

# INOMETA HEATER ROLLERS

Tempered roller for laminating and lining applications. Reduces the energy requirement and the set-up time of machines. Reduces the well-known inertia of conventionally used systems and enables heating cycles to be significantly reduced. The self-regulating roller system is based on the supply of electrical energy as a heat source and departs from previous system concepts that temper purely liquid media for temperature control.



## ADVANTAGES COMPARED TO CONVENTIONAL HEATING ROLLS, WHICH ARE MAINLY HEATED WITH LIQUID MEDIA:

- Very good energy efficiency/overall efficiency (no heat losses in reservoirs, pipes or pumps)
- Very low space requirements (reservoirs, pipes and pumps are not required)
- Minimal investment required (reservoirs, pipes and pumps are not required)
- Extremely low service expenditure, as it is not necessary to maintain rotary feed-throughs, pipes, reservoirs and pumps (reduction in components requiring maintenance)
- No or significantly reduced service downtimes
- High level of economic efficiency, thanks to good energy efficiency and durability
- Shorter heating and preheating times (time-consuming heating of the medium is no longer necessary)
- Easy to install, thanks to minimal space requirements
- Local generation of process heat, exactly where it is needed
- No leaks, which contaminate the surroundings or substrate
- Eco-friendly recycling by eliminating oil-based heating media
- Ecological, as no waste oil load
- Great options for integration into the machine control by means of fieldbus and therefore options to document and influence the process variables

# AREAS OF APPLICATION



## POSSIBLE DIMENSIONS

- Length WOB up to 1500 mm
- Outer-Ø max. manufacturing possibility INOMETA
- Inner-Ø min. 180 mm
- Minimum wall thickness
  - WOB < 1000 mm -> min. 15 mm
  - WOB > 1000 mm -> min. 20 mm

## TEMPERATURE DISTRIBUTION – SURFACE

- Temperature distribution can be precisely controlled via heating media positioning
- The main goal is always a homogeneous surface temperature distribution

## MATERIALS

- Steel, aluminium

## ROTATIONS

- Max. 400 – 800 rpm (depending on version)

## TEMPERATURE RANGE

- Roller max. 220 °C
- Slip ring max. 85 °C – 200 °C (depending on version)

## SURFACES

- Surface geometries, surface coatings (carbide, anti-stick, elastic casings in various degrees of hardness, such as FKM) can be implemented based on customer requirements

## DURABILITY OF SLIDING CONTACT

- Approx. 500 million rotations until maintenance-free (depending on version)

## AREAS OF APPLICATION

- Battery cell production, fuel cell production, calander, lamination processes, coating processes, stretching processes

## DESIGN

- Roller with fixed journal extension