FECKER GMBH
Maschinenbau

■ Coil processing line

Quality begins with the construction

■ Coil processing line with movable and swivellable straightening machine

Overview

This machine serves mainly to uncoil and straighten strips with a large cross-section. The special feature of this machine is the safe, fast and easy introduction of the beginning of the strip from the decoiler into the straightening machine, and from the straightening machine into the press feeder and strip loop variation.

After the beginning of the strip has been passed into the feeder, the straightening machine is positioned in relation to the press feeder in a distance which allows an optimal loop formation, e.g. 2 m with a strip thickness of 1 mm and 5 m with strip thickness of 6 mm, according to the strip thickness, strip material, feed length, number of strokes and height of press entry. This keeps the loop still and enables better control.

The number of cycles of the feeder and the press can be considerably increased. The decoiler has a hydraulically adjustable hold down arm, with hydraulic motor drive and multiple-disk brake. In addition to the centre drive of the decoiler, the hold down roll drives the beginning of the strip safely into the opened straightening machine.

The side movement of the decoiler, with the coil in place, is moved into the winding position with a coil-positioning device for strip centering. Several different types of straightening machines are available, with a large opening range.

The straightening machine has a multi-motor drive (hydraulic motors). This ensures optimal load distribution over the whole mobile mechanism of the straightening machine.

An ultrasonic analoguesensor is used for the loop control. The strip speed is adjusted automatically, independently of the number of strokes of the press and the feed length.

The straightening machine is fitted with a hydraulically operated lead-over table, and can be fitted with an alligator head. The straightening machine is motor-driven. In the end positions the drive is automatically switched to an adjustable creep speed.