

the company to an ever greater extent during the '70s. Due to the successful combination of precision mechanics, in-house sensor technology and in-house developed hard and software. New products which were designed for the continuously changing industrial requirements were developed and continue to be developed. The range of products however, continues to be aimed at specialised, small market segments. The carton industry is of particular interest, with Quality Control systems suitable for platens and folder gluers.

This type of performance is not coincidental. Qualified and committed employees who contribute in the development, mechanics and fabrication departments make it possible. Good working conditions and the knowledge of many employees with years of experience with the company's know-how contribute the rest.

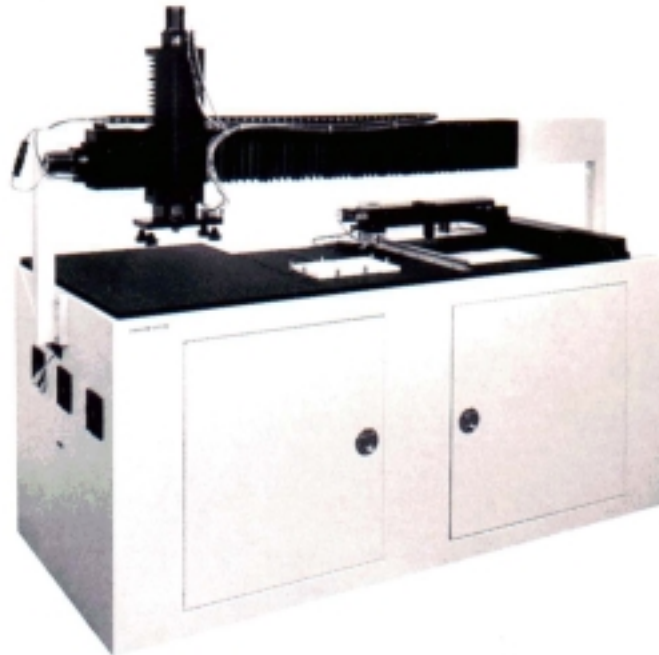
Concentrated effort by all available staff and state-of-the-art development systems enable short throughput times for projects. EMS's range of services is rounded off by its worldwide service for repairs and system installations.

The company's strength is in the development and manufacture of innovative products and systems for the benefit of its customers. The product group includes: process data recording, control and alarm systems, quality control for the packaging industry, optical sensors, camera systems, mechanical pressure monitoring systems and the development of special equipment and systems.

## CARTON BLANK TESTING

The ACT II Testing System, a leading computer-based system for checking carton blank quality, automatically verifies the dimensional integrity and crease quality (symmetry/asymmetry) of folding carton blanks, eliminating subjective evaluations by Quality Control staff. Accordingly, the ACT II can play an important role for ISO 9000 certification and documentation.

The Auto-Load/Unload Station, introduced by Indocomp Systems Inc., in 1993, automates the Q.C. process further with a 'robotic arm' that picks up a blank from a magazine, moves it to the X-Y measuring table and places it in the correct position



Act II Auto Load/Unload WS System.



ACT II HP Test System.

for testing. Like the original pacesetter ACT II, the compact load/unload Work-Station measures carton blank dimensions and crease quality with a high-precision LVDT probe (Linear Variable Differential Transformer), providing 'data points' to a computer for archiving and reporting in many useful formats, printed as 'hardcopies' or displayed on a video terminal.

Both the standard ACT II and the auto-load/unload-station come with a 430 x 430mm X-Y co-ordinate measuring table, new powerful 486DX2/80MHz or 486DX/50MHz central processors, a high-resolution monitor and an Improved printer/plotter matched to data gathering and reporting capabilities with up to 450 cps (draft mode). Indocomp offers a total of five X-Y measuring tables (with optional vacuum tops) for the ACT II — larger tables, up to 2500 x 2500mm, can be supplied on request.

To allow for the loading of

programme/system data (and for safety back up purposes), all Systems are supplied with magnetic tap drives ('streamers'). Communication with further in-house and/or external computer systems is possible via an internal modem. Other useful options available with the ACT II include: colour checking devices, such as spectrally-based or tri-stimulus colorimeters, and a label measuring system with a range from 10 to 380mm.

At the heart of the System included with the ACT II software, is Indocomp's Executive Programme, the agreed-upon Customer Data Base, which contains data needed to test cartons to 'blueprint' dimensions and customer specific standards and tolerances. Further, the package includes a History Data Analysis Programme, which presents 'quality results' in a bar graph format and a Communications Programme, which makes transmission of test data to and from remote locations possible.

Indocomp offers several models of the ACT II System, which is widely used by major converters and packagers in the USA, Europe, Asia, Africa and Latin America. Paragon International Consulting based in Munich, Germany is the sole distributor of the ACT II System in Europe, the Middle East and Africa.