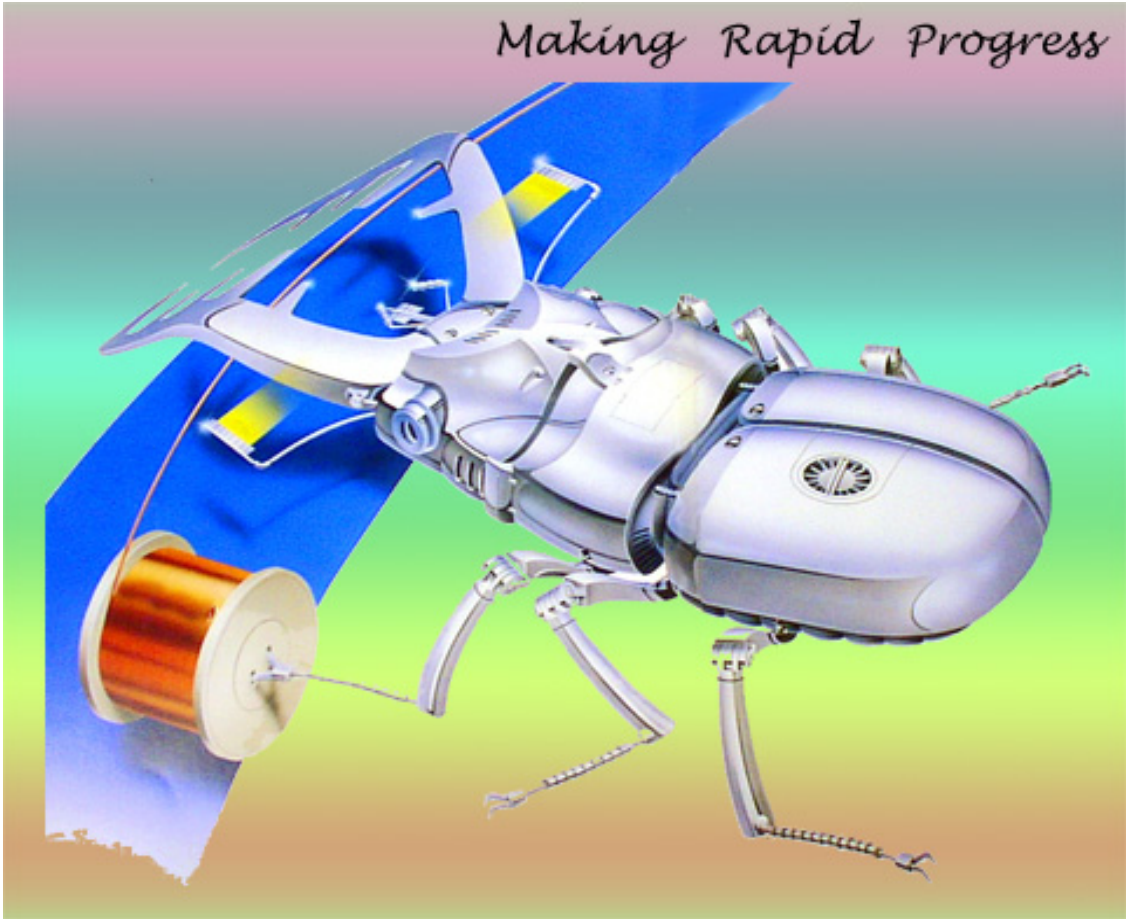


Machines for Magnet Wire



Model of Machine

HE2000

Horizontal high speed enamelling machine with heat exchange system

KUHARA SEISAKUSHO CO., LTD.



