



**PNEUMATIC ELEVATOR  
FOR 200 LIT. COVER DRUMS EN-4**



**DECLARACION DE CONFORMIDAD “CE”  
“EC” DECLARATION OF CONFORMITY**

**MODELO / MODEL EN-4**

Este producto cumple con la siguiente directiva de la Comunidad Europea.

This Product complies with the following European Community Directive.

Directiva 2014/34/EU Atex sobre máquinas. (Ex II 2G c T6 X)  
Machinery Directive 2014/34/EU Atex Directive.(Ex II 2G c T6 X).

APROBADO POR /  
APPROVED BY

AITOR ORTIZ

FECHA / DATE

MBP, S.L. figura inscrita en el Registro Industrial del País Vasco con el N° 01/8030 y cumple los requisitos para el desarrollo de su actividad comercial.

MBP, S.L. is registered in the Industrial Register of the Basque Country with the N° 01/8030.



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## WARNING

THIS SYMBOL ALERTS YOU ABOUT THE POSSIBILITY OF SERIOUS INJURIES OR DEATH IF INSTRUCTIONS ARE NOT FOLLOWED.



## CAUTION

THIS SYMBOL WARNS OF THE POSSIBILITY OF DAMAGE OR DESTRUCTION OF EQUIPMENT IF YOU DO NOT FOLLOW INSTRUCTIONS.



## WARNING



INSTRUCCIONES

### DANGER DUE TO MISUSE OF THE MACHINE

- Incorrect use can cause equipment to malfunction or even shatter and cause accidents.
- Consult the instruction's handbook before using the equipment.
- Use the equipment for its intended purpose.
- Check periodically the equipment and replace the damaged parts.
- Do not exceed the maximum pressure in the equipment.
- No strangle neither hoses nor nipple.
- No move or lift the equipment with pressure.
- Bear in mind all the local procedure of safety.

### TOXIC FLUID OR FUMES HAZARD



- Toxic fluids or fumes can cause serious injury if splashed in the eyes or on skin, inhaled, or swallowed.
- Know the specific hazards of the fluids you are using.



### **TOXIC FLUID OR FUMES HAZARD**

- Store hazardous fluid in approved containers.
- Use always gloves, mask, glasses and clothes to be protected from the possible hurts.



### **FIRE AND EXPLOSION HAZARD**

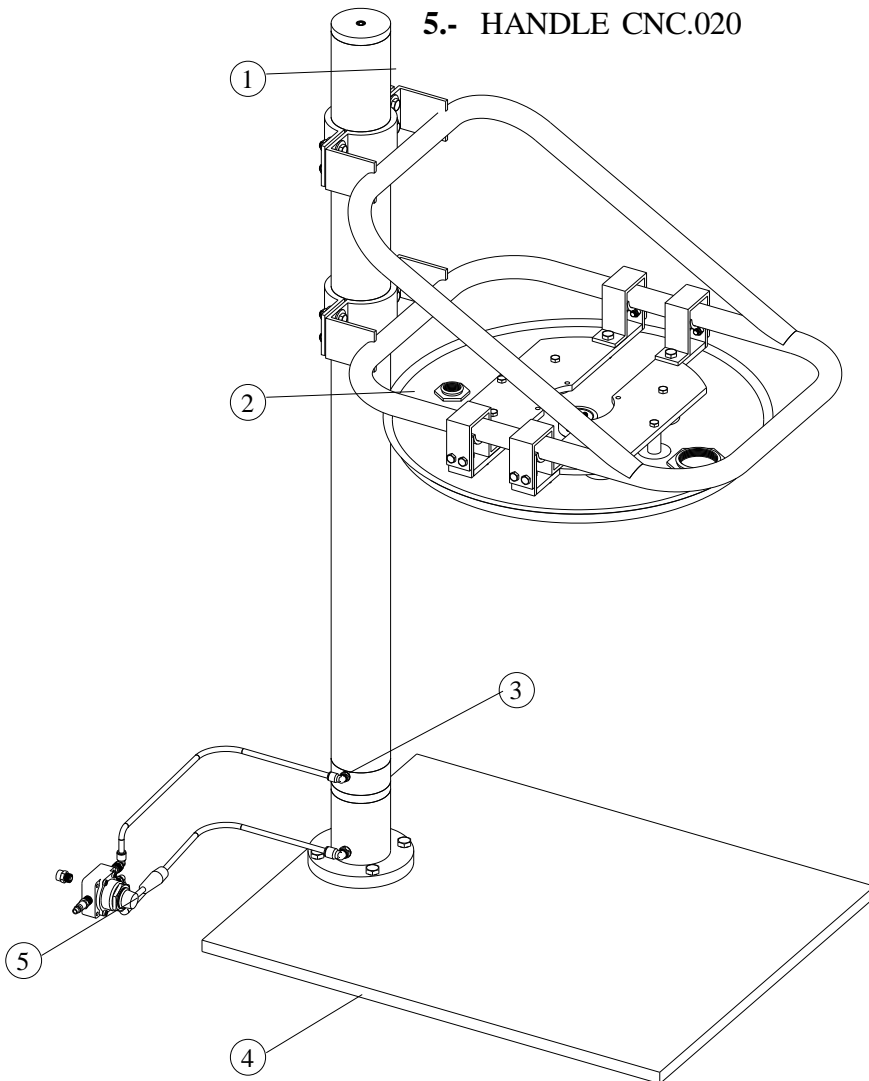
- Poor ventilation, poor grounding or a spark can create a dangerous situation, causing fires or explosions.
- Ground equipment and conductive objects in work area. See grounding instructions.
- If there is static sparking or you feel a shock, stop operation and do not use the equipment again until you identify and correct the cause.
- Use the equipment in well ventilated area.
- Keep the work area free o debris, including solvent, rags and gasoline.
- Do not smoke in the work area
- Keep a fire extinguisher in the work area.



