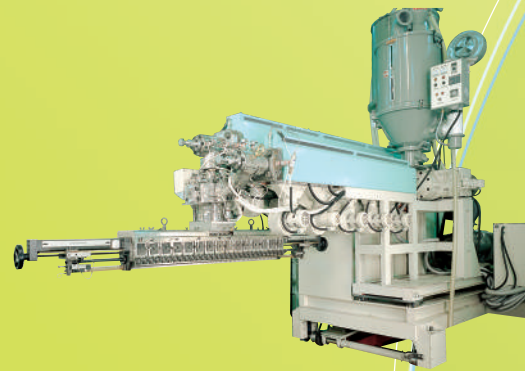




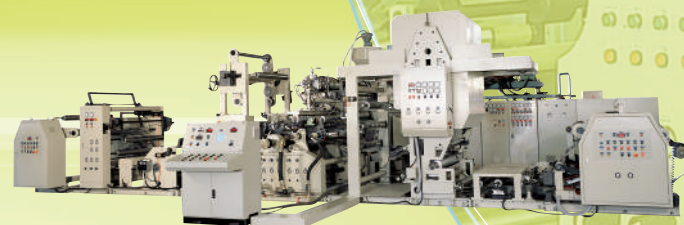
EXTRUSION 
ISO 9001:2008



EXTRUSION LAMINATION



FK/LAFP-100-1500



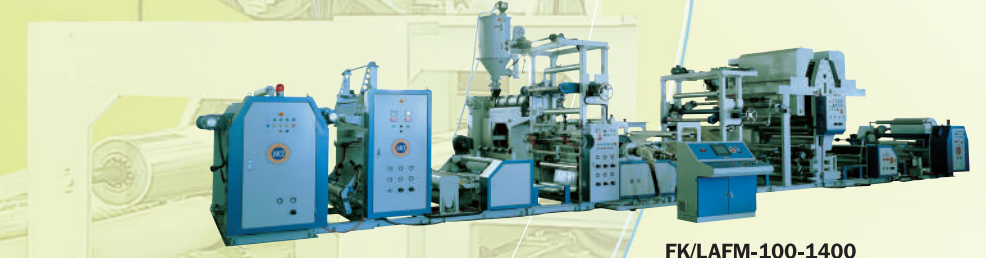
FK/LAFM-100-1400



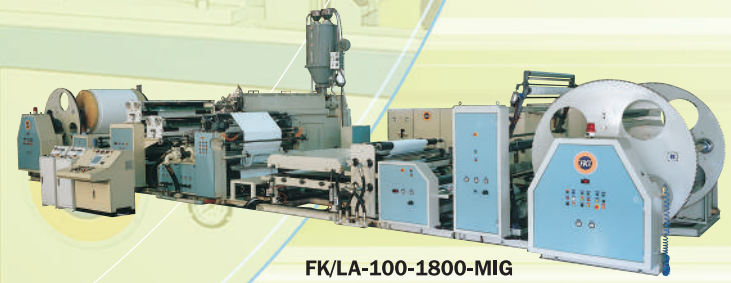
FK/LAFM-100-1400



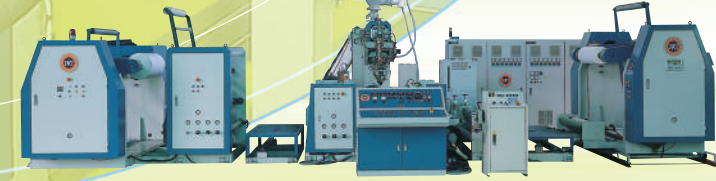
FK/LAFP-125-1800



FK/LAFM-100-1400



FK/LA-100-1800-MIG



FK/LA-100-1500



An ISO 9001:2008 Company

鳳記國際機械股份有限公司

FONG KEE INTERNATIONAL MACHINERY CO., LTD.

HEAD OFFICE:

71042 台灣台南市永康區正北一路168號

71042 No. 168 Cheng Pei First Road,

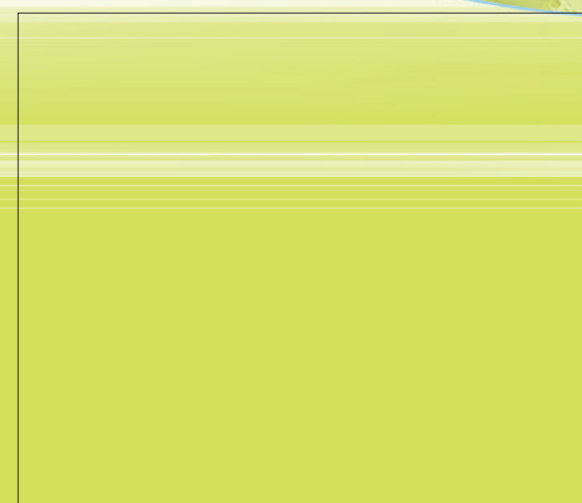
Yong Kang District, Tainan City, Taiwan.

TEL: +886-6-2532157, 2537211

FAX: +886-6-2533079, 2530277

<http://www.fki.com> Email: sales@fki.com

AGENT:



EXTRUSION SYSTEM LAMINATION MACHINE

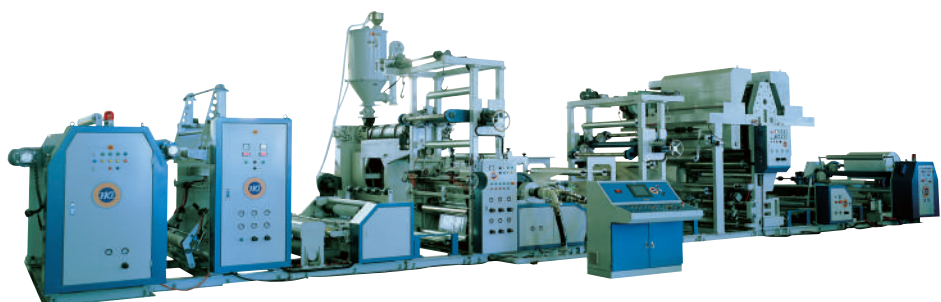


EXTRUSION SYSTEM LAMINATION MACHINE >>>
FOR FLEXIBLE PACKAGING FILM APPLICATIONS

Model FK/LAFP-125-1800
Working line speed up to 350 M/min



Model FK/LAFM-100-1400
Working line speed up to 250 M/min.



