

It takes a **pioneer** to take the **lead**



Our Range of Products

Yarn Conditioning System



Elgi's **Yarn Conditioning System** has given mills the quality advantage of enhancing production efficiency both at the knitting and weaving stages.

ELGI ARGUS Spark Diverter



ELGI ZANCANER Cone Packing Machine

ELGI ARGUS Metal Diverter



ELGI ROBOTS Bobbin Transport System

Overhead Traveling Cleaner



Elgi's **Overhead Traveling Cleaner** has found wide acceptance and is today seen as the standard by which all overhead cleaners are judged.

So when it comes to yarn quality, you can expect Elgi to deliver. In fact, as a pioneer in the field, taking the lead is certainly a given.



ELGI ELECTRIC AND INDUSTRIES LIMITED

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Elgi Electric is a renowned name in the textile Industry. Today, with over three decades of experience, the company has been providing engineering solutions for the textile industry. The company has always been in the forefront of technological advancements and has designed and developed products to suit the futuristic requirements of the industry.

The Company pioneered the concept of Overhead Cleaners in India. Technical collaborations with world leaders in Germany have helped reinforce the image of Elgi Electric as a quality conscious manufacturer. An ISO certification further reinforces the company's commitment to quality. The company is a part of Rs.500 crore Sara Elgi group of India.

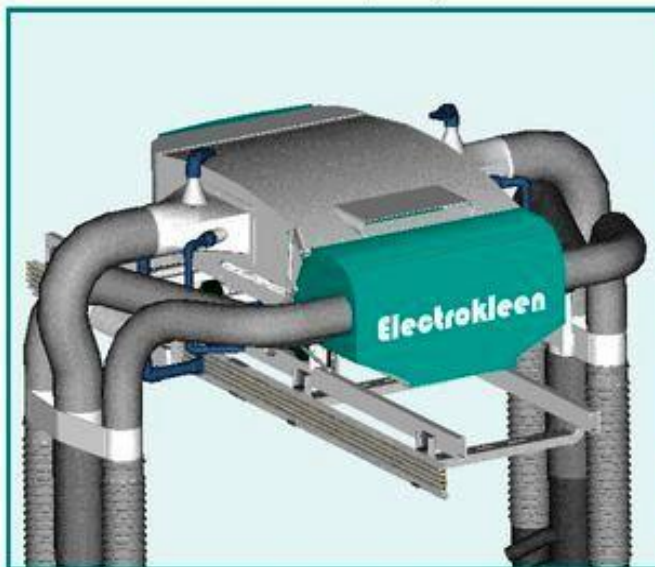
The company's products are a testimony to its technological superiority. Small wonder then, over 50 million spindles (50,000 OHTC's) spread across the length and breadth within the country and outside, are spinning high quality yarn with Elgi Electric OHTC's. The company offers customized solutions to every application. Be it spinning or weaving, straight or curved path, it's range has just the right product for every application.

Apart from this, the company's portfolio of products comprises of Yarn Conditioning Systems, Metal and Spark Diversion Systems, Bobbin Transporting System, Cone Packing Machine, Centralized Vacuum Cleaning Systems, Energy Saving Motors, etc. just to name a few.

No wonder, Elgi Electric's customers have that extra competitive edge.

Electrokleen

Automatic Overhead Cleaner for Spinning Frames



Features :

- ▶ New Design involutes with Uniform Air Flow results in higher performance
- ▶ Energy efficient motor results in substantial power saving
- ▶ Latest version of PLC Controller for Machine Operation
- ▶ Orifice device makes it possible to adjust blowing power
- ▶ Push button on both sides for START, STOP and REVERSAL of the unit
- ▶ New Design Power Duct provides longer life to brushes
- ▶ Adjustable blowing attachments to accommodate extra creel / transportation system
- ▶ Highly versatile - can be used for frames in straight, U or Circular Path
- ▶ State of Art Aero Dynamic Body design with elegant aesthetics
- ▶ Low Noise level & maintenance free

Optional :

- | | |
|---------------------------------------|----------------------------------|
| ▶ Auto Parking facility | ▶ 1.5 Kw motor for energy saving |
| ▶ Obstacle Auto Reversing | ▶ ROCOS suction arrangement |
| ▶ Infrared obstacle sensor | ▶ Wharve cleaning system |
| ▶ Centralised Waste collection system | ▶ Elite Blowing System |

NUGEN-W (WEAVING)

Automatic Overhead Traveling Cleaner for Weaving



Features :

