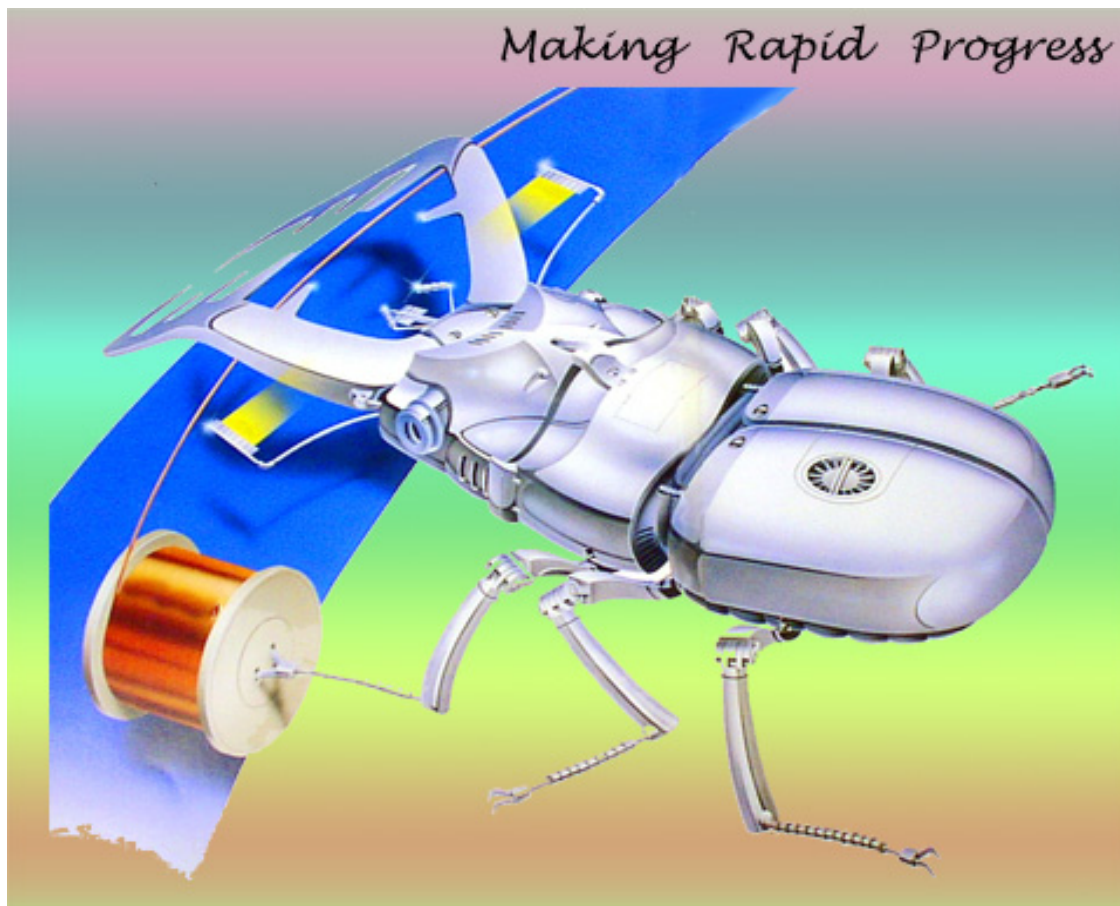


Machines for Magnet Wire



Model of Machine

HE2400

**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

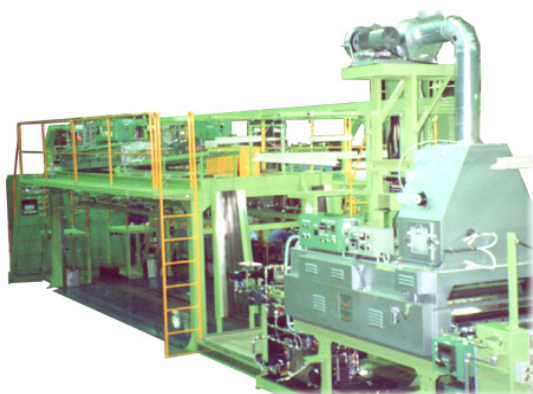
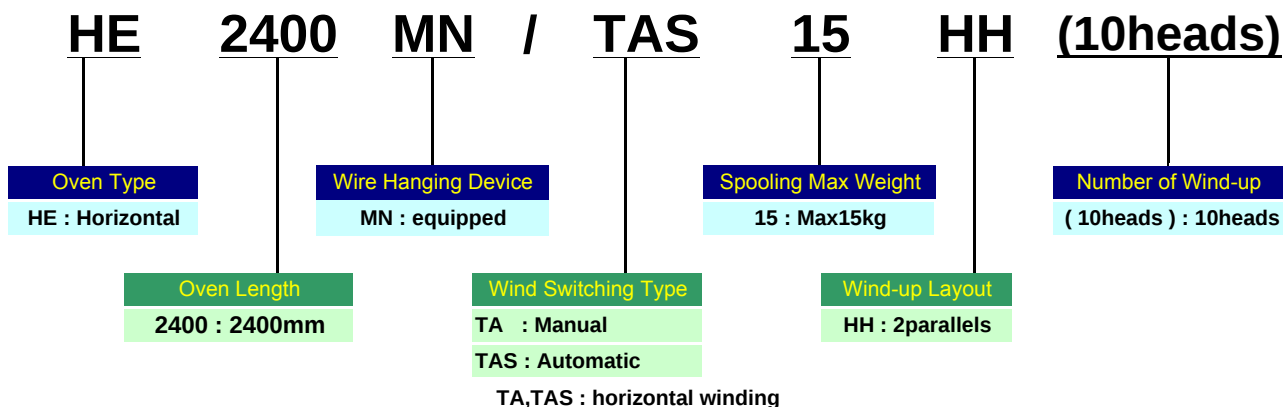
Phone# : ++81-72-669-2181
FAX# : ++81-72-669-3028

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

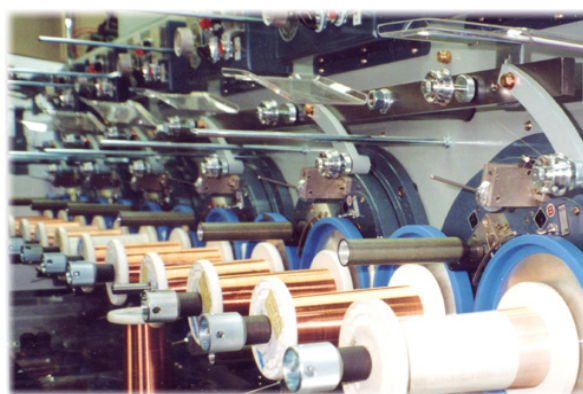
HE2400

Horizontal high speed enamelling machine with heat exchange system

Model



ANNEALING OVEN / COATING OVEN



WIND-UP UNIT

Description

This HE2400 is the latest horizontal machine for producing various kind of wires.

HE2400 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
HE2400MN/***15HH***	(10 heads)	
Wire Diameter Range	0.04 - 0.08 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(height from the floor)	
Running Power	20 - 26 kw(estimate)	23 - 29 kw(estimate)
Electric Capacity	56 kw(estimate)	64 kw(estimate)

