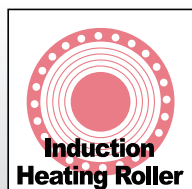


Patented

Laminating for Digital printing On-demand bookbinding

GMP *PIONEER-5500* Series

- ✓ POINEER-5500 G20N
- ✓ PIONEER-5500 G20R15
- ✓ PIONEER-5500 G20N-ST50
- ✓ PIONEER-5500 G20R15-ST50
- ✓ PIONEER-5500 DUAL G20N
- ✓ PIONEER-5500 DUAL G20R15
- ✓ PIONEER-5500 DUAL G20N-ST50
- ✓ PIONEER-5500 DUAL G20R15-ST50



G20 : GMP Stream Feeder 20

N : Nicking Knife

R15 : ø 150 Rotary Cutter

ST50 : Auto Staker 500x700mm

DUAL : Dual Rollers with Embossing Roller



Electric Induction Heating Roller System

High Pressure Laminating Roller by Pneumatic Cylinder

Precise Temperature Control (± 1)

Speedy Heating-Up(10min)

The World Leader in Laminating & Finishing Technologies

POD LAMINATOR

The World Leader in Laminating & Finishing Technologies

► KEY POINTS OF INVENTION FOR PIONEER-5500 Series

1. Main Device

- Heavy Duty Induction Heating Roller (215 dia.) for High Speed Lamination(40m/min) and for Accurate Temperature Control ($\pm 1^{\circ}\text{C}$)
- High Speed Stream Feeder (6,000sheet/HR)
- Film Slitting Knife and Rewinder
- Film Rewinder for Fusing
- Nicking Knife for Perfect Cutting(Standard)
- Selective Cutting Condition (Rotary or Nicking Lamination Roller and Knife)
- High Pressured Laminating Roller with Pneumatic Cylinder
- Accurate Temperature Control with Roller Surface Temp. Sensor
- Perfect Bursting with Pneumatic Cylinder

2. System Control

- Best Reliable & Durable by PLC and Servo Control System
- Touch Panel Display Control
- Servo Motor Drive for Main Drive, Feeder Head
- Induction Motor Drive for Bursting

3. Convenience

- Door for Easy Maintenance
- Compact Design
- High Volume Paper Loading Table(545mm)
- Easy Exchangable Roller
- Quick Warm-up time (10 mins.)



Nicking Knife



Film Perforator



Air Shaft



Stream Feeder



Rewinder



Touch Screen

► Jogging Table (Optional)



Automatically Jogs the finished output for easy pallet loading(Optional)

- Model : Jogging Table-700
- Out-put Height:130mm
- Dimensions(WxLxH) : 795x820x410mm
- Power Requirements : AC220~240V, 50~60Hz

► Auto Stacker (Optional)



Automatic stacking the finished output for easy pallet loading

- Model : ST-50
- Out-put Height : 500mm
- Dimensions(WxLxH) : 830x1190x950mm
- Power Requirements : AC220~240V, 50~60Hz

► FEATURES OF PIONEER-5500 Series

- 1) Environmental-Friendly "Thermalami" System
- 2) Perfect Lamination for whole kinds of substrates without bubble.
- 3) Easy to convert for Embossing lamination mode
- 6 patterns of Embossing Rollers (for PIONEER DUAL Series)
- 4) Space Effective Design
- 5) Equipped the Roller Cooling System for Perfect Embossing Effect
- 6) Film Tension Adjustment Device and Decurling Device are equipped.

► APPLICATION Of PIONEER-5500 Series

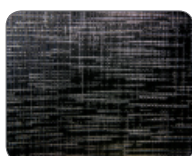
- Posters, Pop Signs, Menu
- Bookcovers
- Photo Album Covers & Inner Pages
- Photo Embossing Lamination
- Gift & Greetings Cards
- Name Card Lamination With Spot Fusing
- Anti Counterfeit Lamination
- Security Printing of Gift Certificate
- Labels
- Laminating for Security of Credit Cards

► BASIC PATTERNS OF EMBOSSED ROLLERS

Various Embossing Effect for High Valued Added Products



▲ Linen Texture



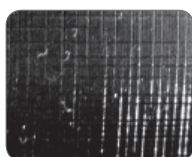
▲ Fine Texture



▲ Leather Texture



▲ Sparkler Texture



▲ Silky Texture



▲ Photo Texture



► THERMAL LAMINATING FILMS

POLYNEX Gloss	POLYNEX Matt	PERFEX	NYLONEX	SLEEKING FOIL	MICRO NEX
[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	PIONEER-5000	PIONEER-5000 DUAL
Single Side Lamination		
• POLYNEX (BOPP) 25~43mic	○	○
• PERFEX (PET) 29~38mic	○	○
• NYLONEX (NYLON) 38~44mic	○	○
Double Side Lamination	-	-
Embossing Lamination	○ (embossing roller is required)	○
Perfection (Gloss/Matt)	○	○
Spot Sleeking	○	○
Hologram Sleeking	○	○
Sleeking	○	○

► SPECIFICATION OF EACH PIONEER-5500 Series

Laminator Dimensions	1,300(W)*3,000(L)*1,340(H)mm	Max. Laminating Temperature	140
Max. Laminating Speed	40m/min	Temperature Control	PID Control
Max. Feeding Speed	6,000 sheet/hr	Operating System	PLC (Programmable Logic Controller)
Max. Sheet Format	500(W)*700(L)mm	Main Driving	2.2kw Induction Motor with Servo Driver
Min. Sheet Format	210(W)*250(L)mm	Feeder Driving	0.4kw Servo Motor with Servo Driver
Laminating Film	POLYNEX, NYLONEX, PERFEX	Nip Pressure	Pneumatic Cylinder
Substrate Weight	120~400g/m ²	Film Core	Air Shaft (3")
Feeder Loading Height	480mm	Cooling System	Air cooling with Blower
Power Requirements	AC 380~400V, 3N, 50/60Hz	Feeding	GMP Syncro Stream Feeder
Power Consumption	13 kw	Cutting	Burst Cutting with Nicking Knife and Perforator
Warm up Time	10mins	Weight	1,100kg
Heating System	Induction Heating System		

► RECOMMENDABLE FILMS FOR EACH JOBS

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

* Application of Job, Temp, & Speed in the above table might be changed.



RoHS



UL-WTDP, CB-TM



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