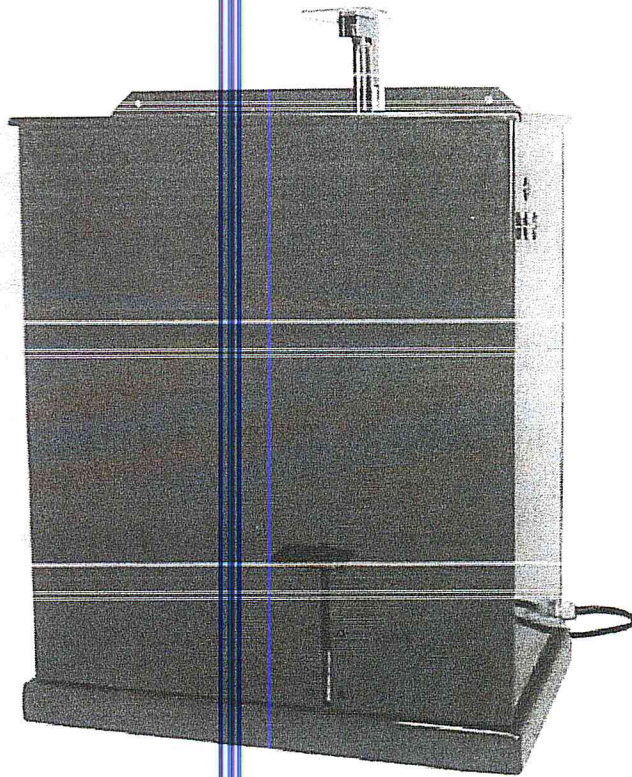




USER'S MANUAL

CM 70 F2, CM 100 F
CUTTING MACHINE



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OPERATION DEVICES

- ① Hose controller
- ② Hose guide
- ③ Hose adjustors
- ④ Start button
- ⑤ Stop button
- ⑥ Food pedal



TECHNICAL DETAILS

Dimensions	CM 70 F2	CM 100 F
Width (mm)	730	730
Depth (mm)	470	470
Height (mm)	900	900
Weight (Kg)	90	112
Blade diameter (mm)	250	300
Max. hose diameter (mm)	70	100
Blade speed (r/min)	3000	3000
Motor (kW)	2.2	4
Voltage (V)	380	380

INSTALLATION AND INTRODUCTION

1. FLOOR INSTALLATION

- ⇒ Leave at least 0,5 metres of free space behind the machine for service purposes.
- ⇒ Attach the rubber feet (4pcs) to the screw holes on the bottom in order to get the machine stand firmly in an upright position.
- ⇒ Install the hose guides (2pcs) on top of the machine. You can attach them either to the left or right side of the cutting blade.
- ⇒ Attach the adjusters (2pcs) on top of the machine, the way that both adjusters are as far from the cutting blade as possible.

2. ROTATION DIRECTION

- ⇒ Start the engine by pushing the start button (4), make sure that the blade rotates clockwise, if not, switch the cables **L1** and **L2**.

HOSE ADJUSTMENT

- ⇒ Adjust the wanted cutting angle of the hose with the help of the adjusters; the thicker the hose is, the further from the blade should be the adjusters.

NOTE! BOTH ADJUSTORS ALWAYS MUST BE KEPT AT THE SAME DISTANCE TO THE BLADE.



HOSE CUTTING

- ⇒ Start the engine; be aware of the rotating blade.
- ⇒ Set the hose against the hose guide and check that the hose is vertical to the blade.
- ⇒ Carry out the cutting by holding the hose with both hands from outside the adjustors and by pushing the foot pedal.
- ⇒ Don't cut the hose too fast in order to avoid stressing the engine and the blade too much.

You get the best cutting results by steady, strong enough cutting speed and by doing so, your **CM 70 F2 CUTTING MACHINE** will last longer without unnecessary repairing.

SERVICE

- ⇒ Cutting the hose causes an easily flammable mixture of waste rubber and oil. That's why it is important to clean the machine from the inside regularly.
- ⇒ Open the back cover and do the cleaning.
- ⇒ Check the condition of the blade and if it has been damaged replace it immediately.

