

**COMPLETE SECOND HAND**  
**BRICKS PRODUCTION LINE**

**ENCLOSURE No. 1**  
**TECHNICAL DESCRIPTION**

**1. PLANT DESCRIPTION**

**1.1 CLAYS PREPARATION**

NR. 1 BOX FEEDER mt 6x 0,9 robust conic machine with double motorization for the carpet KW5,5 and the line reel KW 3. 4 gears for carpet speed variations and wall recordable in height, double screw control. Rubber carpet with curve sheet panels and reinforced rubber retainings, lateral iron sheets supported by out of gear small wheels, all the gears are milled and lubricated, with pump and dispenser complete with security joint installed on the pulley which causes the automatic stop in case of emergency.

CHARGE HOPPER

STEEL SUPPORTING STRUCTURE

NR. 1 BOX FEEDER mt 4x 0,9 robust conic machine with double motorization for the carpet KW5,5 and the line reel KW 3. 4 gears for carpet speed variations and wall recordable in height, double screw control. Rubber carpet with curve sheet panels and reinforced rubber retainings, lateral iron sheets supported by out of gear small wheels, all the gears are milled and lubricated, with pump and dispenser complete with security joint installed on the pulley which causes the automatic stop in case of emergency.

CHARGE HOPPER

STEEL SUPPORTING STRUCTURE

NR. 1 CONVEYOR BELT in rubber, fishbone mt 12x0.80 to feed the disintegrator, complete with motor basis KW 2,5 , anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter

CHARGE AND DISCHARGE HOPPER

NR. 1 PRIMARY CRUSHER BALLATORE 450X100 mt 2x4.5 robust machine with double motorization KW 9 + KW 3, double screw control for the load regulation. All the gears are milled and lubricated,

with pump and dispenser complete with security joint installed on the pulley which causes the automatic stop in case of emergency.

CHARGE HOPPER

STEEL SUPPORTING STRUCTURE

NR. 1 CONVEYOR BELT in rubber, fishbone mt 12x0.80 to feed the extruder and filter mixer, complete with motor basis KW 2,5 , anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter

CHARGE AND DISCHARGE HOPPER

NR. 1 EXTRUDER AND FILTER MIXER BAGNATORE BEDESCHI CG 3500S

Machine apt to mix different clays with different qualities , complete with automatic water usage in different proportions. Machine directly fed by the box feeder. The mixing blades are made in stainless steel, reducer in oil bath with hermetic retainings. Roller bearings, Ni-Cr-Mo with stainless steel alloys gears, all the pinions in cast steel.

Machine complete with assembled metal basis. KW 15

CHARGE HOPPER

STEEL SUPPORTING STRUCTURE

NR. 1 CONVEYOR BELT in rubber, mt 24x0.90 for the edge runner mill Bongiovanni feeder, complete with motor basis KW 3,5 , anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter

CHARGE AND DISCHARGE HOPPER

NR. 1 EDGE RUNNER MILL BONGIOVANNI 30 M for the mixing and crushing of the different clays, complete with speed automatic rotation for the different types of production or mixtures with or without the use of water in different proportions. Machine directly fed by the conveyor belts coming from the box feeder. The millers are enlivened by reducers in oil with hermetic retaining. Roller bearings, Ni-Cr-Mo with stainless steel alloys gears, all the pinions in cast steel.

Machine complete with assembled metal basis. KW 40

CHARGE HOPPER

STEEL SUPPORTING STRUCTURE

NR. 1 CONVEYOR BELT in rubber, mt 10x1 for the roller mill feeding, complete with motor basis KW 3,5 , anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter

CHARGE AND DISCHARGE HOPPER

NR. 1 ROLLER MILL MORANDO LA 7 dia. mm 900 x 650 for the working of wet or semi-wet clays with damaging grains of silica lime. It must be continuously fed, the rollers work with a high grade of refining, operating with a gauge between the cylinders inferior than a millimeter  
Monocontrol with dimensioned structure for the difficult working conditions. Installed power KW 45  
CHARGE HOPPER

STEEL SUPPORTING STRUCTURE

NR. 1 CONVEYOR BELT in rubber, mt 28x0,60 for the roller mill feeding, complete with motor basis KW 3,5 , anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter  
CHARGE AND DISCHARGE HOPPER

NR. 1 CONVEYOR BELT in rubber, mt 6x0,60 for the roller mill feeding, complete with motor basis KW 2, anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter  
CHARGE AND DISCHARGE HOPPER

STRUCTURE for belts support with inclined adjustable feet, complete with earth fixing.  
Set for all the belts.

