

FFS RETROFIT SOLUTIONS

Increase the output of your W&H FFS by up to 50%!



Why FFS Retrofit Solutions?

- The new FFS dedicated Air Ring with P2K PLUS profile control heavily increases the bubble stability. Today's mLLDPE/HDPE based recipes can be controlled up to 500 kg/h with perfect consistency in gauge and width.
- The all new and dedicated MAXICONE FFS 3 layer die head digests these recipes without coming close to a pressure limitation even when ramping up to 500 kg/h and more.
- Avoid blocking by re-purposing your vacant MULTICOOL air ring and have it installed below the flattening.
- Add reinforced IBC blowers and cooling coil with twice the pressure to intensify the IBC air exchange rate for even more output.
- Make use of the extra capacity that is buried in your extruder configuration.
- Let W&H take you by the hand to analyze your production data identifying your current limiting factors.
- Have W&H's vintage 2021 machine components retrofitted to your existing machine where applicable. Often the results are breathtaking and achieve an increase in production capacity that is hard to believe.

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Your advantages

- ✓ Increase bubble stability using a W&H FFS Air Ring
- ✓ Eliminate pressure limitations with a MAXICONE FFS die
- ✓ Avoid blocking with your re-purposed MULTICOOL Air Ring
- ✓ Get up to +50% in output on your W&H FFS line

Technical Data

MAXICONE FFS Die Head with diameters 160 and 180 mm

FFS Air Ring for diameters 160 and 180 mm



Learn more about **FFS Retrofit Solutions**:
www.wh.group/int/en/company/news_events/e_magazine/video_optimex_ii_ffs/

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When harvesting the extra bubble stability gained from the new FFS air ring and other components, the line speed will increase accordingly. This reduces the time for the film to cool down until passing through the primary nip. This will require additional cooling capacity to be installed to avoid blocking effects.

The MULTICOOL air ring shown on the picture above could be your current main air ring after being modified to operate as post cooling ring. Installed on a movable frame and attached to a new set of blower and cooling coil, your existing air ring will be used to avoid blocking. Continue to use existing components is a good example of W&H's sustainable way of thinking.

All mentioned retrofit components target W&H FFS blown film lines, primarily the OPTIMEX FFS generation. But also VAREX FFS blown film lines can be retrofitted in the same way. Even non-W&H lines can be checked out for gaining extra capacity by exchanging individual parts.

Every project to retrofit an existing line for more output needs a professional analysis of the data first. Then a loadable suggestion is made what modification(s) are applicable to get the best performance from your line(s).

Gaining significantly more production from the same floorspace and with the same number of operators will contribute to further improve your production cost.

So, in case you intend to increase your capacity, make sure to do it in the right way and with the right partner. Finally, you compare the results that you get from a retrofit vs. a new machine and you decide what works out best in your specific situation.

To get your retrofit project started, provide us with a production printout. W&H will analyze the situation and you will receive our tailored recommendation what can be done.

Talk to the FFS experts!



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