



KCT – TXT – RIETER R923 ROTOR SPINNING MACHINE

Department of Textile Technology

Kumaraguru College of Technology, Department of Textile Technology emphasizes To harness the potential of textile industry in Coimbatore which is often identified with its sobriquet “Manchester of South India”, and to augment the contribution to fashion industry, Kumaraguru College of Technology started the Textile Engineering Department in the year 1995. The department has 12 professionally well qualified and highly experienced faculty members including 9 Doctoral faculty members. It is well-equipped with modern day facilities in its laboratories to provide ample opportunity to the students to explore their penchant for learning and innovation in the very supportive environment of Coimbatore.

ABOUT RIETER

Rieter is the world’s leading supplier of systems for short-staple fiber spinning. Based in Winterthur (Switzerland), the company develops and manufactures machinery, systems and components used to convert natural and man-made fibers and their blends into yarns. Rieter is the only supplier worldwide to cover spinning preparation processes as well as all four end spinning processes currently established on the market. Furthermore, Rieter is a leader in the field of precision winding machines. With 17 manufacturing locations in ten countries, the company employs a global workforce of some 4 900, about 18% of whom are based in Switzerland. Rieter is listed on the SIX Swiss Exchange under ticker symbol RIEN. As a leading supplier of installations for manufacturing yarns from short-staple fibres, Rieter offers a unique spectrum of products and services, and custom spinning mill systems that are tailored to satisfy every customer preference. Rieter enables spinning mills to achieve extremely high efficiency rates and a competitive advantage over the entire life cycle of a spinning mill.

- **Cost of the machine supplied: Rs. 34,00,000/-**

Machinery Details:

- **Open End Rotor Spinning Machine**
- **Model: Rieter R923**
- **Name of the Laboratory: Spinning Lab**
- **Department: Textile Technology**
- **Sponsored By: Rieter India Limited, PUNE Plant, Maharashtra**
- **Dispatched On: 15-01-2020**
- **Received and Unloaded On: 20-01-2020**

IMAGES



HEAD-STOCK



REAR UNIT



OPERATING HEADS WITH DRUMS



END-STOCK

TECHNICAL DATA:

No. of spinning positions	: 40
Flooring specification	: Concrete
Voltage / Frequency	: 415 / 50 V / Hz
Winding shape	: Cylindrical
Winding width	: 145 mm
Rotor drive	: Rotor drive 2 x 18.5 Kw
Opening roller drive	: 2 x 11 Kw
Delivery and winding roller drive	: Split winding inverter drives 2 x 4 Kw

About R923 rotor spinning machine:

It is a machine working in open-end principle to produce yarn directly from the sliver. Because of this we are eliminating two processes in the spinning line of yarn production. Because of this there is a considerable savings in terms of space, investment towards machinery, operators etc and high production rate. But technically there are some limitations regarding fineness of yarn produced and structure of yarn.

CURRENT STATUS:

The machine was installed in our spinning laboratory and waiting for commissioning.

EXPECTED OUTCOMES:

- Will be utilized for student(s) research projects
- Will be used for regular teaching for the students so that will be able to gain knowledge about the latest technology in our laboratory itself
- Will be utilized for industrial consultancy