Address : 4-11-3, Kajihara, Takatsuki, Osaka, Japan
Zip-code : 569-0091

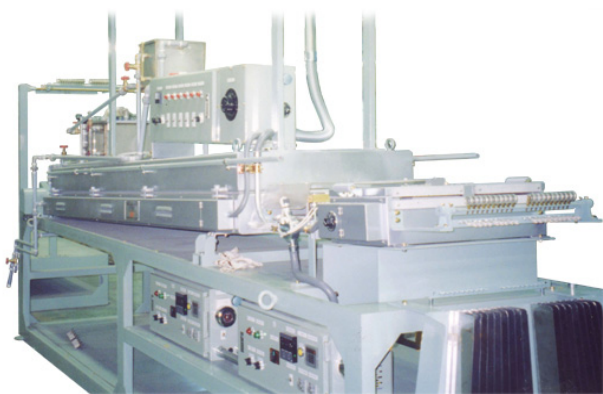
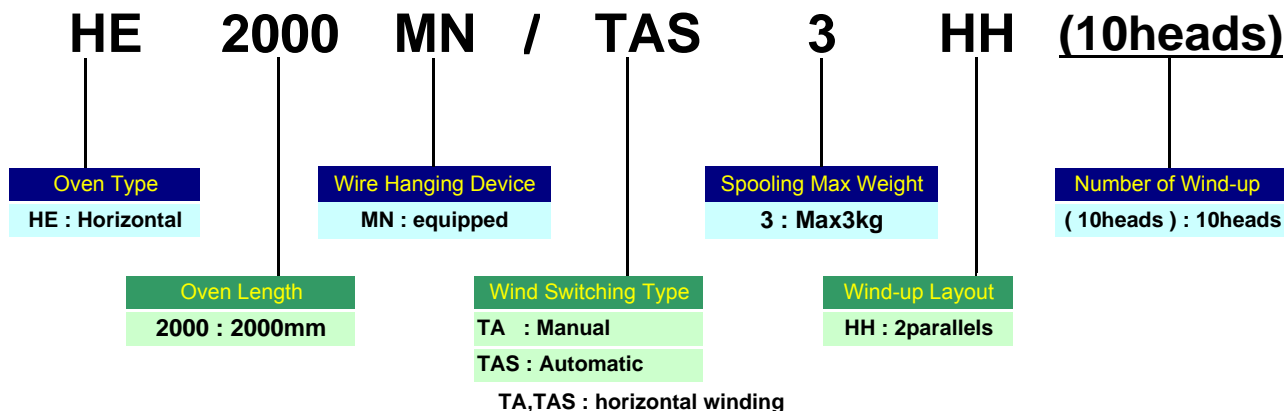
Phone# : ++81-72-669-2181
FAX# : ++81-72-669-3028

E-Mail : info@kuhara-net.co.jp
Web-Site : <http://www.kuhara-net.co.jp>

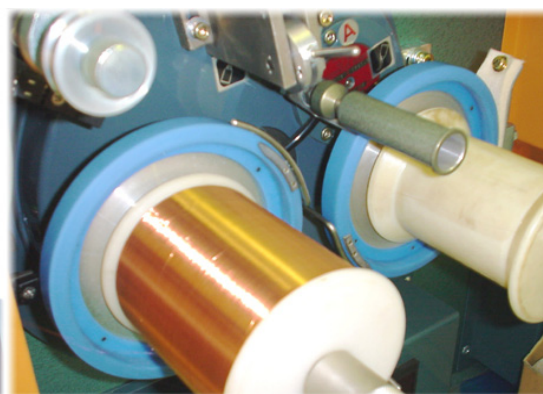
HE2000

Horizontal high speed enamelling machine with heat exchange system

Model



ANNEALING OVEN



WIND-UP UNIT

Description

This HE2000 is the latest horizontal machine for producing various kind of wires.
 HE2000 has a energy saving system which can maintain high temperature oven inside, due to utilizing exhaust heat.
 For instance "Infrared Heater Type" or "Horizontal Automatic Switching-over wind-up system" also can be used depending on your need.

