



Service Manual ILMEG Dust Control System

CDC 2000

CDC 2000

Cuttings container

Radio Remote Control

Control System

Electric System

P/N 22303731

P/N 22301004

P/N 22300298

P/N 22300157

P/N 22302721



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CDC-2000 MKII Serienummer

Customer:

CDC 2000	P/N 22303731
Cuttings container	P/N 22301004
Remote Control	P/N 22300298
Control system	P/N 22300157
Electric system	P/N 22303721

Delivery date :

Serial number:

X-125 nr 1: Serial number:

X-125 nr 2: Serial number:

Control system 1 : Serial number

Control system 2 : Serial number

Fan impeller X-150 för (15 kW elmotor) serie nummer

Electric motor ABB 15 kW, 400 V, 50 Hz,

Compressor: Atlas Copco LE7-10CV TM 90, ITR....., 400 V 50 Hz

Remote Control System 1: DATEK D2012P serial number

Remote Control System 2: DATEK D2012P serial number

1. Introduction

Congratulations to your new ILMEG dry drilling dust control system. This manual is intended to describe the system how to install, operate, service and maintain the system.



The ILMEG system consists of a electrically driven dust collector fan connected to the X-125 filter houses (2x). The system can be used for one rock drill or two rock drills.

Applications are surface drilling, face drilling, bolt hole drilling and extension drilling for production drilling or long hole bolt hole drilling.

At the drill feed front a specially designed cuttings collectors is installed. The cuttings collector in the front and the dust collector unit is connected with robust suction hose. The dust collector is equipped with filters. These filters are cleaned with compressed air. The cleaning function is controlled by the control system. The CDC 2000 has an on board compressor installed for the cleaning function. The system has radio signals controlling the on/off of the suction function.

As an option a silencer can be installed to further reduce noise from the suction fan.



Cuttings collector for surface drilling applications



Cuttings collector for underground drilling applications

2. SAFETY INSTRUCTION

To reduce the risk of serious injury (or even death) for yourself and others, you should read these safety instructions carefully before using the equipment.

These warnings should be visible on the workplace, copies should be distributed to the employees and everyone needs to read the safety instructions before operating or servicing the machine. Follow all safety instructions in the manual. All the safety instructions follow EU applicable laws and directives. You must also comply with any additional national / regional directives. In countries outside the EU apply the local laws and Regulations. Any additional regional laws and regulations must followed.

Safety Symbols Used

The instructions **Danger**, **Warning** and **Caution** have the following meanings:

Danger

Indicates a hazardous situation that, if not avoided, will result in death or serious injury

Warning

Indicates a hazardous situation that, if not avoided, could result in death or serious injury

Caution

Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury

Caution

The components are heavy. To avoid injury during transport to the work area: Use a cart or ask a colleague for help in transportation.

Warning

A sudden or unexpected movement of the machine may occur during use, which can cause injury.

Additionally, you can hurt yourself if this movement makes you lose balance or slip. To reduce the risks, make sure you always stand steady, with your feet as wide apart as your shoulders and with your body in balance. Stand firmly and always hold the machine with both hands.

Warning

To accidentally start the machine can result in injuries.

Keep hands away from the pressure until you are ready to begin work.

Warning

A compressed air hose that comes off can break loose and cause injury or death.

To reduce the risks:

Check that air hoses and connectors are not damaged.

Check all air connections are correctly connected.

Never attempt to disconnect an air hose that is pressurized

Warning

There is a risk that objects are drawn into or trapped in a rotating drill steel. This can cause serious injury. Never grab or touch a rotating drill steel. Do not wear clothing that could get caught. If you have long hair, use a hair net.

Warning

When drilling or working with certain materials sparks can occur which may ignite explosive gases and cause explosions. Explosions could result in serious injury or death. To reduce the risk of explosions:

Never use the machine in explosive environments.

Do not use the machine near flammable materials, flammable vapors or combustible dust.

Ensure that there are no unknown gas wells.

Danger

The machine is not electrically insulated. If the machine comes in contact with electricity it may result in serious injury or death. To reduce the risk of personal injury or death, never use the machine near the power lines or other electrical sources. Make sure there are no hidden wires or other electrical sources.



Warning

Drilling may cause personal injuries caused by splinters or other particles from the work material which fly and hit the machine operator or other persons. Use approved personal protective equipment, including impact-resistant safety glasses with side shields, to reduce the risk of injury from flying objects



Warning

High noise levels can cause permanent hearing damage. Use hearing protection in accordance with the existing Regulations for Health and Safety at Work.

Additional Safety Instructions

- Machinery and accessories may only be used for the purpose they are intended.
- Only qualified and trained personnel should operate or perform maintenance on the machine.
- Learn how the machine is switched off in case of emergency .
- The maximum allowable air pressure of the machine must not be exceeded.
- Always inspect the equipment before use.
- Do not use if you suspect that it is damaged .
- Always use your common sense and good judgment.
- Stay alert and watch what you are doing.
- Do not use the machine if you are tired or under the influence of drugs, alcohol or other substances that can affect your vision, your reactions and your judgment.
- Participate in safety training and other educational programs.
- Never strike the equipment and not abuse it.
- Store the machine and cutting tools in a secure place that is locked and out of reach of children.
- Make sure that all connected and related equipment is properly maintained.
- Signs and stickers that are important for your safety and the operation of the machine are supplied with every machine.
- Make sure that the signs are always readable. New signs and decals can be ordered using the spare parts list.
- Ensure that unauthorized personnel do not enter

the work area.

- Keep work area clean and free of foreign objects.
- Never point an air hose at yourself or anyone else. To avoid injury, never use compressed air to blow away e.g. dust, dirt, etc. from the clothes

Safety Equipment

Always use approved safety equipment. Machine users and all other persons in the work area must wear protective gear as a minimum consist of the following: Safety helmet

Ear plugs

Impact resistant eye protection with side shields

Respiratory protection, when needed

Gloves

Safety Shoes

Welding / cutting

Electrical equipment may be destroyed when welding and cutting in the machine.

Use the equipment necessary to protect the machine.

3.1 CDC 2000 Dust collector P/N 22303731 technical specification

CDC 2000 Dust Collector System

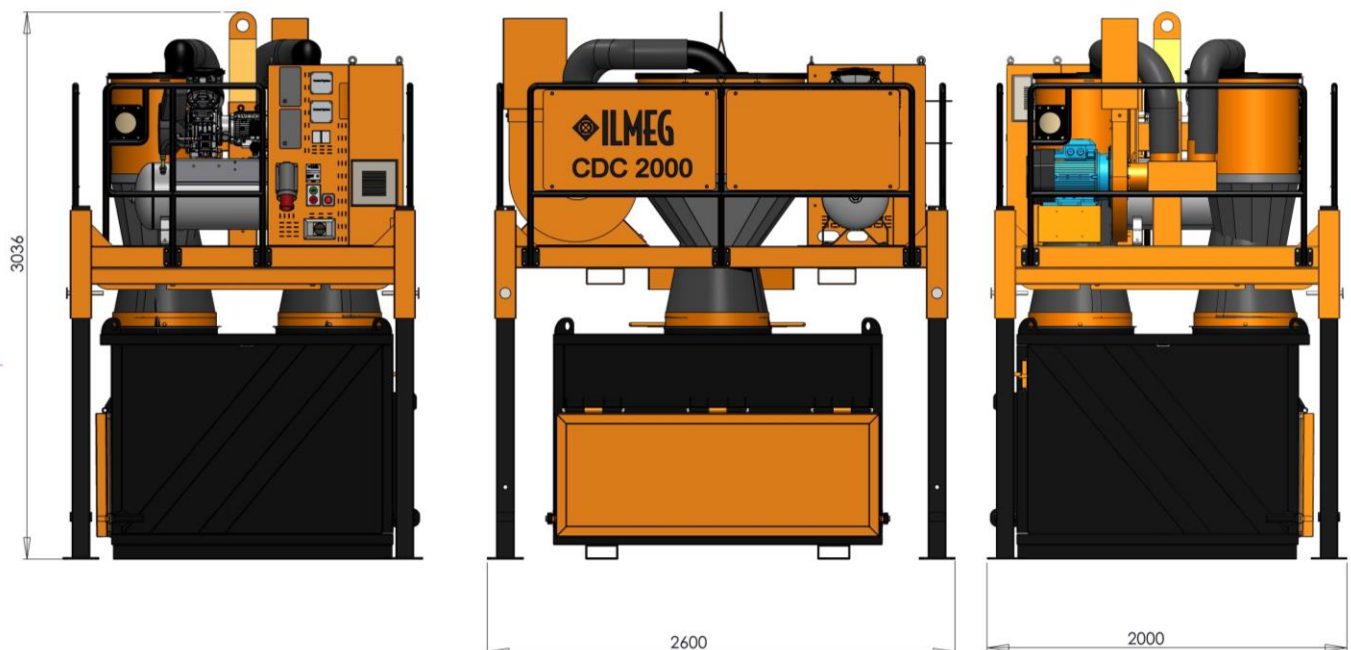
The CDC 2000 is an electrically powered Zero Dust collector system specially designed for extreme demands on dust control. Typical applications are construction sites in residential areas or construction sites close to buildings in sensitive environments. Other applications are quarries, open pit mining or underground tunnelling and mining with high demands on dust control in rock drilling or rock cutting operations.

The system suction drill cuttings and dust from the pick-up-hood housing, through the dust collector to finally dump them in a sealed container. Up to 20m of suction hose can be used to connect the system with the drilling or cutting machines. The filter cleansing system, based on reversed air technology, can be operated through radio signals. The stand, which carries the dust collector, is equipped with fork lift grips for increased mobility.

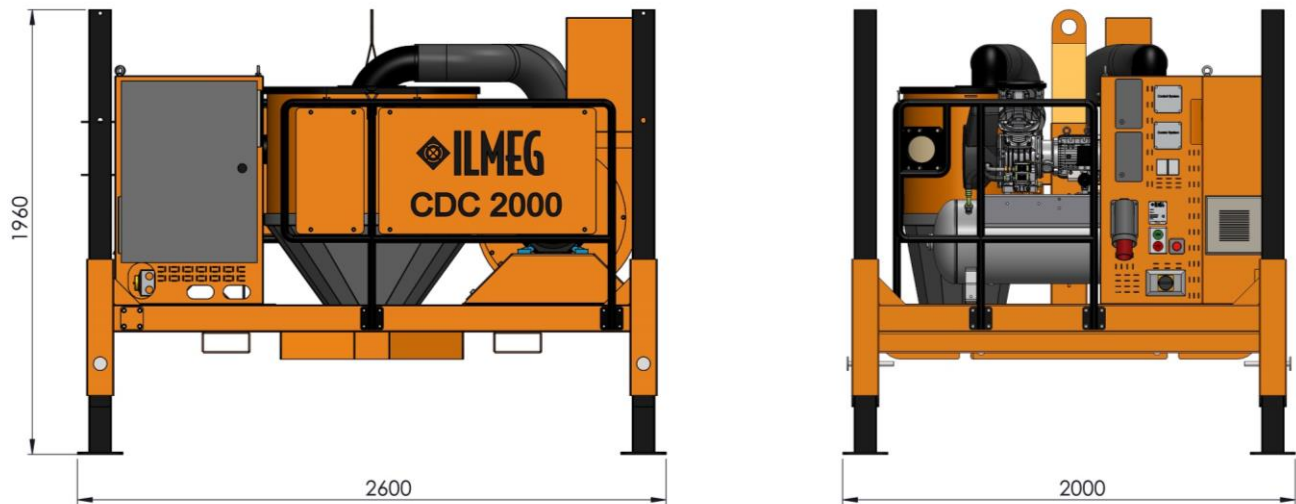
Technical specifications:

CDC 2000, for two rock drills up to 76 mm hole diameter in surface or underground use.

