

# Recent Developments in Rapier Weaving Machines in Textiles

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**Abstract** This paper reviews the recent developments in rapier weaving and addresses the challenges that face the weaving industry. The paper sheds the light on how the weaving machine manufacturers and woven fabric producers might strengthen the weaving industry by further advanced the rapier technology with the help of electro-mechanics, electronics, microprocessors, information technology and their application to the production of woven fabrics.

**Keywords** Rapier, Electro-Mechanics, Electronics, Microprocessors, Information Technology, Woven Technology

## 1. Introduction

Rapier weaving today exists in diversified forms. During the last two decades the developments in rapier weaving have been carried out in a rapid continuous way. Rapier weaving machine produces top- quality fabrics from spun yarns such as cotton-wool, camel hair, silk, synthetic fibers and fancy yarns. Today's rapier weaving machine has become fast and exceptionally flexible. It offers a choice of various reed widths, shedding motions, selvedges and filling insertion colors.

This makes it suitable for weaving an extended range of articles: fashion fabrics, shirting, denim, suiting, industrial or furnishing fabrics, in one to eight or twelve filling colors or yarns, with a maximum weight of 500 g/m<sup>2</sup>. Today's rapier weaving machine is designed with modern electronics, with total automation of weaving and central microprocessor control system, also ensuring maximum reliability, amazing user-friendliness, ease-of operation, shorter style changing time, excellent fabric quality, low energy consumption, and optimized insertion cycle for unequalled industrial speed[1-4].

## 2. History of Rapier

In the past 150 years weaving machinery has gone through the most radical changes. Although the invention of the fly shuttle by John Kay-which doubled the production of hand loom - came in 1733, the development of shuttleless loom, starting with the rapier loom, goes back to 1844, when John

Smith of Salford was granted a patent to eliminate the shuttle. Subsequent patents were taken out by Phillippe and Maurice in 1855, W.S. Laycock in 1869, W.Glover in 1874[7]. Rigid rapiers were invented in 1870 and perfected by O. Hal-lensleben in 1899. The main breakthrough came in 1922 when John Gabler invented principle of loop transfer in the middle of the shed [8-10]. Flexible rapiers of the type used today were proposed in 1925 by R.G.Moya of Barcelona, based on a Spanish patent applied for in 1924. In 1939, another inventor, R.Dewas, introduced the novel idea of grasping the weft at its tip by the giver or a carrier rapier, and then transferring it to the taker or a receiver, in the middle of the shed. In the period up to the beginning of the World War 2 many patents were applied for, but it was only in the 50s and 60s that rapier weaving finally become commercialized and since then has made highly significant progress in achieving the present weft insertion rate of 1,500 m/min plus[11].

## 3. History of Development of Rapier Technology

Rapier looms vary greatly in both the general strategies of their design, such as the choice of method used to transfer the weft between the rapiers and the types of rapier used- rigid, flexible or telescopic- and in details of mechanism used. These machines find preferential use in the production of with fashion-appeal compared to other methods of weft insertion which are mainly suitable for weaving staple items with limited fashion-appeal. Ease of multicolor weft insertion is fully exploited by rapier looms - many can insert up to 12 colors in any pick-at-will patterning sequence, including their ability to deal with a wide range of yarns and fabric types. The positive rapier drives enables heavy or otherwise difficult yarns to be inserted. The rigid rapier system of weft

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