









July 2020 edition:

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Warning:

The pics on this leaflet are not under contract.

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1. PREAMBLE



Before any use of the product:

- 1- Read the leaflet: It will inform you how to use the product securely and must be at the disposal of the caring personnel.
- 2- Product cleaning and disinfection: Please see chapter 5.
- 3- Connection of the Vertic to the electrical network: Please see chapter 4.5
- 4- Make sure of the good working of all functions.

Only entitled staff who has read and understood these complete instructions can use Vertic2.

Always use Vertic2 with a person who can belay the patient in case of blackout of the patient or failure of the hoist.

Use Vertic2 following the maintenance instructions (see Vertic2 maintenance paragraph). If you have any doubt about Vertic2 operating, please call HMS-VILGO After Sales Service for a diagnostic before using the hoist on a patient.

HMS-VILGO will not be responsible for damage if these warnings are not followed.

This manual contains all the technical information you need to make a good use of this product. This information has been carefully checked by HMS-VILGO. This is not an exhaustive list and HMS-VILGO is not responsible for any kind of mistakes or omissions.

2. DESCRIPTION

2.1. WHERE TO USE VERTIC2

The Vertic2 is a lifting and transfer device. It is used to transfer disabled or elderly people:

- At home, to transfer the patient to an armchair, a toilet seat or a chair,
- In independent living structures,
- In a nursing or care home

Do not use Vertic outdoors or on a surface whose declivity could make the patient fell down (>5°).

2.2. DESCRIPTION GENERALE



2.3. TECHNICAL CHARACTERISTICS

Materials : Steel

Finish: Epoxy paint coating Class:

Weight: 36 kg

Weight per item: Chassis: 21 kg / 46 lb

Mast + arms : 13 kg / 28.6 lb

Leg rest : 2kg / 4.4 lb

Maximum patient weight to be transferred: 150 kg / 23.5 stones

Electric protection classification : Class II
Applied parts : Type B

Electrical equipment conformed to NF EN 60 601-1 and to NF EN 60 601-1-2

Duty cycle : 2 min./18 min. (10%) Input : 230V ~ 50 HZ

Actuator input: 24 V CC
Battery charge required time: 15 hrs

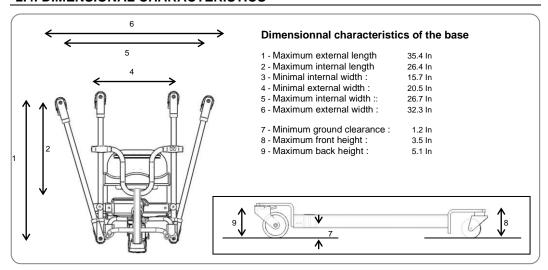
Battery disarge required time : 15 ms

Battery autonomy : 40 cycles

Electrical equipment protection : remote co

remote control : IP X6 control box : IPX4 actuator : IP X4

2.4. DIMENSIONAL CHARACTERISTICS



Total lift / lifting radius / overall dimension :

1 - Lifting radius at the highest suspension point :

2 - Total lift (3-4):

3 - Minimal suspension point height:

4 - Lifting radius at lowest point:

5 - distance between floor &hooks in the low position

6 - distance between floor &hooks in the high position:

9

7 - Overall height when in the low position:

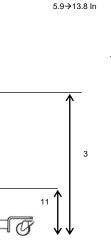
8 - Overall height when in the high position:

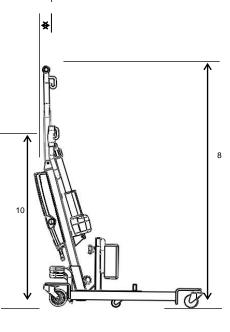
9 - Overall dimension length : 10 - Floor/handles height :

11 - Floor / leg rest height (mini→maxi)

1.6 ln 19.3 ln 35.8 ln 22.2 ln 34.2 ln 51.2 ln 41.3 ln 55.1 ln 38.6 ln

39.4 In





2.5. LABELLING

This label allows you:

To have all the necessary informations to make any intervention request for the after sales service thanks to the serial number and to the reference.

To ensure the follow up of the medical disposal.



It also gives to you the security loading charge for a good use.

There are 4 labels: One on the basis of the Vertic2, one on the electric actuator, one on the control box and one on the remote control.

Standards:



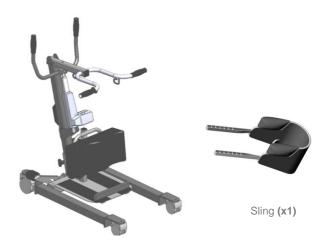
By this label, HMS-VILGO ensures that *Vertic2* hoist is conformed to European directive 89/336 referring to electromagnetic compatibility and to European directive 93/42 referring to medical devices.

