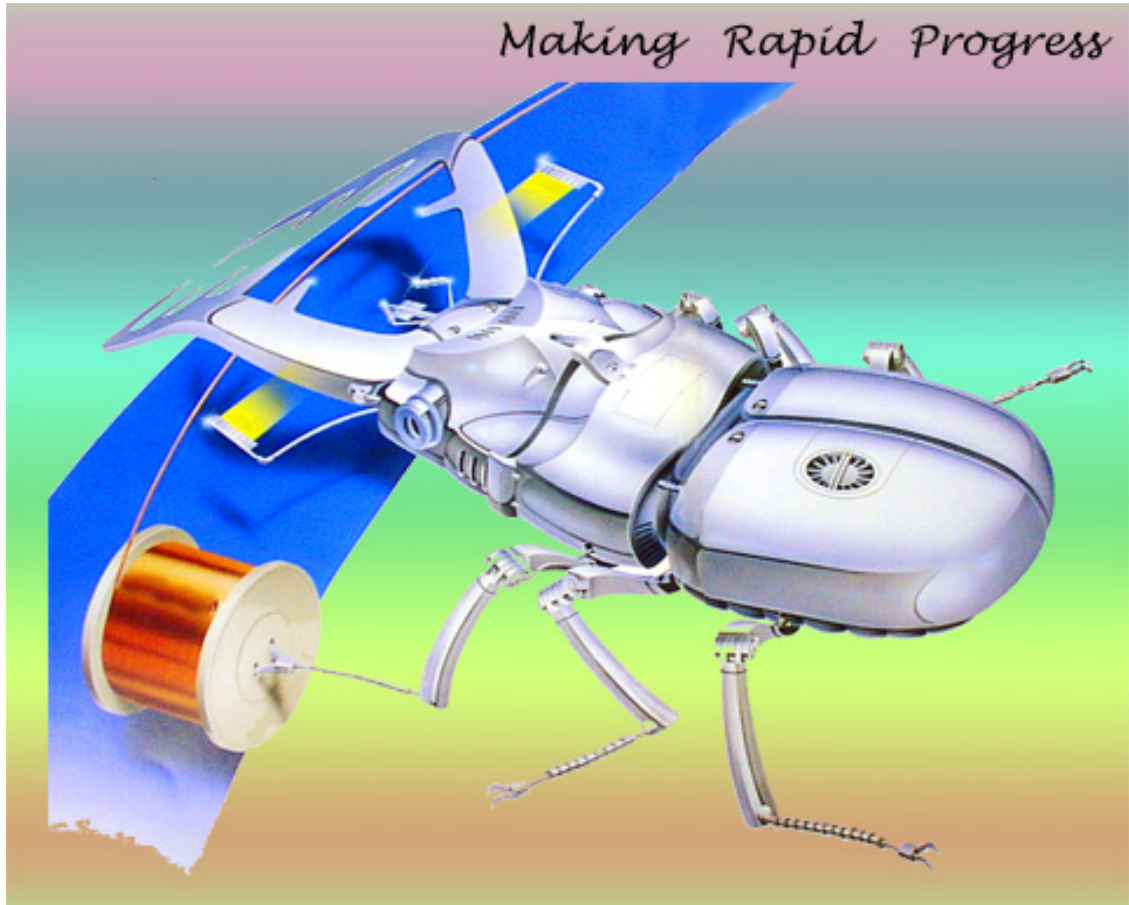


Machines for Magnet Wire



Model of Machine

AHI600

Horizontal ultra high speed enamelling machine with hot air Re-circulation & heat exchange system

