



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.



Optimum operator comfort

- Central position of the operator within the chassis which ensures a high level of protection and wide visibility
- Comfort suspended operator's platform, vibrations and stress on the operator are reduced
- Comfortable and robust side arms which assure maximum protection to the operator



Side battery extraction facility

The unit is equipped with 24V 300Ah battery with gas recycle and built-in charger for easy charging at any plug socket. 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, 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 reducing the ordinary maintenance costs.

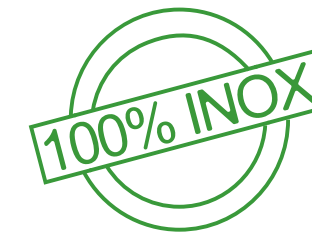


Special applications: clean rooms, laboratories and others on request.



Rider/pedestrian
low lift pallet truck

20-TP9



Efficiency, safety, stability, hygienic and easy clean design

Stainless steel ride-on pallet truck equipped with operator's platform ideal to transport loads up to 2.0 t capacity over long distances and for loading and offloading operations on the ramp. The maximum travel speed is 9 km/h, this results in a significantly greater throughput than for comparable pedestrian trucks. Stability and safety during the travel thanks to the strong side arms and the automatic speed reduction on corner proportional to steering angle. 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. With this specification, the truck 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 desing and cleaning-friendly

The high quality stainless steel (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 motor ac is able to meet the most demanding performance requirements delivering the necessary power under all load conditions as the traction speed 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.

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.

Braking system

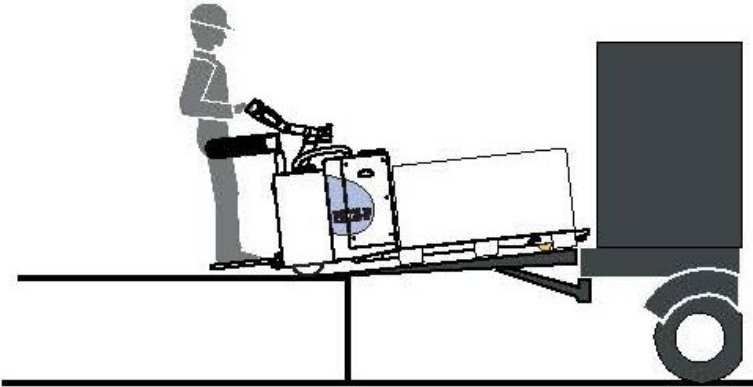
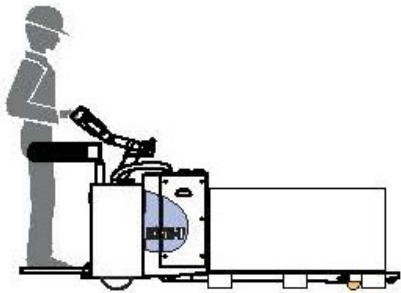
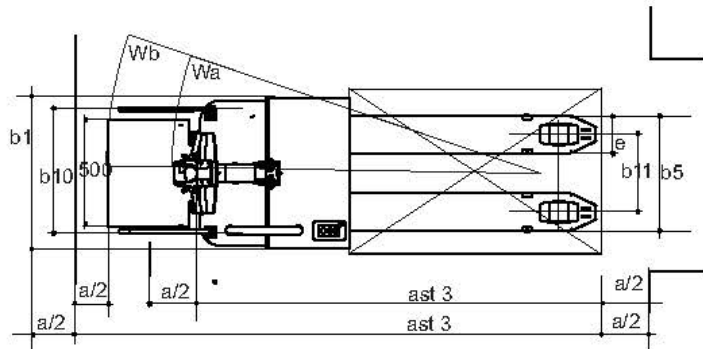
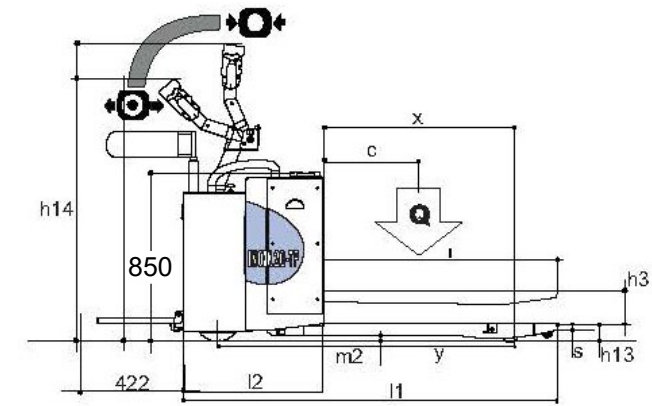
There are three braking systems:

