

diferro[®]
Calenders

Piece & Roll to Roll Transfer Printing Machine

MP SERIES





PRODUCT INFORMATION

Our latest “MP” series has been created for small to medium size businesses that are keen to produce more of their own products inhouse and minimise the need to outsource. Whilst mainly used for textile transfer printing, the MP Series can also be used for other heat transfer applications.



OPERATION TYPES

- Digital Paper Rolls to Pieces of Fabric
- Digital Paper Rolls to Rolls of Fabric
- Digital Paper Pieces to Pieces of Fabric

OTHER SCOPE OF USE

- Film Lamination
- Serigraphy Transfer Printing
- Offset Printing
- Stone Printing
- Flock Transfer

THE DRUM

The drum is made of ST44 drawn steel pipe and all standard models are finished with surface grinding. On request the drum surface can also be plated with either chrome or Teflon. Inside the drum is one single heating unit that consists of three pieces. The drum is filled with transfer heating oil that fills up 60% of the inner volume. The failsafe-switch mechanism helps balance the inner pressure, and will deactivate the machine should there be any issues regarding the gasses generated by heated oil so to avoid injury or damage. The heat sensor is placed on the surface of the drum, this enables more accurate readings and provides better print results. Maximum Working Temperature and Temperature Restrictions can be easily adjusted via the Touch-Screen Panel.

THE FELT BELT

All of our machines are equipped with 100% Nomex seamless industrial felt belts that are reinforced with Kevlar material in order to avoid stretching. The expected lifetime for the belt on this unit is between 3 & 5 years depending on use. In order to eliminate movement of the felt belt to either side the machine is built with an automated-felt centering mechanism. The felt tension and the felt centering system are both air-operated (Pneumatic). Should the compressor fail to supply the required air for the system, the machine halts and alerts the operator to prevent lasting damage to the belt.



TOUCH-SCREEN PANEL

- General control of the machine such as speed, temperature etc.
- Meter Counter
- Weekly Programming
- Auto- Cooling
- Touch-screen to Access various functions

MATERIAL INPUT / OUTPUT CONTROLS

Protection Paper

Input : Manually Adjusted Brake System
Output : Manually Adjusted Automatic Rewind

Digital Paper

Input : Manually Adjusted Brake System
Output : Manually Adjusted Automatic Rewind

Roll Fabric

Input : Manually Adjusted Fabric Tension System
Output : Manually Adjusted Automatic Rewind

Piece Fabric

Input : Manually laid on table
Output : Off the protection paper



TECHNICAL SPECIFICATIONS

Heating System	: Heat Transfer Oil
Max. Temperature	: 220°
Average Heating Time	: 80 min.
Average Cooling Time	: 150 min.
Power Supply	: 380 V – 3 Ph 50/60 Hz
Air Intake (bar)	: Min. 5 – Max. 8
Electrical System	: PLC Control
Felt Tension System	: Pneumatic
Felt Control System	: Automatic
Drive Speed Control	: AC Inverter
Paper Un-wind Re-wind	: Compressed Shaft
Weekly Programming	: Yes
Automatic Shut-Down	: Yes
Safety	: 4 Emergency Buttons – Safety Wire
Software Language	: English (Optional)
Warranty	: 2 years Mechanical, 1 year Electrical (User Fault Exempted)



OPTIONAL OPTIONS



- 1 Static Electricity Preventing Wire
- 2 Glass Table and Lightening
- 3 Ventilation Hood



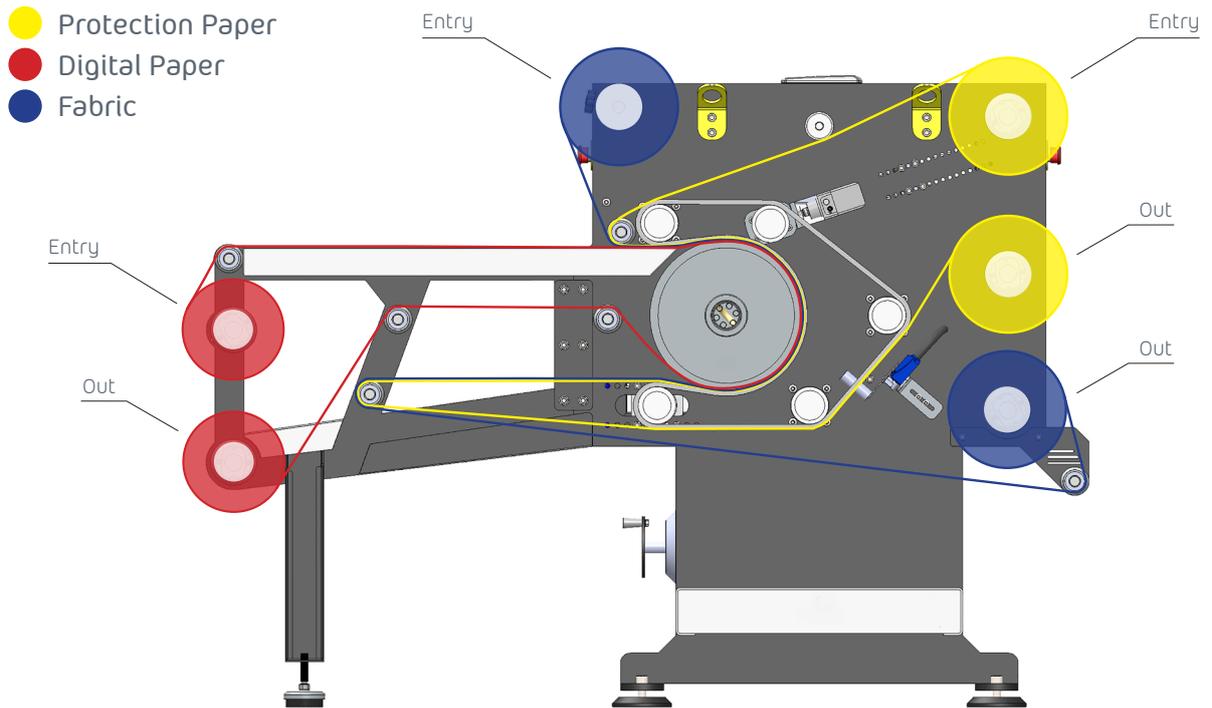
- 4 Remote Access Module
- 5 Air-Shaft
- 6 Chrome or Teflon Plated Drum
- 7 UPS Power Supply

MACHINE DIMENSIONS

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Machine	Drum Diameter		Drum Width		Maximum Working Width		Working Data			Maximum Current Input	Total Power	Average Energy Power	Drum Resistance Power	Drum Engine Power	Dimensions (Footprint with Table)	Net Weight		Dimensions of the Shipping Crate	
	mm	inch	mm	inch	mm	m/min	m/hour	m ² /hour	Amp.							Kw	Kw	Kw	Kw
MP-13B320C	320	12.6"	1300	51.2"	1240	2,10	126	156	22,8	15	9,75	13,5	0,75	220X180X130	750	245X130X155	825		
MP-17B320C			1700	66.9"	1640	2,10	126	207	30,4	20	13	18,5	0,75	260X180X130	1100	285X130X155	1210		
MP-19B320C			1900	74.8"	1840	2,10	126	232	38	25	16,25	23,5	0,75	280X180X130	1320	305X130X155	1450		
MP-22B320C			2200	85.6"	2140	2,10	126	270	45,6	30	19,5	28,5	0,75	310X180X130	1540	335X130X155	1695		

SUBLIMATION PROCESS



SCOPE OF APPLICATION



SCOPE OF APPLICATION





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