Suction fan:	X-150, Electric drive 15 kW, 380 volt
Filter body:	X-125 (two pcs)
Inlet size:	125 mm (5").
Filter cleansing system	i-clean including 24 V control system (PLC based)
Remote control:	Radio control
Compressor	For filter cleaning
Container capacity:	approx 2.8 m3



Transport position for CDC 2000



Control system for the dust collectors

Remote control receiver

240 V outlet

63 A, 400 V, 50 HZ electric inlet

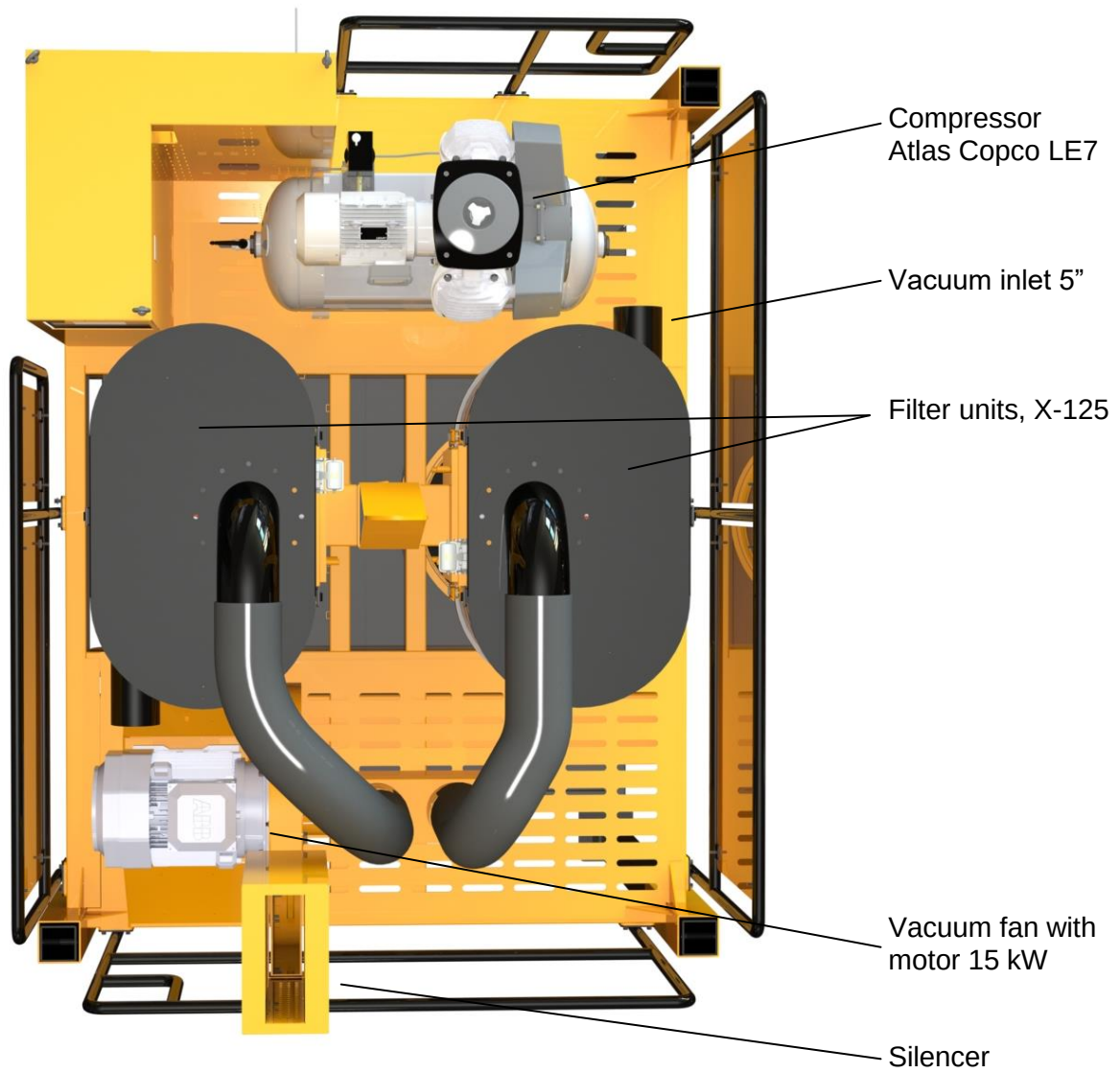
Start-Stop

Emergency Stop

Main switch

Remote control transmitter, mounted on the drilling rig

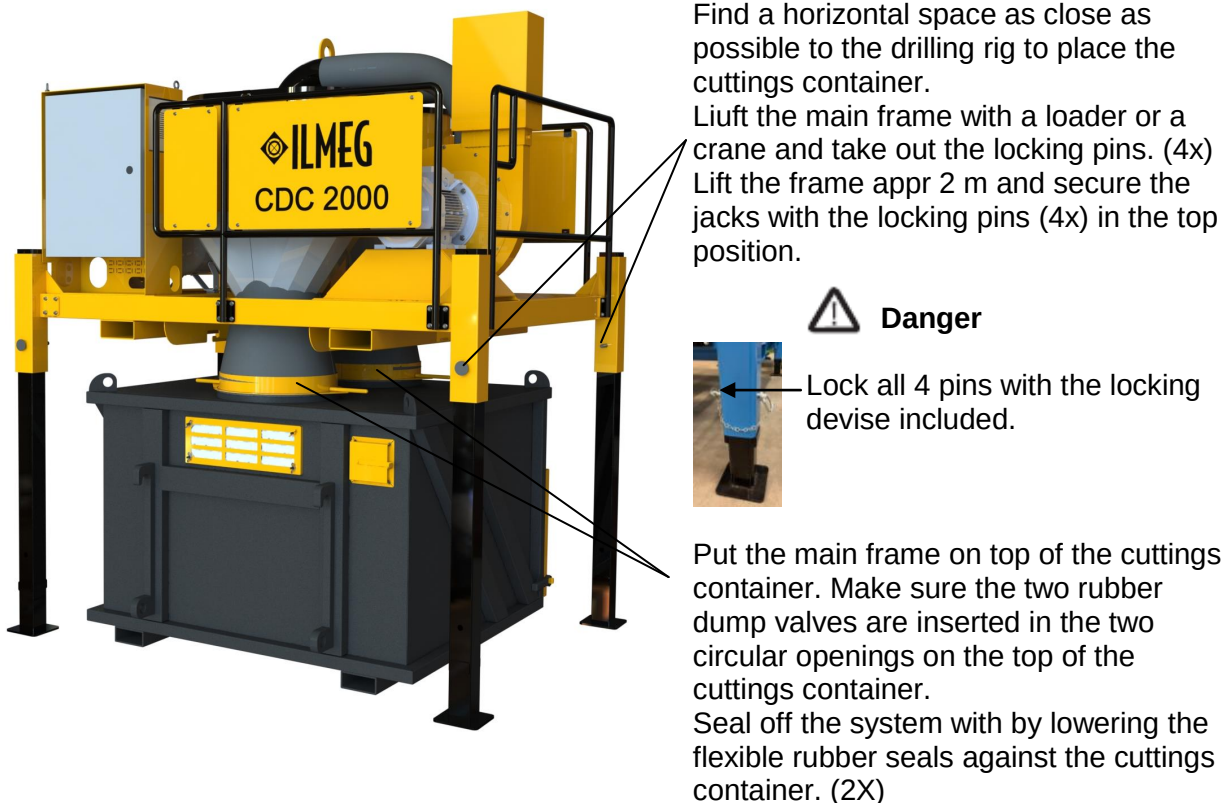
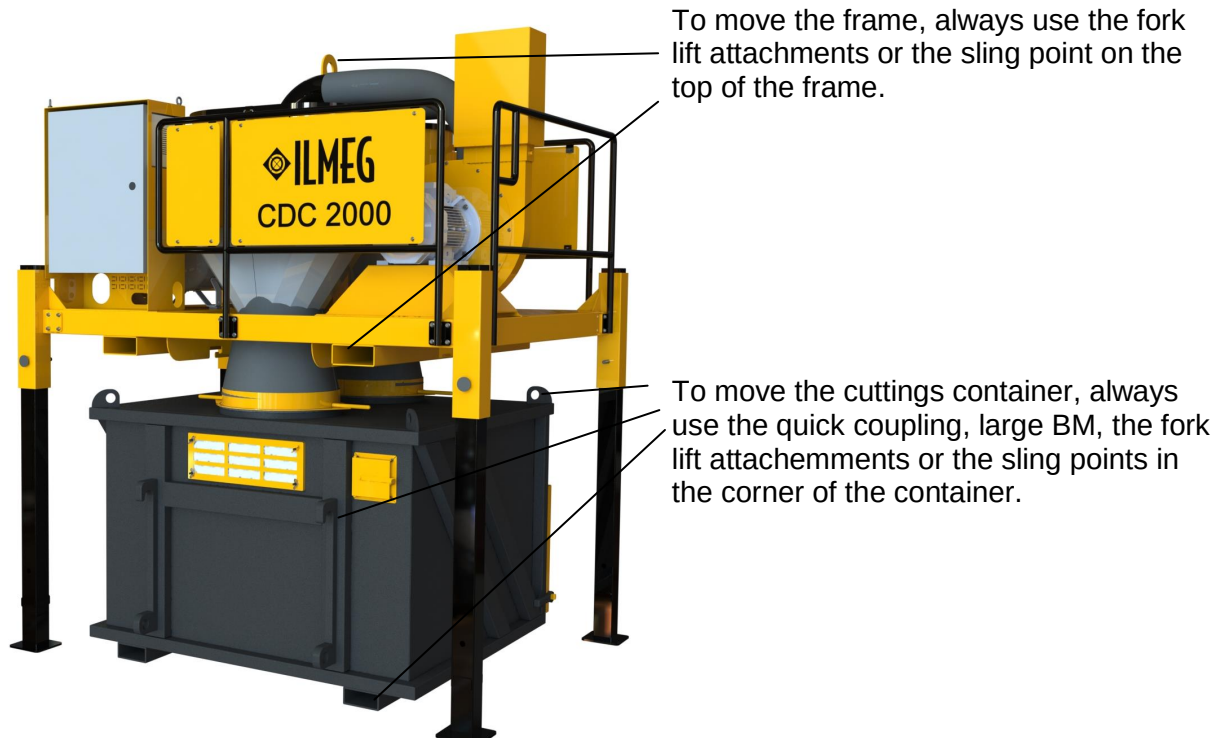