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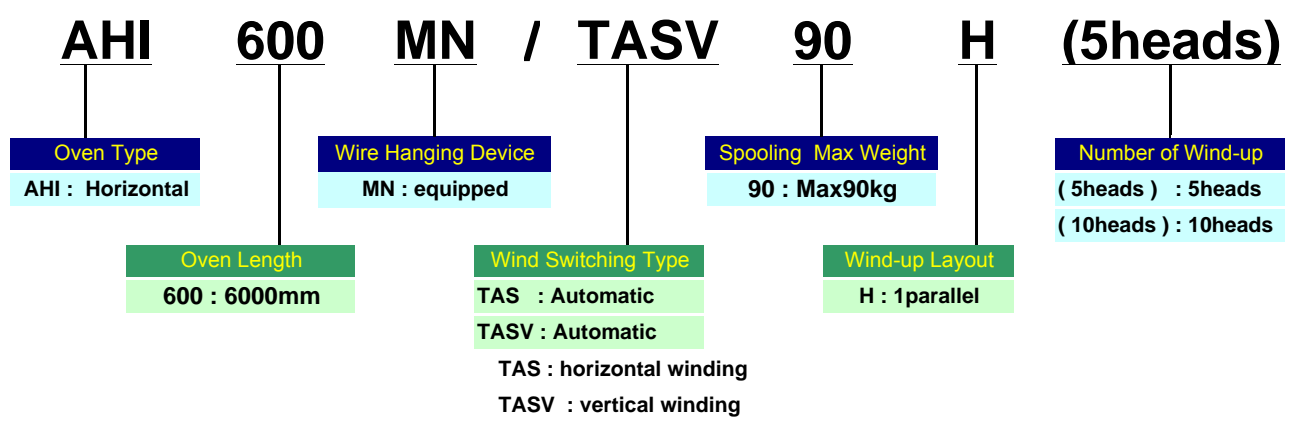
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AHI600

Horizontal ultra high speed enamelling machine with hot air Re-circulation & heat exchange system

Model



COATING OVEN



WIND-UP UNIT

Description

This AHI600 is the latest ultra high speed horizontal machine for producing various kind of wires. This AHI600 can be saved energy due to Re-circulating hot air in oven inside and due to exchange exhaust heat which occurred oven inside. That makes a contribution for maintaining high temperature of oven inside and for high speed. 5 lines model and 10 lines model also can be utilized. AHI600 can be utilized horizontal automatic wind-up machine for 25kg or vertical automatic wind-up for 90kg weight spooling depending on your wire size.

Specification

MODEL	TAS		TASV	
	(5 heads)	(10 heads)	(5 heads)	(10 heads)
AHI600MN/**90H**				
Wire Diameter Range	0.20 - 0.60 mmφ		0.30 - 0.80 mmφ	
Speed Range	(Max) 350 m/min		(Max) 250 m/min	
Number of Chamber in 1 Oven	1 chamber			
Max. Number of Line (per 1 Chamber)	5 lines	10 lines	5 lines	10 lines
Max. Coating Time (per 1 Line)	16 times	13 times	16 times	13 times
Wire Passes	80 passes	130 passes	80 passes	130 passes
Method of Enamel Wiping	die wiping			
Wire Line in Oven	7 mm (between wire lines), 1150 mm (height from the floor)			
Running Power	46 - 59 kw (estimate)	63 - 81 kw (estimate)	47 - 60 kw (estimate)	64 - 83 kw (estimate)
Electric Capacity	131 kw (estimate)	181 kw (estimate)	133 kw (estimate)	184 kw (estimate)

Technical Data

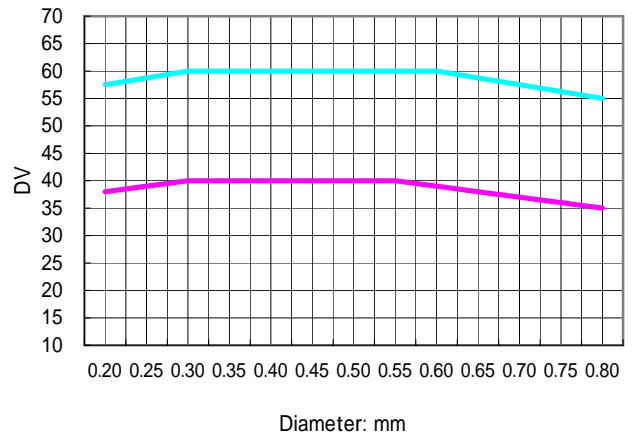
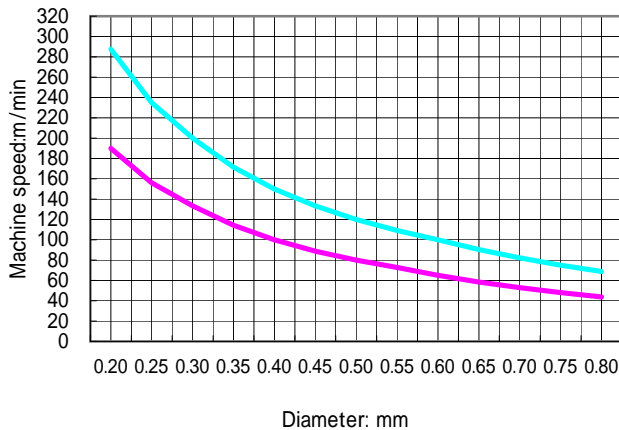
Type of Heater	PU	PEI
Standard Heater	■	■
Infrared Heater	/	/

Please make sure the example of the color of bars.

