Perfect Solution for Digital Print on Demand Finishing Laminator

GMP PROTOPIC Series

PROTOPIC II-540 FUSER | Single Side Lamination & Various Sleeking(Fusing) Jobs
540 DUAL | Single Side & Embossing Lamination (One Touch Conversion)
540 DUPLEX | Single & Double Side Standard Lamination

PROTOPIC II-540 FUSER

PROTOPIC II-540 DUPLEX

PROTOPIC AUTO- 540 SLEEK
DUAL 540 SLEEK
DUPLEX 540 SLEEK

◄ *PROTOPIC AUTO-540 SLEEK*

PROTOPIC Series Roll Laminator with household power suppy (15 Amp.) for Single Side Lamination (Max. 15m/min.)

(PROTOPIC II-540 FUSER, II-540 DUAL, II-540 DUPLEX / PROTOPIC AUTO-540 SLEEK, DUAL 540 SLEEK, DUPLEX 540 SLEEK)

The World Leader in Laminating & Finishing Technologies

The World Leader in Laminating & Finishing Technologies **POD LAMINATOR**

PROTOPIC **Series**

◑ Key points of invention for PROTOPIC series

1. Main device

- High glossy chrome roller with excellent durability
- Laminating roller with high pressure by pneumatic cylinder for strong adhesion lamination
- Dual perforating (film & in-line)
- Double slitting knives
- Air compressor & low noise vacuum pump included
- Automatic gap adjustment for feeding paper
- Equipped rewinder for various application of sleeking jobs
- Easy to use with cantilever film shaft & bidirectional combi core adaptor

2. System control

- Whole functions adjustment with one master dial
- 13 Jobs memory function for automatic adjustment of temperature & Speed
- Super-precise temperature control by temperature sensor installed inside roller
- Film unwinder & rewinder tension adjustment

◑ Key features of PROTOPIC series

- Environmentally-friendly "thermalami" system
- Perfect lamination for whole kinds of substrates without bubble.
- 6 Patterns of embossing rollers (for DUAL version)
- Space-effective design for office & small area
- Automatic paper feeding gap control system and automatic burst cutting system
- Equipped the roller cooling system for perfect embossing effect (for DUAL version)
- Film tension adjustment device and decurling device are equipped.

◑ Application ragne of PROTOPIC series

- Poster, pop sign, menu
- Book cover
- Photo album & inner papers
- Photo-embossing lamination
- Name card
- Gift certificate
- Label
- New year's card / book
- Silver halide replacement system
- Digital media whole page sleeking - gloss, matt, hologram
- Digital media spot sleeking - gloss, hologram, metallic

◑ Jogging table : Optional

Automatic alignment for easy loading on pallet

- · Model name : Jogging Table-700
- · Max. paper size : 700mm x 700mm
- · Paper pile height : 130mm
- · Size (width x length x height) :
  795mm x 820mm x 410mm~545mm
- · Power requirement : AC220~240V

◑ Auto Stacker : Optional

Automatic aligning & stacking device for perfect alignment.
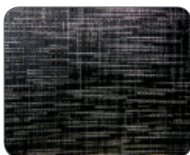No need for manually aligning & stacking on pallet

- · Model name : ST-50
- · Max. paper size : 540mm x 750mm
- · Paper pile height : 500mm
- · Size (width x length x height) :
  830mm x 1190mm x 950mm
- · Power requirement : AC220V~240V

◑ Basic patterns of embossing roller

- · Easy conversion to embossing lamination mode - 6 types of embossing rollers
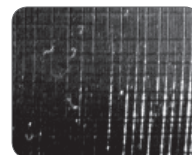
| Photo Texture | Fine Texture | Leather Texture | Sparkler Texture | Silky Texture | Linen Texture |

◑ features of GMP digital sleeking solutions

- · **Overcoming limitation**
  Create the synergy effect with mutual cooperation by overcoming the each print markets' limitation.

- · **Cost reduction/fast delivery**
  Cost reduction by the one-stop service instead of the several processing steps.

- · **Customer satisfaction**
  Various expressions possible by overcoming the existing limitation.
  Giving a variety of expressions makes it possible to produce the high-added-value product.

