



HYDRAULICS

COLUMN PRESS 60 ton WITH ELECTRIC PUMP “EE06018-CE”



Abdex Hydraulics - Victoria

27 Metcalf Street,
Dandenong South, VIC. 3175

Tel: (03) 9796 3744

Email: sales@abdexhydraulics.com.au

Abdex Hydraulics - Perth

260 Allen Road,
Forrestdale, WA. 6112

Tel: (08) 9418 4988

Email: sales@abdexhydraulics.com.au

Abdex Hydraulics - Queensland

8/315 Archerfield Road
Richlands, QLD. 4077.

Tel: (03) 9796 3744

Email: sales@abdexhydraulics.com.au

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ANNEX




GENERAL DRAWING

1. BEFORE USING THE EQUIPMENT.


Before unpacking the equipment check for:

1. Oil leaks, sign of corrosion.
2. Damages in the hydraulic cylinder or line.
3. Damages in the frame and the accessories.
4. Damages or lack of screws and connections.
5. Bad connection of accessories.

If you observe any fault or damage in the equipment, avoid its use and store it in a safety place until be repaired by an authorized service dealer.

 **Never use damaged or bad condition equipment.**

Familiarize the operators with the equipment before using the machine. Read and observe exactly the instructions and the recommendations included in packaging. Any inadequate use of the equipment not observed in the present manual or the omission of this one, may cause serious personal and material damages, which LARZEP, S.A. will not be responsible in any case.

 **Do not loose the instruction manual.**

Do not work with the equipment near of the flames, explosives, heat sources or any other source that may produce fire or cause damages in the equipment. The equipment must not be exposed to temperatures greater than 60° C in use as in storage.



If you are using a pump or cylinder with the press, assure that you are having a good combination before making the assemble. We recommended asking professional advice to our technicians.

When you have located a good place for the press, assure that it is in solid and flat ground; all the base of the press must be supported. If there is any doubt about the stability, it is recommended distributing the weight in a bigger area placing a steel flat under the base of the press.

Store the press with the piston fully retracted. We recommended protecting the cylinder with a plastic or locating the press in a clean place not to damage the components and in order to have the press correctly storage.

2. TECHNICAL FEATURES.

HYDRAULIC CYLINDER

MODEL	EE06018-CE
Max. Pushing Capacity (ton)	60
Working Pressure (Kg/cm ²)	700
Hydraulic Stroke (mm)	180
Effective area (cm ²)	86, 59
Oil capacity (cm ²)	1.558, 6
Extension speed, without load (mm/sg)	5, 7
Extension speed at 700 Kgr/cm ²	1

ELECTRIC PUMP REF. HAM7244

MODEL	HAM7244
Oil tank capacity	5 Litres
Low pressure oil flow. Rapid advance	4 l/min
High pressure oil flow. Working	0,36 l/min
Maximum working pressure	700 bar (Kg/cm ²)
Maximum pressure in retraction	100 bar (Kg/cm ²)
Distribution valve	Hand: 4 way/ 3 position
Motor	0, 75 kW 400V 50Hz 3 ph

FRAME: Welded-Mechanized frame, mobile table and anchor bolt system.

MODEL	EE06018-CE
Max. working height (mm)	935
Min. Working height (mm)	110
Sequence of table positioning (mm)	165
Working width (mm)	860
Total weight (Kg)	470

3. ESSENTIAL SAFETY REQUIREMENTS.



Due to the functional reasons, "dangerous area" is considered to be the space between the columns, the table and the hydraulic cylinder piston. Due to the material pressed, "dangerous area" is supposed to be the surrounding area to the machine in case of metal parts being ejected during pressing.

The speed of the hydraulic cylinder during its extension is less than 30 mm/second. Therefore the machine should be considered by the application of ANNEX V of the Declaration of CE Conformity.

Operators standing in the dangerous area around the machine should protect their faces and feet from metal pieces being ejected during pressing.



Used materials and components are not for the health and safety of operators. The electric pump contains hydraulic oil type ISO: HV46



In any case, the hydraulic oil is toxic if it takes contact in the bloodstream, so that NEVER PLACE THE FINGERS OVER ANY HOLE THAT MAY CAUSE A FILTRATION.

