

## Success story of TeraSpin spindles with “Smart Yarn Catcher (SYC)” at Arunachala Gounder Textile Mills

### Background

Arunachala Gounder Textile Mills (AGT Mills) has multiple spinning units with a total installed capacity of 50,000+ spindles & 950 vortex air-jet spinning drums. They manufacture approx. 1500 tons of high quality yarn such as 100% viscose ring spun, compact & vortex yarn, and 100% modal yarn monthly. With a focus on consistent growth, they have continuously invested in new products and capacity expansion. Their product range today includes fibre, yarn and fabrics.

### Challenges

Arunachala Gounder already had ring frames with auto-doffers, but to further improve their spinning productivity, were looking for a solution that could reduce the hard waste and maintenance time without any speed reduction. Post careful diligence, they decided to choose one set of spindles from the competition and another set of spindles from TeraSpin with its patented **Smart Yarn Catcher (SYC)** device for a comparative performance evaluation.

### Result

After a series of studies done to evaluate the performance of yarn catchers, the customer was delighted to find that the TeraSpin spindles with **SYC** is outperforming their expectations as well as the other set of spindles they had purchased.

Spindle make	Raw material	Yarn count	Number of turns on the device	Max. spindle speed	Startup breaks %	Cleaning cycle of SYC device as per mill's standard (no. of days)	Yarn accumulation at the end of the standard cleaning cycle
TeraSpin HF-100 spindle with SYC	Viscose	Ne 30's	1.5	20,000	1.4	15 days	Nil
Competition spindle with Yarn Catching Device	Viscose	Ne 30's	1.5	20,000	2.0	15 days	Nil

The notable benefits of TeraSpin spindles equipped with Smart Yarn Catcher (SYC), as evident in the metrics above, are:

- Very low start-up end breaks
- ZERO hard waste - no residual yarn accumulation at the end of every doff, which results in
  - Reduced cleaning labour costs
  - Reduced maintenance weariness