



PIATTAFORME AEREE SEMOVENTI
SELF-PROPELLED WORK-PLATFORMS
PLATES-FORMES DE TRAVAIL AUTOMOTRICES
SELBSTFAHRENDE HUBARBEITSBÜHNEN
PLATAFORMAS ELEVADORAS AUTOPROPULSADAS
ZELFRIJDENDE HOOGWERKERS
SJÄLVGÅENDE ARBETSPLATTFORMAR
SAMOKRETNE RADNE PLATFORME

SERIES „X“ - „XS“

**X8 EW WIND - X8 EN - X10 EW - X10 EW WIND - X10 EN - X12 EW
X12 EW WIND - X12 EN - X14 EW - X14 EN - X16 EW
XS7 E RESTYLING - XS8 E RESTYLING LIGHT - XS8 E RESTYLING
XS8 E RESTYLING WIND - XS9 E RESTYLING**



USE AND MAINTENANCE MANUAL **- ENGLISH - ORIGINAL INSTRUCTIONS**

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2010-01	<ul style="list-style-type: none"> • Update due to new machine directive 2006/42/EC. • Model names updated.
2010-11	<ul style="list-style-type: none"> • Biodegradable oil instructions introduced. • Temperatures and oil list updated.
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2012-01	<ul style="list-style-type: none"> • Overload controller bypass: added reset of leaded seal.
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2013-04	<ul style="list-style-type: none"> • New model X8 EW WIND added. • "transport dimensions" updated. • Amended inclinometer alarm operation description (red light-audible alarm).
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2015-01	<ul style="list-style-type: none"> • CE conformity declaration updated. • Added position of hands instruction
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2017-05	<ul style="list-style-type: none"> • Added new model X14 EN.
2017-08	<ul style="list-style-type: none"> • Added new model X16 EW. • Updated technical details XS SERIES: wheel dimensions updated.
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2019-07	<ul style="list-style-type: none"> • Updated procedure description of commissioning declaration in Italy.
2019-10	<ul style="list-style-type: none"> • Added hydraulic scheme X16 EW.
2019-12	<ul style="list-style-type: none"> • Added procedure for sectioned rails.
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Tigieffe thanks you for purchasing a product of its range, and invites you to read this manual. Here you can find all the necessary information for a correct use of the purchased machine. Therefore, you are advised to follow the instructions carefully and to read the manual thoroughly. The manual should be kept in a suitable place where no damage can occur to it. The content of this manual may be modified without prior notice and further obligations in order to add changes and improvements to the units already delivered. No reproduction or translation may take place without the written permission of the owner.

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1. INTRODUCTION

This Use and Maintenance Manual provides general instructions concerning the complete range of machines indicated on the cover. Therefore the description of their components, as well as control and safety systems, may include parts not present on your machine since supplied on request or not available. In order to keep pace with the technical development **AIRO-Tigieffe s.r.l.** reserves the right to modify the product and/or the use and maintenance manual at any time without updating the units already delivered.

1.1 Legal aspects

1.1.1 Delivery of the machine

Within EU (European Union) member countries the machine is delivered complete with:

- Use and Maintenance manual in your language
- CE mark applied on the machine
- CE conformity declaration
- Guarantee certificate
- Declaration of internal testing

Only for Italy:

- Instructions on commissioning declaration with INAIL and on the application for the first periodic check on the INAIL portal.

It is to be noted that the Use and Maintenance Manual is an integral part of the machine and a copy of this, together with copies of the documents certifying that the periodical checks have been carried out, must be kept on board in its suitable container. In the event of a transfer of ownership the machine must always be provided with its use and maintenance manual.

1.1.2 Declaration of commissioning, first check, further periodical checks and transfers of ownership

The legal obligations of the owner of the machine vary according to the country of commissioning. It is therefore recommended to inquire about the procedures in force in your country from the boards responsible for industrial safety. This manual contains a final section called "Check register" for a better filing of documents and recording of any modifications.

1.1.2.1 Declaration of commissioning and first check

In ITALY the owner of the Aerial Platform must notify the use of the machine to the local competent INAIL and submit it to periodical compulsory checks. The first of such checks is performed by the INAIL within sixty days from a request being made. In the event of such time passing without the inspection being made, the employer can call in the ASL (Local Health Unit) or qualified public or private services. Subsequent checks are made by the already-mentioned parties within thirty days from a request being made. In the event of such time passing without these checks being made, the employer can call in qualified public or private services. The checks are on a payment basis and the employer (machine owner) will be charged for them. For these checks, the territorial inspection boards (ASL/USL or ARPA) and INAIL can be supported by qualified public or private services. The qualified private institutes acquire the qualification of responsible for the public service and refer directly to the public structure that controls this function.

For the commissioning declaration in Italy it is necessary to login to the INAIL portal. Follow the instructions delivered together with other documents during the machine delivery, as well as the information about the portal.

The INAIL will assign a serial number when the First Check is performed before completing the "technical identification sheet" on which it indicates only the details obtained from the already-operating machine or obtainable from the instruction manual. Such document shall form an integral part of the machine documentation.

1.1.2.2 Further periodical checks

Yearly checks are compulsory. In Italy the owner of the Aerial Platform must apply for a periodical check by sending a registered letter to the local competent inspection board (ASL/USL or other qualified public or private services) at least twenty days before the expiry of the year from the last check.

NB: If a machine without a valid control document should be moved in an area outside the competence of the usual inspection board, the owner of the machine must ask the inspection board, competent for the new territory where the machine is to be used, for the annual check.

1.1.2.3 Transfers of ownership

In case of transfer of ownership (in Italy) the new owner of the Aerial Platform must notify the ownership of the machine to the local competent inspection board (ASL/USL or other qualified public or private services) by enclosing a copy of:

- Declaration of conformity issued by the manufacturer.
- Declaration of commissioning carried out by the first owner.

1.1.3 Operators training and information

The employer must ensure that the workers appointed to use the equipment are adequately and specifically trained so they are able to use the Mobile Elevating Work Platform in a proper and safe way and also avoid the risks caused by other people.

1.2 Tests performed before delivery

Before being placed on the market, each MEWP undergoes the following tests:

- Braking test
- Overload test
- Operating test

1.3 Intended use

The machine described in this use and maintenance manual is a self-propelled aerial platform intended for lifting persons and materials (equipment and work materials) in order to carry out maintenance, installation, cleaning, painting, de-painting, sand-blasting, welding operations, etc.

The max. capacity allowed (which varies according to the model – see paragraph "Technical features") is divided as follows:

- 80 Kg for each person on board
- 40 Kg for equipment.
- Any remaining load is represented by the work materials.

In any case NEVER exceed the maximum capacity allowed as indicated in paragraph "Technical features". Persons, tools and work materials can be loaded on the platform only from the access position (platform lowered). It is absolutely forbidden to load persons, tools and work materials on the platform when it is not in access position.

All loads must be positioned inside the platform. Do not lift loads (even if complying with the maximum capacity allowed) hanging from the platform or lifting structure.

Do not carry large-sized panels since they increase the resistance to wind force thus causing the machine to overturn.

While the machine is being displaced with lifted platform, no horizontal loads can be loaded onto the platform (operators on board are not allowed to pull wires or ropes, etc.).

An overload controller stops the operation of the machine if the load on the platform exceeds by 20% approx. the nominal load (see chapter "General use rules") and platform is lifted.

The machine cannot be used in areas where road vehicles operate. Always surround the working area by means of suitable signs when the machine is used in public areas.

Do not use the machine to tow trucks or other vehicles.

All types of machine use other than those for which it was designed must be approved in writing by the machine manufacturer following a specific request on the part of the user.



Do not use the machine for purposes other than those for which it was designed, except after making a request and having obtained written permission in this sense from the manufacturer

1.3.1 Leaving at height

The work elevating platforms are not designed by taking into account the risks of the “leaving at height” because the only access position considered is when the platform is completely lowered. For this reason this activity is formally forbidden. However, there are exceptional conditions in which the operator needs to access or leave the work platform not in the access position. This activity is normally defined as “leaving at height”.

The risks connected to the “leaving at height” do not depend exclusively on the PLE (work elevating platform) characteristics; a specific risk analysis carried out by the employer can authorize this specific use by taking into account:

- The working environment characteristics;
- The absolute prohibition to consider the work platform as an anchoring point for people working outdoors;
- The use of the machine at xx% of its performances to avoid that additional forces created by a specific operation or bending of the structure move away the access zone from the unloading zone. Provide for some tests in order to define these limitations;
- Provide for a specific evacuation procedure in case of emergency (for example: an operator always on the platform, one at the ground control panel while a third operator leaves the lifted platform);
- Provide for a specific training of the staff both as operator and transported staff;
- Equip the unloading zone with all the devices that are necessary to avoid the risk of fall of the staff that accesses/leaves the platform.

What said above is not a formal authorization of the manufacturer for the “leaving at height”, but it wants to supply information to the employer - who is fully responsible for that - which can be useful for the planning of this exceptional activity.

1.4 Description of the machine

The machine described in this use and maintenance manual is a self-propelled elevating work platform equipped with:

- Motorized chassis equipped with wheels
- Vertical scissor lifting structure operated by one or more hydraulic cylinders (the number of cylinders varies according to machine model)
- Operator platform with manual slide-out extension deck (the max. capacity varies according to the model - see chapter “**Technical features**”)

The chassis is motorised to allow the machine to move (see “Use instructions”) and has two rear idle wheels and two front driving and steering wheels. The rear wheels are equipped with hydraulic parking brakes, positive logic type (when drive controls are released brakes are automatically activated).

The hydraulic cylinders which move the articulated structure are provided with solenoid safety valves directly flanged on the same. These devices allow the booms to remain in position even if one of the supply tubes accidentally breaks.

The platform, which can be manually extended from the front side, is equipped with rails and toe-boards of a prescribed height (the height of the rails is 1100 mm; the height of the toe-boards is 150 mm, the entrance area has a toe-board of at least 100 mm).

When no motive power is available, the manual emergency lowering can be controlled enabling the knob manually from the ground (see instructions plates).

The allowed capacity on the platform does not change depending on the position of the extension deck.

1.5 Control panels

The machine is equipped with two control panels:

- on the platform for normal use of the machine
- on the chassis you can find: the emergency controls to lower or stop the platform and the emergency stop button, a key-selector to select the control panel and to start the machine.

1.6 Drive power

The machines are powered by an electro-hydraulic system consisting of rechargeable accumulators and electric pump. Both the hydraulic and the electric systems are equipped with all necessary protections (see electric and hydraulic circuit diagrams annexed to this manual).

1.7 Machine life, demolition and decommissioning

The machine has been designed to last for 10 years in normal operating environments, if properly used and serviced. Within this period, the manufacturer must carry out a complete inspection/overhaul.

If disposal of the unit is necessary, comply with current local regulations.

In Italy, the demolition/decommissioning must be notified to the local ASL / USL or ARPA.

The machine consists mainly of metal parts which are easy to be identified (steel for the most parts, and aluminium for the hydraulic blocks); thus, we can state that the machine can be recycled at 90%.



European standards and those transposed by the member countries relating to respect for the environment and the disposal of wastes envisage heavy administrative and penal fines in case of infringement.

In case of demolition/decommissioning, carefully keep to the provisions of applicable regulations, especially as regards materials such as hydraulic oil and batteries.

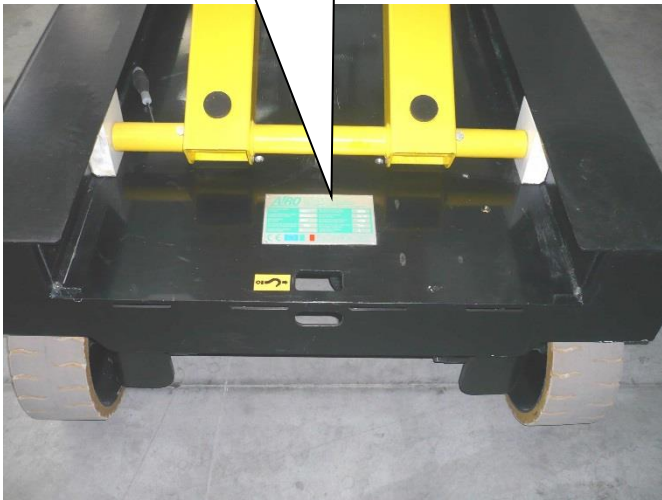
1.8 Identification

In order to identify the machine, when spare parts and service are required, always mention the information given in the serial number plate. Should this plate (as well as the various stickers applied on the machine) be lost or illegible, it is to be replaced as soon as possible. In order to identify the machine when no plate is available the serial number is also stamped on the chassis. To locate the plate and the stamp of the serial number, see the following picture. It is recommended to copy such data in the following boxes.

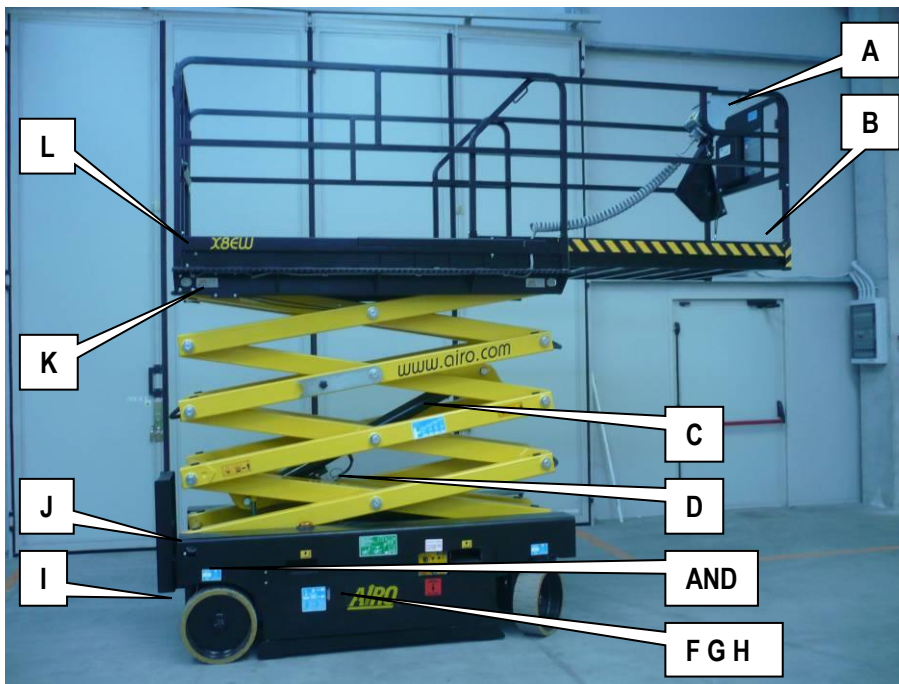
MODEL: _____	CHASSIS: _____	YEAR: _____
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SF xx.xx.xx

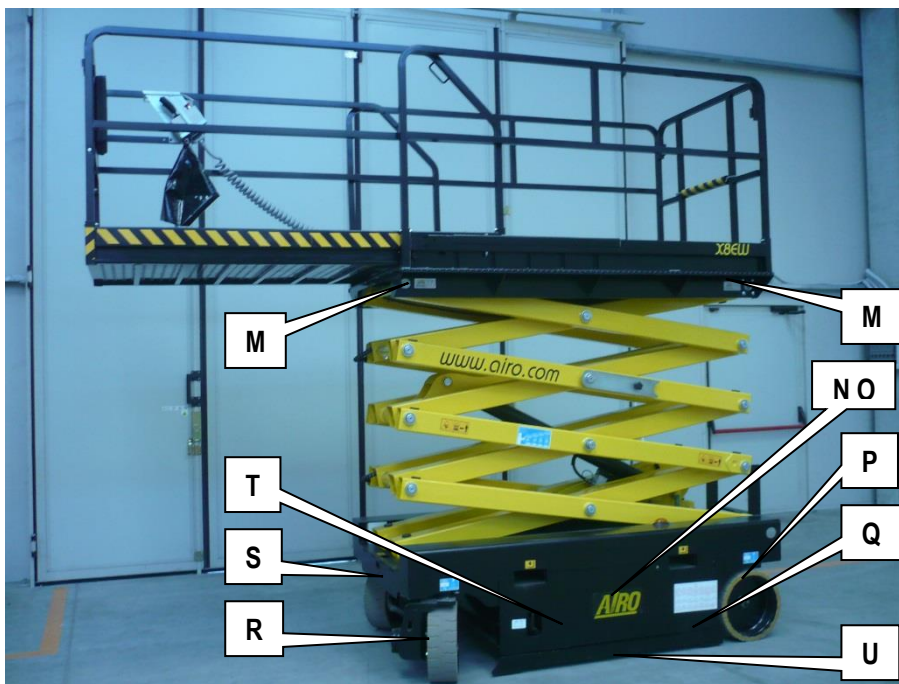


1.9 Location of main components



1-1: Right view

- A. Platform control panel
- B. Spirit level (optional) for visual check of platform levelling
- C. Lifting cylinder
- D. Lowering control valve
- E. Ground control panel
- F. Electric control unit and inclinometer
- G. Tank
- H. Electric pump
- I. Manual device for emergency lowering
- J. Platform height control M1 microswitch
- K. Electronic board of platform overload controller
- L. 230V socket (optional)
- M. Overload controller sensors
- N. Batteries
- O. Battery charger
- P. Parking brakes
- Q. MPT1 and MPT2 microswitches to control the position of the pot-hole guards
- R. Hydraulic drive motors
- S. Steering cylinder
- T. Bipolar power connector
- U. Pot-hole guards



1-2: Left view

2. TECHNICAL FEATURES OF STANDARD MACHINES



THE TECHNICAL FEATURES OF THE PRODUCTS IN THE FOLLOWING PAGES CAN BE MODIFIED WITHOUT PRIOR NOTICE

2.1 Model XS7 E RESTYLING

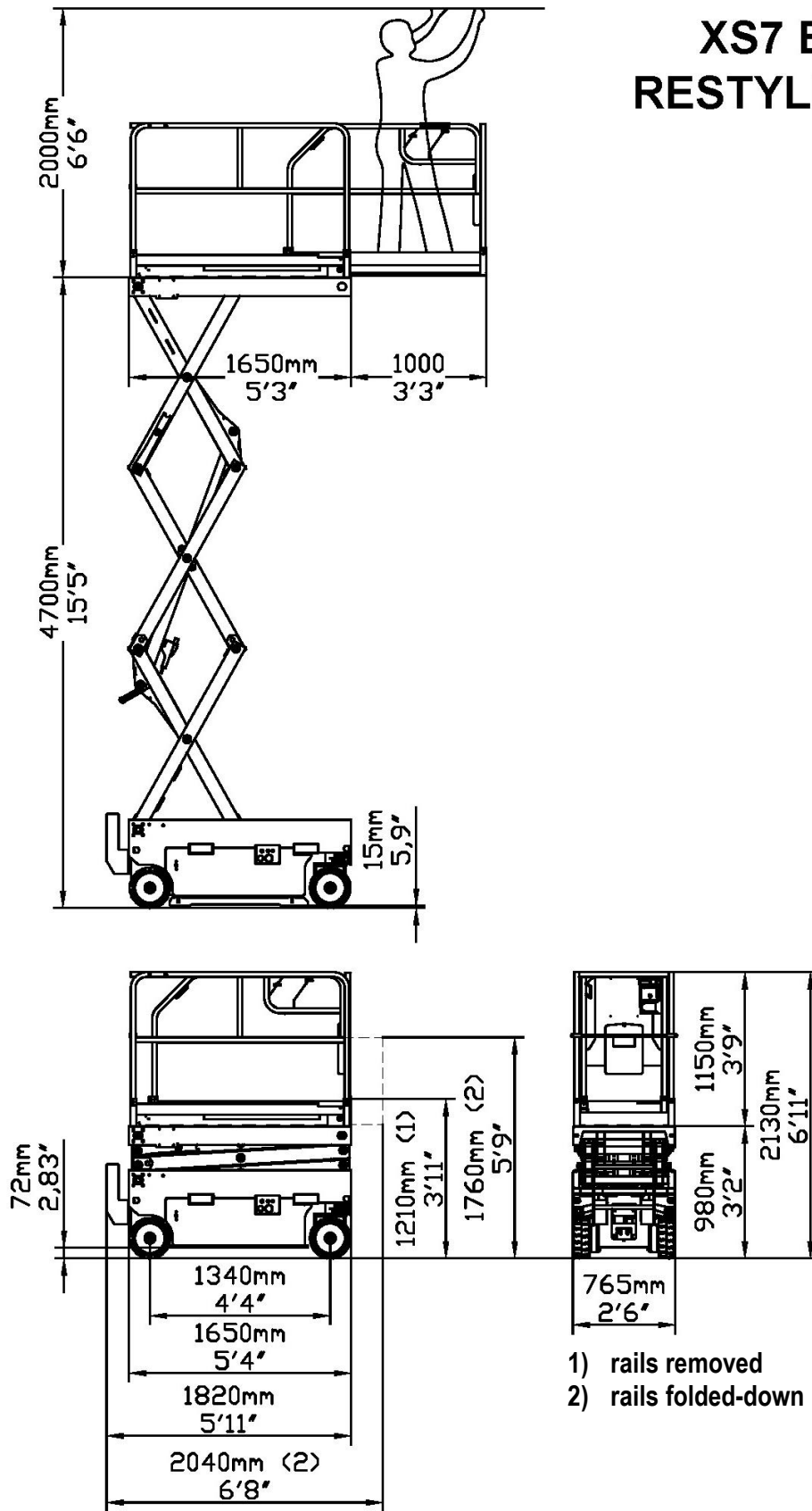
Dimensions:		XS7 E RESTYLING			
Maximum working height	6.70	m	21 '9"	ft	
Max. platform height	4.70	m	15 '4"	ft	
Ground clearance (pot-hole guards lifted)	72	mm	28"	in	
Ground clearance (pot-hole guards lowered)	15	mm	5.9"	in	
Platform height for safety speed activation	1.40	m	4 '5"	ft	
Internal steering radius	0.60	m	1 '9"	ft	
External steering radius	2.05	m	6 '7"	ft	
Maximum capacity (m)	250	kg	551.5	lbs	
Max. number of people on the platform (n) – indoors	2		2		
Tool and material weight (me) ** – indoors	90	kg	198.4	lbs	
Max. number of people on the platform (n) – outdoors	-		-		
Tool and material weight (me) ** – outdoors	-		-		
Maximum slide-out extension deck	1	m	3 '2"	ft	
Maximum capacity on deck extension	250	kg	551.5	lbs	
Maximum amount of people on deck extension	2		2		
Maximum drive height	Max		Max		
Maximum platform dimensions (extended)	0.76 x 2.65	m	2 '4" x 98 '6"	ft	
Max. hydraulic pressure	260	bar	3770.9	psi	
Max. pressure of lifting circuit	160	bar	2320.6	psi	
Min. pressure of braking circuit	65 ÷ 70	bar	942.7 ÷ 1015.2	psi	
Tyre dimensions	Ø305-100	mm	Ø12.0"-v3.9"	in	
Type of tyres	Cushion soft		Cushion soft		
Transport dimensions with removable rails installed *	0.765 x 1.82 x 2.13	m	2 '5"x5 '9"x 6 '9"	ft	
Transport dimensions with removable rails not installed *	0.765 x 1.82 x 1.21	m	2 '5"x5 '9"x 3 '9"	ft	
Transport dimensions with folded-down rails (optional) *	0.765 x 2.04 x 1.76	m	2 '5"x6 '6"x 5 '7"	ft	
Machine weight (unloaded)	1430	kg	3152.6	lbs	
Stability limit:					
Longitudinal inclination	2	°	2	°	
Transversal inclination	2	°	2	°	
Maximum wind speed	0	m/s	0	mph	
Maximum manual force:	400	N	90	lbf	
Max. load per wheel	850	Kg	1800	lbs	
Performance:					
Standard battery capacity and voltage	4 x 6 / 200	V/Ah	4 x 6 / 200	V/Ah	
Total electrolyte quantity of standard battery	4 x 6.4	Lt.	1.0 x 1.6	gal	
Standard battery weight	4 x 32	kg	8.8 x 70.5	lbs	
Optional battery capacity and voltage	N.A.	V/Ah	N.A.	V/Ah	
Total electrolyte quantity of optional battery	N.A.	Lt.	N.A.	gal	
Optional battery weight	N.A.	kg	N.A.	lbs	
Single-phase battery charger	24/25 HF	V/A	24/25 HF	V/A	
Max. current absorbed by the battery charger	12	A	12	A	
Electric pump power	3	kW	4.0	hp	
Max. absorbed current	160	A	160	A	
Max. drive speed	3.6	km/h	2.2	mph	
Safety drive speed	0.6	km/h	0.4	mph	
Lowering/lifting time (unloaded)	15 / 22	Sec.	15 / 22	Sec.	
Oil tank capacity	20	Lt.	5	gal	
Gradeability	30	%	30	%	
Max. operating temperature	+50	°C	122	°F	
Min. operating temperature	-15	°C	5	°F	

(*) removing the ladder, the machine overall dimensions are further reduced (length reduced by 0.17 m)

(**) me = m – (n x 80)



XS7 E RETYLING



2.2 Model XS8 E RESTYLING LIGHT

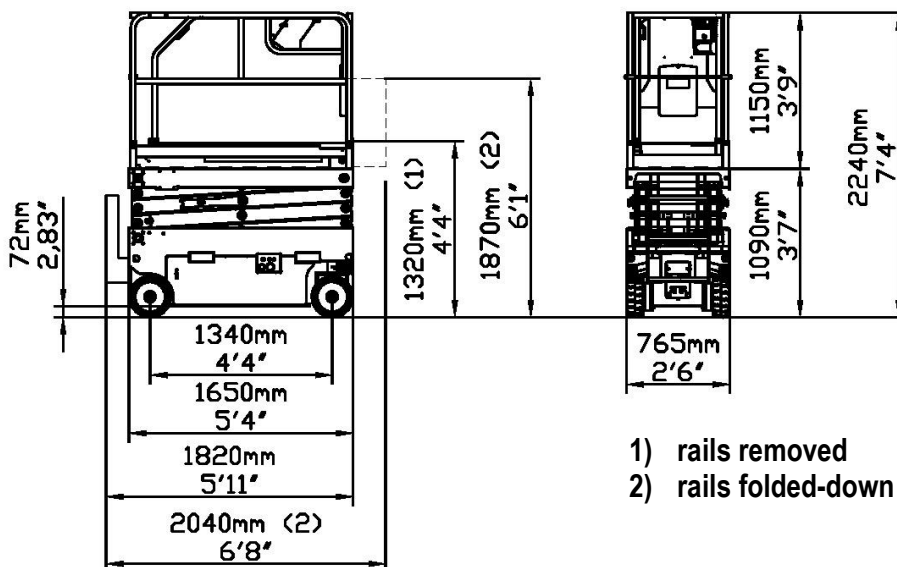
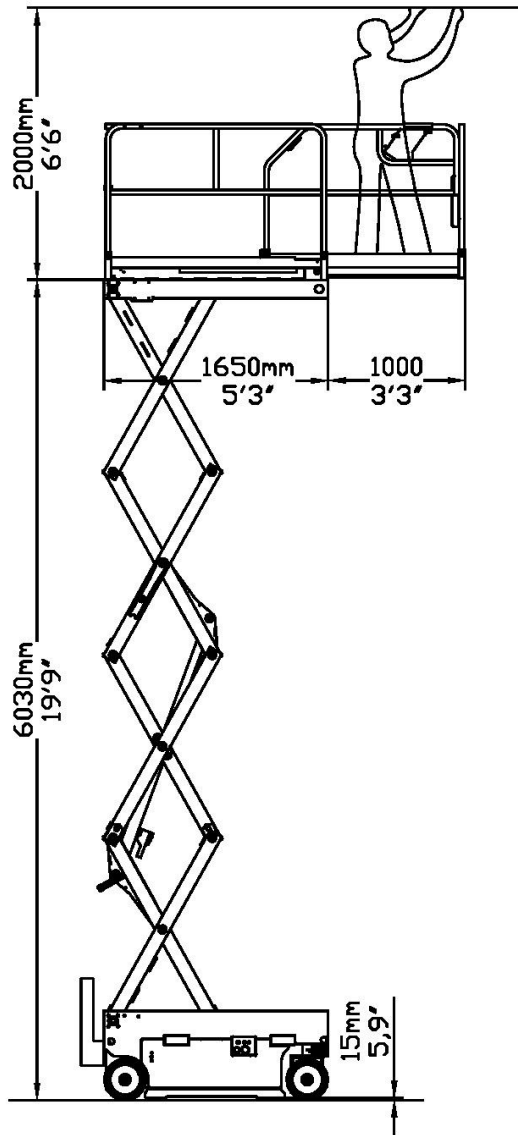
Dimensions:		XS8 E RESTYLING LIGHT			
	Maximum working height	8.03	m	26 '3"	ft
	Max. platform height	6.03	m	19 '7"	ft
	Ground clearance (pot-hole guards lifted)	72	mm	28"	in
	Ground clearance (pot-hole guards lowered)	15	mm	5.9"	in
	Platform height for safety speed activation	1.80	m	4 '5"	ft
	Internal steering radius	0.60	m	1 '9"	ft
	External steering radius	2.05	m	6 '7"	ft
	Maximum capacity (m)	250	kg	551.5	lbs
	Max. number of people on the platform (n) – indoors	2		2	
	Tool and material weight (me) ** – indoors	90	kg	198.4	lbs
	Max. number of people on the platform (n) – outdoors	-		-	
	Tool and material weight (me) ** – outdoors	-		-	
	Maximum slide-out extension deck	1	m	3 '2"	ft
	Maximum capacity on deck extension	250	kg	551.5	lbs
	Maximum amount of people on deck extension	2		2	
	Maximum drive height	Max		Max	
	Maximum platform dimensions (extended)	0.76 x 2.65	m	2 '4" x 98 '6"	ft
	Max. hydraulic pressure	260	bar	3770.9	psi
	Max. pressure of lifting circuit	210	bar	2320.6	psi
	Min. pressure of braking circuit	65 ÷ 70	bar	942.7 ÷ 1015.2	psi
	Tyre dimensions	Ø305-100	mm	Ø12.0"-v3.9"	in
	Type of tyres	Cushion soft		Cushion soft	
	Transport dimensions with removable rails installed *	0.765 x 1.82 x 2.24	m	2 '5"x5 '9"x 6 '9"	ft
	Transport dimensions with removable rails not installed *	0.765 x 1.82 x 1.32	m	2 '5"x5 '9"x 3 '9"	ft
	Transport dimensions with folded-down rails (optional) *	0.765 x 2.04 x 1.87	m	2 '5"x6 '6"x 5 '7"	ft
	Machine weight (unloaded)	1520	kg	3351.0	lbs
Stability limit:					
	Longitudinal inclination	2	°	2	°
	Transversal inclination	1.3	°	1.3	°
	Maximum wind speed	0	m/s	0	mph
	Maximum manual force:	400	N	90	lbf
	Max. load per wheel	900	Kg	1900	lbs
Performance:					
	Standard battery capacity and voltage	4 x 6 / 200	V/Ah	4 x 6 / 200	V/Ah
	Total electrolyte quantity of standard battery	4 x 6.4	Lt.	1.0 x 1.6	gal
	Standard battery weight	4 x 32	kg	8.8 x 70.5	lbs
	Optional battery capacity and voltage	N.A.	V/Ah	N.A.	V/Ah
	Total electrolyte quantity of optional battery	N.A.	Lt.	N.A.	Lt.
	Optional battery weight	N.A.	kg	N.A.	kg
	Single-phase battery charger	24/25 HF	V/A	24/25 HF	V/A
	Max. current absorbed by the battery charger	12	A	12	A
	Electric pump power	3	kW	4.0	hp
	Max. absorbed current	160	A	160	A
	Max. drive speed	3.6	km/h	2.2	mph
	Safety drive speed	0.6	km/h	0.4	mph
	Lowering/lifting time (unloaded)	17 / 24	Sec.	17 / 22	Sec.
	Oil tank capacity	20	Lt.	5	gal
	Gradeability	29	%	30	%
	Max. operating temperature	+50	°C	122	°F
	Min. operating temperature	-15	°C	5	°F

(*) removing the ladder, the machine overall dimensions are further reduced (length reduced by 0.17 m)

(**) me = m – (n x 80)



XS8 E RETYLING LIGHT



- 1) rails removed
- 2) rails folded-down

2.3 Model XS8 E RESTYLING

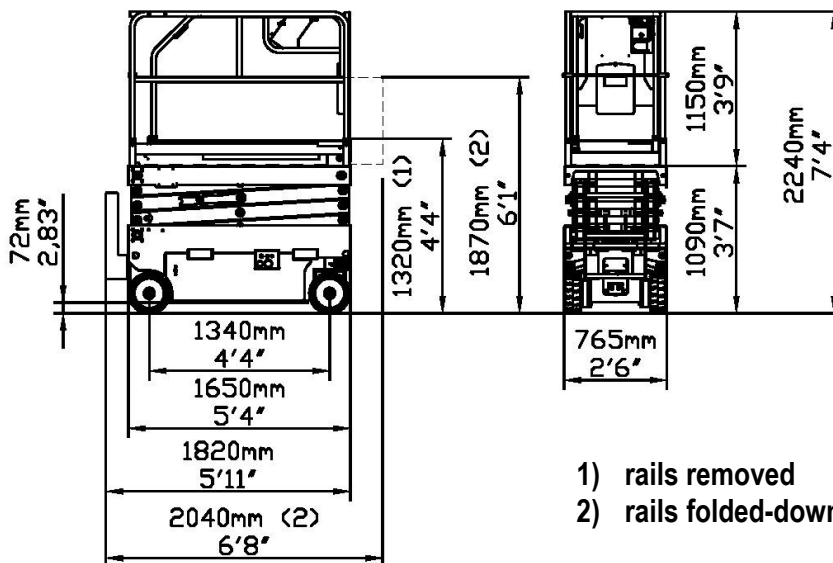
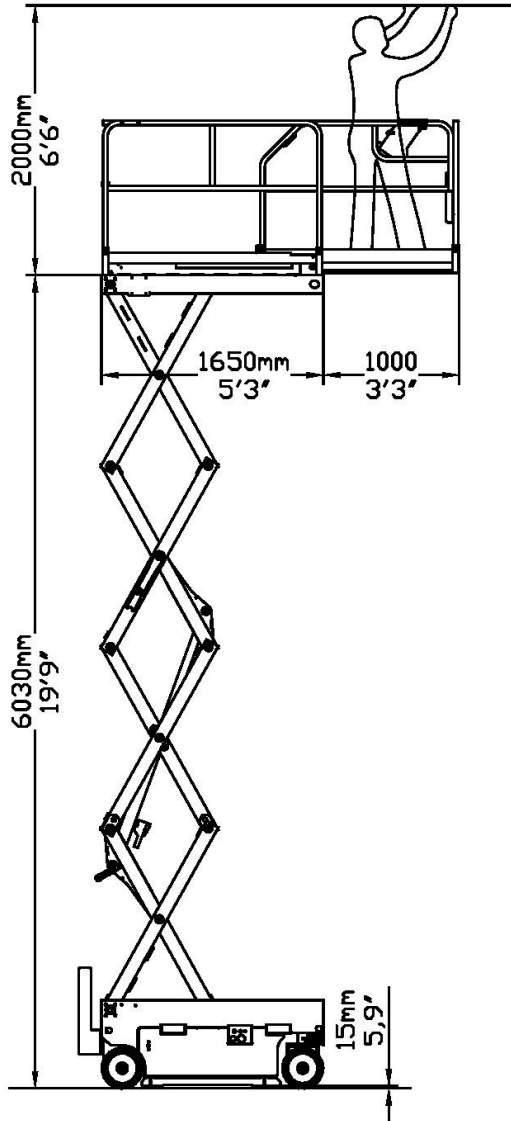
Dimensions:		XS8 E RESTYLING			
Maximum working height	8.03	m	26 '3"	ft	
Max. platform height	6.03	m	19 '7"	ft	
Ground clearance (pot-hole guards lifted)	72	mm	28"	in	
Ground clearance (pot-hole guards lowered)	15	mm	5.9"	in	
Platform height for safety speed activation	1.80	m	5 '9"	ft	
Internal steering radius	0.60	m	1 '9"	ft	
External steering radius	2.05	m	6 '7"	ft	
Maximum capacity (m)	250	kg	551.5	lbs	
Max. number of people on the platform (n) – indoors	2		2		
Tool and material weight (me) ** – indoors	90	kg	198.4	lbs	
Max. number of people on the platform (n) – outdoors	-		-		
Tool and material weight (me) ** – outdoors	-		-		
Maximum slide-out extension deck	1	m	3 '2"	ft	
Maximum capacity on deck extension	250	kg	551.5	lbs	
Maximum amount of people on deck extension	2		2		
Maximum drive height	Max		Max		
Maximum platform dimensions (extended)	0.76 x 2.65	m	2 '4" x 98 '6"	ft	
Max. hydraulic pressure	260	bar	3770.9	psi	
Max. pressure of lifting circuit	210	bar	2320.6	psi	
Min. pressure of braking circuit	65 ÷ 70	bar	942.7 ÷ 1015.2	psi	
Tyre dimensions	Ø305-100	mm	Ø12.0"-v3.9"	in	
Type of tyres	Cushion soft		Cushion soft		
Transport dimensions with removable rails installed *	0.765 x 1.82 x 2.24	m	2 '5"x5 '9"x 7 '3"	ft	
Transport dimensions with removable rails not installed *	0.765 x 1.82 x 1.32	m	2 '5"x5 '9"x 3 '9"	ft	
Transport dimensions with folded-down rails (optional) *	0.765 x 2.04 x 1.87	m	2 '5"x6 '6"x 5 '7"	ft	
Machine weight (unloaded)	1770	kg	3902.1	lbs	
Stability limit:					
Longitudinal inclination	2	°	2	°	
Transversal inclination	2	°	2	°	
Maximum wind speed	0	m/s	0	mph	
Maximum manual force:	400	N	90	lbf	
Max. load per wheel	1000	Kg	2200	lbs	
Performance:					
Standard battery capacity and voltage	4 x 6 / 200	V/Ah	4 x 6 / 200	V/Ah	
Total electrolyte quantity of standard battery	4 x 6.4	Lt.	1.0 x 1.6	gal	
Standard battery weight	4 x 32	kg	8.8 x 70.5	lbs	
Optional battery capacity and voltage	N.A.	V/Ah	N.A.	V/Ah	
Total electrolyte quantity of optional battery	N.A.	Lt.	N.A.	gal	
Optional battery weight	N.A.	kg	N.A.	lbs	
Single-phase battery charger	24/25 HF	V/A	24/25 HF	V/A	
Max. current absorbed by the battery charger	12	A	12	A	
Electric pump power	3	kW	4.0	hp	
Max. absorbed current	160	A	160	A	
Max. drive speed	3.6	km/h	2.2	mph	
Safety drive speed	0.6	km/h	0.4	mph	
Lowering/lifting time (unloaded)	17 / 24	Sec.	17 / 22	Sec	
Oil tank capacity	20	Lt.	5	gal	
Gradeability	24	%	30	%	
Max. operating temperature	+50	°C	122	°F	
Min. operating temperature	-15	°C	5	°F	