- ❖ The start and stop operations of the motor are made with the commands of IP55 electric box. The commands are supplied with a 24 V. tension.
- ❖ The advance and return movements of the cylinders are made by the hand lever located in the pump. This lever actuates over a directional valve.
- ❖ The command have not maintaining action device due to the kind of operation that the equipment makes, the operator sometimes must place its hands over the material to be treated. So that it forces to the operator to know the inherent risks and operating of the equipment.
- ❖ The starting up of the motor is carried out by the green push button located on the electric box.
- ❖ The rest of operating devices are activated manually from the directional valve on the cover of the pump.
- ❖ To get cylinder movements, it is necessary to push the green button.
- ❖ The red emergency push button stops the machine completely, in a safe way. To re-start it is necessary to unblock the emergency button.
- ❖ It can be stopped too from the remote control
- ❖ If you stop pressing the green push button, the motor stops and with it the cylinder movements.
- ❖ The machine is equipped with the fuse and a thermo-magnetic switch for its protection.
- ❖ The machine is equipped with supporting plates in the columns for a perfect stability. The machine gets operated without fixing onto the floor, but it is strongly recommended to do it by drilling the plates in the place of your choice.
- ❖ The construction of machine has been calculated to bear without any breaking under conditions of foreseen utilization and for the whole life of the machine.
- ❖ The hydraulic components have been designed and calculated in compliance with the ANSI B30.1
- ❖ It is operator's responsibility to wear special protective clothes and attachments in both feet and face to prevent any damage as a result of accidental fallings and breakings of metal pieces under operation or machine components in touch.
- ❖ Risks due to surfaces, bends and angles: The frame of the machine does not cause to be dangerous in that sense.
 - **Risk due to mobile components in setup stage:** The table can be positioned in several fixing points.(weight of the table 21,5 Kg). The EE06018 model is provided with a winch for the displacement of the table. It is operator's responsibility to wear safety shoes in any case. There are 2 axle pins in equivalent holes of the lowest position to prevent operator's feet from being caught by the table.
 - **Risk due to mobile components during service:** The operator must either move the directional valve lever to "C" position or press the red button to fully stop the movement of the piston.

SAFETY PREVENTIVE ACTIONS AGAINST OTHER RISKS

- ❖ Risk due to power supply: The machine is equipped with the fuse and a thermo-magnetic switch for its protection.
- ❖ Risk due to hydraulic power: The hydraulic pump is equipped with an internal security valve in the tank, out of operator's control and rated at 700 Kgr/cm², as well as with a pressure relief valve on the tank cover adjustable by the operator from 0 to 700 Kgr/cm². The hydraulic cylinder is also furnished with a pressure relief valve, rated at 700 Kgr/cm², which prevents the retraction chamber of the cylinder from overpressures in case of obstruction of the return way.
- ❖ All the maintenance operations must be performed while the machine is stopped, thus avoiding this way any potentially dangerous situation.
- ❖ A poor maintenance program of the press does not increase the risk, but obviously will revert in a lower performance.
- ❖ The hydraulic pump is mounted in the frame and access is very easy. To disassemble the pump, unscrew the bolts in the tap cover. In order to disassemble the cylinder it is required to first disassemble the piping.
- ❖ Isolation of the power supply: Release the terminal wiring to disconnect the power supply. Previously you should unplug the pin.
- ❖ Handling by the operator: The machine is designed to assure that all maintenance tasks are performed by the operator in an easy and safe way. All the components that would require any maintenance operation are easy accessible.
- ❖ In the valve, you can find several marks depending on the position of the lever:
 - "A" for extension of the cylinder piston.
 - "B" for holding the pressure without piston movement.
 - "C" for retraction of the cylinder piston.

The press, the cylinder and the electric pump have their corresponding serial numbers marked on them. In addition to it, you can find an sticker label showing the commercial reference, capacity, working pressure, name and address of the manufacturer.

4. TRANSPORT AND INSTALLATION.

The machine is delivered properly packed in a wooden pallet. For its handling, it is recommended to use a forklift truck or a crane. In the last case, it is necessary to make the slings trespass the arc of the frame. When doing this operation, you should be cautious and prevent the flexible hoses and coupling from any damage.



The machine is stable enough to operate without fixing, but if it is placed in an area commonly operated by mobile machinery (cranes, lifting equipment...) it is strongly recommended to fix it to the desired place by drilling the supporting plates.

ELECTRIC CONNECTIONS

- ❖ Bear in mind the voltage indicated in the motor.
- ❖ Make sure that the directional valve is in "C" position (neutral). Make sure that the motor is rotating in the direction indicated by the arrow. In the opposite case, change the position of the cables and terminals of the motor. The last operation must be performed with the machine disconnected.

REPLACEMENT OF THE TRANSPORT CAP

You should replace the a.m. cap on the tank cover by the pressurized cap supplied with the press (in the small plastic bag next to the lever of the distributor).

