

CLAIMS

1. A measuring system for measuring parameters of a multi-segment rod-like article (1, 1', 1'') comprising at least one filled segment (3, 5) and at least one tubular end segment (2, 4), wherein the measuring system comprises:
 - a transporting device (11) for transferring the multi-segment rod-like article (1, 1', 1'') along a path of movement (R) transversely to an axis (n) of the multi-segment rod-like article (1, 1', 1''), wherein the transporting device (11) is provided with transport flutes (9);
 - at least one illuminating device (12, 13) for generating a light beam (18, 19) for illuminating a front surface (3A, 5A, 3C) of the filled segment (3, 5) by passing through the interior of the tubular end segment (2, 4);
 - a registering device (14) for registering an image (P, P'', P''') of the multi-segment rod-like article (1, 1', 1''), wherein the registering device (14) is configured to receive light of the light beam (18, 19) scattered by the material of the filled segment (3, 5), which penetrates through a material of a wrapper (7) of the multi-segment rod-like article (1, 1', 1'') and reaches the registering device (14), forming an outline of the front surface (3A, 5A, 3C) of the filled segment (3, 5) in the image (P, P'', P'''); and
 - a processing unit (22) configured to process the image (P, P'', P''') of the multi-segment rod-like article (1, 1', 1'') registered by the registering device (14) and to determine the production process parameters and/or parameters of the multi-segment rod-like article (1, 1', 1'').
2. The system according to claim 1, wherein the determined parameter is a length (a, b) of the tubular end segment (2, 4).
3. The system according to claim 1 or 2, wherein the determined parameter is a length (c) of the multi-segment rod-like article (1, 1', 1'').
4. The system according to any of claims 1 or 3, wherein the determined parameter is a distance (e) between the front surface (3A, 5A) and the illuminating device (12, 13).