

Jeroen Vincent

XPAR Vision - Philosophy

Provide to the container glass industry:

- solutions for Continuous Improvement
- of Process and Product Quality
- to reduce losses (cost) and improve efficiency (profit)
- by developing innovative solutions for the Hot End
- that's where quality is made...!!!
- for customer's satisfaction

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Real time process information Hot End Inspection



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XPAR Vision – heading for perfection

- Continuous developments to improve existing solutions
 - New & Improved Software Modules (v6)
- Bring new solutions to the Glass Industry:

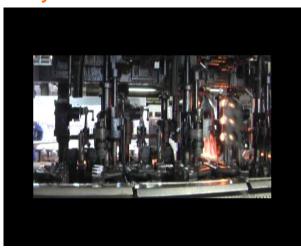
Gob Assist



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heading for perfection

Why the new Gob Assist?



Can any one see by eye what happens exactly in 20ms?

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Why Gob Assist?

- Gob loading is an important process step
- 60%-80% (aspect) defects are related to Gob Loading
- No tools available, only years of experience (eye)
- Incomplete know-how loading process
- Much room to improve

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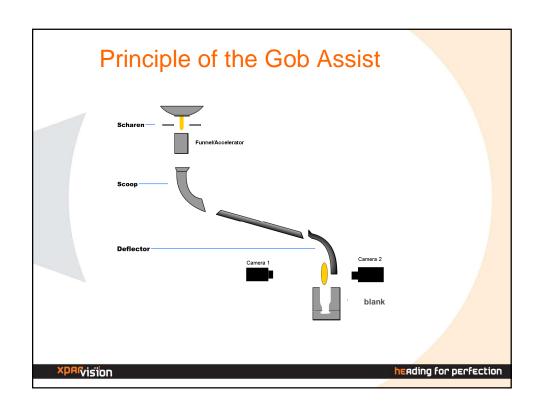
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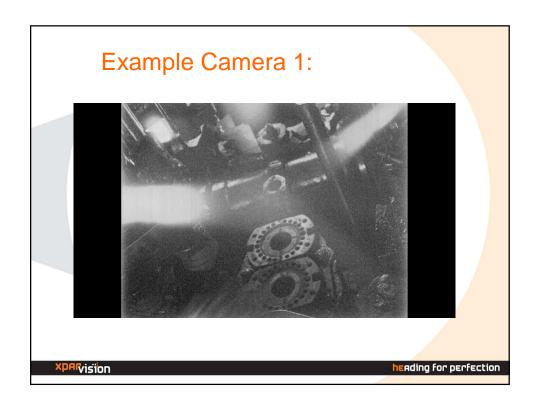
What is Gob Assist?

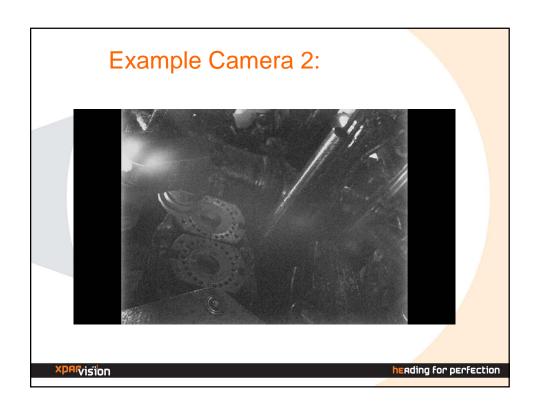
Design goal's:

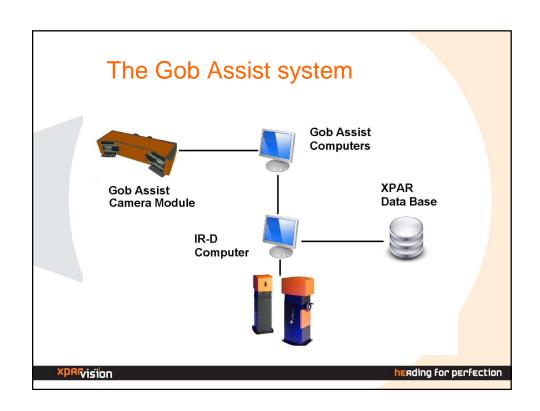
- To find the optimal loading of the gob
- To maintain the optimal loading of the gob
- To retrieve the optimal loading after (equipment) change
- To retrieve the optimal loading after a Job Change
- To improve the gob loading process

