

The new generation of DALCOS® coil punching machines



Dalcos Srl presents the new coil punching machines PXN easy.

Their main feature is the **compact layout** and their simple use: a real technological challenge!

The 300mm version can be installed in less than 4 square meters plus the space for the overhanging decoiler and the straightener (if required).

PXN easy coil punching machines have a **monoblock structure** in which the electrical cabinet, the hydraulic installations, the electronic feeder and the moving punching presses are installed.

Once the strip is put into the feeder, the machine **produces automatically** without the continuous supervision of the operator. The pieces are discharged after being cut by the integrated cutting shear.

PXN easy machines can be used to **produce perforated** strips, punched, notched and cut-to-length panels, door frames, filters, electrical cabinets, switch gear panels, ventilators, panels for the false ceilings industry and much more.

These machines can process metal strips in aluminium, steel, stainless steel, galvanized steel, mirror-polished aluminium, prepainted steel and aluminium, special materials, **even with protective film**.



Several patented solutions are integrated in PXN easy. Our **VEGA Bialternato® patented electronic grip feeder** uses two moving grippers that move in opposite directions. This simple device positions the strip with **high accuracy** in the X axis and can move the material **forward and backward**, maintaining the same precision even in changing width, thickness and type of material. Thus, production can be changed by simply adjusting the guides at the right width and introducing the new strip. Another important advantage of the VEGA Bialternato® feeder is the **length of the guides**. They lead the strip for a length that is at least double than the width of the material, to guarantee the **precise positioning** of the transversal moving punching tools.

The PXN easy punching head moves in the transversal direction (Y) and incorporates **5 or 10 thick turret tools** (standard tools for punching machines which can be supplied by several producers). Dimensions are B and C (up to 50,8 mm maximum diameter of the punch tool).

The specific hydraulic unit for nibbling operations can reach **over 600 strokes per minute**. The structure of the punching head has been optimized using FEM analysis to be light and quick. The **monoblock tool bearing arches** (punching units) are processed as a single cast iron block. This guarantees the perfect coaxiality between punch and die and higher life of the tools. The monoblock tool arches are modular and small, so **they can be easily handled** by the operator. All the tools can be changed directly at the machine side, thanks to the dedicated table and to the optional tool case set near the machine. After punching, the products are cut with the **integrated cutting shear**.



The machine can be programmed quickly using the machine display and keyboard. CAD CAM and parametric software can be used connecting the machine to a PC, for Just In Time production. PXN easy is available for strip width **from 20 up to 300, 400, 500 and 600 mm** (maximum processable width 650mm). It processes materials from 0,3 to 2mm and it is possible to work with all kinds of materials, from galvanized steel to the most delicate materials, with or without protective film. The high precision is granted by the VEGA Bialternato® feeder.



DALCOS
COIL PUNCHING MACHINES

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