3. VERTIC2 ASSEMBLING

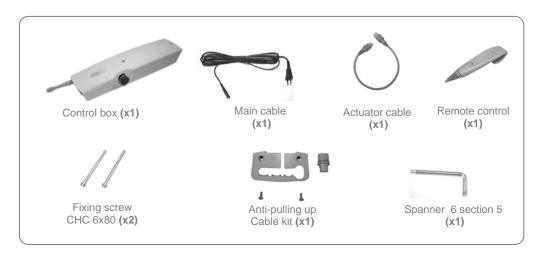
3.1. PACKAGE CONTENTS

Les éléments suivants composent le carton :

1 Vertic 2 chassis:

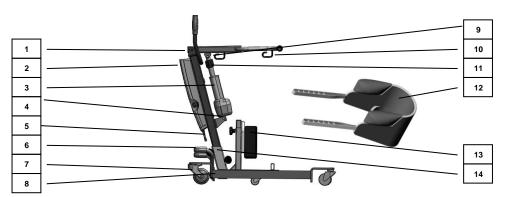


1 box contening:



RECOMMENDED CHECKS

Hoists are conformed to EN 10 535 standard which means that they can run 11 000 complete cycles under the conditions of uses they are designed for. Please, carefully consider how important it is to evenly check and maintain it in order to make sure that it is used under the standard specifications and under ours recommendations. We will not be responsible for any damage due to an abnormal use or to a too high number of cycles. You will find all the information you need for your checking and maintenance steps on pages 9, 10, 11 and 12.



	Item to check	Check	replacement after
		Periodicity: at least once a year and before renting it	11 000 cycles
1	pole / arms connection	- Check brass ring worn state	✓
		- Check fixing screw worn state	
		- Check stop-nut presence and assembling	
2	Control box	- Check emergency stop operating	
		- Check battery charging	
3	Actuator	- Check charging operating	
4	Actuator / pole	- Check fixing screw worn state	✓
	connection	- Check stop-nut presence and assembling	
5	Electrical cables	- Check cables (pinching, plug state, cut)	
6	Pedals	- Check pedals operating	
		- Check connecting rods worn state	
7	Back wheels	- Check braking system	
8	Side foot / pole support	- Check fixing worn state (screw nut + brass rings)	✓
	connection		
9	Actuator / arms	- Check fixing screw worn state	✓
	connection		
10	Arm hooks	- check the welding on all 3 hooks	
11	Emergency release	- Check electrical and manual release operating	
12	Sling	- Check seams	
13	Leg rest	- check the welding point of the leg rest	
		- check the blocking device	
14	pole / pole support	- Check knobs presence and assembling	✓
	connection	- Check support pole welding	

^{*} Please refer to page 10 to obtain the list of the necessary parts

Réf. Document : IB 7.5.1. 703 indice A

EVALUATION OF THE NUMBER OF HOIST OPERATING CYCLES

This table below, indicates if the replacement of axis and spare parts is necessary, in function of the number of runs a day.

	Oldness of the hoist (years)									
number of runs / a day	1	2	3	4	5	6	7	8	9	10
1	365	730	1095	1460	1825	2190	2555	2920	3285	3650
2	730	1460	2190	2920	3650	4380	5110	5840	6570	7300
3	1095	2190	3285	4380	5475	6570	7665	8760	9855	10950
4	1460	2920	4380	5840	7300	8760	10220	11680	13140	14600
5	1825	3650	5475	7300	9125	10950	12775	14600	16425	18250
6	2190	4380	6570	8760	10950	13140	15330	17520	19710	21900
7	2555	5110	7665	10220	12775	15330	17885	20440	22995	25550
8	2920	5840	8760	11680	14600	17520	20440	23360	26280	29200
9	3285	6570	9855	13140	16425	19710	22995	26280	29565	32850
10	3650	7300	10950	14600	18250	21900	25550	29200	32850	36500
11	4015	8030	12045	16060	20075	24090	28105	32120	36135	40150
12	4380	8760	13140	17520	21900	26280	30660	35040	39420	43800
13	4745	9490	14235	18980	23725	28470	33215	37960	42705	47450
14	5110	10220	15330	20440	25550	30660	35770	40880	45990	51100
15	5475	10950	16425	21900	27375	32850	38325	43800	49275	54750
16	5840	11680	17520	23360	29200	35040	40880	46720	52560	58400
17	6205	12410	18615	24820	31025	37230	43435	49640	55845	62050
18	6570	13140	19710	26280	32850	39420	45990	52560	59130	65700
19	6935	13870	20805	27740	34675	41610	48545	55480	62415	69350
20	7300	14600	21900	29200	36500	43800	51100	58400	65700	73000
21	7665	15330	22995	30660	38325	45990	53655	61320	68985	76650
22	8030	16060	24090	32120	40150	48180	56210	64240	72270	80300
23	8395	16790	25185	33580	41975	50370	58765	67160	75555	83950
24	8760	17520	26280	35040	43800	52560	61320	70080	78840	87600
25	9125	18250	27375	36500	45625	54750	63875	73000	82125	91250
26	9490	18980	28470	37960	47450	56940	66430	75920	85410	94900
27	9855	19710	29565	39420	49275	59130	68985	78840	88695	98550
28	10220	20440	30660	40880	51100	61320	71540	81760	91980	102200
29	10585	21170	31755	42340	52925	63510	74095	84680	95265	105850
30	10950	21900	32850	43800	54750	65700	76650	87600	98550	109500