EXTRUSION SYSTEM LAMINATION MACHINE >>>
FOR INDUSTRIAL APPLICATIONS

Model FK/LA-100-1800-MIG
Working line speed, 200 M/min.



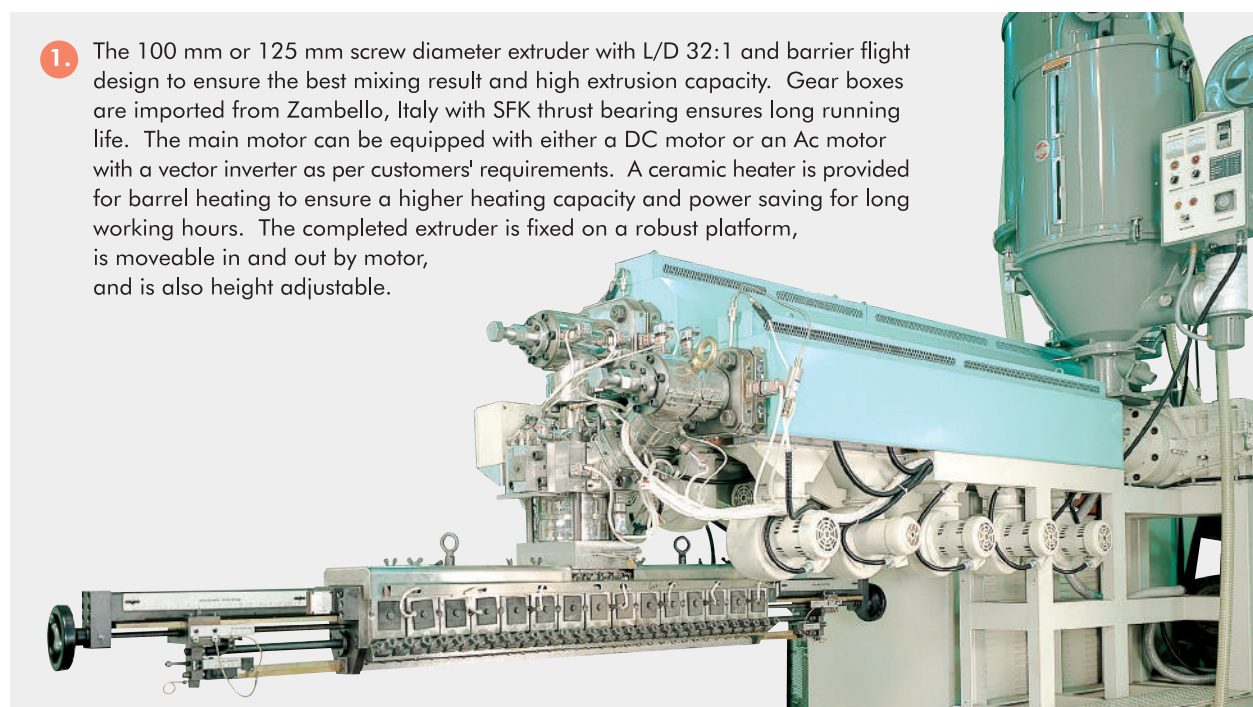
Model FK/LA-100-1500
Working line speed, 120 M/min.



EXTRUSION SYSTEM LAMINATION MACHINE

FKI offers the most advanced and adaptable extrusion system lamination machines for various applications, such as for flexible packaging films like: BOPP, BOPET, CPP, Nylon and aluminum foil, or for craft paper, release paper, tissue paper, cardboard paper, woven fabric, etc. The workable coating materials that can be extruded are LDPE, PP, PEVA, EVA and Surlyn, etc.

Based on twenty years of experience, FKI is capable of offering extrusion lamination machines with reliability, and versatility to meet different requirements, from mono layer coating and co-extrusion lamination to tandem lamination. The working speed is available from 110 M/min. to 300 M/min. for both flexible packaging films and papers. The speed and tension control can be synchronized by DC drive or through digital drives to the PLC system.



1. The 100 mm or 125 mm screw diameter extruder with L/D 32:1 and barrier flight design to ensure the best mixing result and high extrusion capacity. Gear boxes are imported from Zambello, Italy with SFK thrust bearing ensures long running life. The main motor can be equipped with either a DC motor or an Ac motor with a vector inverter as per customers' requirements. A ceramic heater is provided for barrel heating to ensure a higher heating capacity and power saving for long working hours. The completed extruder is fixed on a robust platform, is moveable in and out by motor, and is also height adjustable.

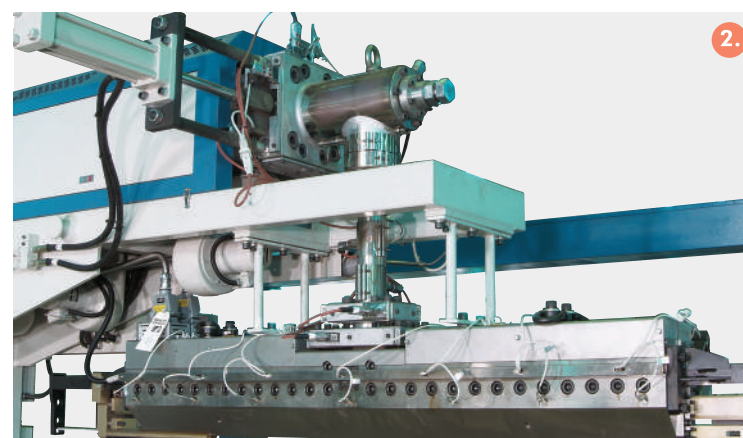
4. The unwinder is of fully automatic design with auto splicing, auto cut and auto change functions. There is no need to lower down the working speed when a reel change is required. Adhesive tape is required to be wrapped over the paper core before the change over only. The air shaft is the standard attachment for the winding core.