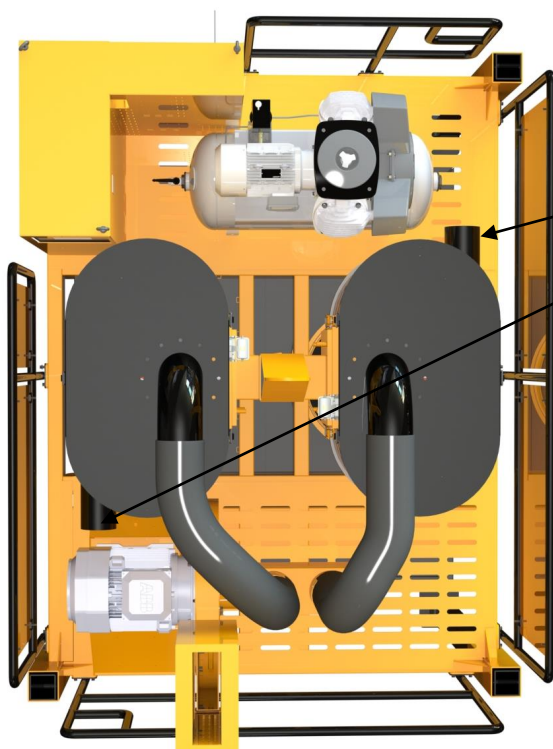


3.2 CDC 2000, installation and operator manual

Installation

CDC 2000 is a stand alone self contained dust collector that works with one or two rock drills.





Connect the suction hoses ID= 127 mm or 5". Must be a wear resistant heavy duty hose.



Connect the electric cable, 63A, 400 V , 50 HZ

Radio remote control



CDC 2000 is equipped with a remote wireless control system to transmit the control signals between the drilling rigs and the dust collector.

The transmitter controls the suction function by connecting 24VDC to the connecting cable.

This signal can be found on the drilling rig by using the signal that controls the existing dust collector. If using this signal the CDC 2000 will work identical with the existing dust collector mounted on the rig.

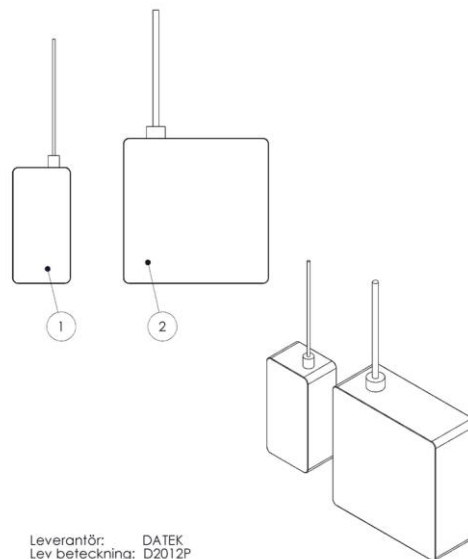
Alternatively, use the electric 24VDC signal to the air flushing valve.

Another alternative is to connect the 24VDC to a manual switch if you prefer to control the suction manually



When the 24VDC signal is active you can see a green LED lightning on the transmitter. The dust collector will then start the suction.

(Prerequisite is that the main electric motor is running)



Leverantör: DATEK
Lev beteckning: D2012P



When the electricity, 400 V 50 Hz is connected to the 63 A intake it is possible to start the CDC 2000.

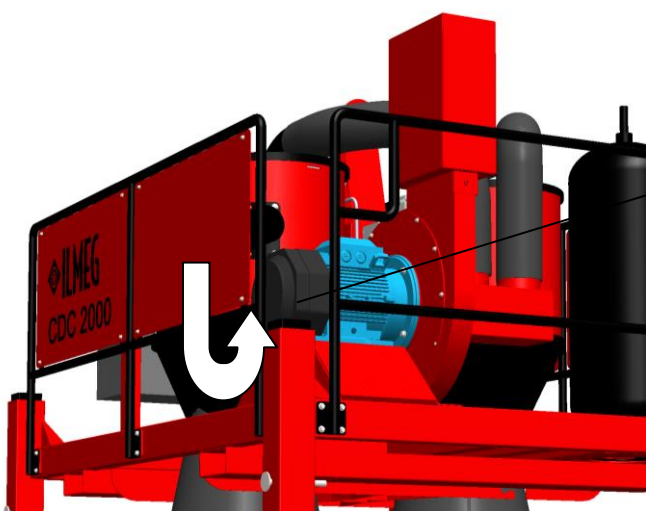
Switch on the main circuit breaker.

Make sure the emergency stop is not activated.

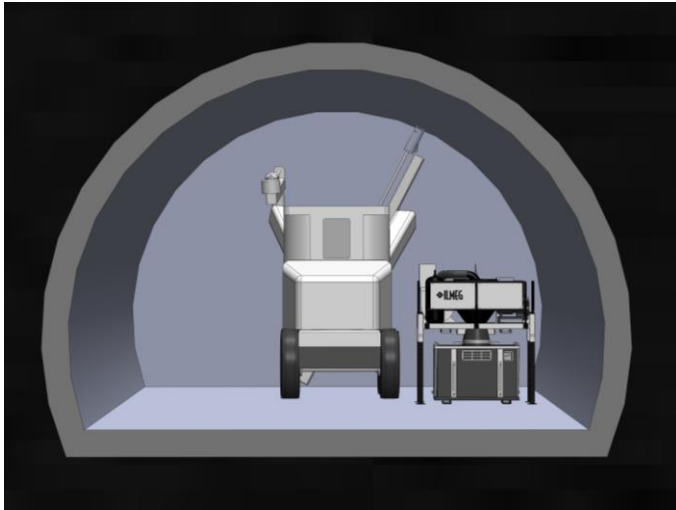
Press 1, Green button to start.
Press 0, Red button to stop.

The compressor starts immediately to charge the accumulator to 8 Bar. When the pressure is reached the compressor stops.

After approximately 30 seconds, the fan motor, 15 kW, soft starts.



Double check the direction of rotation .
the direction is anti clock wise as shown
on th picture.



Place the CDC 2000 as close to the drilling rig as possible to keep the suction hoses as short as possible for best vacuum function.

3.2 Maintenance and service instruction

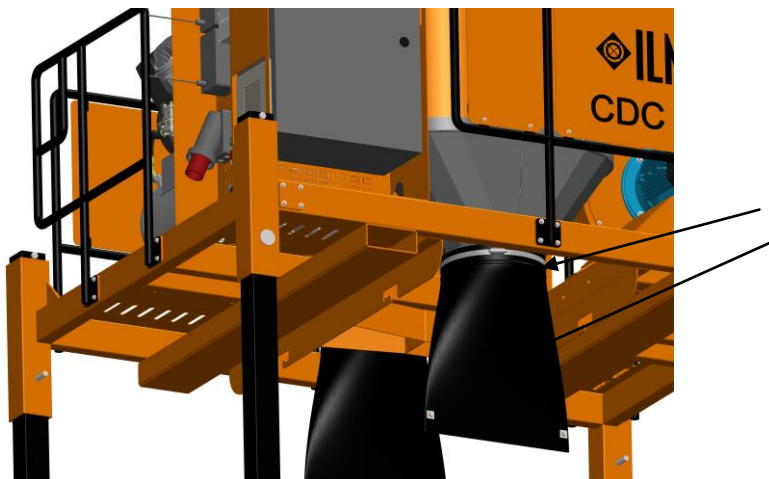
Service and Maintenance Schedule

To secure maximum productivity and avoid unnecessary downtime due to breakdown and repair activities, preventative maintenance in accordance with the schedule below is recommended.

Service interval	Activitet	Action
During operation	Check if dust is coming from the suction fan	Stop immediately and check for leakages
Daily	Check seals in the cuttings collector on the drill feed	Change if necessary
Daily	Check suction hoses for leakages or pinch damages.	Change if necessary
Daily	Check for vibrations in the suction fan	Stop immediately if vibrations
Daily	Check compressed air hoses for leakages	Seal off if necessary
Daily	Check the rubber dump valve in the bottom	Change if broken or missing
Daily	Check the flexible seal to the container	Change if necessary
Daily	Check the filter on the cuttings container	Clean or change if necessary
Daily	Check the oil in the compressor	Top up if necessary
Daily	Empty the compressor air receiver for water	Open the valve in the bottom
500 hour	Change vacuum filter 2 pcs per filter unit	ILMEG P/N 29900013
500 hour	Change wear material in the filter houses 1 pcs per filter unit	Change if worn out P/N 29900020
500 hour	Check the inlets 5"	Change if worn out P/N 29900018
Refer instructions	Change oil and filters in the compressor	In accordance with Atlas Copco instructions

Daily maintenance

1. Check that the rubber valves on the bottom parts of the filter housings are intact and tight. If the rubber valve leaks or is not in place, the suction function will be reduced or completely absent.



2. Check that the fan does not vibrate when running at operating speed. If the fan vibrates, stop immediately and troubleshoot.



Danger

Do not use the CDC 2000 if the fan vibrates. The fan will wear out and this can cause personal injury.



3. Check the suction hoses for leaks or damage. Suction hoses that are deformed or leaking reduce the suction capacity.
4. Check that there is no dust coming from the fan. If dust comes from the fan, stop immediately and troubleshoot.



Danger

Do not use the CDC 2000 if dust comes from the fan. The fan will wear out and this can cause personal injury



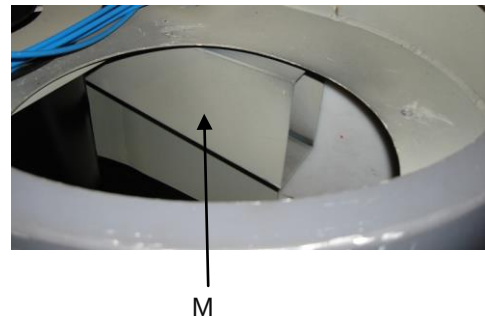
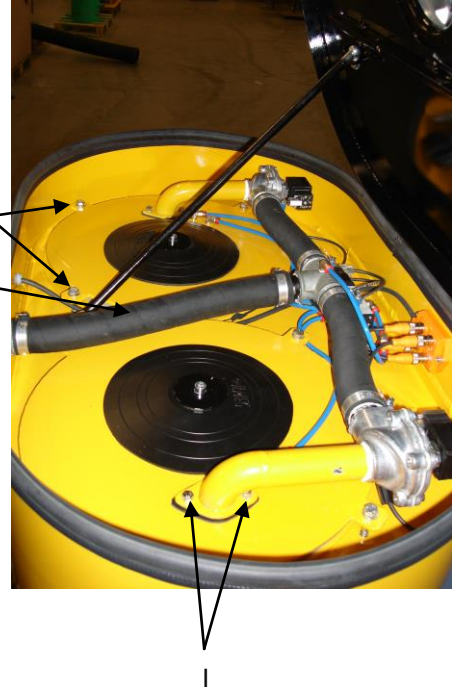
5. Check the seals against the cuttings container so that they are complete and connected to the cuttings container. The suction is not affected by these seals, but there is a risk of dust leaking, when cleaning the filters, if these seals are damaged or not used. The cuttings container is equipped with a pressure equalization filter that should be cleaned when necessary. If the filter is broken, there is a risk of dust leaking when cleaning the filters.