Specification

MODEL	TA	TAS
HE2000MN/**3HH**	(10 heads)	
Wire Diameter Range	0.025 - 0.040 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)	18 times	
Wire Passes	180 passes	
Method of Enamel Wiping	felt wiping	
Wire Line in Oven	5 mm(between wire lines), 1150 mm(heght from the floor)	
Running Power	18 - 22 kw(estimate)	20 - 26 kw(estimate)
Electric Capacity	49 kw(estimate)	56 kw(estimate)

Technical Data

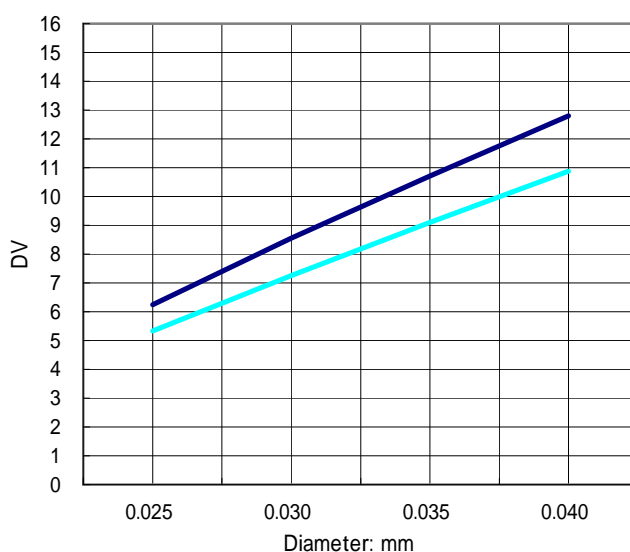
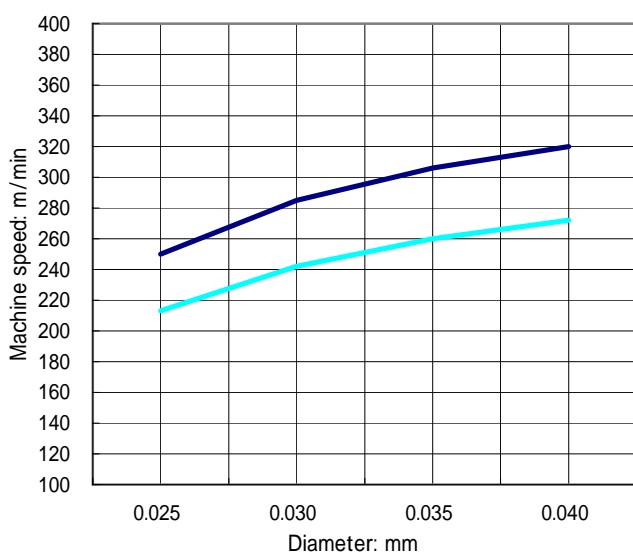
Type of Heater	PU	PEI
Standard Heater	■	▨
Infrared Heater	■	▨

Please make sure the example of the color of bars.

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

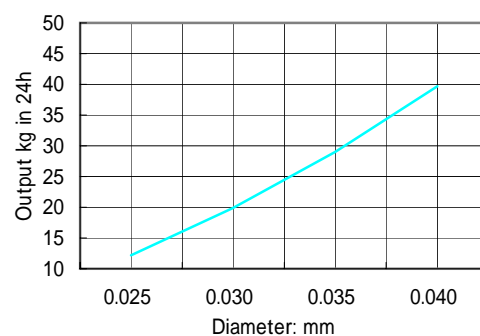
- * These data are based on "class#1 of JIS(Japan Industrial Standard) qualification".
- * Depend on suitable production materials and conditions.
- * Production for over coating wire will decline about 10 % than production for single coating wire.
- * Finished product applicable to JIS(Japan Industrial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

Guaranteed Production Speed

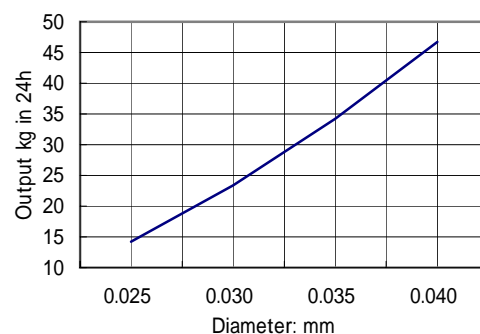


Output kg in 24 hours

Diameter: mmφ	Standard Heater			
	1 head		10 heads	
	PU	PEI	PU	PEI
0.025	1.22	-	12.20	-
0.030	1.99	-	19.90	-
0.035	2.90	-	29.00	-
0.040	3.97	-	39.70	-

