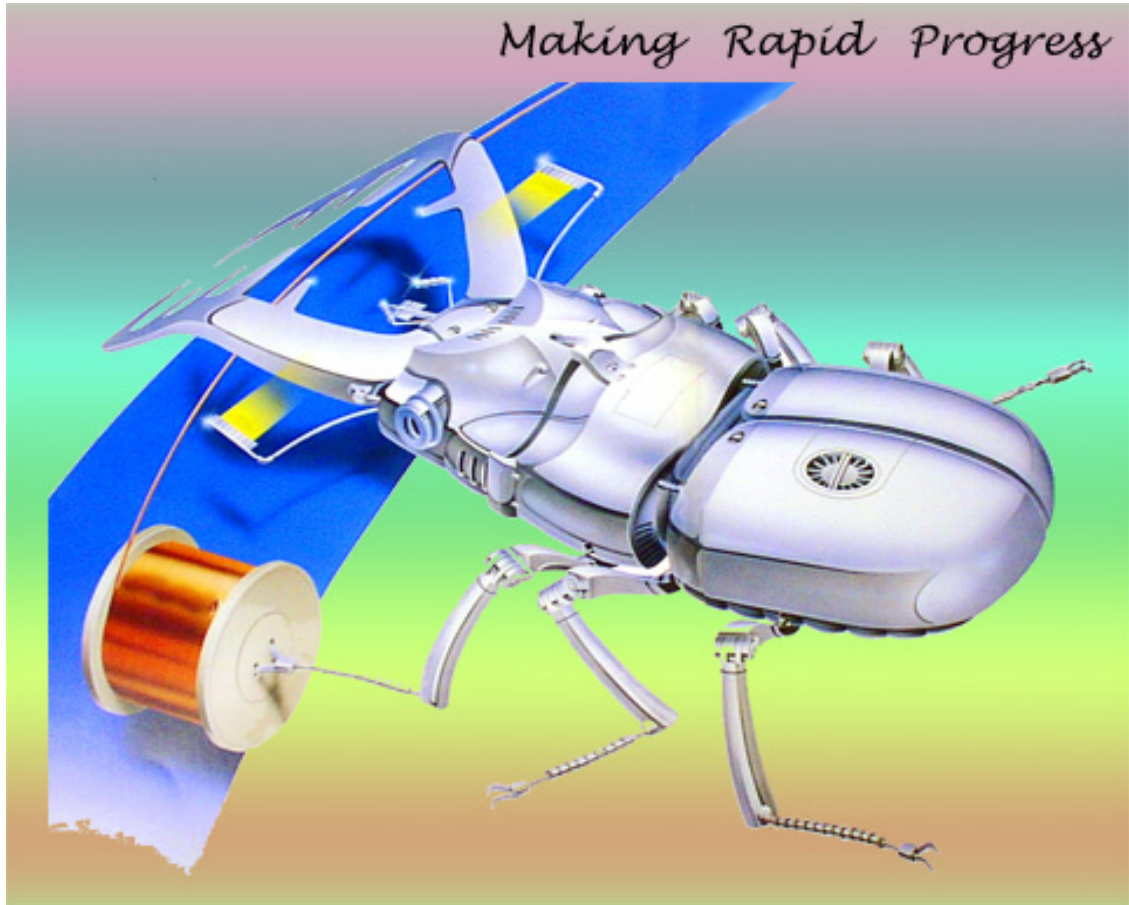


# Machines for Magnet Wire



Model of Machine

## HE2800

**Horizontal high speed enamelling machine  
with heat exchange system**

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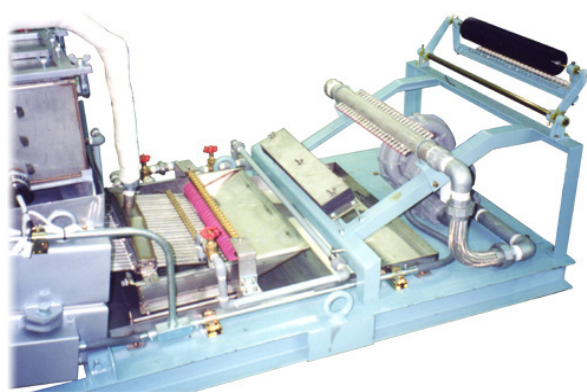
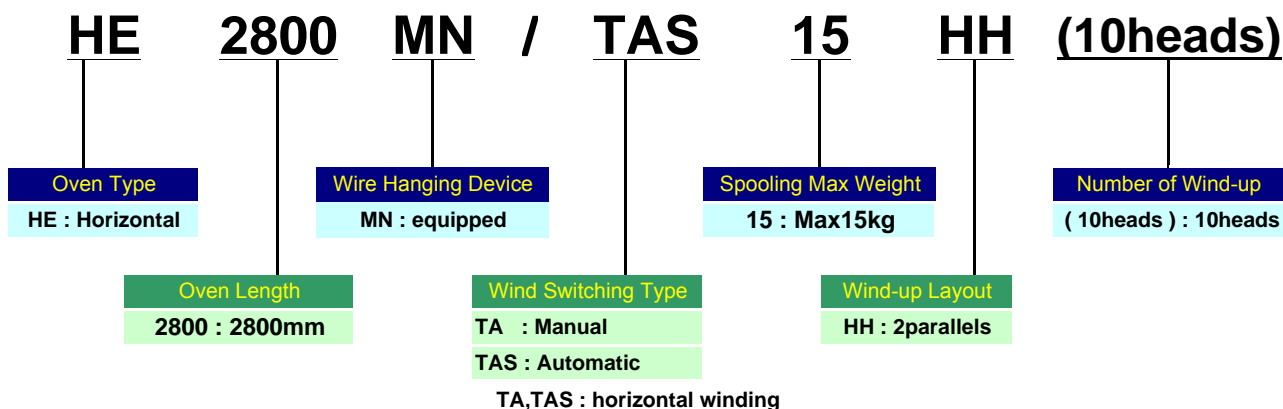
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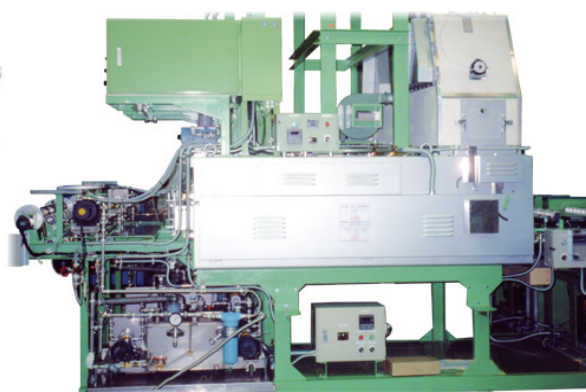
# HE2800

Horizontal high speed enamelling machine with heat exchange system

## Model



OUT-LET OF ANNEALING OVEN



COATING OVEN

## Description

This HE2800 is the latest horizontal machine for producing various kind of wires. HE2800 has a energy saving system which can maintain high temperature oven inside, due to utilizing exhaust heat. For instance "Infrared Heater Type" or "Horizonatal Automatic Switching-over wind-up system" also can be used depending on your need.