500 hours service

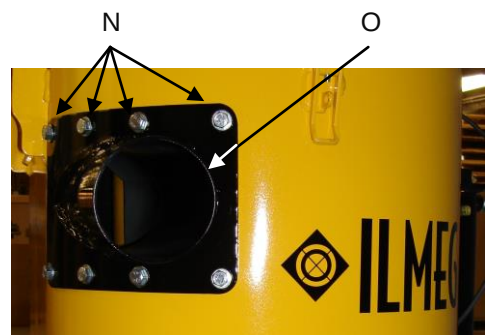
Filter change:

6. Open the lid and secure it with the metal holder.
7. Loosen the screws for the air inlet (I), turn the air inlets in their bayonet holdings and fold the whole hose kit (J) to the side:
8. Loosen the screws for the filter lid a few turns (K) and turn the lid in its bayonet to unlock and remove the holders.
9. You can now lift up the filters easily and replace them. While having no filter in the system check the inlet/diffuser (M) and wear plate.
If worn out change!
For inlet and wear plate change see separate instructions.
10. While changing check also seals. If worn out, change.
11. Put the holders and hoses back in reversed order.



Changing inlet/diffuser:

12. Remove screws (N) holding the inlet.
13. Take out the whole inlet/diffuser (O), (it is one unit)
14. Check the gasket, if worn out - change, otherwise place it properly on the new inlet to prevent any leakage.
15. Tighten the screws (N) properly on the new inlet to prevent leakage.



Changing wear plate:

There are two ways to change wear plate, either through the filter placement or by removing the filter housing bottom section.

Through filter placement:

16. Remove the old wear plate (M) by loosening the screw plate (P) inside the filter house. Make a tight roll of the wear plate and remove it through the hole where the filter was situated.
17. Make a tight roll of the new wear plate to insert in the filter housing. Fit the end into the slot (Q) and put it back under the screw plate (P) and tighten it properly. Make sure the rubber side faces inwards.



Through the filter housing bottom section:

18. Same as above but you need to take away the cone by loosening the snap locks (R) holding the cone (S).
19. When remounting the cone, make sure the sealing is not worn out. If worn out replace. Make sure the snap locks are properly closed to ensure the system is air tight.

Trouble shooting

Problem	Possible Cause	Actions
Vibrations on the dust collector	Stop and check the suction fan	Change the suction fan if necessary
Suction capacity is reduced	Check for leakages	Tighten or change components if necessary
Suction capacity is reduced	Suction hose is blocked	Clean the suction hose or change the suction hose
Suction capacity is reduced	Filters are due to change	Change filters
Suction capacity is reduced	Filter cleaning function is not working	Check that the solenoid valves for cleaning are working. Repair if necessary
Suction capacity is reduced	Air valves are not working	Check the air supply to the dust collector
Suction capacity is reduced	Air valves are not working	Check that the air valves are opening and closing. Repair if necessary
Suction capacity is reduced	Suction fan is not rotating at recommended speed Or in the wrong direction	Check the electric motor and electric system

Spare Parts List

P/N 22303731 Main Frame

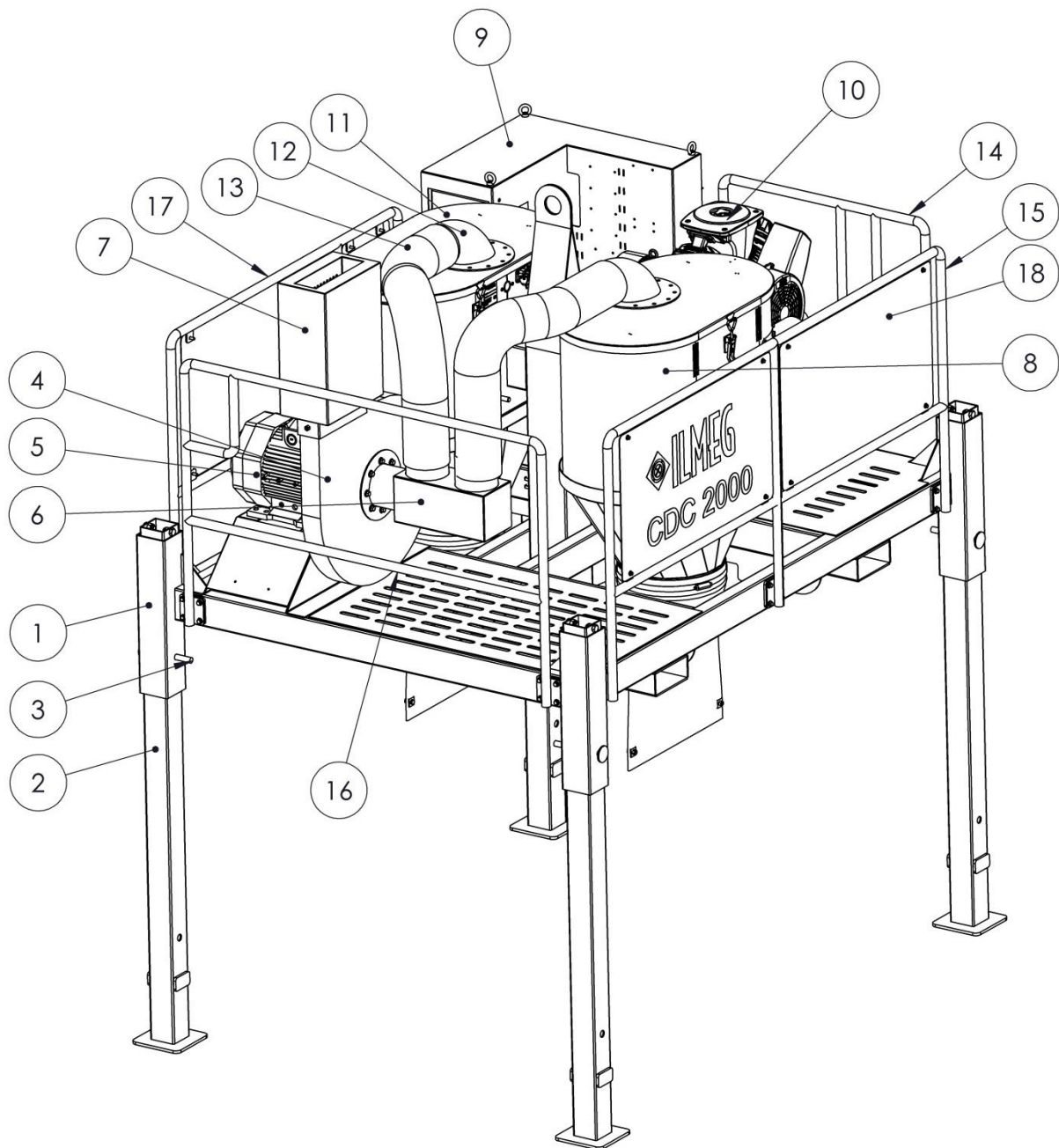
P/N 22301004 Cuttings Container



CDC 2000 MKII

Main Frame P/N 22303731

Spare parts list



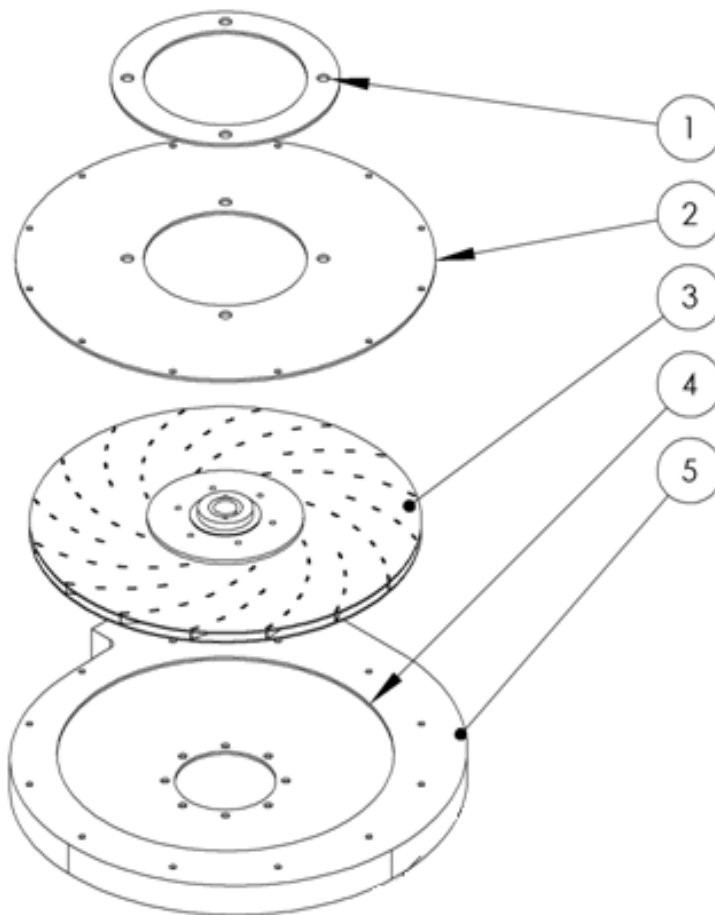
SPARE PARTS LIST**CDC 2000 MKII P/N 22303731**

Pos	Description	Art.no.	Comment
1.	Frame CDC 2000 MKII	22303716	
2.	Support jack	22300358	4 pcs
3.	Locking pin	22300978	4 pcs
4.	El motor 15v KW, 400 V 50 HZ	22300291	
5.	Fan Housing Assy	22300305	**
6.	Suction box	22300971	
7.	Silencer	22301011	
8.	Fillterhousing X-125	22300290	2 pcs
9.	Electric system assembly	22303725	**
10.	Compressor	22303533	**
11.	Filter house top X-125	22300295	2 pcs
12.	Outlet 6"	22300314	2 pcs
13.	Suction hose 6"		
14.	Rail	22300967	
15.	Rail	22300961	
16.	Rail	22300970	
17.	Rail	22303728	
18.	Cover	22300353	3 pcs

