

Glassman Asia
September 20th 2023

1. From manual blanks swabbing to robot blanks swabbing

On the market there are several swabbing-robot suppliers.

2004



2013



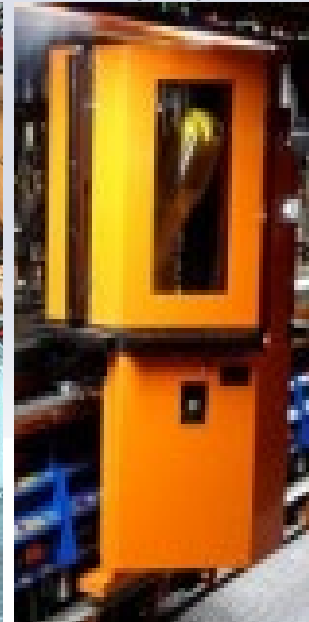
2016

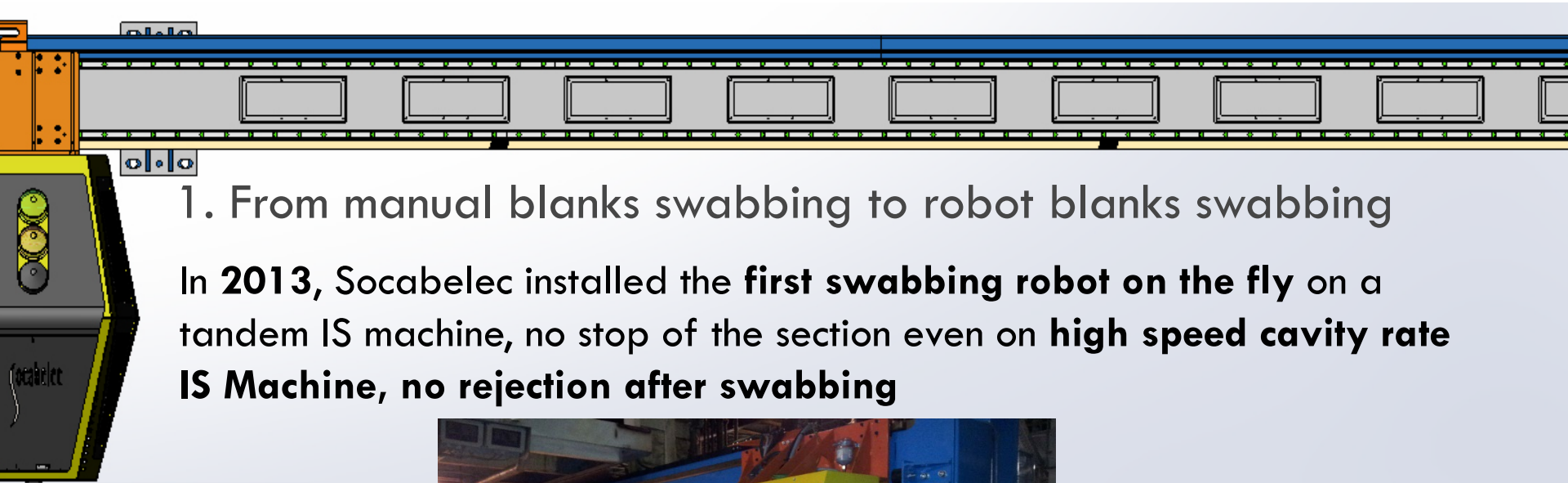


2018



2018

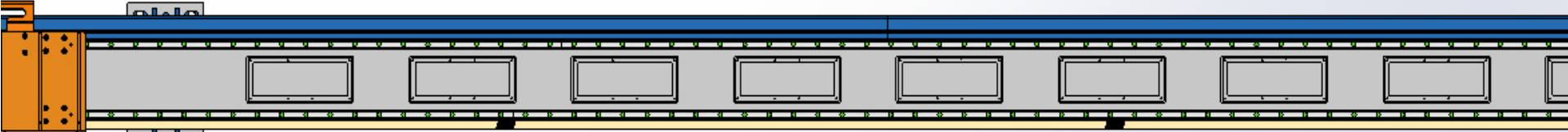




