

## **PRICES**

- 5 Kg INGOT CASTING MACHINE: 35.000 EUR
- 10 Kg INGOT CASTING MACHINE 35.000 EUR
- DROSS CLEANER: 70.000 EUR
- HOLDING FURNACE: 72.000 EUR
- INDUCTION FURNACE: 270.000 EUR
- FURNACE CHARGER: 25.000
- AIR COMPRESSORS: 8.500 EUR
- DRY CHANNEL ASPIRATION: 180.000 EUR
- POST COMBUSTION CAPTURE: 200.000 EUR

Description of machinery in following pages

## **5 Kg INGOT CASTING MACHINE TECHNICAL SUMMARY**

- **MANUFACTURER: INGOTECH**

Ingot weight: 5 kg

Number of moulds: 150 moulds

Casting index: 5 Mt/h

Casting system: Star Wheel

Flux control valve, with rise and descent mechanism of ceramic closure.

## **DROSS CLEANER TECHNICAL SUMMARY**

- **Manufacturer: TOMORROW TECHNOLOGY**

- **HYDRAULIC SWITCHBOARD:**

- **Manufacturer: CAR TECHNO**
- **Capacity: 150 L**
- **Maximum pressure: 150 bar**

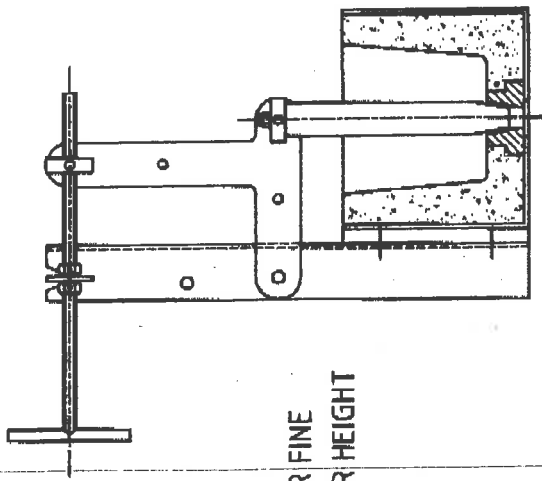
- **HYDRAULIC CIRCUIT:**

- **Manufacturer: SAMHYDRAULIK**
- **Type of double puma: SH5V/50 CDX**
- **Pump: variable cubic capacity (max. 50cc)**
- **Max. pressure of circuit: 150 bar**

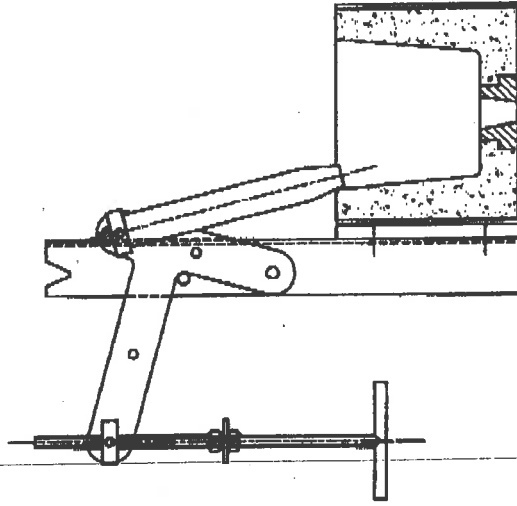
- **ELECRIC SYSTEM:**

- **Supply voltage: 400V – AC / 3 phases / 50 HZ**
- **Auxiliary circuit: 24 V**
- **Installed power: 11 KW**