**= See separate list

Fan Housing Assy
Part no: 22300305

Spare parts list



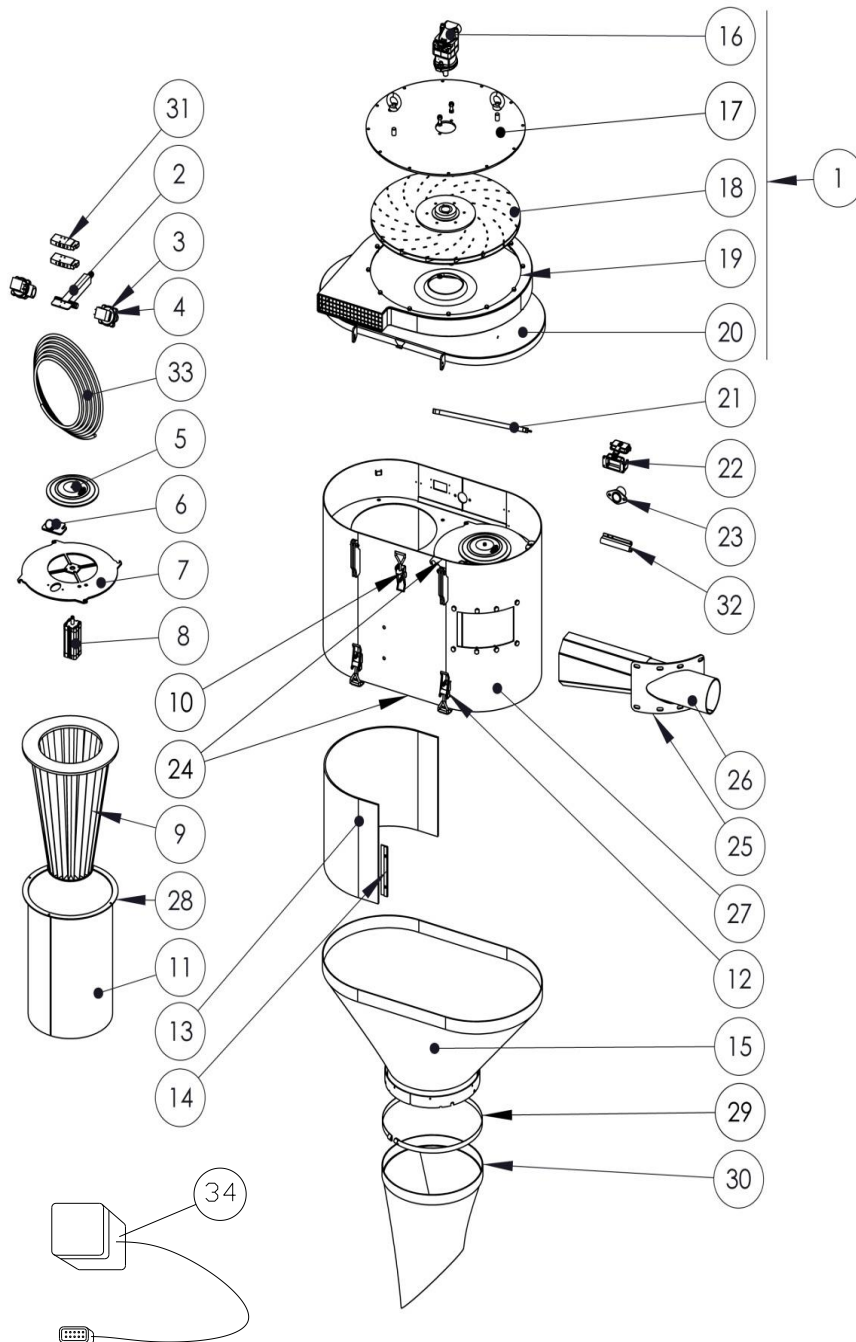
SPARE PARTS LIST

Pos	Description	Art.no.	Comment
1.	Spacer El. Motor	299 00048	
2.	Fan top	299 00049	
3.	Fan wheel for X150-600-27	22301032	42 mm axle
4.	Sealing, 8x4x2010mm	299 00006	
5.	Fan housing	299 00051	

X-125

CDC 2000 Configuration
Part no: 22300290

Spare parts list



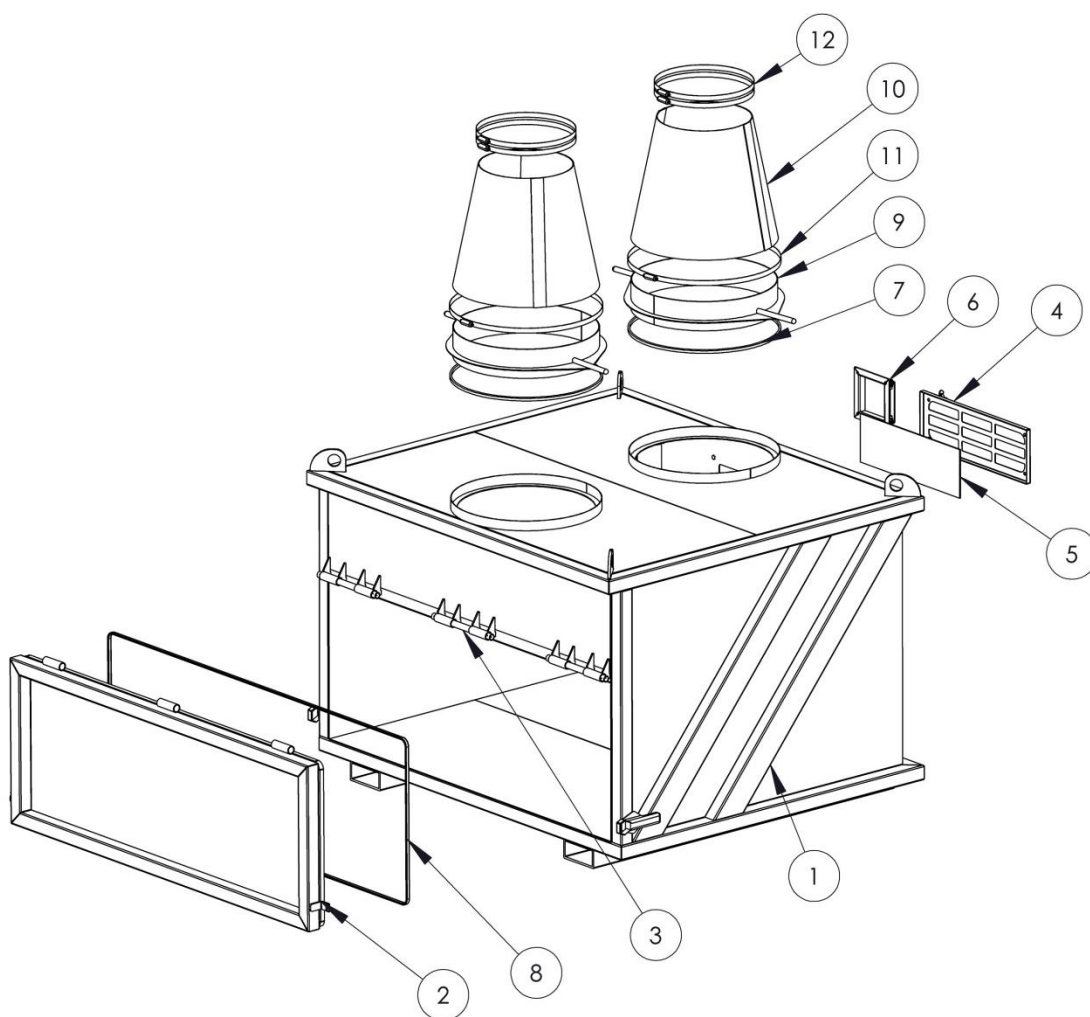
Item number 1, 16, 17, 18, 19 and 33 are not applicable in this configuration

SPARE PARTS LIST**X-125**

Pos	Description	Art.no.	Comment
1.	Fan, complete X125-14	22300145	n/a
2.	Air piping assy	22300094	
3.	Solenoid valve 1"	499 S54045	2 pcs
4.	Diaphragm 1"	499 54400	
5.	Valve plate dia. 210mm	299 00017	2 pcs
6.	Air pipe	22300097	2 psc
7.	Filter lid	299 00015	2 pcs
8.	Double-acting cylinder	299 00014	2 pcs
9.	Filter	299 00013	2 pcs
10.	Excenter lock	399 14810	3 pcs
11.	Filter protection	299 00011	2 pcs
12.	Excenter lock	299 00039	4 pcs
13.	Wear protection	299 00020	
14.	Wear protection fastening	22300127	2 pcs
15.	Bottom housing section	299 00010	
16.	Hydraulic motor	399S40050	n/a
17.	Fan top	22300011	n/a
18.	Fan wheel for X125-14	29900005	n/a
19.	Sealing 8x4x2010mm	29900006	n/a
20.	Fan housing	29900007	
21.	Hatch stay	22300165	
22.	El. cabling assy	22300133	
23.	Air connection 1"	22300096	
24.	Sealing strip 2440mm	299 00021	2 pcs
25.	Inlet gasket	299 00019	
26.	Inlet 5"	299 00018	
27.	Filter housing	299 00022	
28.	Sealing 25x10x1200mm	299 00012	2 pcs
29.	Clamp for rubber valve	299 00009	
30.	Rubber valve	299 00008	
31.	Control valve 5/2	299 00001	2 pcs
32.	El. cabling protection	22300088	
33.	Hosing assy	299 00024	n/a
34.	Control system	22300157	

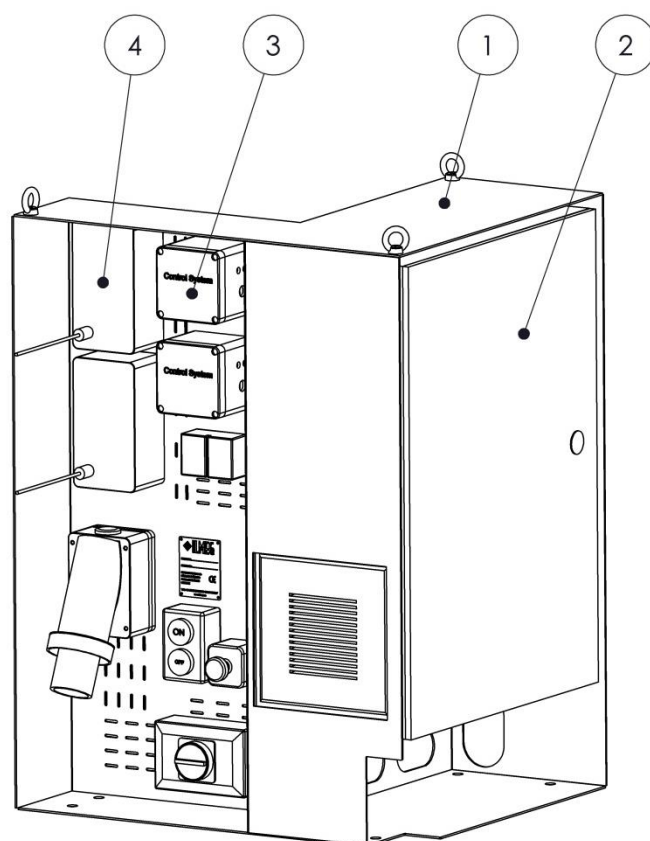
Cuttings Container CDC 2000, P/N 22301004

Pos	Description	Art.no.	Comment
1	Cuttings container	22300984	
2	Door	22300998	
3	Hatch pin	22301002	
4	Filter holder	22300357	
5	Filter	22301902	
6	Inspection door	22301022	
7	Seal	22301901	
8	Seal	22301900	
9	Holder	22300345	
10	Flexible cover	22301031	
11	Clamp	22303641	
12	Clamp	29900009	
13	Excenter lock	22301903	2 pcs