## Specification

MODEL	TA	TAS
HE2800MN/***/15HH***/		( 10 heads )
Wire Diameter Range	0.05 - 0.12 mmφ	
Speed Range	(Max) 400 m/min	
Number of Chamber in 1 Oven	1 chamber	
Max. Number of Line(per 1 Chamber)	10 lines	
Max. Coating Time(per 1 Line)	15 times	
Wire Passes	150 passes	
Method of Enamel Wiping	felt wiping	
Wire Line in Oven	6 mm(between wire lines), 1150 mm(height from the floor)	
Running Power	24 - 31 kw(estimate)	26 - 34 kw(estimate)
Electric Capacity	67 kw(eatimate)	74 kw(estimate)

# Technical Data

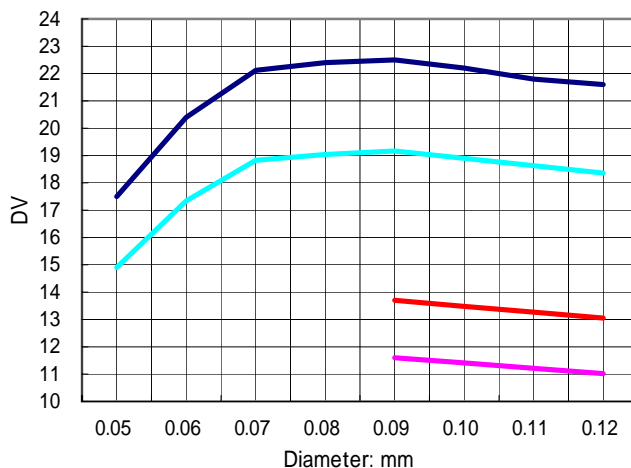
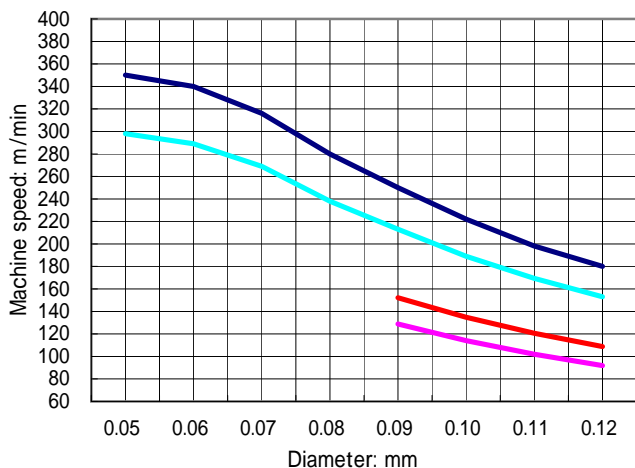
Type of Heater	PU	PEI
Standard Heater		
Infrared Heater		

Please make sure the example of the color of bars.

