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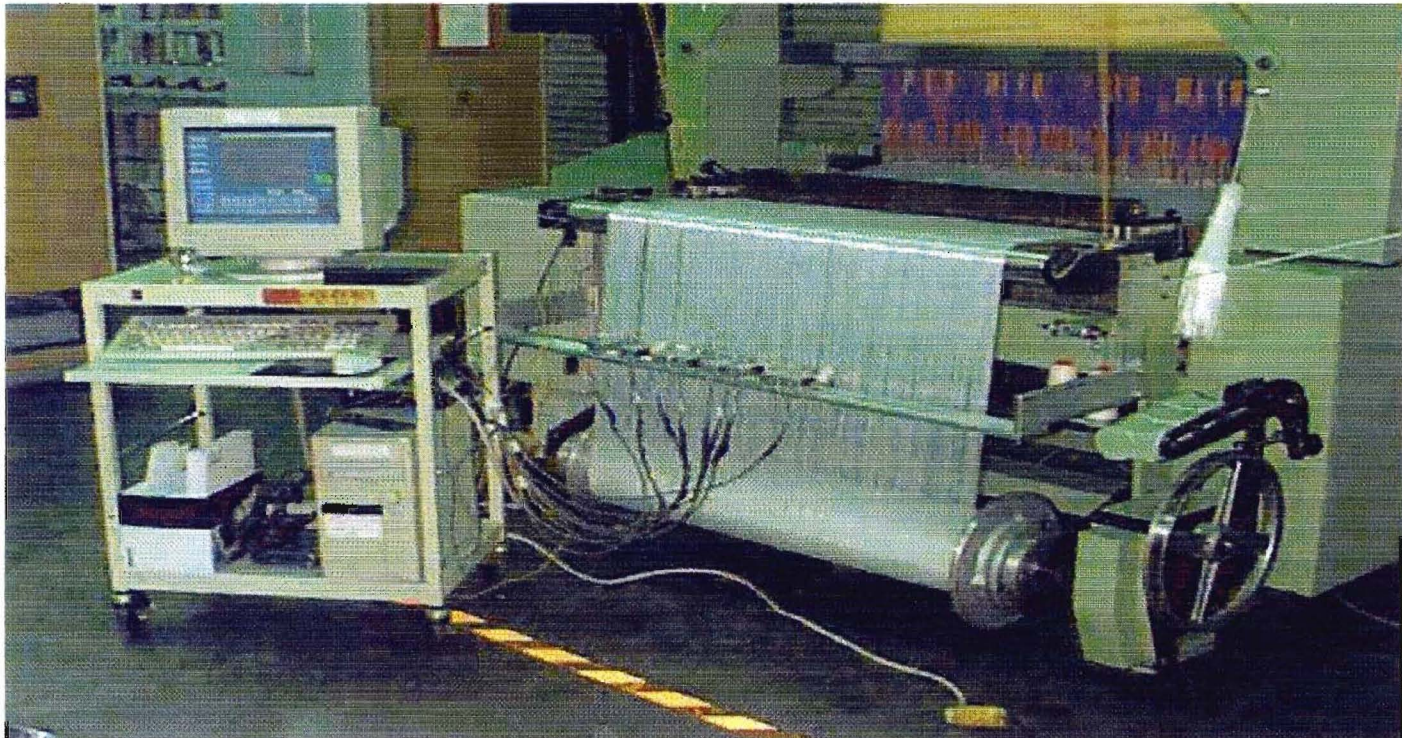
FACULTY OF INDUSTRIAL TECHNOLOGY
DEPARTMENT OF TEXTILE TECHNOLOGY

Causes of Yarn Breaks During the Weaving Process.

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A Dissertation Submitted in Partial Fulfillment of the Requirements for Bachelor of Eng. in Textile Technology Honours.

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ABSTRACT

This project was carried out to study the causes of yarn breaks during the weaving process. Yarn breaks being studied according to the project title occur in the weaving process. Though yarn breaks which are in focus in this study, are those associated with the weaving process. However, it should be realised that breaking of yarn in the weaving process might not necessarily have the cause of the problem in the weaving circles. Having this in mind, a study was carried out before the weaving stage i.e. in the preparation for weaving such as winding, sizing and partly in spinning.

Yarn strength tests were carried out to determine the effect of size on the strength properties of the yarn. Spliced and knotted yarn were also tested for strength to determine the effects of spliced yarn or knotted yarn to the yarn breaks in the proceeding processes. From all the strength tests carried out, each managed to successfully bring out dependable experimental data which revealed well the objectives and aims of the study. The Uster evenness tests were done on yarn packages from different rotor so that if there was any need for them to be attended, it could be attended. Another study which was done barely for interest sake was that of monitoring loom stops. The experiment sought to establish a relationship between warp and weft stops. Anyway, no definite relationship was established, instead it was concluded that weft stops were prevalent to warp stops.