

LONG CABLES LIGHT THINGS UP

Assembly halls require light in large amounts fluorescent lamps are often used for this. The company Veko Lightsystems specializes in the production of light lines and now works more effectively than ever, thanks to Metzner.

Light is a fundamental element. Whether in physics, chemistry or biology, secrets and explanations are concealed in light, which stirred human research since the beginning of time. The company Veko Lightsystems from the Netherlands is dedicated to light. For nearly 50 years, the company produces complete solutions worldwide for industrial lighting in office buildings and production halls.

Advantage of ribbon cables

Today, fluorescent lights are connected to

the mains using solid ribbon cables. The advantage: Once the line is fastened, the lamps can be simply and quickly connected using clips. The individual wiring of lamps is then no longer necessary. Ribbon cables usually have 5 or 7 poles and are produced with a diameter between 1.5 mm² and 2.5 mm² as continuous material, but without cut-outs for attaching the tubes.

The requirements

Veko Lightsystems required a machine which

strips the solid ribbon cables at those places where the lamps are later attached and approached Metzner with this requirement. In addition, a high processing speed and length precision in combination with exact alignment of the coiled solid cables were the central requirements of the customer.

The implementation

For Veko Lightsystems, it is important to individually process the respective ribbon cable. In order to handle this in simple and

The Facts

Customer profile

Veko Lightsystems is a medium-sized company with headquarters in the Netherlands. For nearly 50 years, Veko Lightsystems has been producing aluminium light lines for industrial and production halls for the European market.

Requirement

In addition to numerous technical specifications, the following main requirements had to be met:

- Exact stripping of the solid ribbon cables at points where the lamps will be connected later
- Exact cable alignment to rule out problems when installing the fluorescent lamp rail later
- PC integration in an existing IT-network
- Production and completion of the system within four months

Benefit

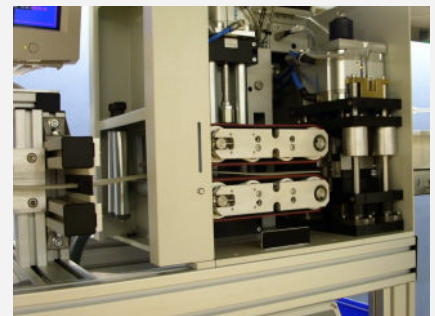
With the customized system, Veko Lightsystems can completely assemble all fluorescent lamp bands up to six meters long. Bands longer than six meters can be pre-assembled and installed on site with no problems. Thus, fluorescent bands can be delivered to the building site pre-installed, thereby considerably reducing the required installation work.



efficient way, all processing parameters can be called up at the push of a button via a PC program which is connected to the IT-network online. Based on this, the cables are then processed at any length and with cut-outs at every desired position.

Fast machining

The ribbon cable is dereeled from a roller, safely transported with a project-specific feeding device and is exactly aligned at the same time. Afterwards, three tools ensure exact processing. A matrix-like knife cuts the cable sheath. Then a punch exactly punches out the later connection points. Finally, the cable is cut to the desired length and is stacked. Since Veko Lightsystems usually cuts



fixed lengths between two and six meters long, the material stacker also measures six meters.

Convincing results

By working this way, it is possible to deliver completely pre-assembled lighting systems to the building site, which considerably reduces the installation effort on site.



From the design to system commissioning, Metzner required less than four months. Since then, the system has been running in the Netherlands and produces 180 ribbon cables per hour, each with four connection points on an average length of 6000 mm; Cables which will provide light in industrial and production halls only a short time later.