1. From manual blanks swabbing to robot blanks swabbing

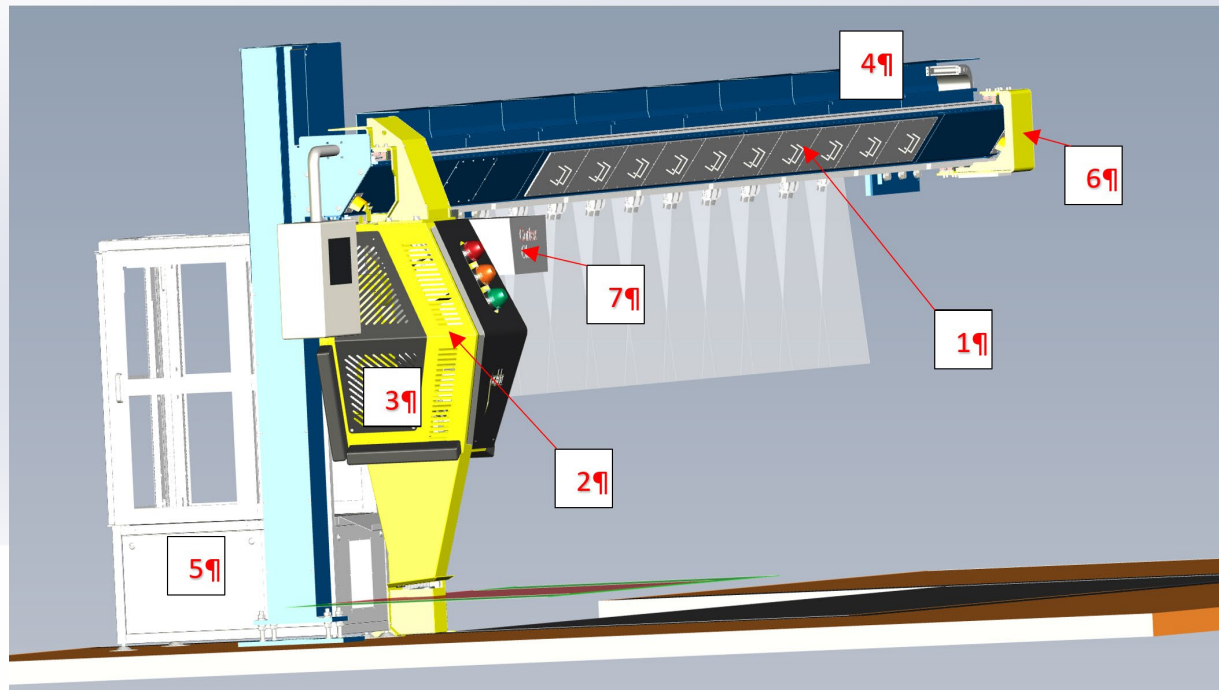
In **2013**, Socabelec installed the **first swabbing robot on the fly** on a tandem IS machine, no stop of the section even on **high speed cavity rate IS Machine, no rejection after swabbing**