ELECTRICAL PLANT complete with:

- General panel 380 volt 50 Hz
- Transformation panel low tension 24V 50 Hz – Possibility to work manually or in automatic – cables, sheaths, connectors, protections and subboard- controls to all the motorizations.

## **1.2 FEEDING FOR EXTRUSION ROOM**

NR. 1 BOX FEEDER mt 6x 0,9 robust conic machine with double motorization for the carpet KW5,5 and the line reel KW 3. 4 gears for carpet speed variations and wall recordable in height, double screw control. Rubber carpet with curve sheet panels and reinforced rubber retainings, lateral iron sheets supported by out of gear small wheels, all the gears are milled and lubricated, with pump and dispenser complete with security joint installed on the pulley which causes the automatic stop in case of emergency.

CHARGE HOPPER

STEEL SUPPORTING STRUCTURE

NR. 1 CONVEYOR BELT in rubber, mt 10x1 for the roller mill feeding, complete with motor basis KW 4,5, anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter

CHARGE AND DISCHARGE HOPPER

NR. 1 ROLLER MILL MORANDO LA 7 dia. mm 900 x 650 for the working of wet or semi-wet clays with damaging grains of silica lime. It must be continuously fed, the rollers work with a high grade of refining, operating with a gauge between the cylinders inferior than a millimeter

Monocontrol with dimensioned structure for the difficult working conditions. Installed power KW 45

CHARGE HOPPER

STEEL SUPPORTING STRUCTURE

STRUCTURE for belts support with inclined adjustable feet, complete with earth fixing.  
Set for all the belts.

NR. 1 CONVEYOR BELT in rubber, mt 13x0,8 for the roller mill feeding, complete with motor basis KW 2,5, anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter

CHARGE AND DISCHARGE HOPPER

NR. 1 EXTRUDER AND FILTER MIXER BAGNATORE BEDESCHI CG 3500 S

Machine apt to mix different clays with different qualities , complete with automatic water usage in different proportions. Machine directly fed by the box feeder. The mixing blades are made in stainless steel, reducer in oil bath with hermetic retainings. Roller bearings, Ni-Cr-Mo with stainless steel alloys gears, all the pinions in cast steel.

Machine complete with assembled metal basis. KW 15

CHARGE HOPPER

STEEL SUPPORTING STRUCTURE



NR. 1 CONVEYOR BELT in rubber, mt 20x0,8 for brick machine, complete with motor basis KW 2,2, anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter each.  
CHARGE AND DISCHARGE HOPPER

NR. 1 CONVEYOR BELT in rubber, mt 6x0,8 for the feeding of the brick machine's box feeders, reversible type, complete with motor basis KW 1,5, anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter  
CHARGE AND DISCHARGE HOPPER

ELECTRICAL PLANT complete with:

- General panel 380 volt 50 Hz
- Transformation panel low tension 24V 50 Hz – Possibility to work manually or in automatic – cables, sheaths, connectors, protections and subboard- controls to all the motorizations.

### **1.3 CUT AND EXTRUSION ROOM**

NR. 1 BOX FEEDER mt 4x 0,9 robust conic machine with double motorization for the carpet KW5,5 and the line reel KW 3. 4 gears for carpet speed variations and wall recordable in height, double screw control. Rubber carpet with curve sheet panels and reinforced rubber retainings, lateral iron sheets supported by out of gear small wheels, all the gears are milled and lubricated, with pump and dispenser complete with security joint installed on the pulley which causes the automatic stop in case of emergency.

