

A detailed photograph of a tube machine, showing various rollers, hoses, and mechanical components. A yellow tube is visible running through the machine. The image is used as a background for the top half of the page.

Fast PBL

Sustainable and Efficient

Your Benefits

- PBL is much environmentally friendly
- Replace a few key parts on your machine to run PBL laminates without problems of quality or speed
- This upgrade kit is available for all our recently produced side seamers with the exception of the BLM/Prestige Body Maker .

Tube machine upgrade

When looking at the end of a tube life, recycling of multi-material structures like ABL (aluminum barrier laminate) is very difficult and economically not viable.

New material developments focus on mono-materials which are ideally compliant with already existing recycling streams. To reach that goal, the aluminium layer is replaced by a plastic barrier – usually EVOH. Plastic Barrier Laminates (PBL) are more and more often made with low MFI-HDPE's or even PP materials enabling the tubes to be recycled and used in the production of blown-bottles.

Why is the Fast PBL upgrade necessary?

The «standard» PBL laminates developed up to recent years work perfectly on our existing systems. However, due to the many new laminate developments and the various properties that they bring with them, we have developed the Fast PBL Upgrade. This means that running PBL the same way as ABL is possible but not recommended as there can be some problems such as:

- Seam quality issues
- Lower machine speed
- Higher ovality of produced tube bodies.

This means that the quality of the tubes is not acceptable for the brand owners. In addition, there will be higher rejection rates and therefore higher production costs

The Fast PBL Kit

The Fast PBL kit requires additional or replacing components. It is important to know that the combination of all elements together make the difference!

1. Install a second High Frequency generator for separate power control of the inner and outer steel belts.
2. Replace the existing seamer mandrel by a “flat mandrel”. The special flat shape and the new cooling design results in less ovality.
3. Upgrade the cooling section to the patented “DuraSeam® Air” system to improve the cooling performance from outside.
4. Install the newly designed ovality control unit (OCU) at the end of the mandrel to ensure the roundness of the tube.

The Fast PBL retrofit is available for all our continuous side seamers except the BLM/Prestige Body Maker model.

FAST PBL Upgrade parts

