

Cosmetic Tube Manufacturing Line



KorMc



COMPANY INTRODUCTION

since 2002, KorMc has been one of Korea's leading companies serving combine high-quality plastic processing machinery manufacturers.

With its long experience and expertise allow us to offer advanced technology in tube manufacturing machine for seamless soft tubes and lami tubes.

We offer complete line of tube manufacturing machine for cosmetic as well as pharmaceutical tubes.

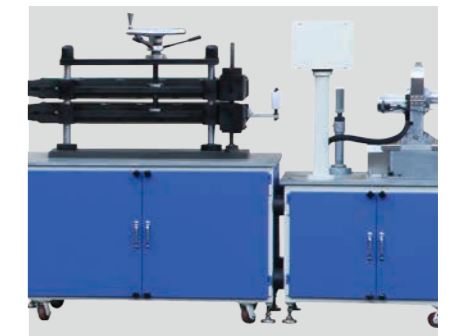
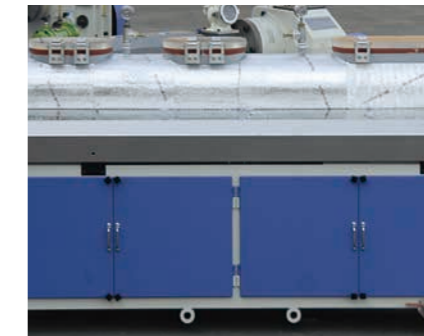
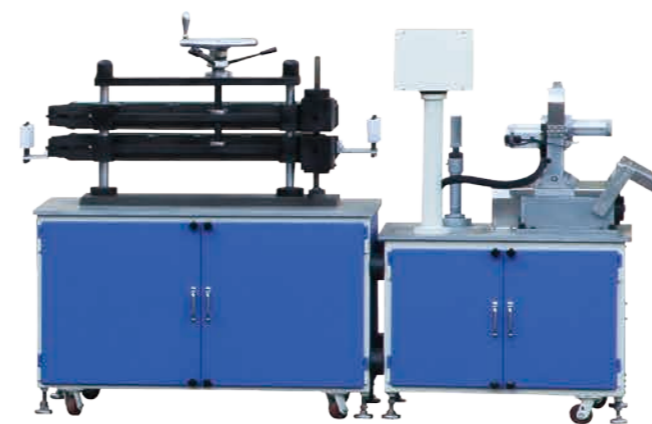
Our aim is to be a premier business partner by serving complete package of technical support for customers success.

We offer complete line of Cosmetic Tube manufacturing machines of Extruder, Head Injection Molding, Offset Printer, Capping, Hot Stamping and Ultra Sonic Tubing machine.

- **Extrusion Machine**
Extrusion lines for manufacturing seamless soft tube from mono layer up to 5 layers.
- **Head Injection Molding Machine**
Injecton molding machine for manufacturing head & shoulder on sleeve for round and oval shape tube.
- **Offset Printing and Lacquering Machine**
Printing on plastic soft tubes with lacquering and drying for both UV and non-UV.
- **Capping Machine**
Automatically close and tightening a cap on top of tube for screw and snap-on caps.
- **Hot Stamping Machine**
Decorating on tube by hot stamping.
- **Welding (Sealing) Machine**
Ultra sonic welding machine for lami tubes.

Multi-layer Extruding & Cutting Machine

By extruding, making sleeve is the first step of seamless soft tube producing procedure. And surface quality of sleeve is the first priority for valuable cosmetic tube. Our accumulative technology delivers perfect surface even at high speed.



Vacuum & Cooling Tank

- Fine quality of sleeve surface achieved by our own designed calibrator and stable vacuum control.
- High efficient closed-loop cooling water circulation system gives shiny surface of sleeve.