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

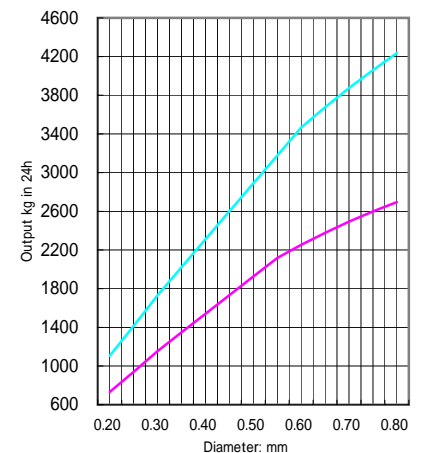
- * These data are based on "class#1 of JIS(Japan Industrial Standard) qualification".
- * Depend on suitable puroduction materials and conditions.
- * Production for over coating wire will decline about 10% than production for single coating wire.
- * Finished product applicable to JIS(Japan Industrial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

Guaranteed Production Speed



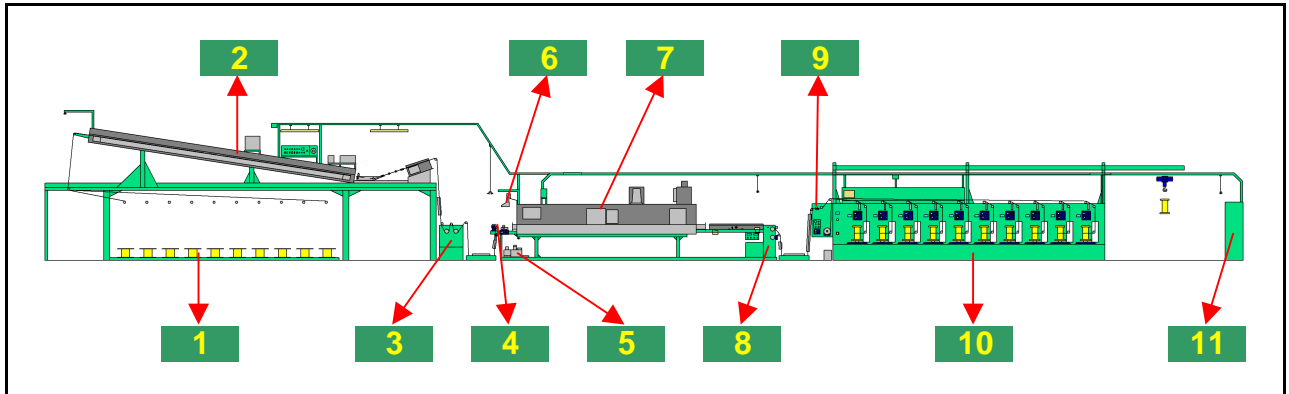
Output kg in 24 hours

Diameter: mmφ	Standard Heater					
	1 head		5 heads		10 heads	
	PU	PEI	PU	PEI	PU	PEI
0.20	111	73	554	366	1107	732
0.25	141	94	707	469	1414	939
0.30	173	116	866	578	1733	1155
0.35	202	135	1011	674	2022	1348
0.40	231	154	1155	770	2310	1540
0.45	260	173	1300	866	2599	1733
0.50	289	193	1444	963	2888	1925
0.55	318	212	1588	1059	3177	2118
0.60	347	225	1733	1126	3466	2253
0.65	368	238	1838	1189	3676	2378
0.70	387	249	1937	1247	3875	2493
0.75	406	260	2031	1300	4061	2599
0.80	424	270	2118	1348	4236	2695