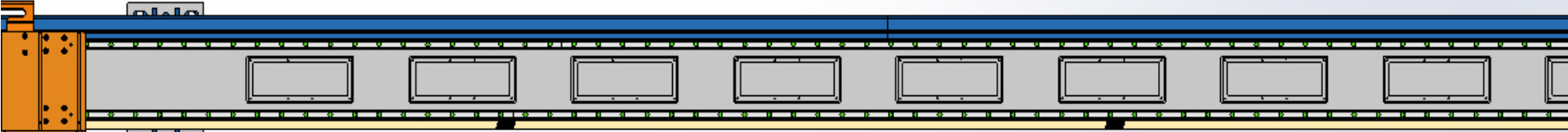




2. Swabbing Robot

1. Scope of supply





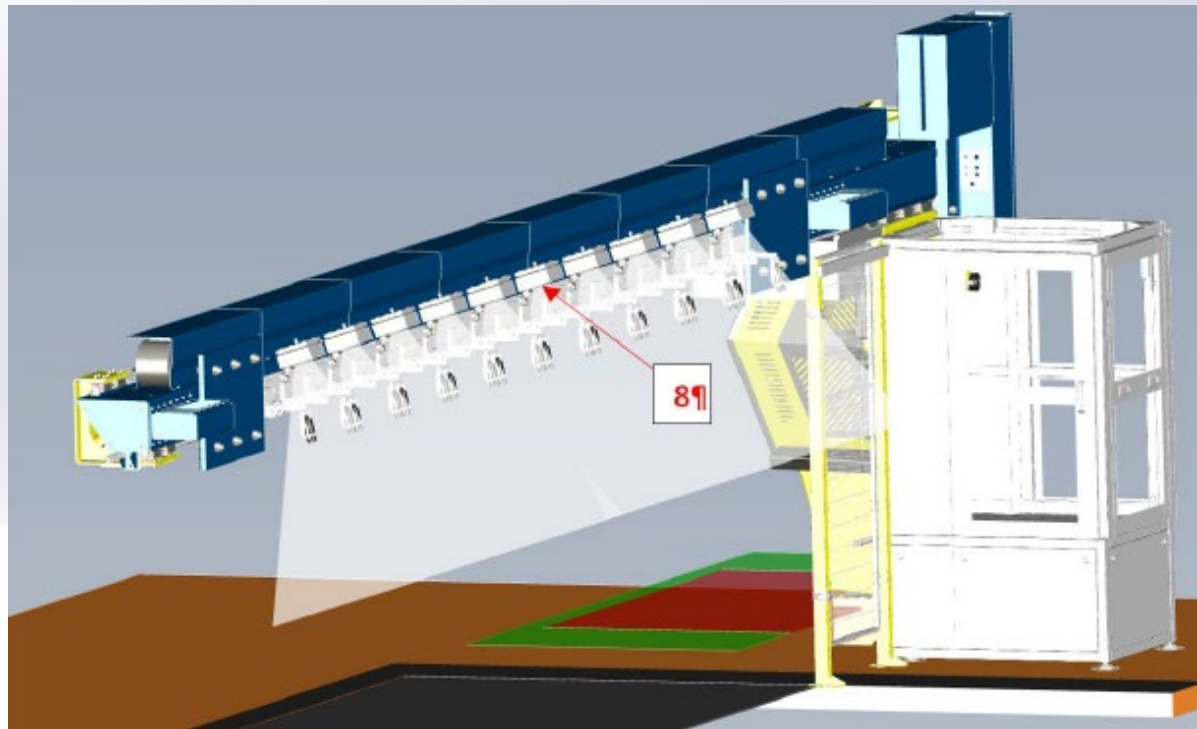
2. Swabbing Robot

1. Scope of supply

LED 3 colors

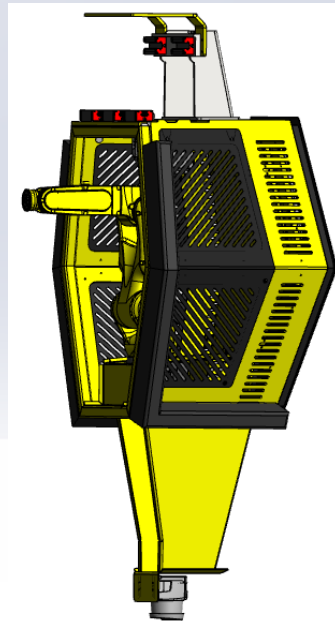
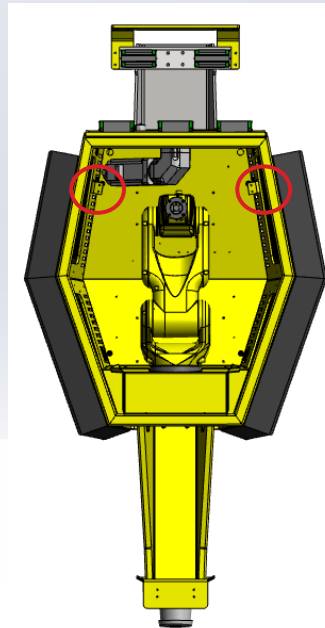
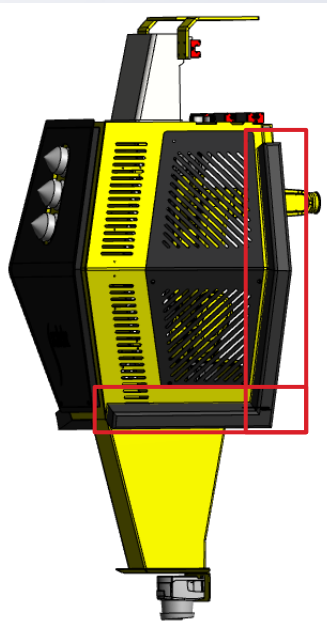
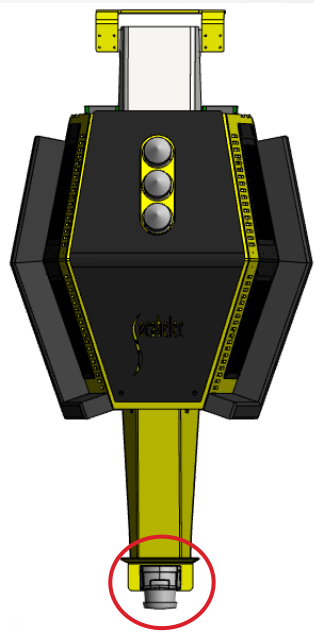
- White
- Green
- Red

