

A method for measurement of length of long material that moves by means of closed in circle flexible sensitive element with perimeter (P). Material of sensitive element is chosen as such that coefficient of its friction with respect to long material is larger than coefficient of friction with respect to other bodies that are in contact with it. Sensitive element is conventionally divided into (n) component arcs, with pressing to long material, and at their joint motion in friction contact one calculates arcs, at that for each (m) arcs of sensitive element that have been displaced one registers next unit of length of long material. A beaming machine has pressure beam installed on trolley with possibility of contact with beam roll and counter of measurement of length of basis of web threads, this is beamed on beam roll, with sensitive element arranged as closed flexible strip that has marks for fixation of each meter of base threads of long material beamed on beam roll, this surrounds the pressure beam, at that flexible strip is installed in guide rigidly fixed on trolley with possibility of rotation and contact with basis on beam roll and connected to measuring electric circuit. Flexible strip is made of thin, opaque for light rays material, its perimeter is chosen close to perimeter of pressure beam from condition of provision of free slide on that beam and guide, at that the strip at its central part is perforated with measuring protector openings and has small width chosen from conditions of provision of its operability. The guide is U-like in form, through it strip goes, and in the guide optoelectronic couple is installed.