### **MOVING PARTS HAZARD**

- Moving parts can pinch or amputate fingers and other body parts.
- Keep clear of moving parts
- Do not operate equipment without protective guards or covers removed.
- Before checking, moving, or servicing equipment, follow the pressure relief procedure.

- 1.- PNEUMATIC ELEVATOR
- 2.- COVER FOR JERRY CANS OF 200 LITERS
- 3.- ENTRY OF AIR CONTROL GROUND
- 4.- SUPPORT FOR JERRY CANS OF 200 LITERS
- 5.- HANDLE CNC.020



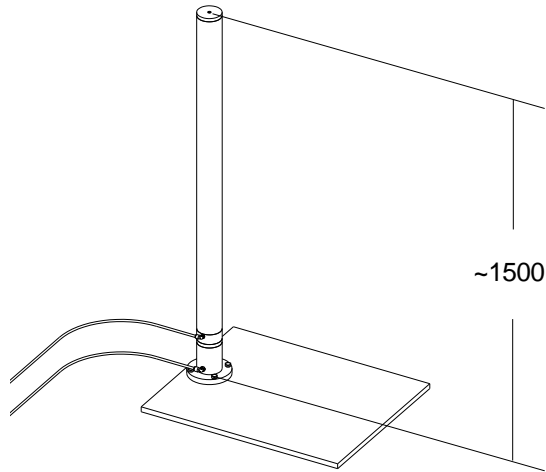
(fig.1)



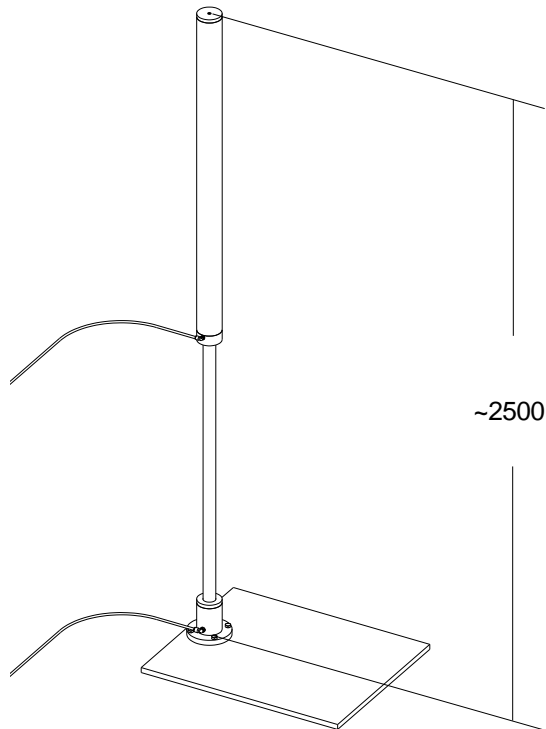
## WARNING

Install the elevator of sure form to prevent movement during operation.