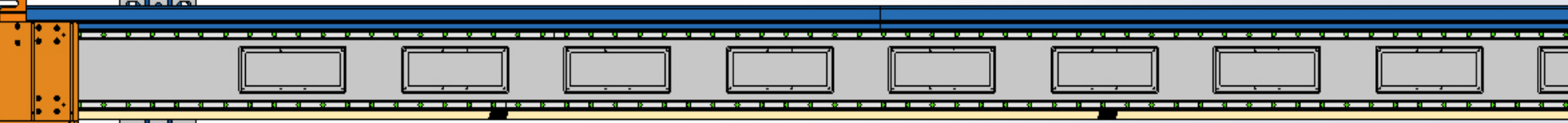
Giving the status of the sections



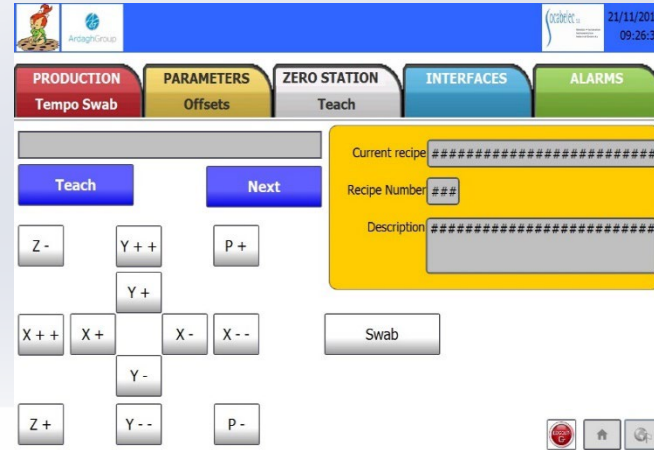
2. Swabbing Robot

robot and cage = Safe-Robot, work safely together with operators



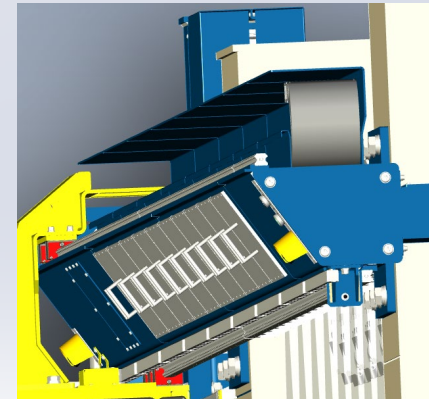


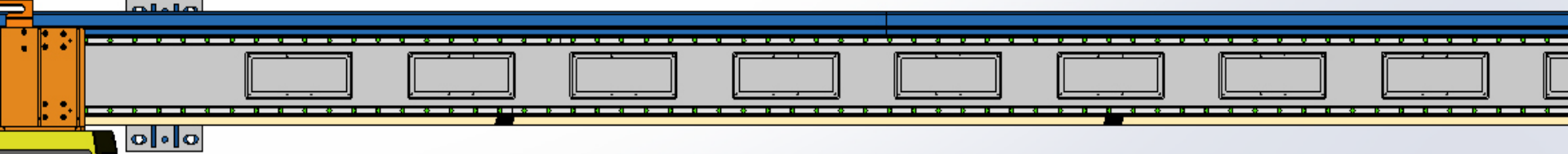
2. Swabbing Robot: The Zero Station = maintenance and new job recording



