Innovative solutions and tailor made machines are the key drivers for our worldwide success. Following this path, we added the MCO 5000 to complete our product portfolio, the first modular configured and extendable coating and laminating machine designed to grow with your business.

With its flexible and new design concept, the MCO 5000 meets today’s and tomorrow’s market requirements:

- **Modularity**: easily extendable at a later stage and adaptable to the growing needs
- **Flexibility**: one multipurpose coating head for various coating methods
- **Time to market**: short delivery and installation/commissioning times
- **Easy Operation**: simple and powerful to maximize machine usability thanks to well proven solutions
- **Sustainability**: optimized energy consumption using high efficiency motors
- **World Wide Servicing**: by remote access and standardized spare parts ensuring quick response time

Possible applications

- PSA labels and silicones
- Clear on clear labels
- Laminated packaging
- Coated packaging
- Adhesive tapes

MCO 5000

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Coating processes

With the modular concept of the MCO 5000 coating line, a variety of coating processes can be achieved easily and also, if required, added at a later stage. The following coating methods are as standard available, they are executed as fixed multi-purpose coating unit:

- Gravure roller coating with non-pressurized doctor chamber T
- Gravure roller coating with pressurized doctor chamber MPG 600 CI
- 3 smooth roller coating head with pan
- 5 smooth roller coating head nip fed
- Slot die coating
- Other coating methods upon request

Coating media

Whether 100 % solid systems, solvent based or water based media (e.g. silicones), pressure sensitive adhesives, lacquers, primers, the MCO 5000 offers a wide range of possibilities.

Our proven technology assures highest coating weight accuracy as well as repeatability and easy handling.

Applications (among others)

- Silicised materials
- Label stock (e.g. PSA labels)
- Adhesive tapes (water based)
- Lacquered products
- Primed paper/film products

Machine Configuration

Unwind/Rewind module

- Turret un- and rewind
- Automatic splicing
- Splicing at full production speed
- Both direction splicing
- Integrated dancer for tension control

Coating station module

- Universal station for gravure and smooth roller coating, slot die coating
- Operation in forward or reverse mode (roller coating)
- Pneumatic adjustment of rollers
- Sleeve type backing roller

Dryer module

- Length of each dryer section: 5.000 mm
- Air floatation nozzles
- Heating systems by gas or thermal oil
- Variable nozzle configurations
- Alternatively used as air cooling section

Additional services

- Turnkey installation
- Class room and practical training of operating personnel
- Maintenance contract

Technical data

- Web width: 850 - 1.650 mm
- Speed: 1 - 500 m/min
- Substrates:
  - Papers: 25 - 150 g/m²
  - BOPP: 20 - 120 μm
  - PET/HDPE: 50 - 200 μm
  - LDPE: 50 - 200 μm
  - PVC Soft: 50 - 200 μm
- Reel diameter: up to 1.300 mm
- Core diameter: 3”, alternatively 6”
- Coating weights (dry): 0.2 - 35 g/m²
- Viscosity range: 50 - 1.200 mPas (20 °C, 100 [1/sec])
- Ø Coating rollers: 250 mm
- Ø Guide rollers: 150 mm
- Circulating air: max. 50 m³/sec, frequency controlled up to 54,000 m³/h per section
- PLC: Siemens S 7 - 315
- Drives: Sinamics individual drives
- Specifications: 2006/42/EC, EN 60204