- 1.- When the installation is made, you must be sure that the operator will have easy access to the air control group.
- 2.- Verify that there is enough space above the elevator so that it can reach its maximum height (approximately 2'5 meters).
- 3.- Make sure the four screws, at the base of the elevator, are tightened.
- 4.- Level the base of the elevator using wedges
- 5.- The air inlet hose can not be less than 8mm of diameter.
- 6.- The regulator of the air group has to be closed. (To close the regulator, the control has to be in the middle).
- 7.- Make sure the hose of entry and exit of air, on the elevator, are connected.
- 8.- Open the valve of entry of air and the elevator will be raised to its maximum height (1052mm).



(fig.2)



(fig.3)

It is necessary to adjust the elevator because the cover must be subject to the jerry cans.

9.- Place the jerry can without the cover on the base, centred and as close as possible to the elevator, in order to regulate the position of the cover.

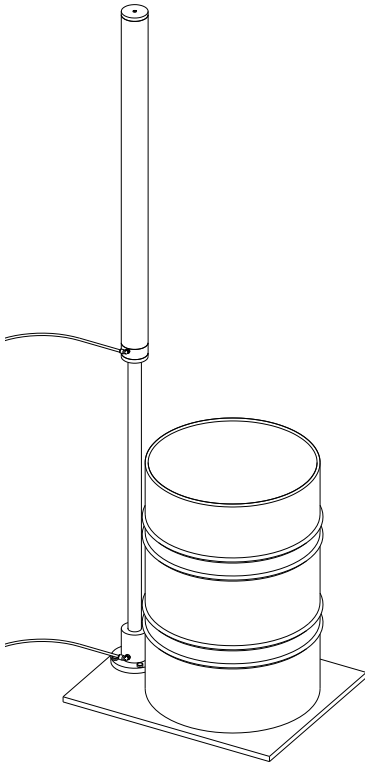
10.- Descend the elevator until its lowest point.

11.- Put the cover on the jerry can.

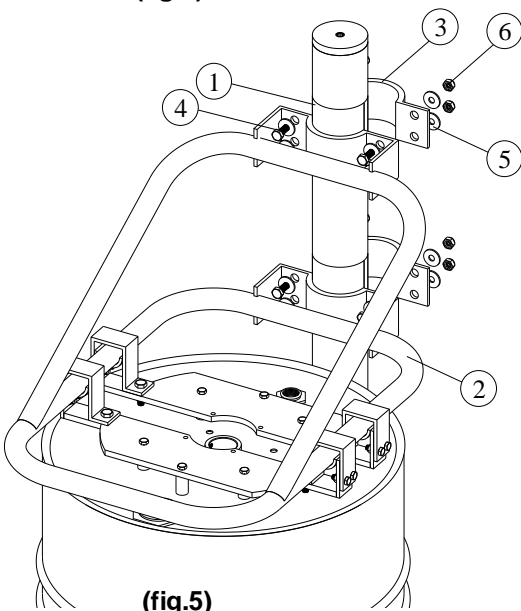
12.- Place the joint (n° 1) outside of the cylinder before attaching the front clamp (n°2) and the rear clamp (n°3). After placing the two clamps are tied with the help of screws (n°4), nuts (n°6) and washers (n°5) as shown in the figure 5 but without tighten.

13.- The cover must rest on the jerry can, so the elevator is raised from 5 to 7 mm and supports the cover on the jerry can. Finally the screws and nuts must be tightened.

14.- Before raising the elevator, check that all parts and connections are tight.

