

FE Flat Expander Crease Removing Roller

Features

- FE rollers are rubber-cord-type non-bowed and linear crease removing rollers
- Designed for removing creases from web materials such as fabrics, nonwovens, plastic films, paper and glass fibers
- Better expansion throughout full roller length is achieved since rubber slats slide motion is very light and smooth
- Designed to minimize mechanical wear on components for longer lifetime



Applications

- Nonwoven Industry:Film Industry:
- Winders, Slitters, Coaters
- Winders, Slitters, Printing Machines, Coaters, Vacuum Evaporators
- Glass Fiber Industry:
- Winders, Weaving Machines
- Paper Industry: Winders, Slitters, Coaters
 - Foil Industry: Cu/Al foil production plants

Specifications

Туре	Roller Dia. (mm)	Roller Length (mm)	Max. Line Speed (m/min) (*1)	Rubber Expansion (mm) (*2)	Roll Inclination Angle	Applicable Web	Environment	Rubber Material
FE-BB	100	150~1000	150~100	16		Fabric		
FE-BS	125	300~2000	250~150	20		Nonwoven	Dry (*3)	EPT
FE-BX	150	1000~3000	300~250	24	0° ~ 6°	Film	Max.	Silicone
FE-BM	200	2000~4500	450~350	28		Paper	operation temp. 80°C	Polyurethane
FE-BJ	250	2000~6000	500~350	30		Glass fiber		

(*1) Speed indicated corresponds to roller length.

(*2) Rubber expansion varies with web wrap angle.

(*3) When crease removing rollers for a wet environment are required, please contact us.



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Crease Removing Principle

Figure 1: At incoming point A, rubber cord is contracted by tightening adjusting bolt. At out-going point B, it is expanded by un-tightening adjusting bolt. As the roller rotates, the web wound on the roller at point C is spread through point D. This is how creases can be removed.



Characteristics of Available Materials

	EPT (Black)(*)	EPT (White)(*1)	Silicone	Polyurethane
Max. operation temperature	120°C (*2)	80°C	120°C (*2)	80°C
Residual strain tolerance	Good	Good	Excellent	Excellent
Wear resistance	Good	Fair	Fair	Excellent
Tensile strength	Good	Good	Fair	Excellent
Electrical conductivity	Excellent	Х	Х	Х
Oil resistance	Х	Х	Fair	Excellent
Water resistance	Excellent	Good	Fair	Х
Alkali resistance	Excellent	Excellent	Excellent	Х
Acid resistance	Excellent	Excellent	Х	Х
Ozone resistance	Good	Good	Good	Fair

(*1) Ethylene-propylene terpolymer is also called EDPM.

(*2) This is the heat resistance temperature of rubber code itself. Recommended to use FE rollers at 80°C or below if long life operation is required. In case of operation temperature over 80°C, please contact us.



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