EMMEBI IMPIANTI
AEROTEXTILE TECHNOLOGY

INERTIAL CYCLONE & CYCLONE WITH COMPACTING SCREW 'CVC'

The CVC is an inertial cyclone made of painted sheet metal in which the dusty air enters tangentially and is separated from contamination and waste, which ends up directly in a hopper in which a compacting screw rotates by an energy-efficient gear motor.

This system is used to separate air and dust and to collect the waste, which is then recompacted and automatically ejected.

EMMEBI also makes customised cyclones for processing wood waste, plaster, cement, synthetic fibres, etc. etc. for capacities up to 25.000 m3/h

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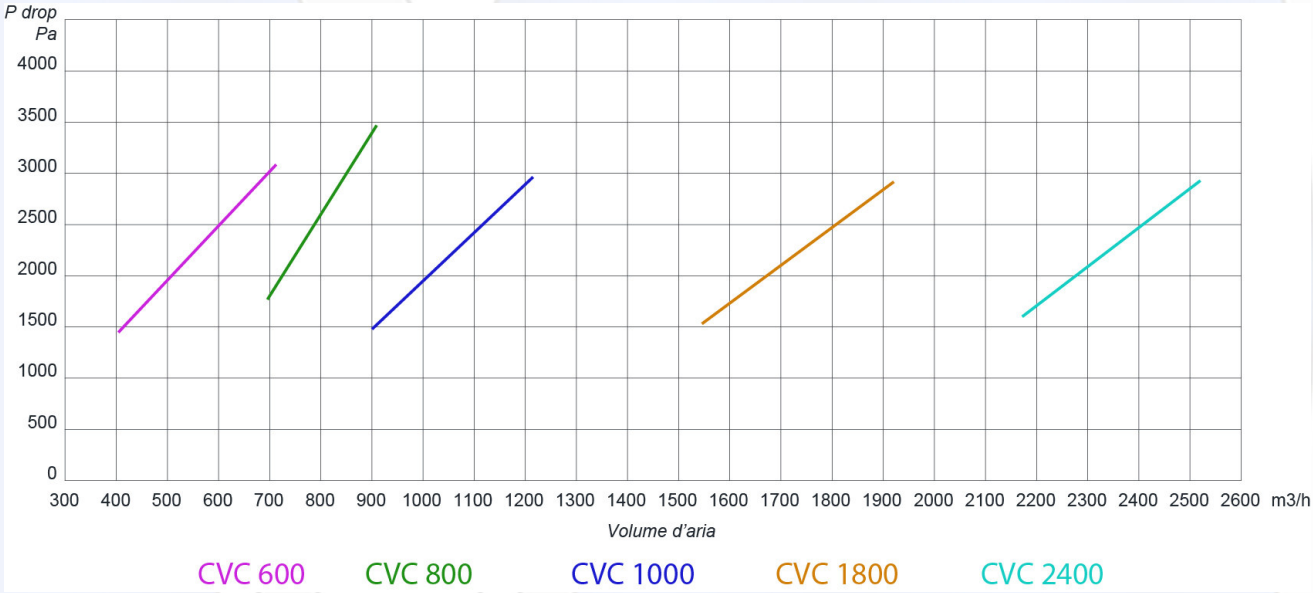
TECHNICAL DATA

Gear motor main voltage : 400 V - 50 Hz - 3F (400V - 60Hz - 3F)
Installed power : 0,75 kW

TYPE	*HAIR CAPACITY NOMINAL*
CVC 600	*600 m3/h*
CVC 800	*800 m3/h*
CVC 1000	1000 m3/h
CVC 1800	1800 m3/h
CVC 2400	2400 m3/h



For thin particle → consider a greater volume

For bigger particle → consider a smaller volume

Air volume: 300-1000 m3/h **Dust Quantity:** 50 to 220 Kg/h **P drop:** 1200-2000Pa

min particle size separated at 50% µm 3-5
min particle size separated at 59% µm 10-20