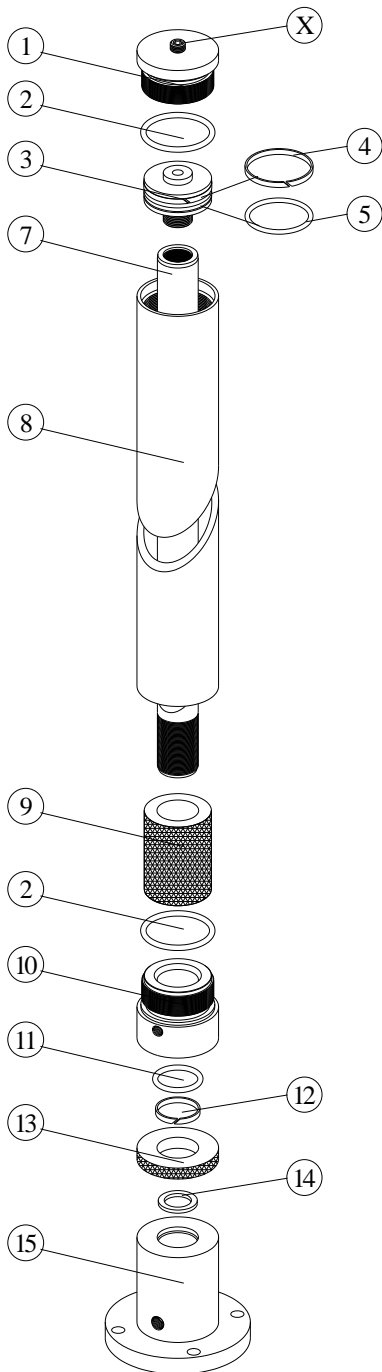


(fig.4)



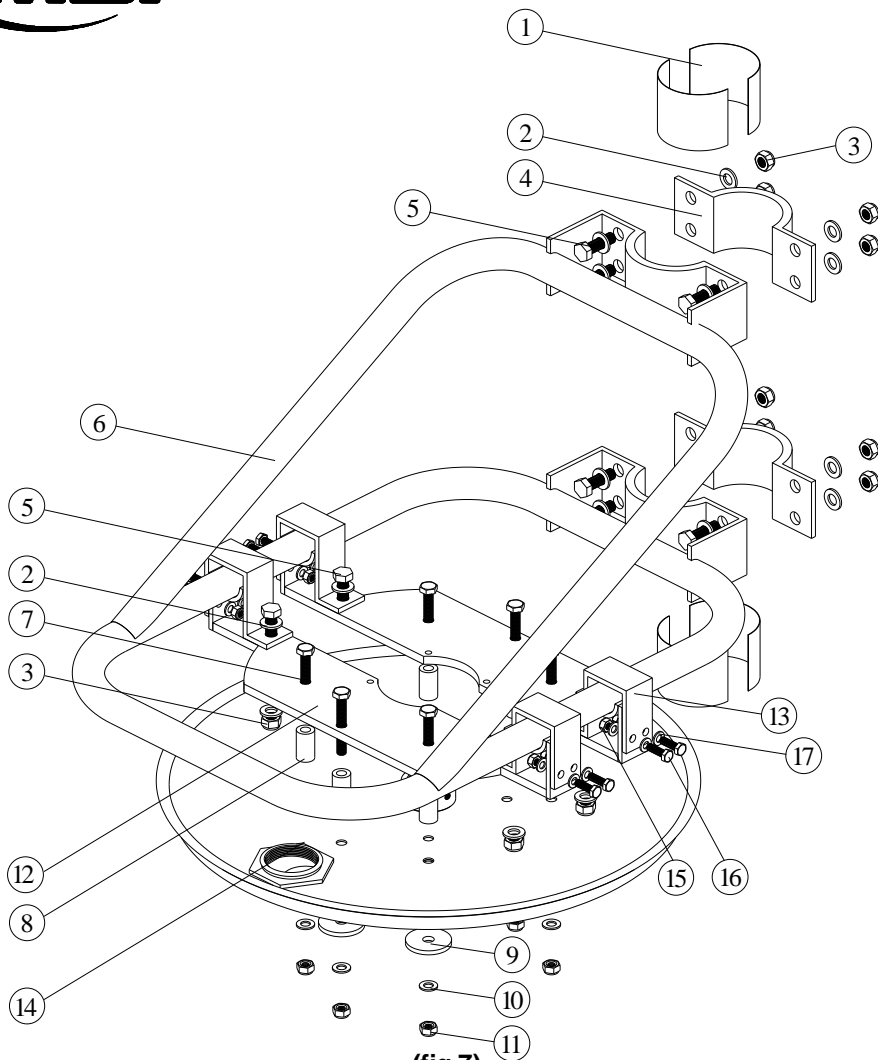
(fig.5)





