



HYDRAULIC CUTTER “CK0230”



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ANNEX

❖ GENERAL DRAWING

1. SAFETY ESSENTIAL REQUIREMENTS.

The **LARZEP** hydraulic cutters have been designed in accordance with our Quality Standards and under the control described by the ISO 9001 rules.



Bearing the above in mind, obviously the use of the cutter must be done as per the relevant instructions described in the manual. The user must be aware of the inherent risks when handling high pressure hydraulic devices, command properly the working operation and instruct accordingly the staff staying in the nearby area to the tool.

The tool is only designed for the operations described in this. No other uses are foreseen and therefore the manufacturer will not feel responsible for any damages caused by a wrong operation of the tool.

Hydraulic equipment can be used with such little effort that it is often easy to forget the magnitudes of force involved. As a complement to the instruction manual, the user should be trained as far as the machine operation and the corresponding safety and technical rules are concerned, such as those about prevention of accidents and protection of environment. **The operators must wear protective clothes like helmet, glasses, gloves, boots and others.**



Helmet



Glasses



Gloves



Boots

In order to prevent any personal or material damage, the operator should be duly trained in the working operation and apply the relevant safety actions.

Whenever the tool is operated, the steps described in the paragraph “START UP” of this manual should be followed.

Any modification on the tool or replacement of components affecting the general safety should be avoided without the previous authorisation by the manufacturer.

Any repairing and maintaining operation, etc. should be done only by specialised staff and with original spare parts **LARZEP**.

If it is used, replace the hydraulic hoses periodically even if at first sight that don't show any damage or fault.

Effect the suggested maintenance operations periodically as per this manual

After operation, the tool should be clean and store fully retracted in a safe and clean place.



Check that both the tool and the accessories have not experienced any damage during transportation, handling or installation. Ensure that all the components of the hydraulic system can support the maximum pressure.

Operate the tool in properly light powered areas.



Limit a maximum value of 80% of nominal capacity in continuous operation.



Do not expose the tool to intense heat, such as when welding.

Effect the maintenance operations at no pressure and disconnected.

Do not overpass the nominal capacity of the machine. Use indicators and devices to be aware of the working pressure.

All commands should be operated by hand. Do not use any tools or levers for that purpose.

After operation, clean and store them in the box.

• For kits, cutter + pump

Make sure about the perfect cleaning of coupling and accessories. Dirty couplings are difficult to connect and might cause dust and other dirty materials to penetrate into the hydraulic circuit

When using electric pump, make sure that the distributor valve is in neutral position when plugging the pump.

Ensure that heavy or sharp objects do not fall or are placed on the hose.

Do not pressurize the hose by pumping against the coupling, before connecting pump and tool.

The choice of pumping system (hand, air-driven, petrol powered or electric) depends upon the application; ensure that the reservoir contains at least 25% more oil than required to fill both the cutter and connected hoses.

2. TECHNICAL SPECIFICATIONS.

Model: CK 0230

MODEL	CK0230
Push capacity (700 kg/cm²)	345 kN
Stroke	30 mm
Effective area	50,2 cm ²
Oil capacity	150,8 cm ³
Weight	16 kg

- ❖ Double acting
- ❖ Balls half-quick male coupler
- ❖ Handle.
- ❖ Interchangeable blade

PERFORMANCE

Minimum diameter: 5 mm

MODEL	CK0230
Strength kg/mm ²	Diameter mm
70	30
100	25
140	20
160	17

CHAIN

MODEL		CK0230
Strength	Standard	Chain Diameter max. mm
28-43-50	DIN 766 - DIN 762	30
60-80	DIN 766 - DIN 762	20

3. START UP.

1. Assemble the complete system, and make sure about the perfect fitting of pump, hose, coupler and tool. This is a double acting tool, so both couplers must be connected.
2. Make sure about the knowledge of pump chosen and who it work.
3. Test the circuit, pumping oil into the tool. Check the tool at maximum pressure, working the piston against the limit of stroke and return the blade. Repeat this operation to get used to the circuit. The maximum operating pressure of the tool is 700 bar. Do never exceed under any circumstance this limit.
4. Insert the chain link or bar in the gap between blades (max. 30 mm.).
5. **Centre the material to be cut in the gap and look for the alignment with the tool.**
6. Actuate the pump until the material is broken. Return the movable blade by switching the valve to return position.

