

FleXicut – Waterjet cutting Post & Pre Rigor value added portioning

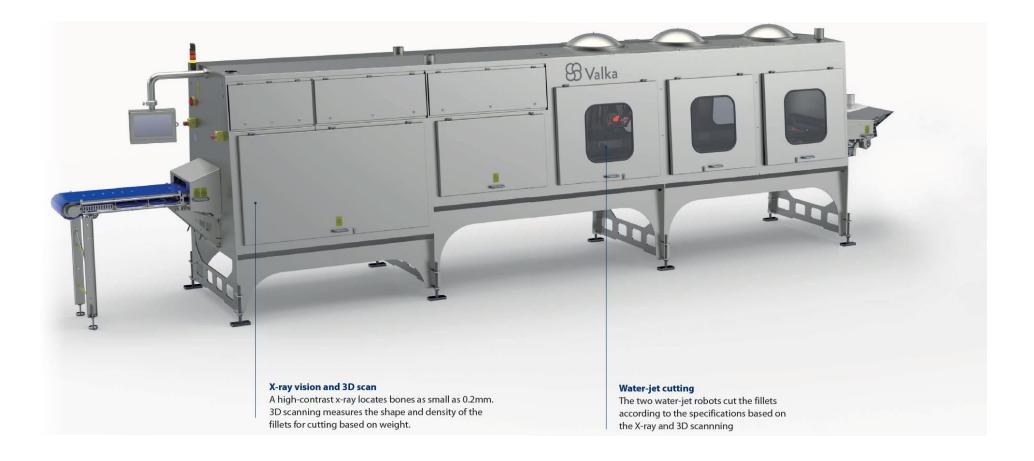


Marel and Waterjets





Two Platforms





Two Applications

- Pre-Rigor
- Cut bones out
- Cutting out bones and make products like the Whitefish Industry has done
- Splitting up the fillet into different portions

<u>Or</u>

- Post-Rigor
- Pull out bones via pin-boning
- Either Trim or Portion fillet according to predefined cutting profiles





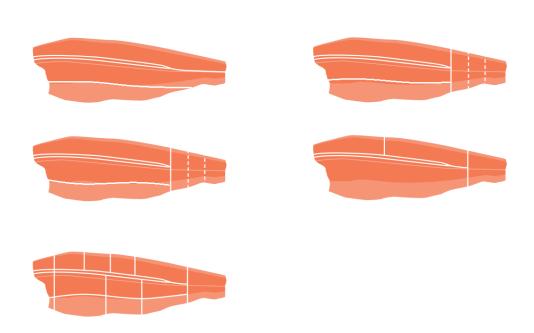
Pre-Rigor





Pre-Rigor

- Ultra Fresh
 - Straight from harvest to retail ready product
 - No waiting for Rigor to pass
- Higher value premium product need to make up for yield loss
- Opportunity to grow bigger salmon?





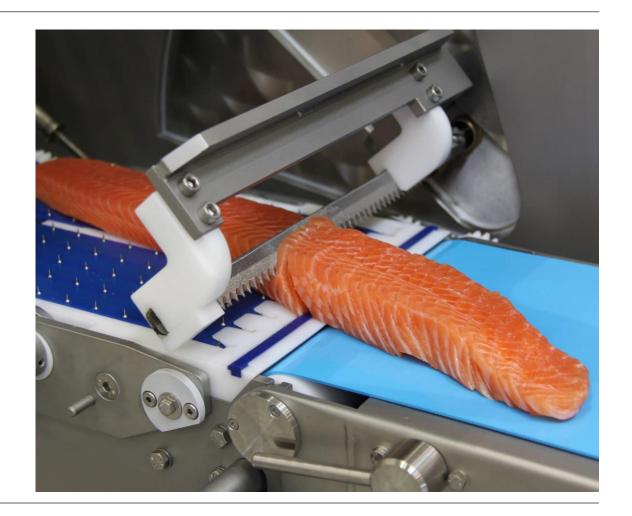
Example of products











Post-Rigor Portioning

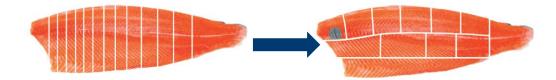


Traditional cuts

Product waste due to head trim

New possibilities

Head trim eliminated to increase high-value product



Traditional cuts

Thin portions can be difficult to pack and give inconsistent retail presentation

Innovative cuts

Alternative loins or belly portions can be used for innovate products





Post-Rigor Trimming

- Combination of:
 - -Xray
 - -Color Camera
 - Waterjet robots





Neckbone & Belly trim

Reduce manual labor and cut-off waste with precision neckbone removal and belly trim



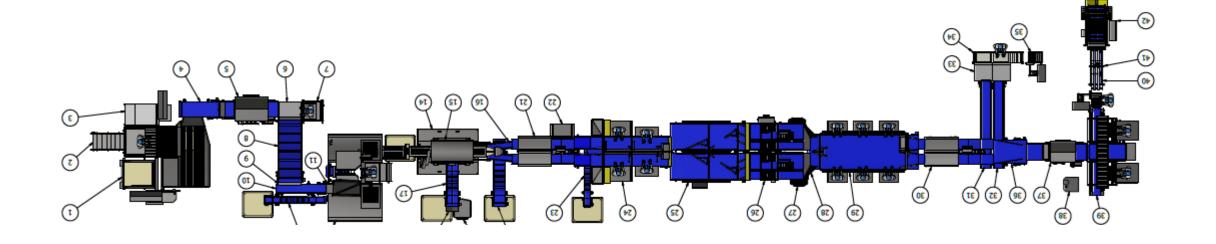
Neckbone, belly & back trim

Precise neckbone removal with belly and back trim



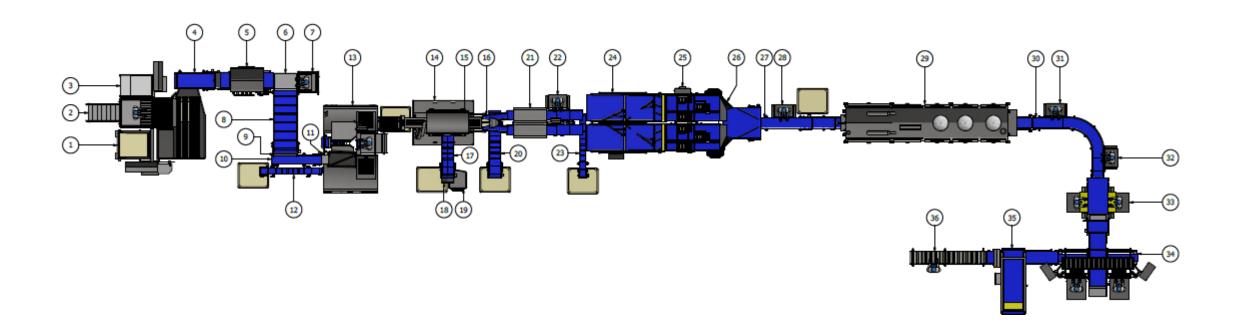


Line Comparisons





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Thank you



