

Producing fancy yarns on ring frames

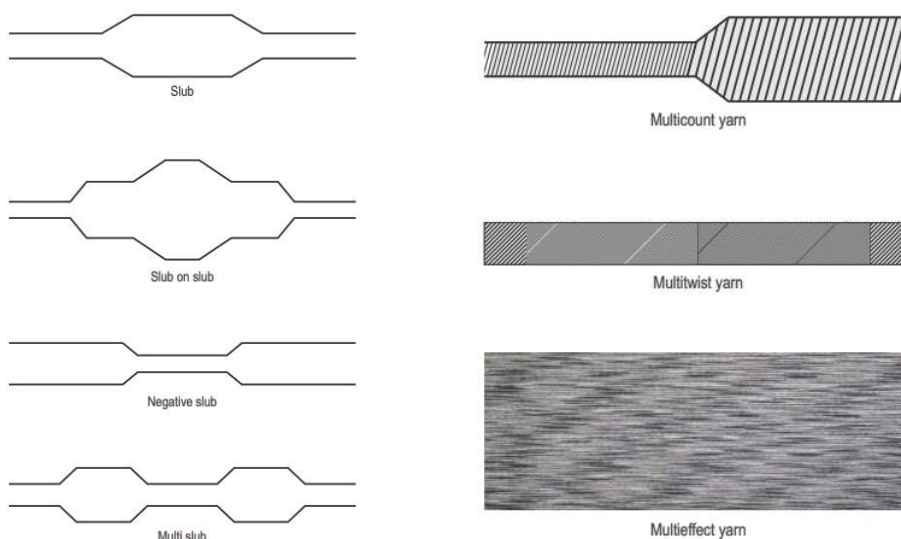
Fancy yarns have wide ranging applications in apparel. They are designed with specific visual and textural characteristics and today are almost invariably used to create fashion fabrics such as outerwear, upholstery, or knitwear. In the recent past, fancy yarns have gained significant importance amongst textile manufacturers due to increased consumer demand on the one hand and developments that have led to ease of production with minimal cost addition on the other.



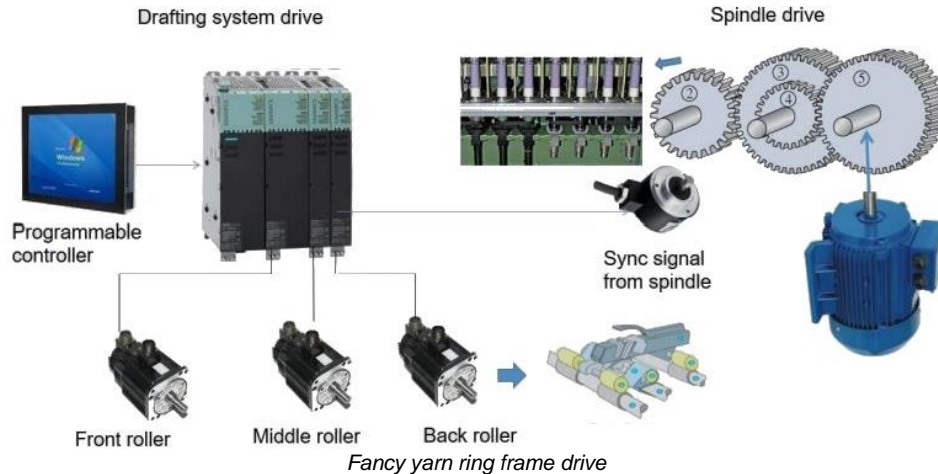
Fancy yarn

The FancySpin solution for manufacturing slub yarn

FancySpin is a unique fancy yarn slub system designed to add special effects to yarn, enabling customers to create various kinds of fancy yarn such as slub, slub over slub, multicount and multitwist yarns.



The FancySpin system can be easily integrated into any make or type of ring frame to produce fancy yarn. The ring frame is modified, with the drafting separated from the existing drive and with individual servo motors instead used to drive the drafting rollers. The drafting roller speeds are determined by the yarn recipe and the delivery speed of the ring frame. This means that the drafting runs in synchronisation with the main motor speed. The robust and reliable control system consists of a servo system and a PLC, which produces reproducible results.



FancySpin can produce slubs from 1.5 to 9.0 times the diameter of basic yarn, multiple diameter slubs, and more. FancySpin enables the production of fancy yarns at almost the same or at a slightly lower speed than that of normal yarn production, without affecting the ring frame productivity. The slub attachment in itself is not the reason for speed reduction. But it may be necessary at times to reduce the machine speed to some extent - depending on parameters such as the number of slubs/meter, slub thickness, and ring frame condition.

Features:

- Can be retrofitted on any ring frame with any drafting system
- Two ring frames can be driven with a single controller
- Can produce slubs of multiple diameters and slub over slub
- Covers a variety of fancy yarn manufacturing, ranging from normal slubs to multicount and multi-twist yarns for a wide range of counts starting from 4 Ne, subject to the spinning limits of the traveller

Benefits:

- Versatile and flexible; can be used to produce various types of slubs in a single package
- Easy switch-over between fancy and normal yarn
- High reliability with high quality servo motors
- User-friendly