Electrical Diagram

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CM 70 F2

Varaosaluettelo - Spare parts - Pieces détachées - Ersatzteile

Viite Ref. Ref. Ref.	Til no. Order number Ref. Commande Bestell Nr.	Kpl Pieces Nombre d'unité Anzahl	Nimitys Description	Description Name
1	05000022	1	Terä Blade	Lame Blatt
2	03408025	2	Ruuvi Screw	Vis Schraube
3	04308000	2	Aluslevy Washer	Rondelle Scheibe
4	03408030	1	Ruuvi Screw	Vis Schraube
5	04308000	1	Aluslevy Washer	Rondelle Scheibe
6	09000030	1	Laippa Flange	Bride Flansch
7	09000031	1	Laippa Flange	Bride Flansch
8	03408055	4	Ruuvi Screw	Vis Schraube
9	04308000	4	Aluslevy Washer	Rondelle Scheibe
10	06000044	1	Sähkökotelo El. Equipment	Equipement elec. El. Ausrüstung
11	04105000	4	Mutteri Nut	Ecrou Mutter
12	03705012	4	Ruuvi Screw	Vis Schraube
13	10000021	1	Kotelo Box	Boite Gehäuse
14	10000022	1	Kansi Plate	Plaque Platte
15	03408025	4	Ruuvi Screw	Vis Schraube
16	04308000	4	Aluslevy Washer	Rondelle Scheibe
17	08000005	1	Moottori Motor	Moteur Motor
18	09000032	2	Väliholkki Distance bushing	Douille Distanzbuchse



19	09000033	2	Väliholkki Distance bushing	Douille Distanzbuchse
20	10000023	1	Säätölatta Fitting plate	Plaque de fixation Passblech
21	04108000	2	Mutteri Nut	Ecrou Mutter
22	10000024	1	Säätölatta Fitting plate	Plaque de fixation Passblech
23	03300003	2	Ruuvi Screw	Vis Schraube
24	04310000	2	Aluslevy Washer	Rondelle Scheibe
25	03410025	2	Ruuvi Screw	Vis Schraube
26	10000025	2	Latta Plate	Plaque Blech
27	10000026	1	Kotelo Box	Boîte Gehäuse
28	03806020	7	Ruuvi Screw	Vis Schraube
29	05000023	4	Säätöruuvi Fitting screw	Vis ajustable Passschraube
30	04106000	7	Mutteri Nut	Ecrou Mutter
32	11000006	1	Liukupala Bearing plate	Plaque fendue Lagerblech
33	04104000	2	Mutteri Nut	Ecrou Mutter



CM 100 F

Varaosaluettelo - Spare parts - Pieces détachées - Ersatzteile

Viite Ref. Ref. Ref.	Til no. Order number Ref. Commande Bestell Nr.	Kpl Pieces Nombre d'unité Anzahl	Nimitys Description	Description Name
1	05000028	1	Terä Blade	Lame Blatt
2	03408030	2	Ruuvi Screw	Vis Schraube
3	04310000	2	Aluslevy Washer	Rondelle Scheibe
4	03410060	1	Ruuvi Screw	Vis Schraube
5	04310000	1	Aluslevy Washer	Rondelle Scheibe
6	09000034	1	Laippa Flange	Bride Flansch
7	09000036	1	Laippa Flange	Bride Flansch
8	03412030	4	Ruuvi Screw	Vis Schraube
9	04312000	4	Aluslevy Washer	Rondelle Scheibe
10	06000045	1	Sähkökotelo El.Equipment	Equipement élec. El.Ausrüstung
11	04105000	4	Mutteri Nut	Ecrou Mutter
12	03705012	4	Ruuvi Screw	Vis Schraube
13	10000021	1	Kotelo Box	Boite Gehäuse
14	10000022	1	Kansi Plate	Plaque Platte
15	03408025	4	Ruuvi Screw	Vis Schraube
16	04308000	4	Aluslevy Washer	Rondelle Scheibe
17	08000006	1	Moottori Motor	Moteur Motor
18	-	-	-	-

19	-	-	-	-
20	-	-	-	-
21	04108000	2	Mutteri Nut	Ecrou Mutter
22	10000024	1	Säätölatta Fitting plate	Plaque de fixation Passblech
23	03408060	2	Ruuvi Screw	Vis Schraube
24	04310000	2	Aluslevy Washer	Rondelle Scheibe
25	03410025	2	Ruuvi Screw	Vis Schraube
26	10000025	2	Latta Plate	Plaque Blech
27	10000026	1	Kotelo Box	Boite Gehäuse
28	03806020	7	Ruuvi Screw	Vis Schraube
29	05000023	4	Säätöruuvi Fitting screw	Vis réglable Passschraube
30	04106000	7	Mutteri Nut	Ecrou Mutter
31				
32	11000006	1	Liukupala Bearing plate	Plaque fendue Lagerblech
33	04104000	2	Mutteri Nut	Ecrou Mutter