CHARGE HOPPER

STEEL SUPPORTING STRUCTURE

NR. 1 CONVEYOR BELT in rubber, mt 6x0,8 for the feeding of the brick machine's box feeders, reversible type, complete with motor basis KW 1,5, anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter

CHARGE AND DISCHARGE HOPPER

NR. 1 BRICK MACHINE BEDESCHI type MVM400X450mm with blades 550/400mm, lateral superior extrusion machine and with degasifier- vacuum pump in automatic, guided through control electrical panel with power inverters. Big surface of the vacuum grates, free passage of the clays through the line reels on the whole blade length with consequent filling of the extrusion machine. The result will be a long exiting extrusion. KW 112,5

NR. 1 CONVEYOR BELT in rubber, mt 4x0,6 for the connection of the cut area, reversible type, complete with motor basis KW 1, anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter

CHARGE AND DISCHARGE HOPPER

NR. 1 CONVEYOR BELT in rubber, mt 20x0,6 for the connection of the cut area, reversible type, complete with motor basis KW 1, anti-return reducer with speed regulation through inverter, moulded main structure mt 4 each, with triple rollers in series of 1 meter

CHARGE AND DISCHARGE HOPPER

NR. 1 ROLLER CONVEYOR FOR THE EXTRUDED PIECES TRANSPORT, with coupling for the cut machine in battery, with rotating disc and encoder rollers, installed power KW 1,5

ELECTRICAL PLANT complete with:

-General panel 380 volt 50 Hz

-Transformation panel low tension 24V 50 Hz – Possibility to work manually or in automatic – cables, sheaths, connectors, protections and subboard- controls to all the motorizations.

SUPPORT STRUCTURES for the belts with inclined adjustable feet

MULTIPLE CUT MACHINE for full-pierced bricks with single-multiple clay-column, motors with inverters for the control of the speeds, power panel with OMRON programmable CPU and visual display. KW 2,25

Nr. 1 FEEDING BELT mt.2x0,4 with all motorized rollers with step-by-step transport system for continuous extrusion and for the automatic charging of the bricks on discs.

#### **1.4 STORAGE AREA**

CHAINS-TRANSPORT BELT for the connection to the charging machine from cut machine continuous exit. Main structure in zinc coated steel and connected modules. Motorization and inverters.  
Installed power KW 3

NR. 1 CHARGE MACHINE for bricks or extruded material on the car planes for the drying. With two spindle lateral arms with double motorization to transfer the bricks to the car. Adjustable double column main structure support. 4 chains for the high-low movement, free rollers in the car change, motorization with reinforced rollers with double chains and motoreducers – inverters, car feeding chains, pneumatic car position stop.  
Electrical plat complete with cables, Omron general panel of the electronic power and visual display.  
Total installed power KW 10.

NR. 1 DISCHARGE MACHINE for bricks or extruded material on the car planes for the drying. With two spindle lateral arms with double motorization to transfer the bricks to the car. Adjustable double column main structure support. 4 chains for the high-low movement, free rollers in the car change, motorization with reinforced rollers with double chains and motoreducers – inverters, car feeding chains, pneumatic car position stop.  
Electrical plat complete with cables, Omron general panel of the electronic power and visual display.  
Total installed power KW 10.

NR. 1 MOBILE ROLLER CONVEYOR ELEVATOR to transfer the bricks between the fixed roller conveyor and the arms. Earth-adjustable support structure, roller motorization through double chain, complete of mechanic connection to the 2 arms supports. Total installed power KW 2,5.

BELT CHAIN for the connection for the material transport from the discharge machine to the kiln cars charge. Total installed power KW3.

ELECTRICAL PLANT for the connection to the belts with:

- General panel 380 volt 50 Hz
- Low tension transformation panel 24V 50 Hz
- Possibility to work manually or automatically
- Cables, sheaths, connectors, protections and subboard
- Controls to all the motorizations.

NR. 1 COMPENSATING MACHINE with 10 lifting levels with lateral double chain, self-braking motoreducer KW 2,5, motorized chain roller conveyor on internally reinforced rollers.