INSTALLING THE GAUGE

- ❖ Replace the threaded tap in the top of the cylinder by the gauge which is supplied separately. Tighten the gauge cone to the gauge adaptor seat by using a flat wrench size 22. Hold the gauge screen by hand during threading process and after reaching a comfortable reading position set the gauge screen free so that it turns the last quarter solidarily with the thread.
- ❖ There is an alternative gauge port in the electric pump with a 3/8" BSP thread.

CHECKING THE RIGHT OPERATION OF ALL DEVICES AND MECHANISM

1. Turn the lever of the pump direction valve to "C" position.
2. Turn the main switch to 1.
3. Press the start button (green) for a instantaneous current.
4. Verify the rotation direction of the motor.
5. If the direction is opposite to the indicated in the motor, you should reverse the electric phases of the power supply. When doing this, machine should be unplugged.
6. Turn the pump direction valve lever to "A" position. Pushing de green button constantly, the piston should move forwards (extension). Check the extension speed and maximum stroke.
7. Once the piston is fully extended run the pump to increase the pressure. Check the working pressure in the gauge. Verify that there are no oil leaks in the connections, gauge, etc.
8. Turn the direction valve lever to "C" position to check that the pressure in the cylinder does not drop.
9. Turn the direction valve lever to "B" and push the green button to retract the piston. Check the retraction speed.
10. Test the emergency button. Unblock it and with de motor stopped, turn the directional valve lever "A" to "B" to depressurize the cylinder. Turn the lever to "C" position and turn "0" the main switch.

Once all the steps have been completed, the machine is ready to be used. Repeat the sequence as many times as required to get the knowledge on how to work the machine.

5. START-UP.

Operate the machine as per the preciously mentioned indications.

Repositioning the table height

Models EE06018

Choose the right height. Lift the table rotating the lever of the winch until you are able to extract the pin bearings. Place the table in an upper level than the desired height. Place the pin bearings in the desired position. Descend the table by means of the winch until the table stands in the pins without any tension in the winch cable.



VERY IMPORTANT WARNING: THE TABLE POSSITIONING SYSTEM IS NOT CONCEIVED TO BEAR THE FORCE THE CYLINDER CAN DEVELOP. IT MUST BE USED JUST TO POSSITION THE TABLE.

Regulation of the maximum working pressure

- ❖ The maximum pressure developed by the hydraulic system is 700 Kgr/cm². An internal security valve discharges when the system reaches that pressure. In order to operate at a lower working pressure, you should proceed like follows:
- ❖ You can find the pressure regulation screw on the tank cover. Loosen the nut lock and unscrew the regulation screw. Check gradually the pressure with the gauge and after reaching the required pressure tight again the nut lock to prevent the system from undesired vibrations.

6. MAINTENANCE.

- ❖ The hydraulic circuit of the press is closed, so in normal conditions no oil leakage should be coming up.
- ❖ In case of oil leakage, after the proper repairing work, you should fill up the tank with hydraulic oil by **LARZEP (Ref: AZ8902)**. The electric pump is equipped with an oil level indicator to control the need quantity of oil.
- ❖ As far as a non-continuous use of the press is concerned (1 hour per day), oil replacement should be done once a year. To empty the tank, you should remove the cover and take the oil out to another container. Please, bear in mind the existing rules for water processing when handling the used oil.
- ❖ Keep greasy and lubricated the pin bearings, the piston and in general all the parts that might be in friction.

	SYMPTONS	POSSIBLE CAUSE	SOLUTIONS
1	Piston dos not extend	1.1 Prime less pump	1.1 Maintain the pump on for some minutes in "C" position.
		1.2 Filter is dirty.	1.2 Remove and clean it properly.
		1.3 Not enough oil in the tank	1.3 Check the oil level.
		1.4 Pressure retainer damaged.	1.4 Replace the retainer.
		1.5 Cylinder body damaged.	1.4 Repair the cylinder body.
		1.6 Distribution valve damaged.	1.5 Repair the valve.
		1.7 Electric problem	1.7 Check the installation
2	Cylinder does not reach pressure.	2.1 Internal valve unrated	2.1 Rate again the valve.
		2.2 Pressure retainer damaged.	2.2 Replace the retainer.
		2.3 Cylinder body damaged.	2.3 Repair the cylinder body.
3	Cylinder does not hold pressure.	3.1 Pressure retainer damaged.	3.1 Replace the retainer.
		3.2 Distribution valve damaged	3.2 Repair the valve.
4	Cylinder does not retract.	4.1 Pressure retainer damaged.	4.1 Replace the retainer.
		4.2 Distribution valve damaged.	4.2 Repair the valve.

