

# Ergon 14

Lift truck with retractable mast



## ERGONOMIC TECHNOLOGY

The total visibility lift trucks with retractable mast of Ergon series are irreplaceable for the rational use of space in warehouses and the optimisation of goods handling times. They offer maximum comfort combined with the most modern AC technology, making work enjoyable thanks to their ease of manoeuvre and flexibility, with a driver seat designed to accommodate drivers of different heights.

In one word: ergonomics.

Electrically power-assisted steering system to ensure maximum driver comfort, with 360° rotation to reduce manoeuvring space and reverse the direction of travel, or with 180° limit (optional); elimination of any impact transmission to the steering wheel in case of impact of the drive wheel against an obstacle. From the driving position, it is possible to safely access to the truck controls.

4 easy to use mini joysticks activate the hydraulic functions: lifting speed of forks, tilting, side shift and mast carriage, all adjusted with electronic control of the pump motor rpm; fork lowering speed, instead, is controlled through proportional valve.

Graphic display for functional parameters view and preset for level selector function with 20 levels of storage and picking. The self-learning function of level selector allows to programme and use it in a very simple manner.

AC (alternating current) motors are of no maintenance and brushless type, thus eliminating the problems of sparks, heating and wear, with the advantage of significantly reduced maintenance and better management of the power delivered. Torque is greater at low traction speed with respect to traditional motors with the same performance in both no-load and load conditions, and with more uniform countercurrent reversal.

Triplex type 4-cylinder mast with total visibility and free lift as standard for maximum operator visibility during goods handling.

Tilting and integrated side shift on FEM plate for maximum load stability.

Mast retraction carriage with shoulder and rolling mechanisms, both adjustable, sliding on hardened steel tracks, resistant to wear, easy to replace and reversible.

## SUPPLIED WITH THE MACHINE

- **Button for slowed functions** on lifting and side shift
- **Electric parking brake**
- Standard **service brake**:
  - pedal-operated **hydraulic brake** on front wheels
  - **electric brake** upon accelerator release and during reversal with energy recovery in both cases
- Program enabling the use of the machine, through **5 access passwords** for the same number of operators, if activated
- **Driving type battery** 48V – 420 Ah up to 775 Ah (maximum amperage)

## Optionals

- Button for **selection of direction** of travel applied to the seat in addition to the standard one, useful in case of **long distances**
- Possibility of **weighing the load** in the free lift of the mast, in tons (tolerance + - 50 kg)
- **DRIVE IN** preset
- **Cold store** preset
- Preset for **reverse buzzer, flasher, working lights**
- Preset for **level selector** and fork height viewer

✓ **LOAD CAPACITY UP TO 1.400 KG**

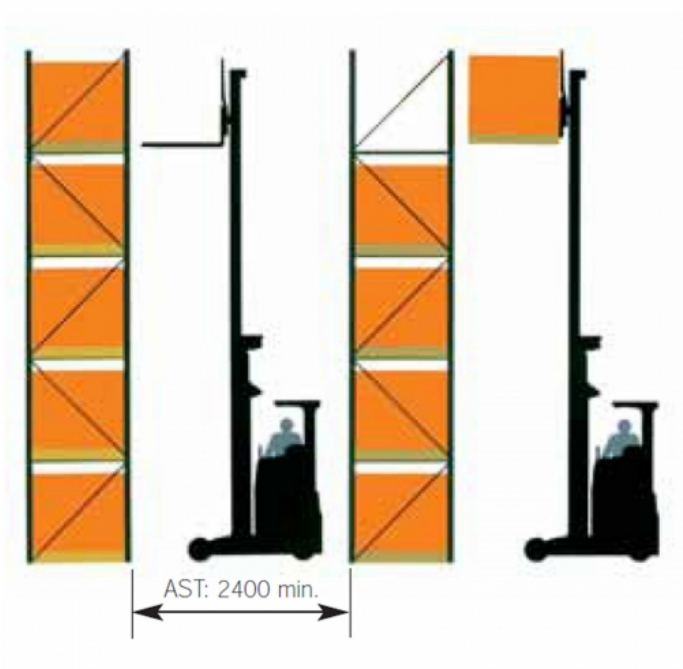
✓ **WIDE RANGE OF OPTIONALS**

✓ **SPECIAL DIMENSIONS UPON REQUEST**

SOME OPTIONALS

-  METALLIC/GALVANISED VERSION
-  SCALE/PRINTER
-  LITHIUM BATTERY
-  USE IN COLD STORE

Type	Stacker trucks	Class	Stacker trucks with retractable mast for normal-intensive use
Load capacity (Kg)	1400	Lifting capacity (mm)	8000