Please be sure to confirm the graphs below. "PU" means "PU(class F)".

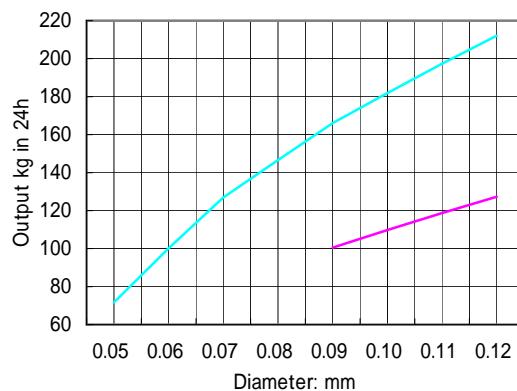
- \* These data are based on "class#1 of JIS(Japan Industrial Standard) qualification".
- \* Depend on suitable production materials and conditions.
- \* Production for over coating wire will decline about 10% than production for single coating wire.
- \* Finished product applicable to JIS(Japan Industrial Standard) qualification.

## Guaranteed Production Speed

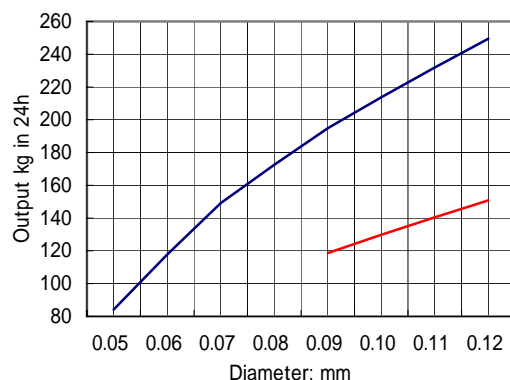


## Output kg in 24 hours

Diameter: mmφ	Standard Heater			
	1 head		10 heads	
	PU	PEI	PU	PEI
0.05	7	-	72	-
0.06	10	-	100	-
0.07	13	-	127	-
0.08	15	-	147	-
0.09	17	10	166	101
0.10	18	11	182	110
0.11	20	12	197	119
0.12	21	13	212	127