N°	REF.	DESCRIPTION	Q
1	140.200.01	COVER	1
2	CJT.067	O-RING	2
3	140.230.03	PISTON	1
4	140.230.01	GUIDE	1
5	CJT.068	O-RING	1
7	140.230.02	TUBE	1
8	140.230.07	CYLINDER	1
9	140.230.06	LIMIT	1
10	140.200.03	SHAFT GUIDE	1
11	CJT.069	O-RING	1
12	140.240.02	GUIDE	1
13	140.240.03	LIMIT	1
14	140.240.04	JOINT	1
15	140.240.01	DOWNER BODY	1
X	CTF.001	SCREW-PLUG	1

(fig.6)



(fig.7)

N°	REF.	DESCRIPTION	Q
1	140.100.01	JOINT	4
2	CAR.025	WASHER	24
3	CTU.108	NUT	12
4	140.100.02	LLAMP	2
5	CTA.020	SCREW	12
6	140.320.01	LLAMP WELDED	1
7	CTA.902	SCREW	6
8	140.100.03	TUBE	6
9	140.100.04	WASHER	6

N°	REF.	DESCRIPTION	Q
10	CAR.005	WASHER	6
11	CTU.101	NUT	6
12	140.310.01	SUPPORT	2
13	140.310.02	SUPPORT WELDED	4
14	140.330.00	COVER	1
15	CTU.106	NUT	8
16	CTA.001	SCREW	8
17	CAR.006	WASHER	16



## WARNING

To reduce the risk of accidents, cut the air supply and release the pressure of the elevator before starting to maintenance is necessary.

### NOTE:

The air, which enters the elevator, must be clean and lubricated.

- 1.- The pneumatic elevator must be lubricated so that the o-rings are damaged as little as possible. To do it only must release the plug (N°. X) and pour a few drops of oil inside.
- 2.- To change the o-ring (N°. 5) and guide (N°. 4) first unscrew the shaft guide (N°. 10) of cylinder (N°. 8), followed the cylinder (N°. 8) is slid, taking care to avoid damaging the tube (N°. 7).
- 3.- To change the o-ring (N°.11) and the guide (N°.12), unscrew the tube (N°. 7) of the lower body (N°. 15) is necessary.

### NOTE:

Always that the tube (N°. 7) and the lower body (N°. 15) are unscrewed, the joint (N°.14) must be change.

## CHANGE JERRY CAN



## WARNING

While the elevator is moving there to take your hands away from the cover and rim of the jerry can.

- 1.- Raise the elevator to its maximum height.
- 2.- Remove the empty jerry can.
- 3.- Place the filled jerry can on the base, close to the elevator.
- 4.- Open the jerry can.

### NOTE:

If the new jerry can has different measures, the position of the cover must to be readjusted.

### NOTE:

If there is an agitator or other device at the cover, check that they do not hit the bottom of the jerry can, because they can be damaged.



## WARNING

To reduce the risk of accidents, cut the air supply and release the pressure of the elevator before starting to maintenance is necessary.

PROBLEM	CAUSE	SOLUTION
The elevator does not go up, nor go down.	Air control group is closed or air line is clogged.	Open or clean.
	Air pressure is insufficient.	Increase pressure.
	The o-rings are damaged.	Change o-ring.
The elevator is moving too fast.	Pressure too high.	Reduce pressure.
Air leaks in the pneumatic cylinder.	The o-rings are damaged or loose shaft guides.	Change the o-rings. Tighten the shaft guides n°1, and n°10 (fig.6).



## TECHNICAL DATA

The pneumatic elevator EN-4, with a single column, allows a quick change of jerry can.