NR. 1 ROLLER CONVEYOR OF MATERIAL RECEPTION-DISCHARGE with entry or exit transport support constituted by multiple chains in rubber, motorized high-low movement. Roller conveyor for material transport with double chain on reinforced rollers. Total power KW 2,5.

NR. 1 ROLLER CONVEYOR FOR FORMING OF SQUARED BRICKS and 90 degree transfer of the material to be set in line with the holes for the drying. Complete of connections to other machines and electrical panel included. Power Kw 3

### ***1.5 DRYING AREA AND TRANSPORT OF THE MATERIAL ON THE CARS***

DRYING CARS on axial working planes with mobile wheels for the movement on the rails, bearing with anti-heath protection, closed structure, dimensions: 1600x2100x2500mm, with adjustable sides and ceiling.

NR. 1 CARS AUTOMATIC TRANSFER with double car, mechanic transmission and pushrods for the stop, motorized chain for the mobile cars charge in two positions, complete of mobile cable for the connections to the power panel. Power Kw 4,5

NR. 1 CARS AUTOMATIC TRANSFER with single car, mechanic transmission and pushrods for the stop, motorized chain for the mobile cars charge in two positions, complete of mobile cable for the connections to the power panel. Power Kw 7,5

NR. 1 PILOT and pusher in the dryer for the drying fans in battery for the hot air movement. The movement is done through automatic electrical panel.

CHAINS for the cars transport from the transfer rails for the automatic charge and discharge of the same cars

PUSHING BARS for the cars transport with oleodynamic junction box and electrical panel, cables, sheaths and all the connections to the start-stop-emergency points.

RAILS for the cars transfer with supporting frame

ELECTRICAL PANEL with cables, sheaths, connectors, protections and automatic and manual subboard

**TUNNEL DRYER IN LINE COMPLETE OF GENERATOR:**

**TECHNICAL CHARACTERISTICS:**

DRYER TYPE:	tunnel type, with continuous or semi continuous functioning monochannel our type ET/60/2C length about 60.000 mm - External width about 5.500 mm
PRODUCTION TYPE:	pierced bricks basis size 300x240x140 kg. 10 each fired piece
PRODUCTION:	150.000-180.000 kg/day 15.000-18.000 pieces/day of the basis size
FORESEEN WORK TURNS AT THE BRICK MACHINE:	1 or 2 for 7 gg/week
HUMIDITY IN FORMING:	18-19%
DRYING CYCLE:	44 h about
CARS:	Length 2000 mm Width 1700 mm Height 2500 mm
CHARGE CAPACITY OF THE CAR:	on the basis size 300x240x140: 11 in width 6 in length 8 charge planes total n. 528 pieces/car
CARS IN THE DRYER:	n. 60 in the doublechannel dryer, subdivided in 2 rows of 30 cars
ENTERING AND EXITING DRYERS CARS:	n. 34 cars/day about
WATER QUANTITY TO ELIMINATE:	34.000/36.000 kg/day
ENERGY SOURCE:	<ul style="list-style-type: none"><li>- Kiln heath recovery</li><li>- Possible integration with hot air generator</li></ul>
THERMAL POWER:	1.500.000 kcal/h



COMBUSTIBLE: methane gas

**DRYER'S TECHNICAL DESCRIPTION:**

It is a dryer constituted by nr. 2 separated channels, where nr. 2 paired car rows will move, separated by a series of mobile fans on the rails.

***CARS ADVANCEMENT***

The cars advancement during the functioning hours of the brick machine and the discharge of the exiting cars from the dryer will be continuous (one car exits and one enters).  
During the pauses of the pieces formation, the car advancement will stop.

***DRYERS ZONES***

Each dryer channel will be composed of 2 zones:

**FIRST ZONE**

It is a delicate one, because during the first treatment the humidity will be eliminated and the pieces dimensions will shrink.

In this zone it is necessary to maintain a high degree of humidity and not to reach high temperatures. Moreover, it is necessary to avoid a too strong ventilation on the pieces, even if an air remixing is needed.

To this end several alternatives to regulate and control the emission and intake of wet and hot air are foreseen. It is possible to vary the rotation speed of the mobile fans.