Solutions written in bold face should be done by specially trained staff.

7. WARRANTY.

LARZEP, S.A. guarantees its products against all design and manufacturing defects for the durations of two years from the date of purchase. This guarantee does not include the ordinary wear of both metal and non-metal parts, abuse, using the equipment beyond its rated capacity and any wear or damage incurred as a result of using a hydraulic fluid which is not recommended by **LARZEP, S.A.**

Please note that if the equipment is disassembled or serviced by anyone other than an authorized service dealer or by **LARZEP, S.A.**, this guarantee is rendered null and void.

In the event of a warranty claim, return the equipment, to **LARZEP, S.A.** or the authorized dealer which sold you the hydraulic equipment, **LARZEP, S.A.** will repair or replace the faulty equipment, whichever is deemed most appropriate. **LARZEP, S.A.** shall not be held liable for any consequential damages or losses, which may occur as a result of faulty equipment .

8. DECLARATION OF CONFORMITY.

DECLARACION DE CONFORMIDAD

LARZEP, S.A.
Dirección: Avda. Urtiaga, 6
48269 Mallabia ESPAÑA

Declaramos bajo nuestra exclusiva responsabilidad la conformidad de los productos a los que refiere esta declaración, con las disposiciones de la directiva:
89/392/CEE, 91/368/CEE, 93/44/CEE, 93/68/CEE, 98/37/CEE

E

DECLARATION OF CONFORMITE

Nous, LARZEP, S.A.
Adresse: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Déclarons sous notre seule responsabilité que les produits auxquels se réfère cette déclaration sont conformes aux dispositions des Directives:
89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC

F

DECLARAÇÃO DE CONFORMIDADE

Nós, LARZEP, S.A.
Endereço: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Declaramos, sob nossa única responsabilidade, que os seguintes produtos, incluídos nesta declaração estão em conformidade com o disposto na Directiva:
89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC

P

ÖVERENSSTEMMELSESERKLÄRING

Vi, LARZEP, S.A.
Adresse: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Erklærer på eget ansvar, at følgende produkter som er omfattet af denne erklæringen, er i overensstemmelse med bestemmelsene i Direktiv:
89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC

DK

ERKLÆRING OM OVERENSSTEMMELSE

Vi, LARZEP, S.A.
Adresse: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Erklærer på eget ansvar, at følgende produkter som dekkes af denne erklæring, er i overensstemmelse med bestemmelsene i Direktiv:
89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC

N

ÜBEREINSTIMMUNG-SERKLÄRUNG

Wir, LARZEP, S.A.
Anschrift: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Erklären auf eigene Verantwortung, daß folgende Produkte, auf die sich diese Erklärung bezieht, mit den Bedingungen der Direktiven 89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC übereinstimmen.

D

Tipo, Type, Typ, Tyypki.

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DDR / Z / ZR / W / X / YA / YG / YZ / HM / HE / HG / HZ / HS / WI / CK / CC / CN / FU / FV
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EZ / CA / CS**

Mallabia, ESPAÑA 2005 / 04 / 27

Lugar y fecha, place and date, lieu et date, plats och datum, paikka ja päivämäärä, udstedelsessted og-dato, ort und datum, plaats en datum, local e data, luogo e data.

DECLARATION OF CONFORMITY

We, LARZEP, S.A.
Address: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Declare under our sole responsibility that the following products to which this declaration relates conform with the provisions of Directives:
89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC

GB

DICHIARAZIONE DI CONFORMITÀ

Noi, LARZEP, S.A.
Indirizzo: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Dichiariamo sotto la nostra esclusiva responsabilità che i prodotti ai quali questa dichiarazione si riferisce sono conformi quanto previsto dalle Direttive:
89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC

I

VAATIMUSTEMUKAISUUSVAKUUTUS.

Me, LARZEP, S.A.
Osoite: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Vakuutamme yksinomaan omalla vastuullamme, että seuraavat tuotteet, joihin tämä vakuutus liittyy, ovat seuraavien Direktiivien vaatimusten mukaisia:
89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC

FIN

VERKLARINGVAN OVEREENKOMST.

