



# GLI-CLEAN





**Lakshmi Precision Tools Limited (LPT)** is an ISO 9001, ISO 14001, OHSAS 18001 and 5s Certified company established in 1983. Headquartered in Coimbatore, India, the city known for textile machinery and manufacturing; LPT is associated with **Lakshmi Machine Works Ltd (LMW)**, a world leader in textile machinery.

From inception, LPT has built renown in precision manufacturing of engineering & Medical components. Apart from this, LPT is a leading manufacturer of Speed Frame Flyers, Semi- Automatic Ring Frame Doffers, critical textile machinery components and its sub-assemblies.

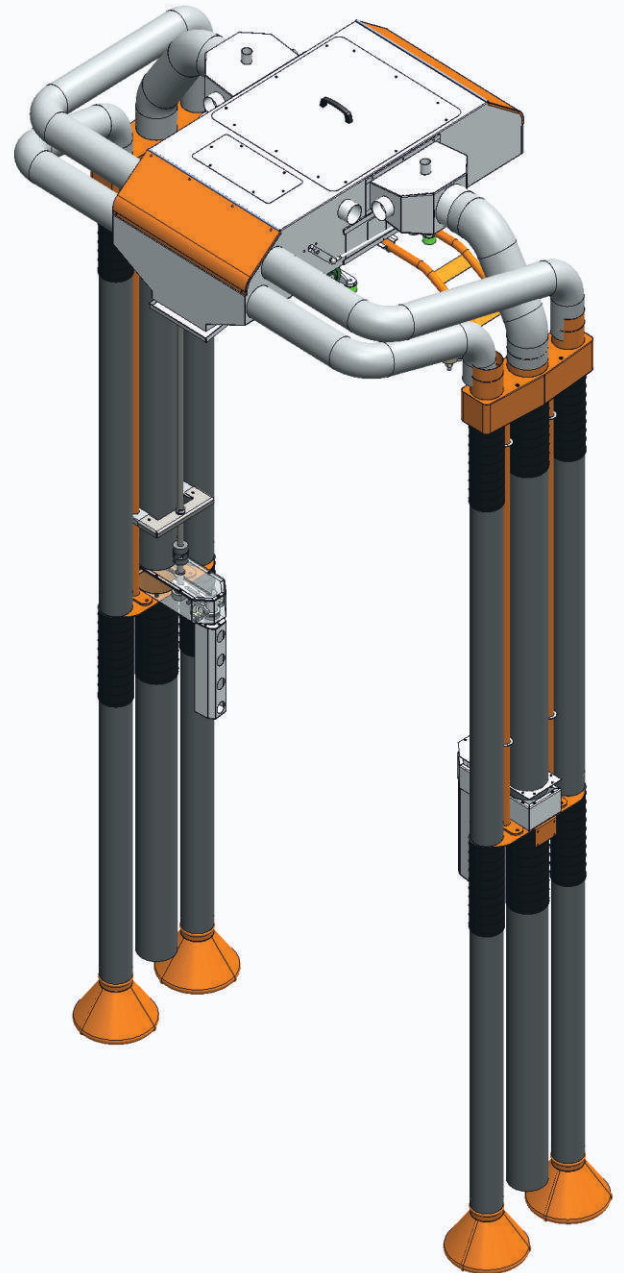
LPT **GLI-CLEAN**, a new-generation Over Head Travelling Cleaner has a range of models, specially adapted to the requirements of the spinning and weaving industry. Designed with our constant drive for technological innovation and efficiency, **GLI-CLEAN** offers customized solutions to clean critical areas in various machines like Ring Frame, Speed Frame, Automatic cone winder, TFO, Assembly winders, Doubling, Weaving, Warping, etc.

LPT **GLI-CLEAN** is suitable for both individual machines as well as series configurations. This superior product ensures frequent gliding and cleaning with effective blowing and suction systems to ensure your machines are always clean - and negates the need to stop the production line to allow manual cleaning.

**GLI-CLEAN** communicates with an Auto Doffing machine through non-contact free sensors and travels to a parking position before doffing begins.

**GLI-CLEAN** controls the waste from the drafting system through a cleaning nozzle. The travelling units serve a group of machines and whenever one machine stops due to slubbing or maintenance, the fan motor stops immediately. The drive motor ensures the travelling unit reach a parking position. Once the machine resumes, the fan motor is re-activated for the cleaning.