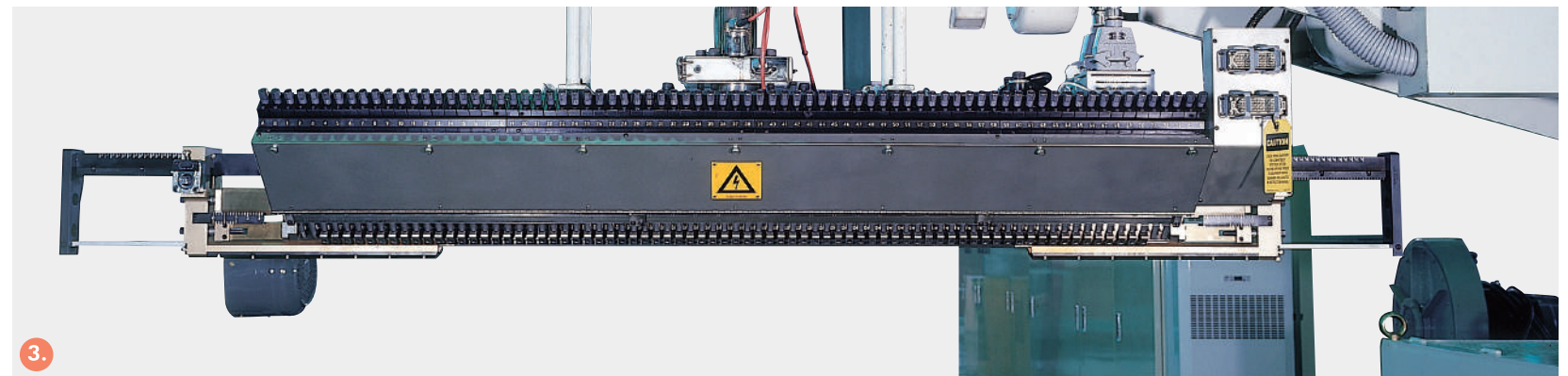
6. **SANDWICH UNWINDER**
The sandwich unwinder is a standard device for flexible packaging film extrusion machines to unwind the second substrate, such as aluminum foil, with the main substrate at the same time, in one process. Manual adjustment by the handle wheel for the substrate width and the reel change over is the standard design.



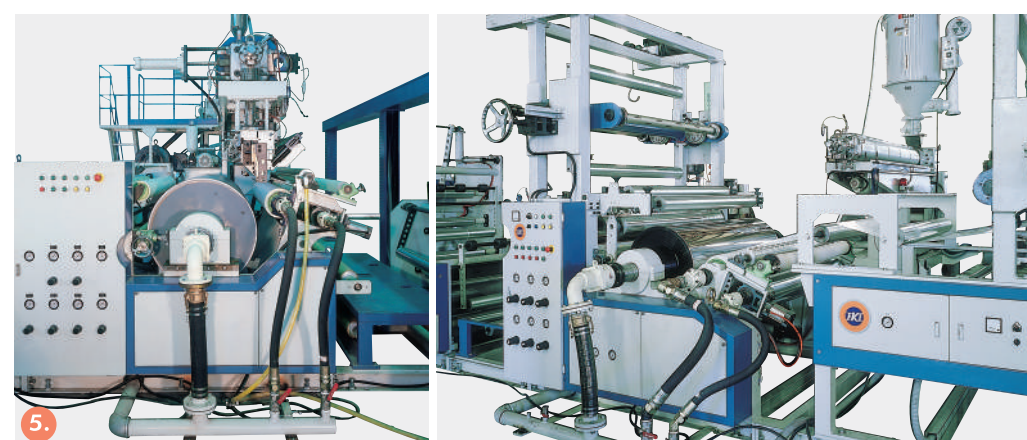
7. The winder is of fully automatic design, with auto splicing; auto cut and auto change over. Taper tension is auto adjusted during the winding while the winding roller is being built bigger and bigger. An auto counter is provided as a standard attachment for pre setting for the required length with the alarm.



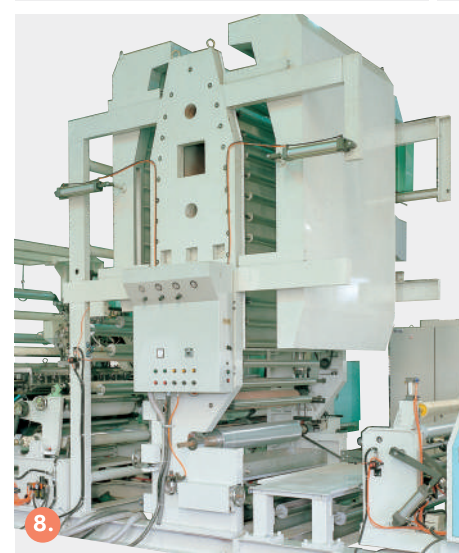
2. The melt pressure adjusting valve is the standard device of manual adjustment for a proper melt flow pressure for a different kind of material.



3. The T-die is of T-drop design to ensure an even flow of pressure. The internal deckle device is of a 3 rod design, ensuring a very thin neck in. There is a hand wheel attached to the internal deckle device for easy adjustment on the working width. An aluminum casting heater is our standard to give high and stable heating quality. The T-dies are imported from the USA or Japan, or even Auto Die with auto push/pull on the die bolts are all available as options.



5. **LAMINATION UNIT**
The lamination unit of 3 rolls arrangement, with the main chill roll of 450 mm, 600 mm and 800 mm diameters to give the best possible cooling result depending on the work line speed. The small diameter liquid coated silicon rubber roller gives the best release function, as well as the least cost for frequent replacement. The spiral-type water cooling circuit gives the best cooling efficiency to maintain the water in/out temperature at only 1°C. Quick joints provided for fast changes over both the chill roller and silicon rubber can be provided as an option. The edge trimming devices, score cutter or scissor blade is all available as per requirement and trimmed edge disposal by blower and piping are provided as standard.



