



Textile Ring Spinning Pneumafils, Common Suction Pipe Conversion, Stationary Filter, Power Saving Impellers...



500 Satisfied Textile Spinners in South India with
5000 plus Installations....



SRI ASHWIN INDUSTRIES
GOIMBATORE



Sri Ashwin Industries established in 2006 is specialized in manufacturing and supplying of Pneumafil products as retrofit to Long Ring Spinning Frames in the Textile Industry.

The Pneumafil Products includes

- ✓ Pneumafil Stationary Filter
- ✓ Pneumafil Common Suction Pipe Conversion
- ✓ Pneumafil Energy Efficient Impellers
- ✓ Pneumafil Suction Pipe
- ✓ Pneumafil Electrical Motor
- ✓ Aluminium Duct
- ✓ Pneumafil Aluminium Diffusers
- ✓ Pneumafil Chamber Box

All these products are contributing to effective and efficient **“Waste Collection”**, thus making the **Clean Environment** around the Ring Spring Machines as well as **saving considerable electrical energy**.

In addition the increased suction minimizes Top Roller / Bottom Roller lapping with considerable reduction in working, manpower saving, labor cost.

Equally spindle speed increases the existing speed is not causing lapping, thus higher productivity is assured with small investment and few hour modification installation. The payback period is less than 6 months and all these products are 100% performing guaranteed.

Ashwin has developed a modification to the entire rotary filter box to a innovative waste collection system called **“Stationary Filter Box Waste Collection”**. Which are well accepted by **Indian Textile Industry**.

In fact within 10 years Ashwin Industries has supplied more than 5000 such installations in 500 Textile Mills in India and all of them are highly satisfied.

Our Strengths

- | | |
|---|---------------------------------|
| ✓ Price Competitiveness | Effective after sales - service |
| ✓ Stringent Quality Norms | Manufacturing up gradation |
| ✓ Performance Repeatability and reliability | Customer Focused |
| ✓ Strict adherence to delivery | Social Commitments |
| Schedule and logistics | Environment Safety |
| ✓ Strict adherence to delivery. | |

Manufacturing & Quality

High precision accuracy is giving top priority in our production process. We find pride in meeting the most stringent tolerances. We continuously innovate and improve the products towards customers satisfaction.

STATIONARY FILTER BOX



Existing OEM Ring Spinning Machines are fitted with Rotary Filter Piston arrangement in the Pneumafil cleaning system. The Rotary filter is always having trouble like frequent non rotation of filter due to heavy waste accumulation (lapping) and failure of piston movement. This results frequent stoppage of Ring frame to clean the accumulated waste and screen changing from the Rotary Filter Box. This also requires compressed air as power to rotate.

To overcome this problem existing rotary filter with piston arrangement and the box will be replaced as "Retrofit" with a stationary filter fitted inside the waste box..The waste collected in this waste pneumafil box can be simply removed manually by opening the side glass doors. Operator can view the accumulated waste by looking into the glassed doors manually clean the waste.



ADVANTAGE OF STATIONARY FILTER OVER ROTARY FILTER

- ✓ Maintenance free
- ✓ Complete elimination of Piston movement
- ✓ No air supply required for cleaning as in Rotary Filter
- ✓ No bearings, rubber gaskets, No change of filters
- ✓ Enhanced suction pressure
- ✓ Less suction leakage
- ✓ No more sudden stoppage of machine