(*) removing the ladder, the machine overall dimensions are further reduced (length reduced by 0.17 m)

(**) me = m – (n x 80)



XS8 E RETYLING



- 1) rails removed
- 2) rails folded-down

2.4 Model XS8 E RESTYLING - WIND

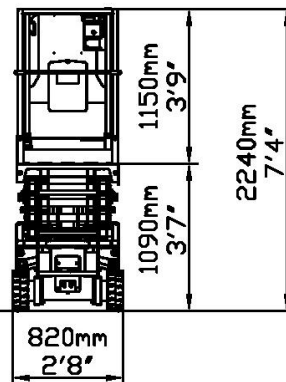
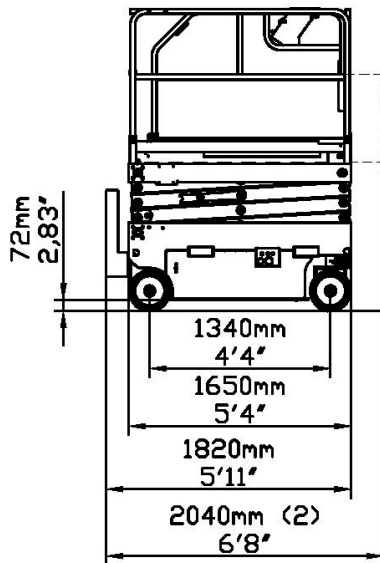
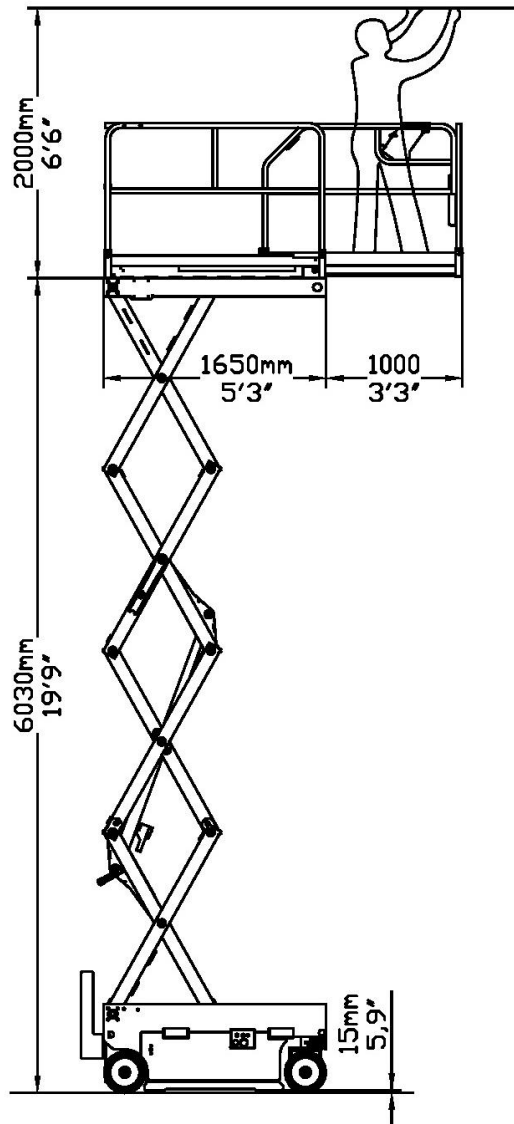
Dimensions:		XS8 E RESTYLING WIND			
Maximum working height		8.03	m	26 '3"	ft
Max. platform height		6.03	m	19 '7"	ft
Ground clearance (pot-hole guards lifted)		72	mm	28"	in
Ground clearance (pot-hole guards lowered)		15	mm	5.9"	in
Platform height for safety speed activation		1.80	m	5 '9"	ft
Internal steering radius		0.60	m	1 '9"	ft
External steering radius		2.05	m	6 '7"	ft
Maximum capacity (m)		250	kg	551.5	lbs
Max. number of people on the platform (n) – indoors		2		2	
Tool and material weight (me) ** – indoors		90	kg	198.4	lbs
Max. number of people on the platform (n) – outdoors		1		-	
Tool and material weight (me) ** – outdoors		170	kg	-	lbs
Maximum slide-out extension deck		1	m	3 '2"	ft
Maximum capacity on deck extension		250	kg	551.5	lbs
Maximum amount of people on deck extension - indoors		2		2	
Maximum amount of people on deck extension - outdoors		1		Max	
Maximum drive height		Max		2 '4" x 98 '6"	
Maximum platform dimensions (extended)		0.76 x 2.65	m	3770.9	ft
Max. hydraulic pressure		260	bar	2320.6	psi
Max. pressure of lifting circuit		210	bar	942.7 ÷ 1015.2	psi
Min. pressure of braking circuit		65 ÷ 70	bar	Ø12.0"-v3.9"	psi
Tyre dimensions		Ø305-100	mm	Cushion soft	in
Type of tyres		Cushion soft		2 '5"x5 '9"x 7 '3"	
Transport dimensions with removable rails installed *		0.82 x 1.82 x 2.24	m	2 '5"x5 '9"x 3 '9"	ft
Transport dimensions with removable rails not installed *		0.82 x 1.82 x 1.32	m	2 '5"x6 '6"x 5 '7"	ft
Transport dimensions with folded-down rails (optional) *		0.82 x 2.04 x 1.87	m	3902.1	ft
Machine weight (unloaded)		1770	kg	26 '3"	lbs
Stability limit:					
Longitudinal inclination		2	°	2	°
Transversal inclination		1.5	°	1.5	°
Maximum wind speed		12.5	m/s	27.96	mph
Maximum manual force - indoors		400	N	90	lbf
Maximum manual force - outdoors		200	N	45	lbf
Max. load per wheel		1000	Kg	2200	lbs
Performance:					
Standard battery capacity and voltage		4 x 6 / 200	V/Ah	4 x 6 / 200	V/Ah
Total electrolyte quantity of standard battery		4 x 6.4	Lt.	4x2	gal
Standard battery weight		4 x 32	kg	4x71	lbs
Optional battery capacity and voltage		N.A.	V/Ah	N.A.	V/Ah
Total electrolyte quantity of optional battery		N.A.	Lt.	N.A.	gal
Optional battery weight		N.A.	kg	N.A.	lbs
Single-phase battery charger		24/25 HF	V/A	24/25 HF	V/A
Max. current absorbed by the battery charger		12	A	12	A
Electric pump power		3	kW	4	hp
Max. absorbed current		160	A	160	A
Max. drive speed		3.6	km/h	2.2	mph
Safety drive speed		0.6	km/h	0.4	mph
Lowering/lifting time (unloaded)		17 / 24	Sec.	17 / 24	Sec.
Oil tank capacity		20	Lt.	5	gal
Gradeability		24	%	24	%
Max. operating temperature		+50	°C	122	°F
Min. operating temperature		-15	°C	5	°F

(*) removing the ladder, the machine overall dimensions are further reduced (length reduced by 0.17 m)

(**) me = m – (n x 80)



XS8 E RETYLING WIND



- 1) rails removed
- 2) rails folded-down

2.5 Model XS9 E RESTYLING

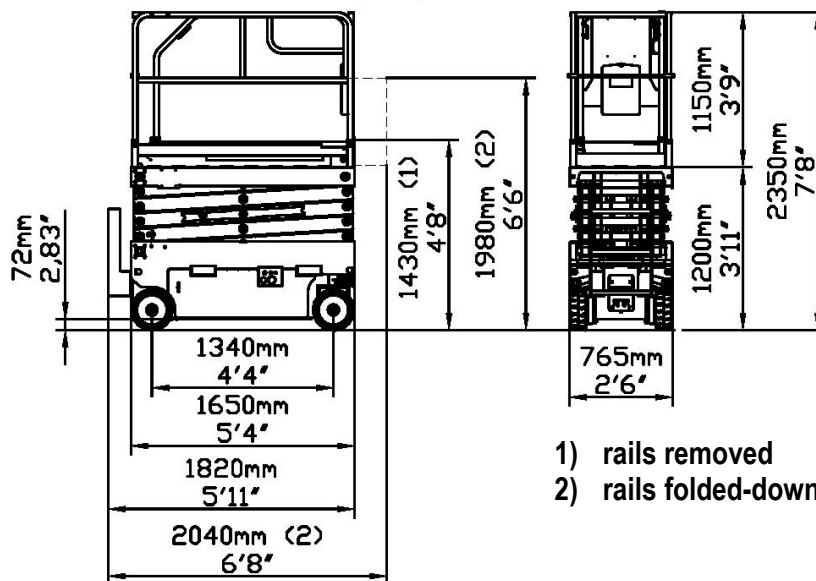
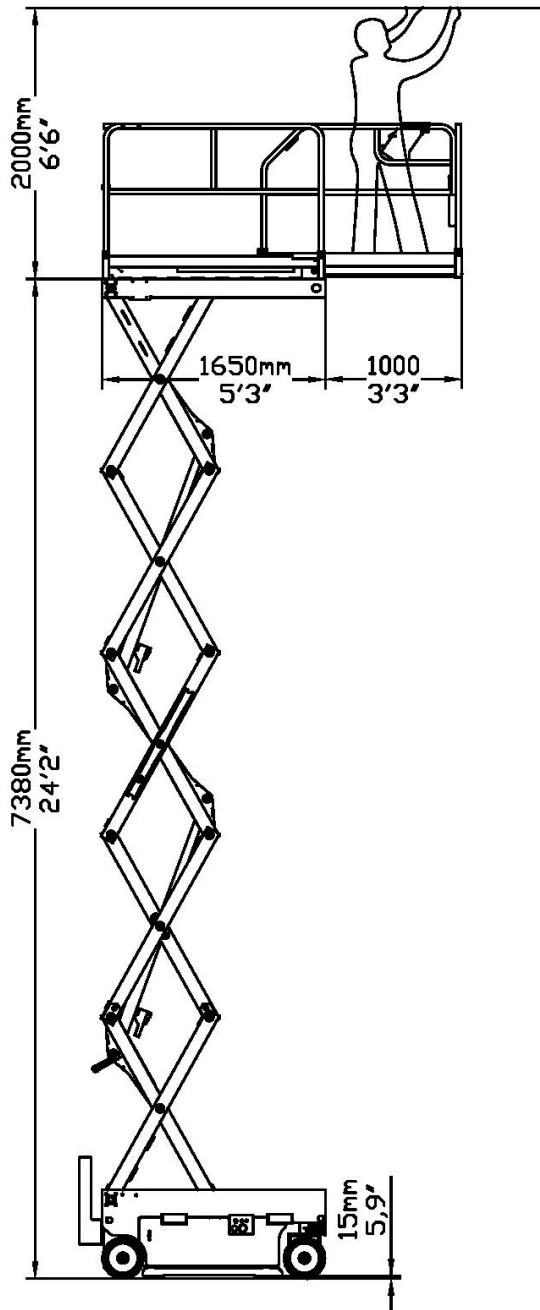
Dimensions:		XS9 E RESTYLING			
Maximum working height		9.38	m	30 '7"	ft
Max. platform height		7.38	m	24 '2"	ft
Ground clearance (pot-hole guards lifted)		72	mm	28"	in
Ground clearance (pot-hole guards lowered)		15	mm	5.9"	in
Platform height for safety speed activation		2.0	m	6 '5"	ft
Internal steering radius		0.60	m	1 '9"	ft
External steering radius		2.05	m	6 '7"	ft
Maximum capacity (m)		200	kg	440	lbs
Max. number of people on the platform (n) – indoors		2		2	
Tool and material weight (me) ** – indoors		40	kg	198.4	lbs
Max. number of people on the platform (n) – outdoors		-		-	
Tool and material weight (me) ** – outdoors		-		-	
Maximum slide-out extension deck		1	m	3 '2"	ft
Maximum capacity on deck extension		200	kg	440	lbs
Maximum amount of people on deck extension		2		2	
Maximum drive height		Max		Max	
Maximum platform dimensions (extended)		0.76 x 2.65	m	2 '4" x 98 '6"	ft
Max. hydraulic pressure		260	bar	3770.9	psi
Max. pressure of lifting circuit		210	bar	3045.7	psi
Min. pressure of braking circuit		65 ÷ 70	bar	942.7 ÷ 1015.2	psi
Tyre dimensions		Ø305-100	mm	Ø12.0"-v3.9"	in
Type of tyres		Cushion soft		Cushion soft	
Transport dimensions with removable rails installed *		0.765 x 1.82 x 2.35	m	2 '5"x5 '9"x 7 '7"	ft
Transport dimensions with removable rails not installed *		0.765 x 1.82 x 1.43	m	2 '5"x5 '9"x 4 '6"	ft
Transport dimensions with folded-down rails (optional) *		0.765 x 2.04 x 1.98	m	2 '5"x6 '6"x 6 '4"	ft
Machine weight (unloaded)		2000	kg	4409.2	lbs
Stability limit:					
Longitudinal inclination		2	°	2	°
Transversal inclination		1	°	1	°
Maximum wind speed		0	m/s	0	mph
Maximum manual force:		400	N	90	lbf
Max. load per wheel		1150	Kg	2500	lbs
Performance:					
Standard battery capacity and voltage		4 x 6 / 200	V/Ah	4 x 6 / 200	V/Ah
Total electrolyte quantity of standard battery		4 x 6.4	Lt.	4x2	gal
Standard battery weight		4 x 32	kg	4x71	lbs
Optional battery capacity and voltage		N.A.	V/Ah	N.A.	V/Ah
Total electrolyte quantity of optional battery		N.A.	Lt.	N.A.	gal
Optional battery weight		N.A.	kg	N.A.	lbs
Single-phase battery charger		24/25 HF	V/A	24/25 HF	V/A
Max. current absorbed by the battery charger		12	A	12	A
Electric pump power		3	kW	4.0	hp
Max. absorbed current		160	A	160	A
Max. drive speed		3.6	km/h	2.2	mph
Safety drive speed		0.6	km/h	0.4	mph
Lowering/lifting time (unloaded)		30 / 36	Sec.	30 / 36	Sec
Oil tank capacity		20	Lt.	5	gal
Gradeability		23	%	23	%
Max. operating temperature		+50	°C	122	°F
Min. operating temperature		-15	°C	5	°F

(*) removing the ladder, the machine overall dimensions are further reduced (length reduced by 0.17 m)

(**) me = m – (n x 80)



XS9 E RESTYLING



- 1) rails removed
- 2) rails folded-down

2.6 Model X8EW WIND

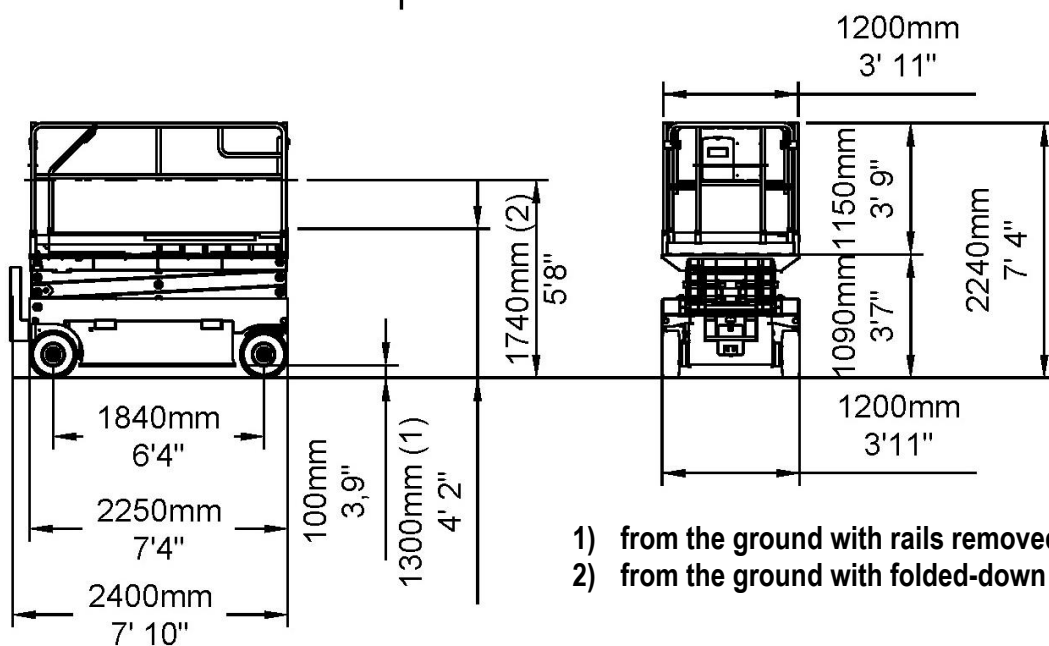
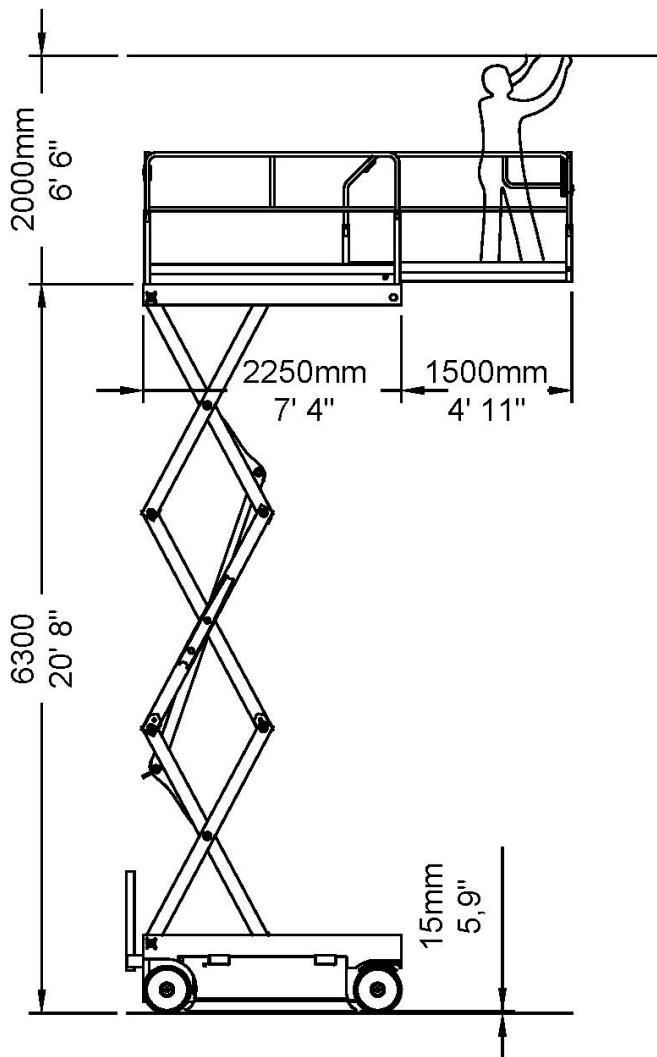
		X8EW WIND			
Maximum working height	8.3	m	27 '9"	ft	
Max. platform height	6.3	m	20 '6"	ft	
Ground clearance (pot-hole guards lifted)	100	mm	3.9"	in	
Ground clearance (pot-hole guards lowered)	15	mm	.5.9"	in	
Platform height for safety speed activation	1.8	m	5 '9"	ft	
Internal steering radius	0	m	0	ft	
External steering radius	2.43	m	7 '8"	ft	
Maximum capacity (m)	500	kg	1100	lbs	
Max. number of people on the platform (n) – indoors	3		3		
Tool and material weight (me) ** – indoors	260	kg	573.2	lbs	
Max. number of people on the platform (n) – outdoors	2		2		
Tool and material weight (me) ** – outdoors	340	kg	759.5	lbs	
Maximum slide-out extension deck	1.5	m	4 '9"	ft	
Maximum capacity on deck extension	500	kg	1100	lbs	
Maximum amount of people on deck extension - indoors	3		3		
Maximum amount of people on deck extension - outdoors	2		2		
Maximum drive height	Max		Max		
Maximum platform dimensions (extended)	1.2 x 3.75	m	3 '9" x 12 '3"	ft	
Max. hydraulic pressure	230	bar	3335.8	psi	
Max. pressure of lifting circuit	160	bar	2320.6	psi	
Min. pressure of braking circuit	60÷70	bar	870.2 ÷ 1015.2	psi	
Tyre dimensions	Ø410 x 150	mm	Ø16.1" x 5.6"	in	
Type of tyres	Cushion soft		Cushion soft		
Transport dimensions with removable rails installed *	1.2X2.4X2.24	m	3 '9"x 7 '8"x 7 '3"	ft	
Transport dimensions with removable rails not installed *	1.2X2.4X1.30	m	3 '9"x 7 '8"x 4 '2"	ft	
Transport dimensions with folded-down rails (optional) *	1.2X2.4X1.74	m	3 '9"x 7 '8"x 5 '7"	ft	
Machine weight (unloaded)	2250	kg	4960.4	lbs	
Stability limit:					
Longitudinal inclination	4	°	4	°	
Transversal inclination	2	°	2	°	
Maximum wind speed	12.5	m/s	27.96	mph	
Maximum manual force - indoors	400	N	90	lbf	
Maximum manual force - outdoors	400	N	90	lbf	
Max. load per wheel	1200	Kg	2600	lbs	
Performance:					
Standard battery capacity and voltage	4 x 6 / 200	V/Ah	4 x 6 / 200	V/Ah	
Total electrolyte quantity of standard battery	4 x 6.4	Lt.	1.3x 1.6	gal	
Standard battery weight	4 x 32	kg	8.8 x 70.5	lbs	
Optional battery capacity and voltage	4 x 6 / 280	V/Ah	4 x 6 / 280	V/Ah	
Total electrolyte quantity of optional battery	4 x 10.3	Lt.	1.3 x 2.7	gal	
Optional battery weight	4 x 47	kg	4x104	lbs	
Single-phase battery charger	24 / 25	V/A	24 / 25	V/A	
Max. current absorbed by the battery charger	12	A	12	A	
Electric pump power	3	kW	4.0	hp	
Max. absorbed current	160	A	160	A	
Max. drive speed	3	km/h	1.9	mph	
Safety drive speed	0.6	km/h	0.4	mph	
Lowering/lifting time (unloaded)	47 / 47	Sec.	47 / 47	Sec	
Oil tank capacity	30	Lt.	7.9	gal	
Gradeability	25	%	25	%	
Max. operating temperature	+50	°C	122	°F	
Min. operating temperature	-15	°C	5	°F	

(*) removing the ladder, the machine overall dimensions are further reduced (length = 2.25 m)

(**) me = m – (n x 80)

[®] AIRO

X8 EW WIND



- 1) from the ground with rails removed
- 2) from the ground with folded-down rails (optional)

2.7 Model X8EN

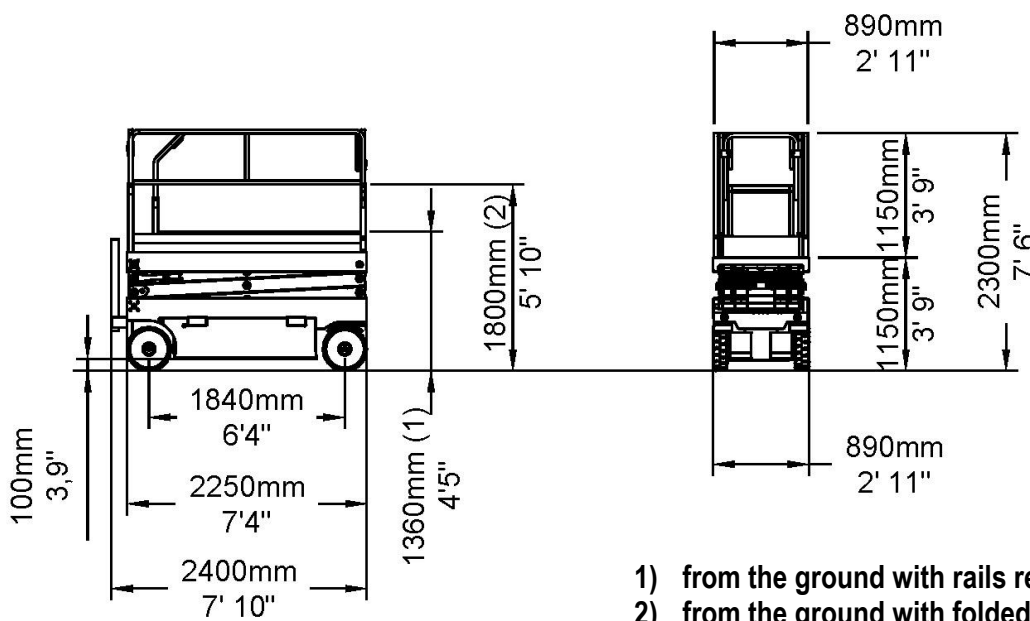
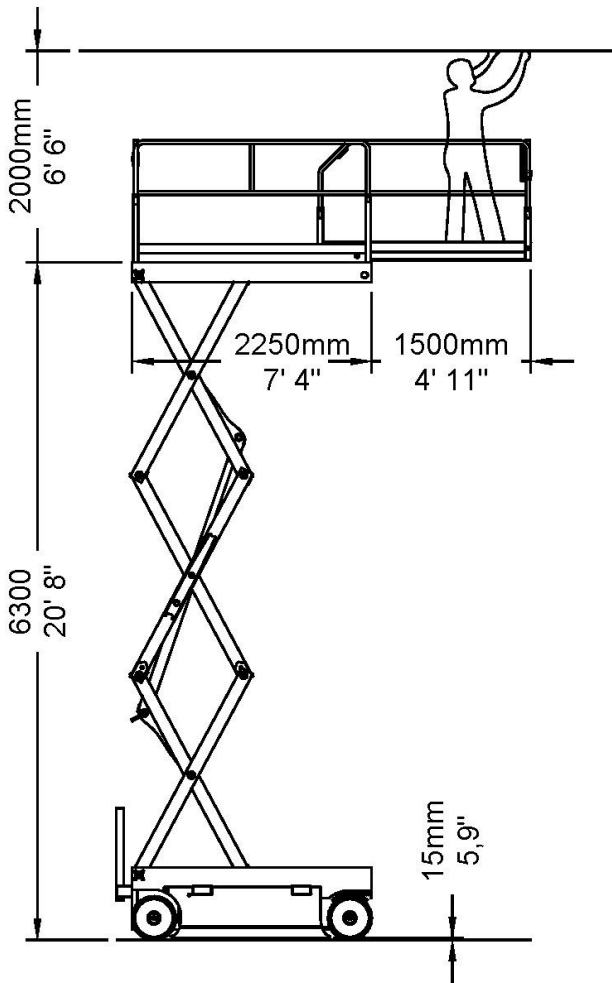
		X8EN			
Maximum working height	8.3	m	27 '9"	ft	
Max. platform height	6.3	m	20 '6"	ft	
Ground clearance (pot-hole guards lifted)	100	mm	3.9"	in	
Ground clearance (pot-hole guards lowered)	15	mm	.5.9"	in	
Platform height for safety speed activation	1.8	m	5 '9"	ft	
Internal steering radius	0	m	0	ft	
External steering radius	2.28	m	7 '4"	ft	
Maximum capacity (m)	400	kg	881.8	lbs	
Max. number of people on the platform (n) – indoors	3		3		
Tool and material weight (me) ** – indoors	160	kg	352.7	lbs	
Max. number of people on the platform (n) – outdoors	-		-		
Tool and material weight (me) ** – outdoors	-		-		
Maximum slide-out extension deck	1.5	m	4 '9"	ft	
Maximum capacity on deck extension	400	kg	881.8	lbs	
Maximum amount of people on deck extension - indoors	3		3		
Maximum amount of people on deck extension - outdoors	-		-		
Maximum drive height	Max		Max		
Maximum platform dimensions (extended)	0.89 x 3.75	m	2 '6" x 12 '3"	ft	
Max. hydraulic pressure	230	bar	3335.8	psi	
Max. pressure of lifting circuit	160	bar	2320.6	psi	
Min. pressure of braking circuit	60÷70	bar	870.2 ÷ 1015.2	psi	
Tyre dimensions	Ø410 x 150	mm	Ø16.1" x 5.6"	in	
Type of tyres	Cushion soft		Cushion soft		
Transport dimensions with removable rails installed *	0.89X2.4X2.30	m	2 '6"x 7 '8"x7 '5"	ft	
Transport dimensions with removable rails not installed *	0.89X2.4X1.36	m	2 '6"x 7 '8"x 4 '4"	ft	
Transport dimensions with folded-down rails (optional) *	0.89X2.4X1.80	m	2 '6"x 7 '8"x5 '9"	ft	
Machine weight (unloaded)	2000	kg	4409.2	lbs	
Stability limit:					
Longitudinal inclination	3	°	3	°	
Transversal inclination	2	°	2	°	
Maximum wind speed	0	m/s	0	mph	
Maximum manual force:	400	N	90	lbf	
Max. load per wheel	1200	Kg	2600	lbs	
Performance:					
Standard battery capacity and voltage	4 x 6 / 200	V/Ah	4 x 6 / 200	V/Ah	
Total electrolyte quantity of standard battery	4 x 6.4	Lt.	1.3x 1.6	gal	
Standard battery weight	4 x 32	kg	8.8 x70.5	lbs	
Optional battery capacity and voltage	4 x 6 / 280	V/Ah	4 x 6 / 280	V/Ah	
Total electrolyte quantity of optional battery	4 x 10.3	Lt.	1.3 x 2.7	gal	
Optional battery weight	4 x 47	kg	4x104	lbs	
Single-phase battery charger	24 / 25	V/A	24 / 25	V/A	
Max. current absorbed by the battery charger	12	A	12	A	
Electric pump power	3	kW	4.0	hp	
Max. absorbed current	160	A	160	A	
Max. drive speed	3	km/h	1.9	mph	
Safety drive speed	0.6	km/h	0.4	mph	
Lowering/lifting time (unloaded)	47 / 47	Sec.	47 / 47	Sec	
Oil tank capacity	30	Lt.	7.9	gal	
Gradeability	26	%	25	%	
Max. operating temperature	+50	°C	122	°F	
Min. operating temperature	-15	°C	5	°F	

(*) removing the ladder, the machine overall dimensions are further reduced (length = 2.25 m)

(**) me = m – (n x 80)



X8 EN



- 1) from the ground with rails removed
- 2) from the ground with folded-down rails (optional)

2.8 Model X10EW - X10EW-WIND

Dimensions:		X10EW-WIND	X10EW			
	Maximum working height	10.2	10.2	m	33 '4"	ft
	Max. platform height	8.2	8.2	m	26 '9"	ft
	Ground clearance (pot-hole guards lifted)	100	100	mm	3.9"	in
	Ground clearance (pot-hole guards lowered)	15	15	mm	.5.9"	in
	Platform height for safety speed activation	2.1	2.1	m	5 '9"	ft
	Internal steering radius	0	0	m	0	ft
	External steering radius	2.43	2.43	m	7 '8"	ft
	Maximum capacity (m)	500	500	kg	1100	lbs
	Max. number of people on the platform (n) – indoors	3	3		3	
	Tool and material weight (me) ** – indoors	260	260	kg	573.2	lbs
	Max. number of people on the platform (n) – outdoors	1	-		-	
	Tool and material weight (me) ** – outdoors	420	-	kg	-	lbs
	Maximum slide-out extension deck	1.5	1.5	m	4 '9"	ft
	Maximum capacity on deck extension	500	500	kg	1100	lbs
	Maximum amount of people on deck extension - indoors	3	3		3	
	Maximum amount of people on deck extension - outdoors	1	-		-	
	Maximum drive height	Max.	Max.		Max	
	Maximum platform dimensions (extended)	1.2 x 3.75	1.2 x 3.75	m	2 '6" x 12 '3"	ft
	Max. hydraulic pressure	230	230	bar	3335.8	psi
	Max. pressure of lifting circuit	240	240	bar	3480.9	psi
	Min. pressure of braking circuit	60÷70	60÷70	bar	870.2 ÷ 1015.2	psi
	Tyre dimensions	Ø410 x 150	Ø410 x 150	mm	Ø16.1" x 5.6"	in
	Type of tyres	Cushion soft	Cushion soft		Cushion soft	
	Transport dimensions with removable rails installed *	1.2x2.4x2.36	1.2x2.4x2.36	m	3 '9"x 7 '8"x7 '5"	ft
	Transport dimensions with removable rails not installed *	1.2x2.4x1.42	1.2x2.4x1.42	m	3 '9"x 7 '8"x 4 '5"	ft
	Transport dimensions with folded-down rails (optional) *	1.2x2.4x1.86	1.2x2.4x1.86	m	3 '9"x 7 '8"x5 '9"	ft
	Machine weight (unloaded)	2850	2350	kg	6283 / 5181	lbs
Stability limit:						
	Longitudinal inclination	3	3	°	3	°
	Transversal inclination	2	2	°	2	°
	Maximum wind speed	12.5	0	m/s	0	mph
	Maximum manual force - indoors	400	400	N	90	lbf
	Maximum manual force - outdoors	200	0	N	0	lbf
	Max. load per wheel	1680	1380	Kg	3700 / 3000	lbs
Performance:						
	Standard battery capacity and voltage	4x6 / 200	4x6 / 200	V/Ah	4 x 6 / 200	V/Ah
	Total electrolyte quantity of standard battery	4 x 6.4	4 x 6.4	Lt.	1.3x 1.6	gal
	Standard battery weight	4x32	4x32	kg	4 x70.5	lbs
	Optional battery capacity and voltage	4 x 6 / 280	4 x 6 / 280	V/Ah	4 x 6 / 280	V/Ah
	Total electrolyte quantity of optional battery	4 x 10.3	4 x 10.3	Lt.	1.3 x 2.7	gal
	Optional battery weight	4 x 47	4 x 47	kg	4x104	lbs
	Single-phase battery charger	24/25	24 / 25	V/A	24 / 25	V/A
	Max. current absorbed by the battery charger	12	12	A	12	A
	Electric pump power	3	3	kW	4.0	hp
	Max. absorbed current	160	160	A	160	A
	Max. drive speed	3	3	km/h	1.9	mph
	Safety drive speed	0.6	0.6	km/h	0.4	mph
	Lowering/lifting time (unloaded)	47 / 47	47 / 47	Sec.	47 / 47	Sec
	Oil tank capacity	30	30	Lt.	7.9	gal
	Gradeability	18	25	%	25	%
	Max. operating temperature	+50	+50	°C	122	°F
	Min. operating temperature	-15	-15	°C	5	°F

