

## 1 IDENTIFICATION OF MACHINE COMPONENTS

- A) PUMP
- B) GAUGE
- C) PISTON
- D) PRESSING PLATE
- E) CAGE
- F) TILLER FOR MOVEMENT
- L) COLUMN LOCK
- M) COLUMN RETURN SPRINGS
- N) COLUMN

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## 2 SAFETY STANDARDS AND PRELIMINARY INSTRUCTIONS

Improper use and incorrect maintenance can cause damage to persons or property. To prevent possible accidents, comply strictly with these safety standards.

- a) **INSTRUCTIONS:** only use the machine after reading this booklet which, in the event of loss, can be requested from: Zambelli Enotech srl – Via dell'Artigianato / 36043 Camisano Vicentino (VI)
- b) **USE:** do not allow children, unauthorized persons or those without sufficient knowledge of its use to utilise the press.
- c) **MOVEMENT:** this is very simple; models D.40, D.50 and D.60 are provided with two wheels, while model D.70 has four wheels; this allows rapid and effortless positioning of all press models.

It is very important for presses to be moved on flat ground and not on slopes or uneven ground as, due to their structure, this operation would be extremely dangerous. During movement there must be no-one in the handling area. Always ensure that the column locks (fig. 4, components L) are in the locked position both in the pressing phase and during movement.

## 3 START UP USER MANUAL

- a) **POSITIONING:** the machine must be used on a flat surface; other positions may cause it to overturn or may be dangerous.

### b) **LOADING THE PRODUCT TO BE PRESSED**

- 1 Raise the column locks (Fig. 3 component L). Mod. D.70 has a safety screw which must be removed before they can be raised.
- 2 Bend the column (component N Fig. 3) towards the tiller of the press.
- 3 Fill the cage with pomace to be pressed; it is essential to distribute the product evenly for correct press operation.
- 4 Upon termination of this operation return the column (component N Fig. 3) to the starting position and lock it with the column locks (components L Fig. 4) (in Mod. D.70 insert and tighten the safety bolt).

### c) **STARTING TO PRESS**

- 1 Turn the knob (1 Fig. 2) located on the pump clockwise and start pumping with the specific lever (3 Fig. 2); the piston will start to descend. Continue until reaching 350 ATM indicated on the gauge (2 Fig.2), then stop pumping (otherwise the safety valve will be triggered) and wait for the must to filter from the pomace, which will cause the pressure to drop. After the pressure has dropped considerably, start to press (pumping) again until reaching 350 ATM once more and continue with this procedure until no more must is delivered and the pressure remains constant at 350 ATM.

At this point turn the knob (1 Fig. 2) counter-clockwise. As soon as it starts to turn the pressure will drop to "0 ATM"; continue to turn the knob counter-clockwise until it stops, then start to pump with the lever 3 until the piston returns fully inside the chamber.

### d) **UNLOADING THE PRESSED PRODUCT**

- 1 Remove the locks "L" (Fig.3) that hold the column vertical and bend it.
- 2 Open the cage using the hooks and remove the two half-cages.
- 3 Remove the pressed product.
- 4 Replace the 2 half cages and insert the hooks.
- 5 Straighten the column (N Fig.1) and lock it with the column locks (L Fig.1).

A new pressing cycle can now be started.

## 4) **NORMAL MAINTENANCE**

The Tico press does not require any special maintenance; nonetheless, careful cleaning using warm water and mild, non-toxic detergents is recommended before use. This operation must also be performed carefully before using the machine for the first time.

It is advisable to store the Tico press, when not in use, with the piston inside the chamber.

If you have any complaints please contact your supplier or the manufacturer.

**The Tico Manuale does not require CE marking according to the regulations EU 392 and subsequent amendments 91/368 – 393/44 – 93/68, as the only source of power used is human strength.**

**According to the Pressure Equipment Directive PED 97/32 032 we do not require to provide marking as we come under article 3.3 of the directive.**

## 5 **TROUBLESHOOTING**

- a) The pump is running idle (no oil is drawn up)
- b) The pump is running but there is no piston movement

### **REMEDIES**

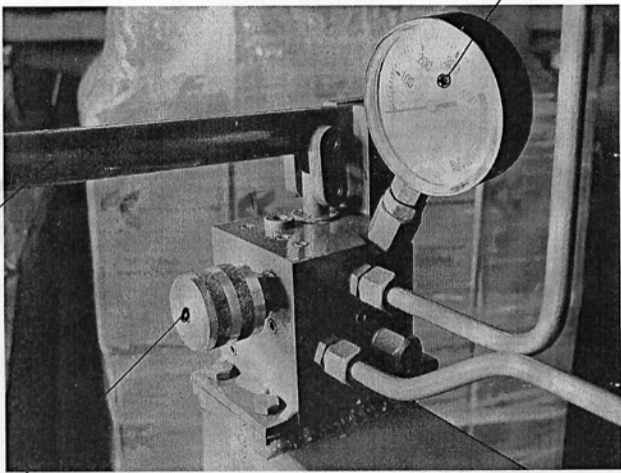
- a) Completely remove the cap of the pumping valve (part 91 Pump component diagram). Pump (3-4 times) until oil spills out. Replace and tighten the valve cap.
- b) Check that the knob (part 46 Pump component diagram) is tightened clockwise for descent of the piston or counter-clockwise for its ascent.