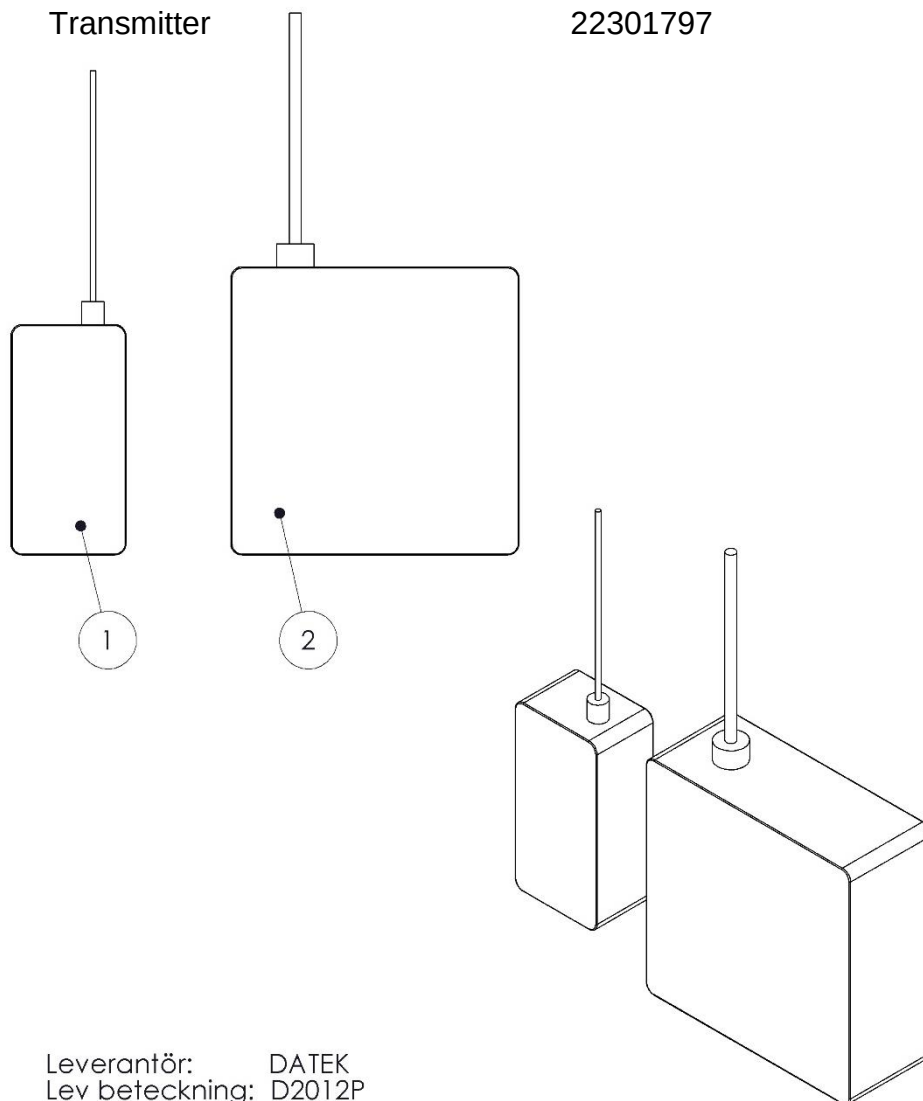
Electric system assembly P/N 22303725

Pos	Description	Art.no.	Comment
1	Frame	22303726	
2	Electric System	22303721	**
3	Control system X-125	22300157	
4	Radio Remote Control	22300298	**



Radio Control CDC 2000, P/N 22300298

Pos	Description	Art.no.	Comment
1	Receiver	22301798	
2	Transmitter	22301797	



Leverantör: DATEK
 Lev beteckning: D2012P

EC Declaration of Conformity

We: Datek Industri Elektronik AB
P O Box 94, SE-147 22 TUMBA, Sweden

Declare under our responsibility that the following Datek products:

D2012, D2001, D2801, D2801 Midi and D6003 are, subject to installation, maintenance and use conforming to their intended purpose, to standard practice, to the applicable installation regulations and the manufacturer's instructions, are in accordance with the provisions of the following directives:

99/5/EC **Radio and telecommunications terminal equipment (R&TTE)**
2006/42/EC **Machinery directive**

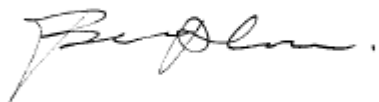
For the receiver **D2001**, the following directive also applies:

2006/95/EC **Low voltage directive**

The products are in accordance with the following harmonised standards:

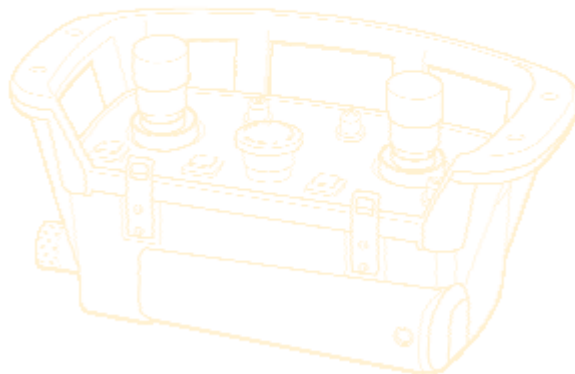
EN 301 489-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.
EN 301 489-3	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz
EN 300 220-3	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25MHz to 1000 MHz frequency range with power levels ranging up to 500mW; Part 3: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.
EN 61000-6-2	Electromagnetic compatibility Generic immunity standard Part 2: Industrial environment.
ISO 12100-1 : 2003	Safety of machinery - Basic concepts, general principles for design.
ISO 14121-1 : 2007	Safety of machinery - Risk assessment.
ISO 13849-1 : 2006	Safety of machinery - Safety-related parts of control systems. PL e on the stop function (cat 4), PL d on all other functions.
EN 60204-32	Electrical equipment of machines, Part 32: Requirements for hoisting machines.

Tumba, August 18, 2010,



Bror Blom
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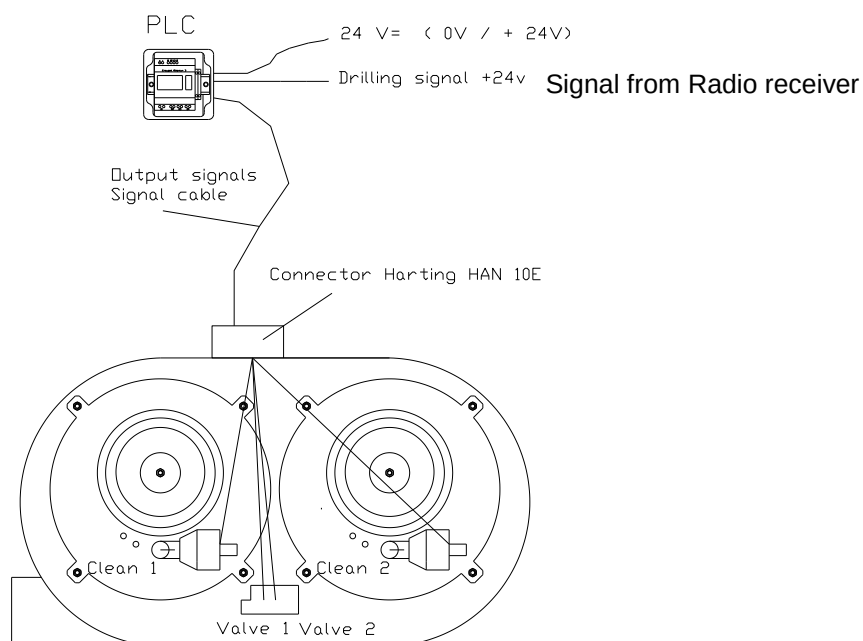
Control system P/N 22300157



The X-series control system controls the function of the dust collector.
The filter cleaning is pre-programmed and optimized for long lasting trouble free operation.