Diameter: mmφ	Infrared Heater					
	1 head		5 heads		10 heads	
	PU	PEI	PU	PEI	PU	PEI
0.20	-	-	-	-	-	-
0.25	-	-	-	-	-	-
0.30	-	-	-	-	-	-
0.35	-	-	-	-	-	-
0.40	-	-	-	-	-	-
0.45	-	-	-	-	-	-
0.50	-	-	-	-	-	-
0.55	-	-	-	-	-	-
0.60	-	-	-	-	-	-
0.65	-	-	-	-	-	-
0.70	-	-	-	-	-	-
0.75	-	-	-	-	-	-
0.80	-	-	-	-	-	-

Components of Machine



1 Supply Device

For 5 heads use. Installed under operation deck of annealing oven.
Wire line guide & spooling attachment(vertical type for 5 heads) x 1 unit. Curl flyer: 10 units attached.

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

recommendation model	standard model

2 Annealing Oven

For 5 heads use. 9000mm(L) x 600mm(W) x 500mm(T), 5 pipes x 1 chamber, Heated water bath type.
Air wiping system & Hot air Re-circulation type dryer & Steam generator equipped.

For 10 heads use. 9000mm(L) x 750mm(W) x 500mm(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 150mmφ double roll device

recommendation model	standard model

4 Applicator

1 bath 1-speed type with 60mmφ coating roll device. Die wiping attachment.
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

6 Partial Exhaust Device

1 motor type

recommendation model	standard model

AHI600

7 Coating Oven

For 5 heads use. AHI600: 6000mm(L) x 1100mm(W) x 1000mm(T) x 1 chamber, Hot air Re-circulating & heat exchanger system. MN wire hanging device and Exhaust fan x 1 equipped.

For 10 heads use. AHI600: 6000mm(L) x 1500mm(W) x 1000mm(T) x 1 chamber, Hot air Re-circulating & heat exchanger system. MN wire hanging device and Exhaust fan x 1 equipped.

Standard heater

recommendation model	standard model

8 Take-up Machine

0.20-0.60mmφ For 5 heads and 10 heads use

1-speed type with 120mmφ taper capstan roll device (water cooling type). Wire adhesion alarm equipped.

0.30-0.80mmφ For 5 heads and 10 heads use

1-speed type with 150mmφ 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

0.20-0.60mmφ TAS90H(5heads) & TAS90H(10heads): 1-speed & 1-traverse type with automatic switching over (horizontal). Wire break down detector(auto stop system) and bare wire alarm equipped.

0.30-0.80mmφ TASV90(5heads) & TASV90(10heads): 1-speed & 1-traverse type with automatic switching over (vertical). Wire break down detector(auto stop system) and bare wire alarm equipped.

recommendation model	standard model

11 Control Panel

Cubicle type: 2300mm(W) x 2000mm(H) x 600mm(D), Temperature averaged controller system by 3 points(left/center/right) at each in-let & middle of heat exchange section and at Heater & of hot air Re-circulation section(5 heads type not equipped).

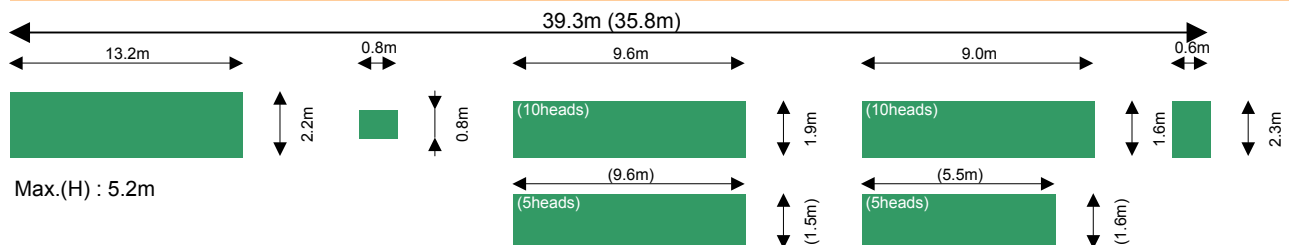
12 measuring points thermo recorder equipped. Watt-hour meter equipped.

recommendation model	standard model

* With regard to 5, every items can be utilized.

Layout

AHI600MN/TAS90H(5heads)•(10heads)



AHI600MN/TASV90(5heads)•(10heads)