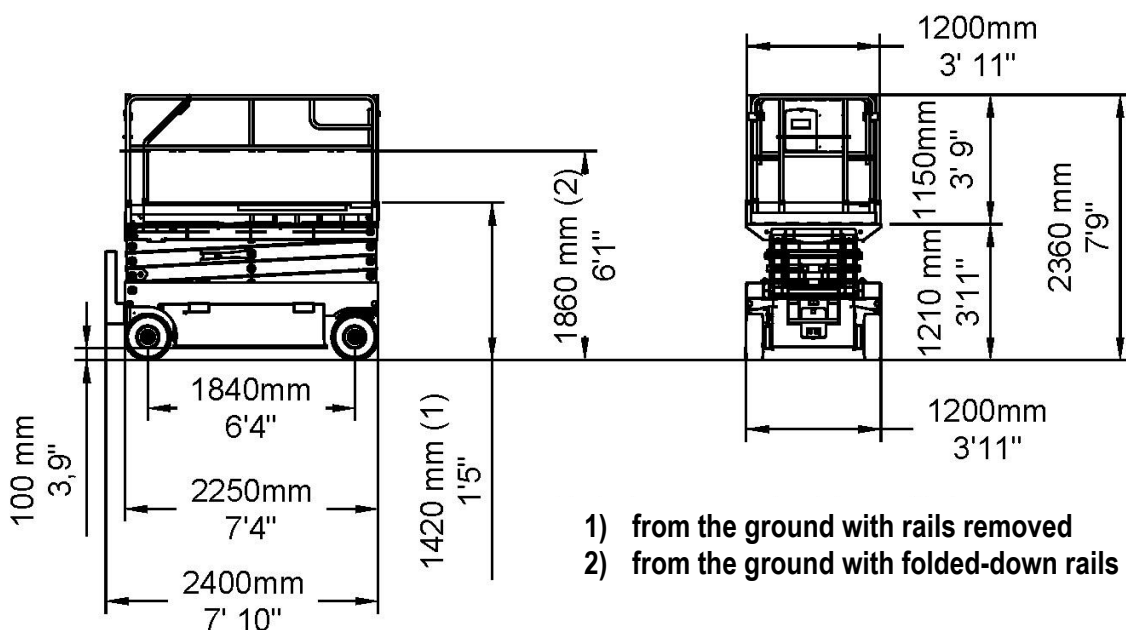
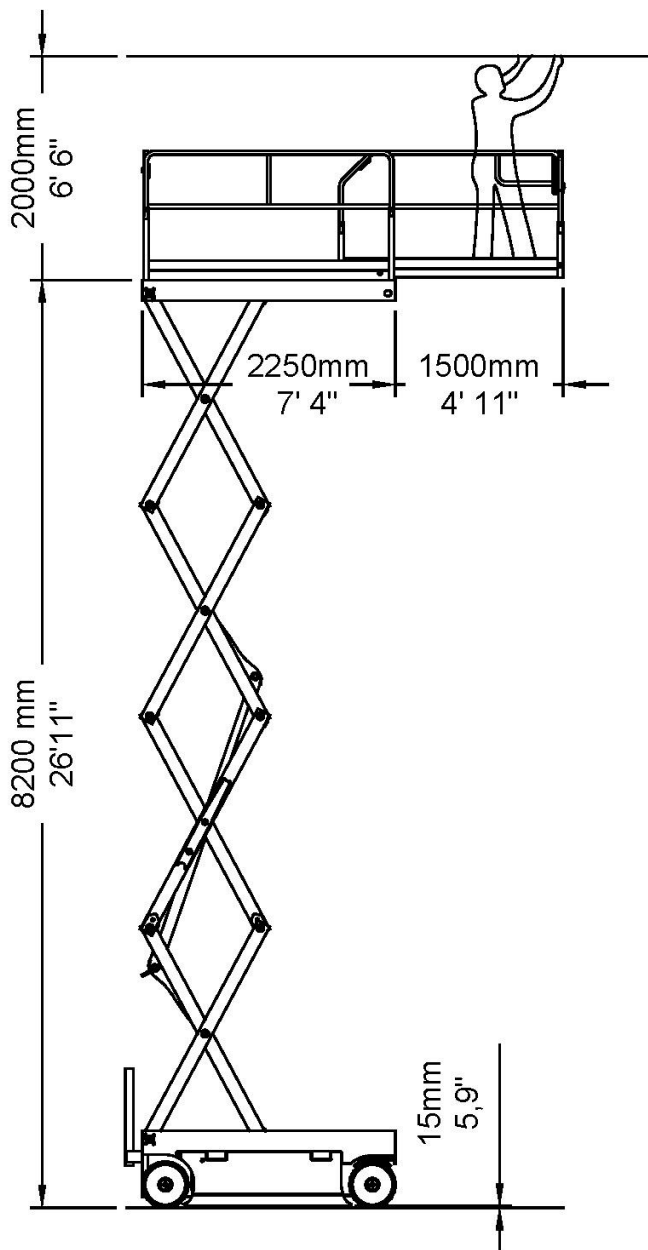
(*) removing the ladder, the machine overall dimensions are further reduced (length = 2.25 m)

(**) me = m – (n x 8)

[®] **AIRO**

X10 EW

X10 EW WIND



- 1) from the ground with rails removed
- 2) from the ground with folded-down rails (optional)

2.9 Model X10EN

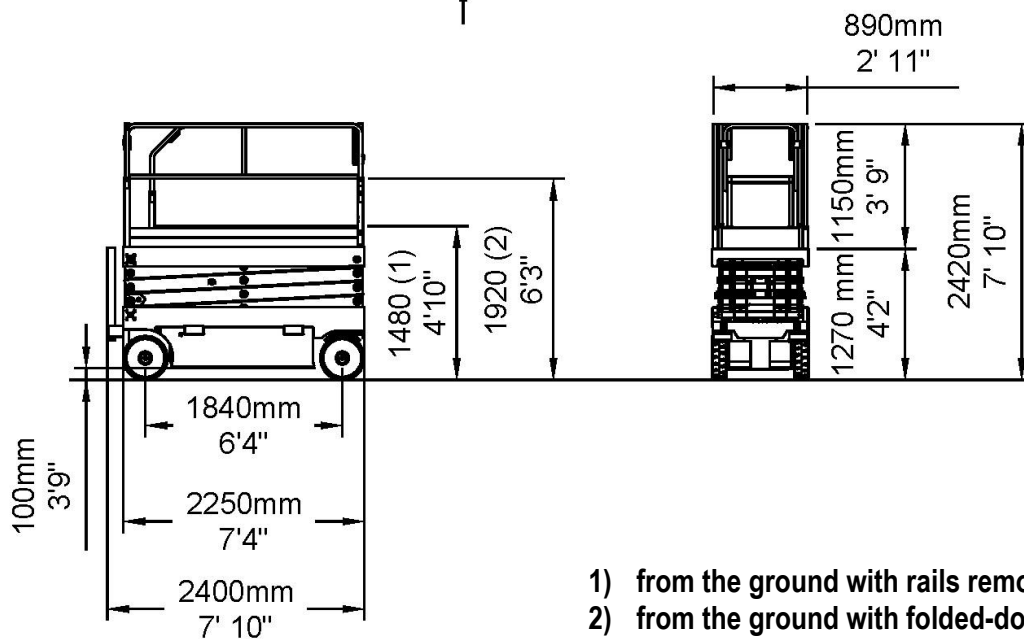
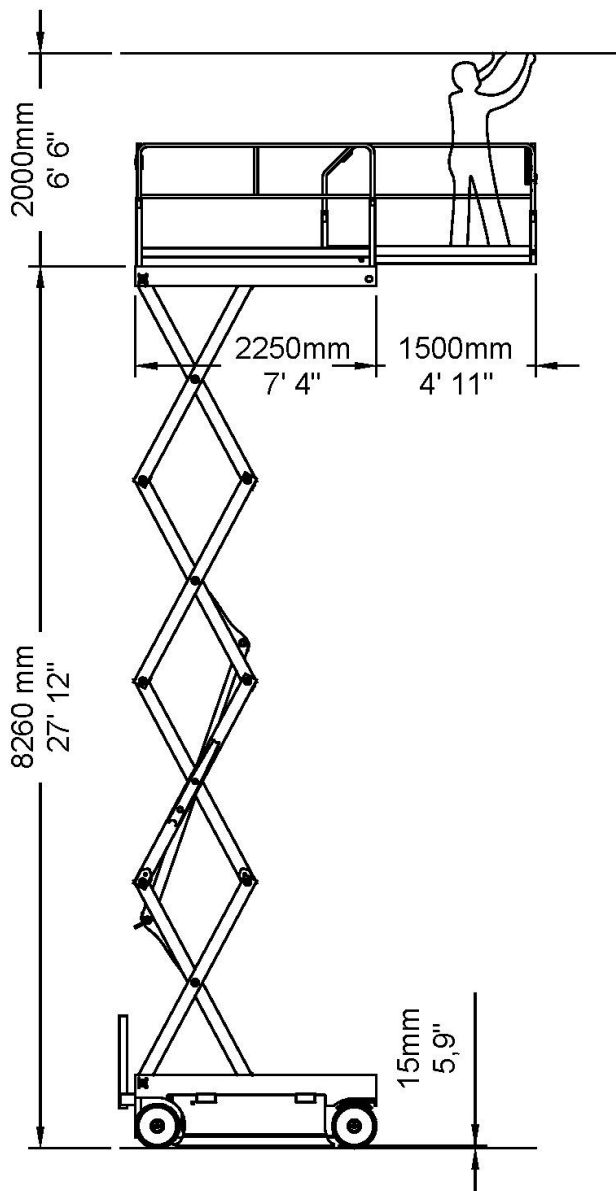
Dimensions:		X10EN			
Maximum working height	10.2	m	33 '4"	ft	
Max. platform height	8.2	m	26 '9"	ft	
Ground clearance (pot-hole guards lifted)	100	mm	3.9"	in	
Ground clearance (pot-hole guards lowered)	15	mm	5.9"	in	
Platform height for safety speed activation	2.1	m	6 '8"	ft	
Internal steering radius	0	m	0	ft	
External steering radius	2.28	m	7 '4"	ft	
Maximum capacity (m)	400	kg	880	lbs	
Max. number of people on the platform (n) – indoors	3		3		
Tool and material weight (me) ** – indoors	160	kg	352.7	lbs	
Max. number of people on the platform (n) – outdoors	-		-		
Tool and material weight (me) ** – outdoors	-		-		
Maximum slide-out extension deck	1.5	m	4 '9"	ft	
Maximum capacity on deck extension	400	kg	881.8	lbs	
Maximum amount of people on deck extension - indoors	3		3		
Maximum amount of people on deck extension - outdoors	-		-		
Maximum drive height	Max.		Max		
Maximum platform dimensions (extended)	0.89 x 3.75	m	2 '7" x 12 '3"	ft	
Max. hydraulic pressure	230	bar	3335.8	psi	
Max. pressure of lifting circuit	210	bar	3045.7	psi	
Min. pressure of braking circuit	60÷70	bar	870.2 ÷ 1015.2	psi	
Tyre dimensions	Ø410 x 150	mm	Ø16.1" x 5.6"	in	
Type of tyres	Cushion soft		Cushion soft		
Transport dimensions with removable rails installed *	0.89x2.4x2.42	m	2 '9"x 7 '8"x7 '9"	ft	
Transport dimensions with removable rails not installed *	0.89x2.4x1.48	m	2 '9"x 7 '8"x 4 '8"	ft	
Transport dimensions with folded-down rails (optional) *	0.89x2.4x2.42	m	2'9"x 7 '8"x6 '2"	ft	
Machine weight (unloaded)	2750	kg	6062.7	lbs	
Stability limit:					
Longitudinal inclination	3	°	3	°	
Transversal inclination	2	°	2	°	
Maximum wind speed	0	m/s	0	mph	
Maximum manual force:	400	N	90	lbf	
Max. load per wheel	1650	Kg	3600	lbs	
Performance:					
Standard battery capacity and voltage	4x6 / 200	V/Ah	4 x 6 / 200	V/Ah	
Total electrolyte quantity of standard battery	4 x 6.4	Lt.	1.3x 1.6	gal	
Standard battery weight	4x32	kg	8.8 x70.5	lbs	
Optional battery capacity and voltage	4 x 6 / 280	V/Ah	4 x 6 / 280	V/Ah	
Total electrolyte quantity of optional battery	4 x 10.3	Lt.	1.3 x 2.7	gal	
Optional battery weight	4 x 47	kg	4x104	lbs	
Single-phase battery charger	24 / 25	V/A	24 / 25	V/A	
Max. current absorbed by the battery charger	12	A	12	A	
Electric pump power	3	kW	4.0	hp	
Max. absorbed current	160	A	160	A	
Max. drive speed	3	km/h	1.9	mph	
Safety drive speed	0.6	km/h	0.4	mph	
Lowering/lifting time (unloaded)	47 / 47	Sec.	47 / 47	Sec	
Oil tank capacity	30	Lt.	7.9	gal	
Gradeability	20	%	20	%	
Max. operating temperature	+50	°C	122	°F	
Min. operating temperature	-15	°C	5	°F	

(*) removing the ladder, the machine overall dimensions are further reduced (length = 2.25 m)

(**) me = m – (n x 80)

[®] AIRO

X10 EN



- 1) from the ground with rails removed
- 2) from the ground with folded-down rails (optional)

2.10 Model X12EW - X12EW-WIND

Dimensions:		X12EW-WIND	X12EW			
	Maximum working height	12.1	12.1	m	39 '6"	ft
	Max. platform height	10.1	10.1	m	33 '1"	ft
	Ground clearance (pot-hole guards lifted)	100	100	mm	3.9"	in
	Ground clearance (pot-hole guards lowered)	15	15	mm	5.9"	in
	Platform height for safety speed activation	2.5	2.5	m	6 '8"	ft
	Internal steering radius	0	0	m	0	ft
	External steering radius	2.43	2.43	m	7 '4"	ft
	Maximum capacity (m)	300	450	kg	660 / 992	lbs
	Max. number of people on the platform (n) – indoors	3	3		3	
	Tool and material weight (me) ** – indoors	60	210	kg	130 / 460	lbs
	Max. number of people on the platform (n) – outdoors	1	-		-	
	Tool and material weight (me) ** – outdoors	220	-	kg	-	lbs
	Maximum slide-out extension deck	1.5	1.5	m	4 '9"	ft
	Maximum capacity on deck extension	300	450	kg	660 / 992	lbs
	Maximum amount of people on deck extension - indoors	3	3		3	
	Maximum amount of people on deck extension - outdoors	1	-		-	
	Maximum drive height	Max.	Max.		Max	
	Maximum platform dimensions (extended)	1.2 x 3.75	1.2 x 3.75	m	3 '9" x 12 '3"	ft
	Max. hydraulic pressure	230	230	bar	3335.8	psi
	Max. pressure of lifting circuit	160	170	bar	2465.6	psi
	Min. pressure of braking circuit	60÷70	60÷70	bar	870.2 ÷ 1015.2	psi
	Tyre dimensions	Ø410 x 150	Ø410 x 150	mm	Ø16.1" x 5.6"	in
	Type of tyres	Cushion soft	Cushion soft		Cushion soft	
	Transport dimensions with removable rails installed *	1.2x2.4x2.48	1.2x2.4x2.48	m	3 '9"x 7 '8"x8 '1"	ft
	Transport dimensions with removable rails not installed *	1.2x2.4x1.54	1.2x2.4x1.54	m	3 '9"x 7 '8"x 4 '8 9"	ft
	Transport dimensions with folded-down rails (optional) *	1.2x2.4x1.98	1.2x2.4x1.98	m	3'9"x 7 '8"x6 '2"	ft
	Machine weight (unloaded)	3320	2820	kg	7319.3 / 6217.0	lbs
Stability limit:						
	Longitudinal inclination	3	3	°	3	°
	Transversal inclination	1.5	2	°	1.5 / 2	°
	Maximum wind speed	12.5	0	m/s	28	mph
	Maximum manual force - indoors	400	400	N	90	lbf
	Maximum manual force - outdoors	200	0	N	45	lbf
	Max. load per wheel	1950	1710	Kg	4300 / 3700	lbs
Performance:						
	Battery capacity and voltage	4x6 / 280	4x6 / 280	V/Ah	4x6 / 280	V/Ah
	Total electrolyte quantity	4 x 10.3	4 x 10.3	Lt.	4 x 3	gal
	Battery weight	4x47	4x47	kg	8.8 x 229.2	lbs
	Single-phase battery charger	24 / 25	24 / 25	V/A	24 / 25	V/A
	Max. current absorbed by the battery charger	12	12	A	12	A
	Electric pump power	4	4	kW	5	hp
	Max. absorbed current	200	200	A	200	A
	Max. drive speed	3	3	km/h	1.9	mph
	Safety drive speed	0.6	0.6	km/h	0.4	mph
	Lowering/lifting time (unloaded)	70 / 70	70 / 70	Sec.	70 / 70	Sec
	Oil tank capacity	30	30	Lt.	7.9	gal
	Gradeability	23	26	%	23 / 26	%
	Max. operating temperature	+50	+50	°C	122	°F
	Min. operating temperature	-15	-15	°C	5	°F

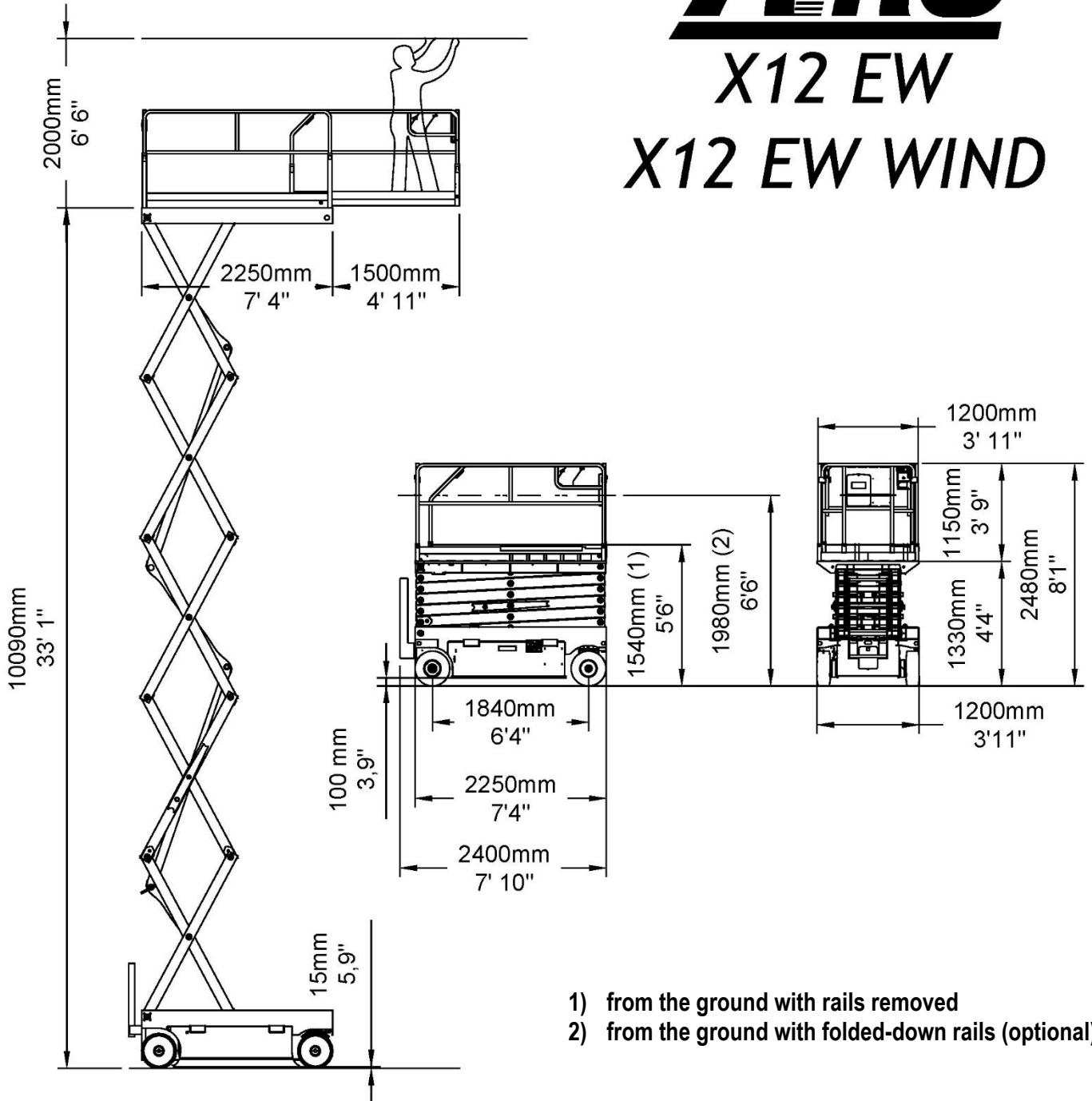
(*) removing the ladder, the machine overall dimensions are further reduced (length = 2.25 m)

(**) me = m – (n x 80)



X12 EW

X12 EW WIND



2.11 Model X12EN

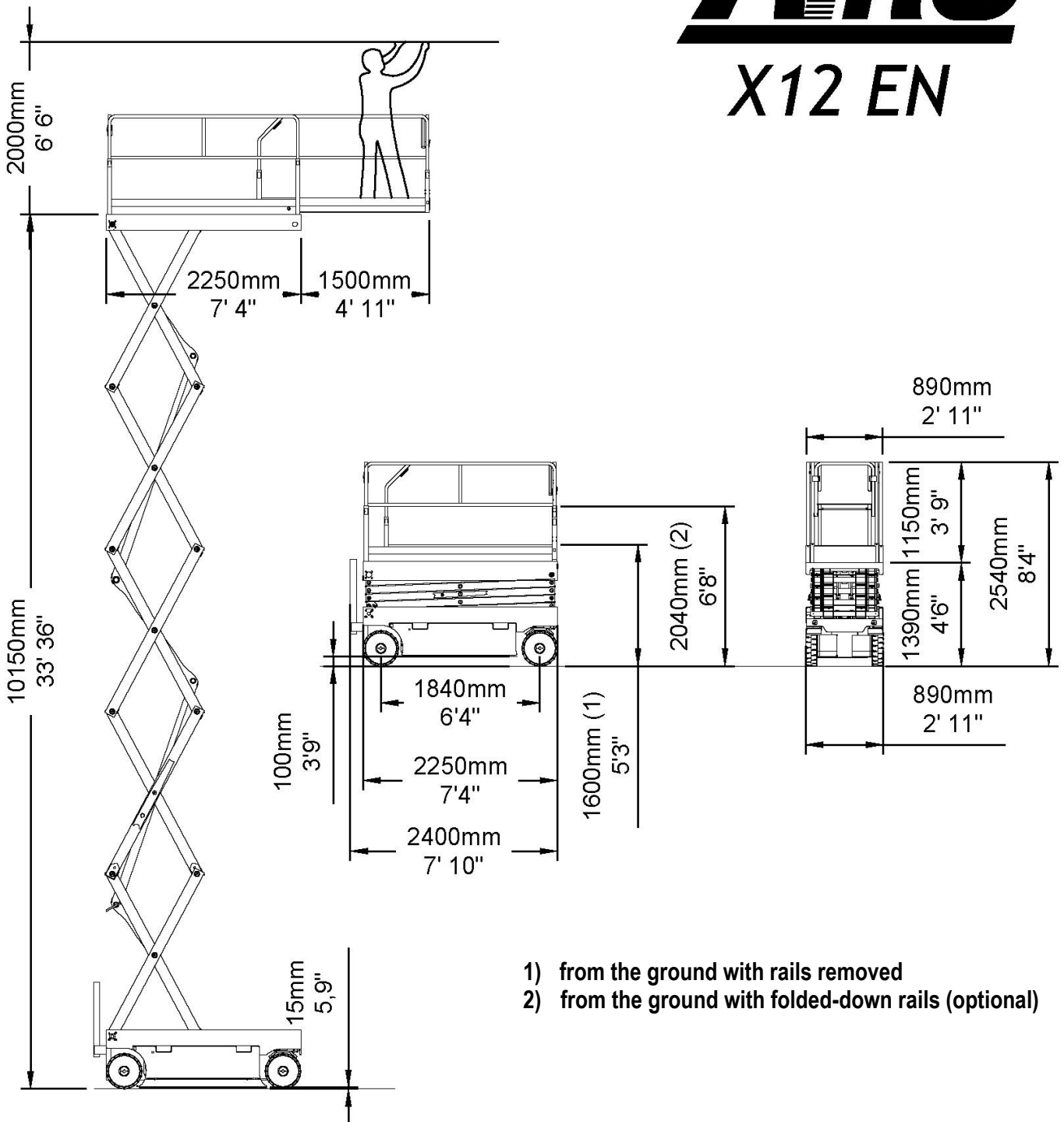
Dimensions:		X12EN			
Maximum working height		12.1	m	39 '6"	ft
Max. platform height		10.1	m	33 '1"	ft
Ground clearance (pot-hole guards lifted)		100	mm	3.9"	in
Ground clearance (pot-hole guards lowered)		15	mm	5.9"	in
Platform height for safety speed activation		2.5	m	6 '8"	ft
Internal steering radius		0	m	0	ft
External steering radius		2.28	m	7 '9"	ft
Maximum capacity (m)		300	kg	660	lbs
Max. number of people on the platform (n) – indoors		3		3	
Tool and material weight (me) ** – indoors		60	kg	130	lbs
Max. number of people on the platform (n) – outdoors		-		-	
Tool and material weight (me) ** – outdoors		-		-	
Maximum slide-out extension deck		1.5	m	4 '9"	ft
Maximum capacity on deck extension		300	kg	660	lbs
Maximum amount of people on deck extension - indoors		3		3	
Maximum amount of people on deck extension - outdoors		-		-	
Maximum drive height		Max.	m	Max	ft
Maximum platform dimensions (extended)		0.89 x 3.75	m	2 '9" x 12 '3"	ft
Max. hydraulic pressure		230	bar	3335.8	psi
Max. pressure of lifting circuit		160	bar	2465.6	psi
Min. pressure of braking circuit		60÷70	bar	870.2 ÷ 1015.2	psi
Tyre dimensions		Ø410 x 150	mm	Ø16.1" x 5.6"	in
Type of tyres		Cushion soft		Cushion soft	
Transport dimensions with removable rails installed *		0.89x2.4x2.54	m	2 '9" x 7 '8" x 8 '2"	ft
Transport dimensions with removable rails not installed *		0.89x2.4x1.6	m	2 '9" x 7 '8" x 5 '2"	ft
Transport dimensions with folded-down rails (optional) *		0.89x2.4x2.04	m	2'9"x 7 '8"x6 '6"	ft
Machine weight (unloaded)		3430	kg	7562	lbs
Stability limit:					
Longitudinal inclination		3	°	3	°
Transversal inclination		1.2	°	1.2	°
Maximum wind speed		0	m/s	0	mph
Maximum manual force:		400	N	90	lbf
Max. load per wheel		2020	Kg	4400	lbs
Performance:					
Battery capacity and voltage		4x6 / 280	V/Ah	4x6 / 280	V/Ah
Total electrolyte quantity		4 x 10.3	Lt.	4 x 3	gal
Battery weight		4x47	kg	4 x 104	lbs
Single-phase battery charger		24 / 25	V/A	24 / 25	V/A
Max. current absorbed by the battery charger		12	A	12	A
Electric pump power		4	kW	5	hp
Max. absorbed current		200	A	200	A
Max. drive speed		3	km/h	1.9	mph
Safety drive speed		0.6	km/h	0.4	mph
Lowering/lifting time (unloaded)		70 / 70	Sec.	70 / 70	Sec
Oil tank capacity		30	Lt.	8	gal
Gradeability		23	%	23	%
Max. operating temperature		+50	°C	122	°F
Min. operating temperature		-15	°C	5	°F

(*) removing the ladder, the machine overall dimensions are further reduced (length = 2.25 m)

(**) me = m – (n x 80)

[®] AIRO

X12 EN



- 1) from the ground with rails removed
- 2) from the ground with folded-down rails (optional)

2.12 Model X14 EW

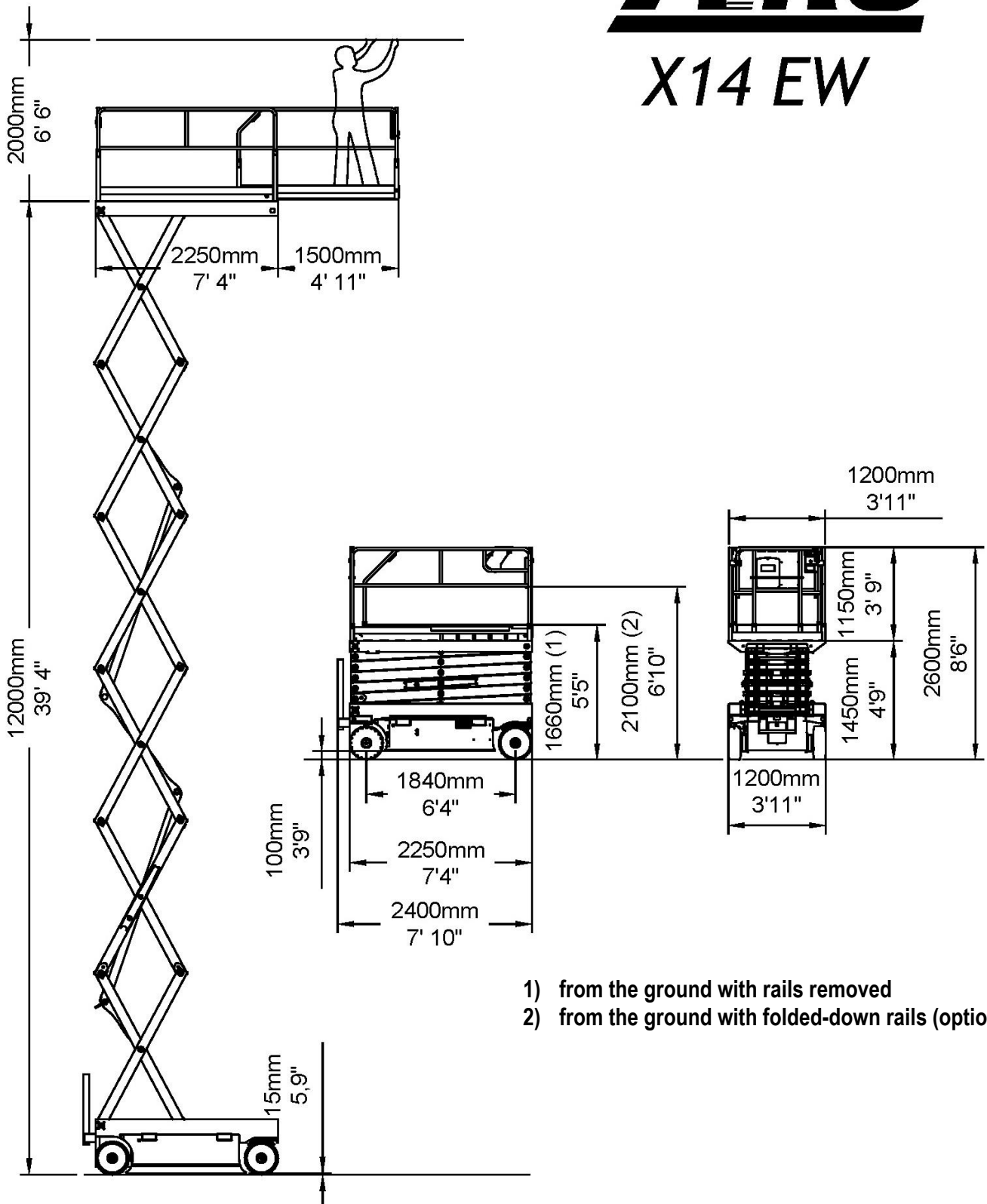
Dimensions:		X14EW			
Maximum working height	14	m	45 '9"	ft	
Max. platform height	12	m	39 '3"	ft	
Ground clearance (pot-hole guards lifted)	100	mm	3.9"	in	
Ground clearance (pot-hole guards lowered)	15	mm	5.9"	in	
Platform height for safety speed activation	2.8	m	9 '1"	ft	
Internal steering radius	0	m	0	ft	
External steering radius	2.43	m	7 '9"	ft	
Maximum capacity (m)	400	kg	880	lbs	
Max. number of people on the platform (n) – indoors	3		3		
Tool and material weight (me) ** – indoors	160	kg	353	lbs	
Max. number of people on the platform (n) – outdoors	-		-		
Tool and material weight (me) ** – outdoors	-		-		
Maximum slide-out extension deck	1.5	m	4 '9"	ft	
Maximum capacity on deck extension	400	kg	882	lbs	
Maximum amount of people on deck extension - indoors	3		3		
Maximum amount of people on deck extension - outdoors	-		-		
Maximum drive height	Max.	m	Max	ft	
Maximum platform dimensions (extended)	1.2 x 3.75	m	3 '9" x 12 '3"	ft	
Max. hydraulic pressure	230	bar	3335.8	psi	
Max. pressure of lifting circuit	200	bar	2900.7	psi	
Min. pressure of braking circuit	60÷70	bar	870.2 ÷ 1015.2	psi	
Tyre dimensions	Ø410 x 150	mm	Ø16.1" x 5.6"	in	
Type of tyres	Cushion soft		Cushion soft		
Transport dimensions with removable rails installed *	1.2X2.4X2.60	m	3 '9"x 7 '8"x8 '5"	ft	
Transport dimensions with removable rails not installed *	1.2X2.4X1.66	m	3 '9"x 7 '8"x 5 '4"	ft	
Transport dimensions with folded-down rails (optional) *	1.2X2.4X2.10	m	3'9"x 7 '8"x6 '8"	ft	
Machine weight (unloaded)	3365	kg	7418.5	lbs	
Stability limit:					
Longitudinal inclination	3	°	3	°	
Transversal inclination	1.5	°	1.5	°	
Maximum wind speed	0	m/s	0	mph	
Maximum manual force:	400	N	90	lbf	
Max. load per wheel	1980	Kg	4300	lbs	
Performance:					
Battery capacity and voltage	4x6 / 280	V/Ah	4x6 / 280	V/Ah	
Total electrolyte quantity	4 x 10.3	Lt.	4 x 3	gal	
Battery weight	4x47	kg	4 x 104	lbs	
Single-phase battery charger	24 / 25	V/A	24 / 25	V/A	
Max. current absorbed by the battery charger	12	A	12	A	
Electric pump power	4	kW	5	hp	
Max. absorbed current	200	A	200	A	
Max. drive speed	3	km/h	1.9	mph	
Safety drive speed	0.6	km/h	0.4	mph	
Lowering/lifting time (unloaded)	70 / 70	Sec.	70 / 70	Sec	
Oil tank capacity	30	Lt.	8	gal	
Gradeability	23	%	23	%	
Max. operating temperature	+50	°C	122	°F	
Min. operating temperature	-15	°C	5	°F	

(*) removing the ladder, the machine overall dimensions are further reduced (length = 2.25 m)

(**) me = m – (n x 80)



X14 EW



- 1) from the ground with rails removed
- 2) from the ground with folded-down rails (optional)