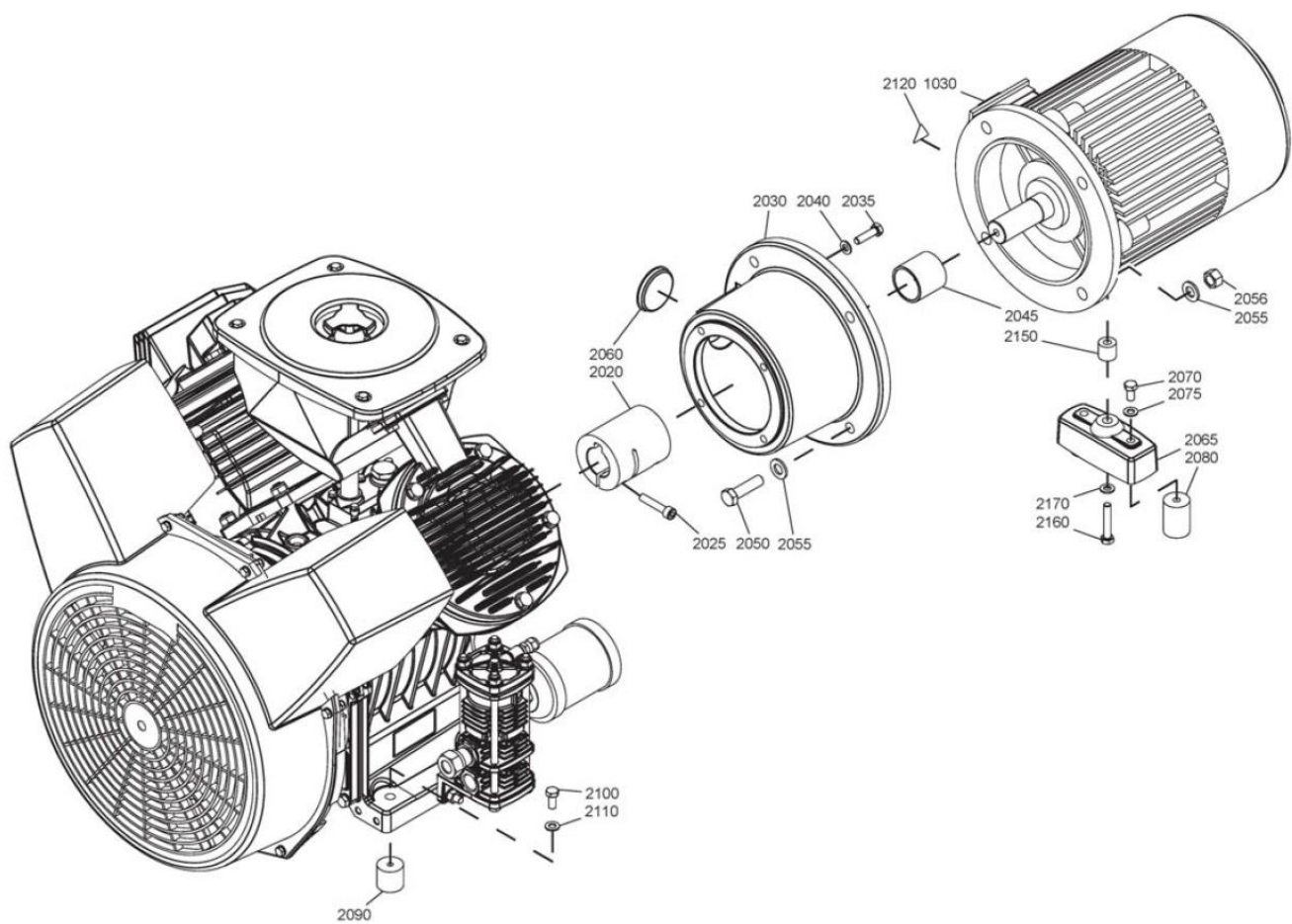
Specification: P/N 22300157

Control System	PLC based
Power	24 V DC



Compressor LE 7 TM 90

P/N 22303533



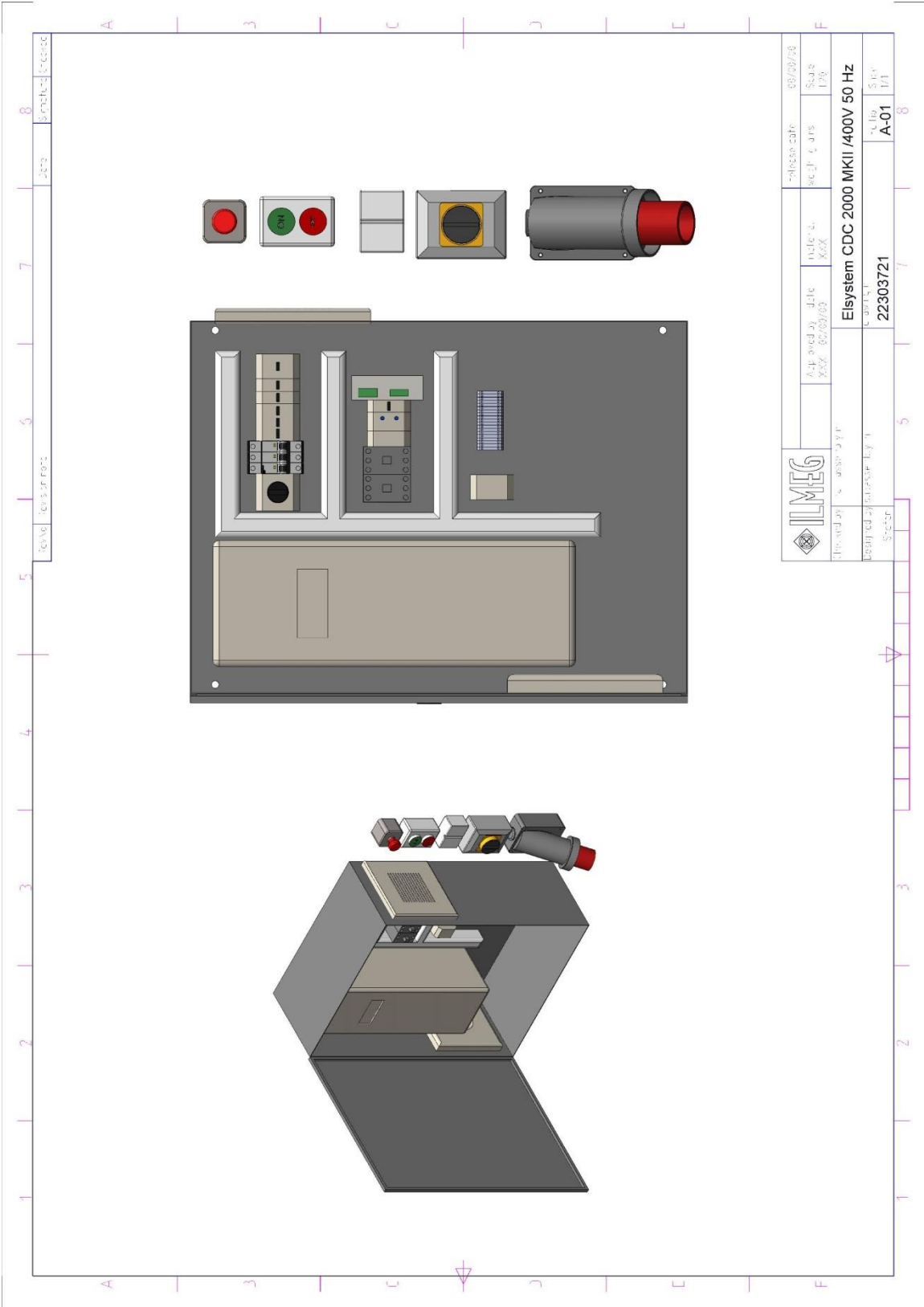
Parts list

PowerPack - LE 7, LE 10

Ref.	Part number	Qty	Name	Rei
1030	<<< >>>	1	Motor	1)
2020		1	Coupling	
	1503 3181 00		LE 7	
	1503 3180 00		LE 10	
2025	0211 1328 00	2	Screw	
2030	1503 2871 00	1	Coupling housing	
2035	0147 1326 03	4	Hexagon bolt	
2040	0301 2335 00	4	Washer	
2045		1	Bushing	
	1503 2959 00		LE 10	
2050		4	Hexagon bolt	
	0147 1404 03		LE 10	
2055	0301 2358 00	8	Washer	
2056	0266 2112 00	4	Nut	
2060	1503 0235 00	1	Plug	
2065	1503 0073 00	1	Housing	
2070	0147 1322 03	2	Hexagon bolt	
2075	0301 2335 00	2	Washer	
2080	1503 0204 00	2	Damper	
2090	1503 2960 00	2	Antivibr.pad	
2100	0147 1961 84	2	Hexagon bolt	
2110	0301 2335 00	2	Washer	
2120	1088 1001 01	1	Warning mark	
2150		1	Spacer	
	1503 0605 00		LE 7	
2160		1	Screw	
	0147 1329 03		LE 7	
	0147 1363 03		LE 10	
2170		1	Washer	
	0301 2335 00		LE 7	
	0301 2344 00		LE 10	

1) See: Electrical components - Motor, Pressure switch and Solenoid valve

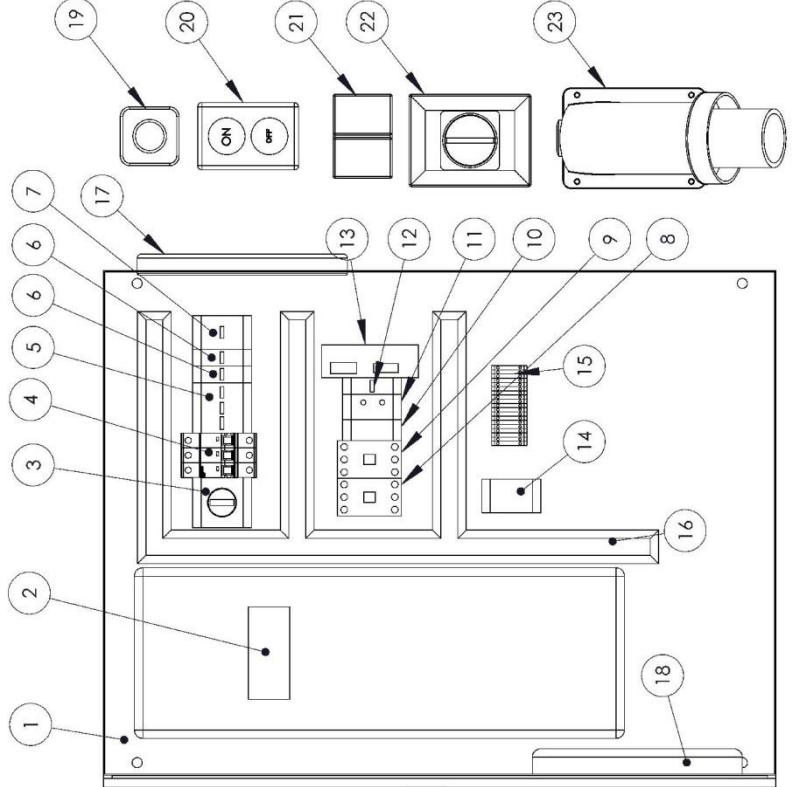
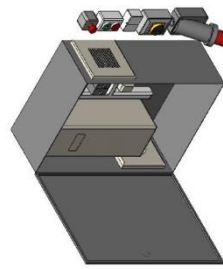
Electric System CDC 2000, P/N 22303721



1 2 3 4 5 6 7 8

15 kW system

8 7 6 5 4 3 2 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	22301796	Elskåp AES806030	1
2	22301790	ABBDriver 15 kW ACS 550-01-031A-4	1
3	22303638	Huvudbrytare 63A	1
4	22303639	Automatsäkring 3p 50A	1
5	22303659	Automatsäkring 3 fas 20 A	1
6	22301464	Automatsäkring 10A 2 pole	2
7	22301465	Jordfelsbrytare 2 pol 40A	1
8	22303636	Kontaktor KNL-63 Iskra 63A, 230 V	1
9	22303637	Kontaktor KNL 22 Iskra 22A 230 V	1
10	22303404	Relä Releco med sockel	1
11	22301467	Tidrelä	1
12	22301468	Automatsäkring 2A	1
13	22301469	Matningsdon 24V DC CABUR XCSF120C	1
14	22301466	Termostat KTS1141	1
15	22300864	Kopplingsplint för din skena	19
16	22301470	Kabelränna	1
17	22301471	Ventilationsgaller FPF 12 Ekkapsling	1
18	22301472	Filterfäkt Ekkapsling FPF 50	1
19	22301474	Nödstopp	1
20	22301476	Start Stop	1
21	22301477	Uttag 220 V	1
22	22303640	Säkerhetsbrytare 63 A	1
23	22301788	Elnätag 63 A CEE	1