- · **Easy installation and operation**
- · **Low cost investment with extremely low production cost**

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POD LAMINATOR

The World Leader in Laminating & Finishing Technologies

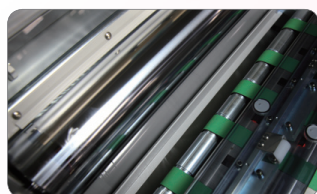# *PROTOPIC II-540* Series

540 FUSER
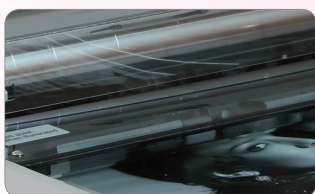## *540 DUAL*
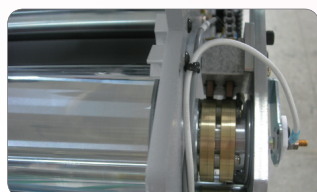## *540 DUPLEX*

◐ Key features of
PROTOPIC II-540 series

· Automatic feeding paper gap adjustment
· Whole functions adjustment with one master dial
· Slide type paper plate - easy to feed the papers
· Air compressor (with light weight & lower noise) also
  can be placed in the lami-table for films & consumables
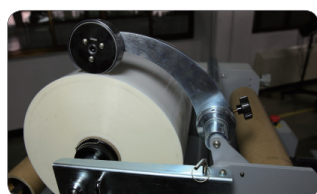
High glossy chrome roller

Automatic feeding gap adjustable device

Roller temperature sensor

Control panel

Film perforator

In-line perforator

Slide type paper plate

Cantilever type film shaft

▲ **Belt Feeder-35 (Optional)**

Max. 3,500 sheets / hour
(for 250mm length substrates) can be laminated with the
BELT FEEDER-35, then it is suitable for the further large
volume lamination jobs.

specification of each PROTOPIC II-540 series

Model name	PROTOPIC II-540 FUSER	PROTOPIC II-540 DUAL	PROTOPIC II-540 DUPLEX
Dimension (W*L*H, mm)	800*1580*670	800*1770*670	800*1580*670
Net weight (kgs)	175	185	250
Laminating speed (m/min.)	15	15	15(5)
Max. Paper size (W*L, mm)	540*800	540*800	540*800
Laminating films	· Single Side : POLYNEX, PERFEX, NYLONEX · Sleeking foil : GLOSS, MATT, HOLOGRAM, METALLIC	Single Side: POLYNEX, PERFEX, NYLONEX FILM	· Single Side: POLYNEX, PERFEX,NYLONEX · Double Side: POLYNEX, PERFEX, NYLONEX
Substrate weight (gram)	120~350	120~350	120~350
Front roller diameter	T: 100mm / B: 80mm	T: 100mm / B: 80mm	T: 100mm / B: 80mm
Rear roller diameter	55	55	55
Power requirement	AC 220~240V/12A	AC 220~240V/15A	AC 220~240V/24A(15)
Power consumption	2.8 kW	3.45 kW	5.6(3.45) kW
Warm-up time (min.)	7	7	7
Heating system	Infrared heater	Infrared heater	Infrared heater
Laminating temp. (℃)	MAX.150	MAX.150	MAX.150
Temp. Control	Jog Dial	Jog Dial	Jog Dial
Speed control	Jog Dial	Jog Dial	Jog Dial
Display for temp. & Speed	LCD Panel	LCD Panel	LCD Panel
Pressure control	Pneumatic cylinder	Pneumatic cylinder	Pneumatic cylinder
Film core	77mm (3")	77mm (3")	77mm (3")

PROTOPIC II-540 FUSER with Belt Feeder-35

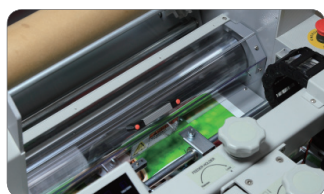# *PROTOPIC AUTO-540* Series

540 SLEEK
DUAL 540 SLEEK
DUPLEX 540 SLEEK
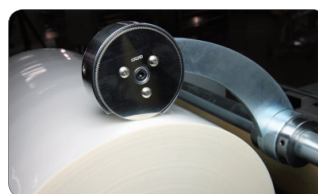
◑ Key features of PROTOPIC AUTO-540 series

- · Air compressor & low noise vacuum pump included
- · Stream feeder installed for auto paper-feeding
- · Emotional-touching control system
- · Perfect lamination without bubbles for all kinds of paper quality
- · Capacitive touch screen
- · High pressure of laminating roller for enhancing quality of laminating results
- · Storage of air compressor & vacuum pump in the cabinet
- · Well-streamlined function adjustment by use of capacitive type touch-screen
- · Function of various information for user-friendly convenience
- · One unified machine design including cabinet for easy storing air-compressor & vacuum pump
- · Household power supply (ac 220~240v/50~60hz-15amp) used for speed 15/min. By this, no need for extra installation work to use additional power supply
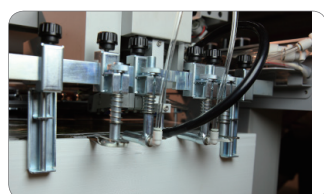- · Swivel type control panel