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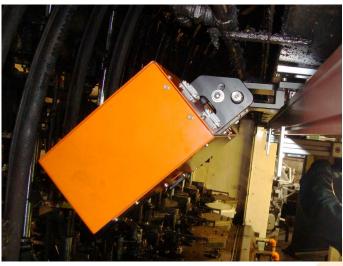








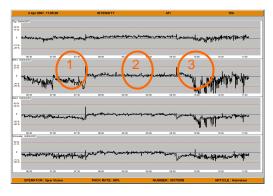




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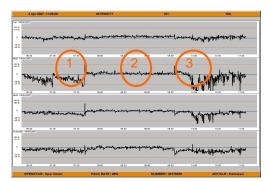
Gob Assist & XPAR IR-D



- 1 = deflector adjusted
- 2 = stable / optimal loading
- 3 = adjusted deflector

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Gob Assist & XPAR IR-D



- No direct information about the Gob Loading
- Adjusting time can be long
- No product dependent optimal preset possible (Material change & Job Change)

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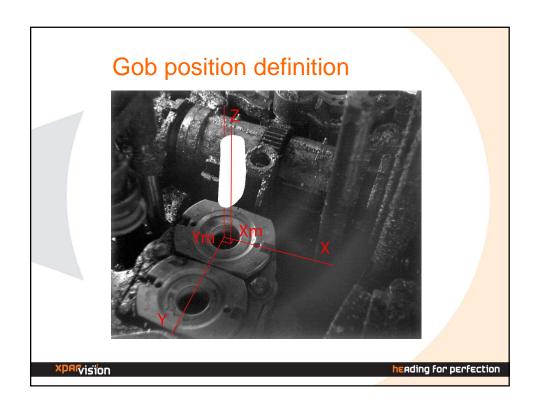
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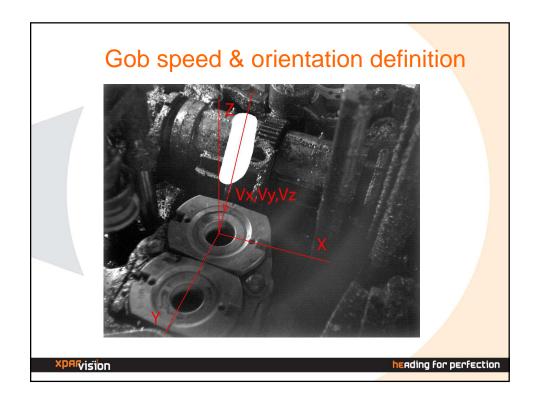
Gob Assist Measurements:

Parameters:

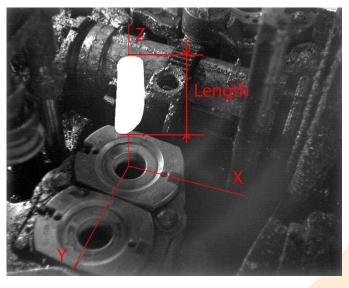
- Position into the blank mould
- Speed
- Length
- Shape
- Diameter
- Orientation
- Time of Arrival (T.O.A.)