Technical Data

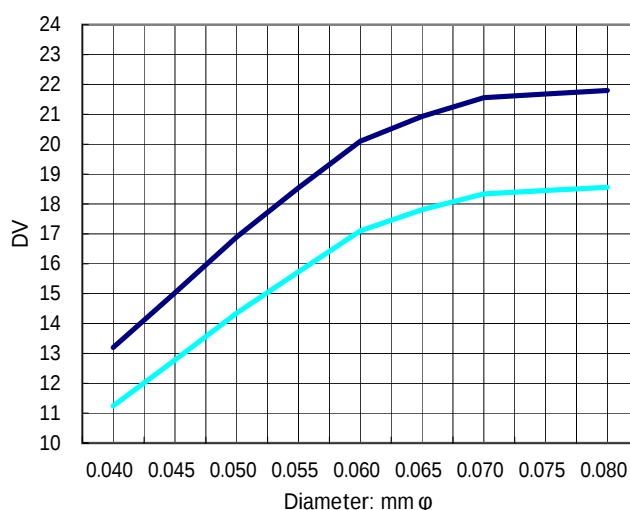
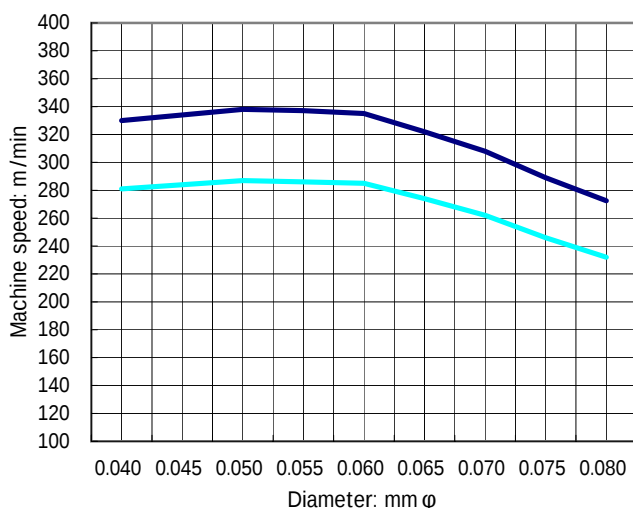
Type of Heater	PU	PEI
Standard Heater		
Infrared Heater		

Please make sure the example of the color of bars.

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

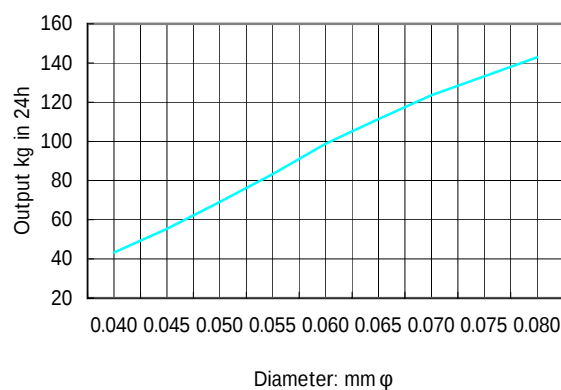
- * These data are based on "class#1 of JIS(Japan Industrial Standard) qualification".
- * Depend on suitable puroduction materials and conditions.
- * Production for over coating wire will decline about 10 % than production for single coating wire.
- * Finished product applicable to JIS(Japan Industrial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

Guaranteed Production Speed

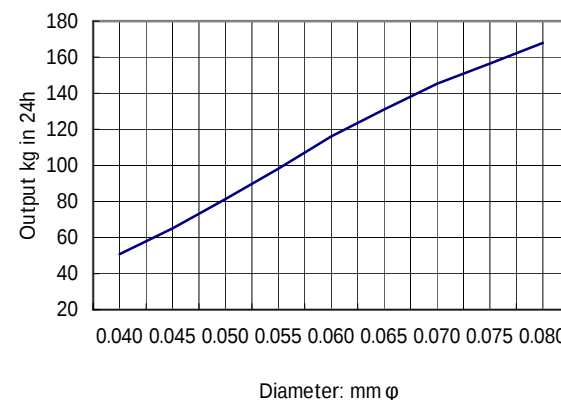


Output kg in 24 hours

Diameter: mmφ	Standard Heater			
	1 head		10 heads	
	PU	PEI	PU	PEI
0.040	4.3	-	43.3	-
0.045	5.5	-	55.4	-
0.050	6.9	-	69.1	-
0.055	8.3	-	83.3	-
0.060	9.9	-	98.8	-
0.065	11.1	-	111.4	-
0.070	12.4	-	123.6	-
0.075	13.3	-	133.2	-
0.080	14.3	-	142.9	-