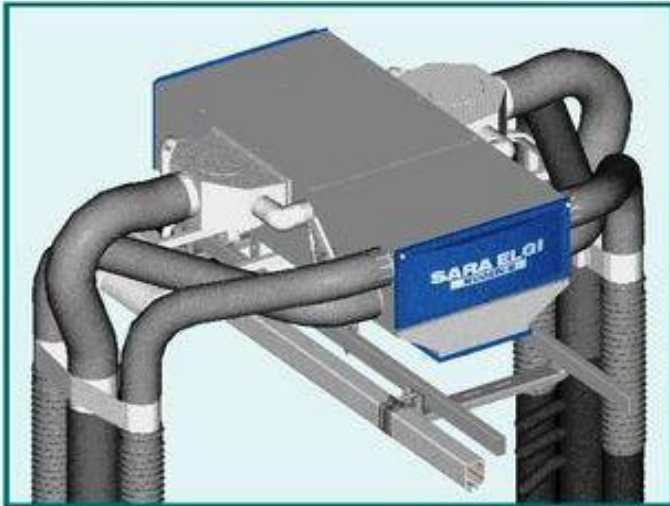
- ▶ Ideally suited for looms with mixed humidification systems
- ▶ Specially designed nozzles for cleaning various parts of the loom
- ▶ Can be enabled to skip non-operational looms in curved or straight line path
- ▶ Complete operational status of the electronic system is indicated for easy maintenance and trouble shooting
- ▶ Push button on both sides for START, STOP and REVERSAL of the unit
- ▶ Enclosed safety contact rails for primary current supply ensures total safety
- ▶ Highly versatile - can be used for looms in curved or straight - line path

Optional :

- ▶ Centralised Waste Collection System
- ▶ Auto Filter Cleaning arrangement
- ▶ Obstacle Sensor (Infra Red)
- ▶ Mixed humidification support pillar

NUGEN

Automatic Overhead Cleaner for Spinning Frames



Features :

- ▶ Energy efficient motor results in substantial power saving
- ▶ Latest version of PLC Controller for Machine Operation
- ▶ Push button on both sides for START, STOP and REVERSAL of the unit
- ▶ Enclosed power duct rails for primary current supply ensures total safety
- ▶ Orifice device makes it possible to adjust blowing power
- ▶ Highly versatile - can be used for frames in straight, U or Circular Path
- ▶ Powder Coated body for long life
- ▶ Low Noise level & maintenance free

Optional :

- ▶ Auto Parking facility
- ▶ Obstacle Auto Reversing
- ▶ Infrared obstacle sensor
- ▶ Centralised Waste collection system
- ▶ 1.5 Kw motor for energy saving
- ▶ ROCOS suction arrangement
- ▶ Wharve cleaning system
- ▶ Elite Blowing System

Superkleen

Automatic Overhead Cleaner Belt Drive for Spinning



Features :

- ▶ Orifice device makes it possible to adjust blowing power
- ▶ Less mechanical parts, hence requires minimum maintenance
- ▶ Powder coated parts for long life
- ▶ Auto parking facility available
- ▶ Individual fluffs collection system is possible
- ▶ Swivel arrangement at both side attachments to increase the life
- ▶ New opening system for air reversal

Optional :

- ▶ Auto Parking facility
- ▶ Intermittent reversal
- ▶ Centralised Waste collection system

Technical Specification

DESCRIPTION	ELEKTROKLEEN	NUGEN		SUPERKLEEN	NUGEN-W (Weaving)
Fan motor (Energy Efficient motor)	2.2KW, 415v, 3Ph, 50Hz, 2 pole	2.2KW, 415v, 3Ph, 50Hz, 2 pole	Optional 1.5KW, 415v, 3Ph, 50Hz, for Energy Saving	2.2KW, 415v, 3Ph, 50Hz, 2 pole	4KW, 415v, 3Ph, 50Hz, 2 pole
Fan Size	Dia 420 mm	Dia 420 mm	Dia 400 mm	Dia 355 mm	Dia 465 mm
Drive motor	150W,415v, 3Ph, 50Hz, 4 pole,	150W,415v, 3Ph, 50Hz, 4 pole,	150W,415v, 3Ph, 50Hz, 4 pole,	N/A	150W,415v, 3Ph, 50Hz, 4 pole,
Traveling Speed	12/16 mtrs./Min.	12/16 mtrs./Min.	12/16 mtrs./Min.	12 mtrs./Min.	12 mtrs./Min.
Air Volume	2500 M ³ /hr.	2300 M ³ /hr.	1950 M ³ /hr.	2200 M ³ /hr.	3300 M ³ /hr.
Suction Capacity (Total Pressure)	2400 Pascals	2200 Pascals	1900 Pascals	2000 Pascals	2600 Pascals
Power Consumption (AMPS)	3.40	3.40	2.60	3.10	6.00
No of Suction hoses.	4 x 100mm Dia	4 x 100mm Dia		4 x 100mm Dia	4 x 100mm Dia
No of Blowing hoses.	2 x 125mm Dia	2 x 125mm Dia		2 x 125mm Dia	14 x 75mm Dia
Filter Size	0.14 Sq.m	0.14 Sq.m		0.16 Sq.m	0.14 Sq.m
Machine Operation	PLC controlled	PLC controlled		Automatic	PLC controlled
No of Push Button Controls	3	3	3	N/A	3
Blowing attachments	Adjustable	Fixed	Fixed	Adjustable	Adjustable
Traveling Path	Straight line & Curved	Straight line & Curved		Straight line only	Straight line & Curved

Note : Specifications are subject to change with out prior notice due to continuous development



GERMAN DESIGN PROFIX YARN CONDITIONING SYSTEM (YCS) incorporates latest features, world class performance standards and safety features. It is ideal for treating all kinds of yarn – cotton, cotton mercerized, Rayon, Viscose, Blended, Wool, silk, Polyester and Acrylic in cop, cone & hank forms.