2.13 Model X14 EN

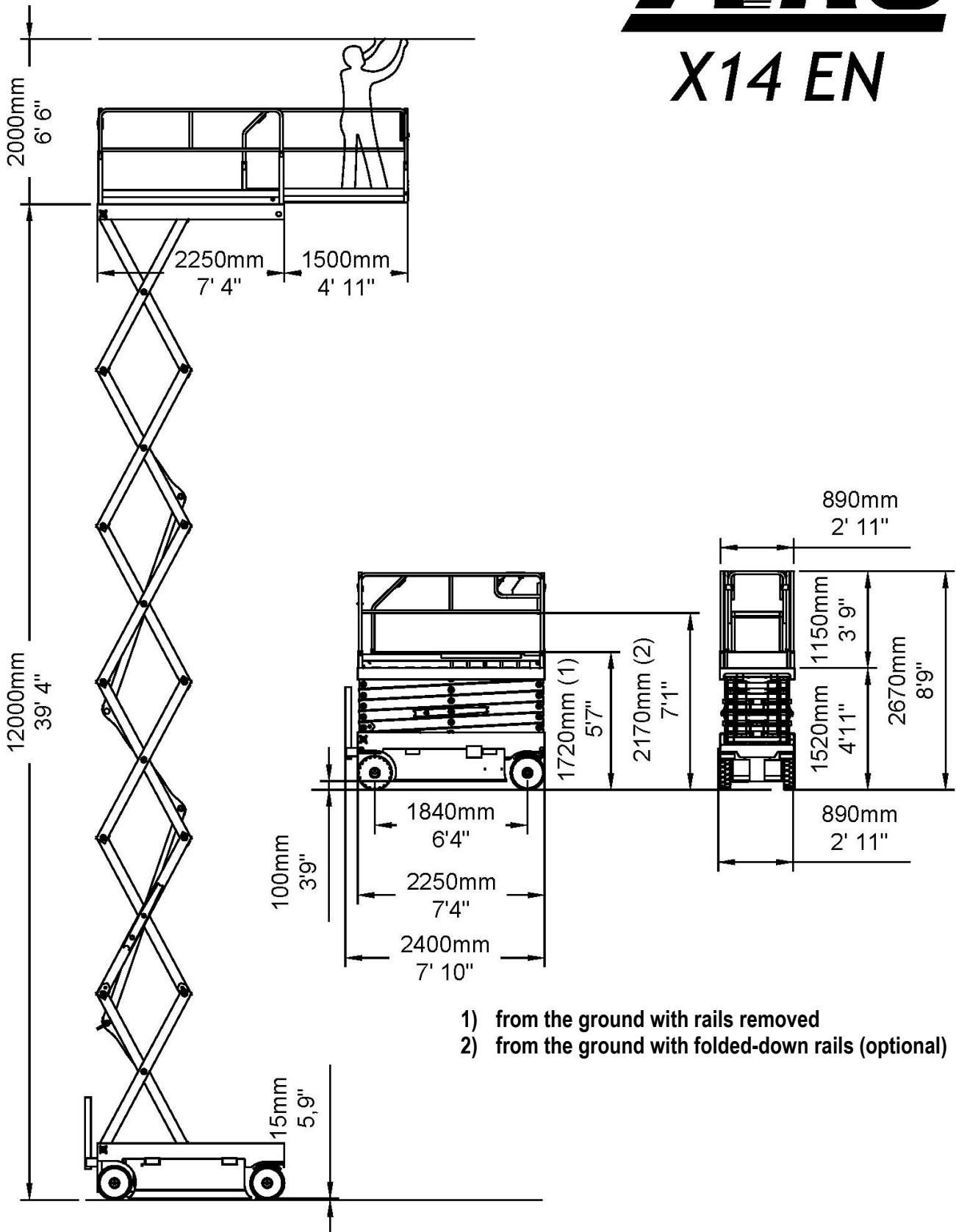
Dimensions:		X14 EN			
Maximum working height	14	m	45 '9"	ft	
Max. platform height	12	m	39 '3"	ft	
Ground clearance (pot-hole guards lifted)	100	mm	3.9"	in	
Ground clearance (pot-hole guards lowered)	15	mm	5.9"	in	
Platform height for safety speed activation	2.8	m	9 '1"	ft	
Internal steering radius	0	m	0	ft	
External steering radius	2.28	m	7 '9"	ft	
Maximum capacity (m)	230	kg	500	lbs	
Max. number of people on the platform (n) – indoors	2		2		
Tool and material weight (me) ** – indoors	70	kg	353	lbs	
Max. number of people on the platform (n) – outdoors	-		-		
Tool and material weight (me) ** – outdoors	-		-		
Maximum slide-out extension deck	1.5	m	4 '9"	ft	
Maximum capacity on deck extension	230	kg	507.0	lbs	
Maximum amount of people on deck extension - indoors	2		2		
Maximum amount of people on deck extension - outdoors	-		-		
Maximum drive height	Max.	m	Max	ft	
Maximum platform dimensions (extended)	0.89 x 3.75	m	2 '9" x 12 '3"	ft	
Max. hydraulic pressure	230	bar	3335.8	psi	
Max. pressure of lifting circuit	200	bar	2900.7	psi	
Min. pressure of braking circuit	60÷70	bar	870.2 ÷ 1015.2	psi	
Tyre dimensions	Ø410 x 150	mm	Ø16.1" x 5.6"	in	
Type of tyres	Cushion soft		Cushion soft		
Transport dimensions with removable rails installed *	0.89x2.4x2.67	m	2 '9"x 7 '8"x12 '0"	ft	
Transport dimensions with removable rails not installed *	0.89x2.4x1.72	m	2 '9"x 7 '8"x 5 '6"	ft	
Transport dimensions with folded-down rails (optional) *	0.89x2.4x2.17	m	2'9"x 7 '8"x7 '1"	ft	
Machine weight (unloaded)	3600	kg	7936.6	lbs	
Stability limit:					
Longitudinal inclination	3	°	3	°	
Transversal inclination	1	°	1	°	
Maximum wind speed	0	m/s	0	mph	
Maximum manual force:	400	N	90	lbf	
Max. load per wheel	2020	Kg	4400	lbs	
Performance:					
Battery capacity and voltage	4x6 / 280	V/Ah	4x6 / 280	V/Ah	
Total electrolyte quantity	4 x 10.3	Lt.	4 x 3	gal	
Battery weight	4x47	kg	4 x 104	lbs	
Single-phase battery charger	24 / 25	V/A	24 / 25	V/A	
Max. current absorbed by the battery charger	12	A	12	A	
Electric pump power	4	kW	5	hp	
Max. absorbed current	200	A	200	A	
Max. drive speed	3	km/h	1.9	mph	
Safety drive speed	0.6	km/h	0.4	mph	
Lowering/lifting time (unloaded)	70 / 70	Sec.	70 / 70	Sec	
Oil tank capacity	30	Lt.	8	gal	
Gradeability	23	%	23	%	
Max. operating temperature	+50	°C	122	°F	
Min. operating temperature	-15	°C	5	°F	

(*) removing the ladder, the machine overall dimensions are further reduced (length = 2.25 m)

(**) me = m – (n x 80)

[®] AIRO

X14 EN



- 1) from the ground with rails removed
- 2) from the ground with folded-down rails (optional)

2.14 Model X16 EW

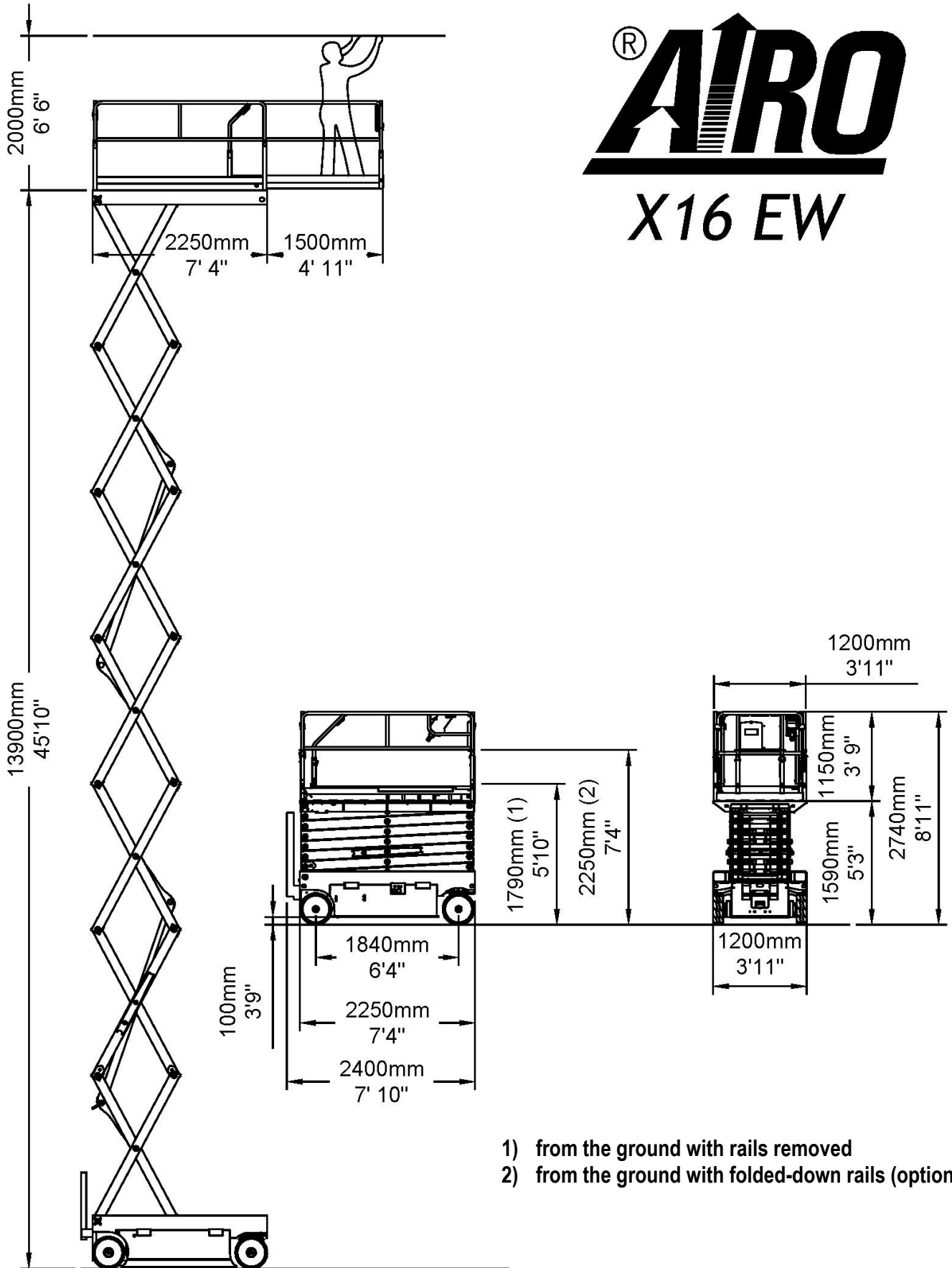
Dimensions:		X16EW			
Maximum working height		15.9	m	52 '1"	ft
Max. platform height		13.9	m	45 '6"	ft
Ground clearance (pot-hole guards lifted)		100	mm	3.9"	in
Ground clearance (pot-hole guards lowered)		15	mm	5.9"	in
Platform height for safety speed activation		3	m	9 '8"	ft
Internal steering radius		0	m	0	ft
External steering radius		2.43	m	7 '9"	ft
Maximum capacity (m)		250	kg	500	lbs
Max. number of people on the platform (n) – indoors		2		2	
Tool and material weight (me) ** – indoors		90	kg	198	lbs
Max. number of people on the platform (n) – outdoors		-		-	
Tool and material weight (me) ** – outdoors		-		-	
Maximum slide-out extension deck		1.5	m	4 '9"	ft
Maximum capacity on deck extension		250	kg	500	lbs
Maximum amount of people on deck extension - indoors		2		2	
Maximum amount of people on deck extension - outdoors		-		-	
Maximum drive height		Max.	m	Max	ft
Maximum platform dimensions (extended)		1.2 x 3.75	m	3'9" x 12 '3"	ft
Max. hydraulic pressure		230	bar	3335.8	psi
Max. pressure of lifting circuit		200	bar	2900.7	psi
Min. pressure of braking circuit		60÷70	bar	870.2 ÷ 1015.2	psi
Tyre dimensions		Ø410 x 150	mm	Ø16.1" x 5.6"	in
Type of tyres		Cushion soft		Cushion soft	
Transport dimensions with removable rails installed *		1.2X2.4X2.74	m	3 '9"x 7 '8"x12 '0"	ft
Transport dimensions with removable rails not installed *		1.2X2.4X1.79	m	3 '9"x 7 '8"x 5 '8"	ft
Transport dimensions with folded-down rails (optional) *		1.2X2.4X2.25	m	3'9"x 7 '8"x7 '3"	ft
Machine weight (unloaded)		3600	kg	7936.6	lbs
Stability limit:					
Longitudinal inclination		2.5	°	2.5	°
Transversal inclination		1	°	1	°
Maximum wind speed		0	m/s	0	mph
Maximum manual force:		400	N	90	lbf
Max. load per wheel		2020	Kg	4400	lbs
Performance:					
Battery capacity and voltage		4x6 / 280	V/Ah	4x6 / 280	V/Ah
Total electrolyte quantity		4 x 10.3	Lt.	4 x 3	gal
Battery weight		4x47	kg	4 x 104	lbs
Single-phase battery charger		24 / 25	V/A	24 / 25	V/A
Max. current absorbed by the battery charger		12	A	12	A
Electric pump power		4	kW	5	hp
Max. absorbed current		200	A	200	A
Max. drive speed		3	km/h	1.9	mph
Safety drive speed		0.6	km/h	0.4	mph
Lowering/lifting time (unloaded)		70 / 70	Sec.	70 / 70	Sec
Oil tank capacity		30	Lt.	8	gal
Gradeability		23	%	23	%
Max. operating temperature		+50	°C	122	°F
Min. operating temperature		-15	°C	5	°F

(*) removing the ladder, the machine overall dimensions are further reduced (length = 2.25 m)

(**) me = m – (n x 80)

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X16 EW



- 1) from the ground with rails removed
- 2) from the ground with folded-down rails (optional)

2.15 Vibrations and noise

Noise tests have been carried out under the most unfavourable conditions to study the effects on the operator. The level of acoustic pressure weighed (**A**) at work places does not exceed **70dB (A)** for each model to which this Use and Maintenance manual refers.

As to vibrations in ordinary working conditions:

- The average weighted quadratic value in frequency of the acceleration which the upper members have to withstand is below **2.5 m/sec²** for each of the models to which this Use and Maintenance manual refers.
- The average weighted quadratic value in frequency of the acceleration which the body has to withstand is below **0.5 m/sec²** for each of the models to which this Use and Maintenance manual refers.

3. SAFETY PRECAUTIONS

3.1 Personal protective equipment (PPE)

Always wear personal protective equipment according to current regulations concerning industrial health and safety (in particular, hard hat and safety shoes are **COMPULSORY**).

It is the operator or safety manager's responsibility to choose the personal protective equipment (PPE) depending on the activity to be carried out. For their correct use and maintenance, refer to the equipment manuals themselves.

The use of safety harness is not compulsory except in certain countries with specific regulations.

In Italy, the consolidation act on safety, **Law Decree 81/08**, has made the use of a safety harness mandatory.

The harness is attached to one of the anchorages reported by labels, as in the following picture.



3-1: Harness anchoring

3.2 General safety norms



- Only adults (18 years old), after carefully reading this manual, are allowed to use the machine. The employer is responsible for training.
- The platform is intended for people carriage; therefore, it is necessary to comply with the current local regulations relevant to this class of machines (see paragraph 1).
- At least two users must operate the machine, one of them on the ground, able to carry out the emergency operations described in this handbook.
- Always keep the machine at a safety distance from power lines as indicated in the next chapters.
- Use the machine according to the capacity values indicated in the technical features section. The identification plate shows the maximum number of people allowed on the platform at any one time, the maximum capacity and the tool and material weight. **Never exceed the indicated figures.**
- Do NOT use the framework of the platform or any of its elements for grounding connections while welding on the platform.
- It is absolutely forbidden to load and/or unload persons and/or material with platform not in the access position.
- It is the machine owner and/or safety manager's responsibility to check that the maintenance and repair operations are carried out by skilled personnel.

3.3 Use instructions

3.3.1 General

- The electric and hydraulic circuits are provided with safety devices, calibrated and sealed by the manufacturer:



DO NOT TAMPER WITH AND MODIFY THE CALIBRATION OF ANY COMPONENT OF THE ELECTRIC AND HYDRAULIC SYSTEMS.

- The machine must be used only in areas well lit up, checking that the ground is flat and firm. The machine may not be used if the lighting conditions are not sufficient. The machine is not equipped with any lightning system.
- Before using the machine check its integrity and conservation state.
- During maintenance operations do not dispose of any waste materials in the environment, but comply with current regulations.
- Do not carry out any service or maintenance operations when the machine is connected to the mains supply. Follow the instructions given in the following paragraphs.
- Do not approach the electric and hydraulic system components with sources of heat or flames.
- Do not increase the max. allowed height by means of scaffolds, ladders or other.
- With the machine lifted, do not fasten the platform to any structure (beams, pillars or wall).
- Do not use the machine as a crane, hoist or lift.
- Protect the machine (in particular the platform control panel by means of the specially provided cover- optional) and the operator when working in adverse environmental conditions (painting, de-painting, sand-blasting, washing, etc.).
- Using the machine in bad weather conditions is forbidden; in particular, wind speeds must not exceed the limits indicated in the technical specifications (to measure speeds, see following chapters).
- Machines with a wind speed limit of 0 m/s are to be used indoors only.
- In the event of rain or in parking condition always protect the platform control panel by means of the specially provided cap (optional).
- Do not use the machine in areas where risks of fire or explosion exist.
- Do not use pressurized water jets (high-pressure cleaners) to wash the machine.
- Overloading the work platform is forbidden.
- Avoid collisions and/or contacts with other vehicles and fixed structures.
- Leaving or accessing the work platform is forbidden unless this is in the position required for access or leaving (see the "Accessing the platform" chapter).



3.3.2 Handling

- Before handling the machine check that the connection plugs are disconnected from the power supply source.
- In order to avoid any instability, use the machine on regular and firm grounds. To prevent the machine from overturning, comply with the max. gradeability values indicated in the Technical data section under paragraph "**Stability limits**". However, movements on inclined grounds are to be carried out with the utmost caution.
- As soon as the platform is lifted (the tolerance varies from model to model) the safety drive speed is automatically activated (all models of this handbook have passed the stability Tests in compliance with standard EN280).
- Drive the machine with lifted platform only on flat grounds, verifying the absence of holes or steps on the floor and bearing in mind the overall dimensions of the machine.
- Backward drive (in the direction of the fixed wheels) does not allow the operator a complete visibility from the control position. This operation shall be carried out with the utmost care.
- While driving the machine with lifted platform the operators are not allowed to place horizontal loads onto the platform (operators on board must not pull ropes, wires, etc.).
- The machine must not be used directly for road transport. Do not use it for material transport (see chapter "Intended use").



- Do not operate the machine if components boxes are not properly closed.
- Check that in the operating area there are not obstacles or other dangerous elements.
- Pay particular attention to the area above the machine during lifting to avoid any crushing and collisions.
- During operation keep your hands in safety position, the driver has to place them as shown in picture A or B while the transported operator has to keep them as shown in picture C.



3-2: Position of hands

3.3.3 Operating procedures

- The machine is equipped with an inclination control system disabling lifting in case of unstable positioning. Working operations can be resumed only after placing the machine in a steady position. Should the audible alarm (only if the platform is lifted) and the red light on the platform control panel turn on, the machine is not correctly positioned (see paragraphs relevant to "Use instructions"). Bring it to low position before starting operations again. If the tilt alarm is activated with platform lifted, the only possible platform operation is lowering.
- The machine is equipped with a platform overload controller disabling the platform lifting and lowering in case of overloading. In case of platform overloading when lifted, also drive is disabled. Platform operation can be resumed only after removing the overload. Should the audible alarm and the red light located on the platform control panel turn on, then the platform is overloaded (see chapter "Red warning light overload"). Remove the exceeding load before starting operations again.
- The machine is equipped with a device to avoid the risk of shearing and crushing in the lifting structure in compliance with EN280: the lowering movement is automatically stopped in a position where the vertical distance between the scissor ends is over 50 mm. In this condition the movement alarm warns about the danger condition by increasing its frequency. The operator on board the platform must release the lowering control and wait for the audible alarm to go off (about 3 sec.), before continuing lowering movement, performed as follows: the audible alarm and warning device (where fitted) immediately trip, at a higher frequency than normal, while movement is delayed by about 1.5 seconds. The above procedure also starts every time the lowering control is given at a platform height below that of automatic stop (see "Lifting and lowering" chapter).
- The machine features a device for checking the state of battery charge (battery protection device): when battery charge is at 20% the operator on the platform is informed of this condition through a flashing red light. In this condition lifting is disabled, battery should be immediately charged.
- Do not lean over the platform rails.
- Make sure that no people, apart from the operator, are in the area where the machine is operating. While moving the platform, the operator on board should pay particular attention to avoid any contact with the personnel on the ground.
- During operations in public areas, in order to prevent people other than the personnel from approaching the machine and being endangered, surround the working area by means of barriers or other suitable signs.
- Avoid severe weather conditions and, in particular, windy days.
- Lift the platform only if the machine is resting on solid and horizontal surfaces (see following chapters).
- Drive the machine with lifted platform only if the ground is solid and horizontal.
- After each work session, always take the keys out of the control panels and keep them in a safe place to prevent unauthorized people from using the machine.
- Always place working tools in a steady position to prevent them from falling and hurting the operators on the ground.



When choosing the positioning point of the chassis, to prevent unexpected possible contacts with obstacles, always observe the figures carefully as these make it possible to identify the range of action of the platform (chap. 2).

3.3.4 Wind speed according to BEAUFORT SCALE

You can use the table below for a simple assessment of the wind speed. We remember that the max. limit for each machine model is indicated in the table TECHNICAL FEATURES OF STANDARD MACHINES.



The machines for which the max. wind limit is 0 m/s must be used indoors only. These machines cannot be used outdoors even with no wind.

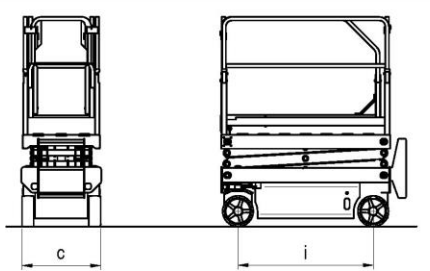
Beaufort Number	Wind speed (km/h)	Wind speed (m/s)	Description	Sea conditions	Land conditions
0	0	<0.28	Calm	Flat	Calm. Smoke rises vertically.
1	1-6	0.28–1.7	Light air	Ripples without crests.	Wind motion visible in smoke.
2	7-11	1.7–3	Light Breeze	Small wavelets. Crests of glassy appearance, not breaking.	Wind felt on exposed skin. Leaves rustle.
3	12-19	3–5.3	Gentle breeze	Large wavelets. Crests begin to break; scattered whitecaps.	Leaves and smaller twigs in constant motion.
4	20-29	5.3–8	Moderate breeze	Small waves.	Dust and loose paper raised. Small branches begin to move.
5	30-39	8.3-10.8	Fresh breeze	Moderate (1.2 m) longer waves. Some foam and spray.	Smaller trees sway.
6	40-50	10.8-13.9	Strong breeze	Large waves with foam crests and some spray.	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult.
7	51-62	13.9-17.2	Near gale / moderate gale	Sea heaps up and foam begins to streak.	Whole trees in motion. Effort needed to walk against the wind.
8	63-75	17.2-20.9	Fresh gale	Moderately high waves with breaking crests forming spindrift. Streaks of foam.	Twigs broken from trees. Cars veer on road.
9	76-87	20.9-24.2	Strong gale	High waves (6-7 m) with dense foam. Wave crests start to roll over. Considerable spray.	Larger branches break off trees, construction/temporary signs and barricades blown over, damage to circus tents and canopies.
10	88-102	24.2-28.4	Whole gale / Storm	Very high waves. The sea surface is white and there is considerable tumbling. Visibility is reduced.	Trees broken off or uprooted, saplings bent and/or deformed, poorly attached asphalt shingles and shingles in poor condition peel off roofs.
11	103-117	28.4-32.5	Violent storm	Exceptionally high waves.	Widespread vegetation damage, minor damage to most roof shingles/surfaces, gravel may be blown from flat roofs.
12	>117	>32.5	Hurricane	Huge waves. Air filled with foam and spray. Sea completely white with driving spray. Visibility greatly reduced.	Considerable and widespread damage to vegetation, a few windows broken, structural damage to mobile homes and poorly constructed sheds and barns.

3.3.5 Pressure of the machine on ground and load-bearing capacity of ground

Before using the machine, the operator must make sure the floor is suitable for withstanding the specific loads and pressures on the ground with a certain safety margin.

The following chart provides the parameters in play and two examples of calculation of the average pressure on the ground below the machine and max pressure underneath the wheels or outriggers (p1 and p2).

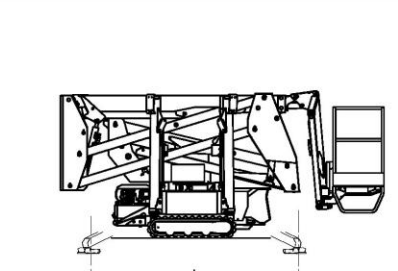
SYMBOL	U.M.	DESCRIPTION	EXPLANATION	FORMULA
P1	Kg	Total machine weight	It represents the machine weight, nominal load excluded. Note: always refer to the details indicated on the plates affixed to the machine.	-
M	Kg	Nominal Load	The max. load allowed for the work platform.	-
A1	cm ²	Area occupied on the ground	Machine supporting area on the ground determined by the result of TRACK x WHEEL BASE.	$A1 = c \times i$
c	cm	Track	Cross width of machine measured outside the wheels. or: Cross width of machine measured between levelling outrigger centres.	-
i	cm	Wheel base	Longitudinal length of machine measured between wheel centres. or: Longitudinal length of machine measured between levelling outrigger centres.	-
A2	cm ²	Wheel or levelling outrigger area	Wheel or levelling outrigger ground support area. The wheel support area on the ground must be verified empirically by the operator; the levelling outrigger support area depends on the shape of the support foot.	-
P2	Kg	Max. load on wheel or levelling outrigger	This represents the max. load that can be discharged onto the ground by a wheel or by a levelling outrigger when the machine is in the worst position and load conditions. Note: always refer to the details indicated on the plates affixed to the machine.	-
p1	Kg/cm ²	Pressure on ground	Average pressure placed on the ground in idle conditions and supporting the nominal load.	$p1 = (P1 + M) / A1$
p2	Kg/cm ²	Max specific pressure	Max. pressure which a wheel or a levelling outrigger can place on the ground when the machine is in the worst position and load conditions.	$p2 = P2 / A2$



EXAMPLE 1: SCISSOR LIFT

P1 = 1395 kg
P2 = 680 kg
M = 250 kg
c = 76,5 cm
i = 132,0 cm
A1 = c x i = 10098 cm²
A2 = 71,5 cm²

$p1 = (P1+M)/A1 = 0,16 \text{ kg/cm}^2$
 $p2 = P2/A2 = 9,5 \text{ kg/cm}^2$



EXAMPLE 1: CRAWLER LIFT

P1 = 2200 kg
P2 = 920 kg
M = 200 kg
c = 295 cm
i = 295 cm
A1 = c x i = 87025 cm²
A2 = 62,8 cm²

$p1 = (P1+M)/A1 = 0,03 \text{ kg/cm}^2$
 $p2 = P2/A2 = 14,6 \text{ kg/cm}^2$

The table below shows the load-bearing capacity of the ground split up by ground type. Refer to the data contained in the specific tables of each model (chapter 2, TECHNICAL FEATURES OF STANDARD MACHINES) to obtain the figure relating to the max pressure on the ground caused by the single wheel.



Using the machine is forbidden if the max pressure on the ground per wheel is above the load-bearing capacity of the specific type of ground on which the machine is to be used.

TYPE OF GROUND	BEARING CAPACITY IN Kg/ cm ²
Non compact filling earth	0 – 1
Mud, peat, etc.	0
Sand	1.5
Gravel	2
Friable earth	0
Soft earth	0.4
Rigid earth	1
Semi-solid earth	2
Solid earth	4
Rock	15 - 30

Should you have any doubts, verify the load-bearing capacity with specific tests. In case of constructed surfaces (concrete floors, bridges, etc.) the load-bearing capacity must be provided by the builder.

3.3.6 High-tension lines

The machine is not electrically insulated and is not protected in case of contact with or vicinity to power lines. A minimum distance must be kept from the power lines according to the applicable laws and the following table

Type of power lines	Voltage (KV)	Minimum distance (m)
Light poles	<1	3
	1-10	3.5
	10 - 15	3.5
	15 - 132	5
	132 - 220	7
	220 - 380	7
High-voltage pylons	>380	15

3.4 Hazardous situations and/or accidents

- If, during Preliminary Operation Checks or when using the machine, the operator discovers a defect that could produce a hazardous situation, the machine must be placed in **safety condition** (isolate it and affix a notice) and the employer must be notified about the fault.
- If, during use, an accident occurs, with injury to the operators, caused by operating errors (e.g., collisions) or any structural yielding, the machine must be placed in **safety condition** (isolate it and affix a notice) and the employer must be notified about the fault.
- In case of an accident with injuries to one of more operators, the operator on the ground (or on a platform not involved in the accident) must:
 - **Seek help immediately**
 - Perform the operation to return the platform to the ground **only if he is certain this will not make the situation worse.**
 - Place the machine in safety condition and notify the fault to the employer.

4. INSTALLATION AND PRELIMINARY CHECKS

The machine is supplied completely assembled, therefore it can perform all functions in safety as provided for by the manufacturer. No preliminary operation is required. To unload the machine, follow the instructions in chapter "Handling and carrying". Place the machine on a sturdy enough surface (see paragraph 3.3.5) and with a gradient below max. allowed gradient (see technical features "Stability limits").

4.1 Becoming acquainted with the machine

Anyone wishing to use a machine with weight, height, width and length characteristics or which generally differs significantly from the training received must be updated in order to cover the differences.

The employer shall be responsible for ensuring all the operators who use work equipment are adequately trained and in order with applicable health and safety legislation.

4.2 Preliminary operation checks

Before using the machine read the instructions given in this manual and the concise instructions indicated on the platform plate. Check the perfect integrity of the machine (by sight check) and read the plates showing machine operating limits.

Before using the machine the operator must always check visually that:

- The battery is completely charged.
- The oil level lies between the min. and max. value (with lowered platform).
- The ground is sufficiently horizontal and solid.
- The machine carries out all operations in safety.
- The wheels and drive motors are properly fixed.
- The wheels are in good condition.
- Make sure the rails are fastened to the platform and the gate/s are in automatic reclosing mode.
- The structure does not show clear faults (visually check welding of lifting structure).
- The instructions plates are perfectly readable.
- i comandi siano perfettamente efficienti sia dal posto di comando in piattaforma che dal posto di comando di emergenza sul carro di base, compreso il sistema "uomo presente".
- The anchoring points for the harness are in perfect state of conservation.
- The sealing on the by-pass connector of the overload controller is intact (placed in the oil tank side compartment, next to the controller (ref. Figure 7-10).

Do not use the machine for purposes different from those it was intended for.

5. USE INSTRUCTIONS

Before using the machine read this chapter thoroughly.



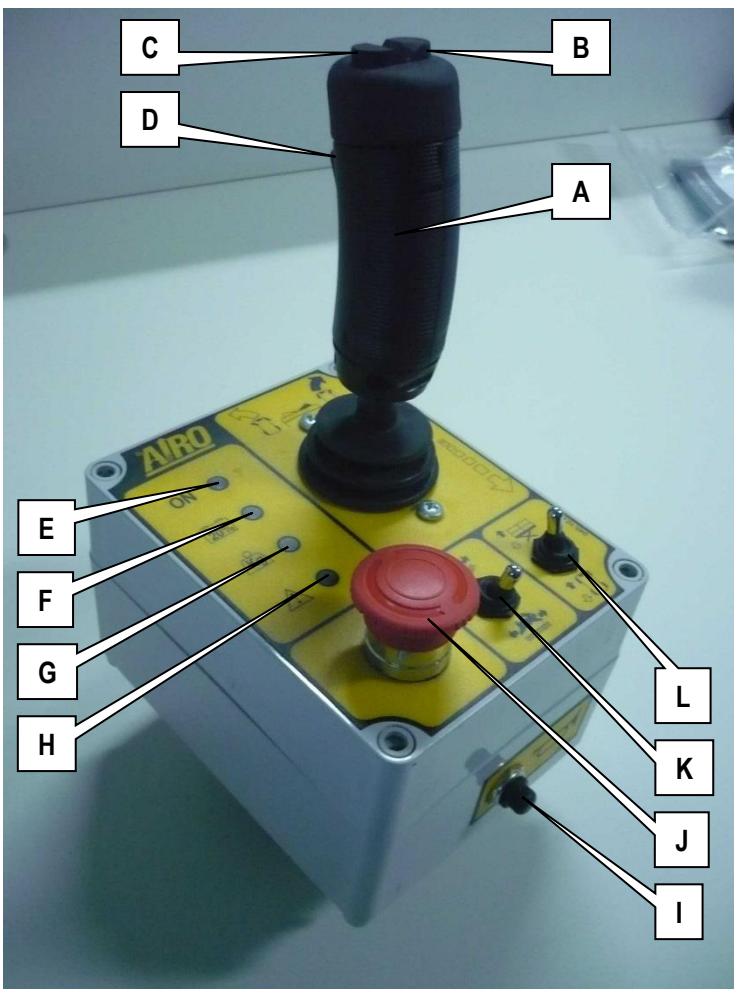
WARNING!

Follow exclusively the instructions given in the next paragraphs and the safety rules described both hereafter and in the previous paragraphs. Read the next paragraphs carefully in order to properly understand the on/off procedures as well as all operations and their correct use.

5.1 Platform control panel

The control panel is located on the platform. The control panel is fixed to the right rail and is used to:

- Turn the machine ON/OFF.
- Select the operating mode (lifting/lowering or drive).
- Move the platform during ordinary working procedures.
- Display some parameters (alarms, dead-man's working, etc...).



- A. Proportional joystick control for platform drive / lifting / lowering
- B. Switch for "RIGHT" steering
- C. Switch for "LEFT" steering
- D. Dead-man switch
- E. Enabled control panel warning light
- F. Flat battery warning light
- G. Platform overload warning light
- H. Danger warning light due to instability or malfunctioning of the electric system
- I. Horn switch
- J. Emergency stop button
- K. Drive speed selector (hare/snail)
- L. Movement selector (drive or lifting/lowering)

5-1: Platform control panel

All movements (steering excluded) are controlled by proportional joystick control; it is therefore possible to adjust movement speed by means of the relative controls (except lowering which occurs by gravity). To avoid sudden shakes during movements, it is advisable to operate the proportional joystick controls gradually. For safety reasons, to operate the machine, press dead-man switch **D** on the front part of the proportional joystick before activating the joystick. If the dead-man switch is accidentally released while the machine is operating, the movement is immediately stopped. To resume the operation, release the joystick and follow the steps described above.

WARNING!



Holding down the dead-man switch for over 10 seconds without carrying out any operation will disable the control panel. The green led (E) is OFF in this condition. To operate the machine again release the dead-man switch and press it again. Now, the green led (E) will light up steady and for the next 10 seconds all controls will be enabled.

5.1.1 Drive and steering



Before carrying out any displacement operation, verify that no people are in proximity of the machine and in any case proceed with the utmost caution.



It is forbidden to drive the machine when platform is lifted unless the ground is flat and steady with no holes and/or steps.

The controls used to move the machine (refer to figure5-1) are:

- Joystick control **A**
- Movement selector (drive or lifting/lowering) **L**
- Switch for "RIGHT" steering **B**
- Switch for "LEFT" steering **C**
- Drive speed selector (hare/snail) **K**
- Dead-man switch **D**

To drive the machine, carry out the following operations in sequence:

- select "drive" mode with selector **L**
- press dead-man switch **D** (the green led **E** will light up steady indicating its enabling)
- within 10 seconds from the green steady led lighting up, set the proportional joystick control **A** forward for forward drive or backward for reverse drive by holding down the dead-man switch as long as the movement has been carried out.

By means of the speed selector **K** you can select two drive speeds:

- Low speed with selector in "Snail" position
- High speed with selector in "Hare" position

To steer use steering switches **B** or **C** while activating dead-man switch **D**; press button **B** for right steering and button **C** for left steering.

NOTE:

To achieve maximum drive speed, set speed selector **K** to position "Hare", and activate joystick control **A**.

To drive the machine on steep upward or downward slopes (for instance, while loading/unloading the machine onto/from a truck) set speed selector **K** to position "Snail" and activate joystick control **A**.

With platform lifted, **safety drive speed** is automatically enabled regardless of the position of speed selector **K**.