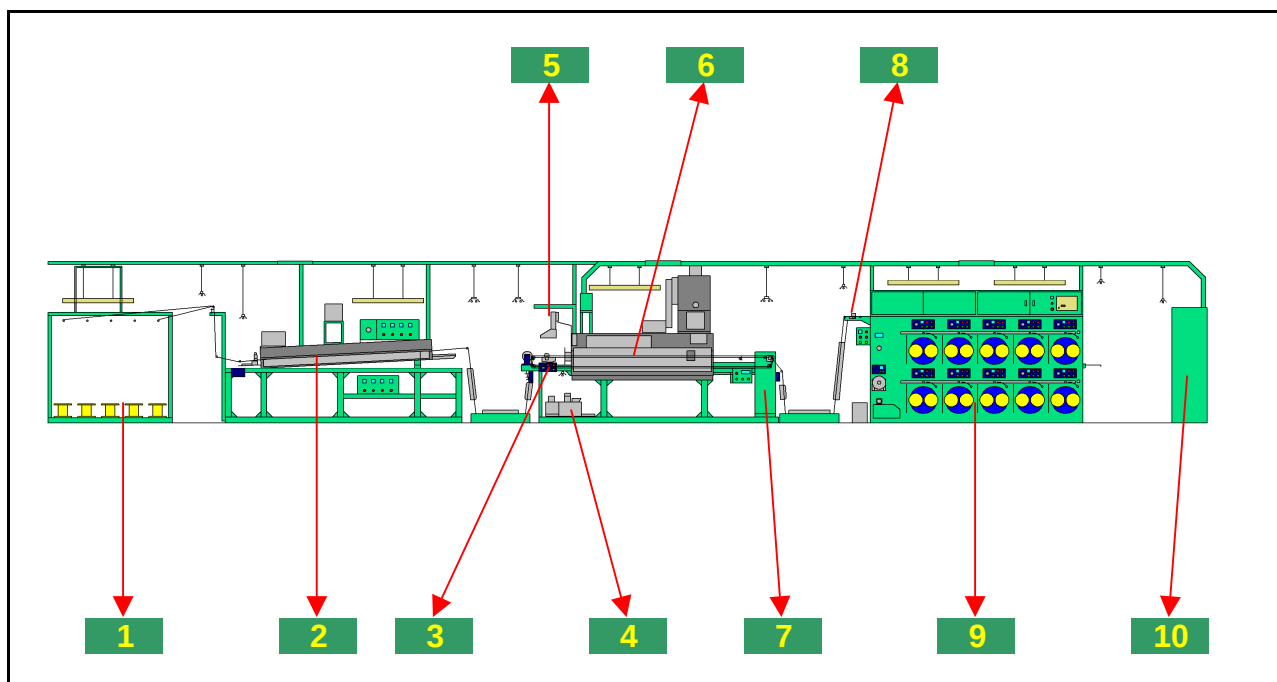


Diameter: mmφ	Infrared Heater			
	1 head		10 heads	
	PU	PEI	PU	PEI
0.040	5.1	-	50.8	-
0.045	6.5	-	65.1	-
0.050	8.1	-	81.3	-
0.055	9.8	-	98.2	-
0.060	11.6	-	116.1	-
0.065	13.1	-	131.0	-
0.070	14.5	-	145.3	-
0.075	15.7	-	156.5	-
0.080	16.8	-	167.9	-



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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 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
	●

HE2400

6 Coating Oven

HE2400: 2400mm(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 redard to 4 6 9 , every items can be utilized.

Layout

HE2400MN/TA•TAS15HH(10heads)