Keep using the hoist.

Foresee axles and spare parts replacement.

*Replace axles and spare parts.

^{*} See spare parts list page 10

MAINTENANCE BOOK

HOIST REFERENCE:	
Serial number :	Date of 1st use :

DATE	MAINTENANCE AND QUALITY CHECKING	NAME & APPROVALS
/ Number of cycles		APPROVALS
Number of cycles evaluated		

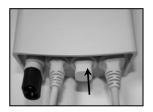
SPARE PARTS LIST

Part	Description	Item code	Qty	Location	Replacement after 11 000 cycles
	LA31 6000N actuator	A501228	1	/	
	CBJH1 control box	A501662	1	/	
	HB31 remote control	A501217	1	/	
	M10x18 knob	A300023	2	pole / cross piece connection	
4	TH10x55 screw	A001128	1		✓
_	Ø 8 stop nut	A001072	1	actuator / arms	·
Ö	Ø 10/20 washer	A001061	2	connection	
	Ø 10 Lg 64+20 articulation pole/cross	A001128	1		✓
	piece axle	A001072	2		*
Ö	Ø 8 stop-nut Ø 8 washer	A001061	2	actuator / pole connection	
	nole / cottota lift. A fining plate	A501244	_		
	pole / actuator Lifty 4 fixing plate Ø 12 stop nut	A001244 A001080	2		
-	HH 12x80 screw	A501251	2		
70	Bague laiton Ø 22/10	A002016	2		
	Ø 10 Lg 56+20 articulation pole/arms	A501067	1		
	Ø 8 stop nut	. 100 1007		Pole / arms	1
	Ø 8 washer	A001004	2	connection	Y
ŏ		A001062	2		
•					
	Ø 40/3.4 brass ring	A001066		Side foot /	
	or		4	cross piece	✓
	Ø 40/3 brass ring	A001089		connection	▼
0	pedals bushing	A000840	4	pedals	✓

3.2. PLUGGING



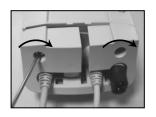
Plugging / Anti-Pulling up cable



1/ Plug the remote control and the actuator cables and plug the shutter.



2/ Put the anti-pulling up hood in placing the cables through the opening.



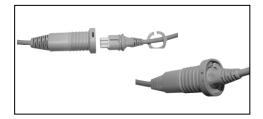
3/ Screw the hood to the control box with a crossed screw-driver.



2) Fix the control box to the pole in screwing the 2 cross screws.



3) Plug the actuator cable to the control box and to the actuator: You can lock this connection with the supplied locking clip.







Your Vertic2 is now ready to run.

4. USE

4.1. FIRST USE

The battery delivered with the *Vertic2* is fully charged so that you can start using the hoist immediately. However check the hoist has been assembled properly as explained in paragraph 3, and try it without a patient to get familiar with its use and functions.

4.2. VERTIC 2 USE

4.2.1 Sling installation and operating:

Reminder: Sling is adjustable. User is responsible for adjusting it in order to not hurt the patient. *Vertic2* is delivered with its sling. See the user instruction bellow.





- 1/ Undo the abdominal belt.
- 2/ Put the sling behind the patient's back and slide the A and B parts to be hooked, under his/her arms.
- 3/ fasten the belt around the patient's belly.
- 4/ Attach snap hook A to one of the C rings
- 5/ Attach snap hook B to one of the D rings

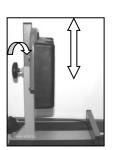
4.2.2 Transferring the patient:

While the patient is seated on a chair, armchair or on the edge of electrical bed:

1/ Bring the Vertic closer and place the patient's feet on the foot rest.

(depending on the situation and layout of the space available, narrow or widen the side feet to get close to the patient)

- 2/ Adjust the leg-rest up or down to block the patient's shins against it (pull the locking screws on each side of the pole)
- 3/ Lock brakes
- 4/ Set up the sling
- 5/ Press the up button on the handset (1) to lift up the main pole (make sure the sling is not stuck and does not injure the patient while doing this).
- 6/ Unlock brakes to transfer the patient.
- 7/ Press the down button (Ψ) to bring the patient down.





