

AUXILIARY DEVICES IN HAND WEAVING

Sylvie BOYER and Ivelin Rahnev

rue Bombecul, 47140 Penne d'Agenais, France

E. Miroglio EAD, Industrial District, 8800 Sliven, Bulgaria

Ivelin.Rahnev@emiroglio.com

Unlike industrial weaving, where technological operations are carried out in separate workshop premises, artisanal weaving concentrates almost all activities in one room. Each of the operations in weaving technique constitutes a part of the process, which is carried out independently and with equal interaction between the textile materials and the working devices. For this reason, the devices for all preparatory and accompanying operations in the weaving workshop must be available to the weaver.



The preparation of the weaving base requires four main devices: a rack for the bobbins with the warp threads, a reed for distributing the threads, a warping frame, and a warp crossbeam. Secondary tools are dividing rods for the warp, hooks, combs, brushes, scissors, etc. The preparation of the wefts is relatively shorter and is mainly limited to winding the yarn bodies for the shuttle. Mandatory tools include different types of cones for the shuttles, as well as different shuttles according to the type of weaving threads.

The common device for all processes, without which the preparation of weaving threads is impossible, is the winding or bobbin apparatus. It is used to prepare spools for shuttles, bobbins for the warp rack, or for rewinding in general.

Directly connected to weaving, two devices are an integral part of the loom. These are the reed and the slats to maintain the width of the rafter. Their peculiarity lies in the need for the presence of reeds and width holders with different technical parameters. For fabrics of different densities and widths, different reeds and differently adjusted width holders are required.

The main requirement for assistive devices and tools is to maintain their ergonomic and manually accessible nature. The initial step towards fully equipping the hand weaving workshop is to compile a list of the necessary auxiliary equipment. The following activities relate to the compilation of technical documentation for each tool: purpose, construction, method of operation.

The subject of this article is the auxiliary tools in the hand weaving workshop. The goal is to compile a project for complete weaving equipment for a hand weaving workshop.

Keywords: *textile equipment, hand weaving, auxiliary tools*