



## MCO 5000

### Possible applications



PSA labels and silicones



Clear on clear labels



Laminated packaging



Coated packaging



Adhesive tapes

## MCO 5000

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

## The modular extendable COATING AND LAMINATING MACHINE



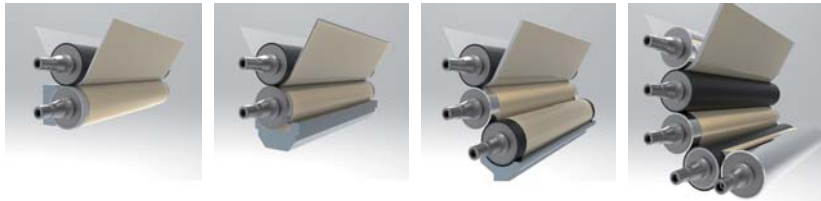
## Coating processes

### 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 methods



Gravure with doctor chamber T

Gravure with MPG 600 CI

3 roller pan fed

5 roller nip fed

### 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)

- Siliconised materials
- Label stock (i. e. PSA labels)
- Adhesive tapes (water based)
- Lacquered products
- Primered 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

### Additional services

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



### Universal module

- Pull station
- Web cleaner
- Flexo printing station
- Dry laminating station
- Conditioning station
- Rehumidification station, e. g. Steamtec 0.5/1.0
- Vacuum pull station
- Corona treater
- Edge guiding station
- Cooling station
- Dancer 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

- 24/7 emergency service
- Remote diagnostics (Teleline)

## Technical data

Web width	850 - 1.650 mm
Speed	1 - 500 m/min

### Substrates

Papers	25 - 150 g/m <sup>2</sup>
BOPP	20 - 120 μm
PET, HDPE	20 - 120 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/m <sup>2</sup>
Viscosity range	50 - 1.200 mPas (20 °C, 100 [1/sec])

Ø Coating rollers	150 mm
Ø Guide rollers	250 mm
Circulating air	max. 50 m/sec, frequency controlled up to

	54.000 m <sup>3</sup> /h per section
PLC	Siemens S 7 - 315
Drives	Sinamics individual drives
Specifications (mech./elec.)	2006/42/EC, EN 60204