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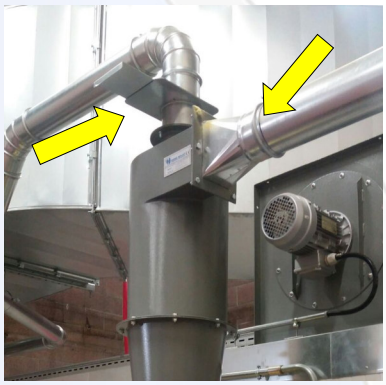
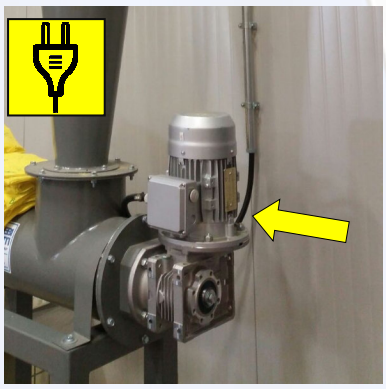
INSTALLATION PROCEDURES

The Cyclone filter can indifferently work in a circuit in pressure or in depressure.

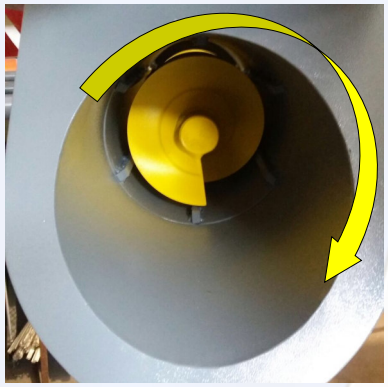
1 Connect the suction points to the filtering equipment.
The return pipe placed on the top of the cyclone should be equipped by a guillotine damper.
In bases of the regulation of this damper we can reduce the air return flow to the filter.



2 Plug to the electricity the rotating gear motor



3 Check that the screw is running in the right direction.
A wrong rotation (opposite direction) may break the compacting screw



4 During the starting procedures, when the cyclone starts empty, it's necessary to create a plug with fabric or juta bag until the material that falls into the compacting screw creates itself a plug that ejects the fabric. This procedure is necessary for avoid the blowing of fabric and waste into the department.

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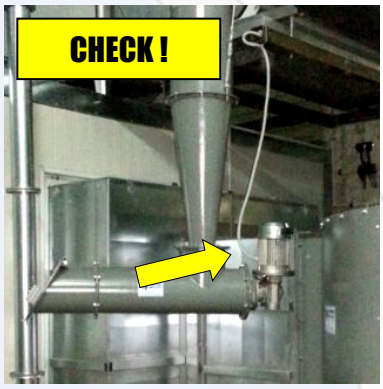
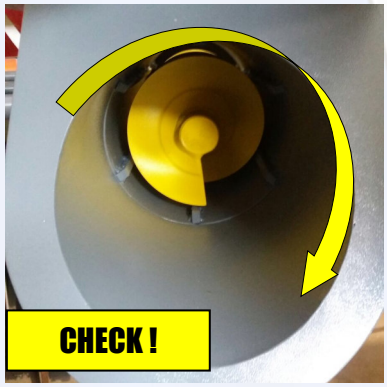
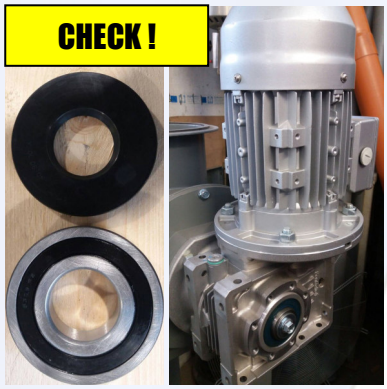
MAINTENANCE PROCEDURES

1 Periodically check the absorption of the gear motor	
2 Periodically check the rotation of the screw	
3 Check every six months the status of the ball bearings and running mechanisms	

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MAINTENANCE LIST

Spare part	Frequence of intervention					
	Weekly	*Monthly*	*Every 3 months*	*Every 6 months*	*Every Year*	*Every 2 years*
Gear Motor						
Iron Screw						

Check the status of the component

Change the component (adviced)

Change the component (max time)

