

- COST OF ENERGY IN ITALY:**

- Electricity	1 kWh	= 0,15 €
- Natural Gas	1 m ³	= 0,35 €

- PRODUCTION RATE IEC 0.75 gr.2 COPPER:**

- Compact 300 with electric oven	= 47 Kg
- Super Compact 300 with gas oven	= 47 Kg (SEE NOTE)

- THERMAL CONSUMPTION OF THE ENAMELING OVEN TO PRODUCE 1 KG IEC 0,75 COPPER:**

- Compact 300 with electric oven	= 0,6 kW
- Super Compact 300 with gas oven	= 0,05 m ³ (SEE NOTE)

- COST FOR PRODUCING 1 KG IEC 0,75 COPPER:**

- Compact 300 with electric oven	= 0,6 [kW] x 0,15 [€]	= 0,09 €
- Super Compact 300 with gas oven	= 0,05 m ³ x 0,35 [€]	= 0,017 € (SEE NOTE)

- With SUPER COMPACT GAS 300 the thermal production cost is 5,3 times LESS than the cost of electrical production**

- NOTE: the wording oven heated with gas indicates that they are heated with gas:**

- Enamelling oven
- Annealing oven (2 zones)
- Enamel of enamel tanks
- Water of the wire cleaning tank
- Steam production

The Worldwide Leader Group in Enamelling Machines Manufacturing

HORIZONTAL ENAMELLING MACHINES TYPE

COMPACT & SUPERCOMPACT

SINGLE LINE - 2 OVENS/2 LINES

Suitable for the production of round enamelled copper & aluminium wire

H.W. Bennett Non Ferrous Paper Award*

**NO
installation cost**



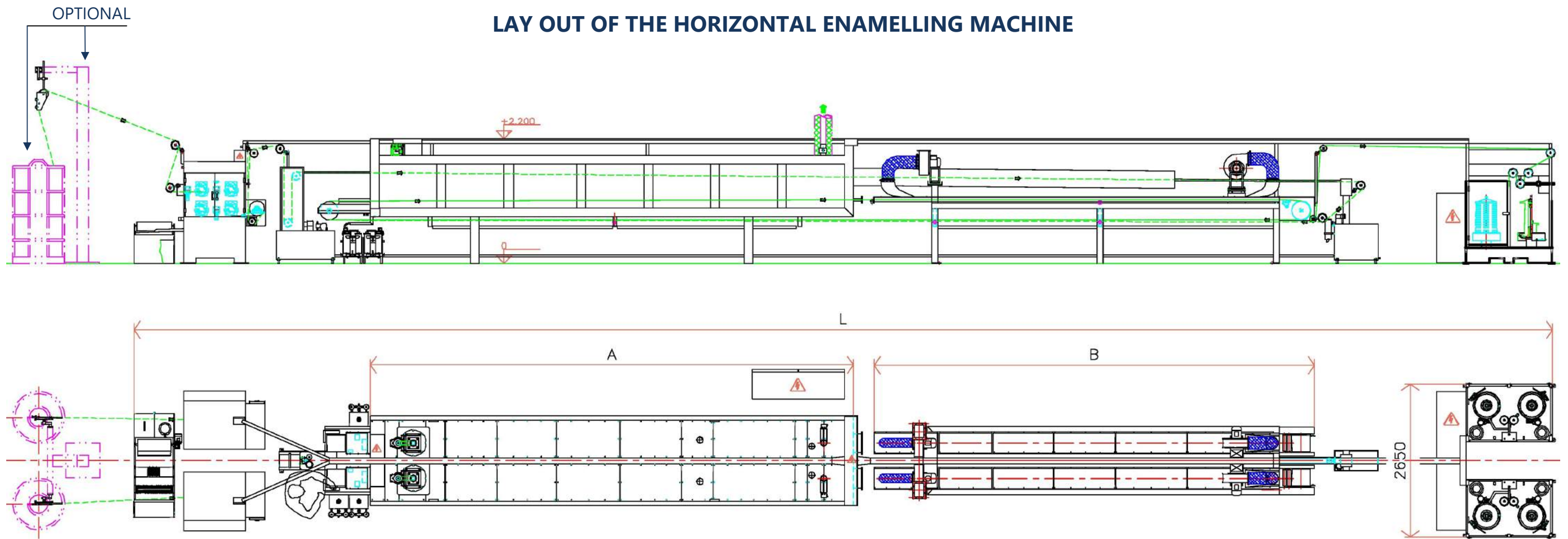
**Machine totally
wired**



* Award for research and fulfillment of gas enameling ovens - RESULT: STANDARD ENERGY EXPENSE/5