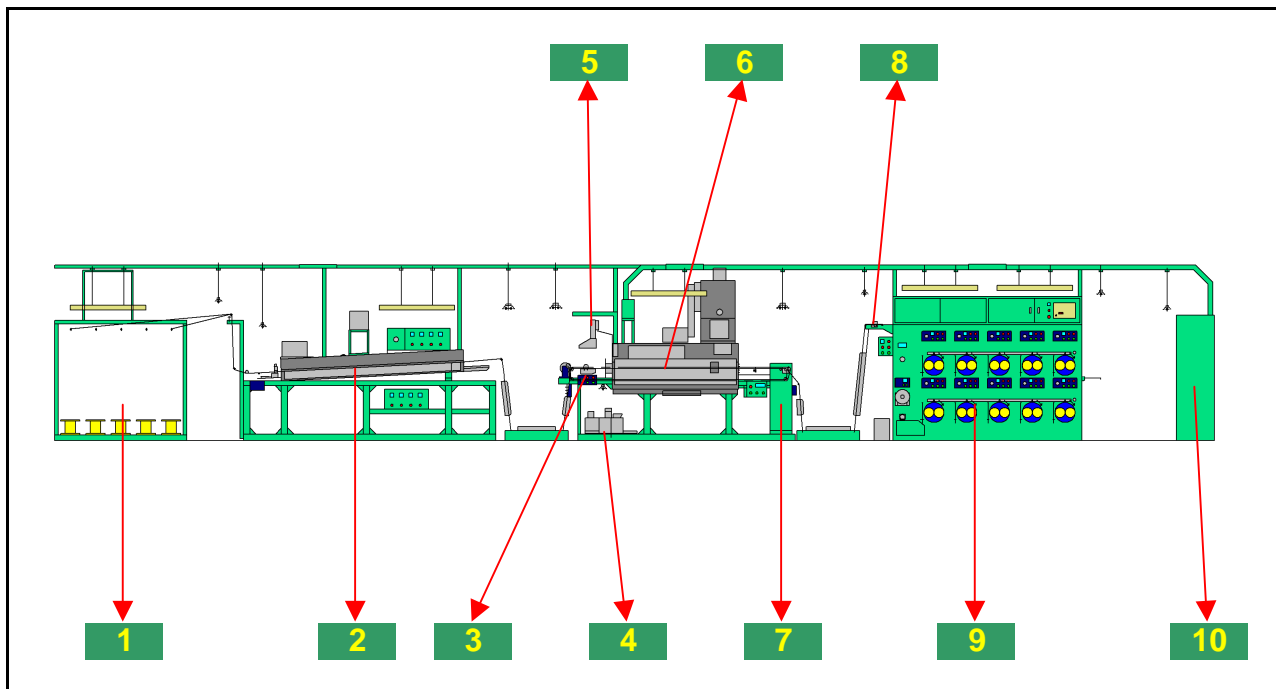


Diameter: mmφ	Infrared Heater			
	1 head		10 heads	
	PU	PEI	PU	PEI
0.025	1.42	-	14.20	-
0.030	2.34	-	23.40	-
0.035	3.42	-	34.20	-
0.040	4.67	-	46.70	-



Unauthorized duplication is prohibited.

Components of Machine



1 Supply Device

Installed behind 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, sealing bath type & floor installed type. Steam generator equipped.

recommendation model	standard model

3 Applicator

1 bath 1-speed type with 50mmφ 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

HE2000

6 Coating Oven

HE2000: 2000mm(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 40mmφ 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

TA3HH(10heads): 1-speed & 1-traverse type with manual switching over(horizontal).

Bare wire alarm equipped.

TAS3HH(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

HE2000MN/TA·TAS3HH(10heads)