5.1.2 Drive with operator on the ground

If drive operations are to be carried out not from the preset control panel on the platform (e.g. transit through doors where the machine height is too high) you can proceed as follows:

- Lower the machine completely.
- Remove the platform control panel.
- If necessary, remove or fold down the rails to further reduce the overall height.
- Select the slow drive speed ("Snail").
- Carry out the movements at a safety distance from the machine of at least 1 metre.
- Pay attention to the directions of drive and steering, keeping in mind that the indications on the "platform control panel" refer to its preset position (fixed to the rails).



IT IS FORBIDDEN
To lift/lower the machine using the ground control panel

5.1.3 Platform lifting and lowering

The following controls are to be used to lift and lower the platform (see **FIGURE 5-1**):

- Joystick control **A**
- Movement selector **L**
- Dead-man switch **D**

To lift/lower the platform carry out the following operations in sequence:

- Select "lift/lower" mode with selector **L**.
- Press dead-man switch **D** (the green led **E** will light up steady indicating its enabling).
- Within 10 seconds from the green steady led **E** lighting up, set proportional joystick control **A** forward for lifting or backward for lowering by holding down dead-man switch **D** as long as the movement has been carried out.

Platform lowering is performed at fixed speed.

NOTE:

The machine is equipped with a device to avoid the risk of shearing and crushing in the lifting structure in compliance with "EN280".

The lowering movement is automatically stopped in a position where the vertical distance between the scissor ends is over 50 mm. In this condition the movement alarm warns about the danger condition by increasing its frequency. The operator on board the platform must release the lowering control and wait for the audible alarm to go off (about 3 seconds) before continuing lowering movement, performed as follows: the audible alarm and warning light (where fitted) immediately trip, at a higher frequency than normal, while movement is delayed by about 1.5 seconds.

The above procedure also starts every time the lowering control is given at a platform height below that of automatic stop.

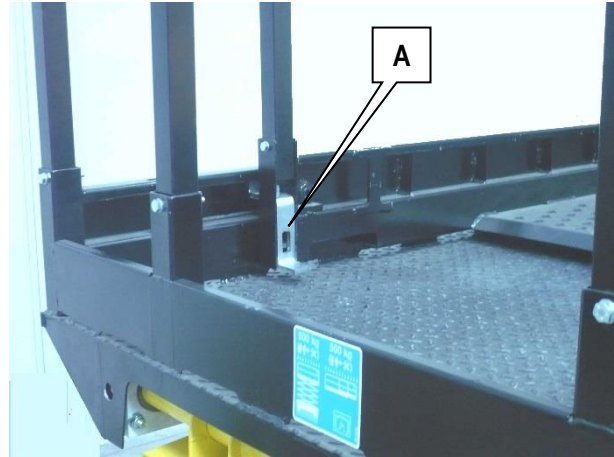


Before carrying out any LIFTING or LOWERING operation, verify that no people are in proximity of the machine and in any case proceed with the utmost caution.

5.1.4 Manual extension of the platform

The extension of the mobile platform is carried out manually. To extend the mobile platform (Figure 5-2) you have to:

- Press lock pedal **A**.
- Manually push the platform from the inclined part of the rails while holding down pedal **A**.
- Release pedal **A** close to one of the provided slots depending on the extension you wish to achieve.
- Make sure that lock pedal **A** is actually inserted into the slot to be sure that the mobile platform is locked.



5-2: Mobile platform extension unlock pedal

5.1.5 Other functions of the platform control panel

5.1.5.1 Manual horn

I – Figure 5-1 : Horn to warn that the machine is moving. The manual operation of the horn is carried out by pressing key I

5.1.5.2 Emergency stop button

J - Figure 5-1: By pressing the red emergency STOP button all control functions of the machine are stopped. Normal functions are enabled by rotating the button of 1/4 turn clockwise.

5.1.5.3 Green warning light, control panel enabled

E - Figure 5-1: Lit up flashing when the machine is turned on: If the platform control panel has been selected and this light flashes the controls are not enabled because the dead-man switch **D** is not pressed or it was pressed for more than 10 seconds and no operation was performed.

Lit up steady with machine on and dead-man switch **D** pressed for less than 10 seconds: With platform controls, all controls are enabled (unless other warnings are present).

5.1.5.4 Red warning light, flat battery

F - Figure 5-1: Flashing when battery is charged at 20% only. In this condition, lifting is disabled. Batteries should be immediately recharged.

5.1.5.5 Red warning light, overload

G - Figure 5-1: Flashing with activation of audible alarm with a platform overload exceeding 20% the nominal load. If platform is lifted, the machine is completely locked. If platform is lowered all driving/steering operations are still possible but lifting is disabled. Remove the overload before using the machine again.

Fast flashing with audible alarm activated in case of fault in the platform overload controller. With lifted platform the machine is completely locked.

5.1.5.6 Red warning light, danger due to instability or drive control disable

H - Figure 5-1: Lit up steady with activation of audible alarm (the audible alarm is active only if the platform is lifted) when the machine is not perfectly levelled. Lifting movement is no longer possible (nor drive if platform is lifted). To use the machine again lower the platform completely and position the machine on an even ground to ensure its stability. Or, in condition of platform lifted, with one or both pot-hole guards not lowered, drive control is disabled.

5.2 Ground control panel

The ground control panel is located on the chassis (see paragraph "Location of main components") and is used to:

- Turn the machine ON/OFF.
- Select the control panel (ground or platform).
- Operate the platform in emergency cases.
- Display some working parameters (work hours, battery charge level, etc...).



IT IS FORBIDDEN
To use the ground control panel as a workstation when personnel is on the platform.

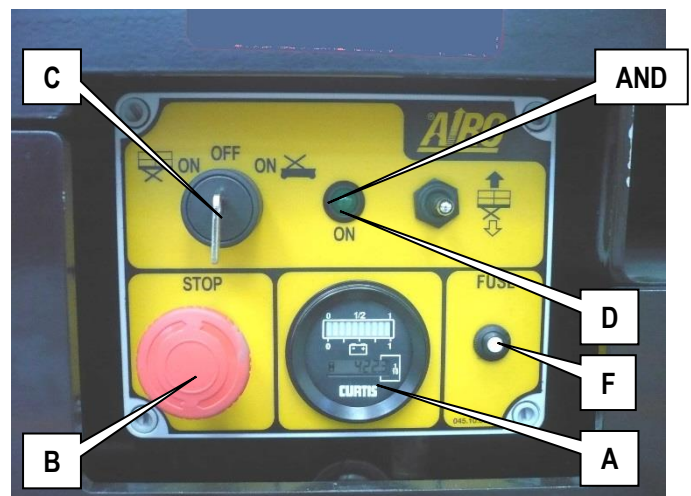


Use the ground control panel only to start/stop the machine, to select the control panel or in emergency situations to allow the platform to be recovered.



Give the key to authorized persons and keep a duplicate in a safe place.
Always remove the on/off key at the end of work shifts.

- A. Hour-meter / battery protection voltmeter
- B. Emergency STOP button
- C. On-off key / control panel selection
- D. Enabled control panel warning light
- E. Platform lifting/lowering lever
- F. Fuse
- G. Movement alarm



5-3: Ground control panel

5.2.1 Hour meter/battery protection (A)

The hour-meter displays the working hours of the electric pump. Platform lowering occurs by gravity and does not require the switching on of the electric pump, therefore the time used for this operation is not counted by the hour-meter.

The function of the battery protection Voltmeter is for preserving the battery, avoiding it from discharging excessively. Once the battery has reached a discharge level of 20%, the control system informs the operator on board of this condition through the red flashing led (previously described). Lifting is disabled and batteries must be recharged. On the ground control panel, the condition of flat battery is reported in the following way:

- The last two leds on the left flash alternatively if the indicator is round-shaped.
- Only the last two small squares are lit if the indicator is a LCD display.

5.2.2 Emergency stop button (B)

If you press this button, the machine is completely switched off. By rotating it of 1/4 turn (clockwise) the machine can be turned ON by means of the ON-OFF key.

5.2.3 On-off key / control panel selection (C)

The on-off key located on the ground control panel is used to:

- turn ON the machine by selecting one of the two control panels:
 - Platform control panel enabled with locking key switch set to platform symbol. Stable position with possibility to extract the key.
 - Ground control panel enabled (for emergency operations) with locking key switch set to chassis symbol. Position with action to be kept. When the key is released the machine is turned off.
- Turn OFF the control circuits by turning it to OFF. Stable position with possibility to extract the key.

5.2.4 Warning light: control station enabled (D)

The green light is ON when the machine is turned ON and the ground control panel is enabled (the on/off key (C) should be kept in chassis position).

5.2.5 Platform lifting/lowering lever (E)

This lever is to be used to lift or lower the platform. This control can be operated only if the on-off key is set to ON downwards (ground control panel selected). We shall also remind you that the ground controls are to be used to operate the platform only in emergency situations and must not be used for any other purposes.

5.2.6 Movement alarm

The machine has an audible alarm that is activated as follows:

- Always with intermittent sound, every 2 seconds approx., to indicate any movement of the machine.
- With intermittent sound every 0.5 seconds to indicate the danger of being trapped in the lifting structure during the last section of the lowering movement (see par. "Platform lifting/lowering").

5.3 Platform access

The “access position” is the only one from which loading or unloading of persons and materials is allowed. The “access position” to the work platform is the completely lowered configuration.

To access the platform (Figure 5-4):

- Get on ladder **A** hanging on to the rungs, the ladder stringers or the entry guard rails.
- Raise bar **B** and get on board.

Check that, once you are on the platform, the bar falls down closing the access. Fasten the safety harness to the provided hooks.



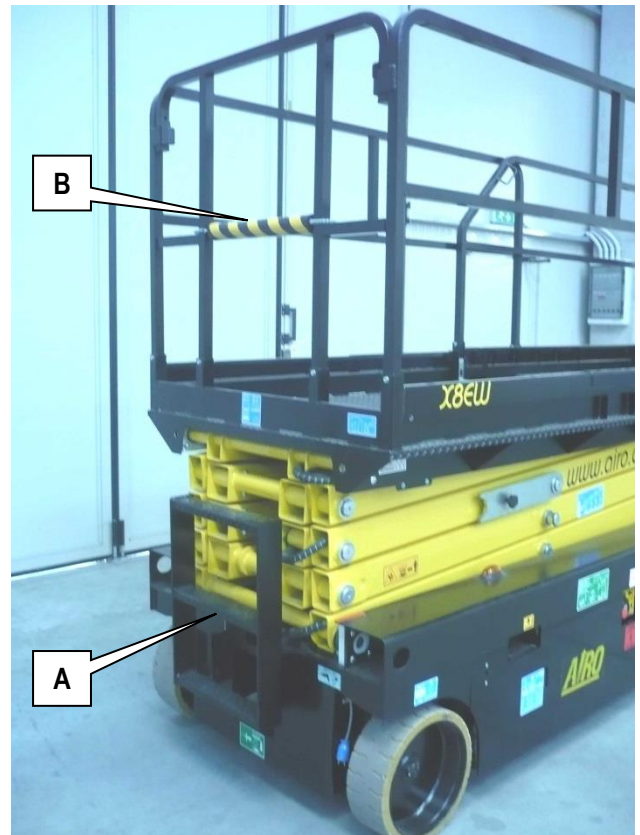
To get on the platform use only the access equipment the platform is provided with. When moving up or down, always keep your eyes on the machine and hold onto the entry stringers.



IT IS FORBIDDEN
Lock the closing bar so as to keep the platform access door open.



IT IS FORBIDDEN
To leave or access the work platform unless this is in the position required for access or leaving.



5-4: Platform access position/leaving position

5.4 Machine start-up

To start the machine the operator shall:

- release the emergency stop button on the ground control panel by rotating it of 1/4 turn clockwise;
- turn the on-off key on the ground control panel to "Platform" position;
- remove the starting key and hand it over to a person in charge on ground, properly informed of the use of the emergency controls;
- get onto the platform;
- Release the emergency stop button on the platform control panel (see previous paragraphs).

At this point the various functions can be performed by thoroughly following the instructions given in the previous paragraphs.



To turn on the machine, the battery charger must be disconnected from the mains (see paragraph 7.4.3). If the battery charger is working, the machine is off and cannot be turned on.

5.5 Machine stop

5.5.1 Normal stop

During the normal stop of the machine, if you release the controls, the operation is stopped. Stop occurs within a time limit set in the factory, which guarantees smooth braking.

5.5.2 Emergency stop button

Should it be necessary, the operator may immediately stop all machine functions on both platform and ground control panel.

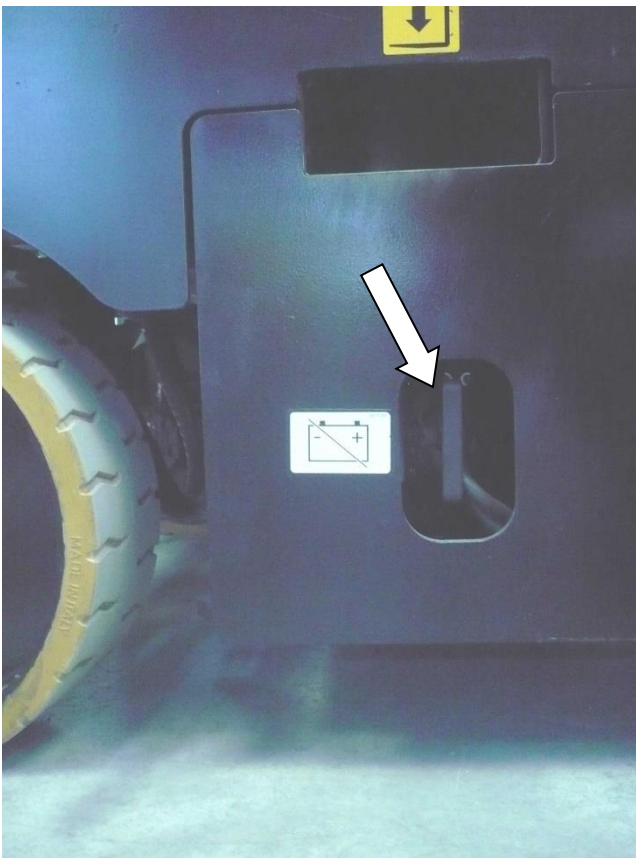
On the platform control panel press the emergency stop button and the machine is turned off.

On the ground control panel:

- Press the emergency stop button on the ground control panel and the machine will be turned off.
- By pulling out the power connector (Figure 5-5) (battery side) the machine power is cut out (power circuit cut-out).

To resume the operations:

- On the platform control panel turn the emergency stop button by a $\frac{1}{4}$ of turn clockwise.
- On the ground control panel turn the emergency stop button by a $\frac{1}{4}$ of turn clockwise and insert the connector thoroughly to power the machine again.



5-5: Power connector "X" series



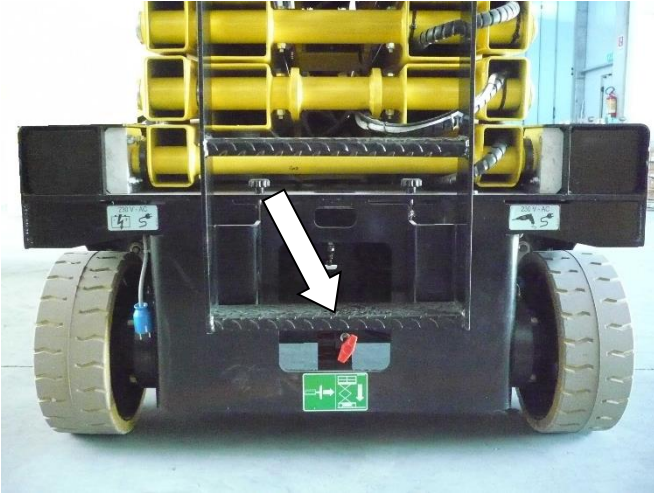
Power connector "XS E RESTYLING" series

5.6 Manual emergency lowering

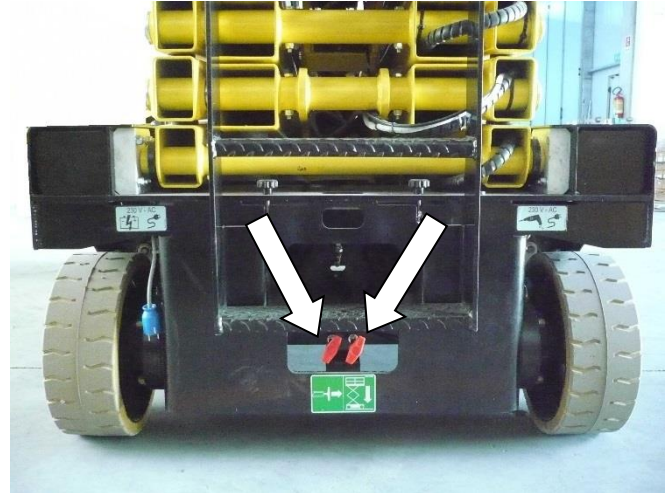


IT IS FORBIDDEN
to use the manual emergency lowering control to lower the platform with overloads.

5.6.1 Manual emergency lowering Standard control



5-6: Manual emergency lowering with one knob



5-7: Manual emergency lowering with two knobs

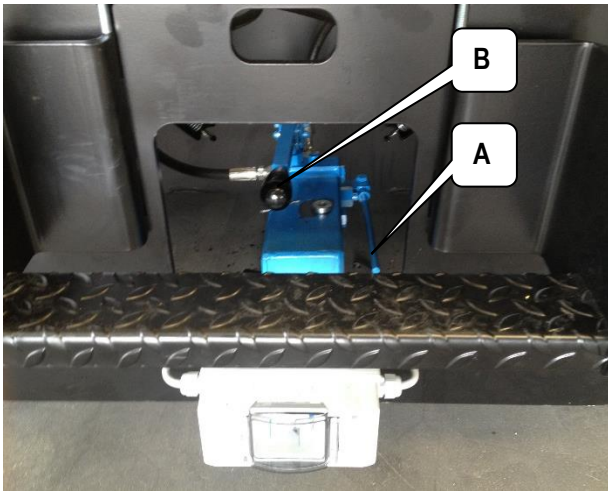
In case of fault in the electric or hydraulic system, to carry out the manual emergency lowering procedure pull out the knob indicated in the (Figure 5-6).

Where two knobs are present, these should be activated both of them according to the sequence shown in the plate (Figure 5-7). Caution, the emergency control can be stopped at any time by releasing the knob.

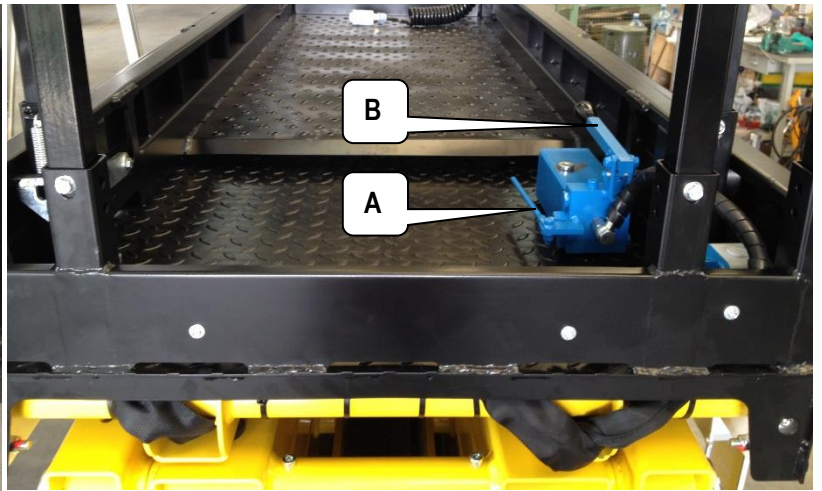


This function is to be used only in emergency situations when no motive power is available.

5.6.2 Manual emergency lowering Optional control with manual pump



5-8: Manual emergency lowering from the ground



5-9: Manual emergency lowering from the platform

On request the machines can be equipped with double emergency lowering from the ground and the platform, as shown in the pictures above. The manual pump on the platform is protected by a metal protection fixed to the platform deck through two threaded knobs. So it is necessary to remove the protection in advance in order to operate it.

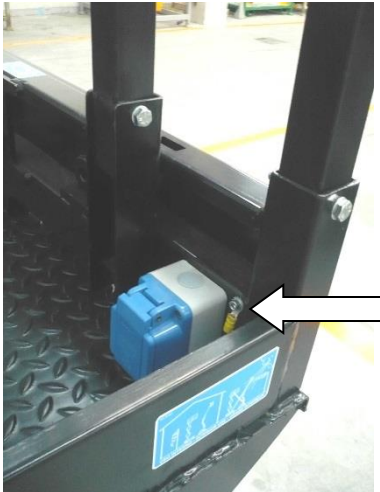
In case of fault in the electric or hydraulic system, to carry out the manual emergency lowering procedure hold down the lateral lever **A** and operate the superior lever **B**. Lever **B** can be operated many times before obtaining the lowering movement.

Caution, the emergency control can be stopped at any time by releasing the lateral lever **A**.

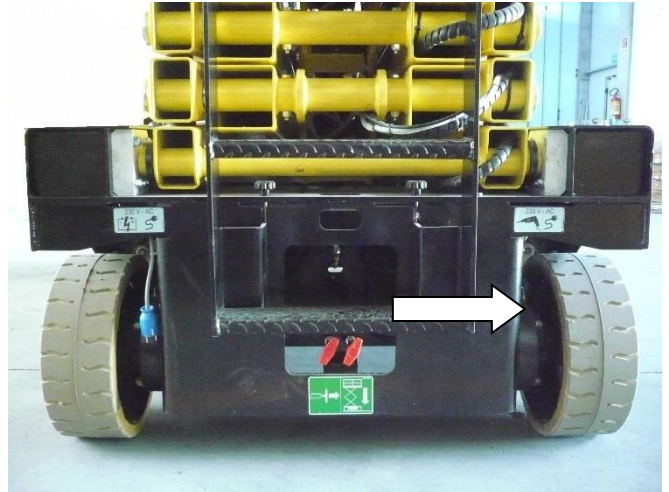


This function is to be used only in emergency situations, when no motive power is available.

5.7 Socket for electric tool connection (optional)



5-8: Platform current socket



5-9: Electric line connection plug

The work platform can be equipped with a socket (230V Ac) enabling the operator to connect the electric tools necessary to carry out his operations.

To activate the electric line (see pictures above) introduce a cable into the plug connected to the 230V AC 50 Hz mains, with all protections according to the current standards in force.

The plugs and sockets equipped on standard machines comply with EEC standards and can therefore be used in EU member countries. On request the machine can be equipped with plugs and sockets in compliance with local standards or with particular needs.

Connect to the power mains having the following features:

- Power voltage 230V \pm 10%.
- Frequency 50 \pm 60 Hz.
- Activated grounding line.
- Working protection devices according to current standards in force.
- Do not use extension leads exceeding 5 metres to connect to the mains.
- Use a cable of suitable section (min 3x2.5 mm²).
- Do not use rolled-up cables.



5.8 End of work

After stopping the machine according to the instructions given in the previous paragraphs:

- Always set the machine to rest position (platform completely lowered).
- Press the emergency Stop button on the ground control panel.
- Remove the keys from the control panel to prevent unauthorized people from using the machine.
- Recharge the battery according to the instructions given in section "Maintenance".

6. HANDLING AND CARRYING

6.1 Handling

To handle the machine in normal operating conditions, follow the instructions given in chapter "USE INSTRUCTIONS" under paragraph "Drive and steering".

When platform is completely lowered (or within a given height according to specific needs and further to checks) the machine can be handled (i.e. drive can be performed) at different speeds to be freely selected by the user.

When platform is lifted and exceeds a given height, machines with lowered pot-hole guards can be driven only at a lower speed (automatically reduced) up to the height specified in chapter "Technical Features".

It is important to make sure that the pot-hole guards function properly and there are no objects in the area where the device is operating.

WARNING!



Drive with lifted platform may be subject to different restrictions according to the country where the machine is used. Find out about the legislative limits concerning this operation from the bodies of Health and Safety at work.



It is absolutely forbidden to drive the machine when platform is lifted unless the ground is horizontal, flat and steady.



Before carrying out any displacement operation, verify that no people are in proximity of the machine and in any case proceed with the utmost caution.



Backward drive (in the direction of the fixed wheels) does not allow the operator a complete visibility from the control position. This operation shall be carried out with the utmost care.



Before handling the machine check that the connection plugs are disconnected from the power supply source.



Check that there are no holes and/or steps on the floor and bear in mind machine overall dimensions.



If the machine while travelling hits a hump or a hole with platform lifted (pot-hole guards lowered and safety speed enabled), the machine will rest on one or both guards with no danger to the operator. Now, if you lower the platform completely, and both driving wheels are lifted from the ground, the machine might not be able to quit the lock condition with its own means. Emergency towing is necessary (see par. "Emergency towing").



Do not use the machine to tow other vehicles.



While the machine is being displaced with lifted platform, no horizontal loads can be loaded onto the platform (operators on board are not allowed to pull wires or ropes, etc.).

6.2 Carrying

In order to carry the machine to the various working sites, follow the instructions given below. Considering the large dimensions of some models, before carrying, it is recommended to inquire about the overall dimension limits for road transport in force in your country.

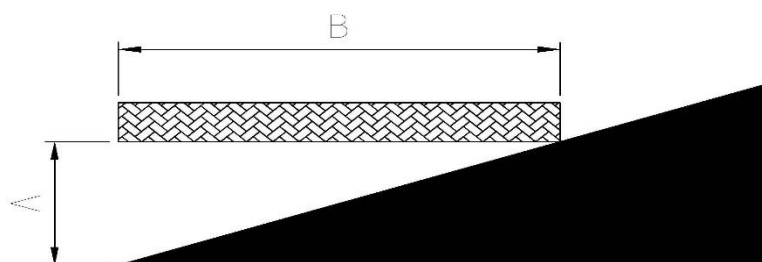


Before carrying the machine, turn it off and remove the keys from the control panels. No people are allowed in proximity to or on the machine to avoid any risks deriving from sudden movements. For safety reasons never lift or tow the machine by means of its booms or platform. Loading operations are to be carried out on a flat surface with a suitable capacity, after setting the platform to rest position.

To carry the machine the operator shall load it onto a vehicle either:

- **By means of loading ramps and translation controls** located on the platform he can load it directly onto the vehicle (if ramp slope is within the gradeability described in paragraph “TECHNICAL FEATURES” and ramp capacity is adequate to weight) according to the instructions given in paragraph “GENERAL USE RULES” under paragraph “Drive and steering” for correct operation of drive controls. If the slope exceeds the gradeability, the machine is to be towed by means of a windlass only if the operator on the platform simultaneously activates the drive control to release the parking brakes or the machine is in towing mode (see par. Emergency towing).

The gradient can be determined using an electronic level or empirically as described below: position a wood board of known length on the gradient to be measured. Position a spirit level on the wood board and lift the downstream extremity of the latter until it is level. Now measure the distance between the board and the ground (**A**), divide this by the length of the board (**B**) and multiply by 100. The following image sums up the method.



- **Through the 4 fastening holes** located on the 4 angles of the machine, it can be lifted by means of hooks and steel ropes (with safety factor = 5, see machine weight in Technical Features) connected to the provided holes as indicated in the figure 6-1.
- **Through a lift truck** of a suitable capacity (see machine weight in table “Technical features” at the beginning of this manual) equipped with forks having at least the same length as the machine width. Insert the forks as indicated by the stickers on the machine (see figure 6-2). Should these stickers be not available, **DO NOT** lift the machine by means of a lift truck. Lifting the machine by means of a lift truck is a dangerous operation, which must be carried out by qualified operators only.



6-1: Fastening holes



6-2: Forks chocks



After placing the machine onto the carrying vehicle, fasten it by means of the same holes used for lifting. To avoid breaking the platform overload controller, thus causing the machine to stop, **DO NOT fix the machine to the vehicle base by tying the platform (any model) or the last lifting boom.**



Before carrying the machine check the stability grade. The platform must be fully lowered and the platform extension must be in retracted position to ensure adequate stability during the entire operation.

6.2.1 Removable rails

Standard machines are fitted with rails which can be removed from the platform. Removing the rails it is possible to reduce the height of the machine for:

- carriage
- passage through lowered areas (e.g. doors)

To remove the rails remove the fixing screws.

Make sure the rails are properly secured before using the machine.

WARNING!

This operation is only for reducing the height of the stowed machine to facilitate carrying operations. It is absolutely forbidden to lift the unit with personnel on the platform if the rails are not raised and fixed.



6-3: Removable rails

6.2.2 Fold-down rails (optional)

The machine can be fitted with rails (optional) folding down to the inside of the platform. By folding down the rails the machine height can be reduced for:

- carriage
- passage through lowered areas (e.g. doors)

To fold down the rails, referring to the pictures of the next page:

1. Extend the mobile platform and lock it in the indicated position.
2. Remove the control panel.
3. Raise and turn the front rail to the inside.
4. Remove the locking pins of the two side sliding rails.
5. Turn to the inside and press downwards the side sliding rails.
6. Remove the locking pins of the entrance rail.
7. Raise and turn the entrance rail to the inside.
8. Remove the locking pins of the two fixed side rails.
9. Lift and turn the two side fixed rails to the inside.
10. Close the slide-out extension deck (in the "XS E RESTYLING" series this remains extended by one step).

To restore the initial condition, repeat the a.m. operations in reverse order.
Make sure the rails are properly secured before using the machine.

WARNING!



**THIS OPERATION IS ONLY FOR REDUCING THE HEIGHT OF THE STOWED MACHINE TO FACILITATE CARRYING OPERATIONS.
IT IS ABSOLUTELY FORBIDDEN TO LIFT THE UNIT WITH PERSONNEL ON THE PLATFORM IF THE RAILS ARE NOT RAISED.**

RAILS FOLDING-DOWN SEQUENCE



1



2



3



4



5



6



7



8



9



10

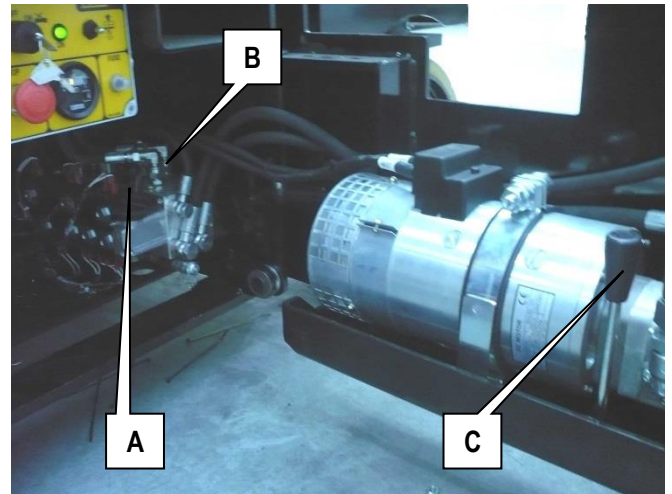
6.3 Emergency towing of the machine

In the event of a fault, carry out the following operations to tow the machine:

- Hook the machine to the provided holes (the same used for lifting – see previous pictures).
- Screw knob **B** completely on the hydraulic block.
- Screw lever **C** on manual pump **A**.
- Activate the manual pump until the control is bound; by doing so the parking brakes are unlocked.
- Tow at a very slow speed (remember that when the machine is being towed, brakes are out of order).

At the end of towing operation, resume initial conditions:

- Unscrew knob **B** completely.
- Remove lever **C** from the manual pump and set it to the position as shown in the figure.



6-4: Emergency towing



Tow at a very slow speed (remember that when the machine is being towed, brakes are out of order).

Tow only on a flat ground.

Do not park the machine without brakes on. Should the brakes be completely out of order put wedges under the wheels to prevent the machine from moving accidentally.

7. MAINTENANCE



- Always carry out maintenance operations with machine at a standstill position and after having removed the key from the control panel with the platform in rest position.
- The maintenance operations described below refer to a machine with ordinary working use. In case of difficult conditions of use (extreme temperatures, corrosive environments, etc.) or following long machine inactivity, it will be necessary to contact the AIRO assistance service to change the intervention schedule.
- Repairs and maintenance operations are to be carried out by trained and authorised personnel only. All maintenance operations should be carried out in compliance with the current work safety regulations (work places, personal protection equipment, etc...).
- Carry out only the maintenance and adjustment operations described in this user manual. In emergency situations (e.g. breakdown, wheels replacement) contact Our Technical Support.
- During interventions, check that the machine is completely locked. Before carrying out maintenance operations inside the lifting structure, check that this is off-line in order to avoid accidental lowering of the booms (chapter "Safety stop").
- Remove the battery cables and provide batteries with a suitable protection during welding operations.
- In case of replacement, use original spare parts only or spare parts approved by the manufacturer.
- Disconnect the 230V AC and/or 380V AC sockets, if any.
- The lubricants, hydraulic oils, electrolytes and all detergent products should be handled with care and disposed of in safety according to the current regulations. A prolonged contact with the skin may cause irritations and dermatosis; wash with water and soap and rinse thoroughly. Contact with eyes, especially with electrolytes, is also dangerous; rinse with water thoroughly and call the doctor.



WARNING!

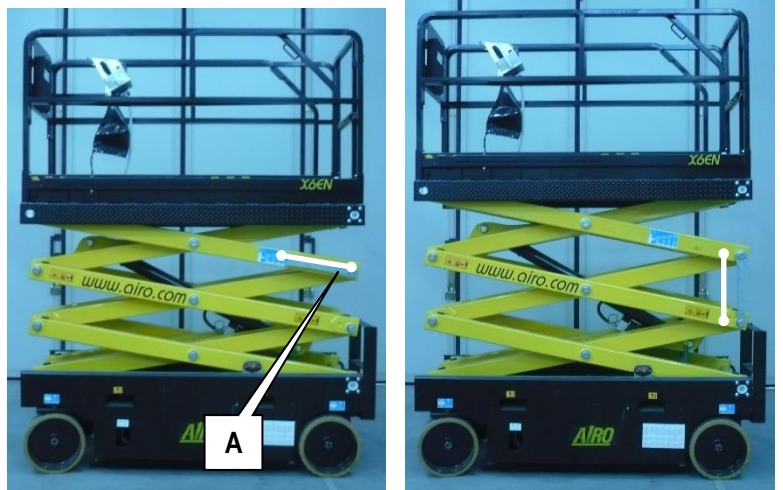
NEVER MODIFY OR TAMPER WITH MACHINE PARTS TO IMPROVE THE MACHINE PERFORMANCE AS THIS MAY AFFECT ITS SAFE OPERATION.

7.1 Safety lock for maintenance operations

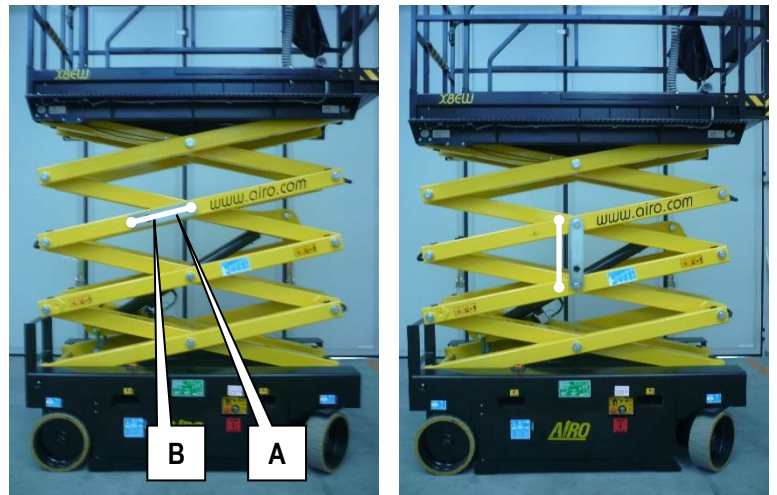
Before carrying out any maintenance or repairs to it, activate the lifting structure locking system.

Watch the pictures aside to understand how the lifting locking structure works before carrying out any maintenance or repairs to it.

