



#### Steering handle

Sealed multifunctional tiller arm (IP65) suitable for high-pressure cleaning and disinfection. All the controls on the handle are easy to reach ensuring productivity and precision and so greater efficiency. When released, the handle returns to the vertical position without bumping or rebound, thanks to a gas spring with integrated braking system.



The BADA masts consist of stainless steel profiles which ensure high resistance to torsion and bending rigidity. The stainless steel lifting chains are placed and protected in order to allow a good view during the operations and the manoeuvres. The masts are available in simplex, duplex and triplex with full free lift. All the components as lifting cylinders, bearings, chains are fully stainless steel for hardest applications in corrosive and humid environments.



#### Side battery extraction facility

The stacker BADA 12 is equipped with 24V180Ah battery with gas recycle and built-in charger for easy charging by the connection of the battery plug installed in the water-proof instrument panel. The big battery capacities from 24V 250Ah to 24V 300Ah as option ensure an optimal working autonomy. The battery, positioned on plastic sliders, is extracted from the side for heavy applications and different working shifts. The use of single or double battery stand with wheels makes the battery extraction easier.

#### Instrument panel cover

The instrument panel is protected by a corrosion-proof and washable transparent plastic cover to grant the maximum level of hygiene as required by the food processing machinery European standards EN 1672-1, EN 1672-2 and it is available also by stainless steel cover (as option). The 3-colour LED battery monitor shows the battery discharge status at all times.



#### Maintenance

The maintenance is easier thanks to the opening in the chassis which allows an easy access to the drive compartment in order to minimize the routine maintenance costs.



Special applications: clean rooms, laboratories and others on request.



#### Efficiency, safety, maximum stability, hygienic and easy clean design

The stainless steel pedestrian pallet stacker Model BADA 12-B ideal for transporting over short distances and stacking up to 4.650 mm high (over on request). It is equipped with two separate traction motors to assure powerful drive, excellent handling on uneven and wet surfaces thanks to the excellent side stability and driving comfort. It is the heavy version of the pallet stackers range designed and manufactured for extreme industrial applications. 100% stainless steel AISI 304, all the components as chassis, axes, levers, lifting cylinders, masts are manufactured in stainless steel to grant the protection of the products and the resistance to corrosion in the aggressive and corrosive environments. It is manufactured in conformity with the food processing machinery European standards EN 1672-1, EN 1672-2 and it is ideally suited for the use in the food handling, clean rooms and laboratories in the chemical industries such as pharmaceutical, biomedical, cosmetics, aeronautics and microelectronics.

#### Compact design and cleaning-friendly

The high quality stainless steel AISI 304 (version AISI 316 available with improved corrosion resistance to sea water and corrosive environments) offers an abrasion-resistant and smooth surface even with intensive use avoiding dirt deposits and the spread of germs and bacteria. The unit has been designed and built to withstand regular high-pressure cleaning and disinfection. The water is able to flow over the surface and the hard-wearing seals prevent the entrance of fluids or water into the drive compartment. All the electric components are waterproof and corrosion-proof. The standard execution allows to work in -20° cold store areas (cold storage) and the use of the hydraulic oil food grade NSF-H1 offers a full protection of the food in case of any random contact.

#### Drive and electronic system

The reliable sensor less three phase current traction drive motors ac are able to meet the most demanding performance requirements delivering the necessary power under all load conditions as the traction speed exactly depends on the position of the drive throttle. The unit is equipped with anti rollback devices, the control checks all the units functions and allow many adjustments to optimise the units performances, adapting it to the type of work application it has to carry out. All the parameters related to drive and electric braking are electronically adjustable by a programming console in accordance with the customers requirements.

#### Hydraulic functions

The 2kW powerful and noiseless lifting motor is highly inductive and the torque delivered offers performance with low current absorption. The lifting and lowering of the load are activated by push buttons on tiller arm which allow the operation without taking the hands off the steering handle.

#### Optimal cornering on slippery and wet surfaces

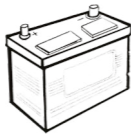
The antislippery no-marking polyurethane traction wheel (rough wheel available as option) grants high stability in every travel situation and the suspended adjustable support wheels always grant constant grip to the floor.

Characteristics	1.1	Manufacturer		Italiana Carrelli Elevatori srl	
	1.2	Model		12-B	
		Execution			
	1.3	Drive		Electric	
	1.4	Operator type		Pedestrian	
	1.5	Load capacity / rated load	Q	t	1.2
		Load capacity mast lift	Q	t	/
		Load capacity initial lift	Q	t	/
		Load capacity initial lift + mast contemporaneously	Q	t	/
Weights	1.6	Load centre distance	c	mm	600
	1.8	Load distance (centre of load axle to fork face)	x	mm	670
	1.9	Wheelbase	y	mm	1.295
Wheels Chassis	2.1	Service weight incl. battery (see line 6.5)		kg	995
	2.2	Axle loading, laden front/rear		kg	841/1.501
	2.3	Axle loading, unladen front/rear		kg	791/353
	3.1	Tires		polyurethane	
	3.2	Tire size, front		mm	83x90
	3.3	Tire size, rear		mm	2x230
	3.4	Additional wheels dimensions		mm	/
Basic dimensions	3.5	Wheels, number front / rear (x = driven wheels)		n°	1 / 2(4) x=2
	3.6	Track width, front	b10	mm	567
	3.7	Track width, rear	b11	mm	380
	4.2	Mast lowered height	h1	mm	2.005
	4.3	Free lift	h2	mm	
	4.4	Lift height	h3	mm	2.810
	4.5	Mast extended height	h4	mm	3.400
	4.6	Initial lift	h5	mm	/
	4.9	Height of tiller arm in drive position min. / max.	h14	mm	1.110 / 1.290
	4.15	Forks lowered height	h13	mm	90
	4.19	Overall length	l1	mm	1.930
	4.20	Length to face of forks	l2	m	780
	4.21	Overall width	b1/ b2	mm	845
	4.22	Forks dimensions	s/e/l	mm	70 / 180 / 1.150
	4.25	Width over forks	b5	mm	560
	4.32	Ground clearance, centre of wheelbase	m2	mm	15
Performances	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast	mm	
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	2.224
	4.35	Turning radius	Wa	mm	1.560
	5.1	Travel speed laden / unladen		km/h	5.8 / 6.0
	5.2	Lifting speed laden / unladen		m/s	0.15 / 0.26
	5.3	Lowering speed laden / unladen		m/s	0.40 / 0.23
Electric motors	5.8	Max gradient performance		%	13 / 18
	5.10	Service brake			Electromagnetic
	6.1	Traction motor, rating S2 60 min		kW	2x1,2
	6.2	Lift motor, rating S3 15%		kW	2
	6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no			DIN 43531
Others	6.4	Battery voltage, nominal capacity K5		V/Ah	24 / 180 - (300)
	6.5	Battery weight		kg	214
	8.1	Type of drive control			ac
	8.4	Sound level at driver's ear according to EN 12 053		dB(A)	< 70
					*optional