D-HYDRO⁰Y

D-HYDRO[®]





CM 70 F2/CM 100 F

Varaosaluettelo - Spare parts - Pieces détachées - Ersatzteile

Viite Ref. Ref. Ref.	Til no. Order number Ref. Commande Bestell Nr.	Kpl Pieces Nombre d'unitée Anzahl	Nimitys Description	Description Name
1	3506020	4	Ruuvi Screw	Vis Schraube
2	10000027	1	Kansi Plate	Plaque Platte
3	11000007	3	Suoja Cover	Capot Schutz
4	10000028	1	Painin Boom	Sonneur Arm
5	04208000	1	Mutteri Nut	Ecrou Mutter
6	04208000	1	Mutteri Nut	Ecrou Mutter
7	03506020	2	Ruuvi Screw	Vis Schraube
8	04105000	2	Mutteri Nut	Ecrou Mutter
9	03205020	2	Ruuvi Screw	Vis Schraube
10	03408025	2	Ruuvi Screw	Vis Schraube
11	04108000	2	Mutteri Nut	Ecrou Mutter
12	10000029	1	Poljin Pedal	Pédale Pedal
13	03408040	1	Ruuvi Screw	Vis Schraube
14	09000034	1	Holkki Bushing	Douille Büchse
15	09000034	1	Holkki Bushing	Douille Büchse
16	03408040	1	Ruuvi Screw	Vis Schraube
17	10000030	1	Kannatin Console	Console Träger
18	05000024	2	Jousi Spring	Ressort Feder



**DECLARATION OF CONFORMITY
VAATIMUSTENMUKAISUUSVAKUUTUS
ÜBEREINSTIMMUNGSERKLÄRUNG
DICHIARAZIONE DI CONFORMITA
DECLARACIÓN DE CONFORMIDAD**

Manufacturer / Valmistaja / Hersteller / Construttore:

**D-Hydro Oy
Wahlforssinkatu 10
FIN-80100 JOENSUU, Finland**

Declares, that the machine indicated below conforms to all its parts to:

Vakuuttaa, että alla esitetty laite kaikkine osineen täyttää:

Erklärt, dass untergenannte Maschine in allen Einzelheiten übereinstimmt:

Si dichiara che la macchina sottoindicata è conforme, in tutte le sue parti:

Declara que la máquina que abajo se indica es conforme en todas sus partes a:

Model / Malli / Modell / Modello:

CM 100 F

Serial nr / Sarjanro / Fabr.n / No Serie:

92673317

Year of construction / Valmistusvuosi

Baujahr / Anno di costrui / Año de fabricación

2017

The directives issued by the Council of the European Communities

Euroopan Yhteisön direktiivit

nach den Richtlinien des Europäischen Gemeinschaftsrates

alle directive del Consiglio delle Comunità europee

Las directivas estipuladas por el Consejo de las Comunidades Europeas

2006/42/EC

And furthermore declares, that the following harmonized standards have been applied:

ja lisäksi vakuuttaa, että seuraavia yhdenmukaistettuja standardeja on sovellettu:

-und den in Einklang stehenden Europäischen Normen

-alle Norme europee armonizzate

Y adicionalmente declara que se han aplicado los siguientes estándares armonizados:

SFS-EN-ISO 12100-1

SFS-EN-ISO 12100-2

Joensuu, Finland, 27/09/2017

D-Hydro Oy

Pentti Pehkonen

Managing director / toimitusjohtaja / Exekutivdirektor / direttore esecutivo / Director Ejecutivo



TEKNINEN KAUPPA

1. SCOPE OF WARRANTY

The Supplier grants a warranty for defects in materials and workmanship for new machinery and equipment in accordance with these General Warranty Terms and Conditions. The Warranty does not, however, apply to defects and items specifically listed in section 8 hereof.