Grease

We advice to keep one piece or set in your storehouse

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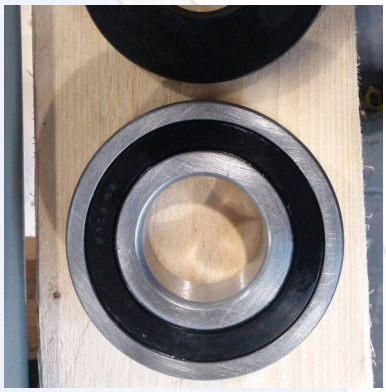
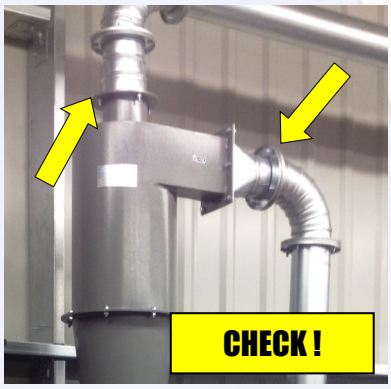
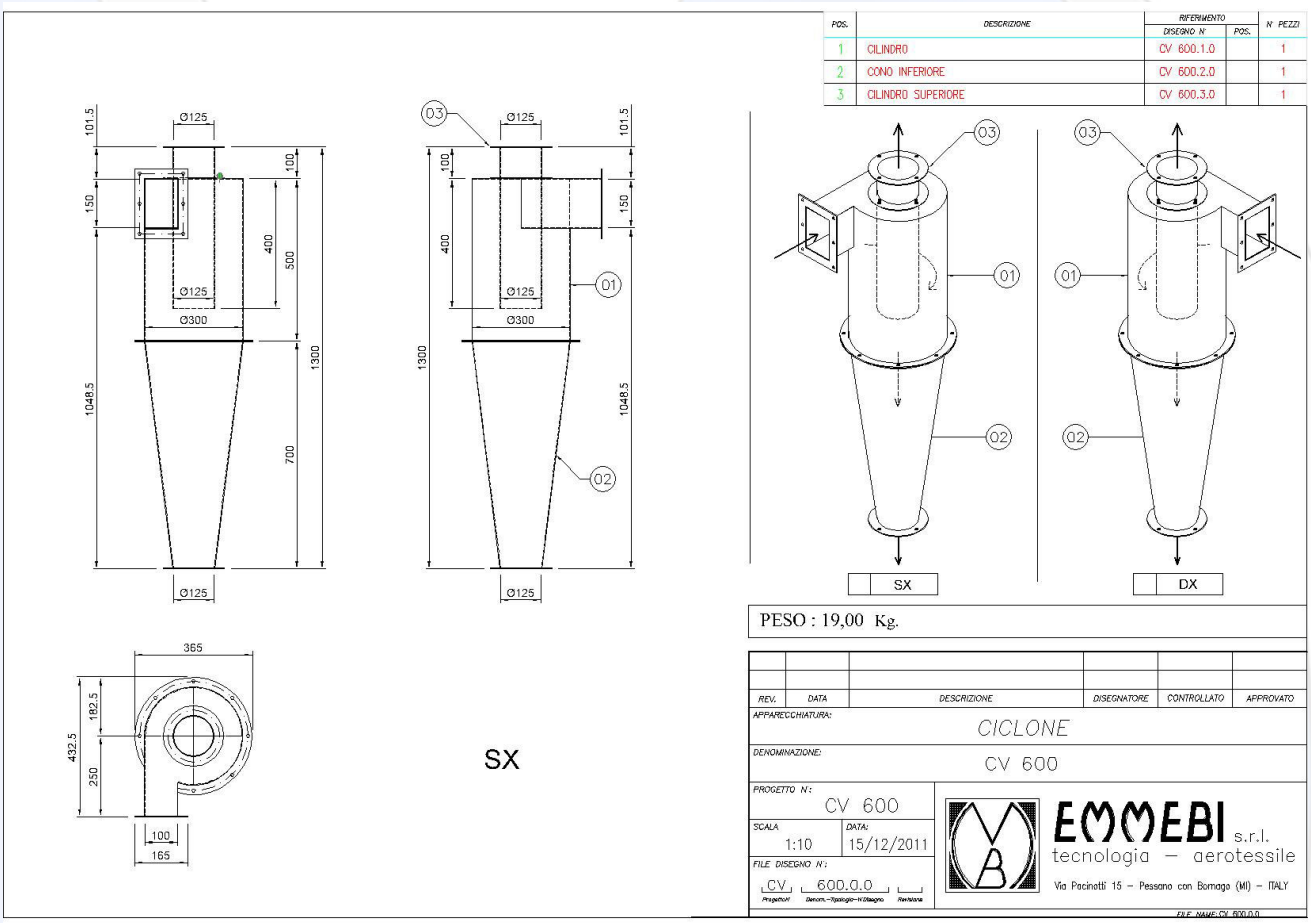
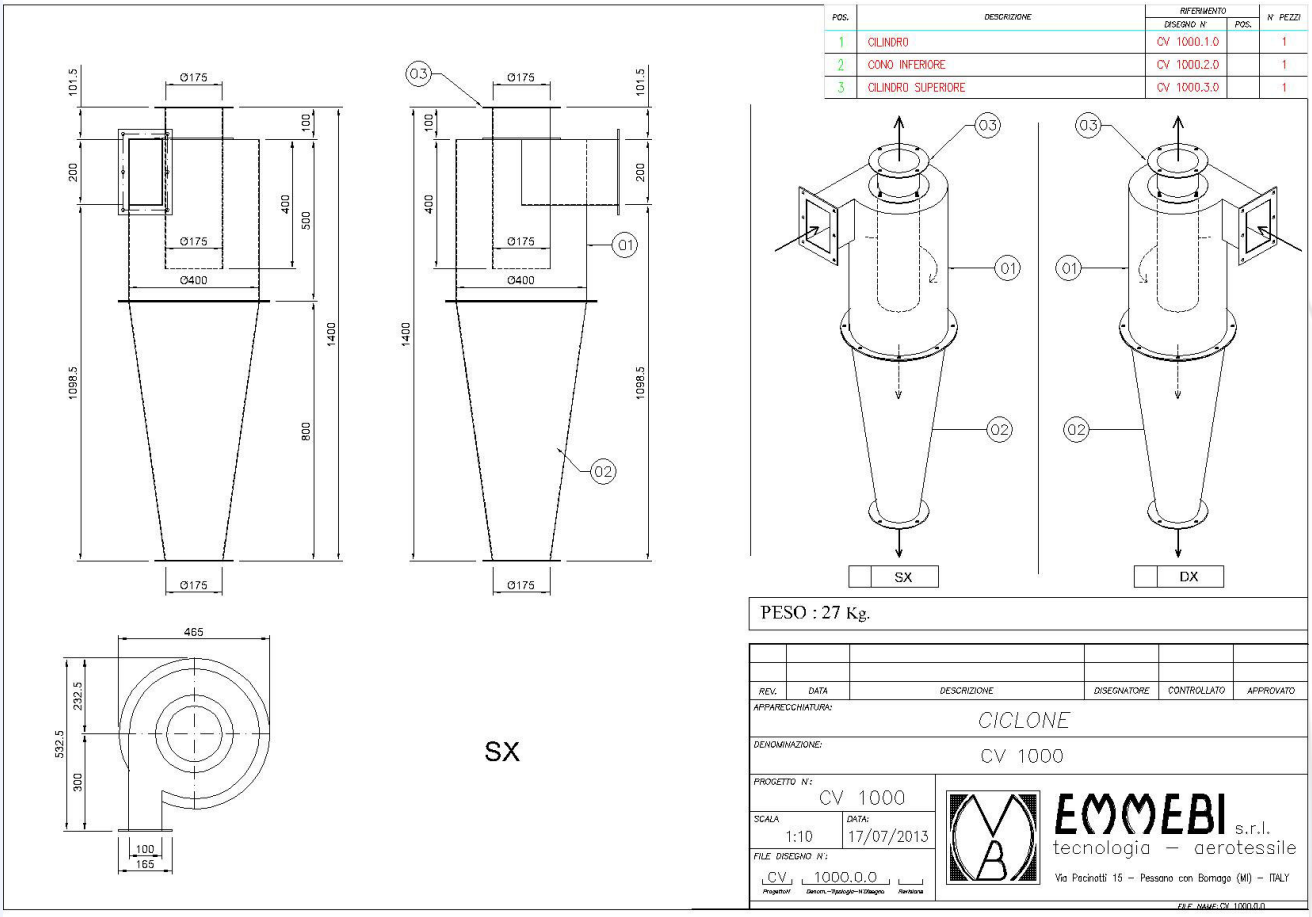
INTERVENTIONS

