SE 200 / 50 - 10			
37	Hydraulic		Hydraulic		Hydraulic		Hydraulic			
38	Electric-Hydraulic		Electric-Hydraulic		Electric-Hydraulic		Electric-Hydraulic			
39	67.5"	75.4"	67.5"	75.4"	67.5"	75.4"	67.5"	75.4"		H
40	81.5 / 78.3"		81.5 / 78.3"		81.5 / 78.3"		81.5 / 78.3"			M/M1
41	9.8 / 10.4"		9.8 / 10.4"		9.8 / 10.4"		9.8 / 10.4"			I/L
42	cushion 3.9 / 9.8" SE		cushion 3.9 / 9.8" SE		cushion 3.9 / 9.8" SE		cushion 3.9 / 9.8" SE		K	
43	48 / 775		48 / 775		48 / 930		48 / 930		Motors	
44	5 x (n.2)		5 x (n.2)		5 x (n.2)		5 x (n.2)			
45	15		15		22		22			
46	5.5		5.5		hydrostatic		hydrostatic			
47	81.5 / 78.9"		81.5 / 78.9"		81.5 / 78.9"		81.5 / 78.9"			M/M1
48	105.1"		105.1"		105.1"		105.1"		R	
49	15.3"		15.3"		15.3"		15.3"		W	
50	10 / 14		10 / 14		8 / 12		8 / 12		%	
51	67.8"	75.7"	67.8"	75.7"	67.8"	75.7"	67.8"	75.7"	H	

Innovation and Design

Customize your lift with many available options or let our sales engineers assist you with the design of a custom built vehicle

Performance & Reliability ML-T4

Local Sales & Service provider



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