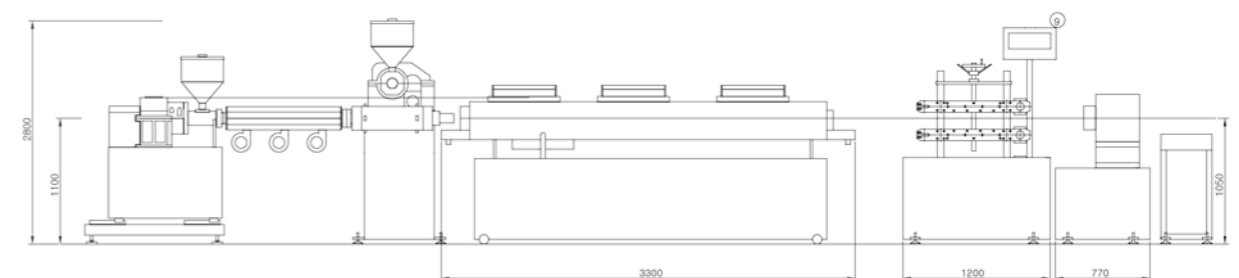
Haul-Off & Cutter

- Anti-slip rubber coated flat belt ensure constant diameter of sleeve even at high speed for all different diameter.
- Servo drive control allows precise length cutting of sleeve as well as synchronized with line speed.



Extruder & Head

- Flexible modulated co-extruder and head block. Accurate thickness and uniformity.
- Excellent color dispersion even pearl color masterbatch.



SPECIFICATION

MODEL	SH-E200-1L	SH-E200-2L	SH-E200-3L	SH-E200-5L
No. of Layer	1 layer	2 layer	3 layer	5 layer
Connected Load	59 kw	96 kw	132kw	121 kw
Cooling Water	26,000 kcal	26,000 kcal	26,000 kcal	26,000 kcal
Machine Weight	3.5 ton	4.3 ton	5.2 ton	6 ton

FEATURES

- Fast and easy tool change for different diameter of tube.
- Modulated calibrator for saving time and expense.
- Servo drive technology is used for haul-off and cutting device which enables accurate length.
- Faster color changing time.
- User friendly operating panel.



PRODUCTION FEATURE

MODEL	SH-E200-1L	SH-E200-5L
Tube Diameter	Ø16~Ø60 mm	Ø16~Ø60 mm
Tube Length	50~250 mm	50~250 mm
Line Speed	16~20 m	16~20 m
Capacity	200 tubes/min.	200 tubes/min.

Head Injection Machine

We presents proven injection molding technology for the benefit of tube manufacturers. This injection molding machine makes perfect edge of shoulder with high surface quality.



FEATURES

- Servo drive is used for infeed conveyor which enables zero deficity of sleeve feeding.
- Orientation function for oval tube and oriented cap.
- Clean and pricise orifice cutting divice.
- User friendly operating panel.



PRODUCTION FEATURE

MODEL	IT-H228	IT-H428	IT-H632
No. of Cavity	2 cavity	4 cavity	6 cavity
Capacity	16~22 pcs/min	32~44 pcs/min	48~66 pcs/min
Tube Diameter	Ø16~Ø60 mm	Ø16~Ø60 mm	Ø16~Ø60 mm
Tube Length	60~200 mm	60~200 mm	60~200 mm

Cost effective adaptability for round shape, oval and snap-on tubes.

Minimized man power by fully automatic operation will ensure high investment ratio.



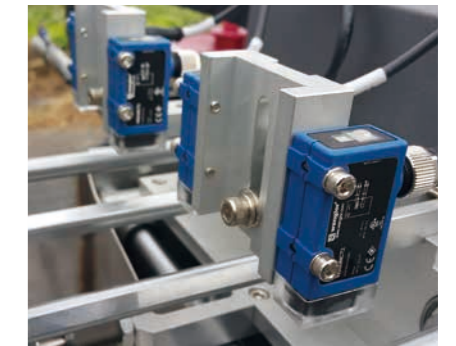
Index Unit

- Horizontal 4-step index enables mult-function in one machine.
- All-in-One for sleeve length alignment, heading, gate cutting for orfrice and top sealing.



