



**samag**

Maximum **Visibility**

High Technology  
"AC" electronics

Easy Manoeuvrability

Maximum **Comfort**

in a word,

**Ergonomics**

**ERG**



ERGON





#### Options available:

- Button for selecting drive direction applied to the seat in addition to the standard one, useful when the truck travels long distances
- Possibility of weighing the load in the free lift of the mast, in tons (tolerance + - 50 Kg)
- Predisposed for DRIVE-IN application
- Predisposed for cold store application
- Predisposed for reverse buzzer, flashing lamp and working lights
- Predisposed for level selector and fork height visualiser.



Your reach truck series "ERGON" is constructed according to the EEC Directive 98/37.

Maximum comfort united with the most modern alternate current technology: **ERGON** model, the new truck with **retractable mast**, that makes for working in pleasant conditions thanks to its easy manoeuvrability and flexibility. The new truck with retractable mast shows with many big and small details how comfort can be flexible: for the selection of drive direction and for the controlling of the hydraulic functions. No other truck can offer you better flexibility!

**Position of driver** conceived to accommodate operators with different statures and as a result presents the following adjustment possibilities:

- position of the steering wheel;
- position of the seat;
- inclination of the seat backrest;
- spring loaded seat to suit the driver's weight;
- height of the front part of the seat cushion.

**Electrically powered steering system** to ensure maximum comfort to the driver with **360° rotation** to reduce manoeuvring spaces and to invert drive direction, or with a 180° limit (option); elimination of any type of backlash from the steering wheel in case of any bumps against obstacles of the drive wheel.

From the operator's drive position, you have very safe access to all control devices on the truck.

**4 mini joysticks** very easy to use that activate the hydraulic functions: speed of fork lifting, tilting of side shift and mast carriage; these are all regulated with electronic control of the pump motor revs.; the speed of fork lowering, however, is controlled by proportional valve.

**Graphic display for visualising the parameter functions** and can also be set up for level selector for up to 20 depositing and picking levels. The level selector with the function of automatic selection becomes very simple to programme and to use.

**"AC" motors (alternate current)** are without commutator and brushes therefore problems with sparks, heating and wear are eliminated. The big advantage is **very reduced maintenance** and improved control of power use. The coupling is bigger at lower traction speed compared to traditional motors with the same characteristics both with and without load. Also, the inversion of drive direction in counter current is smoother and more uniform.

**4 cylinder Triplex mast with full free view and total free lift as series** for the best visibility possible for the driver during movement and goods handling.

**Tilting and side shift incorporated in the FEM fork carrier plate** for maximum load stability.

**Mast retraction carriage** equipped with shoulder rollers and strips that can be turned over when worn and both adjustable that run on wear resistant tempered steel tracks that can be easily replaced and easily reversible.