2. Swabbing Robot

The robot hanging on the robot beam (overhead manifold)



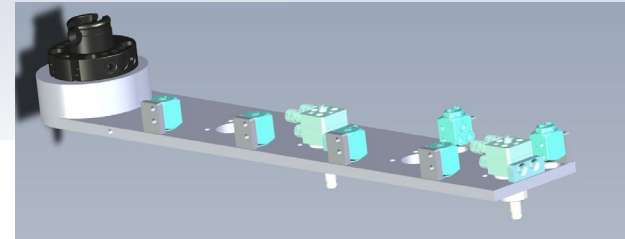


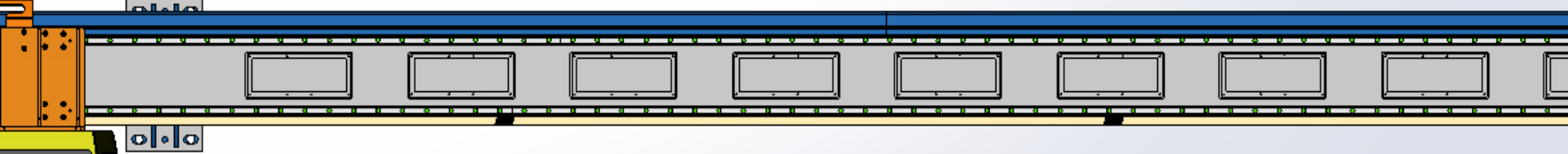
2. Swabbing Robot

Neckring Swabbing and special development **Hybrid Tool**:

- **Baffles** spray,
- **Blanks** sprayed in **two points** along the blanks
- **Neck ring** sprayed inside

1. **Hybrid Tool**, with all functions of sprays as been installed **successfully in South Korea** on **2 NIS Emhart QG** IS machines



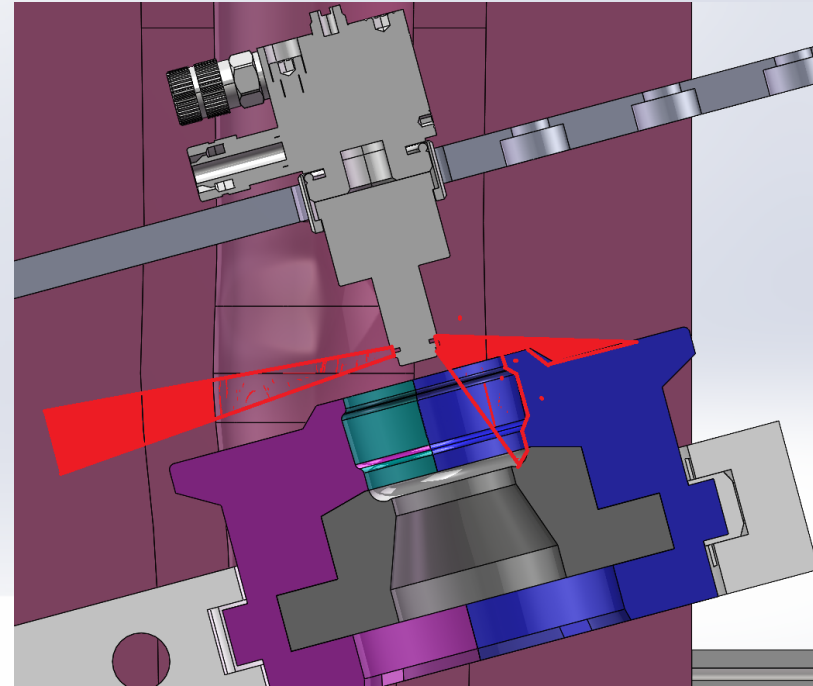


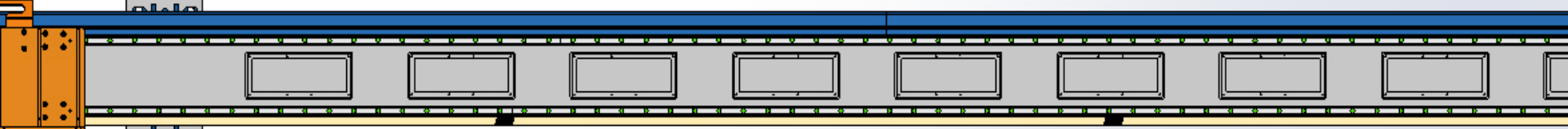
2. Swabbing Robot

Neckring Swabbing and special development **Hybrid Tool:**

- **Baffles** spray,
- **Blanks** sprayed in two points along the blanks
- **Neck ring** sprayed inside