High glossy chrome plated roller

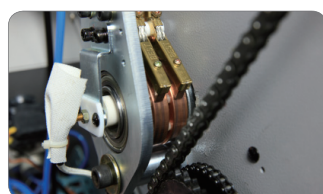Automatic gap adjustment for feeding paper

Film perforator

In-line perforator

Auto paper-feeding device
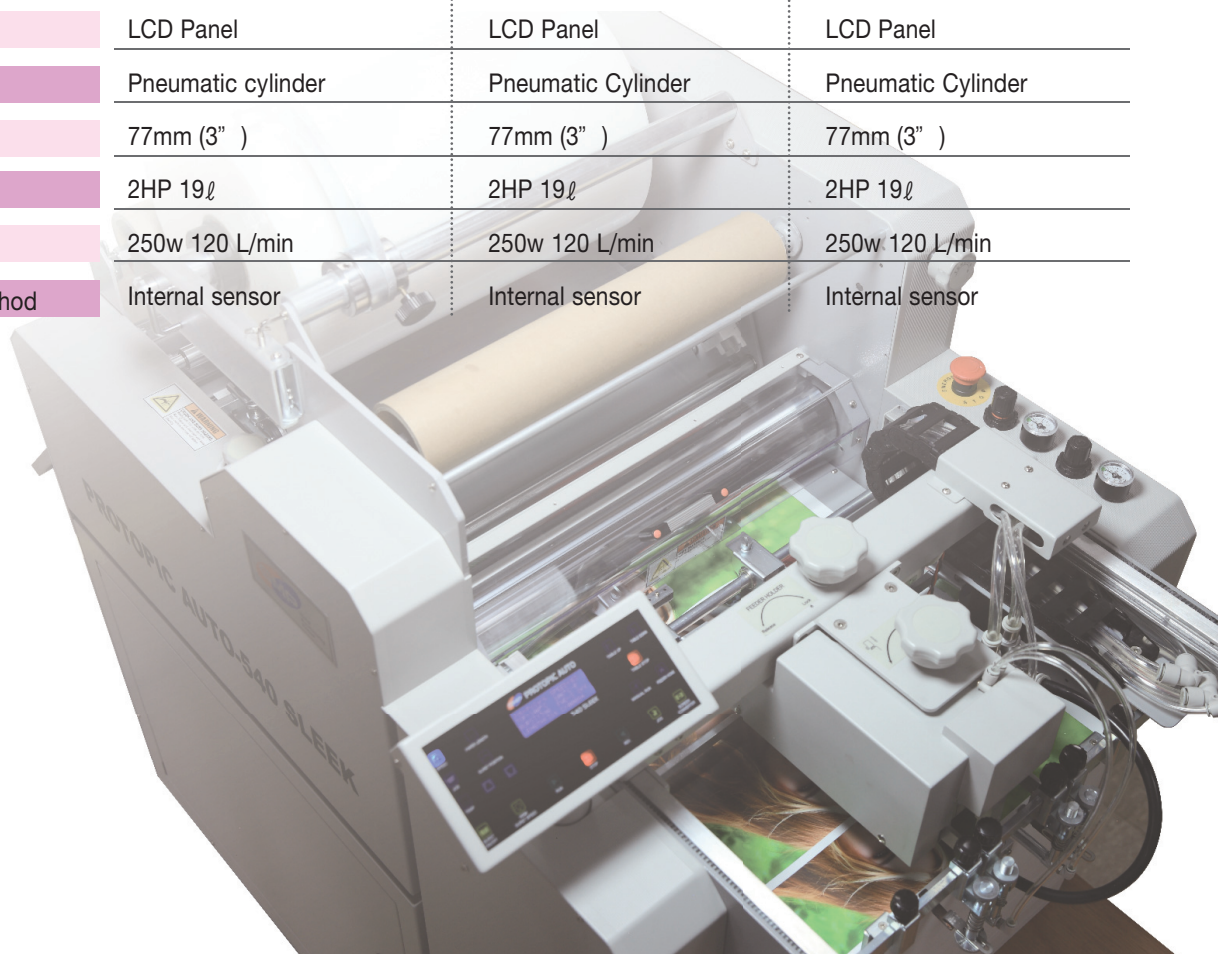
Built-in temperature sensor inside roller