1	If the ball bearings are found worn replace them. However the average working time is up to 20,000 hours.	
2	If the compacting valve doesn't discharge the material, check that the air pipes are not blocked otherwise clean them. If the pipes are free, then close partially the air return pipe with guillotine.	

CVC ASSEMBLY DRAWING




POS. | DESCRIZIONE | RIFERIMENTO DISEGNO N° | RIFERIMENTO POS. | N° PEZZI
1 | CILINDRO | CV 1000.1.0 | | 1
2 | CONO INFERIORE | CV 1000.2.0 | | 1
3 | CILINDRO SUPERIORE | CV 1000.3.0 | | 1
Ø175
Ø400
101.5
200
100
400
500
1400
800
1098.5
01
02
03
SX
DX
465
232.5
532.5
300
100
165
PESO : 27 Kg.
REV. | DATA | DESCRIZIONE | DISEGNATORE | CONTROLLATO | APPROVATO
APPARECCHIATURA: CICLONE
DENOMINAZIONE: CV 1000
PROGETTO N°: CV 1000
SCALA 1:10
DATA: 17/07/2013
FILE DISEGNO N°: CV 1000.0.0
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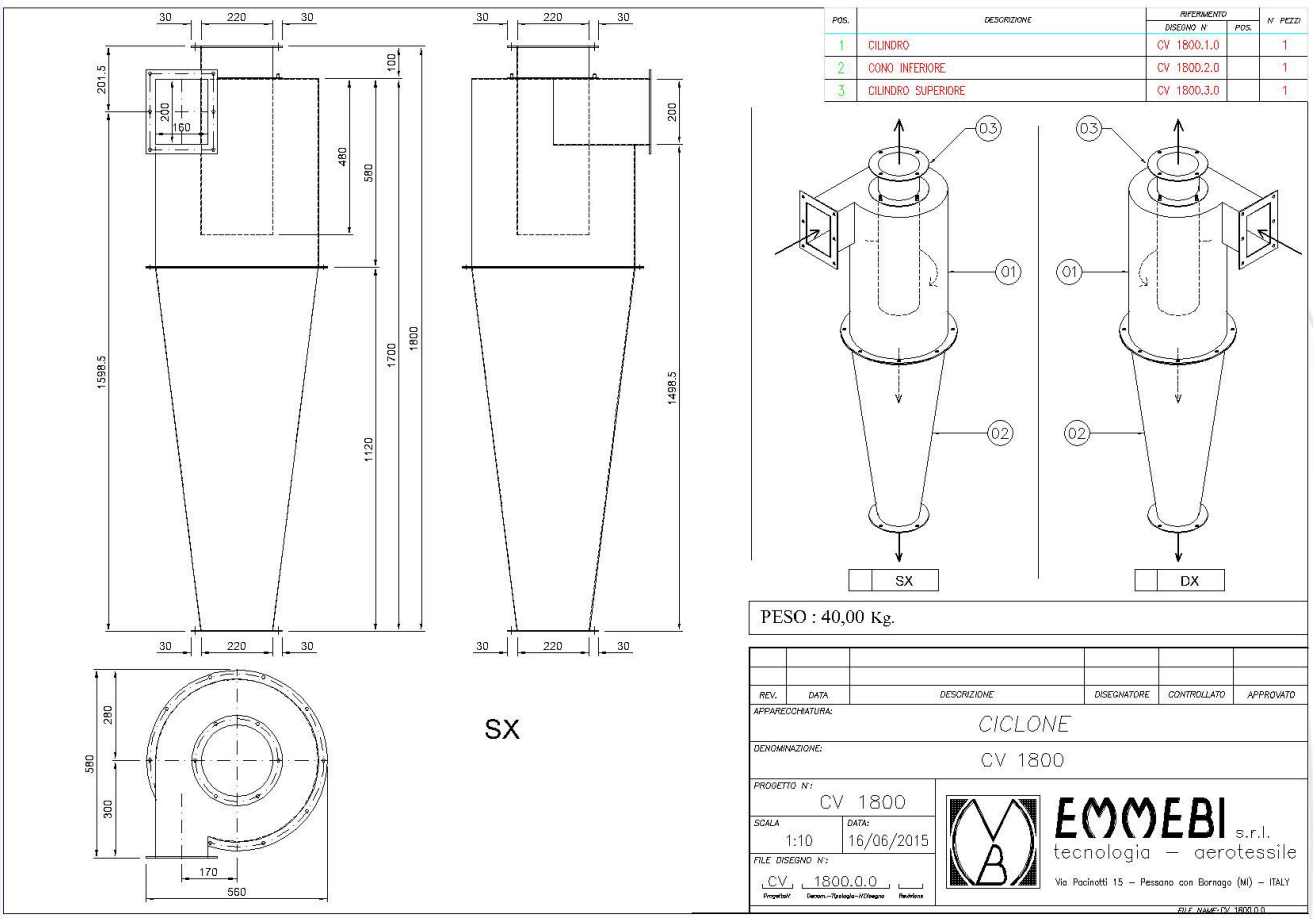
SX