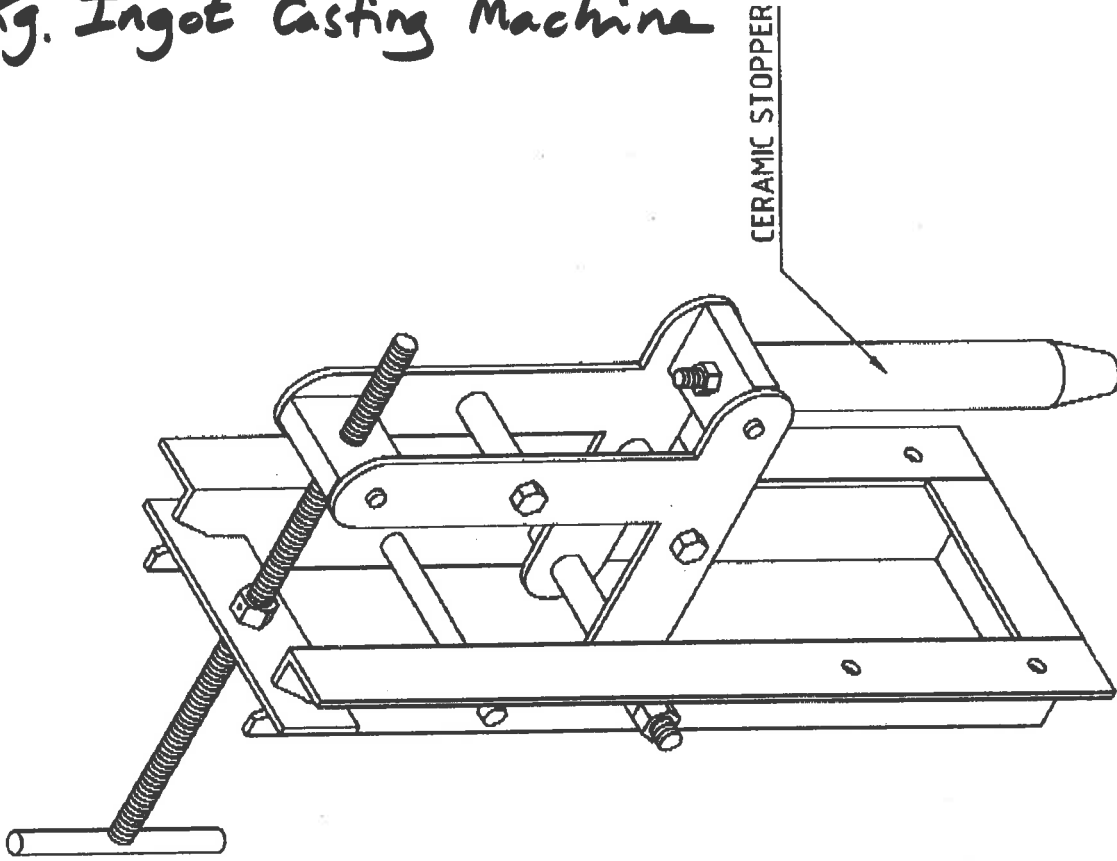
# 5 Kg. Ingot Casting Machine



WORKING POSITION  
TURN SCREW THREAD FOR FINE  
ADJUSTMENT OF STOPPER HEIGHT



LIFT THE LOOSE TOP  
PLATE OUT OF IT'S  
SEAT AND SWING THE  
ARM BACK TOWARDS  
YOU TO ALLOW  
ACCESS TO THE HOLE  
FOR CLEANING ETC.