**Standard equipment; button for slowing down functions** for lifting and lowering

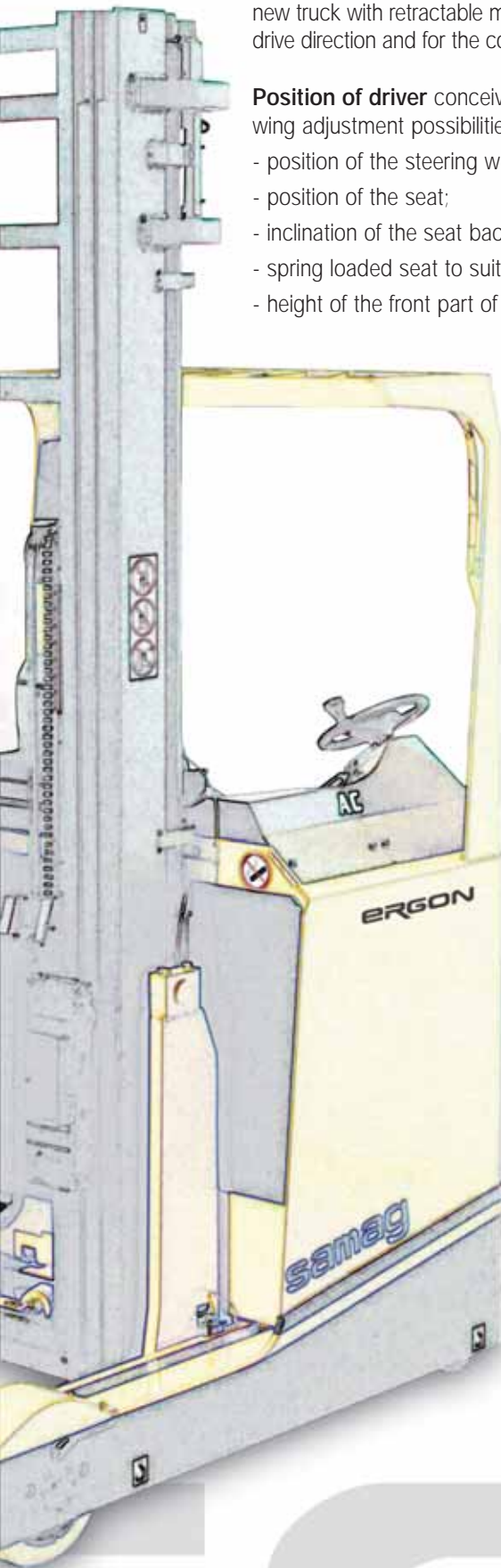
**Electric parking brake**

**Service brake as series:**

- hydraulic pedal brake on the front wheels
- electric brake on release of the accelerator and during drive inversion with energy regain in both cases

**Qualification programme for using the machine**, with **5 access passwords** for so many drivers, if activated.

**Constructed with driving type battery from 48V – 420 Ah to 775 Ah** (maximum amperage)



ERGON



Characteristics	Maker	Firm	SAMAG	SAMAG
	Model	Name	ERGON 14	ERGON 16
Capacity	Q = Load maximum	t	1,4	1,6
Load centre	c = Load centre distance	mm	600	600
Traction	Battery, Diesel, Gas, Electric		Battery	Battery
Steering	Draw bar, Operator standing/seated		Operator seated	Operator seated
Tyres	V = Solid, L = Pneumatic front drive/rear load		V / V	V / V
Wheels (X = driving)	Quantity front/rear		1x / 2	1x / 2

Dimensions	Lift height	H3 = Lift	mm	(see table)	(see table)
		H2 = Standard free lift	mm	-	-
		H5 = Special free lift	mm	(see table)	(see table)
Fork carrier plate	DIN / FEM / ISO / Covering		2A	2A	2A
Forks	s - h - l		35 x 130 x 1150	35 x 130 x 1150	35 x 130 x 1150
Tilting	Forwards / Backwards	degrees	3° / 5°	3° / 5°	3° / 5°
Overall dimensions	L2 = Length including fork support	mm	(see table)	(see table)	(see table)
	B = Total width	mm	1258	1258	1258
	h1 = Height of closed mast	mm	(see table)	(see table)	(see table)
	h4 = Height of extended mast	mm	(see table)	(see table)	(see table)
	h6 = Height over roof	mm	2070	2070	2070
	h7 = Operator seat height	mm	1020	1020	1020
	B1 = Internal width between stabilisers	mm	900	900	900
	B3 = Max. external fork widths	mm	691	691	691
	V = Carriage advancement run <sup>①</sup>	mm	580 / 505	584 / 526	584 / 526
	X2 = From half axis - fork level <sup>①</sup>	mm	334 / 259	348 / 280	348 / 280
	L = Frame length	mm	1707	1797	1797
Turning radius	Wa	mm	1548	1636	1636
Load position	X from middle front axes <sup>①</sup>	mm	246	236 / 246	236 / 246
Aisle width	Ast with pallet 800x1200 longitudinal	mm	(see table)	(see table)	(see table)

Performances	Speed	Movement with/without load	Km/h	9,5 / 10,5	9 / 10
		Lift with/without load	m/s	0,34 / 0,54	0,3 / 0,54
		Lowering with/without load	m/s	0,41 / 0,31	0,42 / 0,31
	Gradient	With/without load (KB 5 min.)	%	10 / 15	10 / 15
	Maximum gradient	With/without load (KB 5 min.)	%	10 / 15	10 / 15

Weight	Weight	Including battery <sup>②</sup>	Kg	3180	3490
	Axle load	With load front/rear <sup>②</sup>	Kg	1429 / 3241	1500 / 3680
		Without load front/rear <sup>②</sup>	Kg	1955 / 1225	2100 / 1390

Traction	Wheels	Quantity front/rear		1 / 2	1 / 2
		Front dimensions	mm	343 x 114	343 x 114
		Rear dimensions	mm	300 x 90	300 x 90
Wheel base	Y	mm	1330	1420	1420
Wheel track	At tyre centres front/rear	mm	1132	1132	1132
Space	With load m1 at lowest point	mm	30	30	30
	With load m2 at centre of wheel base	mm	80	80	80
Service brake	Mechanical / hydraulic / electric / pneumatic		Electric / Hydraulic	Electric / Hydraulic	Electric / Hydraulic
Parking brake	With foot / hand / dead man		Dead man	Dead man	Dead man