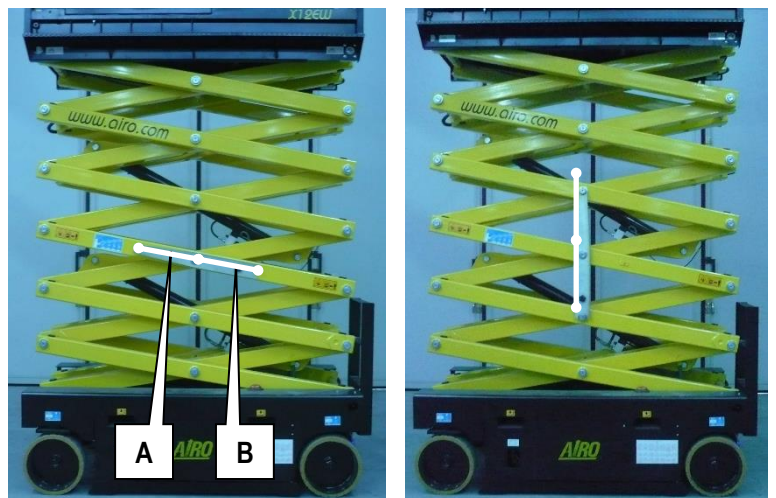
- Unscrew knobs **B** completely (on both sides of the lifting structure).
- Rotate safety bars **A** by setting them in vertical position.
- Lower the structure until it rests on bars **A** firmly.
- Check the correct positioning of bars **A**.



7-1: Scissors locking X8 EN, XS7 E RESTYLING



7-2: Scissors locking X10 EN, X10 EW, X10 EW-WIND, XS8 E RESTYLING LIGHT, XS8 E RESTYLING



7-3: Scissors locking X12 EN, X12 EW, X12 EW-WIND, X14 EW, X16 EW, XS9 E RESTYLING

7.2 Machine cleaning

To clean the machine use non-pressurized water jets after properly protecting the following parts:

- The control panels (both platform and ground)
- All electric boxes and electric devices in general
- The electric motors



Do not use pressurized water jets (e.g. high-pressure cleaners) to clean the machine.

After washing the machine, always:

- Dry the machine.
- Check integrity of plates and stickers.
- Lubricate the articulated joints equipped with greaser and the sliding ways.

7.3 General maintenance

Below are listed the main maintenance jobs to be done and the relevant schedule (the machine features an hour meter).

OPERATION	FREQUENCY
Screw tightening (paragraph "Various adjustments")	After the first 10 working hours
Oil level check in hydraulic tank	After the first 10 working hours
Battery state (charge and liquid level)	Every day
Deformation of tubes and cables	Every month
Stickers and code plates	Every month
Articulated joints / sliding blocks greasing	Every month
Oil level check in hydraulic tank	Every month
Emergency devices efficiency check	Every year
Electric connections check	Every year
Hydraulic connections check	Every year
Periodic operation check and structure visual check	Every year
Screw tightening (paragraph "Various adjustments")	Every year
Pressure relief valve calibration check	Every year
Lifting circuit pressure relief valve calibration check	Every year
Braking valve efficiency check	Every year
Inclinometer operation check	Every year
Platform overload controller operation check	Every year
M1 microswitch operation check	Every year
MPT1 and MPT2 microswitches operation check	Every year
Dead-man switch check efficiency	Every year
Total oil change in hydraulic tank	Every two years
Hydraulic filter replacement	Every two years



IT IS NECESSARY

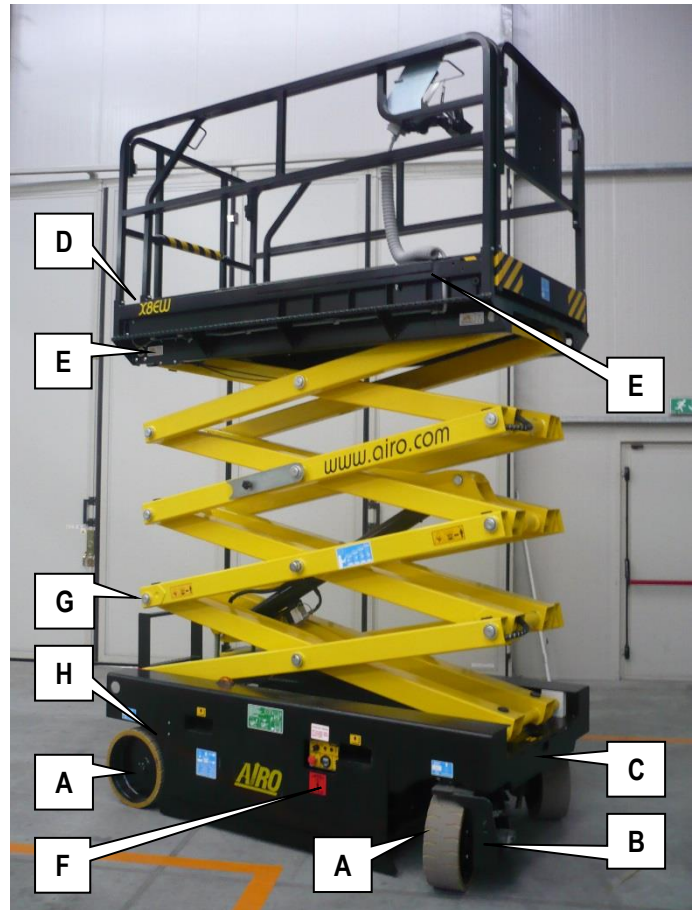
**TO SEND THE MACHINE TO THE MANUFACTURER WITHIN 10 YEARS OF WORK
WITHIN 10 YEARS OF WORK.**

7.3.1 Various adjustments

Check the conditions of the following components and, if necessary, tighten (Figura 7-4):

- A. Wheels nuts and wheels nuts blocking pins
- B. Traction motor fixing screws
- C. Steering cylinder fixing screws
- D. Platform and guard rails fixing screws
- E. Lifting structure fixing screws
- F. Hydraulic fittings
- G. Booms pins locking nuts and rings
- H. Parking brakes fixing screws
- I. Mobile platform mechanical end stops

For torque wrench setting refer to the table below.



7-4: Location of parts to be adjusted

TORQUE WRENCH SETTING (S.I. thread, normal pitch)						
Class	8.8 (8G)		10.9 (10K)		12.9 (12K)	
Diameter	kgm	Nm	kgm	Nm	kgm	Nm
M4	0.28	2.8	0.39	3.9	0.49	4.9
M5	0.55	5.5	0.78	7.8	0.93	9.3
M6	0.96	9.6	1.30	13.0	1.60	16.0
M8	2.30	23.0	3.30	33.0	3.90	39.0
M10	4.60	46.0	6.50	65.0	7.80	78.0
M12	8.0	80.0	11.0	110	14.0	140
M14	13.0	130	18.0	180	22.0	220
M16	19.0	190	27.0	270	33.0	330
M18	27.0	270	38.0	380	45.0	450
M20	38.0	380	53.0	530	64.0	640
M22	51.0	510	72.0	720	86.0	860
M24	65.0	650	92.0	920	110	1100

7.3.2 Greasing

Grease all articulated joints equipped with greaser (or predisposition for greaser) at least every month.

At least once a month, using a spatula or a brush, lubricate the sliding guides (Figure 7-5) of:

- A. The sliding blocks of the extensible structure on the chassis
- B. The sliding blocks of the extensible structure under the platform
- C. The counter-pressure sliding blocks of the mobile platform

At least once a month lubricate:

- D. The support pins of the steering wheels equipped with greaser

Moreover, remember to grease all the points above mentioned:

- After washing the machine.
- Before using the machine again after a long time-interval.
- After using the machine in adverse environmental conditions (high humidity levels; presence of dust; coastal areas, etc).

Before greasing, clean thoroughly using a wet cloth. Grease all points indicated in the picture aside (and all articulated joints equipped with greaser) with grease type:

ESSO BEACON-EP2, or similar.

**(OPTIONAL BIODEGRADABLE OIL KIT)
PANOLIN BIOGREASE 2**



7-5: Location of main parts to be greased

7.3.3 Hydraulic circuit oil level check and change

At least every month, check the level in the tank (Figure 7-6), through the little window of the X series or by unscrewing the cap in the XS E RESTYLING series. Make sure this is always between max and min. If necessary top up until max. level is reached. The oil check should be carried out when platform is completely lowered.

Completely change the hydraulic oil at least every two years.

To empty the tank (figura 7-7):

- Lower the platform completely.
- Stop the machine by pressing the emergency stop button on the ground control panel.
- Disconnect the tubes from the tank.
- Unscrew flange **A** unlocking the screws with a Phillips screwdriver.
- Remove the tank from its seat after removing bar **C**.
- Pour the tank content in a suitable container, through the filler cap.

Use only the types of oil and quantity indicated in the table below.

HYDRAULIC SYSTEM OIL			
BRAND	TYPE		REQUIRED QUANTITY
	-20°C	+79°C	
SYNTHETIC OILS			28 Litres X Series 20 Litres XS E RESTYLING Series
ESSO	Invarol EP46	Invarol EP22	
AGIP	Arnica 46	Arnica 22	
ELF	Hydrelf DS46	Hydrelf DS22	
SHELL	Tellus SX46	Tellus SX22	
BP	Energol SHF46	Energol SHF22	
TEXACO	Rando NDZ46	Rando NDZ22	
Q8	LI HVI 46	LI HVI 22	
PETRONAS	HIDROBAK 46 HV	HIDROBAK 22 HV	
BIODEGRADABLE OILS - OPTIONAL			
PANOLIN	HLP SINTH E46	HLP SINTH E22	

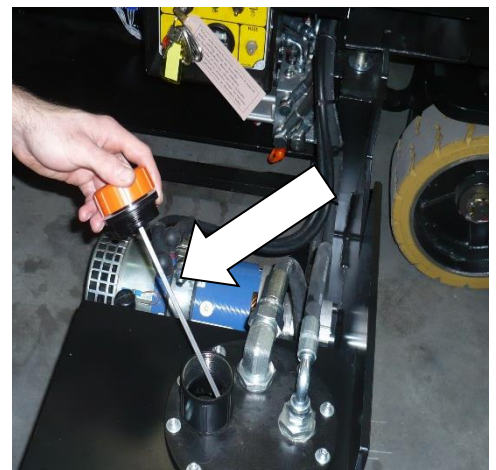


Do not dispose of used oil in the environment. Comply with the current local standards.

The lubricants, hydraulic oils, electrolytes and all detergent products should be handled with care and disposed of in safety according to the current regulations. A prolonged contact with the skin may cause irritations and dermatosis; wash with water and soap and rinse thoroughly. Contact with eyes, especially with electrolytes, is also dangerous; rinse with water thoroughly and call the doctor.



7-6: Oil check window series X



Oil level control cap series XSE RESTYLING

7.3.3.1 Biodegradable hydraulic oil (Optional)

At the request of the customer, the machines can be supplied with biodegradable hydraulic oil compatible with the environment. Biodegradable hydraulic oil is completely synthetic, without zinc, non-polluting and highly efficient with saturated ester base, combined with special additives. The machines with biodegradable oil use the same component parts as standard machines, but the use of such type of oil is best taken into account from machine construction.

In case of wanting to change from mineral-oil based hydraulic oil to “bio” oil, the following procedure must be followed.

7.3.3.2 Emptying

Empty the hot hydraulic oil for entire system operation (oil tank, cylinders, large-volume pipes).

7.3.3.3 Filters

Change the filtering inserts. Use standard filters as indicated by the manufacturer.

7.3.3.4 Washing

After completely emptying the machine, fill with a nominal quantity of “bio” hydraulic oil.

Start the machine and perform all work movements at low revs for at least 30 minutes.

Empty the liquid inside the systems as indicated at 7.2.3.1.1.

Warning: During the entire washing procedure, avoid air entering the system.

7.3.3.5 Filling

After washing, fill the hydraulic circuit, bleed and check the level.

Bear in mind that contact of fluid with the hydraulic pipes can cause swelling.

Also remember that contact of fluid with the skin can cause reddening or irritation.

Also use suitable PPE during these operations (e.g., protective eyewear and gloves).

7.3.3.6 Commissioning / check

“Bio” oil behaves regularly, but it must be checked by taking a sample at set intervals according to the indications provided below:

CHECK FREQUENCY	NORMAL DUTY	HEAVY DUTY
1 st CHECK AFTER	50 OPERATING HOURS	50 OPERATING HOURS
2 nd CHECK AFTER	500 OPERATING HOURS	250 OPERATING HOURS
3 rd CHECK AFTER	1000 OPERATING HOURS	500 OPERATING HOURS
FOLLOWING CHECKS	1000 HOURS OR 1 OPERATION YEAR	500 HOURS OR 1 OPERATION YEAR

The fluid state is therefore constantly monitored, thus allowing its use until its features decay. Normally, in the absence of contaminating agents, the oil is never completely changed, but only occasionally topped-up.

The oil samples (at least 500ml) must be taken with the system at operating temperature.

It is recommended to use new and clean containers.

The samples must be sent to the “bio” oil supplier.

For more dispatch details, contact Your nearest distributor.

Copies of the analysis report must be kept in the check register. This is mandatory.

7.3.3.7 Mix

Mixtures with other biodegradable oils are not allowed.

The remaining amount of mineral oil must not exceed 5% of total filling quantity as long as the mineral oil is suitable for the same use.

7.3.3.8 Micro-filtration

When making the conversion on second-hand machines, always take into account the high dirt dissolution power of biodegradable oil.

After conversion, the dissolution of fault-causing deposits in the hydraulic system could occur. In extreme cases, washing the seal housings can cause greater leaks.

To prevent faults as well as avoid any negative effect on oil quality, after the conversion, it is best to filter the hydraulic system using a micro-filtration system.

7.3.3.9 Disposal

The biodegradable oil, inasmuch as saturated ester, is suitable for both thermal and material re-use.

It therefore provides the same disposal / re-use options as mineral based old oil.

Such oil can be incinerated whenever local laws allow.

Recycling the oil is preferable to disposal on dumps or incineration.

7.3.3.10 Topping up

The oil must **ONLY EVER** be topped up with the same product.

Note: Max water contamination is 0.1%.



During oil change or topping up, do not discard the hydraulic oil in the environment.

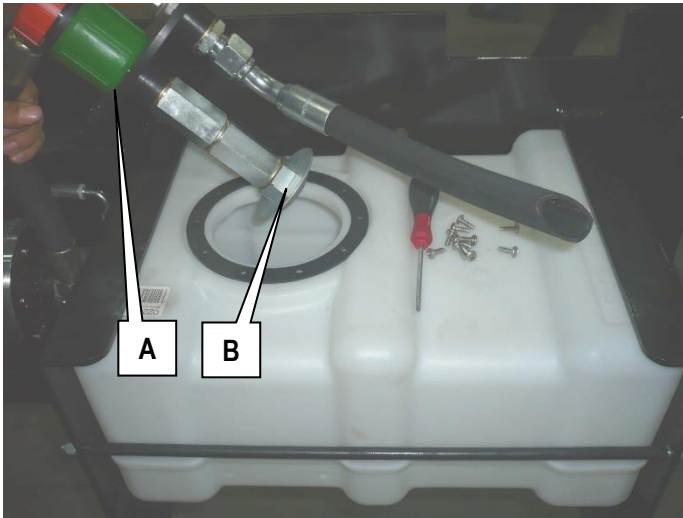
7.3.4 Hydraulic filter replacement

All models are equipped with suction filter inside the tank. It is advisable to replace it at least every two years.

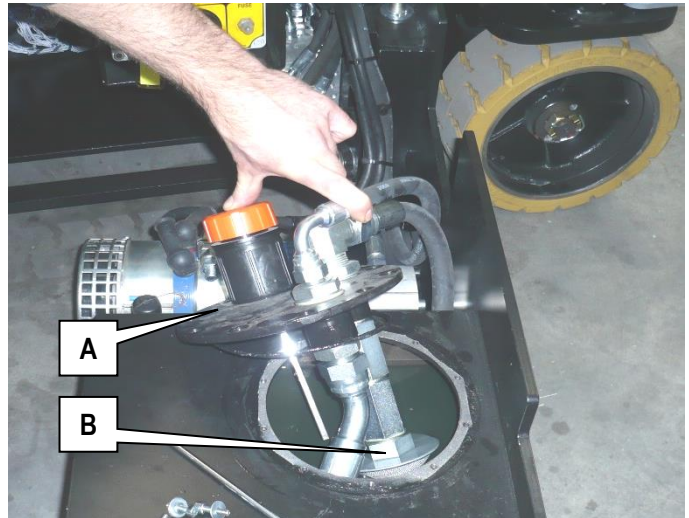
To replace the suction filter inside the tank (figura 7-7):

- Stop the machine by pressing the emergency stop button on the ground control panel.
- Disconnect the tubes from the tank.
- Unscrew flange **A** unlocking the screws with a Phillips screwdriver.
- Unscrew filter **B** from the suction tube and clean it with a detergent and a compressed air jet by blowing from the connection or replace the filtering element.

To restore the initial condition, carry out the above-mentioned operation in reverse order.



7-7: Tank X series



Tank XS E RESTYLING series



Replace the filter using only original accessories available at our Technical Support.
Do not re-use used oil and do not leave it in the environment, but dispose of in compliance with local standards in force.

Once the filter has been replaced (or cleaned), check the hydraulic oil level in the tank.

7.3.5 Pressure relief valve adjustment and operation check

The pressure relief valve controls the maximum pressure of the hydraulic circuit. Normally, this valve does not require any adjustment, since it is calibrated at the factory before the machine is delivered.

The pressure relief valve must be calibrated in the following cases:

- in case of replacement of the hydraulic block
- In case of replacement of the pressure relief valve only

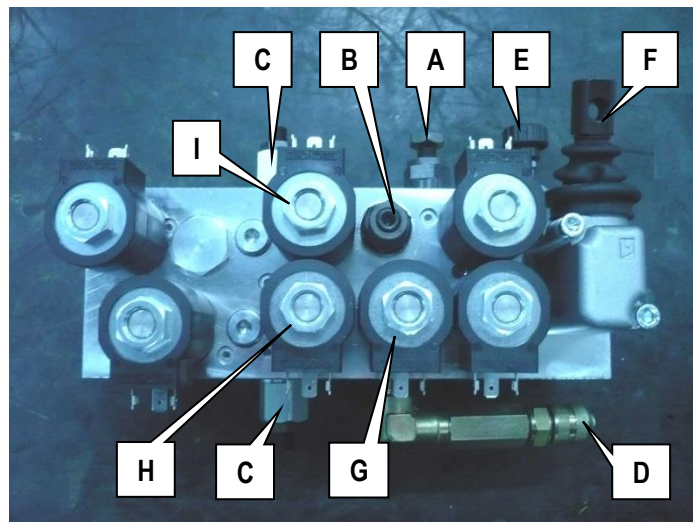
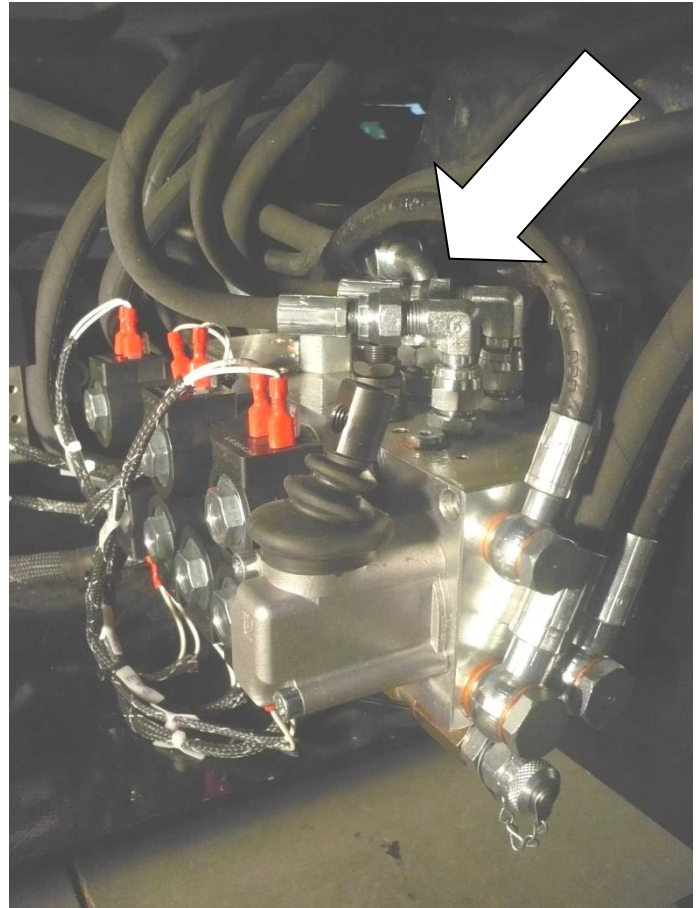
Check operation at least once a year.

To check the operation of the pressure relief valve (figura 7-8):

- Disconnect the power cords of the solenoid valves **EV2** and **EV3 (H and I)**.
- Introduce a pressure gauge with full scale of at least 250 bar in the special quick coupling (1/4" BSP) **D**.
- Using the platform control panel drive the machine forward and backward. Initially carry out the operation softly to check that the above mentioned valves have been disconnected properly (the machine should not move).
- Check the pressure value. The correct value is indicated in the chapter "**Technical features**".

To calibrate the pressure relief valve (figure 7-8):

- Disconnect the power cords of the solenoid valves **EV2** and **EV3 (H and I)**.
- Introduce a pressure gauge with full scale of at least 250 bar in the special quick coupling (1/4" BSP) **D**.
- Locate the pressure relief valve **A**.
- Unscrew the adjusting dowel lock-nut.
- Using the platform control panel, drive the machine forward and backward and adjust the pressure relief valve by means of the adjusting dowel so as to reach the pressure value indicated in chapter "**Technical Features**". Initially carry out the operation softly to check that the above mentioned valves have been disconnected properly (the machine should not move).
- Once calibration has been carried out, lock the adjusting dowel by means of the lock-nut.



7-8: Hydraulic block



WARNING!
AS THIS OPERATION IS VERY IMPORTANT IT IS TO BE CARRIED OUT BY SKILLED TECHNICIANS ONLY.

7.3.6 Lifting circuit pressure relief valve operation check

The self-propelled aerial platforms, X-XS series, have a pressure relief valve on the lifting circuit to avoid dangerous overpressure values. Normally, this valve does not require any adjustment, since it is calibrated at the factory before the machine is delivered.

The system needs calibration:

- in case of replacement of the hydraulic block
- in case of replacement of the pressure relief valve only.

To check the pressure relief valve on the lifting circuit (figure 7-8):

- Introduce a pressure gauge with full scale of at least 250 bar in the special quick coupling (1/4" BSP) **D**.
- Using the ground control panel, lift the machine up to the end stop.
- Check the pressure value. The correct value is indicated in the chapter "**Technical features**".

Check operation at least once a year.

To calibrate the pressure relief valve on the lifting circuit (figure 7-8):

- Introduce a pressure gauge with full scale of at least 250 bar in the special quick coupling (1/4" BSP) **D**.
- Locate the pressure relief valve of lifting circuit **B**.
- Unscrew the adjusting dowel lock-nut.
- Using the ground control panel lift the machine up to the end stop.
- Adjust the pressure relief valve by means of the adjusting dowel so as to reach the pressure value indicated in chapter "**Technical Features**".
- Once calibration has been carried out, lock the adjusting dowel by means of the lock-nut.



WARNING!

AS THIS OPERATION IS VERY IMPORTANT IT IS TO BE CARRIED OUT BY SKILLED TECHNICIANS ONLY.

7.3.7 Braking valves operation check

These valves check the minimum operating pressure during drive (in both running directions) and affect the dynamic braking and the drive speed. Normally, these valves do not require any adjustment, since they are calibrated at the factory before the machine is delivered.

The braking valves stop the machine when the drive controls are released. Once the machine has stopped, the parking brakes automatically come on, thus keeping the machine in position.

Check operation at least once a year.

To check the operation of the braking system:

- With platform completely lowered place the machine on a flat ground, free of obstacles, operate the drive control and when the max. speed is reached, release the control immediately.
- The correct operation of the braking system allows the machine to stop within a distance lower than 70 cm.
- In any case the braking system can stop and keep the machine on slopes as indicated in "**Technical features**" (the braking distance on descents is longer; drive downwards at the min. drive speed).

Calibration of both braking valves is required:

- In case of replacement of the hydraulic unit A.
- If one or both braking valves are to be replaced.

To calibrate the braking valves:

- Locate braking valves **C** (one for each running direction).
- Introduce a pressure gauge with full scale of at least 250 bar in the special quick coupling of hydraulic control unit (1/4" BSP) **D**.
- Using the platform control panel select the minimum drive speed.
- Unscrew the lock-nuts of the adjusting dowels.
- Using the platform control panel drive the machine (in the direction controlled by the valve) on a flat ground in straightforward direction and adjust the braking valve (relevant to that running direction) by means of adjusting dowel so as to achieve the required pressure value (call the nearest Service Centre to ask for the exact value).
- Once the required pressure value has been achieved, check that the valve controlling the braking in the opposite direction has maintained its adjustment.
- Once adjustments are complete (pressure values in the two directions must not vary by more than ± 5 bar), lock the adjusting dowel by means of the lock-nut.



WARNING!

AS THIS OPERATION IS VERY IMPORTANT IT IS TO BE CARRIED OUT BY SKILLED TECHNICIANS ONLY.

7.3.8 Inclinator operation check



WARNING!

Usually the inclinometer does need to be adjusted unless the electronic control unit is replaced. The equipment necessary for the replacement and adjustment of this component is such that these operations should be carried out by skilled personnel.

AS THIS OPERATION IS VERY IMPORTANT IT IS TO BE CARRIED OUT BY SKILLED TECHNICIANS ONLY.

The inclinometer does not require any adjustment since it is calibrated in the factory before the machine is delivered. This device controls the chassis inclination and when inclined over the allowed value:

- It disables lifting.
- It disables drive when platform exceeds a given height (varying according to model).
- It warns the user of the instability condition by means of the audible alarm and platform warning light (see chapter 5).

The inclinometer checks the inclination with respect to the two axes (X; Y). On machine models that have the same transversal and longitudinal inclination limits, the control is carried out with reference to one axis only (X-axis).

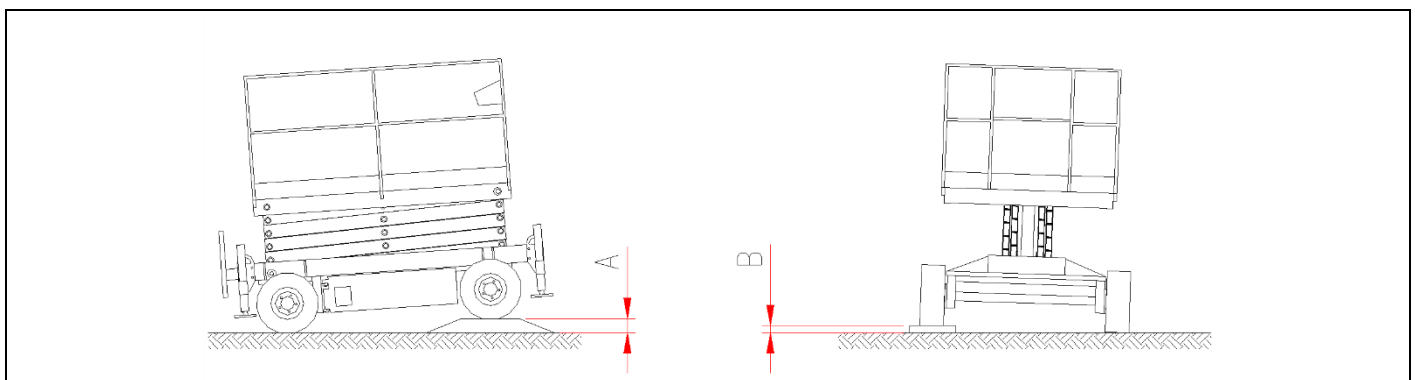
To check the inclinometer operation according to the **longitudinal axis** (generally **X-axis**):

- Using the controls of the control panel set the machine so as to place a shim of dimension (A+10 mm) under the two rear or front wheels (see following table).
- Wait three seconds (operation delay set at factory) until the danger red light and the platform audible alarm turn on (this one only if the platform is lifted).
- If the alarm does not go off CALL THE TECHNICAL ASSISTANCE.

To check the inclinometer according to the **transversal axis** (normally **Y-Axis**):

- Using the controls of the control panel set the machine so as to place a shim of dimension (B+10 mm) under the two side right or left wheels (see following table).
- Wait three seconds (operation delay set at factory) until the danger red light and the platform audible alarm turn on (this one only if the platform is lifted).
- If the alarm does not go off CALL THE TECHNICAL ASSISTANCE.

Check operation at least once a year.



SHIMS	X8 EW WIND	X8 EN	X10 EW	X10 EW WIND	X10 EN	X12 EW	X10 EW WIND	X12 EN	X14 EW	X14 EN	X16 EW
A [mm]	129	97	97	97	97	97	97	97	97	97	49
B [mm]	37	26	37	37	26	37	28	16	28	13	19

MODELS – SERIES XS RESTYLING				
SHIMS	XS7 E RESTYLING	XS8 E RESTYLING LIGHT	XS8 E RESTYLING	XS9 E RESTYLING
A [mm]	46	46	46	46
B [mm]	23	15	23	12



WARNING! The dimensions of shims A and B refer to max. allowed inclination as indicated in table “TECHNICAL FEATURES”. To be used during the inclinometer calibration.

7.3.9 Platform overload controller operation check and adjustment

The AIRO self-propelled aerial platforms, X series, are equipped with a sophisticated platform overload controller.

Normally the overload controller does not require any adjustments, since it is calibrated in the factory before the machine is delivered. This device checks the load on the platform and:

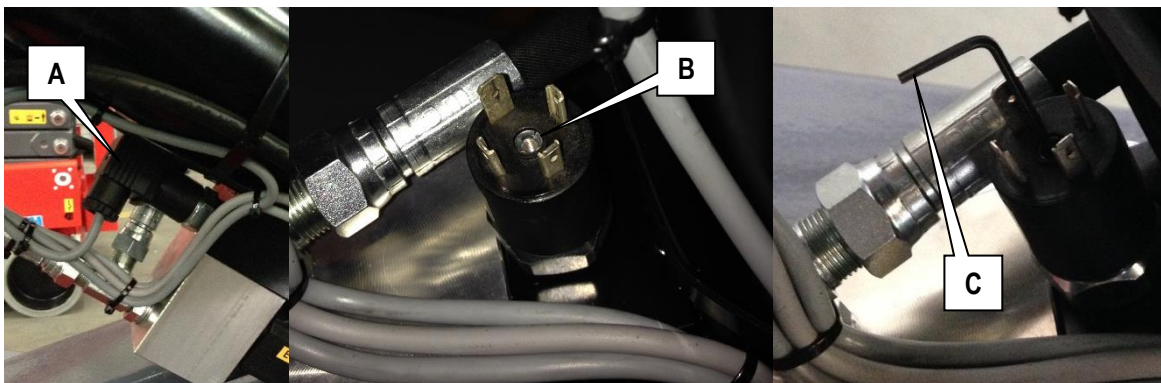
- It disables all movements if the platform is lifted and overloaded by -30% approx. compared to the nominal load.
- With platform in transport position and overloaded by -30% compared to the nominal load, it disables lifting only.
- it warns the user of the overload condition by means of the platform audible alarm and warning light.
- by removing the exceeding load, the machine can be operated again.

7.3.9.1 Control system of the standard load (pressure switch).

The system for the overload control standard is constituted by a pressure switch which is connected to the lower cylinder lift.

Operation check of the overload controller:

- When platform is completely lowered and with extension deck retracted, load a charge evenly distributed equal to the max. nominal load allowed by the platform (paragraph “Technical features”). In this condition all operations should be possible both from platform and ground control panel.
- With platform completely lowered, add to the nominal load an overload of 35% of the nominal load and carry out the lifting operation. In this condition the platform rises up to the point of maximum effort (a few tens of centimeters) and illuminate the red alarm indicator and horn. the alarm condition stops the machine completely. To operate the machine again, remove the overload.



7-9: Load control of standard type

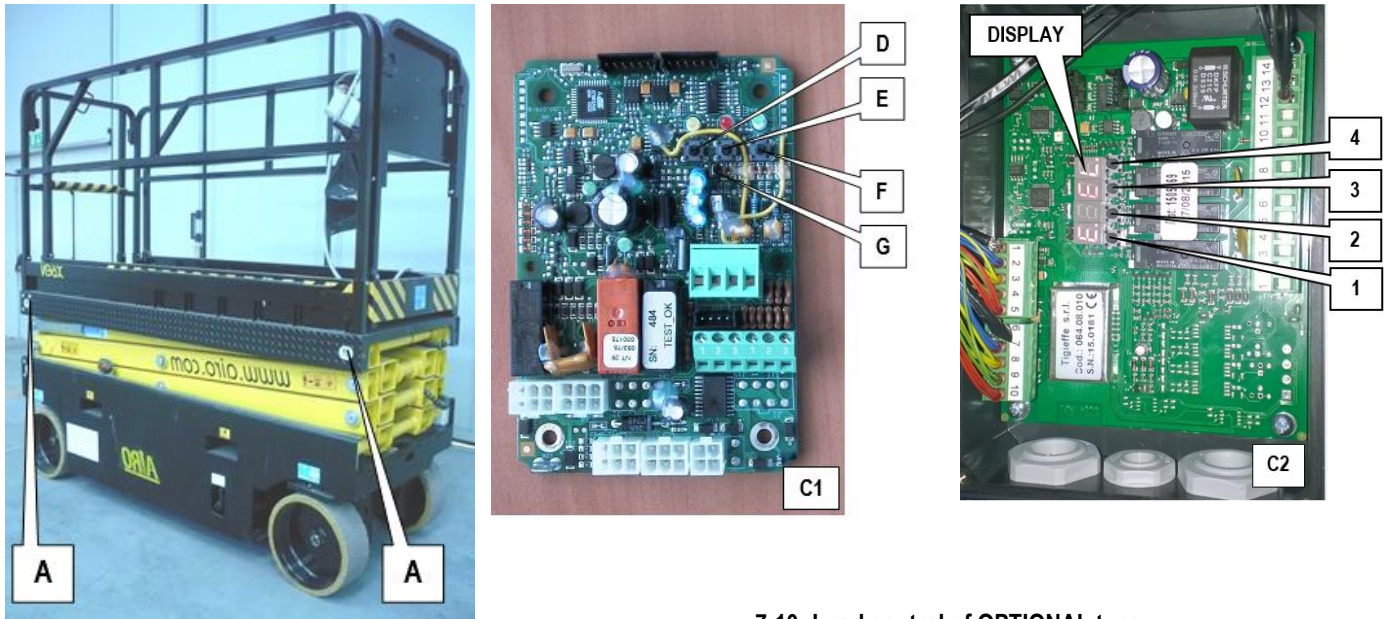
To calibrate the device:

- Lower the platform completely.
- Place a load at the centre of the platform equal to the nominal load + 30%.
- Raise the platform to access the pressure switch.
- Immobilise the lifting structure by means of the appropriate safety rods.
- Remove the connector (A) using a slotted screwdriver.
- Carry out the calibration by acting on the adjustment screw inside (B) using an Allen key of 2 mm (C) by screwing or unscrewing to obtain the intervention of the pressure switch in the point of maximum effort during the lift control (a few tens of centimeters from the position of access).
- Reconnect the connector and screw.

7.3.9.2 Load control system OPTIONAL (load cells).

The overload controller consists of:

- Deformation transducers (A) (4 load cells integrated in the support pins of the platform).
- Electronic board (C1 or C2) for the device calibration located inside the box on the platform.



7-10: Load control of OPTIONAL type

Operation check of the overload controller:

- When platform is completely lowered and with extension deck retracted, load a charge evenly distributed equal to the max. nominal load allowed by the platform (paragraph “Technical features”). In this condition all operations should be possible both from platform and ground control panel.
- With platform completely lowered, add to the nominal load an overload of 20% of the nominal load and carry out the lifting operation. In this condition the red alarm light and the audible alarm turn on.

If the platform is at a height from the ground higher than that indicated in chapter “**Technical features**”, the alarm condition locks the machine completely. To operate the machine again, remove the excessive load.

Check operation at least once a year.

The system needs calibration:

- In case of replacement of one of the items composing the system.
- When, following an excessive overload, even after removing the excessive load, the danger condition is reported anyway.

To calibrate the device (TYPE “C1”):

- Turn off the machine.
- Open the box which contains electronic board **C1**.
- With no load on the platform, introduce the jumper to connector **G**.
- Turn on the machine.
- Turn on the machine press button **D** (the yellow and red light turn on).
- Press button **E** (the luminosity of the red light increases a few seconds), and the overload controller will be reset.
- Place a load at the centre of the platform equal to the nominal load + 20%.
- Press button **F** (the green light turns on a few seconds).
- Press button **D** again to exit the calibration procedure (the yellow light turns off and if the procedure has been carried out correctly, the red light stays on signalling the overload).
- Turn off the machine.
- Open the jumper on connector **G**.