**INGOTECH METAL SERVICES** The Gearworks,  
Salem Street, Etruria, Stoke on Trent, Staffs. ST8 7BE, England.

Title Flow Control Valve - Illustration

Customer Standard Drawing

Drawn

M Taylor

Date

04/10/01

Scale

1:6

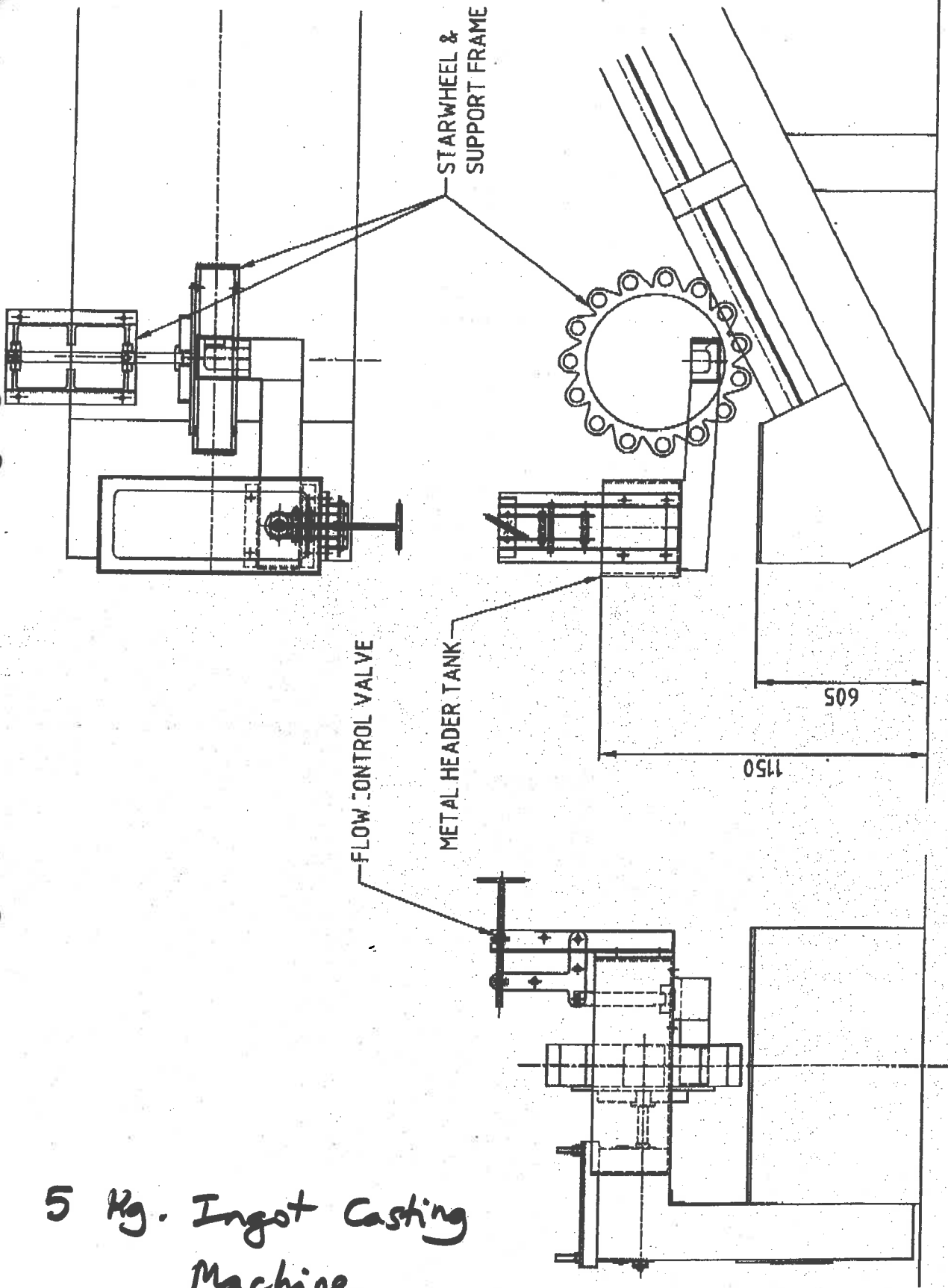
Issue

B

Dwg N°

A4-675

5 Kg. Ingot Casting Machine

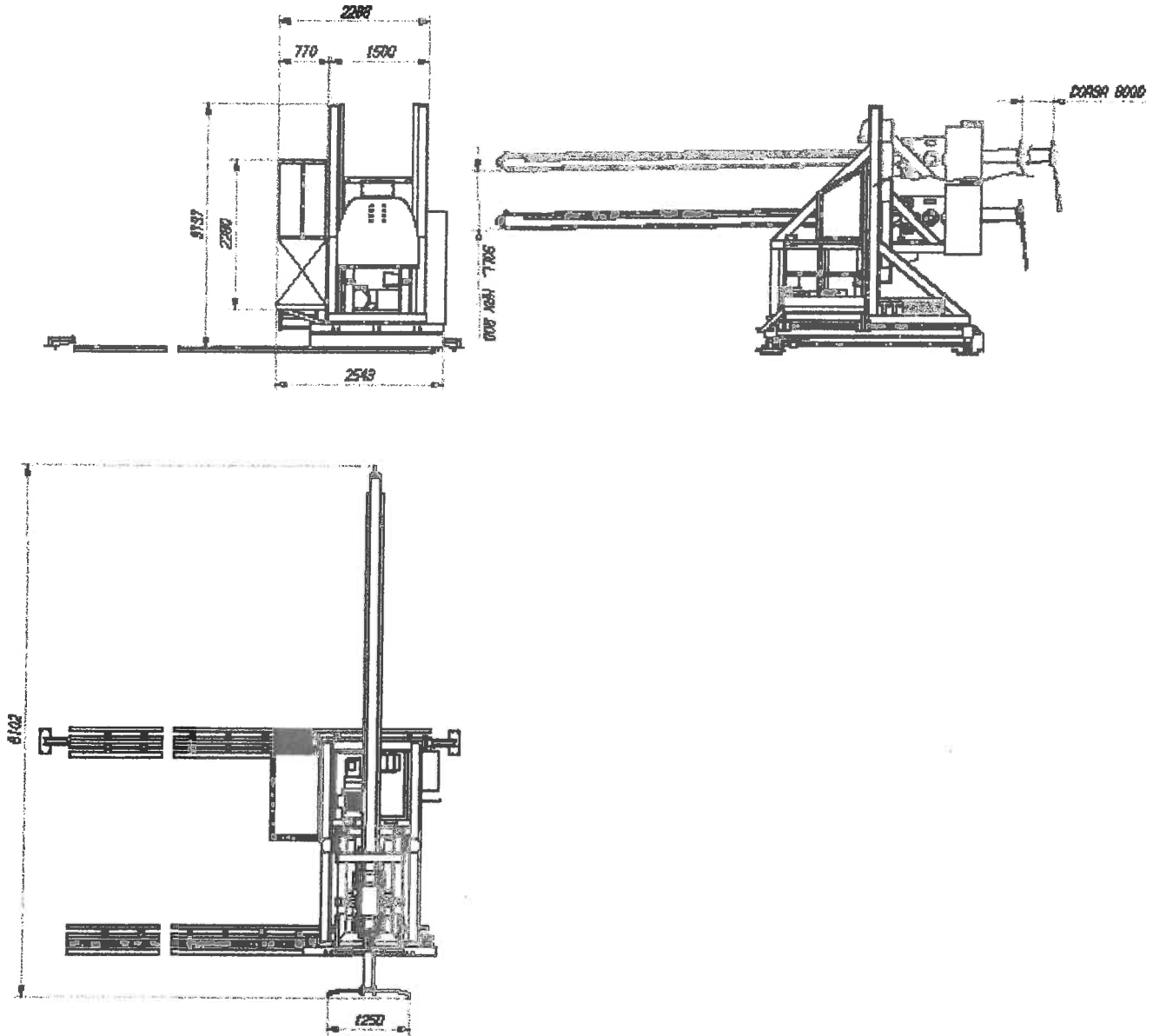


<b>INGOTECH METAL SERVICES</b> The Gearworks, Salem Street, Etruria, Stoke on Trent, Staffs. ST15PR, England		Title Starwheel Pouring System Arrangement	Drawn M Taylor	Date 11/08/03	Scale 1:20	Issue A	Dwg N° A4-849
		Customer FERROVAS, S.L.					

