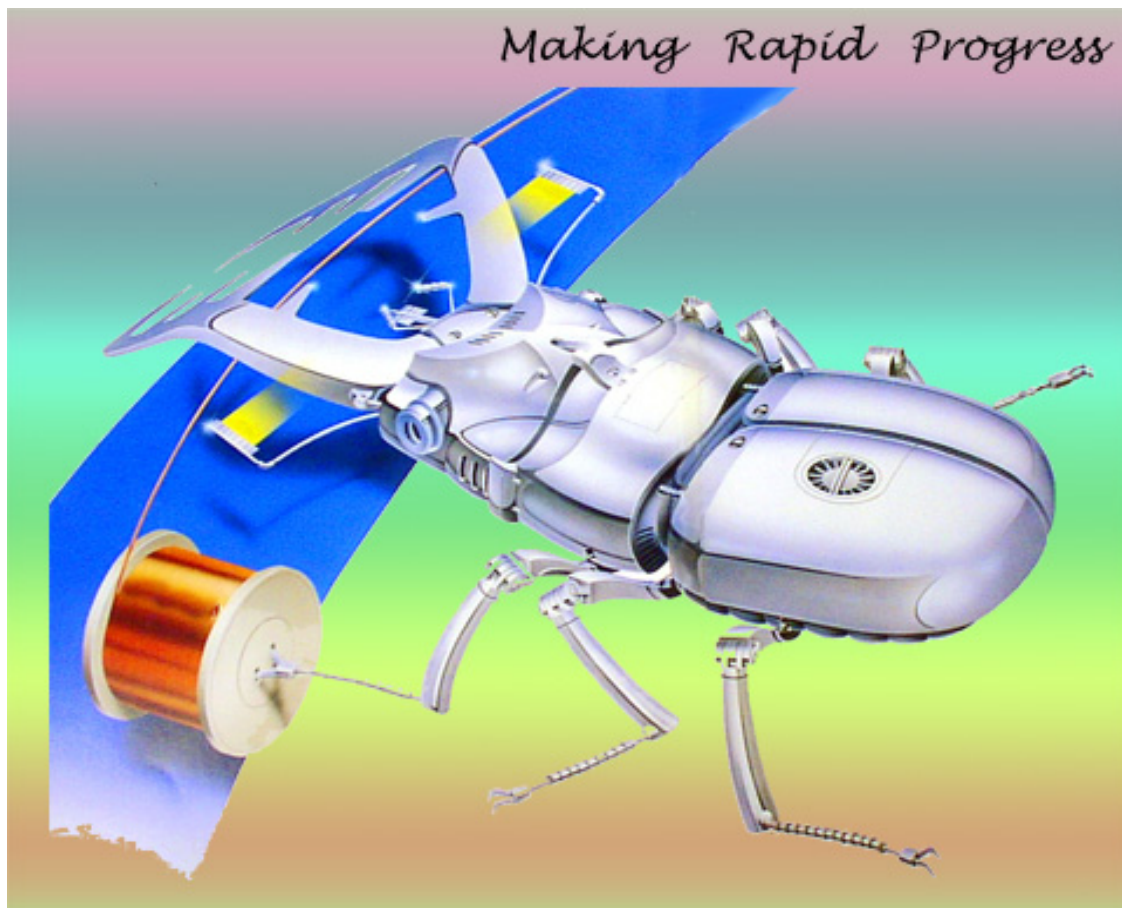


Machines for Magnet Wire



Model of Machine

HE3100

**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

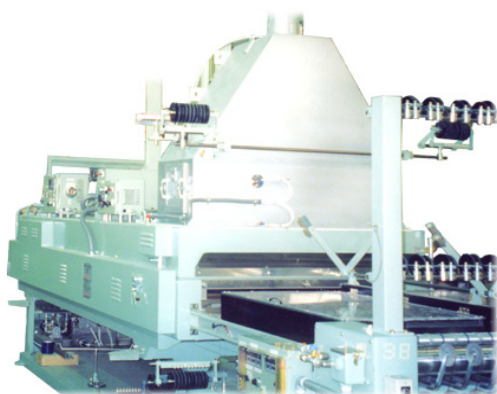
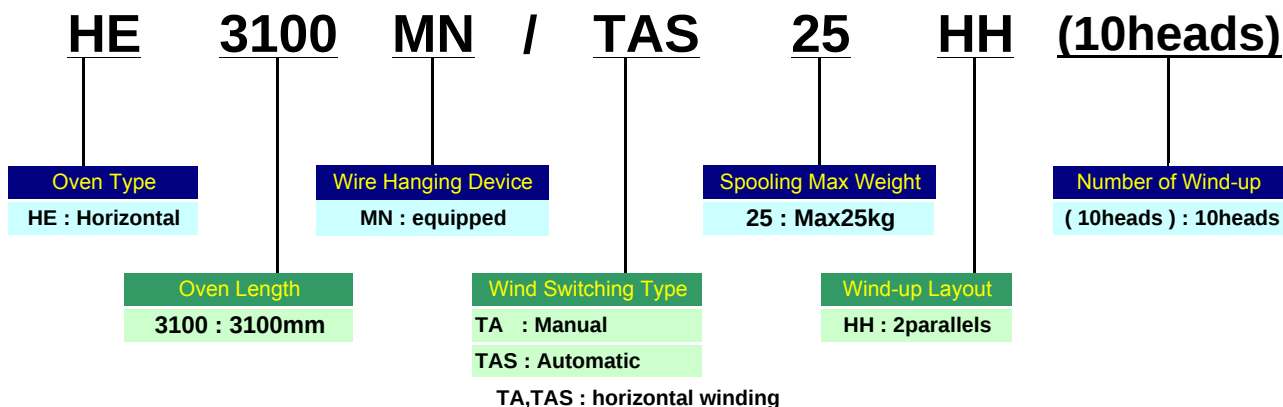
Phone# : ++81-72-669-2181
FAX# : ++81-72-669-3028