**SECOND ZONE**

It is the final treating zone that could reach high temperatures and a stronger ventilation.

The hot air from the kiln/heath generator recovery will be put into the dryer through adjustable openings on the vault in correspondence to the fans between the cars.

Air will be sucked in from the lateral sides. This air will be put into the first zone of the dryer through a general piping connected to an electrofan.

***WORN-OUT AIR EXPULSION***

For each channel:

from the lateral sides of the dryer, along the first zone length, worn-out air could be sent off. through a general piping it will reach the chimney fan.

DESCRIPTION OF OUR SUPPLIES FOR THE DRYER:

- a) N. 1 hot air generator, methane combustible;
- b) N. 10 mobile ventilation groups on rails, each constituted by:
  - n. 1 column with n. 2 reversible fans
  - connecting system and columns movement system
  - control electrical panel
- c) Electrofans of the general chimney
- d) Electrofans for the air suction in the second zone and its intaking in the first one.
- e) N. 1 control electrical panel
- f) Thermocouples, hygrometers, manometers for the control of the dryers values
- g) Engineering; drawings for:
  - masonry and carpentry works
  - assembly of our supply
  - metallic pipings
  - electrical schemes
  - rails
  - handbook for the use and maintenance

### ***1.6 FIRING, TRANSPORT AND DISCHARGE***

NR. 1 CONNECTION LINE between discharge machine of the dryer's cars and cars charge machine complete with 90 degrees rotation system of the bricks in the two working directions and raw maker in the roller conveyor's entry.

Total installed power KW4

NR. 1 AUTOMATIC MACHINE for the around kiln cars discharge and charge. Single rotating head block with the supporting structure made of zinc coated steel, adjustable for the leverage, level preparation with reception roller conveyor, step-by-step of the high-low support, complete of electrical panel with OMRON programmator on all the working functions depending on the materials in production with different dimensions.

Manually adjustable forceps and automatically adjustable position.

Total power KWI 8

**TUNNEL KILN FTF 76/4000 AND CARS**

**TECHNICAL CHARACTERISTICS**

KILN TYPE:	tunnel, our type FTF 76/4000
KILN LENGTH:	76 mt. about
CAR LENGTH:	2600 mm about
CHARGE PLANE WIDTH:	4000 mm about
MAX CHARGE HEIGHT:	380 mm about
CARS IN THE KILN:	n. 30
COMBUSTIBLE:	methane gas or LGP
COMBUSTIBLE CONSUMPTION:	450-500 kcal/kg of fired product
FIRING TEMPERATURE:	950-1000°C
MAX FIRING TEMPERATURE:	1150°C
PRODUCTION:	basic size 300x240x140 mm - kg. 10/piece charging on the car: 16 pieces in width (h 300) 16 rows of pieces in length 256 pieces per car Production with firing cycle of 10 hours: 70 cars/day 15.000-18.000 pieces/day 150.000-180.000 kg/day

*Varying the charge density or the firing cycle, the production varies proportionally*

## STRUCTURAL DATA OF THE KILN

The kiln has a modular structure in prefabricated modules, which are easily transportable and assemblable on site.

## VAULT

The kiln vault is made of low-density insulating materials. These materials have a high temperature resistance, which give to the structure the following characteristics:

- extreme lightness
- high resistance to temperature and thermal shock
- untouchability by the enamel agents
- measured thermal inertia which allows a rapid slope in temperature of the kiln

## WALLS

The walls are made of refractory/insulating material with high pyrometric resistance and ceramic fiber in the part which is in contact with the metallic structure.

## PUSH OF THE CARS IN THE KILN

Made through an oleodynamic propeller group (adjustable speed).

## ZONES IN THE KILN

The kiln is constituted by 3 zones:

- PREHEATING AND PREFIRING ZONE
- FIRING ZONE
- COOLING ZONE

## PREHEATING AND PREFIRING ZONE

In this zone the pieces to be fired are introduced in the kiln and are prepared for the firing through the progressive heating of the pieces by the combustion products coming in countercurrent to the sense of the material.