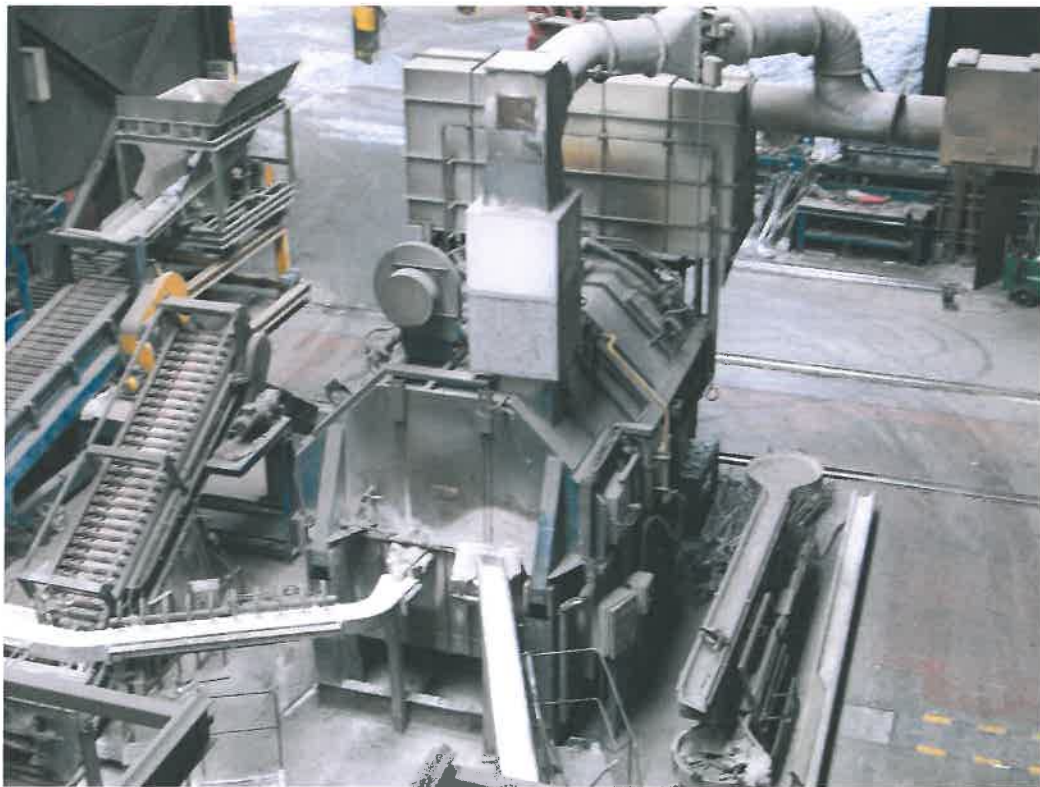


**DROSS CLEANER**

#### 4. DIMENSIONES MÁXIMAS



## HOLDING FURNACE



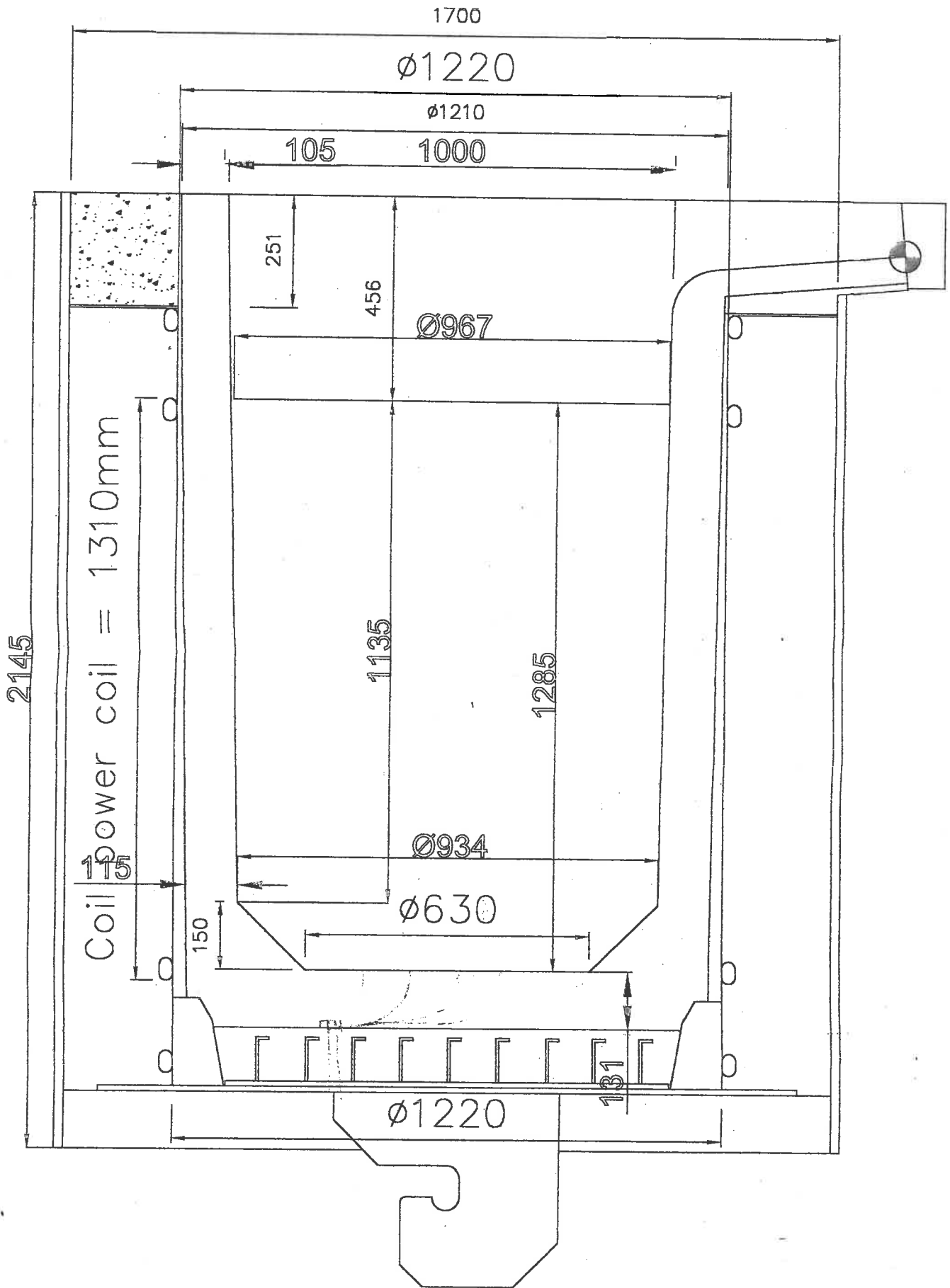
Capacity: 6 MT

## INDUCTION FURNACE TECHNICAL SUMMARY

- MANUFACTURER: TAYLORMADE INDUCTION Ltd
- MODEL: MS6 tilting furnace
- MAXIMUM OUTPUT POWER: 1.500 KW
- MINIMUM FREQUENCY: 150 HZ
- MAXIMUM FREQUENCY: 250 HZ
- NOMINAL FREQUENCY: 200 HZ
- INPUT VOLTAGE: 600 V, 3 phases
- CONVERTER OUTPUT: 96%
- DIMENSIONS: See attached plan