OPERATION CONTROL PANEL

8. The primer anchor coating unit is required for those substrates needing primer to be applied for a proper bonding. Screen rollers with doctor blades or press rollers are all available as per your requirements. The heating oven is of an arch type design, combined with air knife, to ensure a proper and even heating function.

9. The operation panel of an independent and upright type comes complete with a 10" color monitor for all the working parameters. It is programmed by Mitsubishi brand's PLC system. It not only sets the working temperature, but also the tension, the speed (whether synchronized or individually controlled), the alarm for any malfunctions and the memory saved for the working data for different job orders.

The infeed unit, with driving system, is a standard device when the working speed is 200 M/min. and up.

EXTRUSION SYSTEM LAMINATION MACHINE >>>

LAFM, LAFP series

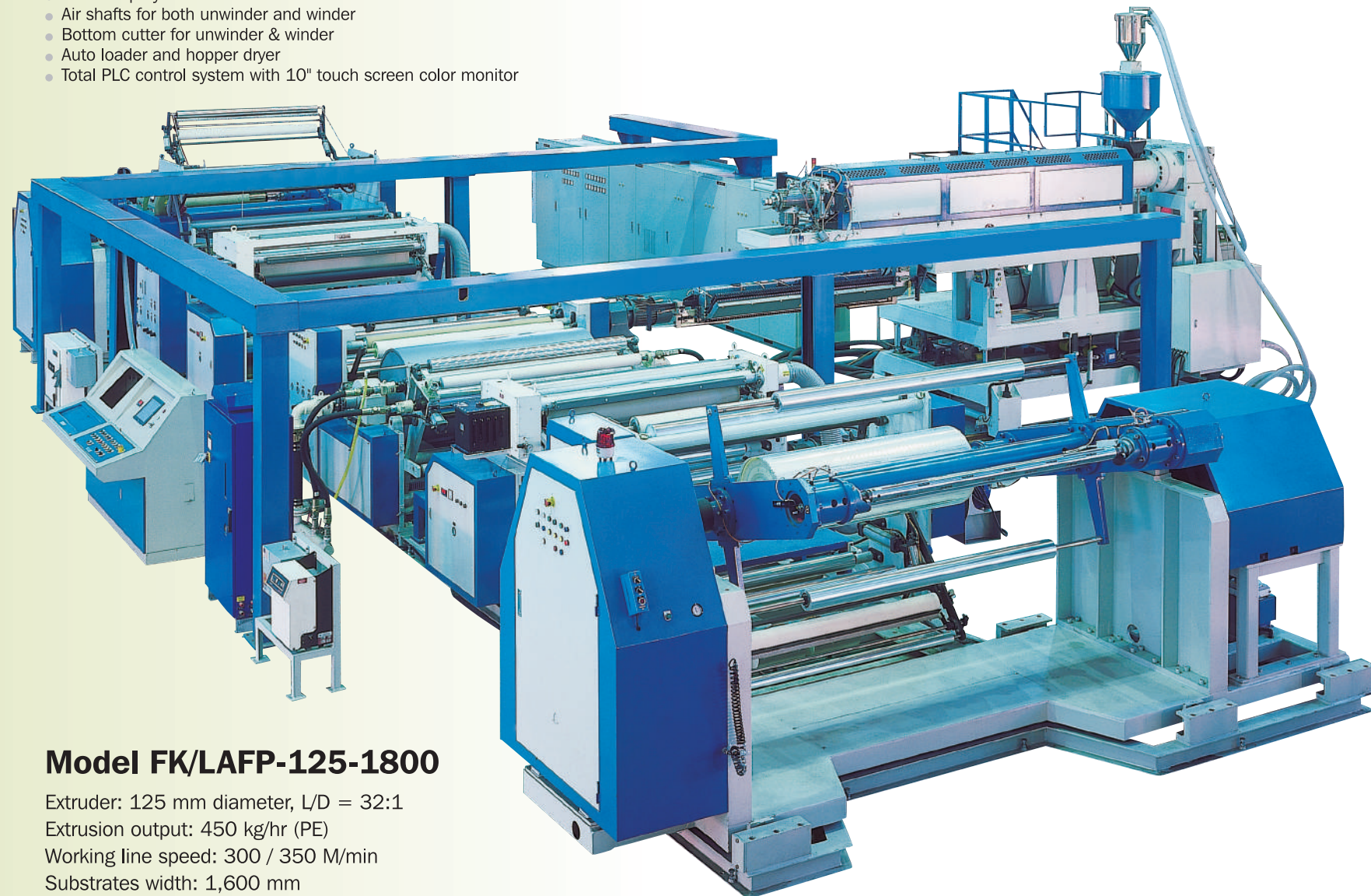
Mainly designed for working on all kinds of flexible packaging films, such as: BOPP, BOPET, CPP, Aluminum foil, metallized films, nylon and etc..

Standard Parts:

- 125 mm extruder with 200 hp dc motor or ac vector inverter
- Ceramic heater for barrel heating
- Gear box imported from Europe with SKF thrust bearing
- Extruder forward, backward and height adjustable by motor
- Temperature controller of PID display with SSR output
- Melt pressure and thermo gauge, Dynisco brand
- Melt pressure adjustable adaptor
- Tube type manual system screen changer
- Aluminum heater for T-die
- In feed unit before the unwinder and lamination unit
- Japan made EPC for unwinder
- Unwinder with director drive control
- Main cooling roller of 800mm diameter
- Cooling rollers with fast changeover joint
- Prime anchor coater with 2200 mm x 2 heating length
- Powder spray for winder
- Air shafts for both unwinder and winder
- Bottom cutter for unwinder & winder
- Auto loader and hopper dryer
- Total PLC control system with 10" touch screen color monitor