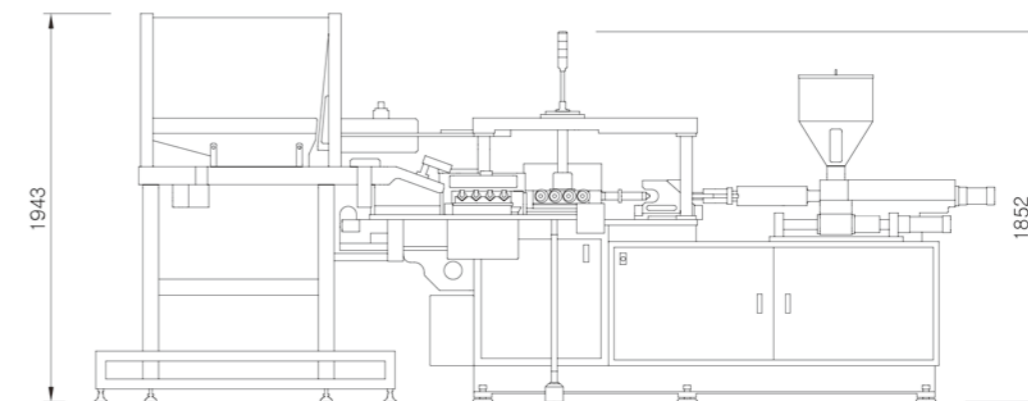
Injction Unit

- Minimized friction to achieve precise molding by sliding bearing.
- Accurate repeatability by advanced hydraulic system.



Orientation Unit

- Perfect orientation by high precision sensor and servo technology.
- Essential function for oval tubes and oriented snap-on cap applications.



- Top sealing function is available on head injection machine. Aluminum or plastic laminated membrane punched and welded on top of the tube precisely.
- Automatic conveying system is available for connecting and synchronizing between head injection and capping machine.
- Cap sorter and feeder for oriented snap-on cap.

SPECIFICATION

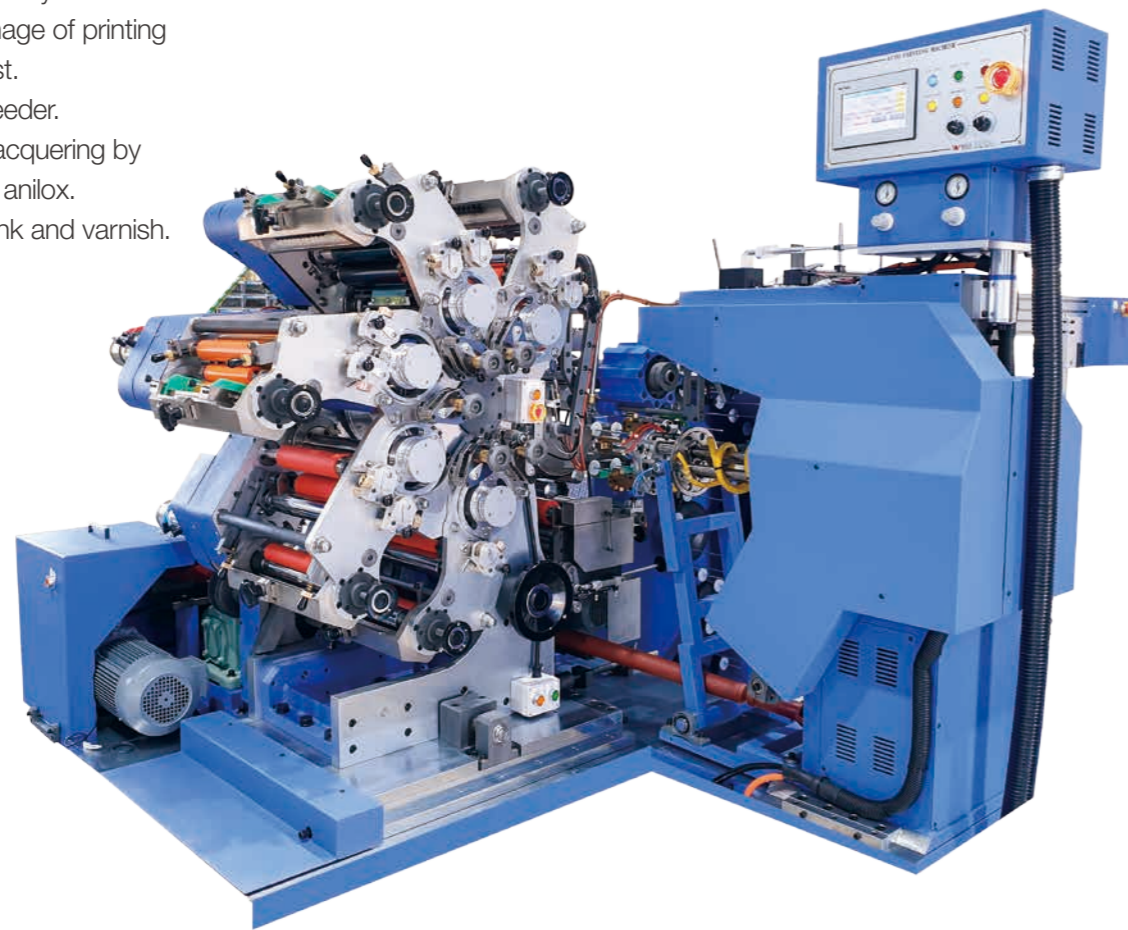
MODEL	IT-H228	IT-H428	IT-H632
Screw Diameter	Ø28 mm	Ø28 mm	Ø32 mm
Hydraulic Oil	50 ℓ	50 ℓ	70 ℓ
Power Consumption	7 kw	10 kw	14 kw
Air Consumption	340 ℓ/min	470 ℓ/min	590 ℓ/min