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Gob length 3D



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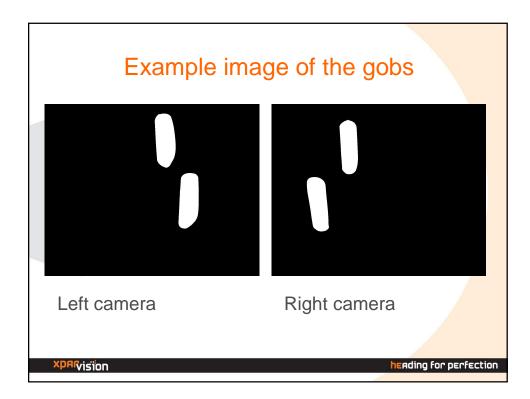
Example test results Gob Assist

Ardagh Glass Dongen, The Netherlands

10 section, double gob156 gram jar

Test: Section 7

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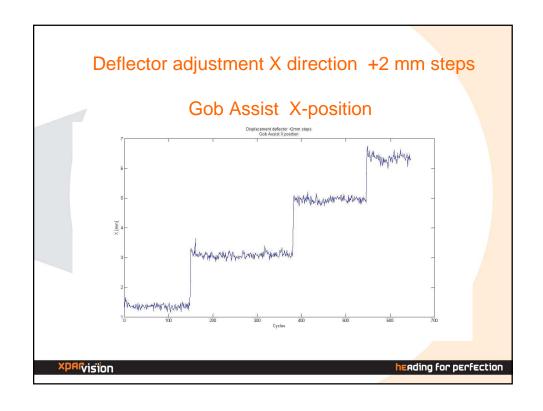


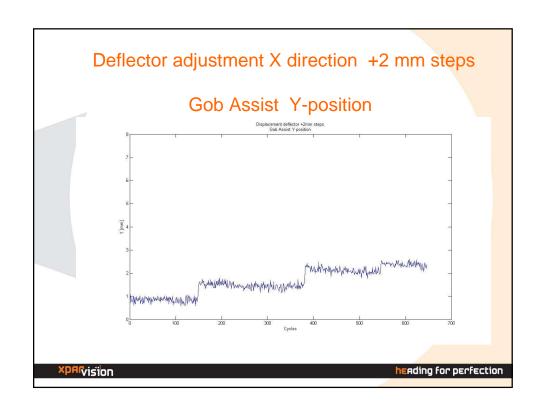
Test results Gob Assist

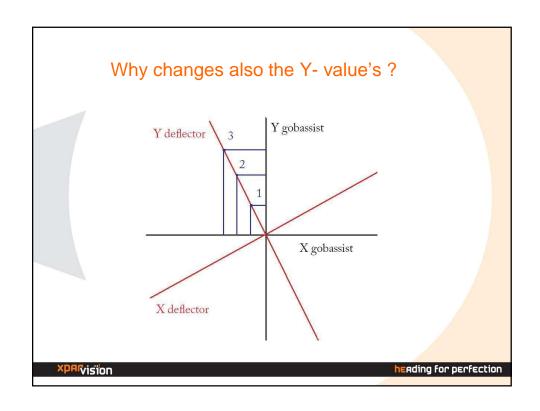
Change the position of the deflector in a "controlled" way