Under and above the charge plane there are intakes of the hot gases.

Each intake has a proper regulation shutter.

All the intakes go into a collector connected to a temperature resistant fan, which put the exhausted gases of the chimney.

In the preheating zone, to uniform the temperature in the whole firing channel section, nr. 12 burners under the charge plane and an air insufflation system above the charge plan are foreseen: this will allow to maintain the temperatures equal.

## FIRING ZONE

The burners in the firing zone are 44, subdivided in 8 autoregulation zones.

The burners on the kiln are IF200 type (methane gas with insufflated air).

This type of burner is properly classified as “high speed burner”, with exhausted gases speed exiting form the combustion chamber with varying values from a few m/sec till 60 m/sec. Its max thermal potentiality is 150.000 KCal/h. It is therefore a very versatile burner, which can be used with high regulation range till reducing the potentiality to 10.000 KCal/h, while the requested air/gas proportion is maintained. It is a burner which foresee an automatic functioning with electrical ignition and flame control electrodes.

All the control instruments are put in a control panel which guarantees the burner block in case of variation of the foreseen values.

For the above mentioned characteristics, the burner IF200, in any working condition, always guarantees the maximum heath performances and consequently an important combustible saving, compared to the normal gas burners.

## COOLING ZONE

The cooling zone is divided in 3 parts.

- A first part, after the firing zone, called rapid cooling zone. The air supply here is regulated by a modulating valve.
- A second part, where the material is naturally cooled through intaking of warm air from the inner side of the kiln and the recovery for the dryer.
- A third part, where the material is finally cooled through insufflation of air, coming from an helicoidal fan of countercurrent.

## HOT AIR RECOVERY

Along the cooling zone adjustable exits for the evacuation of hot air are foreseen.

All these exits are connected to a general piping connected to an electrofan which can send the hot air to the dryer.

## TEMPERATURE REGULATION AND CONTROL

### PREHEATING ZONE

The autoregulations are the followings:

- N.2 autoregulatons for the 12 burners;
- N.1 autoregulations for undervault air immission.

## FIRING ZONE

The burners are subdivided in 8 autoregulation groups.

An autoregulation of the gas is foreseen, while the quantity of the combustion air is constant.

## RAPID COOLING ZONE

The rapid cooling fan air is autoregulated by a modulating valve connected through the temperature detection thermocouple to the microprocessor, so as to vary the flow according to the operative necessities of the kiln, moment by moment.

Totally, in the kiln nr. 12 autoregulation zones are foreseen.

## ELECTRICAL PLANT AND CONTROL PANEL

In the control panel of the kiln, all the autoregulation instruments, temperature control and electrical instruments will be installed.

In the supply all the electrical material is included.

## ELECTROFANS

The kiln is supplied with the following fans:

- N. 1 chimney fan
- N. 1 fan for the air insufflations undervault in the preheating zone
- N. 2 fans for the combustion air
- N. 1 fan for the rapid cooling
- N. 1 fan for the hot air recovery
- N. 1 countercurrent fan

All the fans are equipped with motors and transmissions.

## KILN AIR PIPINGS

The kiln is completed with the following pipings:

- piping for the smokes intakes
- piping for the undervault air in the preheating zone
- piping for the combustion air
- piping for the rapid cooling
- piping for the hot air recovery
- piping for the countercurrent air

All the pipings are built in stainless steel or iron metal sheets, depending on the temperatures.

They are complete with all the necessary instruments for the connection and fixing to the fans and supports.