# INDUCTION FURNACE DIMENSIONS



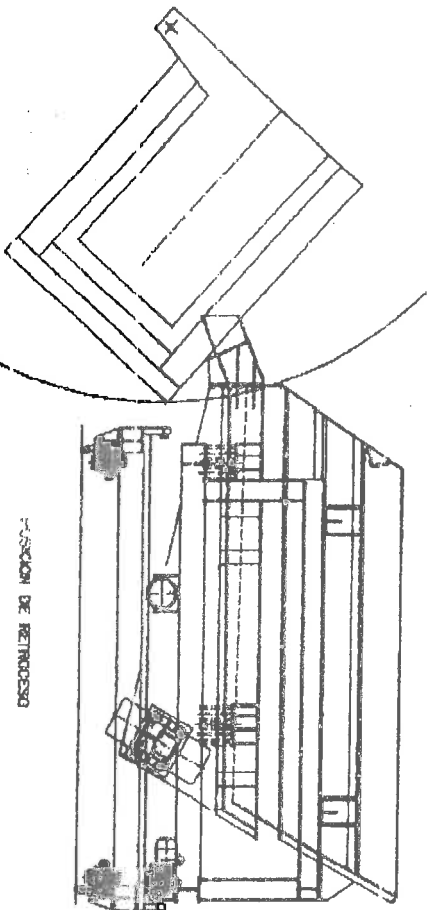
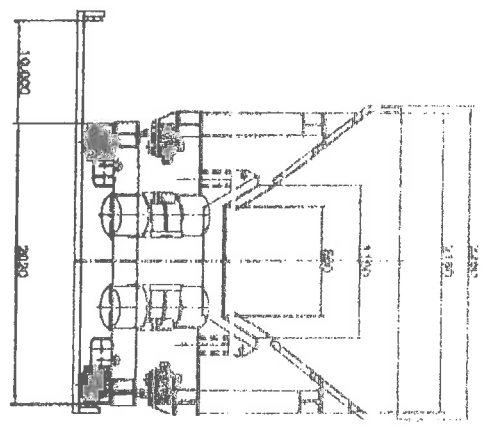
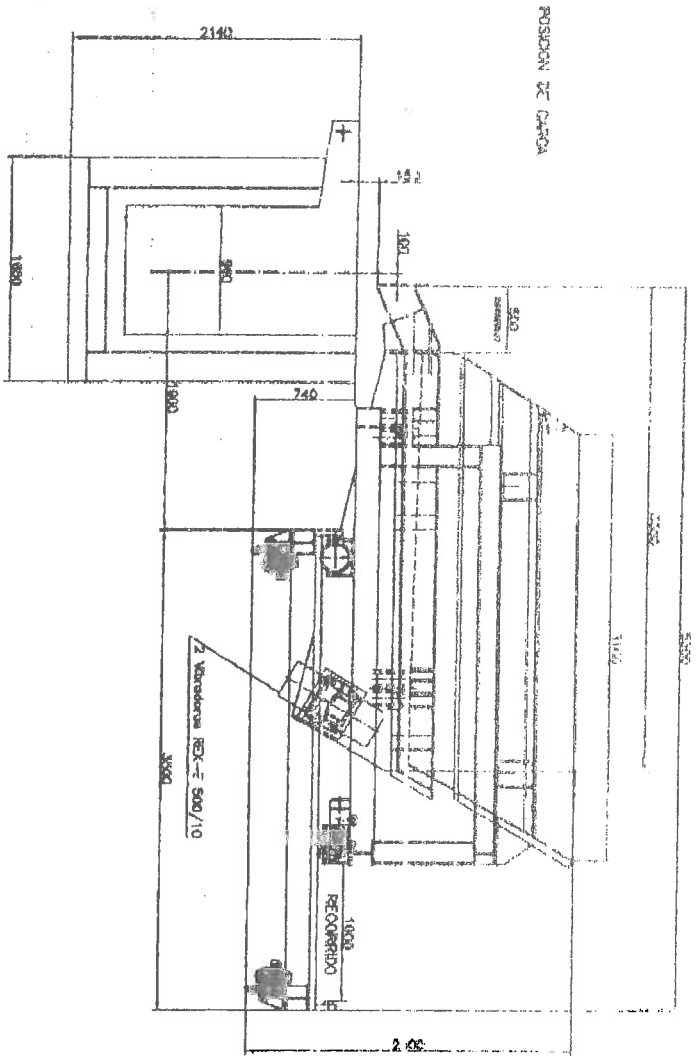
## FURNACE CHARGER TECHNICAL SUMMARY

- MANUFACTURER: URBAN
- MODEL: RBA 80 – 110/356
- TRAY MATERIAL: carbon steel
- TOTAL WEIGHT: 5170 kg
  
- EXTERNAL ELECTRICAL VIBRATORS: REX E 500/10
- NUMBER OF VIBRATORS: 2
- SPINNING SPEED: 1000 rpm
- VOLTAGE: 230/400 V
- INTENSITY: 4 A/ vibrator
- FREQUENCY: 50HZ
- POWER 3,59 KW
  
- SPEED VARIATOR: VAT 2000 (GE Power controls)
- MODEL: 2000 – U2KX05K5S
- INPUT: 380/480 V /// 50 - 60 HZ
- NOMINAL CURRENT: 12,5 A (constant pair) /// 16,6 A (variable pair)
- OUTPUT: 380/480 V /// 0,1 – 440 HZ
- NOMINAL CURRENT: 13 A (constant pair) /// 17 A (variable pair)
  
- CART DIMENSIONS: See attached plan
- VIBRATOR DIMENSIONS: See attached plan



**FURNACE CHARGER**





URBANA		CARGADOR RBA 80-110/255		CODIGO 2º	
Modelo	Fecha Entrega	Montaje o	Instalación	Dispositivo para	
1/20					

## AIR COMPRESSORS TECHNICAL SUMMARY

- MANUFACTURER: PUSKA PNEUMATIC
- EQUIPMENT:
  - RT 20-30/8
    - Max. pressure: 8 bar
    - Max. service pressure: 8 bar
    - Voltage / Phase / Frequency: 400 V / 3 / 50 Hz
    - Motor nominal power: 22,5 kW
  - RL 40/10
    - Max. pressure: 10 bar
    - Max. service pressure: 10 bar
    - Voltage / Phase / Frequency: 400 V / 3 / 50 Hz
    - Motor nominal power: 30 kw
  - DRYER PLX – 52 A8
    - Voltage / Frequency / Motor power: 230 V / 50 Hz / 1,58 kw
    - Max. pressure: 13 bar
    - Working pressure: 13 bar
    - Max Temp. interior: 55 °C
    - Max Temp. environment: 43 °C
  - DRYER PLX 52 D8
    - Voltage / Phase / Frequency: 230 V / 1 / 50 Hz
    - Max. pressure: 16 bar
    - Working pressure: 16 bar
    - Nominal power : 0,918 kW
    - Brake kind / quantity : R134 a / 0,750