ILMEG

Approved by: XXX, 02/02/03

Scale: 1/70

Released by: XXX, 02/02/03

Weight: 170

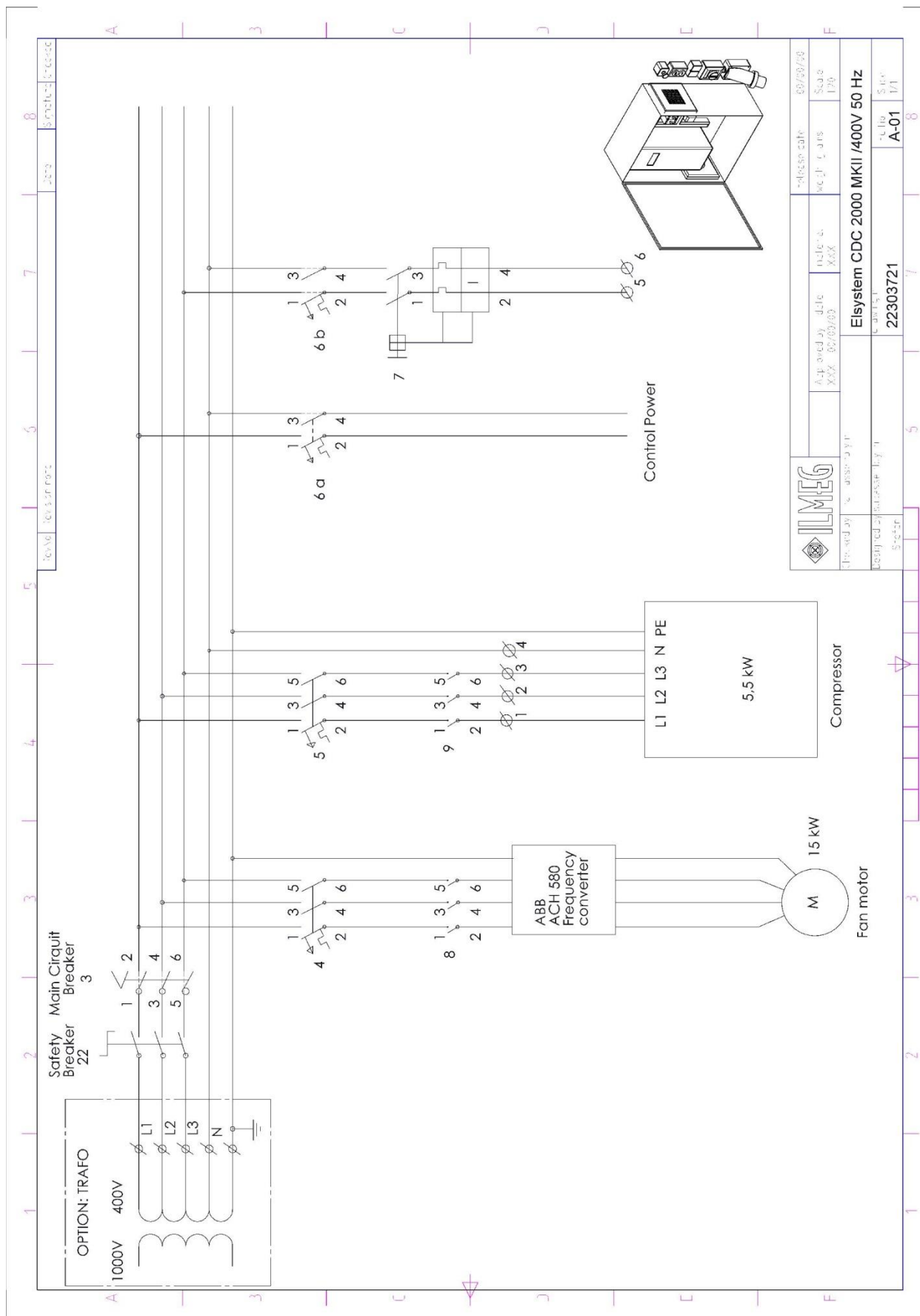
Material: Steel

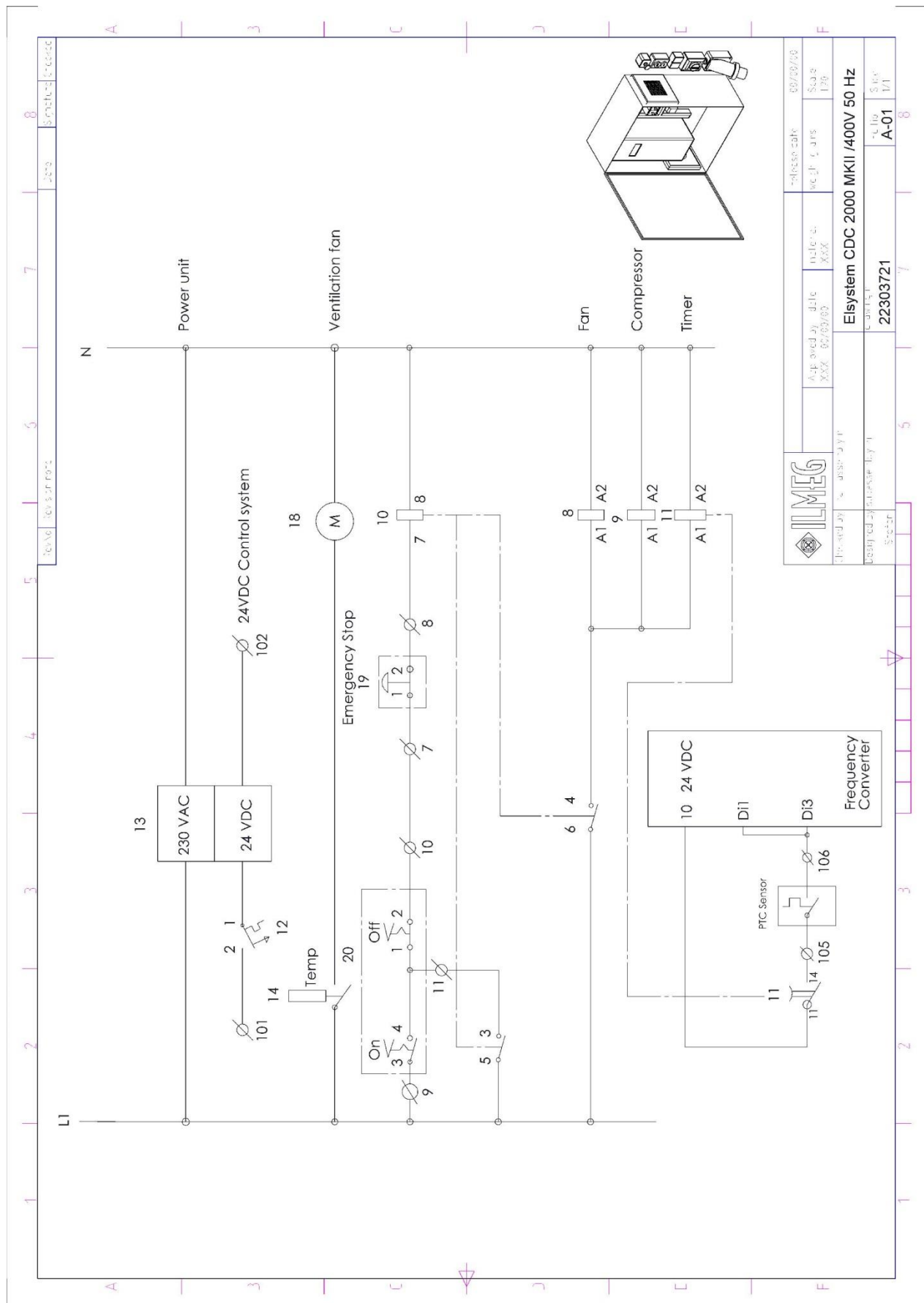
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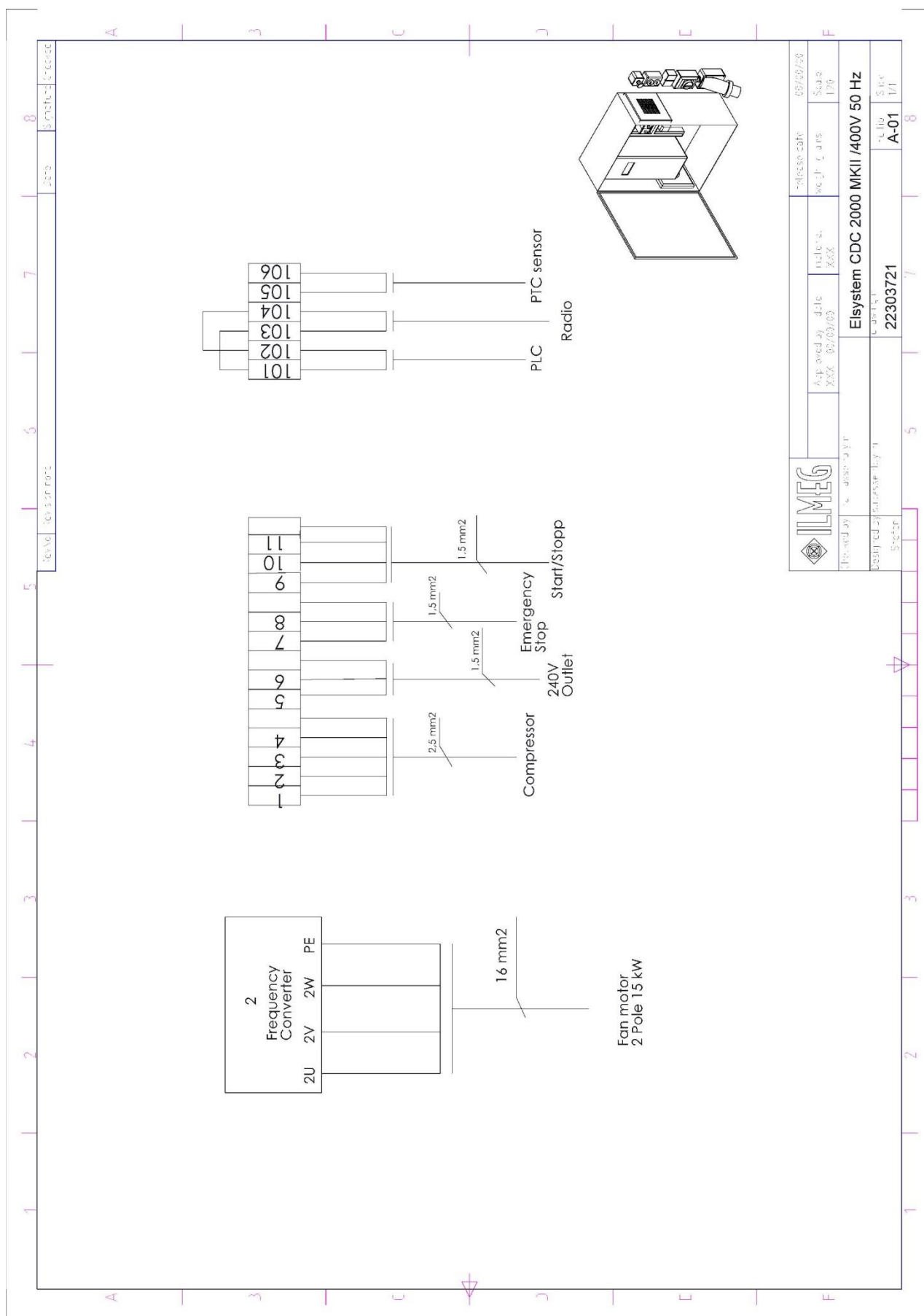
Size: 1/1

System: Elsystem CDC 2000 MKII / 400V 50 Hz

Part Number: 22303721









TEST CERTIFICATE

ATLAS COPCO
INDUSTRIAL AIR DIVISION
ROBASSOMERO
ITALY

Compressor type:

Serial number:

Date of Test:

This document certifies that the compressor has been tested and fully complies with the Atlas Copco specifications regarding quality and operating efficiency and has been recorded accordingly

Test result

Status:

Inspector

Pionde