Wij, LARZEP, S.A.
Adres: Avda. Urtiaga, 6
48269 Mallabia SPAIN

Verklaren geheel onder eigen verantwoordelijkheid dat de volgende producten, waarop deze verklaring heeft in overeenstemming zijn met de bepalingen van Richtlijn:
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NL

FÖRSÄKRAN OM ÖVERESSTÄMMELSE

Vi, LARZEP, S.A.
Adress: Avda. Urtiaga, 6
48269 Mallabia SPAIN

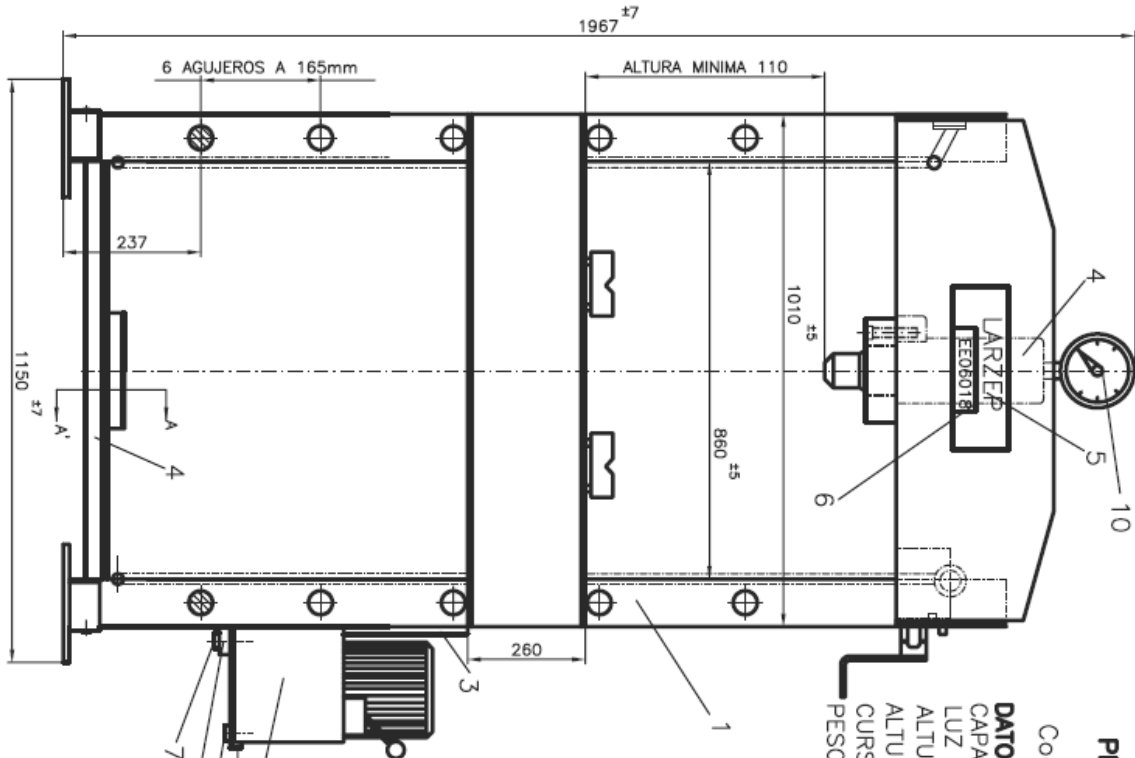
Försäkrar under eget ansvar att följande produkter som omfattas av denna försäkran är i överensstämmelse med villkoren i Direktiv:
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S

LARZEP, S.A.

Nombre y firma, name and signature, nom et signature, namn och underskrift, nimi ja nimikirjoitus, navn og underskrift, name und underskrift, naam en handtekening, nome e assinatura, nome e firma.

Instruction Manual
Column Press with Electric Pump "EE06018-CE"



PRENSA HIDRAULICA DE COLUMNA

Codigo estructura: **EE06018**

DATOS DE LA PRENSA:

- CAPACIDAD 60 Tm
- LUZ ENTRE COLUMNAS 860 mm
- ALTURA MINIMA TRABAJO 110 mm
- ALTURA MAXIMA TRABAJO 940 mm
- CURSO HIDRAULICO: 180 mm
- PESO 426 Kg

N	DENOMINACION	CODIGO	N Piezas
1	ESTRUCTURA	25A0004	1
2	ELECTROBOMBA	YAMS344	1
3	TUBO ESTIR..51-35 D-10*5	04C0043	3,7 m
4	CILINDRO	D06018	1
5	PEGATINA LARZEP	30A0049	1
6	ETIQUETA ADHESIVA	30A0054	1
7	TUERCA M10	14B0007	2
8	ARANDELA Ø10	14C0002	4
9	RACORD EN L	15J0012	2
10	MANOMETRO	AY06010	1
11	PLATAFORMA	24K0026	1
12	TORNILLO M10x25	14A0019	2
13	TORNILLO M10x15	14A0036	2