1. **Angular stop of the invert** to avoid contamination of the plunger, works **with servo invert**

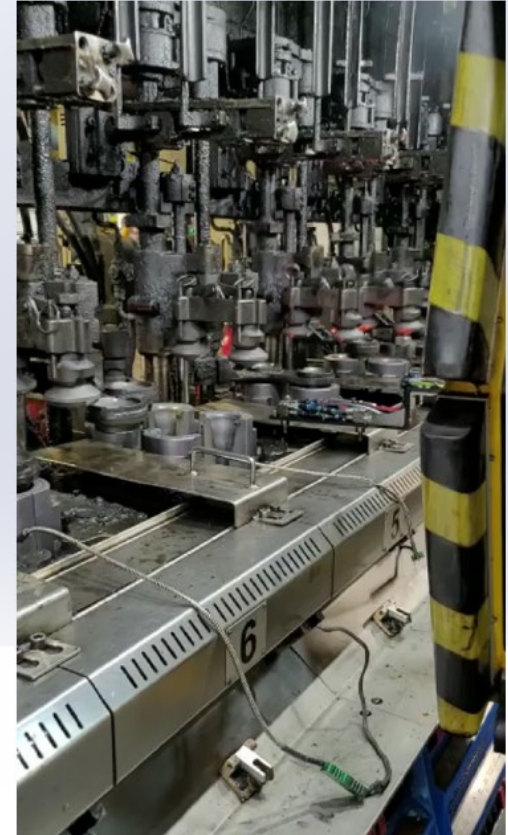


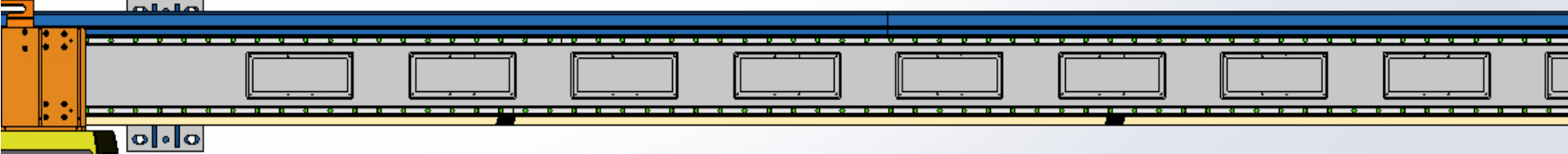


2. Swabbing Robot

Neckring Swabbing and special development **Hybrid Tool:**

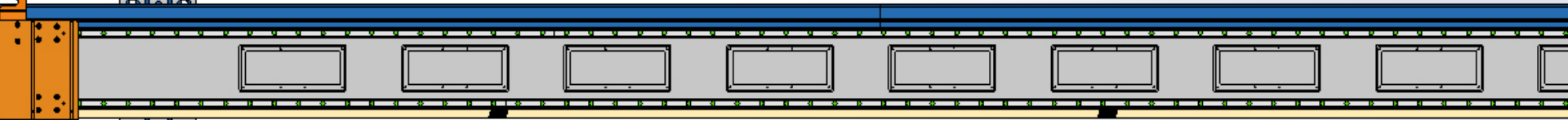
- **Baffles** spray,
 - **Blanks** sprayed in two points along the blanks
 - **Neck ring** sprayed inside
1. Angular stop of the invert to avoid contamination of the plunger, works with servo invert





2. Swabbing Robot: The Zero Station, manual quick change tool





2. Swabbing Robot

Neckring Swabbing and special development:

2. Automatic Dual tool changer:

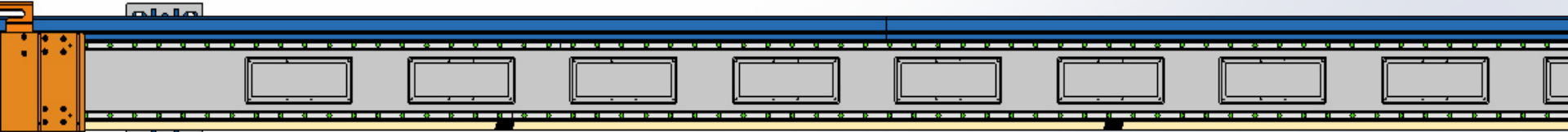
- one tool dedicated to swab the **blanks on the fly**
- one long nozzles tool dedicated to swab inside the Neck-Ring.



