

Guide Frames - Integral Guide

Application:

Integrally acting guiding rollers can be used if strip guiding is planned after a longer infeed section.

Functional principle:

The rotating axis of the guide roll is vertical to the incoming strip direction. The angular displacement of the roll towards the incoming strip creates the steering effect. This wrapping effect at the steering roll keeps the strip in the centre position and is stopped when the roll axis and the strip axis of the incoming strip forms a right angle.

The lateral correction capacity of a pure integral steering guide is defined by the maximum rotation angle from the centre position and the strip entry span, which is partly influenced by the wrapping effect as precentering of the incoming strip.

With a pure steering guide, for example end pivot or centre pivot type frames, overshoot and oscillation of the roll may occur. For that purpose, the EMG electronic feedback system guarantees a stable operation without overshoot.