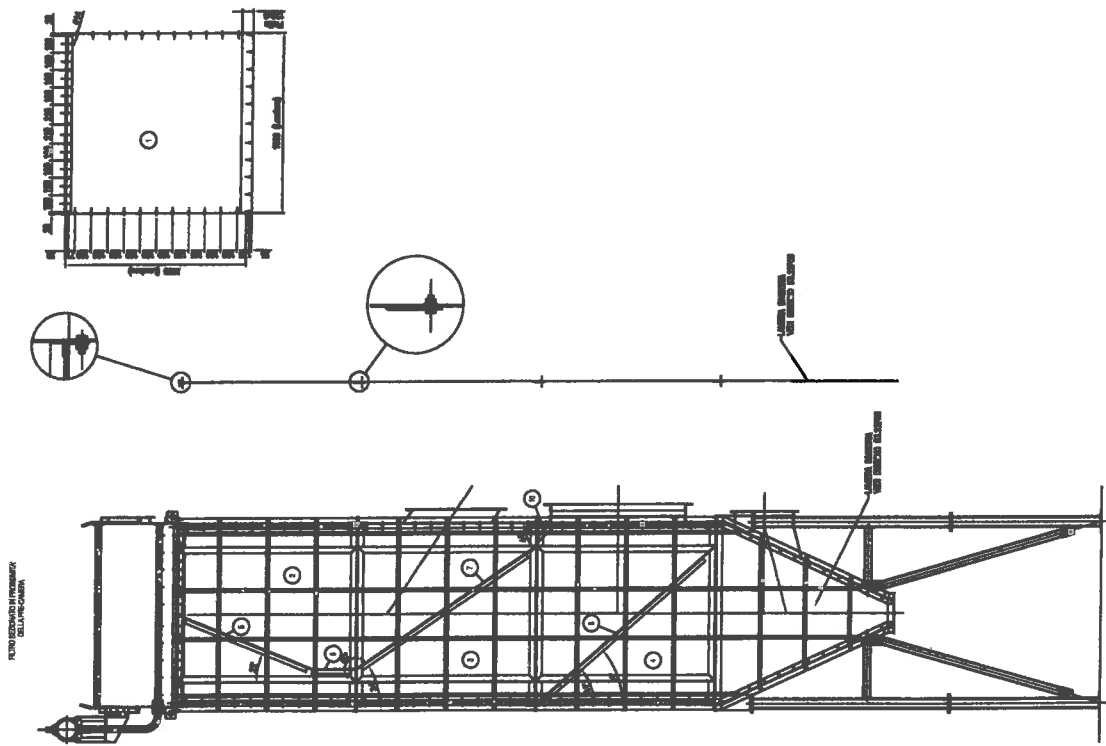
## **DRY CHANNEL ASPIRATION TECHNICAL SUMMARY**

- MANUFACTURER: ENERCON
- BAG FILTER: ENERJET 48/12 PA 2600
  - FILTER UNIT CHARACTERISTICS:
    - Nominal Flow: aprox. 13.000 Nm<sup>3</sup>/h
    - Functioning temperature: 20°C
    - Number of bags: 144
    - Filtrating surface: 144 m<sup>2</sup>
    - Diameter and length of bag: 123x2620 mm
    - Filter density: 500 gr/m<sup>2</sup>
    - Total powder in discharge <10 mg/m<sup>3</sup>
    - Load loss: 100-150 mmca
    - Filtration speed: 1,5 m/min.
    - Cleaning: counterpressure
    - Consumption compressed air: 150 Nliters/m<sup>2</sup>h
  
  - MOTOVENTILATOR SET:
    - Nominal Flow: aprox. 15.000 Nm<sup>3</sup>/h
    - Installed power: 30KW
    - Total pressure: 500 mm c. a
  