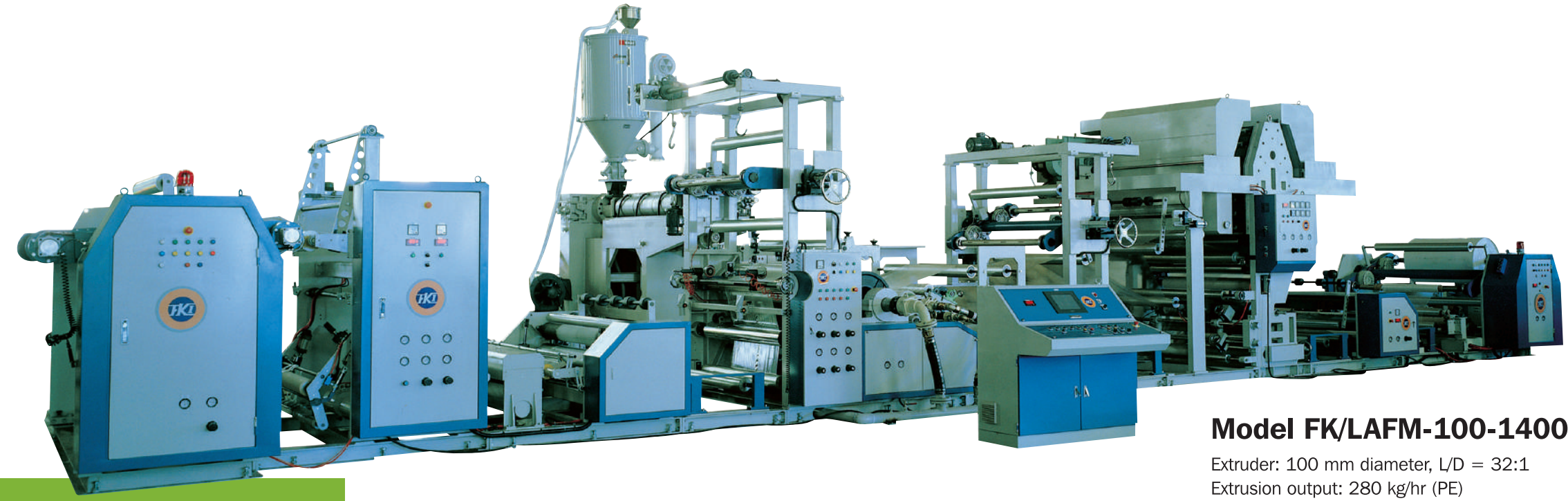
Optional Device:

- Hydraulic screen changer
- Automatic T-die with gauge control system
- Top cutter for unwinder and winder
- Corona surface treater
- Water chiller
- Extra cooling roller of mirror finished or semi mat surface
- Extra silicon rubber roller
- Air conditioner for control panel
- Other special accessories



Model FK/LAFP-125-1800

Extruder: 125 mm diameter, L/D = 32:1
 Extrusion output: 450 kg/hr (PE)
 Working line speed: 300 / 350 M/min
 Substrates width: 1,600 mm
 Max. winding diameter: 1,000 mm



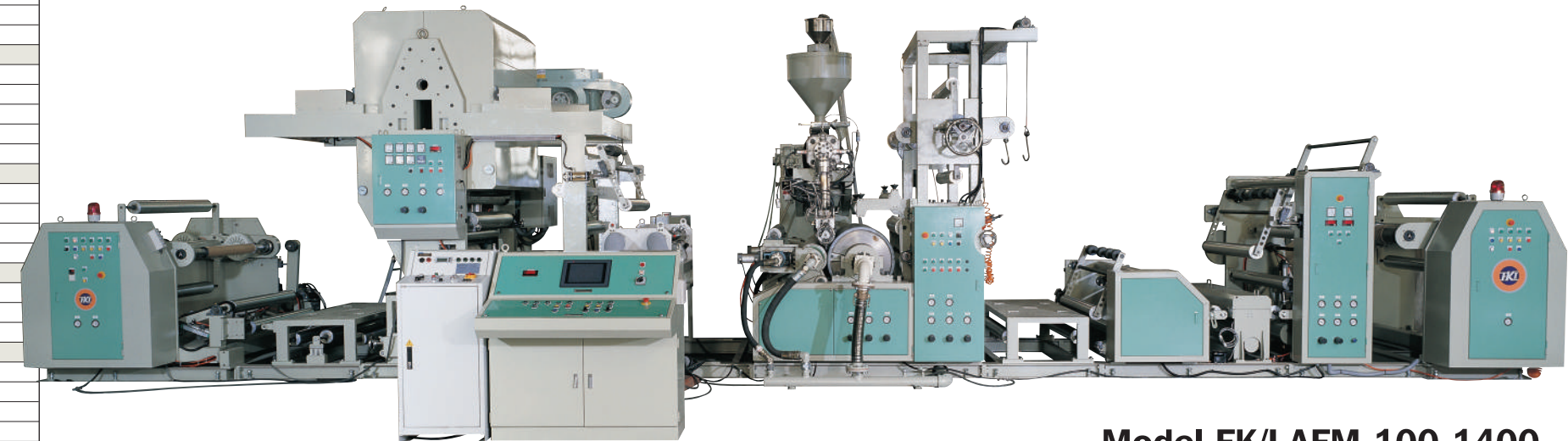
Model FK/LAFM-100-1400

Extruder: 100 mm diameter, L/D = 32:1
 Extrusion output: 280 kg/hr (PE)
 Working line speed: 180 / 250 M/min
 Substrate width: 1,200 mm
 Max. winding diameter: 800 mm

SPECIFICATIONS:

MODEL	FK/LAFP-125-1800	FK/LAFM-100-1400	型號
Substrates	BOPP, BOPET, CPP, alum foil, cellophane, metallized film		母材
Dimensions	Ø1200 x 1600 mm	Ø800 x 1200 mm	母材規格
Lamination width	1100 ~ 1600 mm	700 ~ 1200 mm	淋膜寬度
Lamination thickness	0,012 ~ 0,06 mm	0,012 ~ 0,06 mm	淋膜厚度
Mechanical speed designed	300 m/min	180 m/min	機械設計速度
Extrusion output	350~450 kg/hr (PE), 250~350 kg/hr (PP)	250~280 kg/hr (PE), 180~250 kg/hr (PP)	押出量
Extruder	High base type 高壓式		押出機
Screw diameter	125 mm	100 mm	螺桿直徑
Screw L/D	32 : 1	32 : 1	螺桿長徑比
Barrel heating	90 kw	67,5 kw	套筒加熱
Barrel cooling	0,375 kw x 6 zone	0,375 kw x 5 zone	套筒冷卻
Main drive	150 kw	75 kw	主傳動馬力
T-die	Internal deckle bar 倉內部寬度調整		T型模頭
Slit width	1900 mm	1500 mm	開口最大寬度
Working width	1100 ~ 1600 mm	700 ~ 1200 mm	淋膜寬度
Heating capacity	28 kw	22,2 kw	加熱容量
Heating zone	7	7	加熱溫度點
Unwinder	Auto turret type		放台
Substrate size	Ø1200 x 1600 mm	Ø800 x 1200 mm	母材規格
Turret reverse motor	2,25 kw with reducer	1,5 kw with reducer	翻轉馬力
Drive motor	22,5 kw x 2	powder brake	傳動馬力
Anchor coater	Air knife type		AC披覆單元
Coating roller	Ø210 x 1800 mm	Ø210 x 1400 mm	塗佈輪
Drying oven	2200 mm x 2	1200 mm x 2	乾燥烘箱
Air knife number	24 pcs	16 pcs	風刀數量
Drying capacity	60 kw x 2	34 kw x 2	乾燥能量
Air blower	7,5 kw / 5,6 kw	3,75 kw / 3,75 kw	乾燥風車
Drive motor	5,6 kw	3,75 kw	傳動馬力
In-Feed Unit	Yes	Nil	導入裝置
Pinch roller	Ø225 x 1800 mm	Ø225 x 1400 mm	引取導輪
Rubber roller	Ø150 x 1800 mm	Ø150 x 1400 mm	引取膠輪
Drive motor	5,6 kw	2,25kw	傳動馬力
Lamination unit	3 roller type		淋膜裝置
Coating roller	Ø600 x 1800 mm	Ø600 x 1400 mm	冷卻輪
Silicon rubber roller	Ø260 x 1800 mm	Ø260 x 1400 mm	矽利康輪
Back up roller	Ø250 x 1800 mm	Ø250 x 1400 mm	背壓輪
Drive motor	15 kw	7,5 kw	傳動馬力
Release roller	5,6 kw	PIV system	剝離輪
Sandwich Unwinder	Semi auto turret type		三合一放台
Substrate size	Ø500 x 1600 mm	Ø500 x 1200 mm	母材規格
Turret reverse	manual	manual	翻轉控制
Tension control	semi auto with powder brake	semi auto with powder brake	張力控制
Out-Feed Unit			導出裝置
Pinch roller	Ø225 x 1800 mm	Ø225 x 1400 mm	引取導輪
Rubber roller	Ø150 x 1800 mm	Ø150 x 1400 mm	引取膠輪
Drive motor	5,6 kw	2,25 kw	傳動馬力
Winder	Auto turret type		捲取裝置
Winding range	Ø1200 x 1600 mm	Ø800 x 1200 mm	捲取規格
Turret reverse drive	2,25 kw with reducer	1,5 kw with reducer	翻轉馬力
Winding motor	22,5 kw x 2 sets	3,75 kw x 2 sets	捲取馬力
Air shaft	3", ID:76 mm, OD:89 mm	3", ID:76 mm, OD:89 mm	捲取空氣軸
Utilites			其他
Machine dimensions (L x W x H)	15 x 13 x 5 m	13,5 x 13 x 5 m	機械尺寸 (L x W x H)
Space required (L x W x H)	18 x 14 x 5 m	17,0 x 14 x 5 m	佔地面積 (L x W x H)
Total power consumption	385 kw	290 kw	總耗電量
Average power consumption	230 kw/hr	200 kw/hr	平均耗電量

• All specifications, design and characteristics shown above are subject to change without prior notice.



Model FK/LAFM-100-1400

Standard Parts:

- 100 mm extruder with 100 hp dc motor or ac vector inverter
- Ceramic heater for barrel heating
- Gear box imported from Europe with SKF thrust bearing
- Temperature controller of PID display with SSR output
- Melt pressure and thermo gauge, Dynisco brand
- Melt pressure adjustable adaptor
- Aluminum heater for T-die
- Taiwan made EPC for unwinder
- Unwinder with power brake control
- Main cooling roller of 600mm diameter
- Cooling roller with fast changeover joint
- Prime anchor coater with 1200 mm x 2 heating length
- Powder spray for winder
- Air shafts for both unwinder and winder
- Bottom cutter for unwinder and winder
- Auto loader and hopper dryer
- Total PLC control system with 10" touch screen color monitor

Optional Device:

- Hydraulic screen changer
- In feed unit in between unwinder and lamination unit
- Prime anchor coater with 1800 mm x 2 heating length
- Additional unwinder before lamination unit
- Top cutter for unwinder and winder
- Japanese made or American made T-die
- Corona surface treater
- Water chiller
- Extra cooling roller with mirror finished or semi mat surface treatment
- Extra silicon rubber roller
- Air conditioner for control panel
- Other special accessories

EXTRUSION SYSTEM LAMINATION MACHINE >>>

LA-MIG, LA series

Mainly designed for working on all kinds of paper, such as craft paper, release paper, tissue paper, and non-woven fabric, woven fabric, etc..