After a lengthy period of disuse, the ball bearings inside the pump may stick. To solve this problem we recommend removing the plunger (part 24 Pump component diagram) by first removing the pin (part 12 Pump component diagram); next add a little hydraulic oil to the pumping chamber and insert the plunger to the initial position; start pumping and if necessary strike the pump body 2-3 times with a rubber mallet to create internal vibrations to help the ball bearings to loosen.



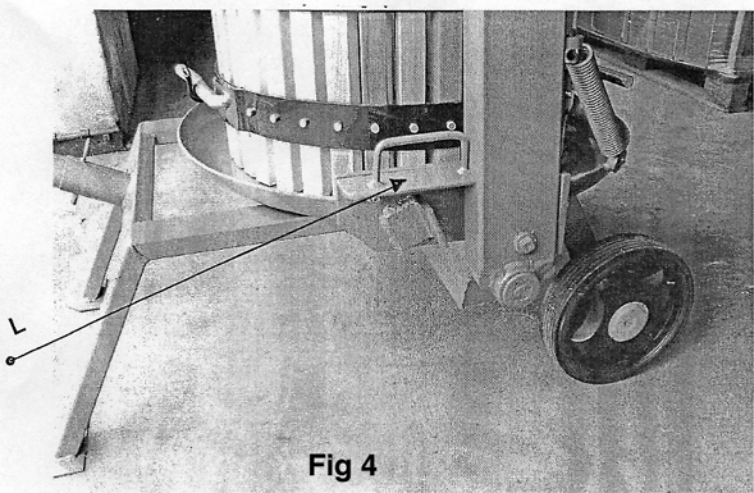
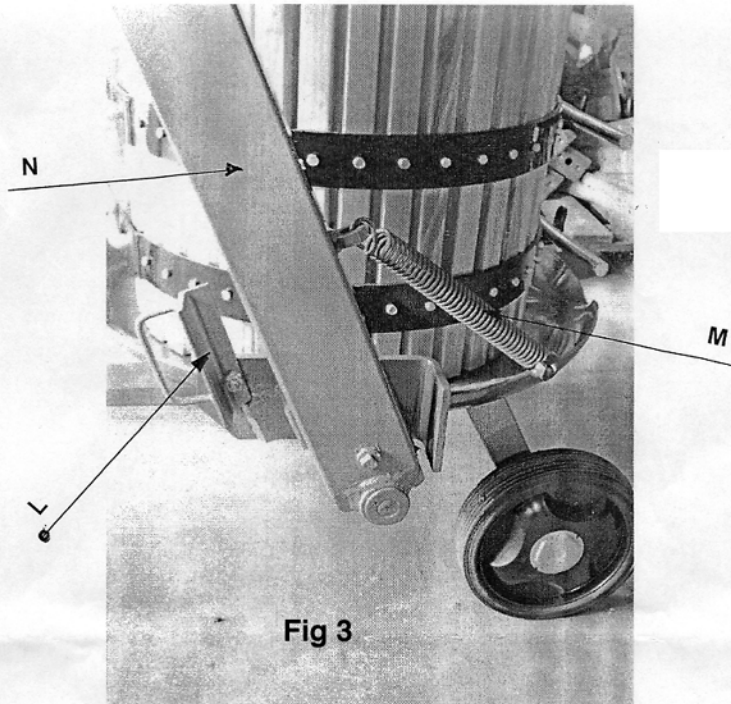
Fig. 2