  - PLANS: see attached



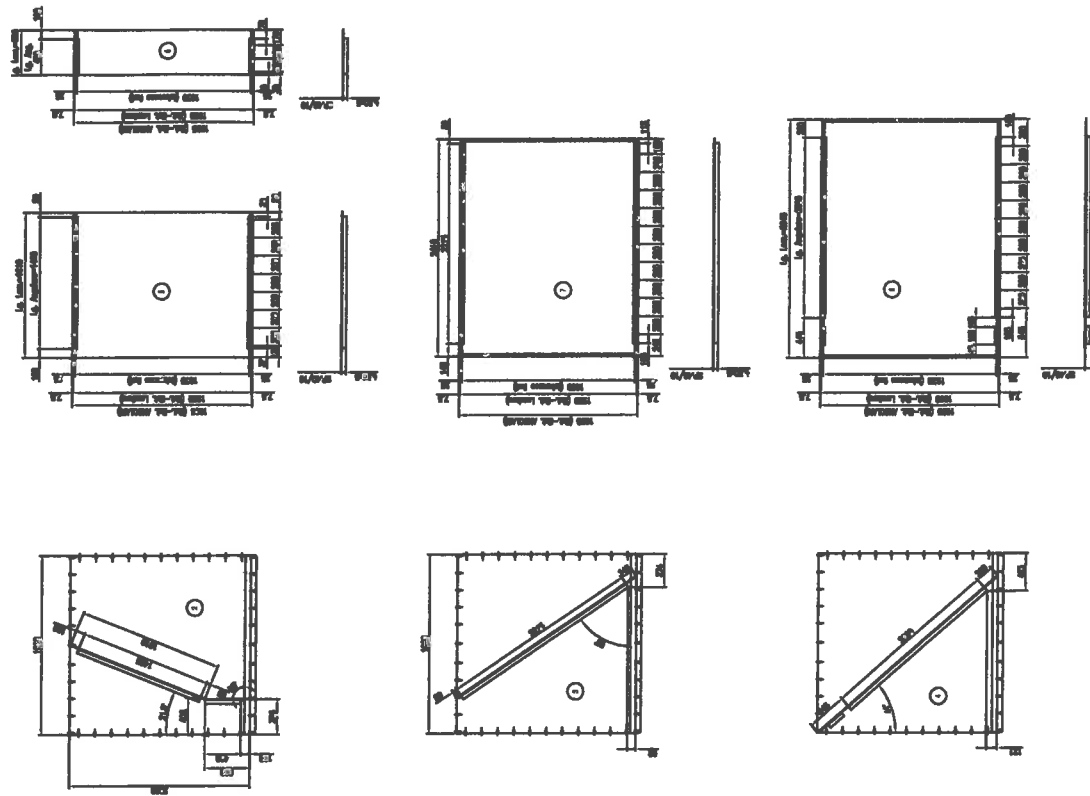
**DRY CHANNEL ASPIRATION**

LAMIERA DIVISORE PER FILTRO

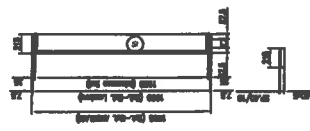


PISTOIA RESERVATOIO DI FUMI  
CELLA CAMERA

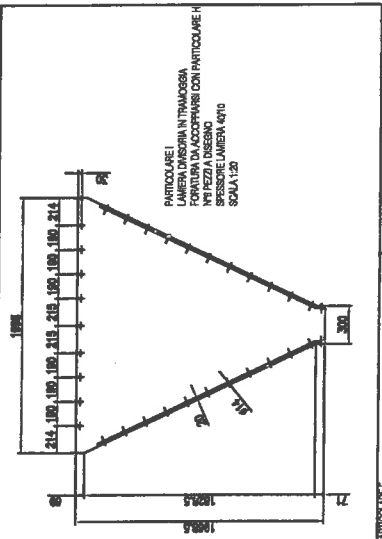
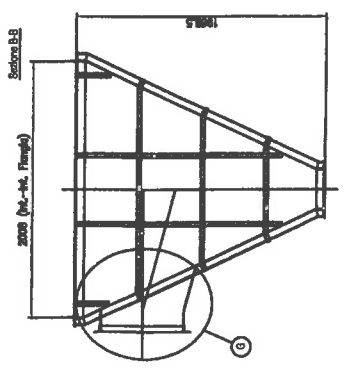
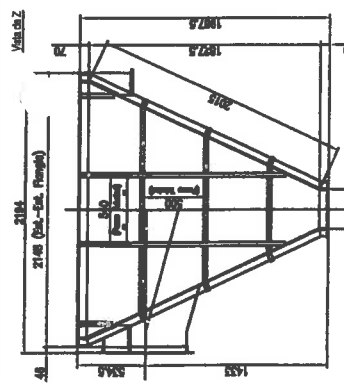
LAMIERA DIVISORE PER PRE-CAMERA



ATTENZIONE:  
FORI PASSANTI Ø14 PER VITE M12



NO.	DESCRIZIONE	Q.TA.	UNITA'	REVISIONE	DATA
1	LAMIERA DIVISORE PER PRE-CAMERA	1	PC	1	10/10/00
2	LAMIERA DIVISORE PER FILTRO	1	PC	1	10/10/00
3	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
4	CELLA CAMERA	1	PC	1	10/10/00
5	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
6	CELLA CAMERA	1	PC	1	10/10/00
7	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
8	CELLA CAMERA	1	PC	1	10/10/00
9	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
10	CELLA CAMERA	1	PC	1	10/10/00
11	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
12	CELLA CAMERA	1	PC	1	10/10/00
13	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
14	CELLA CAMERA	1	PC	1	10/10/00
15	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
16	CELLA CAMERA	1	PC	1	10/10/00
17	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
18	CELLA CAMERA	1	PC	1	10/10/00
19	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
20	CELLA CAMERA	1	PC	1	10/10/00
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22	CELLA CAMERA	1	PC	1	10/10/00
23	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
24	CELLA CAMERA	1	PC	1	10/10/00
25	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
26	CELLA CAMERA	1	PC	1	10/10/00
27	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
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40	CELLA CAMERA	1	PC	1	10/10/00
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47	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
48	CELLA CAMERA	1	PC	1	10/10/00
49	PISTOIA RESERVATOIO DI FUMI	1	PC	1	10/10/00
50	CELLA CAMERA	1	PC	1	10/10/00



Vista ab Z

TUBOLINI SCAMICATI PER ANGOLO 45°/45°

2148 (Det.-Det. Fianco)

2000 (Det.-Det. Fianco)

PARTICOLARE I  
ENTRATA IN TRAMOGGERA  
FORATURA DA ACCOPPIARE CON PARTICOLARE I  
N°1 PEZZI A DISEGNO  
SPESORE LAMIERA 4/10  
SCALA 1:20

