

## Cantec's integrated CAN-O-MAT roll seamer – easy to set

Cantec have available a roll seaming station for their CAN-O-MAT multi-function system which can be integrated into every new and many existing CAN-O-MAT machines. For compatibility with standard CAN-O-MAT interfaces they had to deviate to a considerable degree from the usual design of roll seamers, sometimes even taking a completely new approach.

The roll-seaming station features a central height setting system for adjustment to different can heights which is typical for CAN-O-MAT stations and is also available with an optional motor drive. As with rail-seaming, the seam is formed at the bottom in order to simplify the infeed of can ends and to improve the accessibility of the seaming tools for can size changeovers and adjustment of the seam. A joint seaming lever carries both seaming rollers for the first and second seaming operations. This lever alternately turns to the right and to the left to activate both rollers one after the other. As a result, this design is more robust and minimises the number of moving parts. The free movement of the seaming roller is divided into 7 revolutions for the first operation and 3 revolutions for the second operation. The rolls themselves are made of surface coated tool steel, carbide or ceramic (1<sup>st</sup> operation only). The spring-loaded pressure plates, which are mounted at the top, are permanently driven.

During the development of this roll-seaming station special attention was paid to simple and intuitive setting of the seaming rollers so that a user-friendly and easy-to-set solution could be found.

Contrary to the standard design where the seaming roller usually has an eccentric shaft to set the radial distance between seaming roller and seaming chuck, the seaming rollers of Cantec's solution have a concentric shaft which can be screwed into the seaming lever. In this way, the axial setting of the rollers relative to the edge of the seaming chuck can be adjusted precisely. In addition, they can be removed and replaced easily and very quickly. The radial adjustment of the seaming rollers is another special feature.

The seaming rollers are not mounted directly onto the seaming lever. Instead, they are carried by small pushers which can be moved in a linear direction along the seaming lever towards the centre of the seaming chuck with the help of a small spindle. The seaming rollers can thus be radially set to the required distance to the seaming chuck (see photograph). In addition, they can also be adjusted to a new, smaller or larger nominal diameter without changing the seaming lever. If the same seaming profiles can be used, it is only necessary to exchange the seaming chuck and re-adjust the seaming rollers. When the adjustment has been completed, the setting mechanisms are blocked with the help of a clamping screw so that accidental maladjustment becomes impossible.