Capacitive type touch-screen

Film unwinder

specification of each PROTOPIC AUTO-540 series

Model name	PROTOPIC AUTO - 540 SLEEK	PROTOPIC AUTO - DUAL 540 SLEEK	PROTOPIC AUTO - DUPLEX 540 SLEEK
Dimension (W*L*H, mm)	800*1675*1320	800*1865*1320	800*1675*1320
Laminating speed (m/min.)	15	15	15 (5)
Max. Paper size (W*L, mm)	540*750	540*750	540*750
paper pile height (mm)	350	350	350
Laminating films	· Single Side : POLYNEX, PERFEX, NYLONEX · Sleeking foil : GLOSS, MATT, HOLOGRAM,METALLIC	Single Side: POLYNEX PERFEX NYLONEX	· Single Side: POLYNEX, PERFEX, NYLONEX · Double Side: POLYNEX, PERFEX, NYLONEX
Substrate weight (gram)	120~350	120~350	120~350
Front roller diameter	T: 100mm / B: 80mm	T: 100mm / B: 80mm	T: 100mm / B: 80mm
Rear roller diameter	55	55	55
Power requirement	AC 220~240V/15A	AC 220~240V/15A	AC 220~240V/15A
Power consumption	3.45 kW	3.45 kW	5.6(3.45) kW
Warm-up time (min.)	7	7	7
Heating system	INFRARED HEATER	INFRARED HEATER	INFRARED HEATER
Laminating temp. (℃)	MAX.150	MAX.150	MAX.150
Temp. Control	Touch-screen	Touch-screen	Touch-screen
Speed control	Touch-screen	Touch-screen	Touch-screen
Display system	LCD Panel	LCD Panel	LCD Panel
Roller pressure	Pneumatic cylinder	Pneumatic Cylinder	Pneumatic Cylinder
Film core size	77mm (3")	77mm (3")	77mm (3")
Air compressor	2HP 19ℓ	2HP 19ℓ	2HP 19ℓ
Vacuum pump	250w 120 L/min	250w 120 L/min	250w 120 L/min
Temp. Sensing method	Internal sensor	Internal sensor	Internal sensor

◖ Thermal laminating films

POLYNEX Gloss	POLYNEX Matt	PERFEX	NYLONEX	SLEEKING FOIL	MICRONEX
[Bopp base]	[Bopp base]	[Pet base]	[Nylon base]	[Fusing foil]	
Gloss 25	Matt 28	Gloss high speed-29	Gloss-38	Gloss sleeking foil	Micronex Gloss
Gloss Emboright-40	Matt supermelt-43	Gloss-38	Gloss supermelt-40	Matt sleeking foil	Micronex Matt
Gloss supermelt-40	Matt UltraBond pt-43	Gloss UltraBond pt-38	Gloss UltraBond pt-40	Dual sleeking foil - Gloss and matt	Micronex Dura gloss
Gloss UltraBond pt-40	Matt Hard coat-43	Matt-32	Matt antiscuff-41		
	Matt hard coat supermelt-43	Matt-38	Matt antiscuff supermelt-44	Hologram sleeking foil - Spectrum - Milkyway - Crystal - Star - Mosaic - Sparkle - Hyper plaid	
	Silkfeel-36	Matt UltraBond pt-38	Matt antiscuff UltraBond pt-44		
	Silkfeel supermelt-43	Silver-25			
	Silkfeel UltraBond pt-43				
				Metallic sleeking foil -Gold -Silver	

◖ Comparison of each models

Name	PROTOPIC II-540 series			PROTOPIC AUTO-540 series		
	FUSER	DUAL	DUPLEX	540 SLEEK	DUAL 540 SLEEK	DUPLEX 540 SLEEK
Single side lamination	O	O	O	O	O	O
· Polynex 25~43mic	O	O	O	O	O	O
· Perfex (pet) 29~38mic	O	O	O	O	O	O
· Nylonex 38~44mic	O	O	O	O	O	O
Double side lamination	x	x	O	x	x	O
Embossing lamination	O embossing roller is required	O	x	O embossing roller is required	O	x
Spot sleeking	O	O	O	O	O	O
Hologram sleeking	O	O	O	O	O	O
Sleeking	O	O	O	O	O	O

◖ Recommendable films for each jobs

FILMS	Print		Sleeking (fusing)		Hologram sleeking	
	Indigo	Toner	Indigo	Toner	Indigo	Toner
POLYNEX MATT · Silkfeel-36 · Silkfeel supermelt-43 · Silkfeel ultrabond pt-43	O 165℃	O Oil Fusing	O 125℃	O 130℃	O 125℃	O 130℃

* Application of job, temp. & Speed in the above table might be changed.