30
220
30
201.5
200
160
100
480
580
1700
1800
1598.5
1120
1498.5
280
580
300
170
560
SX
POS.
DESCRIZIONE
RIFERIMENTO
DISEGNO N
POS.
N° PEZZI
1 CILINDRO CV 1800.1.0 1
2 CONO INFERIORE CV 1800.2.0 1
3 CILINDRO SUPERIORE CV 1800.3.0 1
03
01
02
SX
DX
PESO : 40,00 Kg.
REV.
DATA
DESCRIZIONE
DISEGNATORE
CONTROLLATO
APPROVATO
APPARECCHIATURA:
CICLONE
DENOMINAZIONE:
CV 1800
PROGETTO N°:
CV 1800
SCALA
1:10
DATA:
16/06/2015
FILE DISEGNO N°:
CV
1800.0.0
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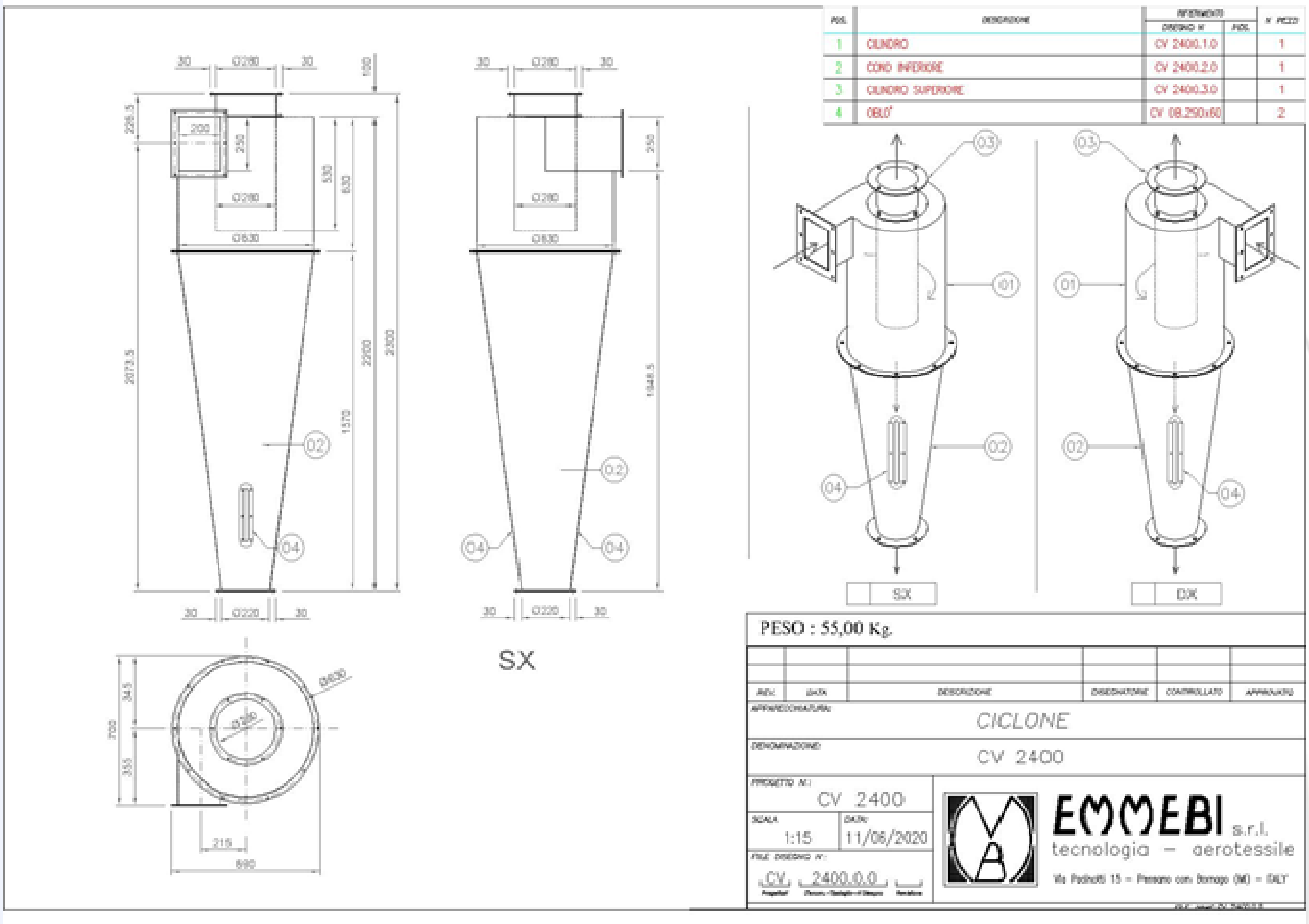
SX
DX
PESO : 55,00 Kg.
CICLONE
CV 2400
CV 2400
1:15
11/06/2020
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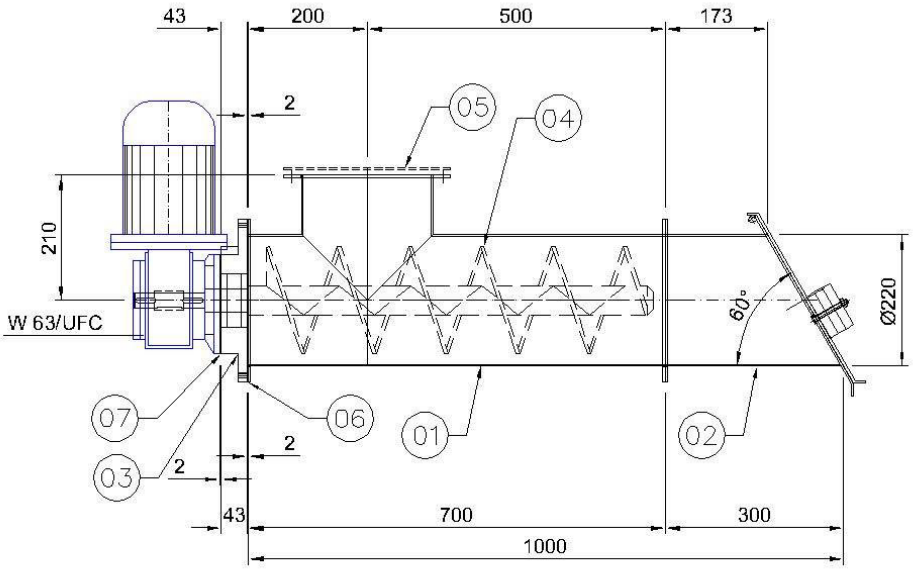
POS.	DESCRIZIONE	RIFERIMENTO		N° PEZZI
		DISEGNO N°	POS.	
1	TRONCO COCLEA	VC 220.1.0		1
2	TRONCO DI SCARICO	VC 220.2.0		1
3	FLANGIA / SUPPORTO CUSCINETTO	VC 220.3.0		1
4	COCLEA	VC 220.4.0		1
5	FLANGIA COLLEGAMENTO APPARECCHIATURA	VC 220.5.X		1