4.3. SAFETY

crushing safety: Vertic 2 runs with a single-acting actuator. Any obstacle on its way will automatically stop its going-down.

Emergency stop: the *Vertic* 2 emergency stop button is located on the control box. Push it to stop the lifting or going-down. Push it again to unlock it.



Electric safety: lifting and going-down are locked when Vertic2 is connected to charge battery.

Emergency going-down (only use when patient is stuck above and that it is impossible to go down using the remote control): There are two actuator release systems:

1/ Electrical release:

To go down, push the blue switch located under the emergency stop.



2/ Manual release:

Push down (1) and turn to the right (2) the red ring of the actuator. This function can be used if the electrical system is not efficient.



A third person must assist the patient during the entire emergency going-down process.



4.4. CONTROL BOX OPERATING, BATTERY CHARGE:

If the charging level is too weak, an alarm sounds (in a constant way) when the control box is activated. The charging of the battery is then necessary.

The control box has its own integrated charger. To charge batteries, connect the control box to the 220 VAC main power line, until the green led turn on indicating batteries are charged (approximately 12 hours).

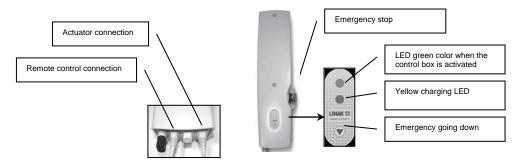


The *Vertic 2* must be connected to a network which is in accordance with the NFC 15-100 and NFC 15-211 (230 V Electric plug + ground connection) for France and CEI 364 for other destinations.

Make sure that the power supply of the control box (you can find it on the label), is in accordance with the establishment power supply.

It is advisable to connect the device on a power fitting protected by a differential circuit breaker of 30 mA Maximum, in accordance with the CEI 364-5-53 publication.

Warning, the loading of the batteries works only if the emergency button is out of power (put it on the position 'on' to load the batteries).



To make batteries last longer, they must be recharged every night.

4.5. STORAGE INSTRUCTIONS:

Do not expose to moisture.

Store in a temperate dry place (5°C to 40°C).

Charge battery before using it after a long time off.

Handling and stocking of the lift has to be done in order to avoid any impact, falling or damage of the material.

5. VERTIC2 MAINTENANCE

5.1 WEEKLY MAINTENANCE

Slina:

Check the sling by looking at its seams condition: immediately replace a sling that starts to show any tear.

Electrical parts:

Test the emergency stop switch while lifting and lowering the support beam.

Look at the electrical cables cover.

Test crushing safety system by placing an item on the support beam going-down way.

Chassis:

Check the brake of the back wheels.

Look at the global geometry on the Vertic2 (no bent item).

Make sure that the 4 wheels are well positioned on the ground.

Make sure that there is no play between the support beam and the pole.

Sling cleaning instructions:

1 86°F (or 30°C) machine wash - St. Do not dry clean - Do not iron

Cleaning of the Vertic 2:

Before any intervention on the *Vertic2*, disconnect it from the power and take out the control box. Follow this cleaning protocol.

1-Use a non-woven fabric and a relevant cleaning solution (ANIOS DETERGENT DESINFECTANT SURFACES HAUTES Or any similar product).

Apply the indicated dosage.

2-Clean all surfaces.

3-Let dry.

WARNING.

- -Do not splash water onto the device
- Do not use high-pressure cleaning

STRICTLY FORBIDDEN:

-pure alcohol (PA)

-Acetone

- tetrachloroethylene and trichlorethylene

-any type of solvants

-abrasive cleaning products -any type of wax

5.2 ANNUAL MAINTENANCE

We recommend a complete annual check up on this type of device. Please find on page 9-12 the summary of the necessary controls and checkups you need to perform on the hoist; as well as the maintenance sheet to log in all interventions.

5.3 WARRANTY

Your *Vertic2* hoist has its own serial number. This number is on a label on the chassis and is repeated on every electrical part. To make a claim using the warranty, you need to return the faulty part, with its serial number label to your retailer who will contact us.

The warranty of this product is valid for 5 years (except battery: 1 year).

ANY RETURN WITHOUT SERIAL NUMBER LABEL WILL NOT BE COVERED BY THE WARRANTY.

The warranty does not cover any breakdown due to inappropriate or wrong use or maintenance, in spite of the specifications and use instructions stated in this manual. (electrical shock, torn cables etc.)

Warranty does not cover any breakdown or malfunction due to parts being swapped over or replaced with used or unapproved parts.

5.4 RECYCLING

Recycling must be done according to the type of materials and components and in compliance with the current recycling regulations. Disposal and destruction of the faulty parts must be handled by an agreed recycling company.







Cachet distributeur



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