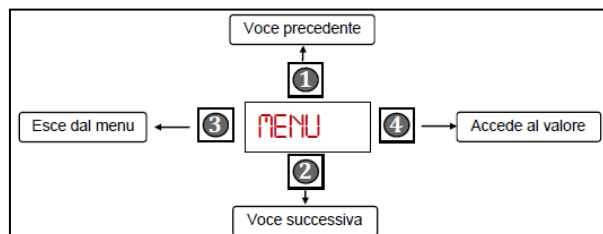
- Turn on the machine.
- Check that after removing the 20% overload (only the nominal load stays on the platform) the alarm condition does not occur in any of the platform positions (platform lowered, lifted, during drive, with platform extended).
- Once the adjustment has been completed, close the box which contains the board.

To calibrate the device (TYPE “C2”):

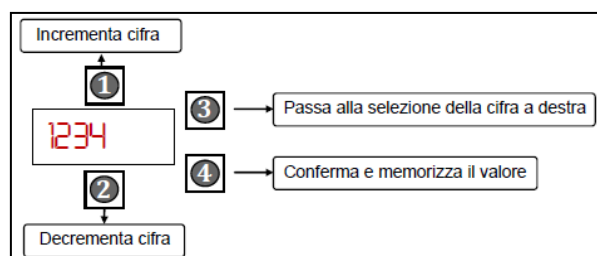
- Turn off the machine.
- Open the box which contains electronic board **C2**.
- turn on the machine; the red led and the DISPLAY turn on.
- **BOARD SETTING**: hold down button **4** and **1** for more than 3 seconds until **CONS** appears on the display. Press button **4** to get **CAP**. Press again button **4**: a 4-digit number will appear on the display and the first digit will be flashing. Through button **1-2-3** it is now possible to insert the correct parameter according to the machine (SERIE X = **6000** – SERIE XS = **2800**). Press button **4** to memorize and exit.
- **SETTING OF THE DIVISION SCALE**: press button **2** (**SENS** will appear); press again button **2** (**J01J** will appear); press button **4** to visualize the value of the division scale on the display. Through button **1-2-3** insert the correct value (_ _ _ 1) and press button **4** to memorize and exit.
- **RESET OF THE SYSTEM**: press button **3** (**CONS** will appear); press button **2** (**CALB** will appear); press button **4** to get **CAL** on the display. After controlling that no loads are on the platform press button **1**. The value of the load on the platform, **0000**, will appear on the display.
- **NOMINAL LOAD CALIBRATION**: position a load that is equal to the nominal load in the centre of the platform (see chap. “TECHNICAL FEATURES”). The value of the load must be visualized by the display (for example: if the load on the platform is 400 kg, the display must visualize 0400). If that takes place, press button **4** to memorize and exit. Otherwise, press button **2** and through button **1-2-3** set the correct value of the load and press button **4** to memorize and exit.
- **SETTING OF THE ALARM LOAD**: press button **3** (**CALB** will appear); press button **2** (**PARM** will appear); press button **2** (**ALAR** will appear); press button **4** (**PREA** will appear); press button **2** to get **BLOC** on the display. Press **4** and through button **1-2-3** set the correct value of the load that must be equal to the **NOMINAL LOAD + 20%** (for example: if the nominal load is 400 kg, the alarm load is 480 kg. So the number to be set is 0480). Press button **4** to memorize and exit.
- **SETTING OF THE SENSITIVITY OF THE SYSTEM**: press button **2** to get **DIFF**. Press button **4** and through button **1-2-3** set the 0030 and press button **4** to memorize and exit.
- **FINAL TEST**: press button **2** to get **TEST** on the display. Press button **4** to test the system, **PASS** refers to the correct execution of the procedure; **FAIL** refers to a wrong execution of the procedure, which has to be repeated.
- **EXIT**: press button **3** (**ALAR** will appear); press button **3** to exit. Now the display visualizes the load on the platform.

Information about the functions of the buttons for the load control system, type “C2”:

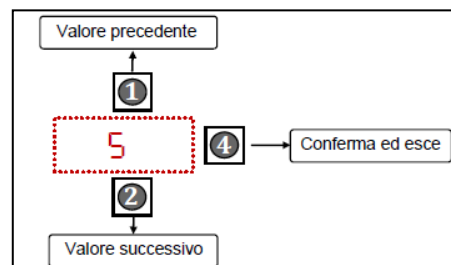
To navigate in the menu, the buttons have the following functions:



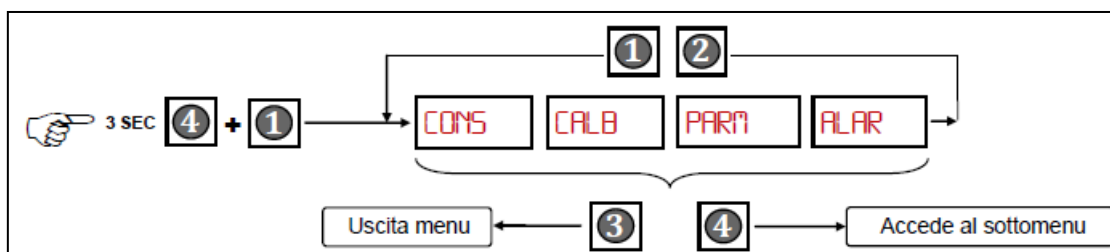
To set a numerical value:



To select a predetermined value:



Access the setup menu:

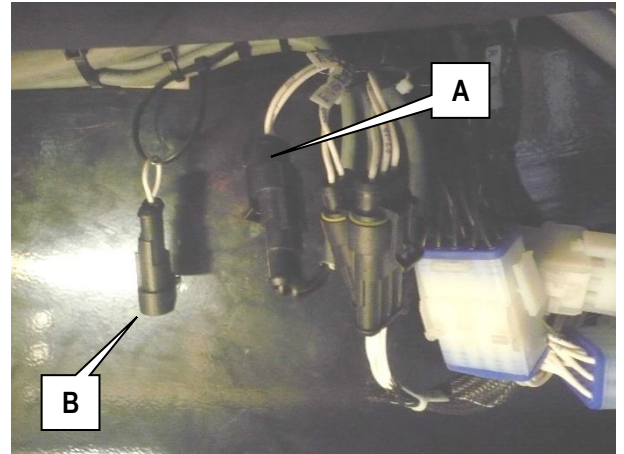


AS THIS OPERATION IS VERY IMPORTANT IT IS TO BE CARRIED OUT BY SPECIALIZED TECHNICIANS ONLY.

7.3.10 Overload controller by-pass

In case of fault and impossibility to calibrate the device, a by-pass of the system is possible in the following way (**FIGURE 7-11**):

- Locate connector **A** inside the control unit box.
- Detach the connection by removing the lead seal.
- Locate connector **B** (by-pass), usually fixed to connector **A** by means of clamp.
- Introduce connector **B** instead of connector **A**.
- Once this operation has been completed, the machine is without overload controller.



7-11: Overload controller by-pass



WARNING!
THIS OPERATION IS ALLOWED ONLY FOR EMERGENCY HANDLING OF THE MACHINE OR IN THE EVENT OF A FAULT OR IMPOSSIBILITY TO CALIBRATE THE SYSTEM.
DO NOT USE THE MACHINE IF THE OVERLOAD CONTROLLER IS NOT EFFICIENT.



WARNING!
ONCE THE EMERGENCY IS OVER, RESET THE CORRECT CONNECTION OF THE CONNECTOR "A" AND FIT THE LEAD SEAL BACK ON. BECAUSE OF ITS IMPORTANCE, THE OPERATION MUST ONLY BE PERFORMED BY SKILLED TECHNICAL PERSONNEL.

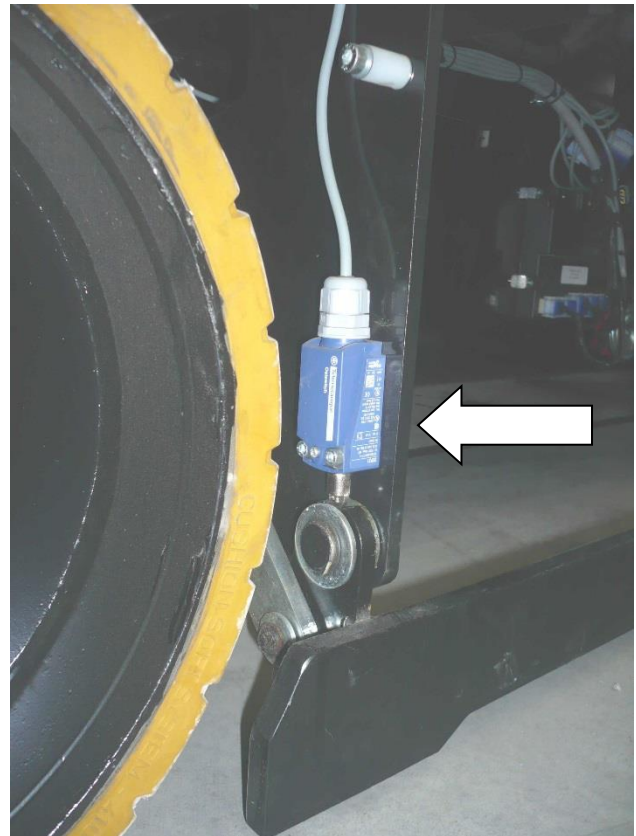
7.3.11 Safety microswitches operation check

All microswitches are to be found on the chassis and platform and can be identified by means of labels.

Microswitch functions:

MPT1 and **MPT2** (figure 7-12):

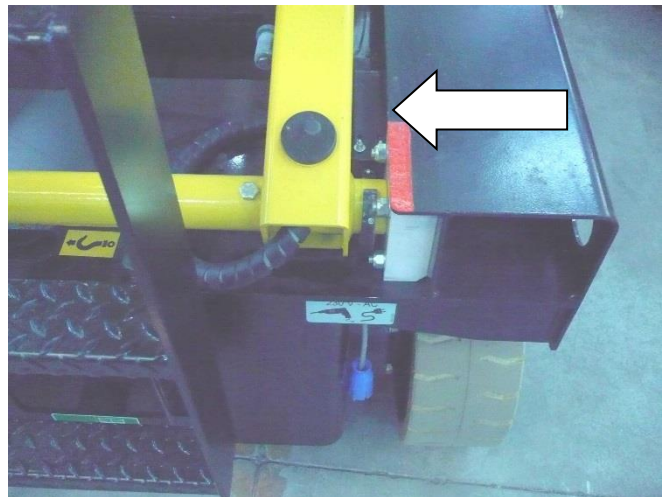
- Control the position of the two pot-hole guards. With one or both microswitches open (guards lifted or not completely lowered) drive is disabled if platform is lifted at a height from the ground indicated in chapter “**Technical Features**” (**M1** activated). Their function is excluded if platform is lowered (**M1** free).



7-12: MPT1 microswitch

M1 (figure 7-9):

- Activates drive safety speed with platform at height from the ground indicated in chapter “**Technical features**”.
- Stops lowering automatically in a position where the vertical distance between the scissor ends is over 50 mm. In this condition the movement alarm warns about the danger condition by increasing its frequency. The operator on the platform must release the lowering control and wait until the audible alarm stops (about 3 sec.), then he can resume the lowering control.



7-9: M1 microswitch

Check operation at least once a year.

7.3.12 Dead-man switch operation check

To check the dead-man switch operation:

- Set “drive” mode with selector L (figure 5-1).
- Move the joystick control forward and backward in sequence, WITHOUT PRESSING THE DEAD-MAN SWITCH.
- Check that the machine does not perform any movement.

- Set “drive” mode with selector L (figure 5-1).
- Hold down the dead-man switch for more than 10 seconds.
- With the switch pressed, move the joystick forward and backward in sequence.
- Check that the machine does not perform any movement.

If the device works properly, no machine operation is possible from the platform control panel unless you press the dead-man switch beforehand. If this is pressed for more than 10 seconds and no operation is performed, all movements are disabled; to operate the machine again, release the dead-man switch and press it again.

The condition of the switch is indicated by the green led H (figura 5-1):

- green led lit up steady control panel enabled
- green led lit up flashing control panel disabled

Check operation at least once a year.



WARNING!
IN CASE OF NO OPERATION, CONTACT THE AFTER-SALES SERVICE

7.4 Battery

The battery is one of the most important elements of the machine. It is recommended to keep it in an efficient condition to increase its useful life, to avoid faults and to reduce the management costs of the machine.

7.4.1 General warning instructions

- In case of new batteries do not wait for the flat battery warning before recharging; recharge batteries after 3 or 4 working hours for the first 4/5 times.
- In case of new batteries full performance is achieved after approx. ten cycles of discharge and charge.
- Charge the battery in airy rooms and open the caps to allow the outflow of gas.
- Do not use extension leads exceeding 5 metres to connect the battery charger to the mains.
- Use a cable of suitable section (min 3x2.5 mm²).
- Do not use rolled-up cables.
- Do not approach the battery with flames. Risk of deflagration due to the formation of explosive gases.
- Do not carry out temporary or irregular electric connections.
- The terminals must be tightened and without deposits. The cables must be provided with a good insulation.
- Keep the battery cleaned, dry and free of oxidation products by using antistatic cloths.
- Do not place tools or any other metal object on the battery.
- Check that the electrolyte level is 5-7 mm higher than the splash guard level.
- During charging operations check that the electrolyte temperature is not higher than 45°C max.
- If the machine is equipped with an automatic topping up device, follow the instructions described in the battery user manual carefully.

7.4.2 Battery maintenance

- For normal uses, water topping up is to be carried out every week.
- Top up using distilled or demineralized water.
- Top up after battery charging. After this operation, the electrolyte level must be 5-7 mm higher than the splash guard level.
- For machines equipped with automatic topping up device, follow the instructions given in the battery user manual.
- Battery discharge must be stopped when 80% of the battery rated capacity has been used. An excessive and prolonged discharge irreversibly damages the battery.
- Battery charge is to be carried out according to the instructions given in the next paragraphs.
- Keep caps and connections covered and dry. A careful cleaning allows electric insulation protection, good operation and useful life of the battery.
- In case of faulty operations due to the battery, avoid any direct intervention and call the Customer Service.
- When the machine is not being used the batteries will run down automatically (automatic discharge). To avoid the battery operation from being compromised, charge it at least once a month. This has to be done even if the density values of the electrolyte are high.
- To limit automatic battery discharge during periods of inactivity store the machine in environments with temperatures lower than 30°C and remove the main power connector.

7.4.3 Battery recharge



WARNING!

EXPLOSIVE gas is originated during battery charging process. Therefore, charging must take place in airy rooms where no risks of fire and explosion exist and in the presence of fire extinguishers.

Connect the battery charger to the power mains having all protections according to the current standards in force and with the following features:

- Power voltage 230V \pm 10%.
- Frequency 50-60 Hz.
- Activated grounding line.
- Magneto-thermic switch and residual current device ("circuit breaker").

Moreover:

- Do not use extension leads exceeding 5 metres to connect the battery charger to the mains.
- Use a cable of suitable section (min 3x2.5 mm²).
- Do not use rolled-up cables.



IT IS FORBIDDEN

**Connection to mains that do not comply with the above mentioned features.
Failure to comply with the a.m. instructions may cause incorrect functioning of the battery charger with consequent damages not covered by the warranty.**

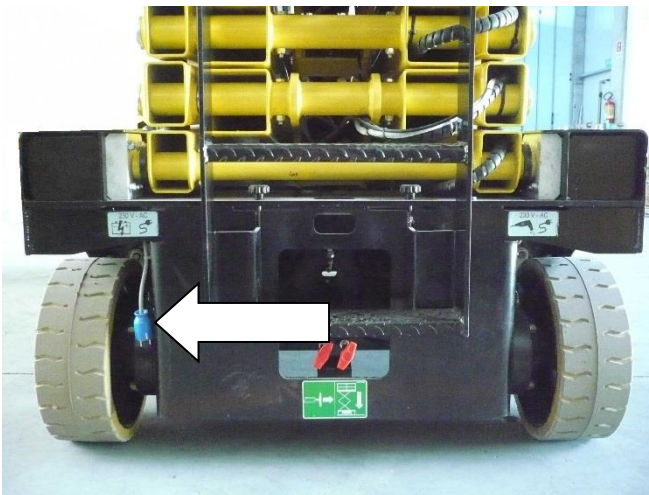


WARNING!

After charging, when the battery charger is still connected, the electrolyte density values should range from 1.260 g/l to 1.270 g/l (at 25°C).

To use the battery charger, follow these procedures:

- Connect the battery charger by means of plug **A** to a current socket with the a.m. features.
- Check the connection state of the battery charger through led **B**. If it is on, connection has taken place and charging has started. The colour and enable mode of the leds indicate the charging phase (refer to table below).



7-14: Battery charger plug



7-1510: Battery charger light

WARNING	DESCRIPTION
Red led flashing for a few seconds	Battery charger self-diagnostic phase
Red led on	Indicates the first and second charging phase
Yellow led on	Indicates the equalization of the charging phase
Green led on	Indicates that charging is over; buffer charge active



With the battery charger ON, the machine is automatically off.

To disconnect the battery charger from the power source, disconnect the machine from the electric line.



WARNING!

Before using the machine check that the power cord of the battery charger is disconnected.

7.4.4 Battery charger: fault report

The flashing LED on the battery charger indicator described in the previous paragraph indicates that an alarm situation has occurred:

WARNING	PROBLEM	SOLUTION
Red led constantly flashing	No connection with the battery	Check the connections with the battery
	Connections with the battery inverted	
Red and yellow led blinking	Connection problems	Check all connections
		Check that battery was not disconnected during charging phase
	Battery problems	Check the battery Check the fluid level (for pb-acid batteries only)

7.4.5 Battery replacement



Replace the old batteries only with models of the same voltage, capacity, dimensions and mass. Batteries must be approved by the manufacturer.



Do not dispose of batteries in the environment after replacement. Comply with the current local standards.



AS THIS OPERATION IS VERY IMPORTANT IT IS TO BE CARRIED OUT BY SKILLED TECHNICIANS ONLY.

CALL THE TECHNICAL SUPPORT

8. MARKS AND CERTIFICATIONS

The models of self-propelled aerial platform described in this manual were subject to the CE type test according to the Directive 2006/42/EC. The certification was issued by:



Test carrying out is shown by the above plate with CE mark applied on the machine and by the declaration of conformity enclosed in this user manual.

9. PLATES AND STICKERS

STANDARD STICKER CODE "X" SERIES

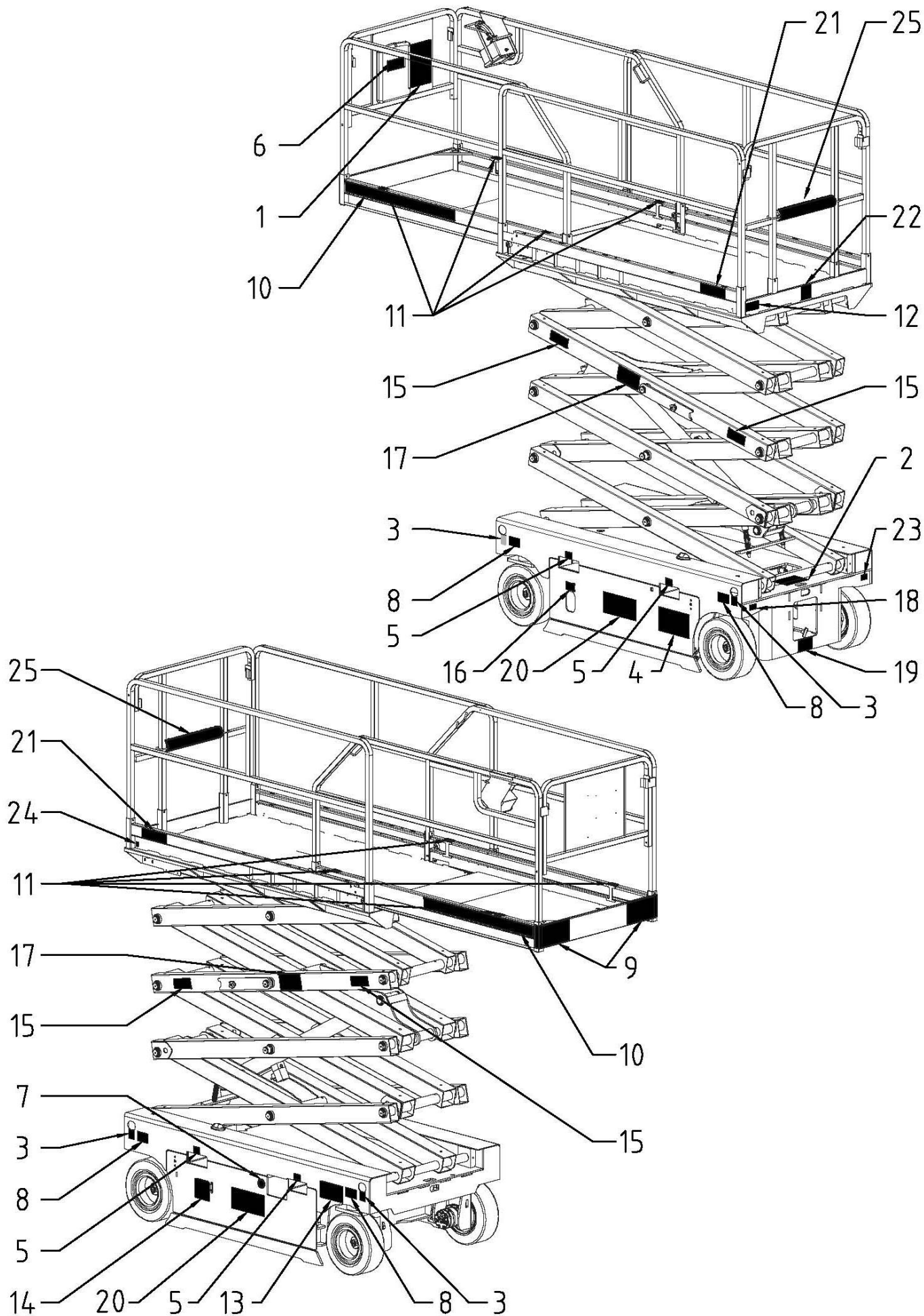
	CODE	DESCRIPTION	QUANTITY
1	001.10.001	AIRO warnings plate	1
2	001.10.024	AIRO serial number plate	1
3	001.10.031	Towing hook sticker	4
4	001.10.057	General warnings sticker	1
5	001.10.060	Lifting point sticker	4
6	001.10.088	Document holder sticker	1
7	001.10.180	First check sticker	1
8	001.10.243	"Max. Load per wheel" sticker	4
9	010.10.010	YELLOW-BLACK LINE STICKER <150x300>	2
10	012.10.007	Sliding platform black-yellow line sticker	2
11	035.10.007	Safety belts coupling sticker	4
12	037.10.007	Machine for indoors universal sticker	1
13	045.10.001	Emergency towing sticker	1
14	045.10.002	Oil level and type sticker	1
15	045.10.003	Hands danger + no stopping sticker	4
16	045.10.005	Battery isolator sticker	1
17	045.10.006	Safety bar sticker	1
18	045.10.011	Battery charger plug sticker	1
19	045.10.013	Symbols manual lowering sticker	1
20	001.10.173	AIRO yellow sticker	2
21	046.10.002	Capacity sticker X8EN X10EN X14EW	1
	047.10.002	Capacity sticker X10EW	1
	047.10.004	Capacity sticker X10EW-WIND	1
	049.10.002	Capacity sticker X12EW	1
	049.10.005	Capacity sticker X12EW-WIND	1
	050.10.004	Capacity sticker X12EN	1
	051.10.010	Capacity sticker X14EN	1
	052.10.001	Capacity sticker X16EW	1
22	048.10.001	Code sticker X8EN	2
	049.10.001	Code sticker X10EW	2
	050.10.001	Code sticker X10EN	2
	051.10.001	Code sticker X12EW	2
	050.10.007	Code sticker X12EN	2
	051.10.005	Code sticker X14EW	2
	051.10.011	Code sticker X14EN	2
	052.10.002	Code sticker X16EW	2
23*	045.10.011	(Optional) electric line plug sticker	1
24*	001.10.021	(Optional) ground symbol sticker	1
25*	001.10.244	(Optional) entrance bar black-yellow line sticker	1

* optional features

STANDARD STICKER CODE “XS E RESTYLING” SERIES

	CODE	DESCRIPTION	QUANTITY
1	001.10.001	AIRO warnings plate	1
2	001.10.024	AIRO serial number plate	1
3	001.10.031	Towing hook sticker	4
4	001.10.057	General warnings sticker	1
5	001.10.060	Lifting point sticker	4
6	001.10.088	Document holder sticker	1
7	001.10.180	First check sticker	1
8	001.10.243	“Max. Load per wheel” sticker	4
9	010.10.010	YELLOW-BLACK LINE STICKER <150x300>	2
10	012.10.007	Sliding platform black-yellow line sticker	2
11	035.10.007	Safety belts coupling sticker	4
12	037.10.007	Machine for indoors universal sticker	1
13	045.10.001	Emergency towing sticker	1
14	001.10.150	Oil type sticker	1
15	045.10.003	Hands danger + no stopping sticker	4
16	045.10.005	Battery isolator sticker	1
17	064.10.001	Safety bar sticker	1
18	045.10.011	Battery charger plug sticker	1
19	045.10.013	Symbols manual lowering sticker	1
20	001.10.173	AIRO yellow sticker	2
21	001.10.194	Capacity sticker 250 Kg (x XSE 7 and XSE 8)	1
	008.10.003	Capacity sticker 200 Kg (x XSE 9)	1
22	037.10.016	Pre-spaced sticker XS7 E yellow	2
	038.10.008	Pre-spaced sticker XS8 E yellow	2
	039.10.009	Pre-spaced sticker XS9 E yellow	2
23*	045.10.011	(Optional) electric line plug sticker	1
24*	001.10.021	(Optional) ground symbol sticker	1
25*	001.10.244	(Optional) entrance bar black-yellow line sticker	1

* optional features



10. CHECK REGISTER

The check register is released to the user of the platform in conformance with annex 1 of Directive 2006/42/EC. This register is to be considered an integral part of the equipment and must accompany the machine for its entire life until its final disposal.

The register is provided for the notation, according to the proposed format, of the following events that regard the life of the machine:

- Periodic obligatory inspections under the care of the agency responsible for checking it (in Italy, ASL or ARPA).
- Obligatory periodic inspections to verify the structure, proper machine functioning and the protection and safety systems. Such inspections are the responsibility of the safety manager of the company that owns the machine and must occur with **frequency indicated**.
- Transfers of ownership. In Italy, the purchaser must notify the INAIL department responsible that the installation of the machine has occurred.
- Extraordinary maintenance work and replacement of important elements of the machine.

REQUIRED PERIODIC INSPECTIONS BY THE OWNER

STRUCTURAL CHECK		DESCRIPTION OF OPERATIONS TO BE PERFORMED	
VISUAL CHECK		Check the integrity of the guardrails; the harness anchoring points; state of the lifting structure; any access ladders; rust; state of the tyres; oil leaks; locking pins on the structure.	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			
DEFORMATION OF TUBES AND CABLES		Most of all, check at junction points that tubes and cables do not show any evident defects. Monthly operation. It is not necessary to indicate its execution every month, but at least every year when the other operations are carried out.	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

REQUIRED PERIODIC INSPECTIONS BY THE OWNER

STRUCTURAL CHECK		DESCRIPTION OF OPERATIONS TO BE PERFORMED	
VARIOUS ADJUSTMENTS		See chapter 7.3.1	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			
GREASING		See chapter 7.3.2 Monthly operation. It is not necessary to indicate its execution every month, but at least every year when the other operations are carried out.	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

REQUIRED PERIODIC INSPECTIONS BY THE OWNER

CHECK		DESCRIPTION OF OPERATIONS TO BE PERFORMED	
HYDRAULIC TANK OIL LEVEL CHECK		See chapter 7.3.3 Monthly operation. It is not necessary to indicate its execution every month, but at least every year when the other operations are carried out.	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			
CALIBRATION CHECK OF LIFTING CIRCUIT PRESSURE RELIEF VALVE		See chapter 7.3.6	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

REQUIRED PERIODIC INSPECTIONS BY THE OWNER

CHECK	DESCRIPTION OF OPERATIONS TO BE PERFORMED		
CALIBRATION CHECK OF PRESSURE RELIEF VALVE	See chapter 7.3.5		
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

CHECK	DESCRIPTION OF OPERATIONS TO BE PERFORMED		
BATTERY STATE	See chapter 7.4 Daily operation. It is not necessary to indicate its execution every day, but at least every year when the other operations are carried out.		
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

REQUIRED PERIODIC INSPECTIONS BY THE OWNER

CHECK	DESCRIPTION OF OPERATIONS TO BE PERFORMED		
TOTAL OIL REPLACEMENT IN HYDRAULIC TANK (EVERY TWO YEARS)	See chapter 7.3.3		
	DATE	REMARKS	SIGNATURE + STAMP
2nd YEAR			
4th YEAR			
6th YEAR			
8th YEAR			
10th YEAR			
HYDRAULIC FILTER REPLACING (EVERY TWO YEARS)	See chapter 7.3.4		
	DATE	REMARKS	SIGNATURE + STAMP
2nd YEAR			
4th YEAR			
6th YEAR			
8th YEAR			
10th YEAR			

REQUIRED PERIODIC INSPECTIONS BY THE OWNER

SAFETY SYSTEM CHECK		DESCRIPTION OF OPERATIONS TO BE PERFORMED	
INCLINOMETER OPERATION CHECK		See chapter 7.3.8	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

EFFICIENCY CHECK OF PLATFORM OVERLOAD CONTROLLER		See chapter 7.3.9	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

REQUIRED PERIODIC INSPECTIONS BY THE OWNER

SAFETY SYSTEM CHECK		DESCRIPTION OF OPERATIONS TO BE PERFORMED	
BRAKING SYSTEM EFFICIENCY CHECK		See chapter 7.3.7	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			
OPERATION CHECK MICROSWITCHES: M1, MPT1, MPT2		See chapter 7.3.11	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

REQUIRED PERIODIC INSPECTIONS BY THE OWNER

SAFETY SYSTEM CHECK		DESCRIPTION OF OPERATIONS TO BE PERFORMED	
STICKERS AND PLATES CHECK		See Chapter 9. Check the legibility of the aluminium plate on the platform where the main instructions are summarised; that the capacity stickers are on the platform and that they are legible; that the stickers on the ground and platform controls are legible.	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

CHECK OF EMERGENCY DEVICES		DESCRIPTION OF OPERATIONS TO BE PERFORMED	
MANUAL EMERGENCY LOWERING CHECK		See chapter 5.6	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

REQUIRED PERIODIC INSPECTIONS BY THE OWNER

SAFETY SYSTEM CHECK		DESCRIPTION OF OPERATIONS TO BE PERFORMED	
DEAD-MAN SYSTEM CHECK		See chapter 7.3.12	
	DATE	REMARKS	SIGNATURE + STAMP
1st YEAR			
2nd YEAR			
3rd YEAR			
4th YEAR			
5th YEAR			
6th YEAR			
7th YEAR			
8th YEAR			
9th YEAR			
10th YEAR			

TRANSFERS OF OWNERSHIP

FIRST OWNER

COMPANY	DATE	MODEL	SERIAL NUMBER	DELIVERY DATE

AIRO / Tigieffe S.r.l.

SUBSEQUENT TRANSFERS OF OWNERSHIP

COMPANY	DATE

We affirm that, as of the date quoted above, the technical, dimensional and functional features of this machine were in conformance with what was originally required and that any changes have been recorded in this Register.

THE SELLER

THE PURCHASER

SUBSEQUENT TRANSFERS OF OWNERSHIP

COMPANY	DATE

We affirm that, as of the date quoted above, the technical, dimensional and functional features of this machine were in conformance with what was originally required and that any changes have been recorded in this Register.

THE SELLER

THE PURCHASER

SUBSEQUENT TRANSFERS OF OWNERSHIP

COMPANY	DATE

We affirm that, as of the date quoted above, the technical, dimensional and functional features of this machine were in conformance with what was originally required and that any changes have been recorded in this Register.

THE SELLER

THE PURCHASER

SUBSEQUENT TRANSFERS OF OWNERSHIP

COMPANY	DATE

We affirm that, as of the date quoted above, the technical, dimensional and functional features of this machine were in conformance with what was originally required and that any changes have been recorded in this Register.

THE SELLER

THE PURCHASER

SUBSEQUENT TRANSFERS OF OWNERSHIP

COMPANY	DATE

We affirm that, as of the date quoted above, the technical, dimensional and functional features of this machine were in conformance with what was originally required and that any changes have been recorded in this Register.

