Avoid incoming inspection

Save time with Automated Quality Measuring Verification (CoA)

ISO 13485 requirements place demands on all dental manufacturers for verification of measurements. As a result, Elos Medtech, as a subcontractor to dental manufacturers, is collecting more and more data regarding the production of their prosthetic implant components. All the data that comes from that process has now become directly available to our customers.

The Challenge when checking the quality

Today dental manufacturers perform the incoming inspections on all new batches when they receive the goods. In order to do this, they have to break the sealing of the blister to make a random sample. Thus, they end up with a scrapped component and at the same time must spend valuable time conducting the measurement of the component itself. So, two additional processes and a scrapped product — just to check the quality.

No need for physical measurement

At our COC, both the batch number of the component as well as the batch number of the subparts are listed. It is then easy for our customers to review the measurements of their own choice – e.g. the CTFs. They no longer need to measure the physical component, saving a lot of time. The customer simply accesses the reports to see the values of the CPKs. The documents are reviewed digitally. Based on that, they can then release the product.

Inspection during production

When manufacturing, all products are inspected during the production steps according to a pre-specified control plan. In this plan, it is also defined how many samples should be used and how often the control must take place. All these data are saved in our SPC system (Statistical Process Control), and the spreading is documented with CPK values. Additionally, on selected machines/products, we run 100% control on the outer dimension by our InLine Measurement connected to a robot system, where all dimensions are documented 100%. If any dimensions are outside of the specification, the robot will place the specific article in quarantine. All sub-component measurements can be tracked.

These data are made available to the dental manufacturing customer. We then create OneDrive folders for our customers that only appointed staff can access. We upload daily measurement reports over the produced components, keeping our customers constantly in the loop. Then the customers can download/transfer it into their own system after their own choice.

1,5%
COST SAVING

SAVINGS

This Automated Quality Measuring Verification set-up affects the entire supply chain — and speeds up the process from receiving the parts to release.

Approx 1,5% of cost savings (estimated based on time and products) are made on:

- Incoming inspection
- No scrap of components (as you no longer need to open the blister pack)

And this is a *continuous* savings. Not just a one-off.

We have made a substantial investment in building a system that can document all measurements and draw customer-specific reports. For you, it is just a plug and play. The onboarding is also fast and easy. The more processes/products you add, the more you get out of it.

Elos Medtech • Engvej 33 • DK-3330 Gorlose • Denmark
+45 48 21 64 00 • dentalsupport@elosmedtech.com • www.elosdental.com