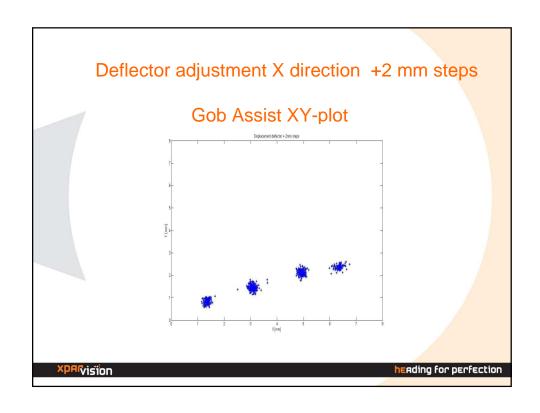


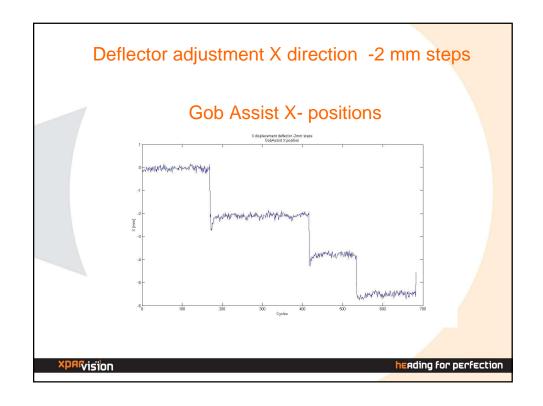
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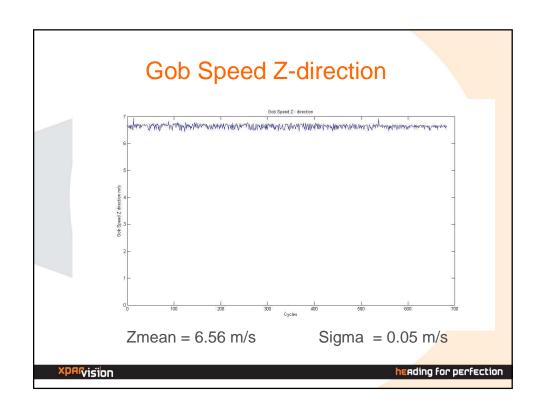