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

HE3100

Horizontal high speed enamelling machine with heat exchange system

Model



OUT-LET OF COATING OVEN



WIND-UP UNIT

Description

This HE3100 is the latest horizontal machine for producing various kind of wires.

HE3100 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
HE3100MN/***25HH***	(10 heads)	
Wire Diameter Range	0.08 - 0.23 mmφ	
Speed Range	(Max) 300 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 and die wiping(compatible)	
Wire Line in Oven	6 mm(between wire lines), 1150 mm(height from the floor)	
Running Power	25 - 32 kw(estimate)	29 - 37 kw(estimate)
Electric Capacity	71 kw(estimate)	81 kw(estimate)

Technical Data

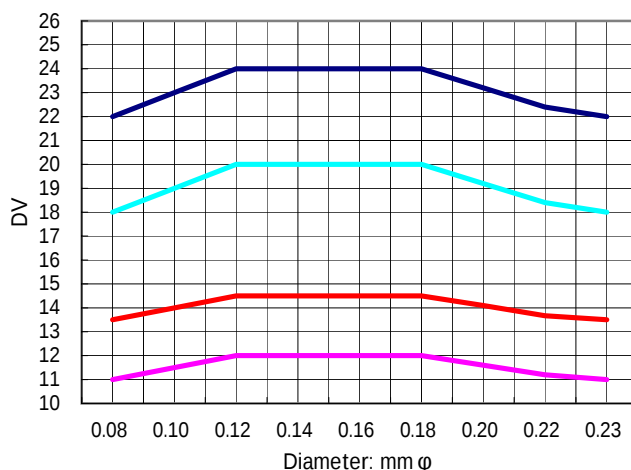
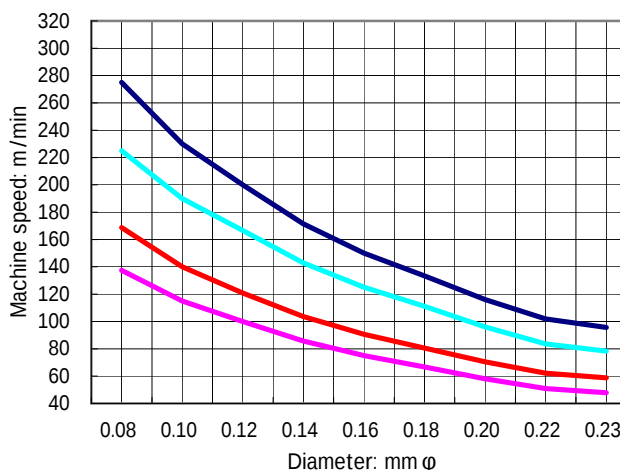
Type of Heater	PU	PEI
Standard Heater	■	■
Infrared Heater	■	■

Please make sure the example of the color of bars.

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

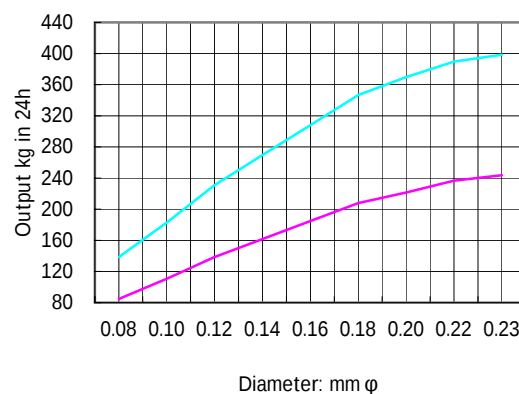
- * These data are based on "class#1 of JIS(Japan Industrial Standard) qualification".
- * Depend on suitable puroduction materials and conditions.
- * Production for over coating wire will decline about 10% than production for single coating wire.
- * Finished product applicable to JIS(Japan Industrial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