### TECHNICAL DATA:

Working air pressure .....4,5 bar

Air supply inlet ..... 1/4 Gas

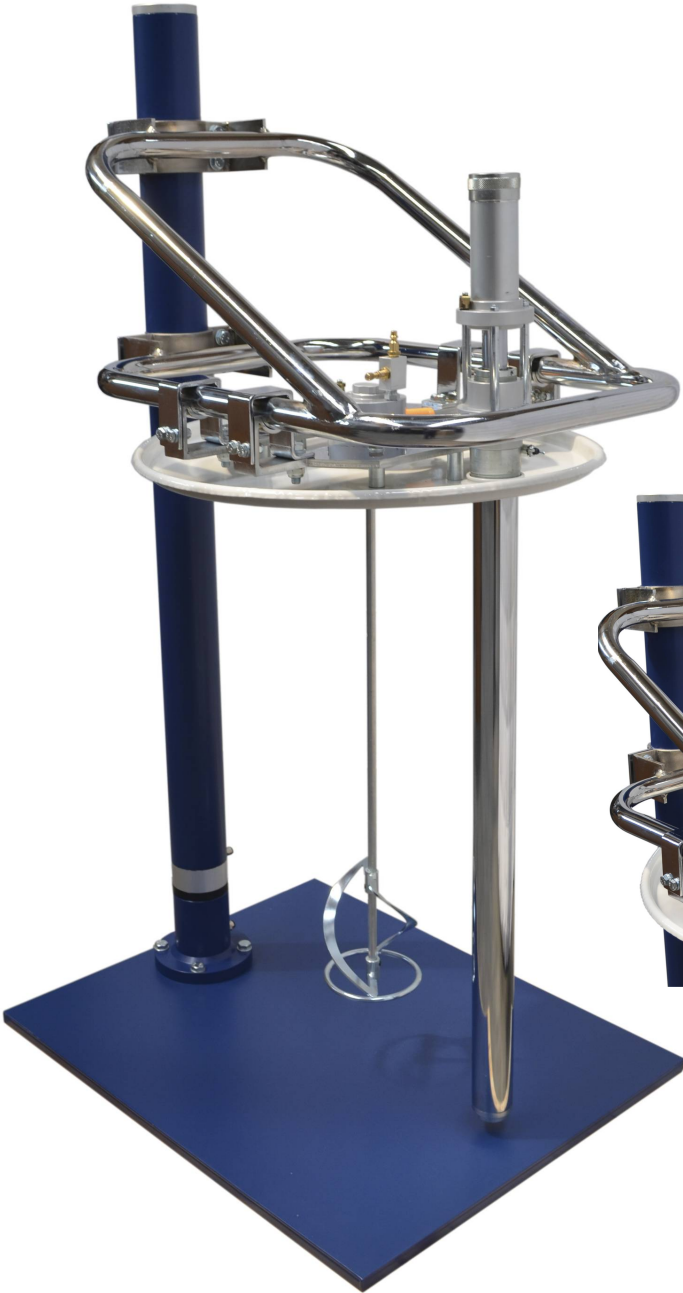
Weight .....18 Kg.

Dimensions .....800 X 650X 2500

Diameter of the pneumatic cylinder .....70 mm

Haul of the pneumatic cylinder .....1052 mm

The cover, to Jerry cans of 200 liters, is prepared to dock an agitator and/or a transfer pump (DP100 or PAT).



# WARRANTY

M.B.P., will any repairs necessary during the first 12 months after purchase of a new unit, with the exceptions shown under 1 and 2 below, and under the conditions shown in item 3.

- 1.-Damage caused by external abuse, customer negligence, or failure to operate the unit in accordance with the instructions supplied with the unit.
- 2.-Normal maintenance items.
- 3.-Within the first 12 months after purchase, M.B.P. will pay 100% of the cost of covered repairs.

In no case will M.B.P. liability extend beyond repair or replacement of the equipment. Such liability is limited to the amount of the original purchase price paid for the unit, minus a reasonable deduction for the time the unit has been in service. It is the responsibility of the purchaser under this warranty to ship or deliver the failed paint sprayer to the authorized service center at the purchaser's expense. Parts or components covered under this warranty may either be repaired or replaced at M.B.P. option.

Equipent not covered by M.B.P. warranty. Accessories or components of equipment sold by M.B.P. that are nort manufactured by M.B.P. are subject to the warranty, if any, of their manufacturer. M.B.P. will provide purchaser with reasonable assistance in making such claims.

The Industry Department of The Basque Government, states that all electric and pneumatic airless equipment manufacture by M.B.P. S.L., follows the "CE" standards under the number 83/392/CEE.

