

diferro[®]
Calenders



DR SERIES

Ribbon Transfer Printing Machine



PRODUCT INFORMATION

Our latest "DR" Series is the perfect option for the production of ribbons and striped fabrics. Able to produce Impeccable vibrant prints on to rubber, ribbon, grosgrain, belt lining and bed sideband amongst many other narrow tape width materials.

Areas of use include Home Textile, Advertisement Labelling, Under Clothing, Outerwear, Lanyards and multi-use decorative ribbon based applications.

OPERATION TYPES

- Digital Paper Rolls to Rolls of Fabric

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.

KEY FEATURES

- Shadow Preventing Paper Separator
- Fabric / Paper Scraper

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)



OPTIONAL OPTIONS

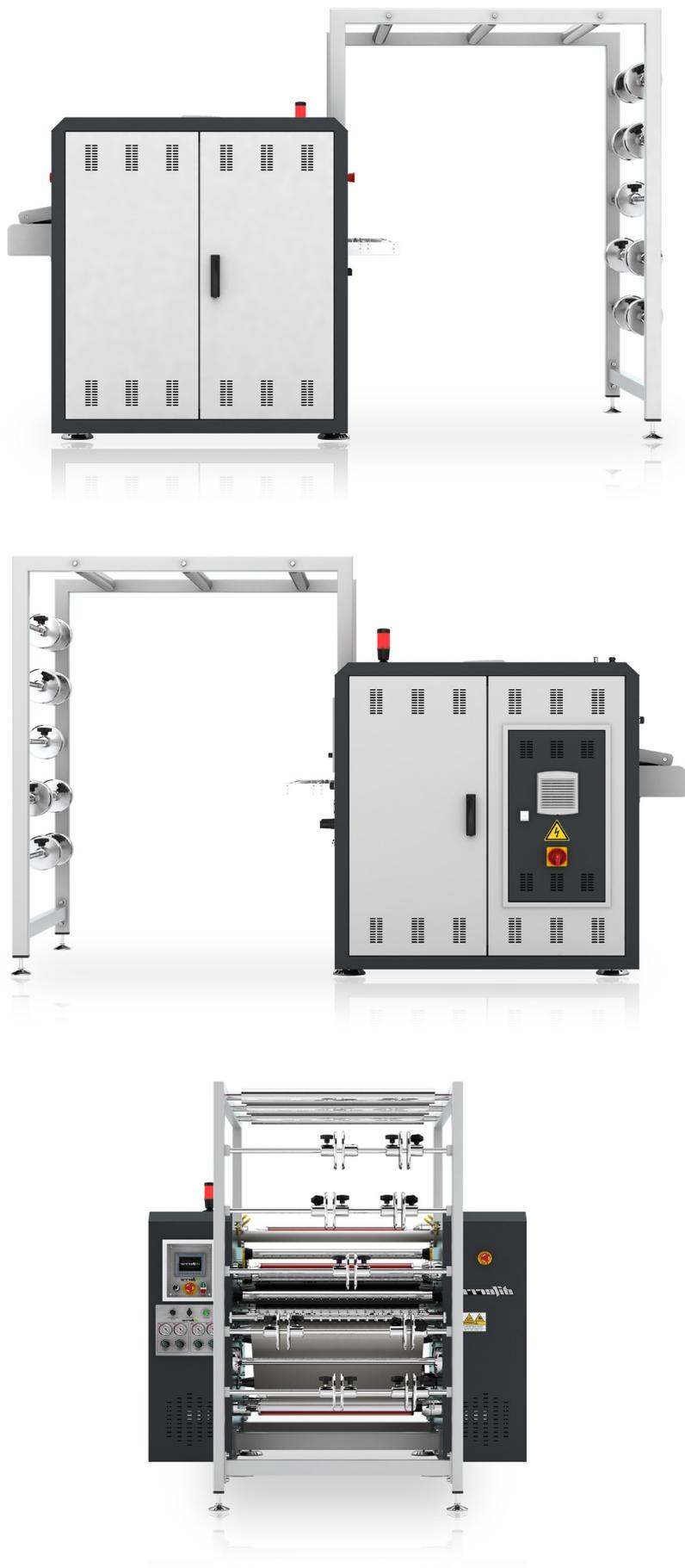
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|---|------------------------|---|------------------------------------|
| 1 | Static Preventing Wire | 4 | Automatic Rear Stripe Distribution |
| 2 | Remote Access Module | 5 | Chrome or Teflon Plated Drum |
| 3 | Air-Shaft | 6 | UPS Power Supply |