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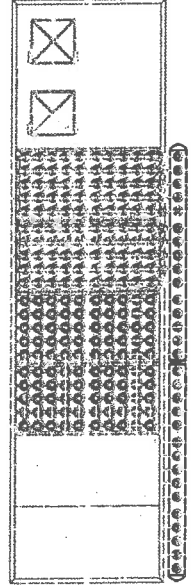
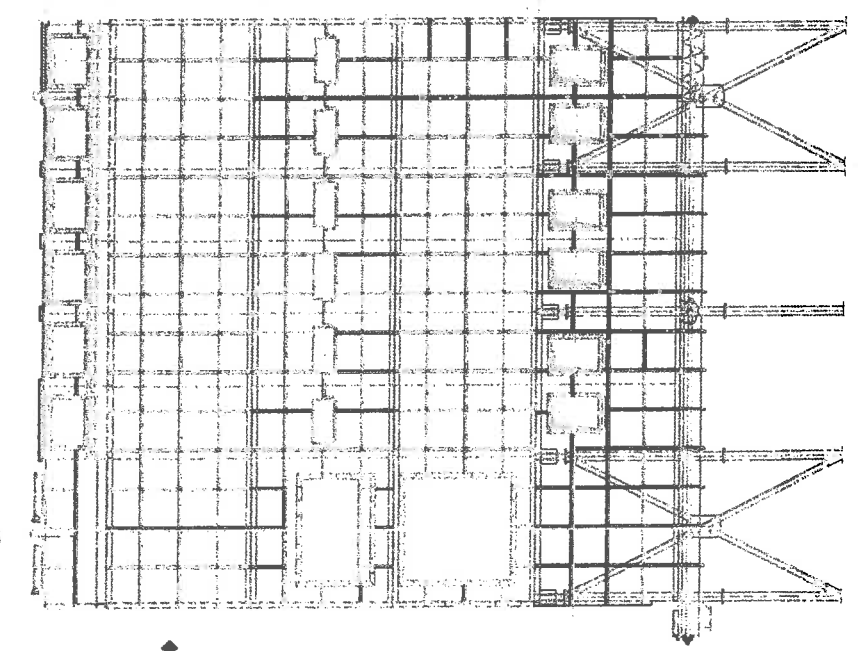
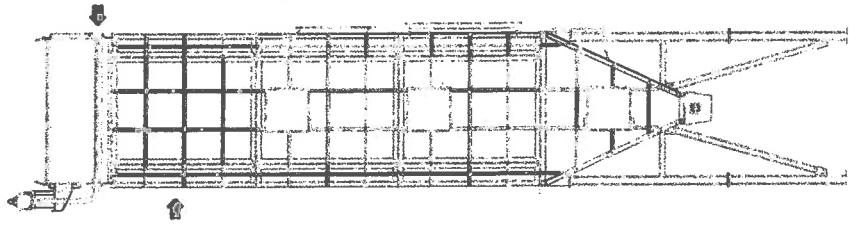
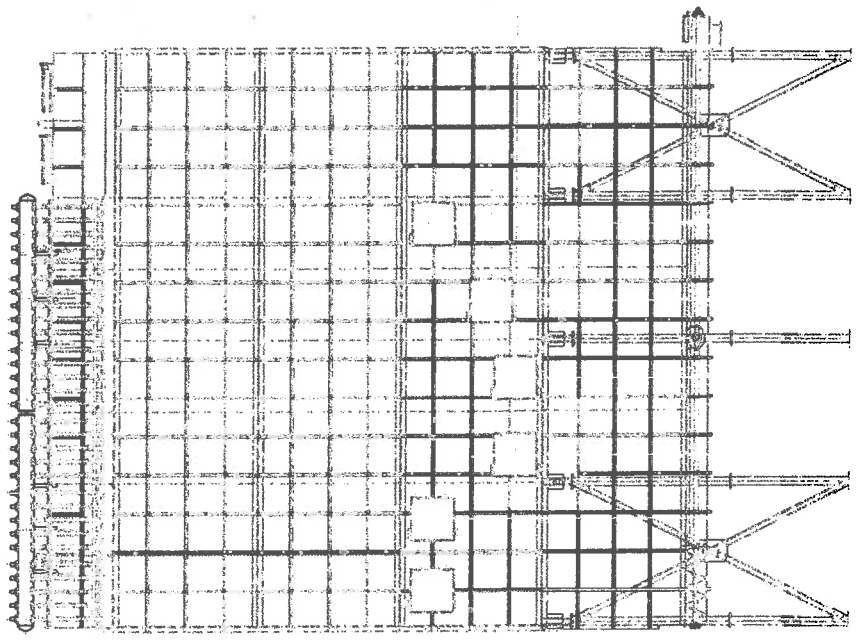
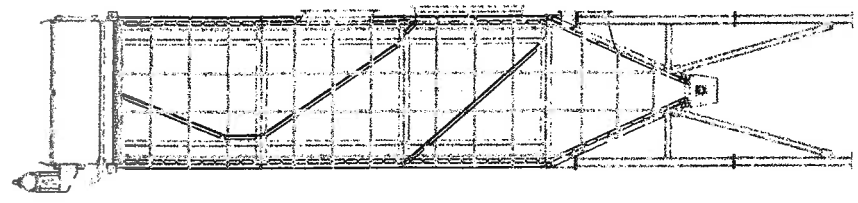
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	<b>FERROVAS</b> Tratta <b>ASSEMBLAGGIO FILTRO 300 MANICHE</b>		Scale	Disegno	Data	Emesso
			1:50	1/19/05/03	1/19/05/03	
<small>ENERCON è un marchio di ENEL          la proprietà è riservata. È vietata la ristampa o l'uso non autorizzato senza permesso scritto dalla ENEL.</small>		1/19/05/03 1/19/05/03	53,22 53,22	F F	08 08	

## **POST COMBUSTION CAPTURE TECHNICAL SUMMARY**

- MANUFACTURER: FIVEMASA
- COMBUSTION CAMERA: QMD – 07041
- BURNER: Eclipse TJ – 500 MBHN – BX
- CAPTURE FAN: VR – R45/335  
Motor 15 CV
- EXCHANGER FAN: VR – R25/250  
Motor 40 CV
- HEAT SENSORS
- REFRIGERATING TOWER: TR1-36-6000  
Cooling fan: VR-R71/630  
Motor 10 CV  
Forced flue fan: VR-R35/250  
Motor 7,5 CV



**POST COMBUSTION CAPTURE**