



MM SERIES

Roll to Roll Transfer Printing Machine

differro®
Calenders



PRODUCT INFORMATION

Our “MM” Series target small-scale textile companies that work with fabric rolls and obliged to work with less capital and less production costs. Although it is mainly for roll to roll printing experience, it can also be used for other heat transfer operations.



OPERATION TYPES

- Digital Paper Rolls to Rolls of Fabric

OTHER SCOPE OF USE

- Film Lamination
- Serigraphy Transfer 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 : Pneumatic Brake System

Output : Manually Adjusted Automatic Rewind

Digital Paper

Input : Pneumatic Brake System

Output : Manually Adjusted Automatic Rewind

Roll Fabric

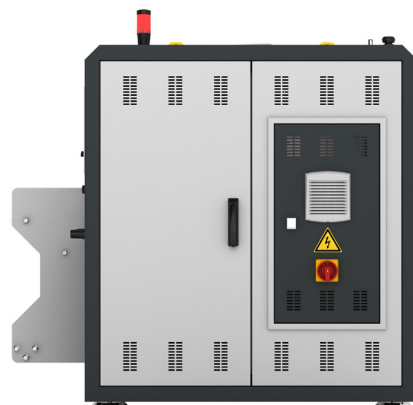
Input : Manually Adjusted Fabric Tension System

Output : Potency Controlled Double Roll Rewind



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)



MACHINE DIMENSIONS

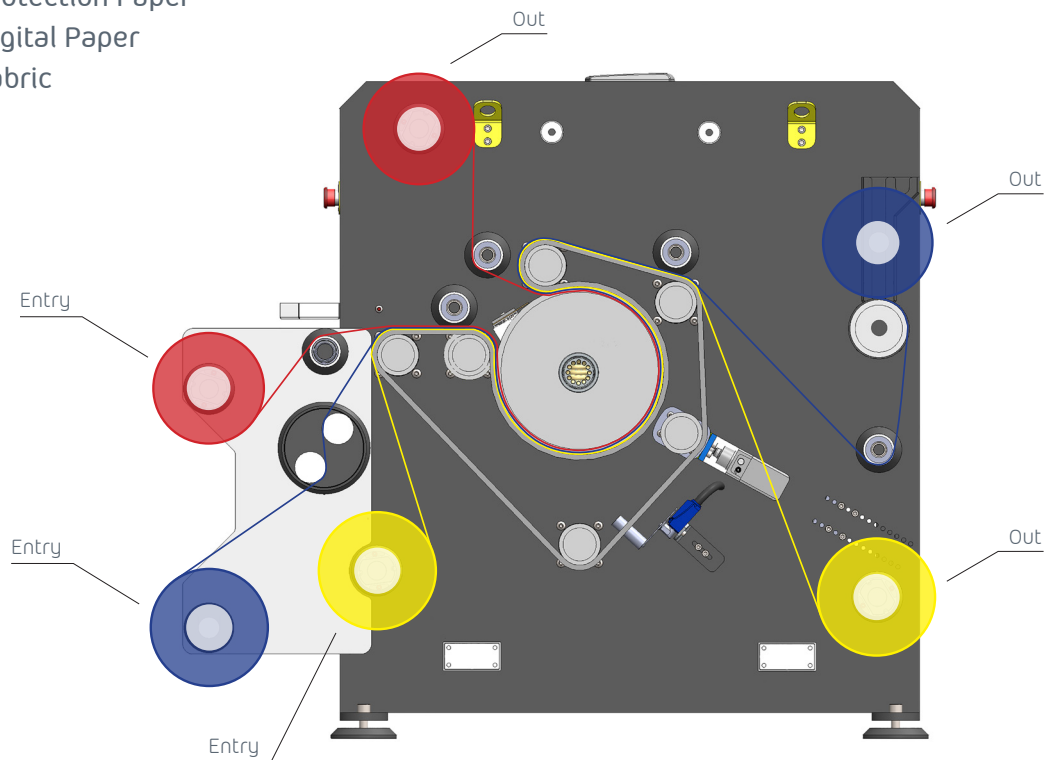
- | | |
|----------------------------------|---|
| 1 Fabric Straightener Rod | 6 Chrome or Teflon Plated Drum |
| 2 Static Preventing Wire | 7 UPS Power Supply |
| 3 Ventilation Hood | 8 External Roll Fabric Rewind Unit |
| 4 Remote Access Module | 9 Additional Digital Paper Roll |
| 5 Air-Shaft | |

MACHINE DIMENSIONS

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Machine	Drum Diameter		Drum Width		Maximum Working Width	Working Data			Maximum Current Input	Total Power	Average Energy Consumption	Drum Resistance Power	Drum Engine Power	Dimensions (Footprint with Table)	Net Weight	Dimensions of the Shipping Crate	
Code	mm	inch	mm	inch	mm	m/min	m/hour	m ² /hour	Amp.	Kw	Kw	Kw	Kw	Cm	Kg	Cm	Kg
MM-17B320C	320	12.6"	1700	66.9"	1600	4	240	384	53	20	13	18,5	0,75	265x140x125	1250	290x165x150	1380
MM-19B320C			1900	74.8"	1800	4	240	432	66	25	16,25	23,5	0,75	285x140x125	1500	310x165x150	1650
MM-22B320C			2200	85.6"	2100	4	240	504	79	30	19,5	28,5	1,1	315x140x125	1780	340x165x150	1960
MM-26B320C			2600	102.3"	2500	4	240	600	95	36	24	35	1,1	355x140x125	2820	380x165x150	3100
MM-33B320C			3300	129.9"	3200	4	240	768	124	47	30	45	1,5	425x140x125	3440	450x165x150	3790

SUBLIMATION PROCESS

- Protection Paper
- Digital Paper
- Fabric



SCOPE OF APPLICATION



SCOPE OF APPLICATION





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