



▼ HIGHWAY SAFETY BARRIERS



FLEXILINES®
FLEXIBLE MANUFACTURING SYSTEMS



HIGHWAY SAFETY BARRIERS

**Founded in 1967,
DIMECO manufactures
flexible lines for
continuous metallic
parts production**

Description

Instead of the typical stamping, DIMECO proposes flexible lines for manufacturing railway protections.

Starting from coil, 3 or 4 mm (1 3/16" or 1 9/16") thick parts can be made in a single line, achieving roll forming and punching tasks. A flying shear and an automatic stacking system are also included, reaching up to 24 m/min (27 yards/min) speed production (about 12 t/h).

Generally speaking, the lines are adapted to manufacture a 2 or 3-wave guide protection.

The system belongs to a new generation product, as our new Servoflexipress® has been incorporated. In addition to the advantages offered by the Flexipress® (all the required tools to manufacture all the needed parts are set in the press, with no modifications needed), the Servo Flexipress®, created by our R&D department, provides a higher productivity and a better control for the line feeding synchronization and the punching cycle, especially when increasing the quantity and the complexity of the holes to be made.

The automatic stacking system is also relevant in the line. It is equipped with a constant level hydraulic table and a motorized side table to extract the stacked parts.

The lines are tested in our factory at real speed before delivery.

Line structure

- Approximate dimensions: 45 x 6 m (50 x 6.5 yards)
- 6.5 t coil charge car
- 6.5 t decoiler
- Semi-automatic welding system
- Straightener
- Press electronic feeder
- Servoflexipress® (120 s/min)
- Roll forming machine
- Flying shear
- Automatic stacking system
- Peripheral safety enclosure, according to CE standards.

Main advantages

- Flexible punching by Servo Flexipress®
- Commercial punching tooling
- On the fly roll forming and flying cut
- Coil tip to tail welding
- Selective stacking





PUNCHING AND ROLLFORMING FLEXIBLE LINE

Servo-Flexipress®

- CNC, high speed punching system.
- Power generated by a servo-motor.
- The press does not work unloaded.
- Flexibility to modify the stroking speed.
- The necessary tools (standard or not) to produce a parts family are installed on the press table.
- Every tooling is individually driven by one selector.
- Servo synchronization with electronic feeder.

Stacker

- After having been punched and rollformed, every part is automatically stacked, depending on the customer's requirements.



▼ Roll forming unit





DIMECO