Offset Printing and Lacquering Machine

As an well known technology, We offers improved technology of offset printing and lacquering machine for extruded plastic tubes and sleeves.
Reliable performace ensure high-end attractive printing quality at high productivity.

FEATURES

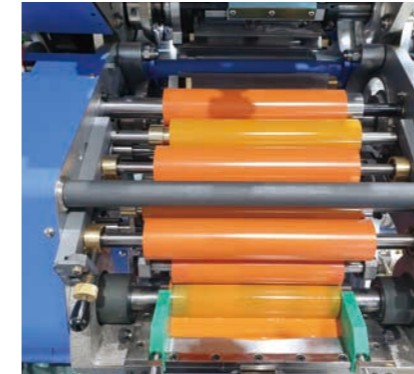
- Surface pre-treatment by gas flame.
- Gradiation in high quality.
- Easier and faster chage of printing plate and pint adjust.
- Starwheel type of feeder.
- Precise measured lacquering by very fine surface of anilox.
- UV curing for both ink and varnish.



PRODUCTION FEATURE

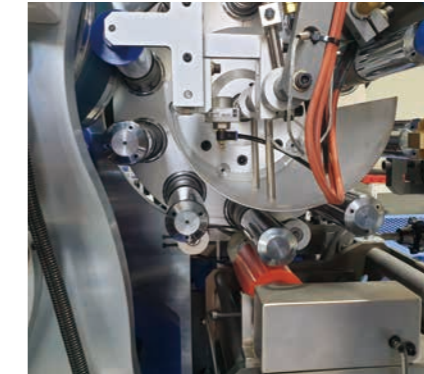
MODEL	WT-P580
No. of Color	5 color
Capacity	80 pcs/min
Tube Diameter	Ø16~Ø60 mm
Tube Length	60~200 mm

Complete Printing, lacquering and drying in one machine.
Decoration by printing on tube is the most important for better appearance to consumers.



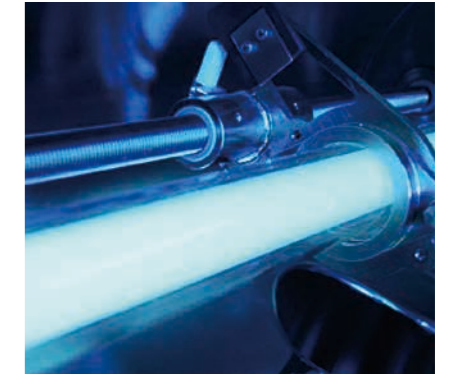
Ink Transmission Unit

- High precision of each roller ensures perfect ink dispersion broadly.
- Easy control for gradiation.