## DAS DISTRIBUTION CIRCUIT

The distribution ring to the burners is equipped with:

- Gas pressure regulator reducer
- Gas filter
- Electrovalve with security block
- Air electrovalve (normally open)
- Max and min. gas pressure switches



- Autoregulating valves for gas
- Manometers for pressure detection
- Combustive air distribution circuit
- Combustive air pressure switch
- On the chimney piping a security pressure switch is foreseen

**NR. 1 CARS AUTOMATIC TRANSFER with transmission oleodynamic switchboard for machine movement and stop pushrods. Motorized chain for cars charge, mobile in two positions, complete of mobile car for the power panel connections**

NR. 1 CHAIN for the transport cars from rails to transfer for the automatic charge and discharge of the cars

PUSHING BARS for the cars transport with transmission oleodynamic switchboard and electrical panel, cables, sheaths and all the connections to the start-stop-emergency points

RAILS for the cars transfer with support chassis

NR. 1 OLEODYNAMIC PUSHER with pipes and automatic pressure switchboard complete of head block with cylinder d.200mm. Emergency manual control, discharge adjustable valves with electrical panel. Complete of push bar and automatic pushrods for the cars stocking under manual forceps. Double chain of cars positioning  
Total installed power KW 3

NR. 1 OLEODYNAMIC PUSHER with pipes and automatic pressure switchboard complete of head block with cylinder d.200mm. Emergency manual control, discharge adjustable valves with electrical panel. Total installed power KW 3

NR. 1 TRANSPORT TAPE of the finished material with overhead crane with double forceps on two working planes.  
Power KW14

ELECTRICAL PANEL with cables, sheaths, connectors, protections and automatic and manual subboard

NR. 1 PALLETTIZER with forceps and rotating table for the application of shrink wrap on the material on the pallet.  
Total installed power KW 7

# MECTILES SERAMİK MAKİNE SAN.VE TİC.LTD.ŞTİ.

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## GENERAL PHOTOS OF THE LINE