6	FLANGIA Ø220 BLOCCA CUSCINETTO	VC 220.6.1		1
7	FLANGIA Ø180 BLOCCA CUSCINETTO	VC 220.6.2		1



PESO : .... Kg.

REV.	DATA	DESCRIZIONE	DISEGNATORE	CONTROLLATO	APPROVATO

APPARECCHIATURA: VALVOLA COMPATTATRICE

DENOMINAZIONE: VC 220

PROGETTO N°: VC 220

SCALA: 1:10

DATA: 21/09/12

FILE DISEGNO N°: VC (Progetto N°) 220.0.0 (Denom.–Tipologia–N° Disegno) (Revisione)

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FILE NAME: VC 220.0.0

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SPARE PARTS LIST

pos	ITEM	CVC 600	CVC 800	CVC 1000	CVC 1800	CVC 2400
1	Gear Motor 	n.1 0,75 kW	n.1 0,75 kW	n.1 0,75 kW	n.1 0,75 kW	n.1 0,75 kW
2	Bearing 40-90 	n.1 63082 RS	n.1 63082 RS	n.1 63082 RS	n.1 63082 RS	n.1 63082 RS
3	Dust sealers for bearing 40-90 	n.2 40-90-10	n.2 40-90-10	n.2 40-90-10	n.2 40-90-10	n.2 40-90-10
4	Iron Screw - Cochlea 	n.1	n.1	n.1	n.1	n.1

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