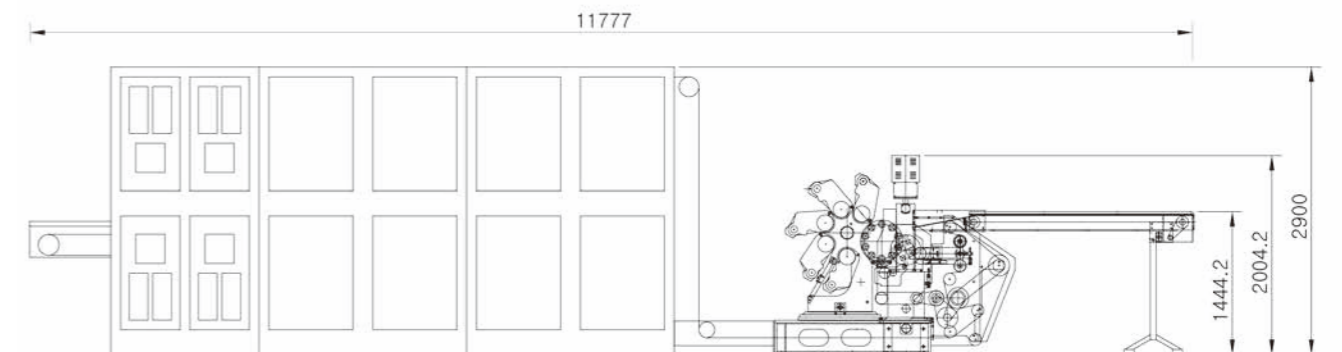
Lacquering Unit

- Precise measured and broad lacquering by very fine surface of anilox.
- Accurate control for coating thickness.



UV Curing Unit

- UV curing system can be chosen for both ink and lacquer.
- UV curing will benefit fast drying and less energy consumption.



SPECIFICATION

MODEL	WT-P580
No. of Blanket	1
No. of Mandrel	10
Air Consumption	450 l/min
Power Consumption	14 kw

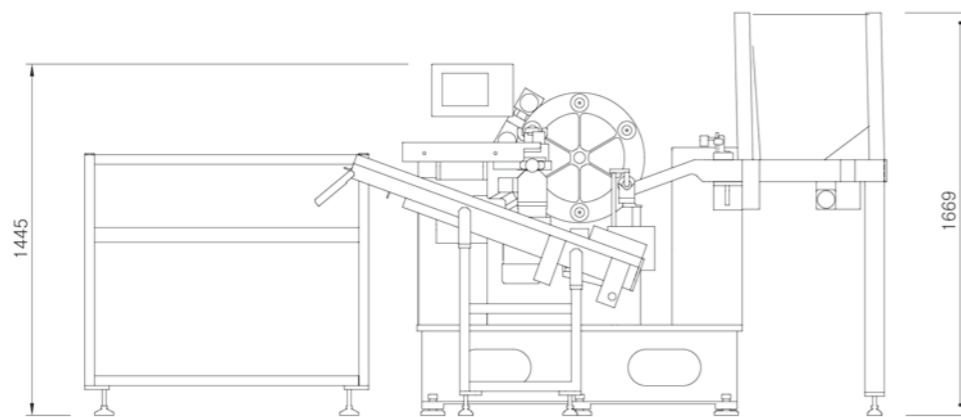
Capping Machine

To meet customer's need we have developed unsurpassed capping machine by expertise through our many years of experience.



FEATURES

- Screw and snap-on cap.
- Various torque adjustment for cap tightening.
- Tubes feed from storage hopper automatically.
- Starwheel type drum feeder and pusher.
- Orientation by servo control and sensing.



SPECIFICATION

MODEL	IT-C600
No. of Mandrel	12
Air Consumption	450 ℓ/min
Power Consumption	6 kw

PRODUCTION FEATURE

MODEL	IT-C600
Applicable Cap	Screw, Snap-On
Capacity	70 pcs/min
Tube Diameter	Ø16~Ø60 mm
Tube Length	50~200 mm

Hot Stamping Machine

Hot stamp is a value added decorating for seamless and lami tubes. We's Customer-oriented efforts and innovative technology delivers perfect quality of hot stamping machine.

FEATURES

- Reel Tape Feeder, tension control for hot stamp foil.
- Cartridge type of heater.
- Pressure control.
- Automatic Positioning for pint.
- Orientaton I-mark sensor.



PRODUCTION FEATURE

MODEL	IT-S400
No. of Mandrel	10
Capacity	40 pcs/min
Tube Diameter	Ø16~Ø60 mm
Tube Length	50~200 mm

Ultrasonic Welding and Cutting Machine

We offers the most economic way of tube forming, seaming and cutting machine. Ultrasonic welding machine is suitable for both ABL and PBL tubes.