**GLI-CLEAN** is technically sturdy, robust and packed with special features.



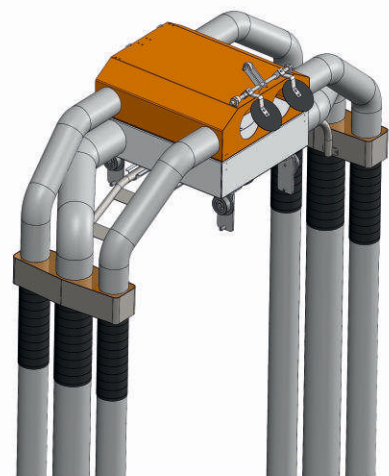
## Salient Features

- Stable Twin Track system with specially treated steel.
- Standard 3 phase motor with 1.5 kw / 2.2 kw capacity.
- Splash lubricated Gear unit.
- Option modules Programmable logic control system.
- Easily washable & detachable type micro filter screen.
- Primary current supply through enclosed safety contact rail.
- Non-contact reversal system.
- Designed to Suit for BTS, Link coner, Auto coner & Compact spinning systems.
- Suitable for straight and curved track system.
- Uniform blowing and suction provided at flyer side of the Speed frame.
- Single blowing and single suction hoses up to the floor level.
- Nozzles can be provided in sliver side for Ceiling and sliver cleaning.
- Special blowing attachment for different model speed frames.



## Optional Features

- Centralized Waste collection and disposal system
- Swivel arrangement of the suction nozzle to clean the drafting area.
- Optic obstacle sensor control systems
- Auto parking system
- Warve cleaning system







**LPT GLI-CLEAN Belt Drive Model** has a light-weight chamber as the fan motor is designed to be stationary at the track end. The light-weight chamber delivers superior efficiency including:

- Higher blowing and suction performance.

- Higher blowing and suction performance
- Less maintenance
- Machine's maximum length covered
- Suitable for self discharge system
- Less power consumption

### **LPT GLI-CLEAN Weaving Model**

This model has been designed with in-depth experience, trials and R&D for an almost-perfect systems for weaving mills. Yarn and Warp are increasingly stressed with significantly higher running speeds. This leads to a considerable increase in abrasion and a dramatic accumulation of dust and fly in the weaving shed. Our product, equipped with fan motors of 4 kW of installed performance, and a superior nozzle efficiency, has the ability to reach what may be described as inaccessible places.

### **The advantages are:**

- Decreasing thread breakage
- Less accumulation of fly on the fabrics
- Increase in Productivity due to less maintenance
- Lower expenditure for repairs and maintenance.
- Large surface fine filters ensure constant efficiency
- Flexible nozzle arrangement

### **Salient Features**

- No direct electrical supply to the cleaner and fan stop.
- Automatic clockout of Spinning and Cone winding in Link systems.
- Standard 3 phase motor with 1.5 kw capacity
- Park command activated by the Limit switch control.
- Simple modular construction
- Lower power consumption and easy maintenance





## Technical Specification

PARAMETERS	GLI-CLEAN B2	GLI-CLEAN P3	GLI-CLEAN P4
Fan Motor, kW	1.5, 3Φ, 415 V	2.2, 3Φ, 415 V	4, 3Φ, 415 V
Drive Motor, kW	-	0.15, 3Φ, 415 V	0.15, 3Φ, 415 V
Traveling Speed, m/min	12	8/12/16	12/16
Air Volume, m 3 / hr	2350	2550	3350
Suction Pressure, mm Wg	220	240	300
Suction Hoses, Nos.	4 x Ø100 mm	4 x Ø100 mm	4 x Ø100 mm
Blowing Hoses, Nos.	2 x Ø125 mm	2 x Ø125 mm	16 x Ø75 mm
Filter Area, m 2	0.22	0.15	0.15
No. of push button controls	-	3	3
Nozzles, mm	Ø8 - Ø35	Ø10 - Ø30	Ø75
No. of Nozzles, Nos.	8 - 16	10-16	12-16
Stopping, Discharging & Reverse operation	Mechanical control	Mechanical/Electronic controlled	
Traveling Path	Straight line	Straight line / Curved / Circular	
Waste collection	Manual/CWCS		
Blowing attachments	Adjustable		



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