Guaranteed Production Speed

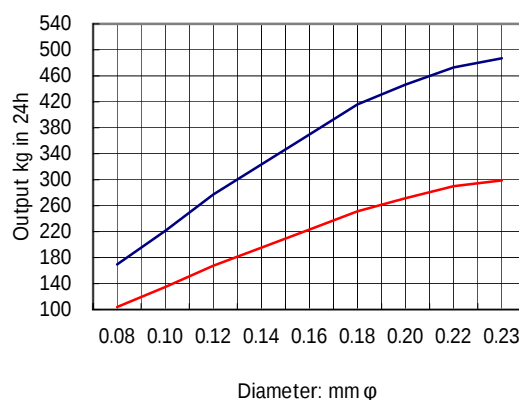


Output kg in 24 hours

Diameter: mmφ	Standard Heater			
	1 head		10 heads	
	PU	PEI	PU	PEI
0.08	14	8	139	85
0.10	18	11	183	111
0.12	23	14	231	139
0.14	27	16	270	162
0.16	31	18	308	185
0.18	35	21	347	208
0.20	37	22	370	221
0.22	39	24	390	237
0.23	40	24	399	244

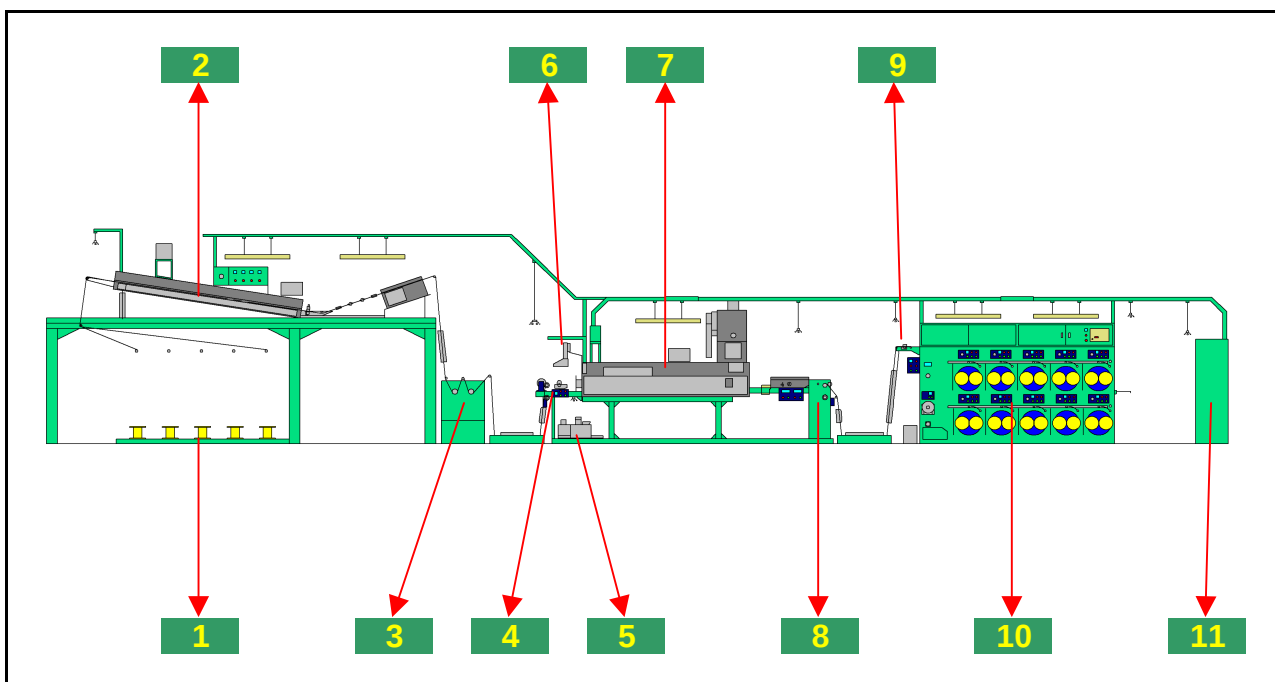


Diameter: mmφ	Infrared Heater			
	1 head		10 heads	
	PU	PEI	PU	PEI
0.08	17	10	169	104
0.10	22	13	221	135
0.12	28	17	277	168
0.14	32	20	324	195
0.16	37	22	370	223
0.18	42	25	416	251
0.20	45	27	447	272
0.22	47	29	473	290
0.23	49	30	487	299



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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

3500mm(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 Draw-out Machine

1-speed type with 100mmφ double roll device

recommendation model	standard model
	●

4 Applicator

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

recommendation model	standard model
	●

5 Varnish Circulation Tank

20 liters with indirect heating and circulation system

20 liters with automatic viscosity control system

recommendation model	standard model
	●
●	

HE3100

6 Partial Exhaust Device

1 motor type

recommendation model	standard model
	●

7 Coating Oven

HE3100: 3100mm(L) x 1400mm(W) x 650mm(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
	●
	●
●	

8 Take-up Machine

1-speed type with 80mmφ taper capstan roll device (water cooling type), Wire adhesion alarm equipped.

recommendation model	standard model
	●

9 Oil Coating Device

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

recommendation model	standard model
	●

10 Wind-up Machine

TA25HH(10heads): 1-speed & 1-traverse type with manual switching over (horizontal).

Bare wire alarm equipped.

TAS25HH(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
	●
●	

11 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 5, 7, 10, every items can be utilized.

Layout

HE3100MN/TA•TAS25HH(10heads)