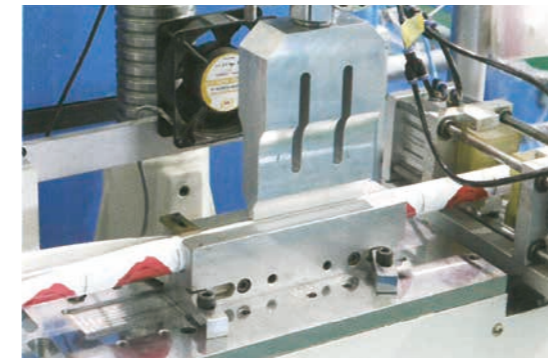
FEATURES

- Forming tube sleeve by ultrasonic welding.
- Flexibility for both ABL and PBL tubes.
- Accurate cutting length.
- Low energy consumption.

PRODUCTION FEATURE

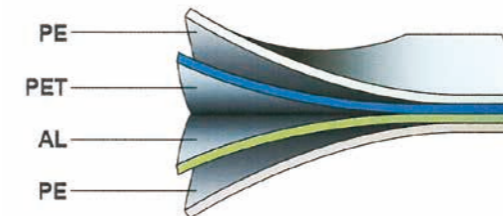
MODEL	SW-W200-US	SW-W100-HF
Applicable Tube	ABL, PBL	ABL, PBL
Capacity	16~22 sleeve/min	16~22 sleeve/min
Tube Diameter	Ø16~Ø60 mm	Ø16~Ø60 mm
Tube Length	50~200 mm	50~200 mm

ABL and PBL tubes are a light, hygienic and safe method of packaging that prevents leakage, provides UV protection and can also hold more aggressive products.

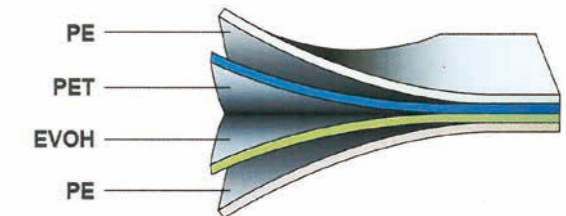


- Lami tube has almost no limits of decoration due to flat sheet printing technology.
- Out ultrasonic welding machine can make sleeve up to 0.5mm thickness without distortion of printing and barrier.
- Easy to control pressure and pressing time.

ABL(Aluminum Barrier Laminate)

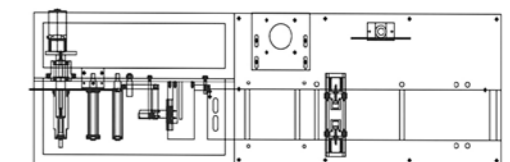
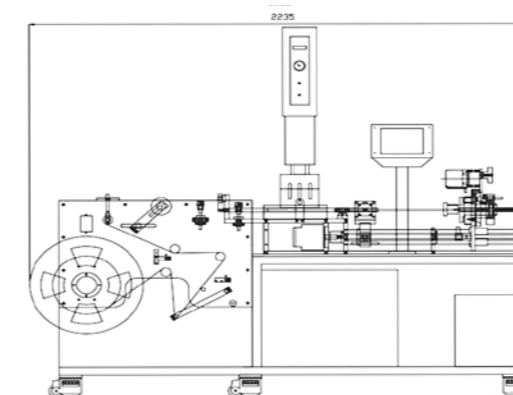


PBL(Plastic Barrier Laminate)



ABL & PBL

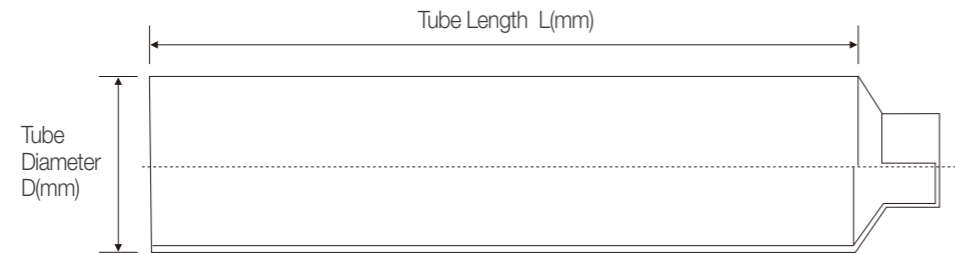
Available for both ABL(Aluminum Barrier Laminate)sheet and PBL(Plastic Barrier Laminate) sheet without any limit of use.