THE SELLER

THE PURCHASER

IMPORTANT BREAKDOWNS

DATE	DESCRIPTION OF BREAKDOWN	SOLUTION

SPARE PARTS USED		DESCRIPTION
CODE	QUANTITY	

SERVICE

SAFETY MANAGER

DATE	DESCRIPTION OF BREAKDOWN	SOLUTION

SPARE PARTS USED		DESCRIPTION
CODE	QUANTITY	

SERVICE

SAFETY MANAGER

IMPORTANT BREAKDOWNS

DATE	DESCRIPTION OF BREAKDOWN	SOLUTION

SPARE PARTS USED		DESCRIPTION
CODE	QUANTITY	

SERVICE

SAFETY MANAGER

DATE	DESCRIPTION OF BREAKDOWN	SOLUTION

SPARE PARTS USED		DESCRIPTION
CODE	QUANTITY	

SERVICE

SAFETY MANAGER

IMPORTANT BREAKDOWNS

DATE	DESCRIPTION OF BREAKDOWN	SOLUTION

SPARE PARTS USED		DESCRIPTION
CODE	QUANTITY	

SERVICE

SAFETY MANAGER

DATE	DESCRIPTION OF BREAKDOWN	SOLUTION

SPARE PARTS USED		DESCRIPTION
CODE	QUANTITY	

SERVICE

SAFETY MANAGER

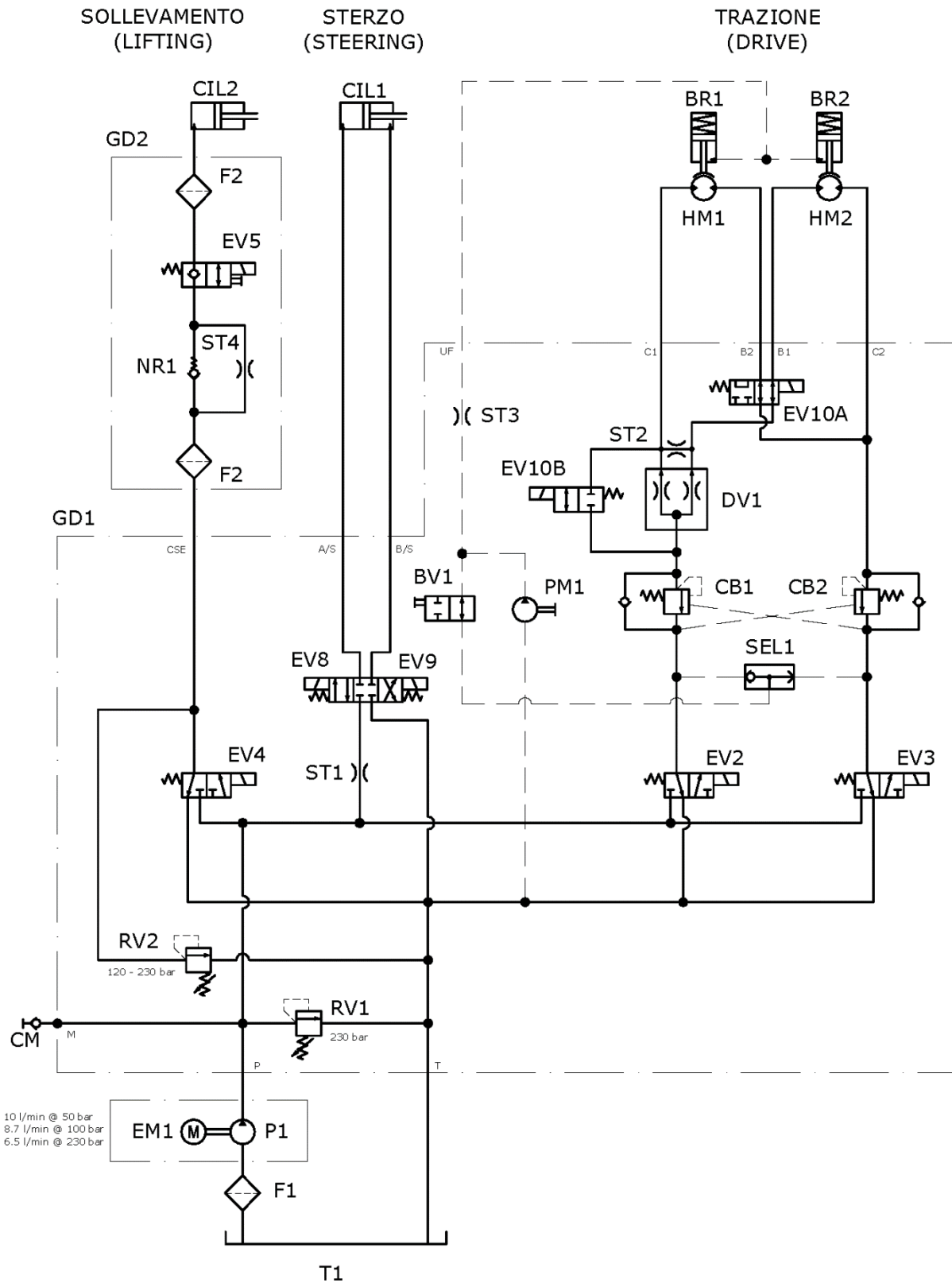
11. HYDRAULIC DIAGRAM

HYDRAULIC DIAGRAM - STANDARD MACHINES

X8EN – X8EW-WIND – X10EN – X10EW – X10EW-WIND – XS7 E RESTYLING – XS8 E RESTYLING LIGHT
XS8 E RESTYLING – XS8 E RESTYLING WIND

BR1 / BR2	PARKING BRAKES
BV1	BRAKE RELEASE SWITCH FOR EMERGENCY TOWING
CB1 / CB2	BRAKING VALVES
CIL1	STEERING CYLINDER
CIL2	LIFTING CYLINDER
CM	PRESSURE GAUGE CONNECTION 1/4" BSP
DV1	FLOW DIVIDER
EM1	ELECTRIC MOTOR
EV10A	SOLENOID VALVE, SERIES-PARALLEL TRACTION
EV10B	BYPASS SOLENOID VALVE FLOW DIVIDER
EV2	FORWARD DRIVE SOLENOID VALVE
EV3	BACKWARD DRIVE SOLENOID VALVE
EV4	LIFTING SOLENOID VALVE
EV5	LOWERING SOLENOID VALVE
EV8	RIGHT STEERING SOLENOID VALVE
EV9	LEFT STEERING SOLENOID VALVE
F1	SUCTION FILTER
F2	FILTER SCREEN GROUP DROP COMMANDS
GD1	HYDRAULIC CONTROL UNIT
GD2	LOWERING CONTROL INTEGRATED ASSEMBLY
HM1 / HM2	DRIVE MOTORS
NR1	UNIDIRECTIONAL VALVE DESCENT LINE
P1	GEAR PUMP
PM1	EMERGENCY MANUAL DRIVE PUMP
RV1	Pressure relief valve calibration
RV2	MAXIMUM PRESSURE VALVE LIFT CIRCUIT
SEL1	BRAKE SELECTOR VALVE
ST1	CHOKE LINE OF STEERING
ST2	CHOKE LINE COMPENSATION DIVIDER
ST3	CHOKE BRAKES
ST4	DESCENT LINE CHOKE
T1	OIL TANK WITH HATCH

**X8EN – X8EW-WIND – X10EN – X10EW – X10EW-WIND – XS7 E RESTYLING – XS8 E RESTYLING LIGHT
XS8 E RESTYLING – XS8 E RESTYLING WIND**

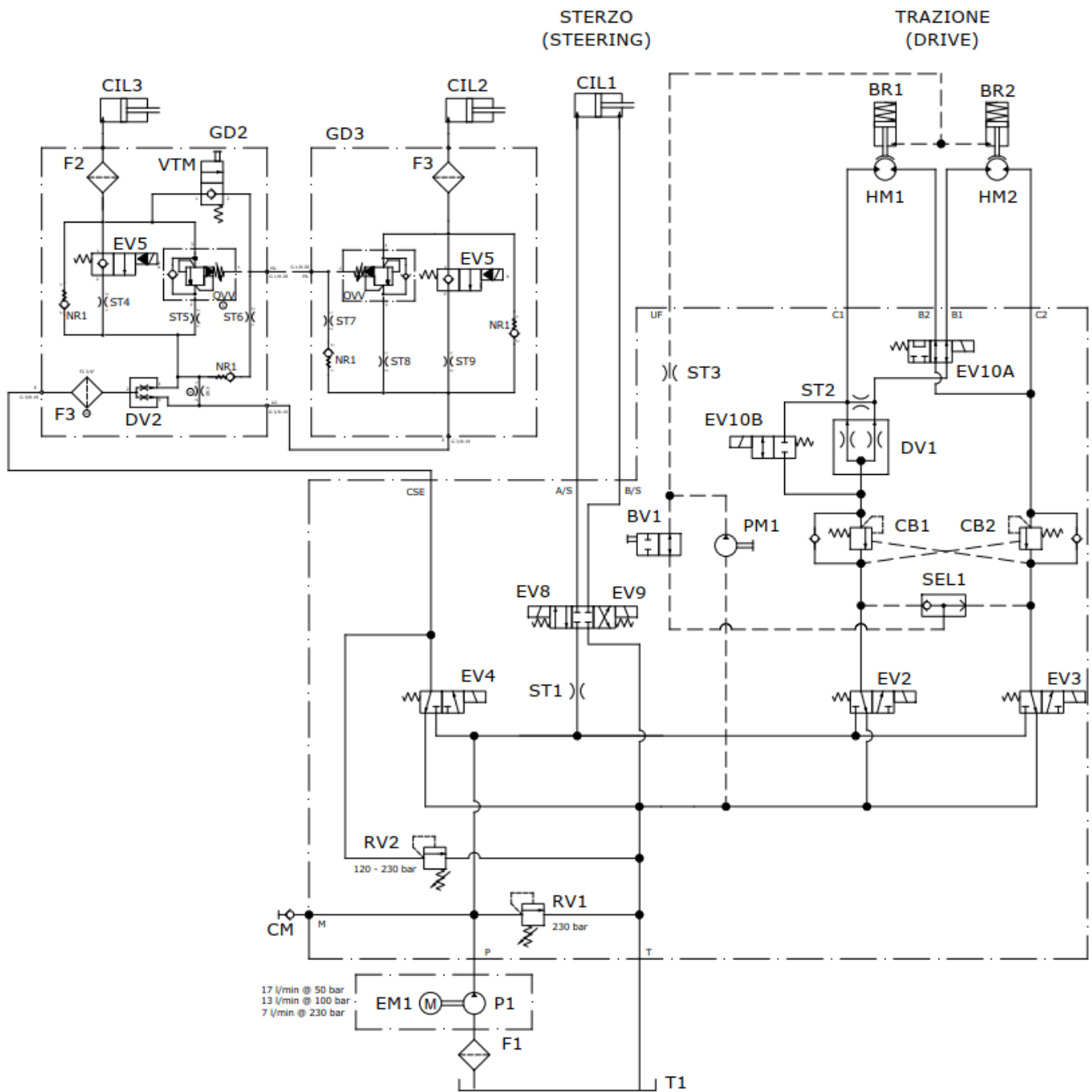


HYDRAULIC DIAGRAM - STANDARD MACHINES
X12EN – X12EW – X12EW-WIND – X14EW – X14 EN - XS9 E RESTYLING

BR1 / BR2	PARKING BRAKES
BV1	BRAKE RELEASE SWITCH FOR EMERGENCY TOWING
CB1 / CB2	BRAKING VALVES
CIL1	STEERING CYLINDER
CIL2 / CIL3	LIFTING CYLINDER
CM	PRESSURE GAUGE CONNECTION 1/4 BSP
DV1	FLOW DIVIDER
EM1	ELECTRIC MOTOR
EV10A	SOLENOID VALVE, SERIES-PARALLEL TRACTION
EV10B	BYPASS SOLENOID VALVE FLOW DIVIDER
EV2	FORWARD DRIVE SOLENOID VALVE
EV3	BACKWARD DRIVE SOLENOID VALVE
EV4	LIFTING SOLENOID VALVE
EV5A / EV5B	LOWERING SOLENOID VALVE
EV8	RIGHT STEERING SOLENOID VALVE
EV9	LEFT STEERING SOLENOID VALVE
F1	SUCTION FILTER
F2	FILTER SCREEN GROUP DROP COMMANDS
GD1	HYDRAULIC CONTROL UNIT
GD2 / GD3	LOWERING CONTROL INTEGRATED ASSEMBLY
HM1 / HM2	DRIVE MOTOR
NR1	UNIDIRECTIONAL VALVE DESCENT LINE
P1	GEAR PUMP
PM1	EMERGENCY MANUAL DRIVE PUMP
RV1	PRESSURE RELIEF VALVE CALIBRATION:
RV2	MAXIMUM PRESSURE VALVE LIFT CIRCUIT
RV3	LOWERING CIRCUIT PRESSURE RELIEF VALVE
SEL1	BRAKE SELECTOR VALVE
ST1	CHOKE LINE OF STEERING
ST2	CHOKE LINE COMPENSATION DIVIDER
ST3	CHOKE BRAKES
ST4	DESCENT LINE CHOKE
ST5	DESCENT LINE CHOKE
T1	OIL TANK WITH HATCH

HYDRAULIC DIAGRAM - STANDARD MACHINES X16 EW

BR1 / BR2	PARKING BRAKES
BV1	BRAKE RELEASE VALVE FOR EMERGENCY TOWING
CB1 / CB2	BRAKING VALVES
CIL1	STEERING CYLINDER
CIL2 / CIL3	LIFTING CYLINDER
CM	PRESSURE GAUGE CONNECTION 1/4 BSP
DV1	FLOW DIVIDER
EM1	ELECTRIC MOTOR
EV10A	SOLENOID VALVE, SERIES-PARALLEL TRACTION
EV10B	BYPASS SOLENOID VALVE FLOW DIVIDER
EV2	FORWARD DRIVE SOLENOID VALVE
EV3	BACKWARD DRIVE SOLENOID VALVE
EV4	LIFTING SOLENOID VALVE
EV5	LOWERING SOLENOID VALVE
EV8	RIGHT STEERING SOLENOID VALVE
EV9	LEFT STEERING SOLENOID VALVE
F1	SUCTION FILTER
F2	FILTER SCREEN GROUP DROP COMMANDS
GD1	HYDRAULIC CONTROL UNIT
GD2 / GD3	LOWERING CONTROL INTEGRATED ASSEMBLY
HM1 / HM2	DRIVE MOTOR
NR1	NON-RETURN VALVE
P1	GEAR PUMP
PM1	EMERGENCY MANUAL DRIVE PUMP
RV1	PRESSURE RELIEF VALVE CALIBRATION:
RV2	MAXIMUM PRESSURE VALVE LIFT CIRCUIT
RV3	LOWERING CIRCUIT PRESSURE RELIEF VALVE
SEL1	BRAKE SELECTOR VALVE
ST1	CHOKE LINE OF STEERING
ST2	CHOKE LINE COMPENSATION DIVIDER
ST3	CHOKE BRAKES
ST4	DESCENT LINE CHOKE
ST5	DESCENT LINE CHOKE
ST6	DESCENT LINE CHOKE
ST7	DESCENT LINE CHOKE
ST8	DESCENT LINE CHOKE
ST9	DESCENT LINE CHOKE
OVV	OVERCENTER VALVE
VTM	PUSH-PULL MANUAL VALVE
DV2	INTEGRATED FLOW DIVIDER
T1	OIL TANK WITH HATCH



12. ELECTRIC DIAGRAM

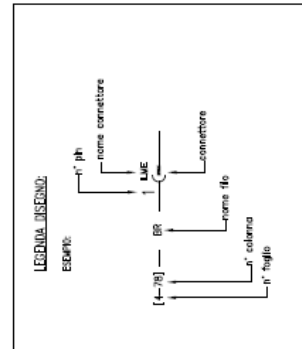
WIRING DIAGRAM - STANDARD MACHINES

045.08.011 – 045.08.012

X8EW-WIND – X8EN – X10EW – X10EW-WIND – X10EN – X12EW – X12EW-WIND – X12EN – X14EW – X14 EN
X16 EW - XS7 E RESTYLING – XS8 E RESTYLING LIGHT – XS8 E RESTYLING – XS8 E RESTYLING WIND - XS9 E
RESTYLING

	P1 CONNECTOR	P5-11	EV4 solenoid valve control – Lifting
P1-5	Green led platform controls enable	P5-12	EV11 solenoid valve control – By pass
P1-7	Red led platform general alarm		
P1-8	Red led platform overload alarm		DEVICES AND SHEATHS KEY
P1-9	AV2 platform audible alarm	CB	Battery charger
	P2 CONNECTOR	CC	Overload controller
P2-1	5V - Positive joystick potentiometer	CCT	Ground controls cable
P2-3	-batt- Negative joystick potentiometer	CCP1	Platform controls cable – sheath 1
P2-6	Joystick potentiometer signal	CCP2	Platform controls cable – sheath 2
P2-7	Positive limit switch power + system led ON	EV2	Forward drive solenoid valve
P2-8	EV5 negative control	EV3	Backward drive solenoid valve
P2-9	Red led platform flat battery alarm	EV4	Lifting solenoid valve
	P3 CONNECTOR	EV5 A/B	Lowering solenoid valve
P3-1	Positive platform controls	EV8	Left steering solenoid valve
P3-2	Positive platform controls	EV9	Right steering solenoid valve
P3-3	Speed control “Hare”	EV10 A/B	Fast drive solenoid valve
P3-4	Backward / Lowering control	KL	Horn
P3-5	Forward / Lifting control	+KL	Horn positive control
P3-6	Platform drive selection	M1	M1 limit switch (contact closed with platform lowered)
P3-7	Platform Lifting / Lowering selection	MPT1	MPT limit switch (contact closed with pot-hole guard lowered)
P3-8	Right steering control	MPT2	MPT limit switch (contact closed with pot-hole guard lowered)
P3-9	Left steering control	RCB	Battery charger relay
P3-10	Load control signal	SP1	Ground emergency switch
P3-12	”Dead-man” control	SP2	Platform emergency switch
	P4 CONNECTOR	TLR	Line remote switch
P4-1	Positive ground controls		
P4-4	Ground lowering control	(-)	0V – Negative battery
P4-5	Ground lifting control	-B	0V – Negative battery
P4-6	M1 limit switch signal (contact closed with platform lowered)	5AB	Jumper between EV5 and EV8 sheaths
P4-7	MPT limit switch signal (contact closed with pot-hole guards lowered)	+KL	Platform horn control
P4-11	System signal active	MPT	Jumper between MPT1 and MPT2 sheaths
P4-12	Flat battery signal	+RCB	+24V – Positive battery from battery charger relay
	P5 CONNECTOR	SP1	Positive from ground emergency button
P5-1	line remote switch TLR control and hour-meter signal	SP2	Positive from platform emergency button
P5-2	EV2 solenoid valve control – Forward drive		
P5-3	EV3 solenoid valve control – Backward drive	1	Battery charger
P5-5	Rotating beacons control	2	Battery
P5-6	EV8 solenoid valve control – Left steering	3	Quick disconnection plug
P5-7	EV5 solenoid valve positive control - Lowering	4	Power fuse
P5-8	EV9 solenoid valve control – Right steering	5	Line remote switch
P5-9	EV10A / EV10B solenoid valve control – Fast drive	6	Electric pump
P5-10	AV1 audible alarm	7	Controller

SIMB.	DESCRIZIONE	Pag.-Col.	SIMB.	DESCRIZIONE	Pag.-Col.
AV1	Avvisatore acustico a terra	2-27	MPT1	Fincorsa pot-hole destro	2-34
AV2	Avvisatore acustico in piattaforma	4-77	MPT2	Fincorsa pot-hole sinistro	2-34
BC	Caricabatteria	1-7/10	SP1	Interruttore di emergenza a fungo a terra	2-20/21
BT	Batteria Trazione	1-11/12	SP2	Interruttore di emergenza a fungo in piattaforma	4-67/69
EP	Elettropompa	1-14/15	SP3	Pulsante clacson	4-67/69
EV2	Elettrovalvola di Trazione Avanti	3-41/42	SP8	Pulsante opzione S.A.F.E.	4-73/74
EV3	Elettrovalvola di Trazione Indietro	3-42/43	SP9	Pulsante serie/parallelo trazione	4-72/73
EV4	Elettrovalvola di sollevamento	3-46	SW1	Selettori comandi	2-20/21
EV5A	Elettrovalvola di discesa A	3-41	SW2	Selettore modalità trazione/sollevamento	4-70/71
EV5B	Elettrovalvola di discesa B	3-41	SW4	Selettori Salita/Discesa da terra	2-22/24
EV8	Elettrovalvola di sterzo a sinistra	3-43	SW6	Selettore Sterzo	4-74/75
EV9	Elettrovalvola di sterzo a destra	3-44	TLR	Teleruttore di linea	1-15/16
EV10A	Elettrovalvola serie/parallelo trazione	3-45	UM	Contacto pedale "Uomo presente"	4-77
EV10B	Elettrovalvola serie/parallelo trazione	3-45/46			
F1	Fusibile circuito di potenza	1-15			
GRF1	Girofaro 1	2-37			
GRF2	Girofaro 2	2-38			
HC+FG	Conta Ore + Bloccabatteria	2-23/26			
Ind BC	Indicatore Carica Batteria	1-09/10			
KL	Clacson 24Vdc	3-47			
KTRL	Contacto ausiliario teleruttore di linea	1-15/16			
KTRL1	Contacto ausiliario teleruttore di linea 1	1-15/16			
L1	Led Impianto Acceso	2-25/26			
L2	Led "Uomo Presente"	4-73			
L3	Led Batteria Scarica	4-74			
L3	Led Allarmi in piattaforma	4-74			
L4	Led Allarmi Carico	4-75/76			
LC1	Cella di Carico 1	4-63/64			
LC2	Cella di Carico 2	4-63/64			
LC3	Cella di Carico 3	4-63/64			
LC4	Cella di Carico 4	4-63/64			
LCB	Scheda Controllo del Carico	4-61/66			
M1	Fincorsa posizione piattaforma	2-34			



Formato UNI A3

C Aggiunta opzione S.A.F.E. B Inserito condensatore su clacson A Modificato schema per sostituzione joystick REV.	C.M.	PRIMA DATA 25.11.15 17.09.15 24.04.14	PRIMA DATA 28.08.2012	PRIMA DATA 28.08.2012	IMPIANTO Serie XS Restyling Schema elettrico completo XS Restyling	PIATTAFORME AEREE SEMOVENTI Tigrone srl Via Valsuganese 1, Luzone (RE) - ITALIA -	CODICE 064.80.006	FOGLIO 5	SEQUE -	TOT. FOGLI 5
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Formato UNI A3

13. DECLARATION OF CONFORMITY EC FACSIMILE

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОМФОРМНОСТИ EC
2006/42/CE**

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X8 EN	XXXXXXXXXX	XXXXXXXXXX

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Eurofins Product Testing Italy Srl - Via Cuorné, 21 10156 Torino - TO (Italia)

Identification No. 0477

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N.Certificato - Certificate No. - N° du certificat - Bestätigungnummer - N° de certificado - Номер Сертификата - Certifikačního číslm

XYZ

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Luzzara (RE), data-date-date-Datum-fecha-Дата

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Pignatti Simone
(Il legale rappresentante - The legal representative)

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ЗАЯВЛЕНИЕ О КОИФОРМНОСТИ ЕС
2006/42/CE**

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X8 EW WIND	XXXXXXXXXX	XXXXXXXXXX

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Identification No. 0477**

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XYZ

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DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ ЕС
2006/42/CE**

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ЗАЯВЛЕНИЕ О КОИФОРМНОСТИ ЕС
2006/42/CE**

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DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ ЕС
2006/42/CE**

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X10 EW WIND	XXXXXXXXXX	XXXXXXXXXX

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N.Certificato - Certificate No. - N° du certificat - Bestätigungnummer - N° de certificado - Номер Сертификата - Certifikačního číslem

XYZ

e alle norme seguenti:	and with the following standards:	et aux normes suivantes:	Die Erklärung entspricht den folgenden Normen:	y a las siguientes normas:	и со следующими нормами:	a tyto normy:
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EN 280:2013+A1:2015 EN ISO 12100:2010 EN ISO 60204-1:2018

Il firmatario di questa dichiarazione di conformità è autorizzato a costituire Fascicolo Tecnico.	The signatory of this conformity declaration is authorized to set up the Technical File.	Le signataire de cette déclaration de conformité est autorisé à constituer le Dossier Technique.	Der Unterzeichner dieser Konformitätserklärung ist autorisiert, das technische Unterlagen abzufassen.	El firmante de esta declaración de conformidad está autorizado a crear el Expediente Técnico.	Лицо, подписавшее это заявление о соответствии, уполномочено составить техническую документацию оборудования	Signatářem tohoto tvrzení je oprávněna tvořit technické dokumentace.
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Luzzara (RE), data-date-date-Datum-fecha-Дата

.....
Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ ЕС
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	originál prohlášení
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Noi - A mou osobou - We - Nous - Wir – Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) – ITALIA

Dichiaro sotto la nostra esclusiva responsabilità che il prodotto:	Declare under our exclusive responsibility that the product:	Declarons sous notre responsabilité exclusive que le produit:	Erklären hiermit unter Übernahme der vollen Verantwortung für diese Erklärung, daß das Produkt:	Declaramos bajo nuestra exclusiva responsabilidad que el producto:	Под нашу исключительную ответственность заявляем, что изделие:	Prohlašujeme na svou vlastní zodpovědnost, že:
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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ - Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - <u>Номер Рама</u>	Anno - Rok - Year - Année Vaujahr - Ano - <u>Год</u>
X12 EN	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterinárních osvědčení:
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**Eurofins Product Testing Italy Srl - Via Cuorné, 21 10156 Torino - TO (Italia)
Identification No. 0477**

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačného číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungsnummer - N° de certificado – Номер Сертификата - Certifikačního číslem

XYZ

e alle norme seguenti:	and with the following standards:	et aux normes suivantes:	Die Erklärung entspricht den folgenden Normen:	y a las siguientes normas:	и со следующими нормами:	a tyto normy:
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EN 280:2013+A1:2015 EN ISO 12100:2010 EN ISO 60204-1:2018

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Luzzara (RE), data-date-date-Datum-fecha-Дата

.....
Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ EC
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	originál prohlášení
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Noi - A mou osobou - We - Nous - Wir - Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) - ITALIA

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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ - Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - Номер Рама	Anno - Rok - Year - Année Baujahr - Ano - Год
X12 EW	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterinárních osvědčení:
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Eurofins Product Testing Italy Srl - Via Cuorné, 21 10156 Torino - TO (Italia)

Identification No. 0477

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačním číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungsnummer - N° de certificado - Номер Сертификата - Certifikačního číselm

XYZ

e alle norme seguenti:	and with the following standards:	et aux normes suivantes:	Die Erklärung entspricht den folgenden Normen:	y a las siguientes normas:	и со следующими нормами:	a tyto normy:
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EN 280:2013+A1:2015 EN ISO 12100:2010 EN ISO 60204-1:2018

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Luzzara (RE), data-date-date-Datum-fecha-Дата

.....
Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ ЕС
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	originál prohlášení
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Noi - A mou osobou - We - Nous - Wir – Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) – ITALIA

Dichiaro sotto la nostra esclusiva responsabilità che il prodotto:	Declare under our exclusive responsibility that the product:	Declarons sous notre responsabilité exclusive que le produit:	Erklären hiermit unter Übernahme der vollen Verantwortung für diese Erklärung, daß das Produkt:	Declaramos bajo nuestra exclusiva responsabilidad que el producto:	Под нашу исключительную ответственность заявляем, что изделие:	Prohlašujeme na svou vlastní zodpovědnost, že:
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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ – Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - <u>Номер Рама</u>	Anno - Rok - Year - Année Vaujahr – Ano - <u>Год</u>
X12 EW WIND	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterárních osvědčení:
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**Eurofins Product Testing Italy Srl - Via Cuorgné, 21 10156 Torino - TO (Italia)
Identification No. 0477**

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačním číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungnummer - N° de certificado – Номер Сертификата - Certifikačního číslem

XYZ

e alle norme seguenti:	and with the following standards:	et aux normes suivantes:	Die Erklärung entspricht den folgenden Normen:	y a las siguientes normas:	и со следующими нормами:	a tyto normy:
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EN 280:2013+A1:2015 EN ISO 12100:2010 EN ISO 60204-1:2018

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Luzzara (RE), data-date-date-Datum-fecha-Дата

.....
Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ ЕС
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	original prohlášení
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Noi - A mou osobou - We - Nous - Wir - Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) – ITALIA

Dichiaro sotto la nostra esclusiva responsabilità che il prodotto:	Declare under our exclusive responsibility that the product:	Declarons sous notre responsabilité exclusive que le produit:	Erklären hiermit unter Übernahme der vollen Verantwortung für diese Erklärung, daß das Produkt:	Declaramos bajo nuestra exclusiva responsabilidad que el producto:	Под нашу исключительную ответственность заявляем, что изделие:	Prohlašujeme na svou vlastní zodpovědnost, že:
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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ – Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - <u>Номер Рама</u>	Anno - Rok - Year - Année Baujahr – Ano - <u>Год</u>
X14 EW	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterinních osvědčení:
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Eurofins Product Testing Italy Srl - Via Cuorné, 21 10156 Torino - TO (Italia)

Identification No. 0477

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačního číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungnummer - N° de certificado – Номер Сертификата - Certifikačního číslem

XYZ

e alle norme seguenti:	and with the following standards:	et aux normes suivantes:	Die Erklärung entspricht den folgenden Normen:	y a las siguientes normas:	и со следующими нормами:	a tyto normy:
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EN 280:2013+A1:2015 EN ISO 12100:2010 EN ISO 60204-1:2018

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--	--	--	---	---	--	--

Luzzara (RE), data-date-date-Datum-fecha-Дата

.....
Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ ЕС
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	Originál prohlášení
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Noi - A mou osobou - We - Nous - Wir - Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) – ITALIA

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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ - Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - Номер Рама	Anno - Rok - Year - Année Vaujahr - Ano - Год
X14 EN	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterinárních osvědčení:
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Eurofins Product Testing Italy Srl - Via Cuorgné, 21 10156 Torino - TO (Italia)

Identification No. 0477

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačním číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungnummer - N° de certificado - Номер Сертификата - Certifikačního číslem

XYZ

e alle norme seguenti:	and with the following standards:	et aux normes suivantes:	Die Erklärung entspricht den folgenden Normen:	y a las siguientes normas:	и со следующими нормами:	a tyto normy:
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EN 280:2013+A1:2015 EN ISO 12100:2010 EN ISO 60204-1:2018

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Luzzara (RE), data-date-date-Datum-fecha-Дата

Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ EC
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	Originál prohlášení
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Noi - A mou osobou - We - Nous - Wir - Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) - ITALIA

Dichiaro sotto la nostra esclusiva responsabilità che il prodotto:	Declare under our exclusive responsibility that the product:	Declarons sous notre responsabilité exclusive que le produit:	Erklären hiermit unter Übernahme der vollen Verantwortung für diese Erklärung, daß das Produkt:	Declaramos bajo nuestra exclusiva responsabilidad que el producto:	Под нашу исключительную ответственность заявляем, что изделие:	Prohlašujeme na svou vlastní zodpovědnost, že:
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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ - Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - Номер Рама	Anno - Rok - Year - Année Baujahr - Ano - Год
X16 EW	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterárních osvědčení:
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Eurofins Product Testing Italy Srl - Via Cuorné, 21 10156 Torino - TO (Italia)

Identification No. 0477

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačního číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungsnummer - N° de certificado - Номер Сертификата - Certifikačního číslem

XYZ

e alle norme seguenti:	and with the following standards:	et aux normes suivantes:	Die Erklärung entspricht den folgenden Normen:	y a las siguientes normas:	и со следующими нормами:	a tyto normy:
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EN 280:2013+A1:2015 EN ISO 12100:2010 EN ISO 60204-1:2018

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Luzzara (RE), data-date-date-Datum-fecha-Дата

Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ ЕС
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	originál prohlášení
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Noi - A mou osobou - We - Nous - Wir – Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) – ITALIA

Dichiaro sotto la nostra esclusiva responsabilità che il prodotto:	Declare under our exclusive responsibility that the product:	Declarons sous notre responsabilité exclusive que le produit:	Erklären hiermit unter Übernahme der vollen Verantwortung für diese Erklärung, daß das Produkt:	Declaramos bajo nuestra exclusiva responsabilidad que el producto:	Под нашу исключительную ответственность заявляем, что изделие:	Prohlašujeme na svou vlastní zodpovědnost, že:
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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ – Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - <u>Номер Рама</u>	Anno - Rok - Year - Année Vaujahr – Ano - <u>Год</u>
XS7 RESTYLING	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterárních osvědčení:
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**Eurofins Product Testing Italy Srl - Via Cuorgné, 21 10156 Torino - TO (Italia)
Identification No. 0477**

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačním číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungsnummer - N° de certificado – Номер Сертификата - Certifikačního číslem

XYZ

e alle norme seguenti:	and with the following standards:	et aux normes suivantes:	Die Erklärung entspricht den folgenden Normen:	y a las siguientes normas:	и со следующими нормами:	a tyto normy:
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EN 280:2013+A1:2015 EN ISO 12100:2010 EN ISO 60204-1:2018

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Luzzara (RE), data-date-date-Datum-fecha-Дата

.....
Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ EC
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	originál prohlášení
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Noi - A mou osobou - We - Nous - Wir - Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) - ITALIA

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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ - Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - Номер Рама	Anno - Rok - Year - Année Baujahr - Año - Год
XS8 RESTYLING LIGHT	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterinárních osvědčení:
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**Eurofins Product Testing Italy Srl - Via Cuorné, 21 10156 Torino - TO (Italia)
Identification No. 0477**

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačního číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungnummer - N° de certificado - Номер Сертификата - Certifikačního číslem

XYZ

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Luzzara (RE), data-date-date-Datum-fecha-Дата

.....
Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ ЕС
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	originál prohlášení
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Noi - A mou osobou - We - Nous - Wir – Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) – ITALIA

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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ – Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - <u>Номер Рама</u>	Anno - Rok - Year - Année Vaujahr – Ano - <u>Год</u>
XS8 RESTYLING	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterárních osvědčení:
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**Eurofins Product Testing Italy Srl - Via Cuorgné, 21 10156 Torino - TO (Italia)
Identification No. 0477**

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačním číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungsnummer - N° de certificado – Номер Сертификата - Certifikačního číslem

XYZ

e alle norme seguenti:	and with the following standards:	et aux normes suivantes:	Die Erklärung entspricht den folgenden Normen:	y a las siguientes normas:	и со следующими нормами:	a tyto normy:
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--	--	--	---	---	--	--

Luzzara (RE), data-date-date-Datum-fecha-Дата

.....
Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОНФОРМНОСТИ ЕС
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	originál prohlášení
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Noi - A mou osobou - We - Nous - Wir - Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) – ITALIA

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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ – Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - <u>Номер Рама</u>	Anno - Rok - Year - Année Baujahr – Ano - <u>Год</u>
XS8 RESTYLING WIND	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterárních osvědčení:
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Eurofins Product Testing Italy Srl - Via Cuorné, 21 10156 Torino - TO (Italia)

Identification No. 0477

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačního číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungnummer - N° de certificado – Номер Сертификата - Certifikačního číslem

XYZ

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EN 280:2013+A1:2015 EN ISO 12100:2010 EN ISO 60204-1:2018

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Luzzara (RE), data-date-date-Datum-fecha-Дата

.....
Pignatti Simone
(Il legale rappresentante - The legal representative)

**DICHIARAZIONE CE DI CONFORMITA' - ES PROHLÁŠENÍ O SHODĚ - CE DECLARATION OF CONFORMITY -
DECLARATION CE DE CONFORMITE' - EG KONFORMITÄTSEKTLÄRUNG - DECLARACION CE DE CONFORMIDAD-
ЗАЯВЛЕНИЕ О КОМФОРМНОСТИ ЕС
2006/42/CE**

Dichiarazione originale	Original Declaration	Déclaration Originale	Originalerklärung	Declaración Original	Оригинальная декларация	originál prohlášení
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Noi - A mou osobou - We - Nous - Wir – Nosotros- мы

Tigieffe S.r.l. - Via Villa Superiore N.° 82 - Luzzara (Reggio Emilia) – ITALIA

Dichiaro sotto la nostra esclusiva responsabilità che il prodotto:	Declare under our exclusive responsibility that the product:	Declarons sous notre responsabilité exclusive que le produit:	Erklären hiermit unter Übernahme der vollen Verantwortung für diese Erklärung, daß das Produkt:	Declaramos bajo nuestra exclusiva responsabilidad que el producto:	Под нашу исключительную ответственность заявляем, что изделие:	Prohlašujeme na svou vlastní zodpovědnost, že:
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Piattaforma di Lavoro Elevabile; Pracovní plošinky; Mobile Elevating Work Platform; Plates-forme Elévatrice Mobiles de Personnel; Fahrbare; Hubarbeitsbühnen; Plataforma Elevadora Móvil de Personal; Платформа для высотного работ

Modello - Model - Modèle Typ – Modelo-МОДЕЛЬ	N° Chassis - Pořadové číslo rámu - Chassis No. N° Chassis - Fahrgestellnr - N° Chassis - <u>Номер Рама</u>	Anno - Rok - Year - Année Vaujahr – Ano - <u>Год</u>
XS9 RESTYLING	XXXXXXXXXX	XXXXXXXXXX

Al quale questa dichiarazione si riferisce è conforme alle direttive 2006/42/CE, 2014/30/CE, 2005/88/CE e al modello certificato da:	To which this declaration refers is in compliance with the directives 2006/42/CE, 2014/30/CE, 2005/88/CE and with the model certified by:	Faisant l'objet de la présente déclaration est conforme aux directives 2006/42/CE, 2014/30/CE, 2005/88/CE et au modèle certifié par	Auf das sich die vorliegende Erklärung bezieht, den 2006/42/CE, 2014/30/CE, 2005/88/CE Richtlinien und dem von:	Al cual esta declaración se refiere cumple las directivas 2006/42/CE, 2014/30/CE, 2005/88/CE y el modelo certificado por:	К которой это заявление относится, соответствует директивами 2006/42/CE, 2014/30/CE, 2005/88/CE и ертифицированной модели из:	na které se toto prohlášení vztahuje, splňuje požadavky 2006/42 / EC, 2014/30 / ES, 2005/88 / ES a vzorů veterinárních osvědčení:
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**Eurofins Product Testing Italy Srl - Via Cuorné, 21 10156 Torino - TO (Italia)
Identification No. 0477**

con il seguente numero di certificazione:	with the following certification number:	avec le numéro de certification suivant:	Zertifizierten Modell mit folgender Zertifizierungsnummer:	con el siguiente número de certificación:	со следующим сертифицированным номером:	s tímto certifikačného číslem:
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N.Certificato - Certificate No. - N° du certificat - Bestätigungsnummer - N° de certificado – Номер Сертификата - Certifikačního číslem

XYZ

e alle norme seguenti:	and with the following standards:	et aux normes suivantes:	Die Erklärung entspricht den folgenden Normen:	y a las siguientes normas:	и со следующими нормами:	a tyto normy:
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EN 280:2013+A1:2015 EN ISO 12100:2010 EN ISO 60204-1:2018

Il firmatario di questa dichiarazione di conformità è autorizzato a costituire il Fascicolo Tecnico.	The signatory of this conformity declaration is authorized to set up the Technical File.	Le signataire de cette déclaration de conformité est autorisé à constituer le Dossier Technique.	Der Unterzeichner dieser Konformitätserklärung ist autorisiert, das technische Unterlagen abzufassen.	El firmante de esta declaración de conformidad está autorizado a crear el Expediente Técnico.	Лицо, подписавшее это заявление о соответствии, уполномочено составить техническую документацию оборудования	Signatářem tohoto tvrzení je oprávněna tvořit technické dokumentace.
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Luzzara (RE), data-date-date-Datum-fecha-Дата

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Pignatti Simone
(Il legale rappresentante - The legal representative)



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