

YARN LOOP DENSITY ADJUSTMENT APPARATUS FOR CIRCULAR KNITTING MACHINES

ABSTRACT

5 A yarn loop density adjustment apparatus for circular knitting machines is installed on a circular knitting machine which has at least one needle to draw a knitting yarn. The yarn loop density adjustment apparatus includes a saddle seat coupled on the circular knitting machine and a driving means installed on the saddle seat. The saddle seat has a transmission mechanism driven by the driving means, a slider driven by the transmission mechanism and a cam
10 fastened to the slider to guide movements of the needle. The transmission mechanism has first teeth. The slider has second teeth corresponding to and engageable with the first teeth. When the transmission mechanism is driven by the driving means, the slider is driven to generate a moving displacement
15 through the engaged first teeth and the second teeth.

Fig. 2