MACHINE DIMENSIONS

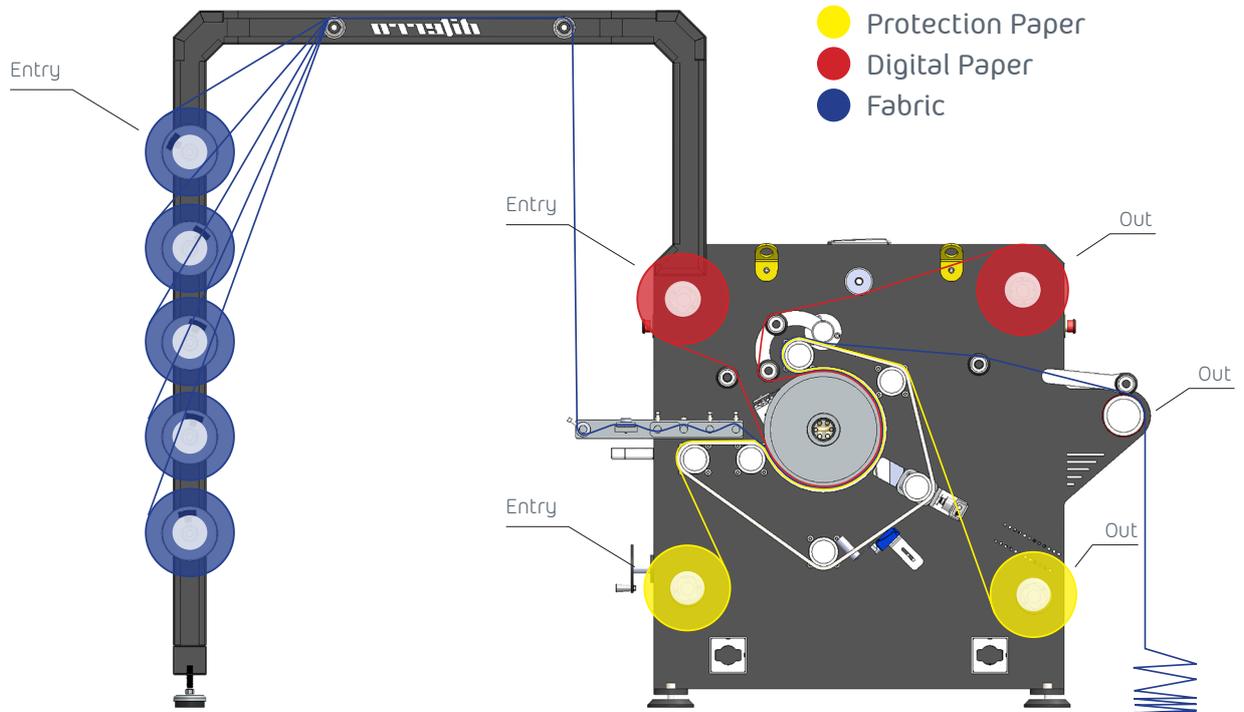
DR SERIES

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
DR-05B320C	320	12.6"	500	19.7"	440	4	240	106	10	6,5	4,225	5,5	0,75	145x255x185	620	170x185x210	690	
DR-07B320C			700	27.5"	640	4	240	154	14	9	5,85	8,0	0,75	165x255x186	770	190x185x210	850	

STANDARD AND CUSTOMIZED MACHINE SOLUTIONS



SUBLIMATION PROCESS



SCOPE OF APPLICATION





Diferro Makina San. ve Tic. Ltd. Şti.

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