- braking on reversal of direction of travel (service braking);
- emergency braking which automatically occurs on release or extreme lowering of the steering handle;
- parking brake with steering handle in the vertical position.

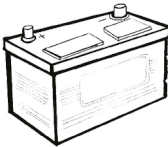


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Characteristics	1.1	Manufacturer			Italiana Carrelli elevatori srl	
	1.2	Model			20-TP9	
		Execution			1.150x540	980x670
	1.3	Drive			E	
	1.4	Operator type			ride-on / pedestrian	
	1.5	Load capacity / rated load	Q	t	2.0	
	1.6	Load centre distance	c	mm	600	500
	1.8	Load distance (centre of load axle to fork face)	x	mm	980	810
	1.9	Wheelbase	y	mm	1.440	1.270
Weights	2.1	Service weight incl. battery (see line 6.5)		kg	695	
	2.2	Axle loading, laden front/rear		kg		
	2.3	Axle loading, unladen front/rear		kg		
Wheels Chassis	3.1	Tires		mm	polyurethane	
	3.2	Tire size, front		mm	230x75	
	3.3	Tire size, rear		mm	82x90	
	3.4	Additional wheels dimensions		mm	100x50	
	3.5	Wheels, number front / rear (x = driven wheels)		n°	(1x +2) / 2 (4)	
	3.6	Track width, front	b10	mm	466	
	3.7	Track width, rear	b11	mm	360	490
Basic dimensions	4.4	Lift	h3	mm	110	
	4.9	Height of tiller arm in drive position min. / max.		h14	mm	850 1.220
	4.15	Forks lowered height	h13	mm	85	
	4.19	Overall length	l1	mm	1.800/2.222	1.630/2.052
	4.20	Length to face of forks	l2	mm	650	
	4.21	Overall width	b1	mm	710	
	4.22	Forks dimensions	s/e/l	mm	60/180/1.150	60/180/980
	4.25	Width over forks	b5	mm	540	670
	4.32	Ground clearance, centre of wheelbase	m2	mm	28	
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast	mm		
4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	2.000/2.422	1.830/2.252	
4.35	Turning radius	Wa	mm	1.600/2.022	1.430/1.852	
Performances	5.1	Travel speed laden / unladen		km/h	9.0	
	5.2	Lifting speed laden / unladen		m/s	0.04 / 0.05	
	5.3	Lowering speed laden / unladen		m/s	0.26 / 0.16	
	5.8	Max gradient performance		%	8 / 15	
	5.10	Service brake			Electromagnetic	
Electric Motor	6.1	Traction motor, rating S2 60 min		kW	2.5	
	6.2	Lift motor, rating S3 15%		kW	1	
	6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no			DIN	
	6.4	Battery voltage, nominal capacity K5		V/Ah	24/ 300	
	6.5	Battery weight		kg	269	
	6.6	Energy consumption according to VDI cycle		kW/h		
Others	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



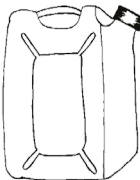
SIDE BATTERY EXTRACTION



COMPLETELY WASHABLE



CLEANING AND HYGIENE



NSF- H1 HYDRAULIC OIL



CUSTOM PRODUCTS

Options package			
stainless steel AISI 304		electronic speed control	
stainless steel AISI 316		anti roll-back system	
double load wheels		-20° cold store execution	
external forks width 670 mm		hydraulic oil food grade NSF H1	
forks length over 1.150 mm		instrument panel protected by stainless steel cover	
anti slippery no-marking polyurethane traction wheel		traction battery 24V 300Ah built-in charger 24V 35A	
electromagnetic parking braking		single and double battery stand with wheels	

Standard

Optional