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# FABRIC CENTERING AND SPREADING SYSTEM

**To eliminate :**

- Presence of operator on entry of machine
- Introduction of bow distortion due to cloth guider
- Difference in feel of fabric between center and selvedges due to rubbing effect of cloth guider
- Problem of frequent maintenance of cloth guiders

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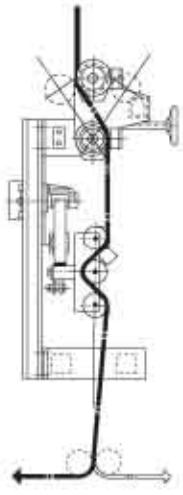
Web guiders with steering rollers and combined with full width scroll rollers assure crease-free centre-line guiding of textile webs.

As alternative, the requirements of certain processes are satisfied by guiding the web along the centre-line of the machine when the entry-span is sufficiently long.

The fabric edges are sensed at all widths within the range without any form of sensor follow-up. The fabric is therefore always centered reliably.



**MODEL FCD-III**

**MODEL FCD-II**

## FABRIC CENTERING AND SPREADING SYSTEM FINDS APPLICATION IN -

- Outlet of scutcher.
- Guiding inlet of stenter / mangle.
- Inlet of water extractor.
- Outlet of scouring & bleaching machine.
- Inlet to drying range machine.
- Open width printing machine.

## TECHNICAL DATA

- Full width scroll roll with individual drive with arrangement to adjust the surface contact of the fabric.
- Swivel-side roller made of SS/Ebonite/Aluminum having width as per specific requirement with cylinder, operated pneumatically, hydraulically, or electrically.
- The position of the web centre is detected by opto-electronics. The control unit transmits these signals to pneumatic/hydraulic or electric adjusting devices. The speed of the motor, hydraulic or pneumatic cylinder is adjusted in proportion to the amount of error.

## MODELS AVAILABLE

- **MODEL FCD-I**
  CENTERING SENSOR :
  WITH CONTROL OUTPUT :
  Suitable to synchronise with any make Fabric Centering Device with steering roll assembly operated hydraulically/ pneumatically/electrically for automatic operation.
- **MODEL FCD-II**
  Complete system with straight run roll assembly.
  Dimensions :
  W* + 500 X 1030 X 510 mm
- **MODEL FCD-III**
  Centering Device with positively driven DC decurling rolls.
  Dimensions :
  W* + 1000 X 1560 X 510 mm
- **MODEL FCD-IV**
  Fabric Centering with fabric crease removing system.
  Dimensions :
  W* + 1000 X 560 X 510 mm
  * Working width of fabric
- **MODEL FCD-V**
  System with slatted roller assembly with slatted angle for automatic removal of crease and centering of the fabric.

## SPECIAL FEATURES

- High correction capability and fast response through PI-control characteristic. When there are small web corrections small correcting actions (proportional control) influences the run of the web directly. In case of large web deviations, there is an additional swivel action (integral control) which generates a time-dependent correction of the web run.
- It automatically centers and expands the running web and opens its curled selvedges.
- Since no nipping action is utilized, it preserves the texture of web and there is no web escape problem.
- It provides accurate centering control even at high web running speed (150m/min. max).
- Eliminates manual labour and error totally.
- Improves the quality of the fabric and eliminates second grade production.
- Improves pinning and clipping action on stenter.
- Special three roll assembly supplied for knitted fabric.
- Improves working of Weft Straightening System.
- No wear and tear results in reliable and durable operation for years together.

**MODEL FCD-IV**

**MODEL FCD-V**

**For further details, contact**

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Since our policy is of continuous development and improvement, we reserve the right to supply product which may differ from those illustrated & described in this publication.


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