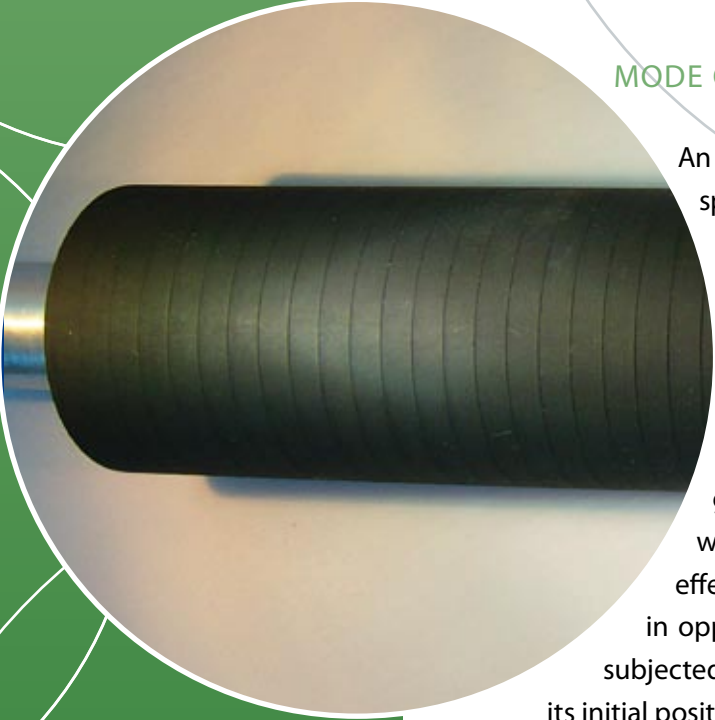



LÜRAFLEX[®] SPREADER ROLLS AII DESIGN

MODE OF OPERATION



An optimum mode of operation of **LÜRAFLEX**[®] spreader rolls requires that the tensile stress be uniform in the longitudinal and transverse directions and that there is a contact angle acting as an effective surface. By means of the tensile stress, the elastic strips of the profile – which are contrary to each other from the radial center plane and are undercut at an angle – are pressed down contrary to each other within the travelled contact angle acting as an effective area; they undergo a change in position in opposite directions. Each individual strip that is subjected to a load or tensile stress is thus shifted from its initial position.

DESIGN



The A II profile is also called a microprofile. Here, there are parallel incisions in the form of <math><0.5\text{ mm}</math> wide punctures, i.e. it is a nearly groove-free surface. It has been developed primarily for use with sensitive materials, such as in vacuum evaporation, coating or longitudinal cutting systems. Due to the centrifugal force, the tips of the strips move upwards only slightly; at the same time, they “relax”. The web tension makes them easier to deflect; thus a better spreading effect is achieved.