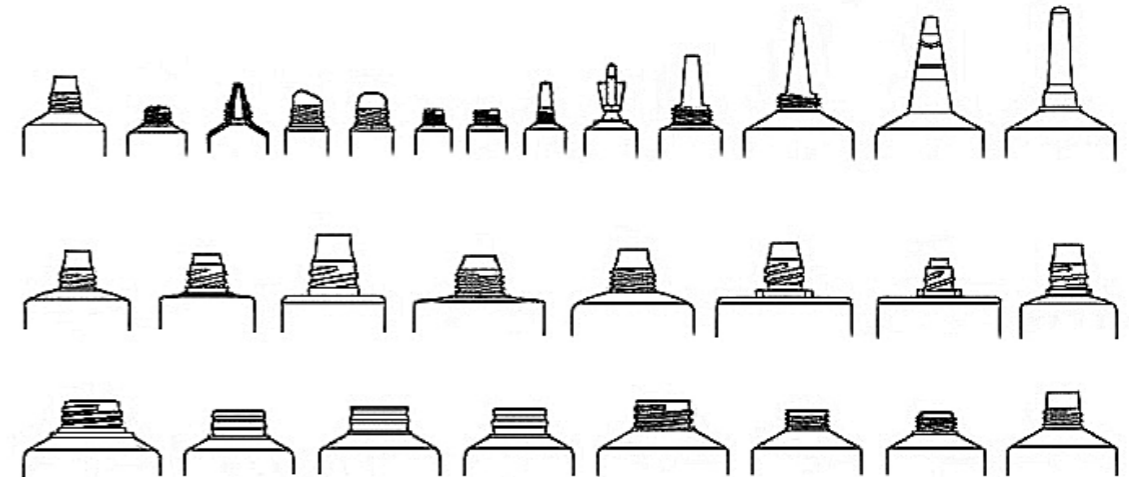
SPECIFICATION

MODEL	SW-W200-US	SW-W100-HF
Welding Method	Ultra Sonic	High Frequency
Power Consumption	3 kw	3 kw
Machine Weight	0.3 ton	0.3 ton

Information



Examples of Tube Head



Tube Dimension & Filling Capacity

1. Tube diameter is fixed, length can be adjusted by filling capacity accordingly.
2. Below tube length is the general testing result after sealing.
3. Below tube length is for reference only, the length can be changed by sealing condition and requirements.

Capacity(ml)	Length(mm)	Diameter (mm)	Oval Tube							Round Tube													
			Ø25	Ø30	Ø35	Ø38	Ø40	Ø45	Ø50	Ø16	Ø19	Ø22	Ø25	Ø30	Ø35	Ø38	Ø40	Ø45	Ø50	Ø60			
3ml																							
5ml										45	40												
10ml										73	55	48											
15ml			59							101	75	65	55										
20ml			71								95	81	67										
25ml			82	66							115	95	78	65									
30ml			93	77								108	89	74									
35ml			104	84								122	100	81									
40ml			114	91	79								110	88	71								
45ml			124	99	85								120	96	77								
50ml				108	90	86							130	105	82	78							
60ml				123	103	96	89							120	95	88	85						
70ml					118	106	97								110	95	93						
80ml						128	117	107	90							120	109	103	86				
90ml						138	125	116	98							130	117	112	94				
100ml							135	124	106	96						142	127	120	105				
120ml							155	144	120	112							147	140	124	101			
150ml								170	144	132								166	140	121			
180ml									163	152									159	138	111		
200ml									177	165									173	148	120		
220ml										186										160	131		
240ml																					170	141	
250ml																						175	146
300ml																							165
350ml																							185
400ml																							210



KorMc

Mobile : +82-10-8510-8210

e-mail : kormc@kormc.kr

www.kormc.kr