

2014

Microspin crafted yarn unit





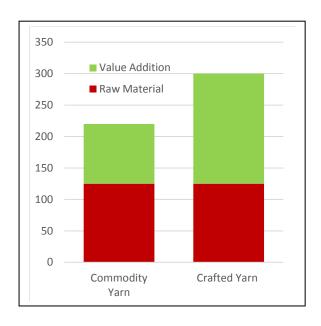
www.microspin.co.in
Microspin Machine Works (P) Ltd
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Is it khadi? Is it linen? Is it silk-blend?

Microspin Crafted Yarn™ is much sought after for its unique and distinctive features that lead to end-products that are highly valued in the market. Compared to commodity yarn, crafted yarn commands a premium in the market.

This unique and rich quality is thanks to the patent-pending technology employed by Microspin.

The technology is readily amenable to backward integration (ginning, farming) and forward integration (dyeing, weaving, textile products) at an affordable scale.



Endorsements

Leading brands and buying houses have successfully launched a range of fabrics and garments made from Microspin crafted-yarn in global markets. Below is feedback from some of them:

Wow! The look of linen with the feel of cotton.

The Microspin fabric is very innovative and very rich in look. The characteristic aspect of the yarn with slubs and neps gives the fabric an ethnic and vintage look.

...an excellent collection which suits our Japanese brands... very unique and Indian feel which no other region produces! ...adding much to the premium look... a good drape too.



End-to-end Support

Microspin supports the yarn producing units with a range of services from launch-stage to sustaining profitable operations. These include:

- Developing DPR (Detailed Project Report) specific to each project
- Supply of all machinery, equipment and accessories
- Build-Operate-Transfer model including training, operations and marketing-support
- SOP (Standard Operating Procedures) for all processes critical to profitability
- Support in forward integration to make fabrics and apparel

Overview of Profitability

Rs./Kg			Per year		
Raw material	121		Gross Production (Kg)	86400	
Wages	21				
Power	23		Gross Profit (Rs. L)	104	
Pkg & Cons	15		Overheads	16	
COST	180		EBITDA	88	
Sale Price	300		Investment	212	
Contribution	120		EBITDA/Investment	42%	

Project cost break-up

Rs. L	
Machinery & equipment	185
(incl taxes, installation)	
Misc. Fixed Assets	12
Pre-op exp, margin money	15
Investment	212







Technical Specs

General Specs

Input Productivity
Cotton (loose-lint or baled) 80 Kg-yarn/8-hr

Staple length: 28+ mm preferred

Output Floor Space

20s to 40s Ne yarn 75' x 80' OR 150' x 40'

Machine Specs

Integrated Blow-card (Two nos) Ring Frame

Sliver hank: 0.12 to 0.15 Ne No. of spindles: 1080

Delivery speed: 25m/min Spindle speed: upto 15,000rpm

Draw Frame (Breaker + Finisher) Ring dia: 38/42mm

Single delivery Lift: 7"

Output sliver hank: 0.12 to 0.15 Ne Pneumafil: available

Delivery speed: 100m/min Drafting system: spring-loaded

Input: upto 8 slivers Speed control: Variable-frequency drive

TPI: 22 to 29

Draft: 6 to 9.9

Flyer Frame Hank reeler (160-pegs) OR

Cone winder (48-drum)

No. of spindles: 48 Bale opener

Spindle speed: upto 750 rpm Overhead Travelling Cleaner (OhTC)

Flyer: 6" closed type Power

TPI: upto 2 Three Phase 415V
Draft: 7 to 9.9 Connected Load: 60 HP



About Microspin

Bobbin size: 12"

Microspin is a private limited company founded in 2011, based on prior research conducted under Fractal Foundation – an R&D institution. This innovative technology is patent-pending in India and the US, and was awarded the prestigious "Innovation for India Award" in 2012. (Other awardees included social initiatives like Akshaya Patra; companies like Red Bus and Indigo Airlines; and public initiatives like Aadhaar). Microspin is incubated by IIT Madras' RTBI and is a business partner of NSDC (National Skills Development Corporation), to promote skill-development through its innovative technology.