STATIONARY FILTER MEANS

....NO POWER

....NO AIR

....NO MAINTENANCE

....NO PISTON ARRANGEMENTS

COMMON PNEUMAFIL SUCTION PIPE

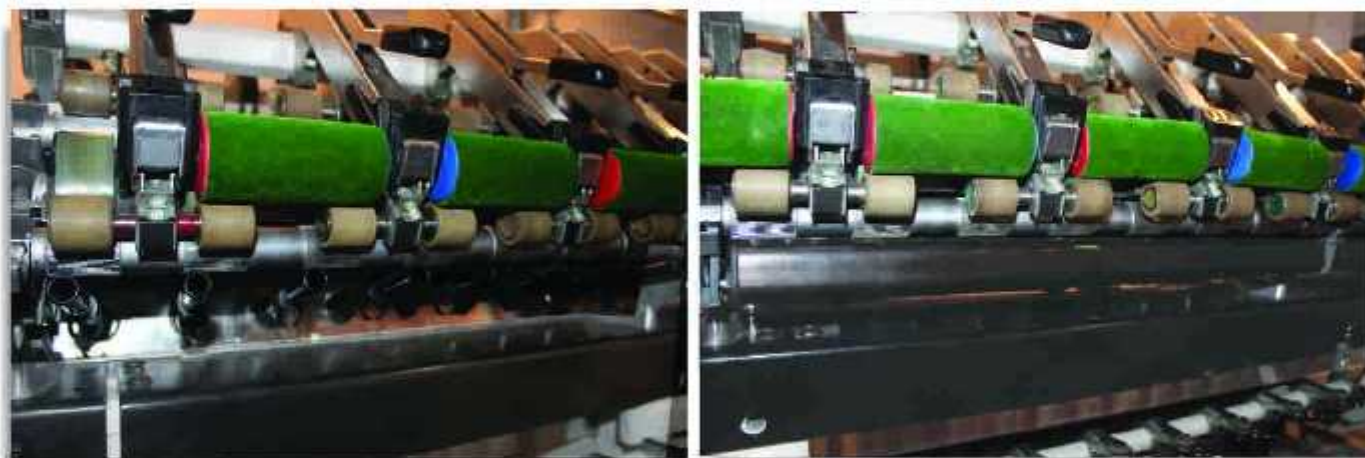


It is a new way to improve suction in the Ring Spinning to collect the waste ends breaks and dust. Existing individual suction tubes joining with the suction duct cause leakage of suction load, thus the efficiency of suction is reduced constantly. This creates frequent lapping on rollers either on Top / Bottom resulting too many broken threads joining efforts needed by the operations is a chronic issue in ring frame products efficiency in textile mills.

Instead of number of suction tubes with too many openings, when common suction tube is installed, the effective suction is increased by 40% which resulting considerable reduction in lapping between 60% - 80% as all the web broken ends are effectively sucked by common suction pipe.

This provides comfort work nature for the operators thus reasonable reduction is assured manpower. The pneumafil pipes are designed for easy installation and removal with spring locking action. The real value added benefit is on power consumption with saving of power by 20% - 25%.

All these modification investment cost is bare minimum with assured **payback period of less than 6months** and thereafter for the next 10 years power cost reduction is fixed.



Individual Pneumafil Tube



Common Pneumafil Pipe

COMMON PNEUMAFIL SUCTION PIPE



Ashwin is manufacturing common suction pipe for every kind of OEM machine for short, medium and long frame also. For non standard suction pipe can be developed as per customer requirement.

ENERGY EFFICIENT PNEUMAFIL FANS



Ashwin has developed modified impellers over OEM impellers. By modifying impellers leaf angle these impellers performance is considerably increased in suction pressure (maximum 10%) and also the power saving by 10%.

We have retained the material and quality of construction same as OEM impellers.

ALUMINIUM DUCT



Ashwin is manufacturing as replacement to the OEM's aluminium duct and the quality and construction of material are same as OEM duct.

PNEUMAFIL ACCESSORIES AND SPARES



To meet the maintenance of Ashwin made pneumafil equipment, Ashwin has made in house stock of fixing metal brackets, closing washer, end plugs, rubber socket etc., which are readily available for quick delivery.

TYPICAL COMPARISON OF ASHWIN MODIFIED PNEUMAFIL ARRANGEMENTS OVER OEM SPECIFICATION

Machine Make : Reputed
 No. of Spindles : 1008 spindles
 Pneumafil Motor : 5.5 kw
 Pneumafil Impeller : ø 490 mm

SPINDLE SECTION	OEM SPECIFICATION	AFTER MODIFICATION	AFTER MODIFICATION	AFTER MODIFICATION
	490 mm ø fan	490 mm ø fan	490 mm ø fan	460 mm ø fan
	Individual Pipe	Individual Pipe	"Assvin" Common Pipe	"Assvin" Common Pipe
	Rotary Filter System	Stationery Filter	Stationery Filter	Stationery Filter
Off End mm of H₂O	115	130	195	120
Middle End mm of H₂O	65	70	150	100
Gear End mm of H₂O	48	50	135	90

POWER SAVING REPORT - ELECTRICAL

BEFORE MODIFICATION	AFTER MODIFICATION	AFTER MODIFICATION	AFTER MODIFICATION
4.5 kw/hr	4.4 kw/hr	4.1 kw/hr	2.7 kw/hr

Power saving : 4.5 kw / hr - 2.7 kw / hr = 1.8 kw / hr
This mean saving of 1000 units / month (approx).

High Performance.... Delivered!!!



Manufactured by:



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