# MECTILES SERAMİK MAKİNE SAN.VE TİC.LTD.ŞTİ.

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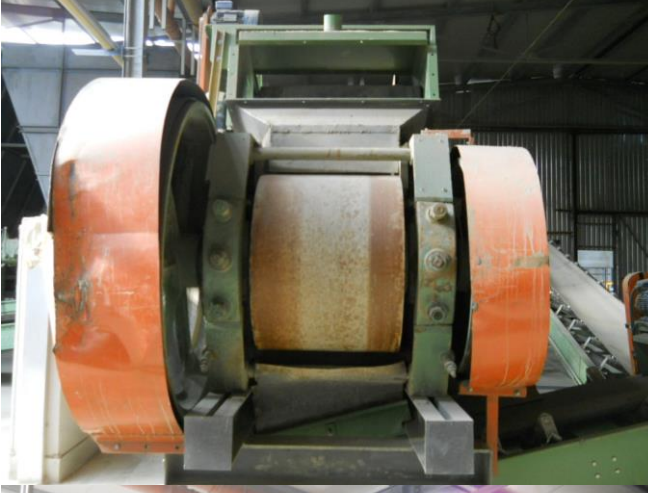
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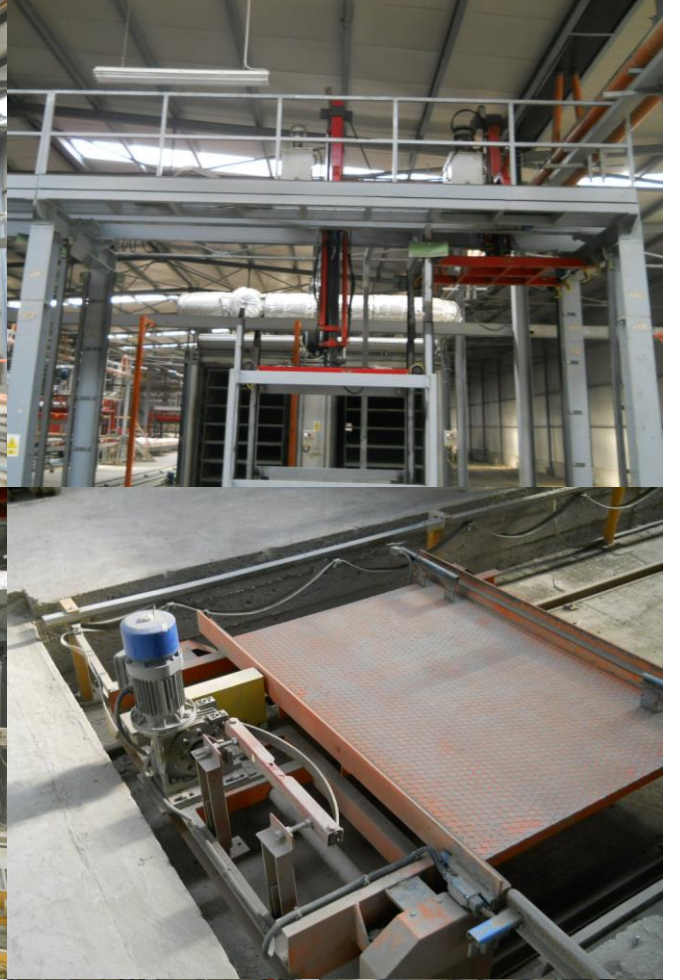
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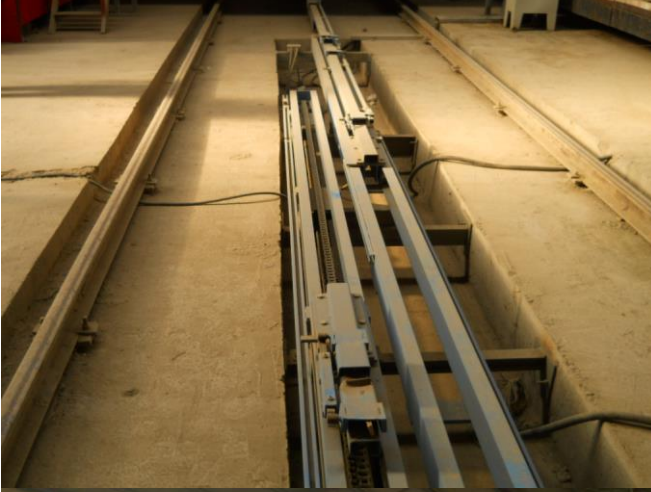
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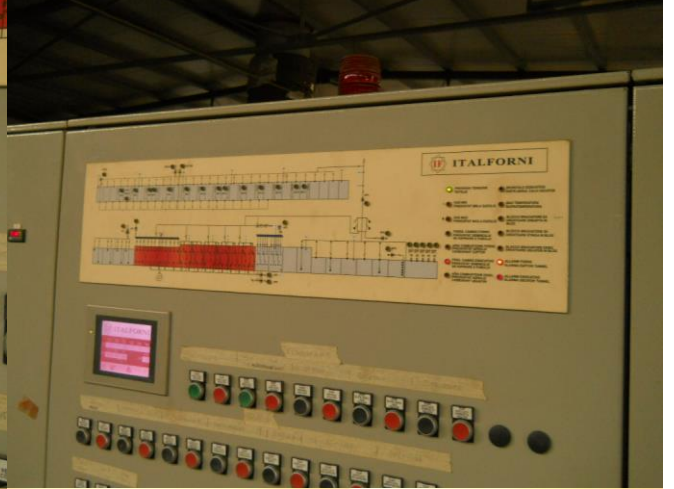
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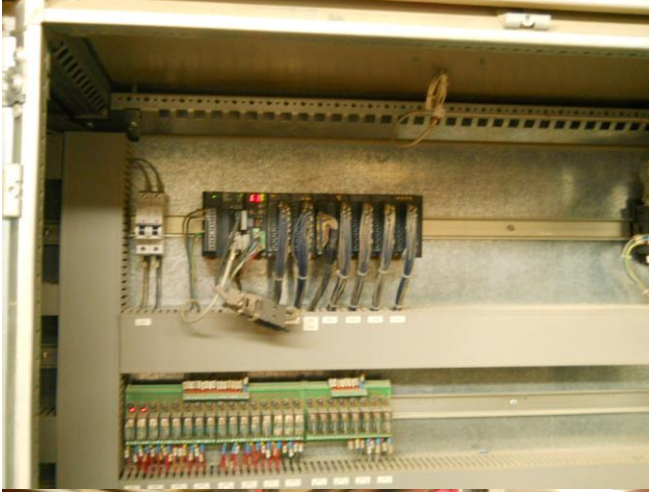
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