SALIENT FEATURES:

- ▶ Equipped with advanced PLC controller, up to 8 sets of various program can be stored. Incorporated with user friendly display / control panel with interfacing facility.
- ▶ Chamber is made of corrosion resistant high quality stainless steel and insulated externally with mineral wool for energy saving.
- ▶ Well proven automatic platform arrangement makes loading and unloading easier. A special slipping clutch is provided for safety.
- ▶ Specially manufactured Silicon rubber seal with "Suck Back" arrangement improves the seal life.
- ▶ Single Stage mono block water pump equipped with cavitation protection.
- ▶ Water level sensor interfaced with PLC controller facilitates automatic feeding of water and no need for a separate pump.
- ▶ In built with international safety features, such as PLC controlled Valve to release excess pressure, thermostat protection on heating coil and motors etc.

ADVANTAGE OF YARN CONDITIONING:

SPINNING MILLS : Increase in single yarn elongation and strength, constant co efficient of friction better hairiness value and free from electrostatic charges apart from weight gain.

WEAVING MILLS : Improves fabric softness, less fly generation and good size pick up in sizing.

KNITTING PLANT : Increased productivity due to less unwinding tension, fewer needle breakages and better performance in cloth formation.

SPECIAL ENERGY SAVING FEATURES:

- ▶ ELGI PROFIX comes with unique "Energy saver unit" (German Technology) ▶ Saves electricity upto Rs. 100 per batch (up to Rs. 3 lakhs per annum).
- ▶ A clean separate steam chamber without water bath ensures contamination and fungus free yarns.
- ▶ Up to 95% vaccumisation ensures uniform and maximum moisture gain.
- ▶ Low temperature Yarn conditioning from 46°C and heat setting upto 120°C is possible.
- ▶ Conventional design YCS can not provide the above benefits.

ELGI also manufactures conventional type " SUPER GAIN" model YCS without " Energy saver unit ".

The customer can choose between PROFIX and SUPER GAIN models.

Technical Specification

DESCRIPTION	PROFIX 1600	PROFIX 1250	PROFIX 1000	PROFIX 750	PROFIX 500
Capacity*	1,500 kgs/Batch	1,250 kgs/Batch	1,000 kgs/Batch	750 kgs/Batch	500 kgs/Batch
Production	36 Tons/Day	30 Tons/Day	24 Tons/Day	18 Tons/Day	12 Tons/Day
No Of Trolley Per Batch	6	5	4	3	2
Main Vessel Length	6360 MM	5560 MM	4760 MM	3960 MM	3160 MM
Main Vessel Diameter	2000MM	2000MM	2000MM	2000MM	2000MM
Material Feeding	Automatic	Automatic	Automatic	Automatic	Automatic
Energy Form	Electrical/Steam/Dual Heating	Electrical/Steam/Dual Heating	Electrical/Steam/Dual Heating	Electrical/Steam/Dual Heating	Electrical/Steam/Dual Heating
Energy Source	Separate Energy Saver Unit	Separate Energy Saver Unit	Separate Energy Saver Unit	Separate Energy Saver Unit	Separate Energy Saver Unit
Operating Temperature	Up to 120°C	Up to 120°C	Up to 120°C	Up to 120°C	Up to 120°C
Operating Pressure Range	(+1) bar to (-1) bar	(+1) bar to (-1) bar	(+1) bar to (-1) bar	(+1) bar to (-1) bar	(+1) bar to (-1) bar
Water Requirement	40 Litres/Batch for steam 480 Litres for Vacuum Pump which can be re-circulated	33 Litres/Batch for steam 400 Litres for Vacuum Pump which can be re-circulated	25 Litres/Batch for steam 320 Litres for Vacuum Pump which can be re-circulated	20 Litres/Batch for steam 260 Litres for Vacuum Pump which can be re-circulated	15 Litres/Batch for steam 230 Litres for Vacuum Pump which can be re-circulated
Power Consumption **	28 - 30 kwHR / Batch	25 - 27 kwHR / Batch	22 - 24 kwHR / Batch	18 - 20 kwHR / Batch	16 - 18 kwHR / Batch
Machine Operation	PLC Controlled	PLC Controlled	PLC Controlled	PLC Controlled	PLC Controlled
Heater Capacity	144 KW	144 KW	120 KW	96 KW	72 KW
Total Load	157 KW	157 KW	133 KW	109 KW	85 KW
SUPERGAIN Model	SG 1500	SG 1250	SG 1000	SG 750	SG 500
Heater Load	180 KW	180 KW	144 KW	120 KW	90 KW
Over All Load	193 KW	193 KW	157 KW	133 KW	103 KW

* Depends upon cone diameter, weight, cycle, etc. for Electrical Heating
** Depends upon the process temp, Water Temp, Holding time, cycle, etc.

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