



Coating office furniture quickly and reliably

# Considerable capacity increase thanks to new quick color change system

Capacity, quality and ease of operation are the most important requirements on the powder coating system at Godrej, located in Haridwar in the Indian state of Uttarakhand. For its upcoming capacity expansion, Godrej has once again selected a powder-coating system from Gema. Frames, legs and bases for office chairs are being coated with this new system. The results are convincing in every respect.

«Our systems must be intelligent and reliable and problem free.» This clear and definitive statement is what the General Manager of Godrej Haridwar used when he began our conversation during our visit to his facility. In Haridwar, Godrej manufactures office furniture, above all office chairs for the Indian market but also for other Asian countries and Africa. Demand is rising continually, and the manufacturing capacity must be adapted to it. For the surface finishing, electrostatic powder coating has been used since 2000. To cover increasing capacity requirements in this area, a new coating system

from Gema was put into operation in Haridwar in January 2010.

After a year, Godrej has seen its expectations met in every respect. The system's intelligence is implemented with a proven control system from Gema. The optimal combination of object recognition, axes – guns and system control is the basis for a highly automated and extremely efficient coating process. With the system, it was possible to increase capacity without the need to add extra operating hours. Today, when operating at a conveyor speed of 5m/minute, the system can automatically



coat as many as 7000 leg assemblies for office chairs in each shift. In addition, two manual coaters can apply a coating to particularly tricky spots either beforehand or afterwards. If more capacity is required, conveyor speed can be increased to 6m/minute and thus an additional 1400 leg assemblies can be coated.

In addition to capacity, the quality of the coating is of particular importance. The objects are coated with an epoxy/polyester powder. Using this new system, Godrej achieves a very uniform surface with a constant layer thickness of 50 - 60 µm.

Worker safety during manufacturing is also very important for Godrej. Thus, the coating process is not only very safe but it also leads to the best reproducible coating results, while offering a safe, comfortable working environment for operating personnel. Best practice has been introduced due to very good operator training and the powerful suction in the system keeps workplaces and the overall environment clean.

Godrej gives the system particularly high marks with regard to operation and maintenance. This starts with the training of operating personnel, which is carried out by Gema in a thorough and competent manner. All compo-

nents have been well thought out ergonomically and are easy to operate. All processes for operating, cleaning and maintaining the system are well described and easy to carry out.

One thing that is particularly valued is the reliability and ease of use of the new coating system. The employees have meanwhile become very acquainted with handling the system and can do everything independently.

## SYSTEM DATA

- 1 MagicCompact quick color change booth
- 1 Control cabinet with coating guns and axis controls
- 16 Automatic coating guns
- 2 Hand coating guns
- 2 Reciprocators
- 1 Powder station
- 1 Control system

## THE COMPANY

Godrej is as much a part of India as the kurta, the collarless shirt worn mostly by men. It is one of the best known brands on the Indian subcontinent, and the range of products marketed under this name extends from industrial technology to household appliances, furniture, security systems and landscape maintenance through to consumer goods. More than 500 million Indians use these products every day. The Godrej Group operates at seven major locations in India and is active in 60 countries. The company has sales in the range of USD 3.3 billion, of this 25 percent oversea.

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