2. Swabbing Robot

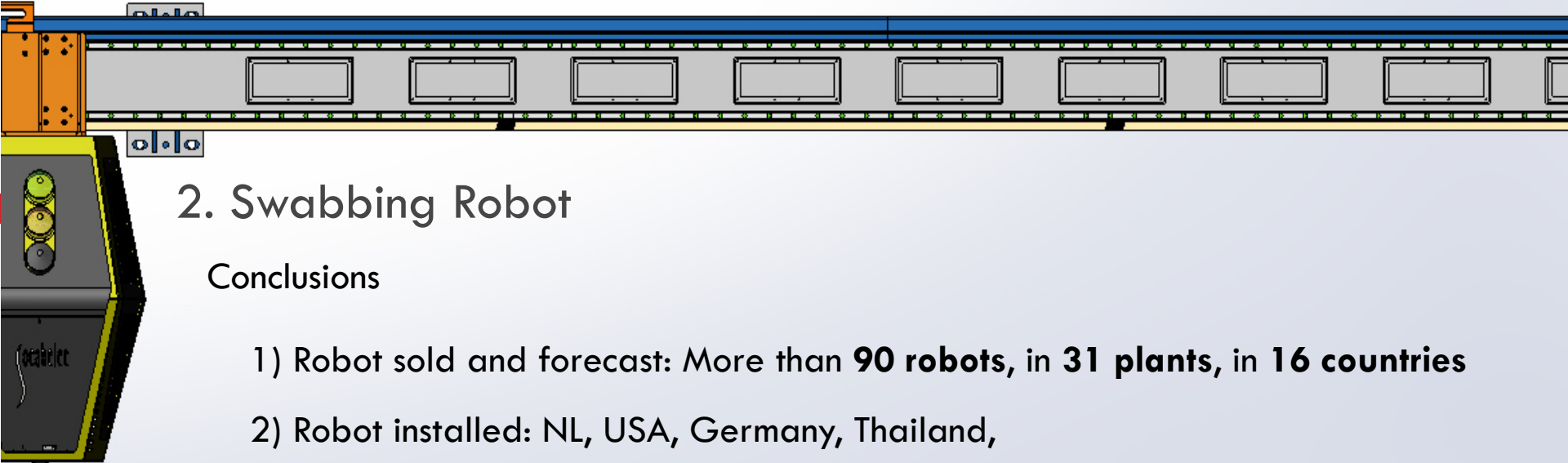
- Swabbing-robot and Cortex BlankWatch
- On same track device measuring Gob loading and temperature of blanks and plungers.





