

for high-quality die-cutting of compressible materials with counter pressure system.

Customer benefits

- Ultimate die-cutting precision, because stack is aligned on all four sides and pressed before the real die-cutting takes place
- A uniform quality throughout the production process is ensured, because the die-cutting pressure is already built up before the actual die-cutting process starts
- Easy set-up of the die with alternate-frame system outside the machine
- Short make-ready time by motorized precision adjustment of the cutting die within the machine
- Minimum loss of material, because the stack remains locked between the stamping punch and the counterpressure plunger piston



Description of DCC

The POLAR DCC system die-cutter forms the main item of a complete POLAR Label System for die-cutting soft materials which can be compressed under load. Connected in-line with the automatic cutting machine Autocut 25 it provides die-cutting on the basis of the counter pressure system. The Autocut 25 cuts the pre-cut strips into individual label packs which are automatically fed in front of the cutting die by means of two gripper fingers. The counter pressure plunger piston, which is the matching counterpart of the cutting die, moves through the cutting die and presses the material being die-cut. After that the punching stamp pushes the clamped stack through the cutting die and the stack is given its intended shape. The die-cut pack is unloaded downward via a shuttle and then carefully transported along special guide elements into the material delivery unit. The packs can be removed manually for packaging.

Technical data

Label size, min.	50 × 50 mm 1.97 × 1.97 in.
Label size, max.	170 × 250 mm 6.69 × 9.84 in.
Die-cut format, min.	46 × 46 mm 1.81 × 1.81 in.
Die-cut format, max.	166 × 246 mm 6.54 × 9.69 in.
Stack height min.*	35 mm 1.38 in.
Stack height max.*	5 mm 0.20 in below height of cutting die
Height of cutting die, min. (recommended)	65 mm (115 mm) 2.56 in. (4.53 in.)
Height of cutting die, max.	145 mm 5.71 in.
Die-cutting force, max.	50 kN
Die-cutting force, max.	7 kN

* depending on preceding and/or subsequent devices

** depending on material, label size

Further technical data are available for download on our website.