## Characteristics

	1.1	Manufacturer			SAMAG
Caratteristiche	1.2	Manufacturer's type designation			Ergon 14
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas			Electric
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker			Seduto
	1.5	Load capacity/rated load	Q	t	1,4
	1.6	Load centre distance	C	mm	600
	1.8	Load distance, centre of drive axle to fork	x	mm	236/246 (1)
		With must in rear position	x2	mm	334/259 (1)
Weight	1.9	Wheelbase	y	mm	1330
	2.1	Service weight (battery included)		Kg	3180 (2)
	2.2	Axle loading, laden (front / rear)		Kg	1429/3241 (2)
	2.3	Axle loading, unladen (front / rear)		Kg	1955/1225 (2)
Wheels and frame	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane			Vulkollan
	3.2	Tyre size, front		mm	343x114
	3.3	Tyre size, rear		mm	300x90
	3.5	Wheels, number front rear (x = driven wheels)			1x+2
	3.7	Tread, rear	b11	mm	1132
Dimensions	4.1	Tilt of mast / fork carriage forward / backward		gradi	3°/5°
	4.2	Height, mast lowered	h1	mm	(see table)
	4.4	Lift	h3	mm	(see table)
	4.5	Height, mast extended	h4	mm	(see table)
	4.6	Initial lift	h5	mm	(see table)
	4.7	Height of overhead guard (cabin)	h6	mm	2070
	4.8	Seat height / stand height	h7	mm	1020
	4.15	Height of forks from ground	h13	mm	85
	4.19	Overall length	l1	mm	1707
	4.20	Length of face of forks	l2	mm	(see table)
	4.21	Larghezza totale	b1	mm	1258
	4.22	Fork dimensions	s/e/l	mm	ISO 2A 35x130x1150
	4.25	External fork widths	b5	mm	691
	4.26	Distance between wheel arms / loading surfaces	b4	mm	900
	4.28	Reach distance	V	mm	580/505
	4.31	Ground clearance, laden, below mast	m1	mm	30
	4.32	Ground clearance, centre of wheelbase	m2	mm	80
	4.34	Aisle width for pallets 800 x 1200 crossways	Ast	mm	(see table)
Performance	4.35	Turning radius	Wa	mm	1548
	5.1	Travel speed (laden / unladen)		Km/h	9,5 / 10,5
	5.2	Lift speed (laden / unladen)		m/s	0,34 / 0,54
	5.3	Lowering speed (laden / unladen)		m/s	0,41 / 0,31
	5.7	Gradeability (laden / unladen)		%	10 / 15
	5.8	Max. gradeability (laden / unladen)		%	10 / 15
	5.10	Service brake			Electric/Hydraulic
Electric motor	6.1	Motore trazione, potenza S2 60'		KW	5 AC
	6.2	Motore sollevamento, prestazione S3 15%		KW	9 AC
		Steering motor		KW	0,4
	6.3	Battery DIN 43531/35/36 A, B, C,			yes
	6.4	Tension / nominal capacity		V / Ah	48 /420
Other data	6.5	Battery weight (± 5%)		Kg	710
	8.1	Control type			Electric
	8.4	Sound level at the driver's ear according to DIN 10 053		dB/(A)	<70

AST comprende "a" (spazio di manovra) = 200 mm

(1) Batterie: Ergon 14 = 420/560 Ah - Ergon 16 = 560/700 Ah

(2) Valori riferiti a H 5200 (Ergon 14) e H 6300 (Ergon 16) con montante ritratto

Traslatore incorporato corsa 75 +75

## Overall dimensions

OVERALL DIMENSIONS OF LIFTING GROUPS				
MODELLO	h3	h1	h4	h5
Ergon 14 - 16	5200	2385	5785	1770
	5800	2585	6385	1970
	6300	2750	6885	2135
	7000	3018	7585	2403
	7500	3184	8085	2569
	8000	3380	8585	2765
Ergon 16	8500	3575	9085	2980
	9000	3770	9585	3155
	9500	3820	9615	3205
PALLET b x d	ERGON 14 BATTERIA 420 Ah Ast	ERGON 14 BATTERIA 560 Ah Ast	ERGON 16 BATTERIA 560 Ah Ast	ERGON 16 BATTERIA 700 Ah Ast
800x800	2400 (2214)	2420 (2289)	2490 (2288)	2490 (2356)
1000x800	2525 (2414)	2420 (2289)	2600 (2488)	2660 (2556)
1200x800	2700 (2614)	2770 (2689)	2780 (2688)	2840 (2756)
<b>NOTA :</b> Per le versioni LR e LRX i valori di Ast cambiano. I valori di Ast fra parentesi sono calcolati senza considerare il raggio "R"				
L2	1206	1281	1281	1350