2. Swabbing Robot

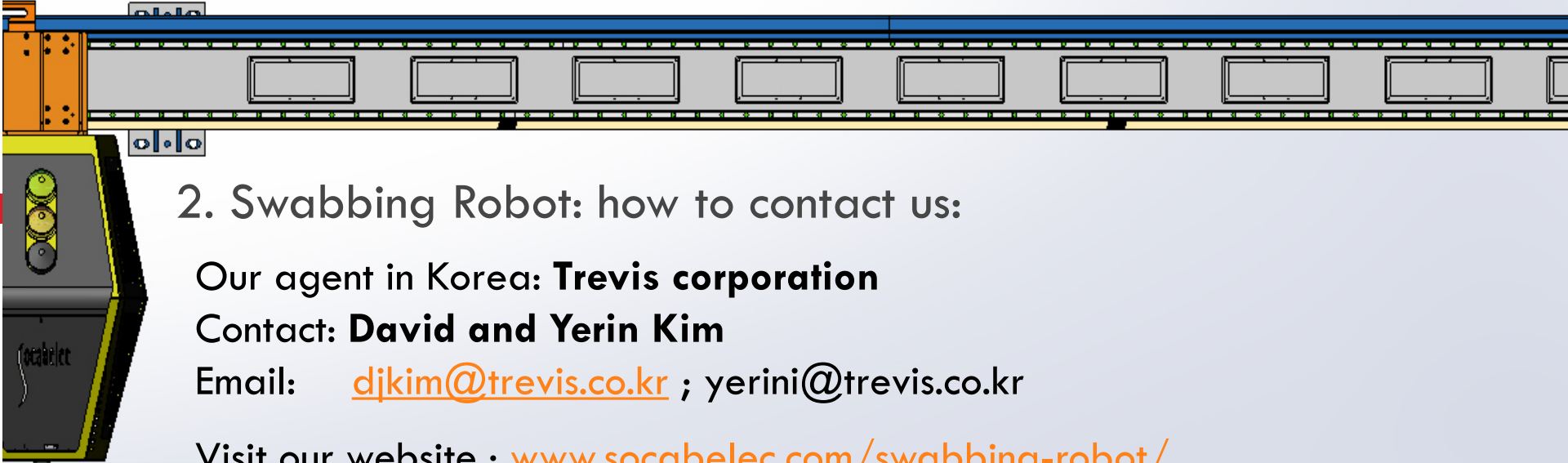




2. Swabbing Robot

Conclusions

- 1) Robot sold and forecast: More than **90 robots**, in **31 plants**, in **16 countries**
- 2) Robot installed: NL, USA, Germany, Thailand, Australia, France, Sweden, UK, Portugal, Poland, Mexico, Northern Ireland, China, Russia, South Korea, Spain...
- 3) **New robot** on development for **2025**.



2. Swabbing Robot: how to contact us:

Our agent in Korea: **Trevis corporation**

Contact: **David and Yerin Kim**

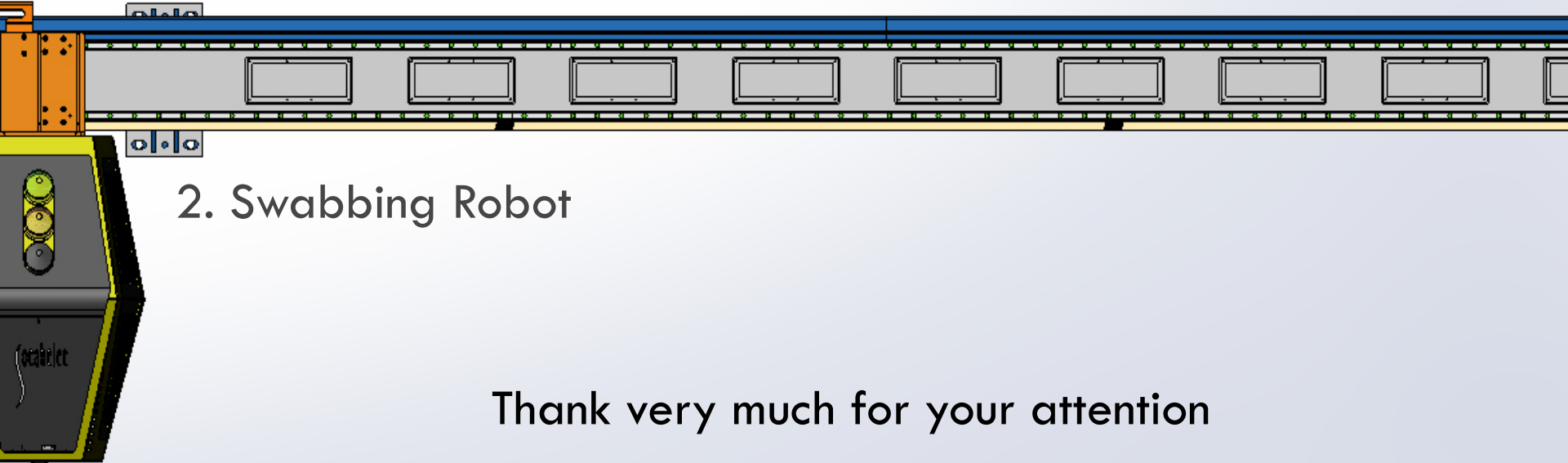
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2. Swabbing Robot

Thank very much for your attention