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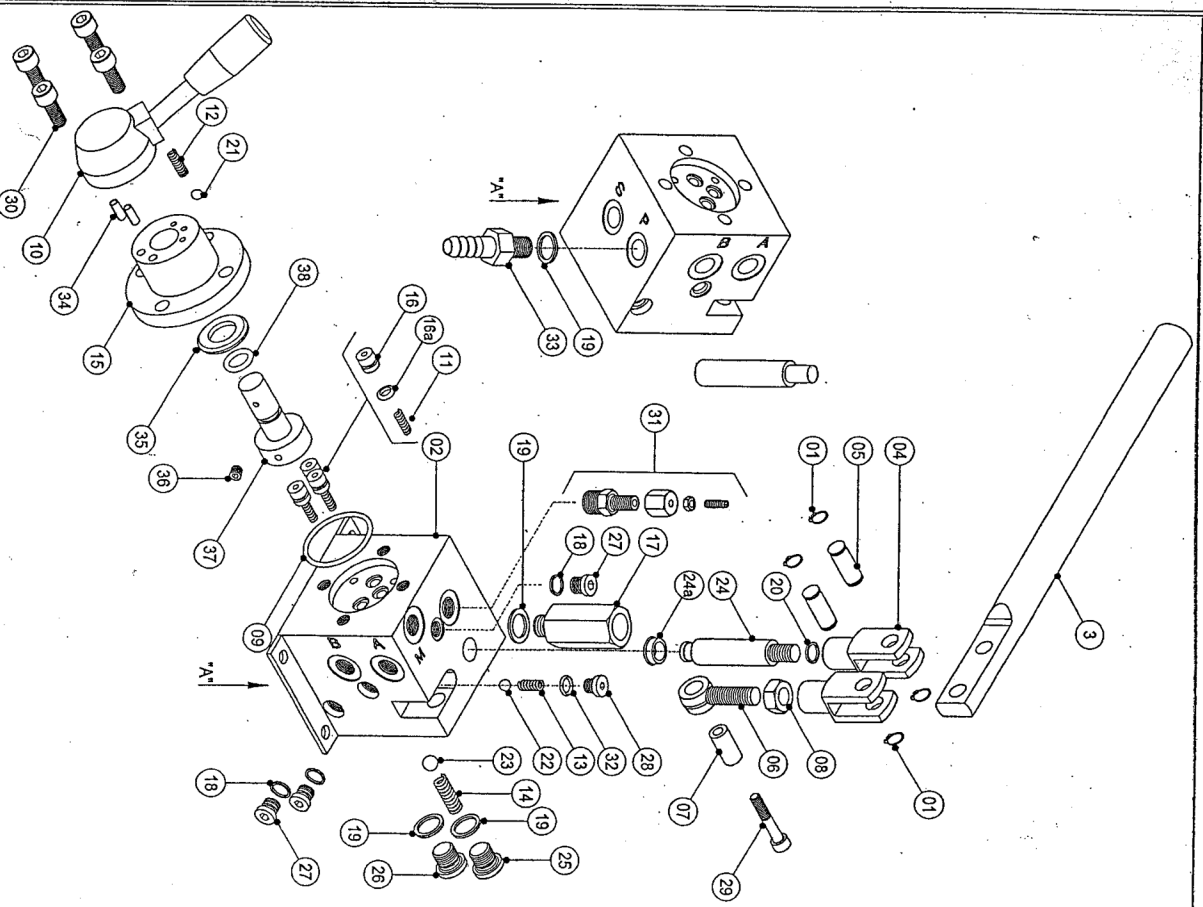
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# MANUAL PUMPS COMPONENTS

POS.	DESCRIPTION	QUANTITY
1	SECURITY RING E DIN 471 010	4
2	BL. INTEGR.ACC.	1
3	INOX LEVER	1
4	FORKS HOLE THREAD M.10 UNI1676 TROPIC	2
5	PIVOT FOR FORKS M10 ISO 8CETOP TROPIC	2
6	TIE ROD M10X50 UNI 6058 F.D.10	1
7	BUSH DIAM.10X28	1
8	NUT 6S UNI5688 PG 10 TROP.	1
9	O-RING 3150-12B	1
10	KNOB LBR 45/110A-15	1
11	SPRING M034	3
12	SPRING M041	1
13	SPRING M084	1
14	SPRING M085	1
15	PISTON RACK DM4	1
16	PISTON DM4 DIAM.10	3
16A	GASKET	3
17	COLUMN CONNECTION	1
18	COPPER WASHER DIAM.8X12X1,5	3
19	COPPER WASHER 1/4" DIAM.13,5X19X1,5	4
20	ALUMINIUM 1/8" DIAM.10X16X1,6	1
21	SPHERE DEGREE "AA" 7/32 DIAM.5,55	1
22	SPHERE DEGREE "AA" 1/4" DIAM. 6,35	1
23	SPHERE DEGREE "AA" 11/32 DIAM. 8,73	1
24	SHUTTLE PM	1
24A	WASHER	1
25	CAP LITTLE COLLAR 1/4" X PM	1
26	CAP DIN 908 5,8 1/4" TROP.	1
27	CAP DIN 908 5,8 8X1 TROP.	3
28	CAP DIN 908 5,8 8X1 TROP.	1
29	SCREW 8,8 UNI 5931 M6X35 GALVANIZED	1
30	SCREW 8,8 UNI 5931 M8X20 GALVANISED	4
31	VL5C03A 360 BAR	1
32	O-RING 2021-009	1
33	HOSE TAIL 1/4"	1
34	ELASTIC PIN	2
35	ROLLER BEARING	1
36	GRAIN M6X8	1
37	PISTON	1
38	O-RING	1



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