Machines produced according to "CE" standards and the tutelage of: Made in Italy 100% certificate, registration nr. IT01.IT/1110.094.V

Acts according to system IT01 - 100% Original Italian Quality



COMMON FEATURES

NUMBER OF LINES	2	NUMBER OF OVENS	2
TYPE OF APPLICATOR	Dies	NUMBER OF ENAMELS	3
NUMBER OF PASSES	24	SUBDIVISION	2+18+4
WIRE STEP	12mm	ENAMEL TANKS	45 LT
DRAWING MACHINE	15 PASSES, 23%	STEAM GENERATOR	Heat recovery system
POWER SUPPLY	400 Vac±10%	FREQUENCY	50±1 Hz
WIRE LUBRICATION SYSTEM	With oil and felts		

GAS CONFIGURATION

INSTALLED MOTIVE POWER	60 KW [TOTAL]
CABLE SECTION (MOTIVE)	35 sqmm
AUXILIARY CIRCUITS	24 Vdc
GAS REQUIREMENT (2 LINES)	5m ³ /h
GAS CONNECTION	2 pipes dia. 3/8" G

ELECTRIC CONFIGURATION

INSTALLED THERMAL POWER	110 KW [TOTAL]
CABLE SECTION (THERMAL)	60 sqmm
INSTALLED MOTIVE POWER	60 KW [TOTAL]
CABLE SECTION (MOTIVE)	35 sqmm

TYPE OF COMPACT/SUPERCOMPACT MACHINE AND RELEVANT DATA USABLE SPOOLS

160	- L=24,5m - A=8,3m - B=6m
200	- L=26,6m - A=9,4m - B=7m
300	- L=26,6m - A=9,4m - B=7m
500	- L=26,6m - A=9,4m - B=7m

CYLINDRICAL

160 - 200 - 250

TAPERED

200/315 - 250/400 - 315/500 - 400/630
500/800 (option)

OPERATING CONDITIONS NOISE LEVEL

Temperature: +10 ÷ 45°C, Humidity 85%
85 db measured at 1,5m distance without any other noise source presence

EMISSION

10 mg C/m³ at 750°C (catalyst outlet)

ROTATING PARTS

Idlers, rollers, pulleys, cones etc.. are chrome oxide covered

INNOVATIVE PERFORMANCE

- Low thermal cost each kg of produced wire (see table)
- Enamelling oven totally heated by gas
- Annealing oven heated at 75% by gas
- Heating of the enamel without thermal cost
- Heating of the water of wire cleaner without electric cost
- Wire cleaner with high and long efficiency
- Steam production without electric cost
- Enamelling oven without chimney
- Single tube which exhausts to outside the air of the wire cooling system
- Sealed gas meter to check the gas consumption for each kg of wire produced
- Electric meter for the total consumption of the motive power
- Machine management easier than electric version

Plant running speeds depend on various factors such as enamel characteristics, wire quality, number of passes and so on. Under normal running conditions, the plant will run the above indicated speed when using good quality materials and enamels by us suggested having solid content in this range 35-39% for PEI and 30-36% for PU. The final quality level is in compliance with the IEC standards. During commissioning acceptance test will be considered positive if production speeds values will be reached at the 85%. Values for Grade 2 application, above guaranteed figures will be reduced by 10%. Values for second enamel (PAI or NY), above guaranteed figures will be reduced by 15%. Values for self-bonding, above guaranteed figures will be reduced by 20%. Information is correct and accurate to the best of our knowledge; it is given in good faith and it does not bear any legal value.