4. MAINTENANCE.

REPLACEMENT OF BLADES

- Fixed blade:
Loosen the screw (10), and push the blade with a nail through the head hole. Remove the damaged blade, put a new one and tighten the screw (10).
- Movable blade:
Dismantle the screws (8), at the both side, and unscrew the body from the head.
Next step, dismantle the piston, and unscrew the bolt (9), to get the blade free.
Put a new one and proceed opposite way to mount back again, controlling the position of the flat side of the piston.
The screws (8) work like the piston guide. Lock the screws leaving an enough gap for a well work of the spring.

REPLACEMENT OF SEALS

After dismantle the piston, unscrew the stop ring (14), and pull out the piston from the body. Replace the seal and segment for the new ones. Do not use sharp edged tools. Use spare parts from LARZEP.
Take this opportunity to change all the seals in case they look damaged.
To mount back again, proceed opposite way.

5. 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

6. 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 CONFORMITY**

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**ÖVERENSSTEMMELSEERKLÄRING**

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 bestemmelserne i Direktiv:
89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC

DK**ERKLÄRING OM ÖVERENSSTEMMELSE**

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

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

N**ÜBEREINSTIMMUNGSERKLÄRUNG**

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, Tyypit.

**SM / SH / SP / SMP / SX / SMX / ST / STX / SL / SMA / SHA / SSR / T / TE / TD / D / DH /
DDR / Z / ZR / W / X / YA / YG / YZ / HM / HE / HG / HZ / HS / WI / CK / CC / CN / FU / FV /
FZ / FA / CY / AA / AU / CT / C / KC**

**A / AB / AC / BL / B / AF / F / HN / DLG / DL / DP / VA / VB / VC / VZ / EC / EE / EG / EM /
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**VERKLARING VAN 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:
89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC

NL**FÖRSÄKRAN OM ÖVERESSTÄMMELSE**

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

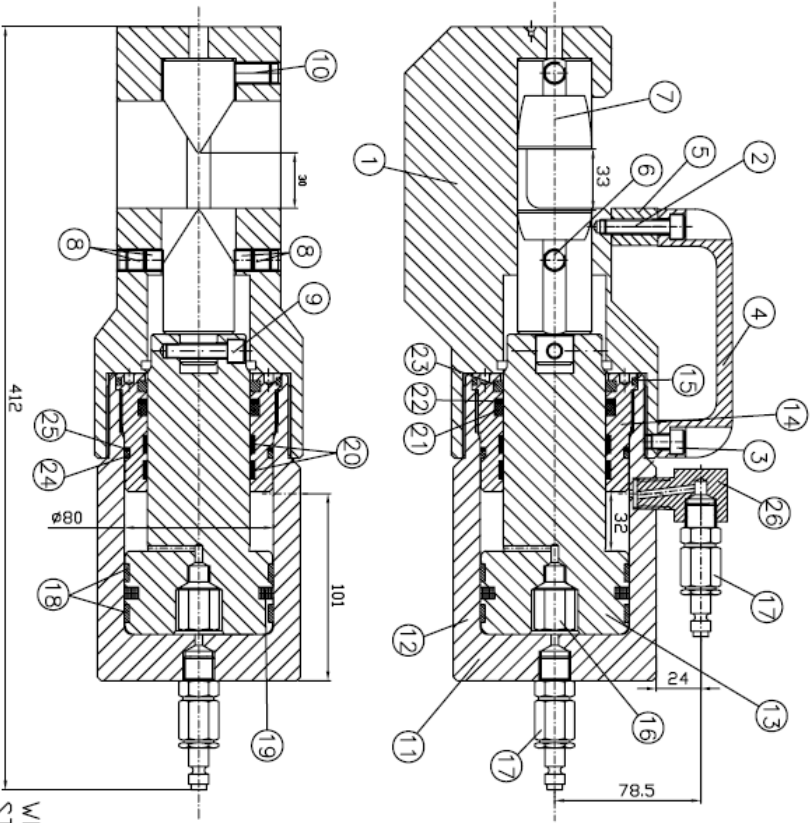
Försäkrar under eget ansvar att följande produkter som omfattas av denna försäkran är i överensstämmelse med villkoren i Direktiv:
89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC, 98/37/EEC

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.

