

**iECHO**

**SAMR**  
TECHNOLOGY

The automatic Edge Opening Device (EOD) has got the national invention patent which has created a new era of spreading, for both knitted and woven fabric.





iECHO Spreaders are tension free cloth unwinding system with automatic fabric relaxing combined with ease of operation and increase in production efficiency and spread quality. iECHO Spreaders aero sensitive design helps in avoiding wind disturbance caused due to the machine speed and its intelligent design demonstrates low noise and vibration. iECHO Spreader's power saving system combined with its computerised electronic pre-setting of spread length demonstrate industry 4.0 SMART manufacturing capabilities.

FEATURES

- iECHO Spreader Series ensures predictable and repeatable tension-free spreading of material.
- Ensures accurate and consistent spreading in length.
- Intelligently aligns material edges so parts can be nested closer to the ends and edges of material to optimize material utilization.
- Tension-free spreading ensures more accurate cut pieces and lower rejection rate in the sewing room.
- Automatic cutting device.
- Variable speed control.
- Stops automatically when no Fabric sensor is activated and automatically return to origin for fabric loading.
- Automatic fabric threading, increase productivity.
- For Elastic material, angle adjustable bar with curve design for wrinkle free spreading.
- Automatic Fabric Relaxing system ensures high quality spread for elastic material.
- Ply counter.
- Programmable lay length and end allowance settings.
- Operator-side safety device.
- Face-up, one way.
- Face-to-face (or zigzag).
- Flat-fold attachment.
- Smoothing roller.
- Remote emergency stop.
- Operator platform.
- Touch Screen Operator Panel.



TECHNICAL PARAMETERS

Voltage : 1 Phase , 220 V | Power : 1.5Kw | Cloth Diameter : 50cm

Model	AZS - 160	AZS - 190	AZS - 210	AZS - 240	Home Textile
Maximum Cloth Width	1600mm	1900mm	2100mm	2400mm	Customizable
Diameter Of Cloth Roll (max)	500mm				
Weight of Cloth Roll (Max)	80Kg / 120Kg				
Drive Speed (Max)	106m/min				
Lay Height (Max)	One - Way 230mm / Two - Way 160mm				
Power Supply	1P 220V / 50Hz 1kw				
Table Width	1830mm	2130mm	2330mm	2630mm	Customizable
Machine Dimension (LxWxH)	1900x2300x1250mm	1900x2600x1250mm	1900x2800x1250mm	1900x3100x1250mm	Customizable

AUTOMATIC EDGE OPENING DEVICE (EOD)

iECHO's patented EOD can perfectly resolve edge curling issues in knitted fabric.



SYNCHRO CONTROL SYSTEM (SCS)

iECHO's SCS system, a synchro motor will provide a voltage for conversion to torque through an amplifier and a servomotor. Control type synchro's are used in applications that require large torques or high accuracy such as follow-up links and error detectors in servo, automatic control systems (such as an autopilot system). In simpler terms, a Synchro Control System(SCS) is a system in which the transmitted signal controls a source of power which does the usable work. iECHO's spreading speed, fabric release and auxiliary devices like EOD , End Cutters are perfectly synchronised to perform TENSIOIN FREE SPREADING with perfect EDGE & END Alignment.



## AIR FLOATATION & CONVEYORIZED TABLE

iIMPACT / iECHO Table is available in both Conveyor & Air Flotation configuration. Our tables integrates with iECHO Cutters by synchronising fabric movement between the spreading table and the feeding end of the iECHO Cutter. Designed with Industrial High Grade Steel with anti-damping and vibration free built which provides stability at high spreading speed operation, ensuring higher productivity and lower cost of maintenance.

## INTEGRATED BUSBAR FEATURES

- **CONTINUOUS COPPER CONDUCTORS** : The flat joint ensures trouble free operation and exceptionally long brush life.
- **VOLTAGE DROP MINIMUM** : Even under extremely dusty, humid or even corrosive conditions voltage drop will be minimum.
- **UNLIMITED TABLE LENGTH** : Free expansion concept eliminates the difference in expansion of copper, thus long table lengths are possible.
- **SPEED WITH HOLDING FACTOR** : BUS BAR's are tested to withhold travel speeds up to 100 meters/minute.
- **SEALING STRIPS** : This option keeps dust and moisture away from conductors and protects the BUSBAR.