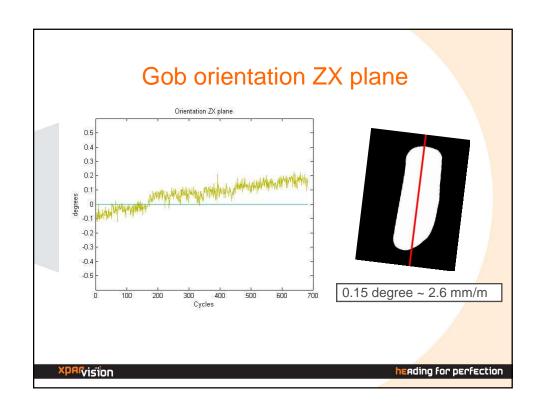


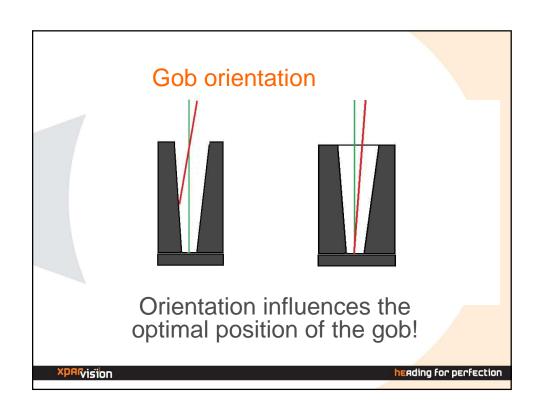


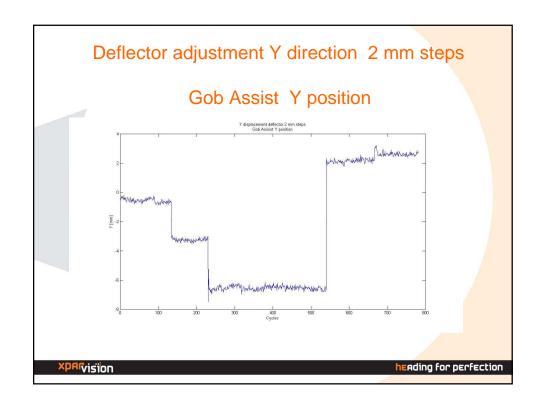


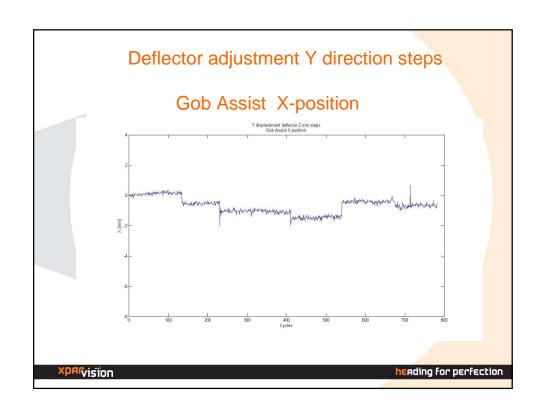


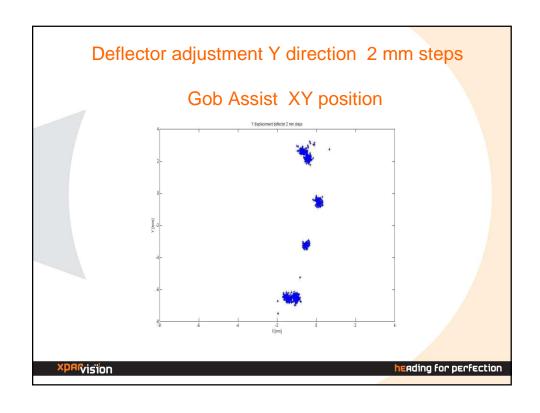


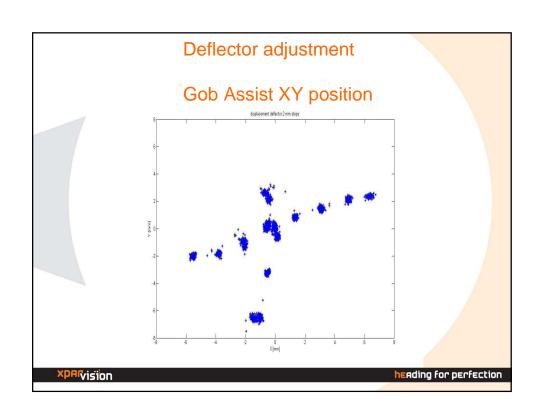


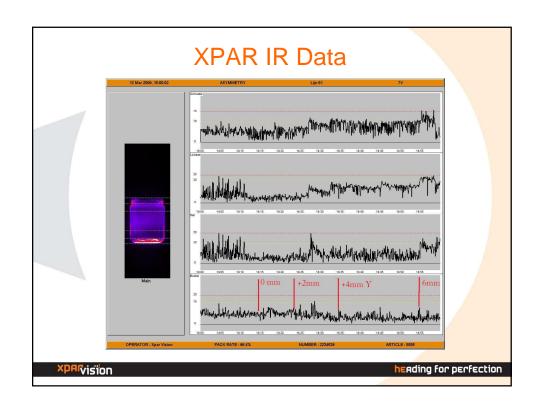


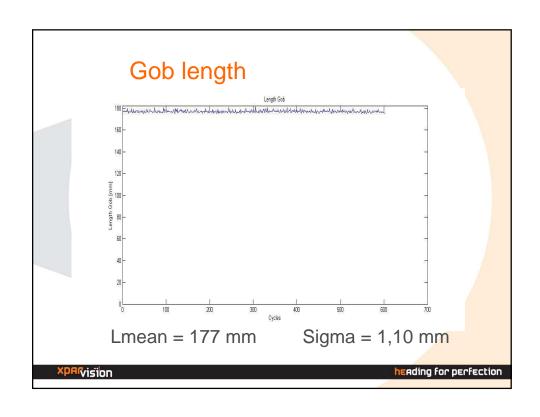


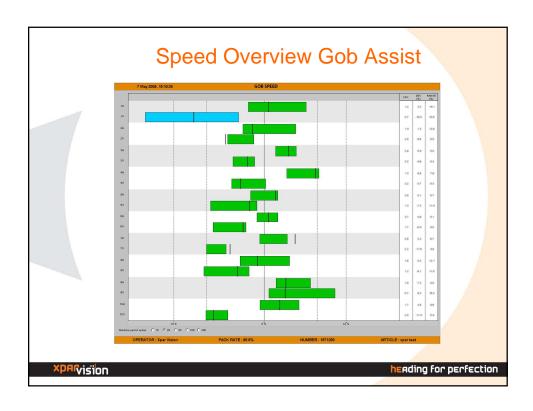












Summery Gob Assist

- Now you have access to factual information on gob loading
- Easy finding, maintaining and retrieving optimal gob loading
 - → improve gob loading process
- Reduce defects due to loading
 - → improve product quality

Gob Assist: an indispensable tool for the container glass industry!

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Questions?

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