

Chemical smoothing of 2 meter parts and longer

(Planegg 8.11.2021)LuxYours presents at this year's formnext its LUXMatic-TeAMs concept for smoothing of long parts.

LuxYours finishes with the help of biodegradable solvents and the Iterative Flux Smoothing (IFS) components in record time with almost zero defects. Smoothing is carried out reliably on internal and external surfaces. LuxYours now presents a concept for smoothing overlong components.

Chemical smoothing of powder-generated (PBF) components is a successful technology for finishing thermoplastic components. In order to realise components that are larger than the available 3D printers, parts are joined. Due to the joining and grinding, the components look like patch-work, which is only made suitable for the customer by a time-consuming and cost-intensive coating. Through chemical smoothing, such parts can appear as if they were "cast from one mould" and can be finished in a cost-saving manner.

The LUXMatic-TeAMs concept

The clever design of the LUXMatic 700 allows the process chambers of several machines to be connected to each other via a tunnel. When 2 machines are coupled, parts with dimensions of 2000mm x 500mm x 500mm can be chemically smoothed. Such a process volume is sufficient for e.g. bumpers or dashboards of luxury class vehicles. The concept provides for the coupling of further machines. If necessary, the connection of the machines can be reversed to obtain LUXMatic 700 machines working independently of each other, which can then smooth components up to a size of 700mm x 500mm x 500mm.



Two LUXMatic 700 coupled with a tunnel for smoothing of 2m long parts.