Technical specification according to VDI 2198, technical values are referred to the standard product. Different masts, different tires, additional equipment, etc. could produce other values. Information and data are given for information only, Italiana Carrelli elevatori srl will have the sole right for technical changes and improvements without giving any notice.



COLD STORE EXECUTION PROTECTION



SIDE BATTERY EXTRACTION



COMPLETELY WASHABLE



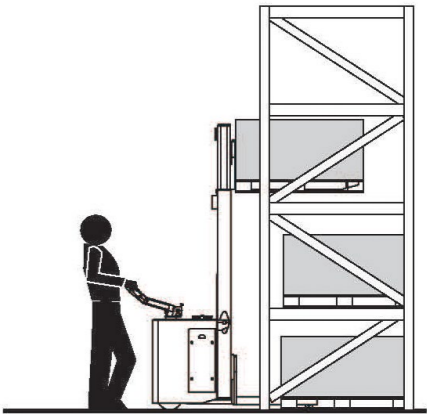
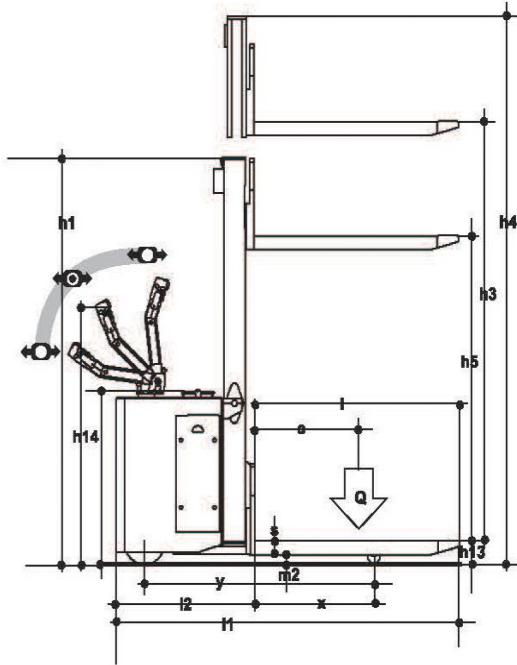
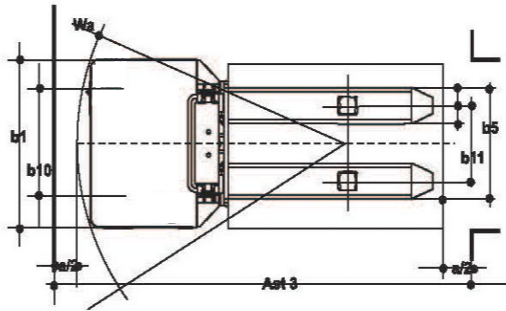
CLEANING AND HYGIENE



NSF- H1 HYDRAULIC OIL



















CUSTOM PRODUCTS



Standard masts							12-B
Denomination		Mast lowered height	Lift height	Total lift height	Mast extended height	Free lift	Capacity (t)
		h <sub>1</sub>	h <sub>3</sub>	h <sub>3</sub> +h <sub>13</sub>	h <sub>4</sub>	h <sub>2</sub>	c=600 mm
Simplex	mm	2.085	1.560	1.650	2.085	1.560	1.2
Duplex	mm	2.005	2.810	2.900	3.400	/	1.2
	mm	2.355	3.510	3.600	4.100	/	1.0
Triplex FFL	mm	1.970	4.110	4.200	4.800	1.410	0.75
	mm	2.120	4.560	4.650	5.250	1.560	0.60

\*Other fork dimensions, lifting heights can be made to measure.

Options package			
stainless steel AISI 304		electronic braking	
acciaio inox AISI 316		anti roll-back system	
full free lift for duplex mast		-20° cold store execution	
double load wheels		hydraulic oil food grade NSF H1	
anti slippery no-marking polyurethane traction wheel		instrument panel protected by stainless steel cover	
rough anti slippery no-marking polyurethane traction wheel		BDI hourmeter with lifting cut-off at 80% discharge	
electromagnetic parking braking		traction battery 24V 250Ah built-in charger 24V 30A	
electronic speed control		single and double battery stand with wheels	

Standard

Optional