MODEL	CAPACITY	LENGTH	WEIGHT	CHAIN	STRENGTH BY GRADES	STANDARDS	BAR	STRENGTH
CK0230	345 kN	360 mm.	16 Kg	Ø max. 30 Ø max. 20	28-43-50 60-80	ASTM-A130IN 5884 DIN 5885/DIN 764 DIN 766, DIN 782	30 25 20 17	70 100 140 180



WORKING CAPACITY: 350 kN
STROKE: 30 mm
DIL. CAPACITY: 150.8 cm³
SECTION: 50.26 cm²
WORKING PRESSURE: 700 bar
Nº DE PROYECTO: 11200

* SPARE PART LIST

N	DESCRIPTION	CODE	N PARTS
1	SADDLE	5600005	1
2	ALLEN SCREW M8x35	14A0477	1
3	ALLEN SCREW M8x10	14A0478	1
4	TECHNODIN HANDLE 1157 13 200	33C0011	1
5	FLANGE TILE COLLAR	1590095	1
6	FIXED BLADE	CRK30/2	1
7	MOBILE BLADE	CRK30/1	1
8	ALLEN STUD M14x12 DM-913	14F0075	4
9	ALLEN SCREW M8x30	14A0474	1
10	ALLEN STUD M14x20 DM-913	14F0076	1
11	DOUBLE ACTING CYLINDER	DD3403	1

* SPARE PART LIST

N	DESCRIPTION	REFERENCE	CODE	N PARTS
12	BODY	52F0417	1	1
13	PISTON	53F0540	1	1
14	GUIDE	55F0241	1	1
15	O-RING Ø82, 14x3,5,3	12A0030	1	1
16	SECURITY VALVE RATED 350Kg/cm ²	17C0001	1	1
17	WAF BALL VALVE CONTROL WITH 3/8"IN	A23321	2	2
18	GUIDE RING Ø80xØ75xØ9,7	GP6900800-C380 58F0197	2	2
19	PISTON JOINT Ø80xØ64,5xØ6,3	PT0300800-146N 12B0314	1	1
20	GUIDE RING Ø85xØ80x7	GR8900550-C380 58F0254	2	2
21	COLLAR Ø55xØ65x7,3	B3 55x3 P5008	12B0458	1
22	SEGMENT	W0200050-W1403 57A0019	1	1
23	SCRAPER Ø55xØ65x6	W0200050-W1403 12H0157	1	1
24	O-RING Ø73,02x3,5,3	12A0396	1	1
25	SEGMENT	57A0565	1	1
26	CONNECTOR	A21511	1	1

Author	VERSION	Se han modificado la referencia de los tornillos segun N.I.2282	14-6-06
ENENO URAIN	1		FECHA
Ref. Material	DESIGNACION:	MODIFICACIONES	
7-2-06	CORTADORA		
Dimensiones en Bruto	Fecha		
	7-2-06		
Peso en Bruto	Dureza	Resistencia	Kg/mm ²
	Escala	Directorio	
	1:1		
Tolerancias para las dimensiones en indicacion en el dibujo			
AGUJEROS: H8 - E8,3 H7 - E7,5 H6 - E6,3 H5 - E5,0 H4 - E4,0 H3 - E3,0 H2 - E2,0 H1 - E1,5			
Rozas: g6 - e6,3 g5 - e5,0 g4 - e4,0 g3 - e3,0 g2 - e2,0 g1 - e1,5			
Módulos: M2 - E2,0 M3 - E2,5 M4 - E3,0 M5 - E3,5 M6 - E4,0 M8 - E5,0 M10 - E6,0 M12 - E7,0 M16 - E9,0 M20 - E11,0 M25 - E14,0 M30 - E17,0 M40 - E22,0 M50 - E28,0 M60 - E34,0 M80 - E43,0 M100 - E54,0			
Módulos: M2 - E2,0 M3 - E2,5 M4 - E3,0 M5 - E3,5 M6 - E4,0 M8 - E5,0 M10 - E6,0 M12 - E7,0 M16 - E9,0 M20 - E11,0 M25 - E14,0 M30 - E17,0 M40 - E22,0 M50 - E28,0 M60 - E34,0 M80 - E43,0 M100 - E54,0			