Model FK/LA-100-1800-MIG

Standard Parts:

- 100 mm extruder with 100 hp dc motor or ac vector inverter
- Gear box imported from Europe with SKF thrust bearing
- Ceramic heater for barrel heating
- Temperature controller of PID display with SSR output
- Melt pressure and thermo gauge, Dynisco brand
- Melt pressure adjustable adaptor
- Tube type manual system screen changer
- Aluminum heater for T-die
- Japan made EPC for unwinder
- Unwinder with direct drive system
- Pre-heating rollers before lamination unit
- In feed unit before the unwinder and lamination unit
- Main cooling roller of 600 mm diameter
- Cooling roller with fast changeover joint
- Air shafts for both unwinder and winder
- Bottom cutter for unwinder and winder
- Auto loader and hopper dryer
- Total PLC control system with 10" touch screen color monitor

Optional Device:

- Hydraulic screen changer
- Top cutter for unwinder and winder
- Corona surface treater
- Water chiller
- Extra cooling roller with mirror finished or semi mat surface treatment
- Extra silicon rubber roller
- Air conditioner for control panel
- Other special accessories

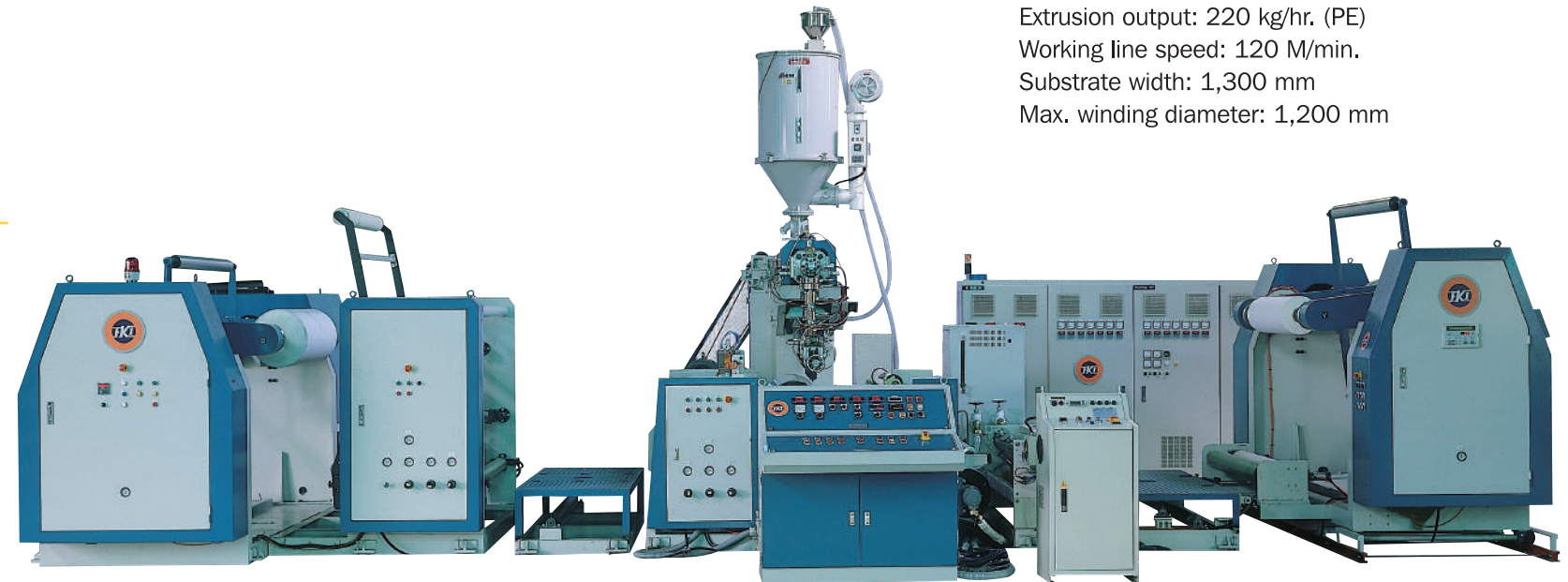
Model FK/LA-100-1500

Standard Parts:

- 100 mm extruder with 75 hp dc motor or ac vector inverter
- Electric heater for barrel heating
- Gear box imported from Europe with SKF thrust bearing
- Temperature controller of PID display with SSR output
- Melt pressure adjustable adaptor
- Tube type manual system screen changer
- Taiwan made EPC for unwinder
- Unwinder with powder brake drive
- Cooling roller of 450 mm diameter
- Unwinder and winder with manual cut
- Auto loader and hopper dryer

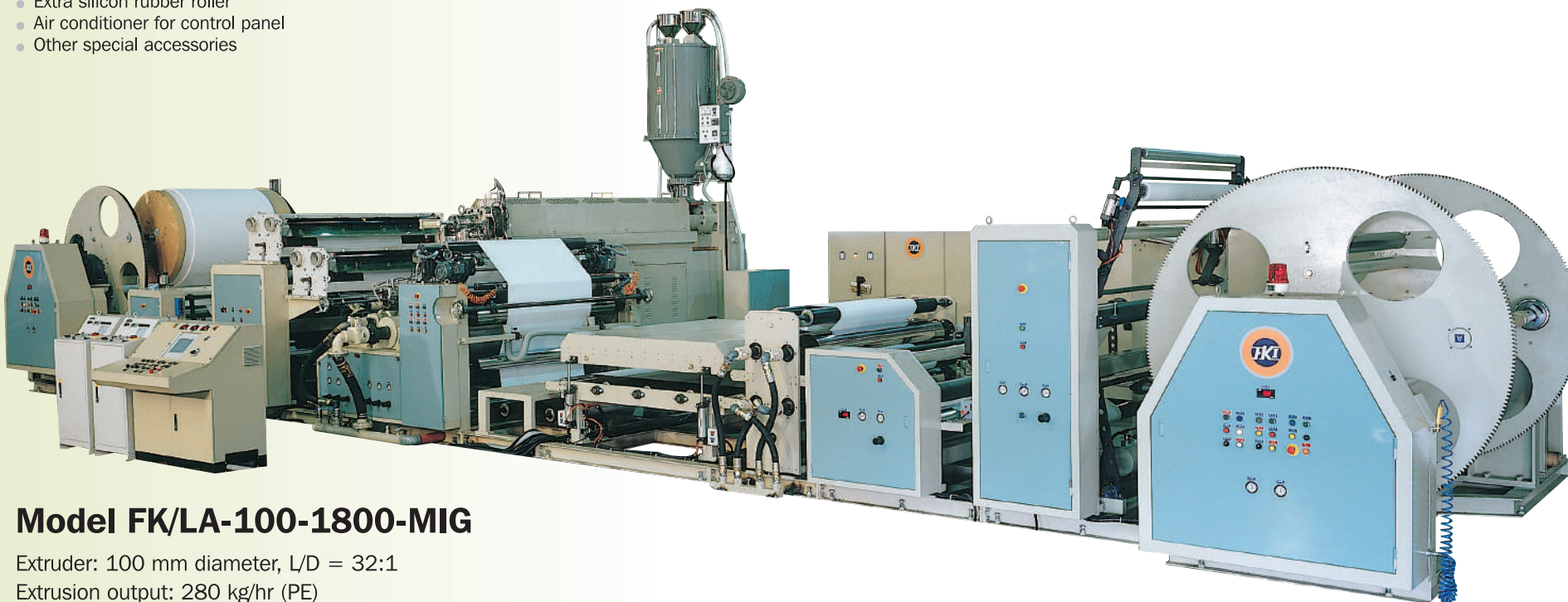
Optional Device:

- Hydraulic screen changer
- Melt pressure and thermo gauge of Dynisco brand
- Unwinder and winder with bottom auto cutter
- Extra cooling roller with mirror finished or semi mat surface treatment
- Extra silicon rubber roller
- Cooling roller with fast changeover joint
- Silicon rubber roller with fast changeover joint
- Pre-heating roller before lamination unit
- Corona surface treater
- Water chiller
- Total PLC control system with 10" touch screen color monitor
- Air conditioner for control panel
- Other special accessories



Model FK/LA-100-1500

Extruder: 100 mm diameter, L/D = 32:1
 Extrusion output: 220 kg/hr. (PE)
 Working line speed: 120 M/min.
 Substrate width: 1,300 mm
 Max. winding diameter: 1,200 mm



Model FK/LA-100-1800-MIG

Extruder: 100 mm diameter, L/D = 32:1
 Extrusion output: 280 kg/hr (PE)
 Working line speed: 200 M/min.
 Substrate width: 1,600 mm
 Max. winding diameter: 1,200 mm

SPECIFICATIONS:

MODEL	FK/LA-100-1500	FK/LA-100-1800-MIG	型號
Substrate	Paper, Non-worven, Worven Fabric		母材
Dimensions	Ø1200 mm x 1300 mm	Ø1200 mm x 1600 mm	母材規格
Lamination width	800 mm ~ 1300 mm	1100 mm ~ 1600 mm	淋膜寬度
Lamination thickness	0.012 mm ~ 0.06 mm	0.012 mm ~ 0.06 mm	淋膜厚度
Mechanical speed designed	120 m/min	200 m/min	機械設計速度
Extrusion output	180 - 220 kg/hr (PE), 150 - 180 kg/hr (PP)	250 - 320 kg/hr (PE), 180 - 250 kg/hr (PP)	押出量
Extruder	High base type 高壓式		押出機
Screw diameter	100 mm	100 mm	螺桿直徑
Screw L/D	32 : 1	32 : 1	螺桿長徑比
Barrel heating	67.5 kw	67.5kw	套筒加熱
Barrel cooling	0.375 kw x 5 zone	0.375 kw x 5 zone	套筒冷卻
Main drive	56 kw	75kw	主傳動馬力
T-die	Internal deckle bar 含內部寬度調整		T型模頭
Slit width	1600 mm	1900 mm	開口最大寬度
Working width	800 ~ 1300 mm	1100 ~ 1600 mm	淋膜寬度
Heating capacity	24 kw	28 kw	加熱容量
Heating zones	7	7	加熱溫度點
Unwinder	Auto turret type		放台
Substrate size	Ø1200 x 1300 mm	Ø1200 x 1600 mm	母材規格
Turret reverse motor	2.25 kw with reducer	3.75 kw with reducer	翻轉馬力
Drive motor	Powder brake	30 kw x 2 sets	傳動馬力
In-Feed Unit			導入裝置
Pinch roller	Ø225 x 1500 mm	Ø225 x 1800 mm	引取導輪
Rubber roller	Ø150 x 1500 mm	Ø150 x 1800 mm	引取膠輪
Drive motor	3.75 kw	5.6 kw	傳動馬力
Lamination unit	3 roller type		淋膜單元
Cooling roller	Ø450 x 1500 mm	Ø600 x 1800 mm	冷卻輪
Silicon rubber roller	Ø310 x 1500 mm	Ø260 x 1800 mm	矽利康輪
Back up roller	Ø150 x 1500 mm	Ø310 x 1800 mm	背壓輪
Drive motor	7.5 kw	11.25 kw	傳動馬力
Pre-heating roller	Ø350 x 1500 mm	Ø350 x 1800 mm	預熱輪
Out-Feed Unit			導出裝置
Pinch roller	Ø225 x 1500 mm	Ø225 x 1800 mm	引取導輪
Rubber roller	Ø150 x 1500 mm	Ø150 x 1800 mm	引取膠輪
Drive motor	3.75 kw	5.6 kw	傳動馬力
Winder			捲取裝置
Winding range	Ø1200 x 1300 mm	Ø1200 x 1600 mm	捲取規格
Turret reverse drive	2.25 kw with reducer	3.75 kw with reducer	翻轉馬力
Winding motor	18.75 kw x 2 sets	30 kw x 2 sets	捲取馬力
Air shaft	3", ID:76 mm, OD:89mm	3", ID:76 mm, OD:89mm	捲取空氣軸
Utilities			其他
Machine dimensions (L x W x H)	13.5 x 13 x 5 m	13.5 x 13 x 5 m	機械尺寸 (L x W x H)
Space required (L x W x H)	17.0 x 14 x 5 m	17.0 x 14 x 5 m	佔地空間 (L x W x H)
Total power consumption	250kw	250kw	總耗電量
Average power consumption	175 kw/hr	175 kw/hr	平均耗電量

• All specifications, design and characteristics shown above are subject to change without prior notice.