Controls	Battery	DIN	NO	NO	NO
		Tension/capacity with 5 hrs. of discharge	V/Ah	48 / 420	48 / 560
		Weight	Kg	710	890
Electric motor	Traction motor power (S2 60 min.)	Kw	5 A.C.	5 A.C.	5 A.C.
	Lift motor power with (S3 15%)	Kw	9 A.C.	9 A.C.	9 A.C.
	Electric steering motor	Kw	0,4 A.C.	0,4 A.C.	0,4 A.C.
Transmission	Type		Electronic A.C.	Electronic A.C.	Electronic A.C.
Drive unit	Type		Gearings	Gearings	Gearings
Work pressure	Maximum pressure	bar	175	190	190
Noise level	Average noise level of human hearing	dB(A)	< 70	< 70	< 70

① Batteries: ERGON 14 420/560 Ah – ERGON 16 560/700 Ah

② Value referring to H=5200 (ERGON 14) and H=6300 (ERGON 16) with carriage retracted

INCORPORATED SIDE SHIFT WITH MOVEMENT = 75+75mm

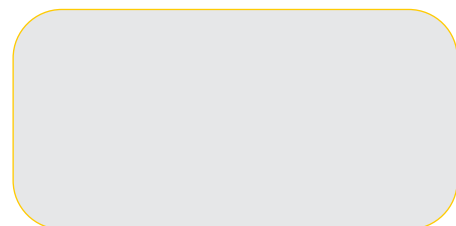
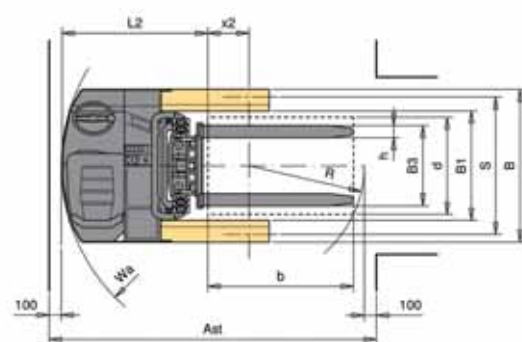
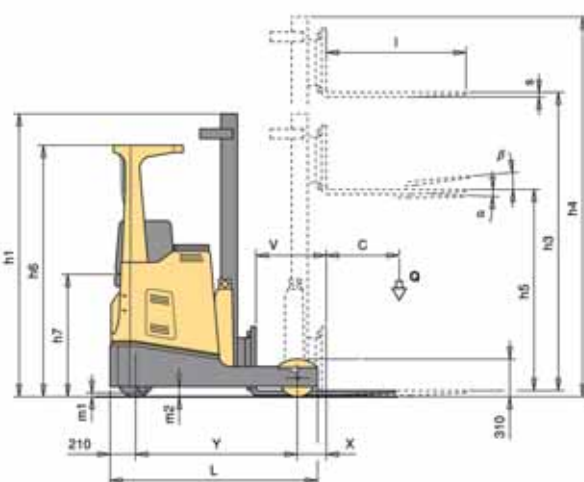
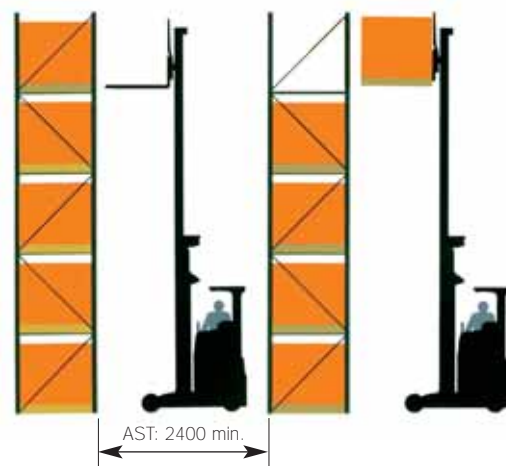
Mod.	h3	h1	h4	h5
ERGON 14-16	4200	2040	4785	1425
ERGON 14-16	5200	2385	5785	1770
ERGON 14-16	5800	2585	6385	1970
ERGON 14-16	6300	2750	6885	2135
ERGON 14-16	7000	3018	7585	2403
ERGON 14-16	7500	3184	8085	2569
ERGON 14-16	8000	3380	8585	2765
ERGON 16	8500	3575	9085	2960
ERGON 16	9000	3770	9585	3155

PALLET b x d	ERGON 14 BATTERY 420 Ah Ast	ERGON 14 BATTERY 560 Ah Ast	ERGON 16 BATTERY 560 Ah Ast	ERGON 16 BATTERY 700 Ah Ast
800x800	2400 (2214)	2420 (2289)	2490 (2288)	2490 (2356)
1000x800	2525 (2414)	2590 (2489)	2600 (2488)	2660 (2556)
1200x800	2700 (2614)	2770 (2689)	2780 (2688)	2840 (2756)

NOTE: For versions LR and LRX, the Ast values change.

The Ast values in brackets are calculated without considering the "R" range.

L2	1206	1281	1281	1350
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CE

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