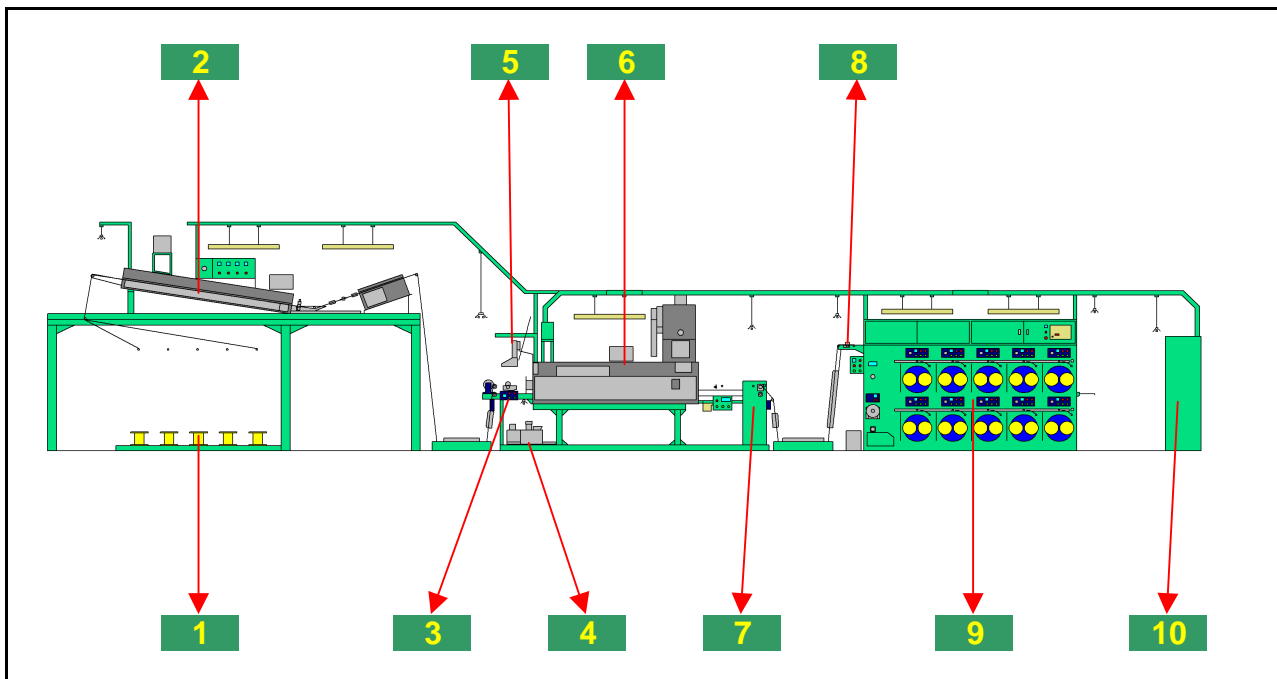


Diameter: mmφ	Infrared Heater			
	1 head		10 heads	
	PU	PEI	PU	PEI
0.05	8	-	84	-
0.06	12	-	118	-
0.07	15	-	149	-
0.08	17	-	173	-
0.09	19	12	195	119
0.10	21	13	214	130
0.11	23	14	232	141
0.12	25	15	250	151



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# Components of Machine



## 1 Supply Device

Installed under operation deck of annealing oven. Wire line guide & spooling attachment(vertical type for 10 heads) × 1 unit equipped. Curl flyer: 20 units attached.

recommendation model	standard model

## 2 Annealing Oven

2900mm(L) x 750mm(W) x 350mm(T), 10 pipes x 1 chamber, Heated water bath type. Air wiping system & Hot air Re-circulation type dryer & Steam generator equipped.

recommendation model	standard model

## 3 Applicator

1 bath 1-speed type with 60mmφ coating roll device. Felt wiping attachment. Level detector system and enamel heater for applicator bath equipped.

recommendation model	standard model

## 4 Varnish Circulation Tank

20 liters with indirect heating and circulation system  
20 liters with automatic viscosity control system

recommendation model	standard model

## 5 Partial Exhaust Device

1 motor type

recommendation model	standard model

## HE2800

### 6 Coating Oven

HE2800: 2800mm(L) x 1400mm(W) x 730mm(T) x 1 chamber, Heat Exchange System, MN wire hanging device and Exhaust fan x 1 equipped.

Standard heater

Infrared heater

recommendation model	standard model

### 7 Take-up Machine

1-speed type with 64mmφ taper capstan roll device (water cooling type), Wire adhesion alarm equipped.

recommendation model	standard model

### 8 Oil Coating Device

40mmφ coating roll device, Thermo control unit and circulating pump equipped.

recommendation model	standard model

### 9 Wind-up Machine

TA15HH(10heads): 1-speed & 1-traverse type with manual switching over (horizontal).

Bare wire alarm equipped.

TAS15HH(10heads): 1-speed & 1-traverse type with automatic switching over (horizontal).

Wire break down detector(auto stop system) equipped. Bare wire alarm equipped.

recommendation model	standard model

### 10 Control Panel

Cubicle type: 1300mm(W) x 2000mm(H) x 600mm(D), Temperature average controller system by 3 measuring points (left/center/right) at oven in-let and out-let, "PID" thermo control.

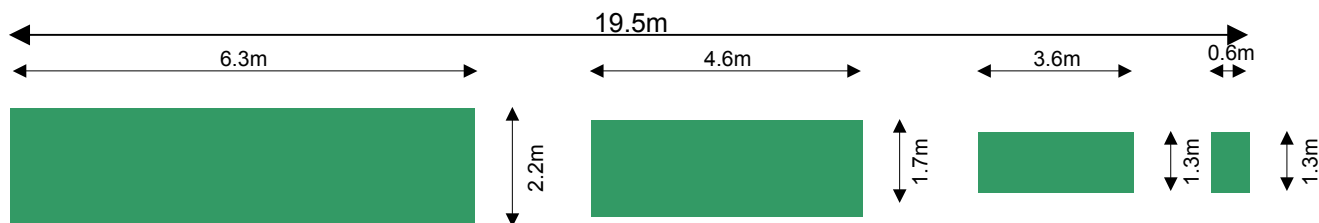
12 measuring points thermo recorder equipped. Watt-hour meter equipped.

recommendation model	standard model

\* With regard to **4**, **6**, **9**, every items can be utilized.

## Layout

### HE2800MN/TA·TAS15HH(10heads)



Max.(H) : 4.0m