

The ultimate in automatic gap adjustment

ADJUSTABLE anvil cylinders have become indispensable in modern label production because the smallest deviations in the narrow gap between the magnetic and anvil cylinder, determine rotary die-cutting success or failure, especially with the demands created by the variety of materials and ever thinner liners.

Wink's SmartGap TOUCH hardware and software are designed so that extensions can be integrated rapidly and flexibly. Although the system already offers many automation features and advantages, it can achieve even more with the AUTOCONTROL extension.

This extension features a sensor bar that constantly monitors the die-cut material on the web and automatically adjusts the cutting depth to achieve precise cutting results.

'The AUTOCONTROL extension represents the ultimate in efficiency because it reduces downtime, waste, material consumption, and make-ready times; and also enables documentation and evaluation of stored data and settings,' says ROTOCON's CEO, Michael Aengenvoort.

To prevent damage to the liner material, a configurable control function ensures against cutting too deep. However, if the cutting isn't deep enough, it pulls labels up with the waste matrix and the system detects these missing labels. The system reacts within fractions of a second if a threshold value is exceeded and automatically increases the cutting depth until the desired die-cutting result is achieved.



Wink's SmartGap AUTOCONTROL system has an adjustment range of 80µm and enables individual adjustment on the left and right and simultaneous adjustment on both sides in steps of 0.5µm down to 0.1µm.



Can you imagine driving a car without an adjustable seat? Neither can we. That's why you can position the controls of Wink's SmartGap adjustable anvil cylinders where it suits your machinery best. This is especially useful if your die-cutting unit needs a housing."

Die care guidelines

To get the best possible performance from and extend the lifespan of your cutting tools, follow these handy tips for correct use, gap checks and storage.

Careful handling

- Never bend a flexible die or put it down on the blades.
- Always clean the reverse side of the die thoroughly with ROTOCON Iso pro before mounting it onto the magnetic cylinder.
- Only use a Wink-lifter to remove flexible dies from the cylinder.
- Remove all paint and glue residue after use and lightly oil both sides of the die.

Press pressures

- Check for exact positioning of pressure-bridge on the cylinder bearers.
- Ensure that bearings and shafts are running free from backlash.
- Pay attention to adequate pressure between magnetic, rotary and anvil cylinder.
- Increase cutting pressure very slowly.
- Clean and oil the bearers and pressure rollers regularly with felt strips.
- We advise the use of pressure cells.

Cylinder savvy

- Clean the cylinders thoroughly with ROTOCON Iso pro before use.
- Lift cylinders into and out of the machine carefully.
- Never put a magnetic cylinder down on the magnetic area.
- Don't ever place a rotary cylinder on the cutting lines.
- Regularly remove paint and glue residues with ROTOCON Iso pro.
- Control damage to cylinders by avoiding excessive bearer pressure.
- Oil the cylinder with ROTOCON Protec before storing.

Mind the gap

- Measure the gap regularly.
- Check or change the magnetic and anvil cylinder, if the gap is one-sided or the tolerance is too large.
- Consider gap changing when ordering new cutting tools.
- Inspect bearers, bearings, pressure rollers and gears regularly.

Safe storage

- Wrap each flexible die separately in oil paper.
- Store the dies in suspended file pockets or in the original cardboard tubes in which they've been supplied.
- Ensure the blades are facing upwards during storage.
- Keep the certificate of quality and the cutting sample provided.