










Electrolux Home products Italy S.p.A.
 ETN Aviation GmbH
 WZL – RWTH Aachen

Capabilities

-  Balancing and aligning of washing groups
-  Mass manufacturing production
-  Part to fixture alignment
-  Cycle time below 30 sec
-  Material is stainless steel
-  Part diameter 452 or 490 mm
-  Weight from 3.5 to 7 Kg
-  Thickness of the drum from 0.4 to 0.6 mm
-  Concentricity required below 1 mm

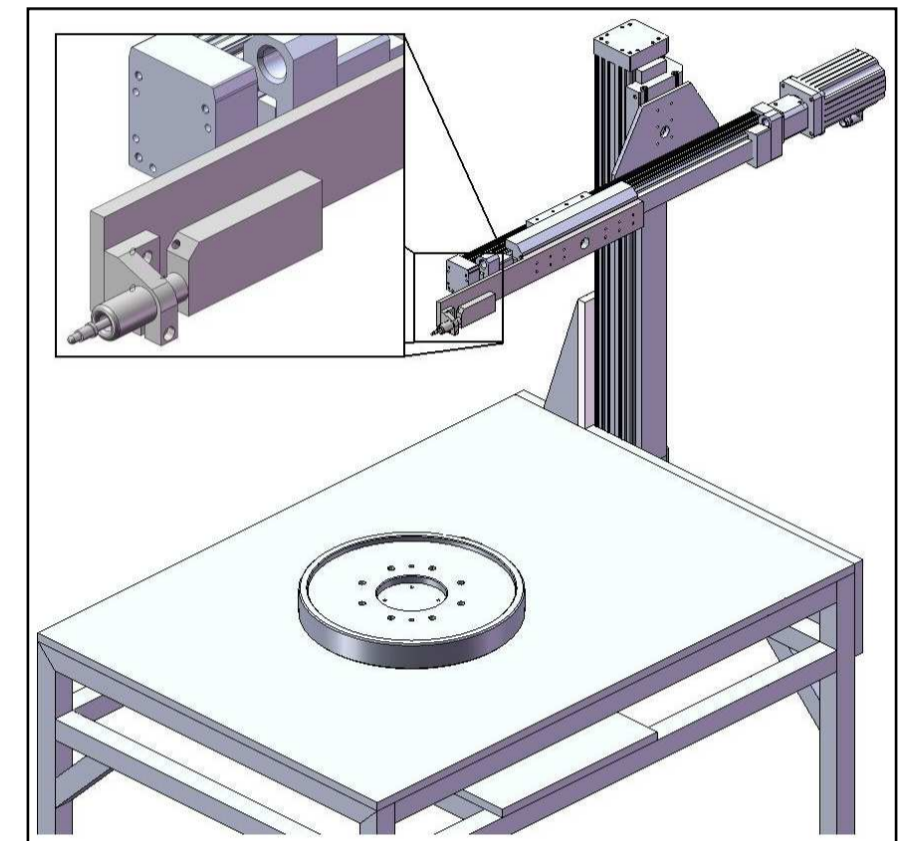


Figure 1: Concept of measuring and aligning system

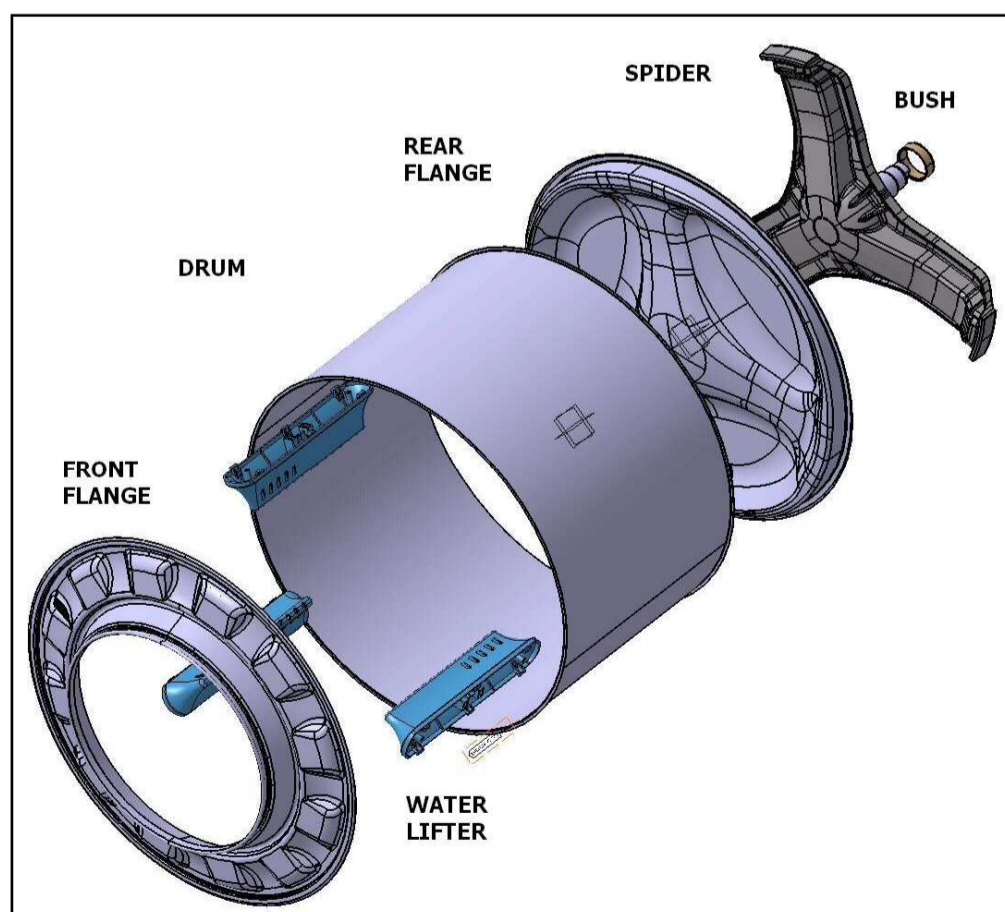





Figure 2: Washing group

Current Status

-  The part's identification is realised by a barcode system.
-  The acquisition of the part's position and orientation is implemented by using optical and mechanical measurement systems.
-  Existing deviations are adjusted by the automated alignment system.

