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## Intelligent Machine Periphery: How to Define Short Distances, Automation, and Process Reliability

The demands on modern converting lines are constantly growing – higher throughputs, more flexible order changes, and maximum process reliability for high-quality products in lighter qualities characterise everyday work in corrugated board plants. To cope with this increasing complexity, machine periphery and intralogistics must not only be powerful, but also intelligently connected. MINDA precisely pursues this approach and significantly further developed key components of its periphery in recent years: from the Prefeeder Advector via the Spherical Cross and Spherical Table to the new second-generation of Strator Duo.

### Improved Pre-Feeders: Third Generation

More than ten years ago, Minda closed the last gap in the field of

machine periphery and developed its own pre-feeder which differed significantly from standard solutions in the market. The focus was on intuitive operation, short setup times, and optimal integration into existing layouts.

The third generation of the Minda pre-feeder Advector has been in use for over a year. It features standardised and intuitive user interfaces, revised mechanics for a stable and even shingle flow, and improved service accessibility.



The Advector prefeeder can be connected to almost any processing machine



Advector Verto prefeeder with integrated turner

At the same time, Minda introduced continuous production for the entire Advector series, with positive effects on quality, delivery times, and price stability.

### Spherical Cross and Spherical Table

The experience gained from the development of the Advector was directly incorporated into other peripheral components. In particular, the two modules that are decisive for bundle transport, the Spherical Cross and the Spherical Table, benefit from optimised production processes



Spherical Table in a Fractor line

that enable extremely short delivery times. Both modules have no shear or pinch points and offer the operator maximum safety and direct access.

### Strator Duo 2.0: A New Performance Level

Another key innovation is the second-generation Strator Duo, which reached market maturity at the end of 2024. Based on the experiences from the first series, a completely new module was created focusing on increased throughput requirements.

The Strator Duo is suitable for palletising large-size goods, ensures precise layer formation, and is ideal for the structured further conversion of cut-to-size sheets and bundles. In addition, it enables the simultaneous de-stacking of two blocks side by side, thus increasing cycle rate with a wide variety of formats. This enables the Strator Duo to keep up with high machine throughputs. Depending on the format, up to three stacks can be created simultaneously.

The Minda bundle conveyor technology, specially developed for the corrugated board industry, is used to implement a wide variety of pallet patterns.

The line is supplemented by modular components of Minda palletising technology.

Preliminary commissioning of our palletiser meant that installations at customer sites could be completed successfully in an exceptionally short time, which is a clear advantage for plants with short changeover intervals.

Together with the Strator, the Strator Duo offers a complete peripheral platform for converting

machines. For customer-specific requirements in the field of robotics, we cooperate with our partner MuK Maschinen und Konstruktion.

### Future-Proof Periphery

The further developments of the Minda periphery, consisting of the pre-feeder Advector, the breaker Fractor, the palletiser Strator, the bundle conveyor technology, and the palletising robot, follow a clear line: short distances, maximum automation, intuitive operation, and maximum process reliability. In combination with intelligent interfaces, AI-supported assistance functions, and pre-visualised layouts, a peripheral system is provided that meets the requirements of today's modern corrugated board industry and is prepared for future demands.



Automatic palletising



## Half a Century of Italian Development

Para was founded in 1976. This year they celebrate the 50th year of activity.

From the beginning, the company did not hide its industrial ethics: its goal was to exploit the full potential of automated production methods, constantly monitoring the changes in an increasingly global market.

Para meets a highly qualified team of over 100 people and a hundred external collaborators and subcontractors to support all of their national and international customers spread across Europe, Middle East, Mediterranean Africa, Russia, United States, South America and Australia, with an annual turnover (derived solely

from the internal production of automation equipment and peripheral machinery) of just under €30m over the last three years and continuously growing.

Para also dedicates its production resources to international supplies, being strongly involved in important

projects for many multinationals and large foreign private companies.

Para production is set out as a widely diversified choice with smart technical solutions and includes any answers for material handling and peripheral machinery for the corrugated industry,