2. COMMENCEMENT OF THE WARRANTY

The Warranty starts on the date when the delivery of the equipment is accepted. The equipment is deemed to be duly delivered when the installation has been carried out to the satisfaction of the Customer or the Customer has placed said piece of equipment in production use. A piece of equipment is deemed to have been placed in production use when said equipment has been duly delivered to the Customer by the Supplier in accordance with the Contract of Sale.

In the absence of any agreement on a specific acceptance test, the Customer is required to carry out an acceptance inspection on the piece of equipment within seven (7) days of the delivery of the equipment by the Supplier in accordance with the Contract of Sale. Any defects or flaws detected in the delivery shall be promptly communicated by the Customer to the Supplier in writing.

3. DURATION OF THE WARRANTY

The Warranty Period shall be the period of time defined by the Supplier unless specifically otherwise indicated. No exceptional warranty periods and terms shall be valid unless duly specified in the Contract of Sale.

If necessary, the Supplier and Customer may agree on a specific warranty applicable to a repair or the spare parts used in such a repair. Unless otherwise agreed, the Supplier will give the repair and the spare parts used in such a repair a warranty of _____ starting on the date when the repaired piece of equipment is handed over to the Customer.

4. WORK COVERED BY THE WARRANTY

Under the Warranty, defects covered by the Warranty and detected during the Warranty Period will be repaired free of charge during normal working hours by the Supplier's repair shop, a repair shop authorized by the Supplier, or at some other location indicated by the Supplier.

5. TERMS OF DELIVERY FOR WARRANTY REPAIRS

The Supplier and Customer will specifically agree on the terms of delivery for the warranty repair. If no such agreement has been made, the delivery term is free ex works at the Supplier's repair shop or an authorized repair shop without packaging.

If the Parties have agreed that the repair will be carried at a location other than the Supplier's repair shop or an authorized repair shop, all the cost of the repair not covered by the Warranty, such as travel and waiting time, daily allowance, cost of travel and the costs incurred as a result of the de-installation and re-installation of the equipment, shall be charged to the Customer at the rates applied by the Supplier in accordance with the then-current price list for maintenance and repairs.

Any original parts replaced under the Warranty shall be the property of the Supplier.

6. PREREQUISITES FOR WARRANTY REPAIRS

Repairs are carried out under the Warranty, provided that :

- a) the defect has appeared in what can be regarded as normal operating conditions;
- b) the installation, operating and maintenance instructions issued by the manufacturer or Supplier have been complied with;
- c) any repairs or servicing carried out on the piece of equipment have been made using original spare parts and supplies;
- d) the warranty repair claim is made by the party ordering the piece of equipment or its representative;
- e) the party ordering the piece of equipment or its representative delivers it to the repair shop promptly as soon as the defect is detected and assumes responsibility for the condition of the piece of equipment until it is handed over for repairs. When the piece of equipment is handed over for repairs, the repair shop must be provided with information indicating the date of delivery, ordering information, identification of the defect and a description of the conditions in which the piece of equipment has been used.

If it is established that the defect or flaw reported by the Customer is not covered by the Warranty, the Supplier shall have the right to charge the cost of troubleshooting to the Customer in accordance with the then-current price list.

7. WARRANTY FOR THE REPAIRED PRODUCT

The warranty for the repaired piece of equipment will be valid until the expiry of the original Warranty Period.

8. LIMITATIONS OF WARRANTY

The Warranty shall not cover:

- a) repair of defects due to normal wear and tear, operating errors, defective or sub-standard servicing carried out by parties other than the Supplier or its authorized representative, operating conditions in violation of the design bases, or defects due to the fact that the Customer has selected a piece of equipment unsuitable or incorrectly sized for the intended use or application;
- b) compensation for direct or indirect loss or damage due to a defective piece of equipment;
- c) repair of defects if repairs or modifications have been made to the piece of equipment by a party other than the Supplier's repair shop or a repair shop authorized by the Supplier;
- d) repair of consumable components of the equipment, such as sensors, indicator lights, connectors, batteries, fuses, conductors, printer heads, hoses, and power transmission belts for which no warranty is granted by the manufacturers.

With regard to software, the license and operating conditions determined by the manufacturer shall apply.

9. SETTLEMENT OF DISPUTES

Any disputes arising out of the Contract of Sale between the Seller and the Customer shall primarily be settled by negotiations between the parties. Unless otherwise agreed, any disputes arising out of this Contract shall be settled finally by one arbiter in accordance with the rules of the Arbitration Committee of the Central Chamber of Commerce.