



INNOVINNPROM

Industrial automation



The Project of Developing an Automatic Capsule for Bulk Products and a Module for Automatic Capsule Loading/Unloading for air Tube Systems



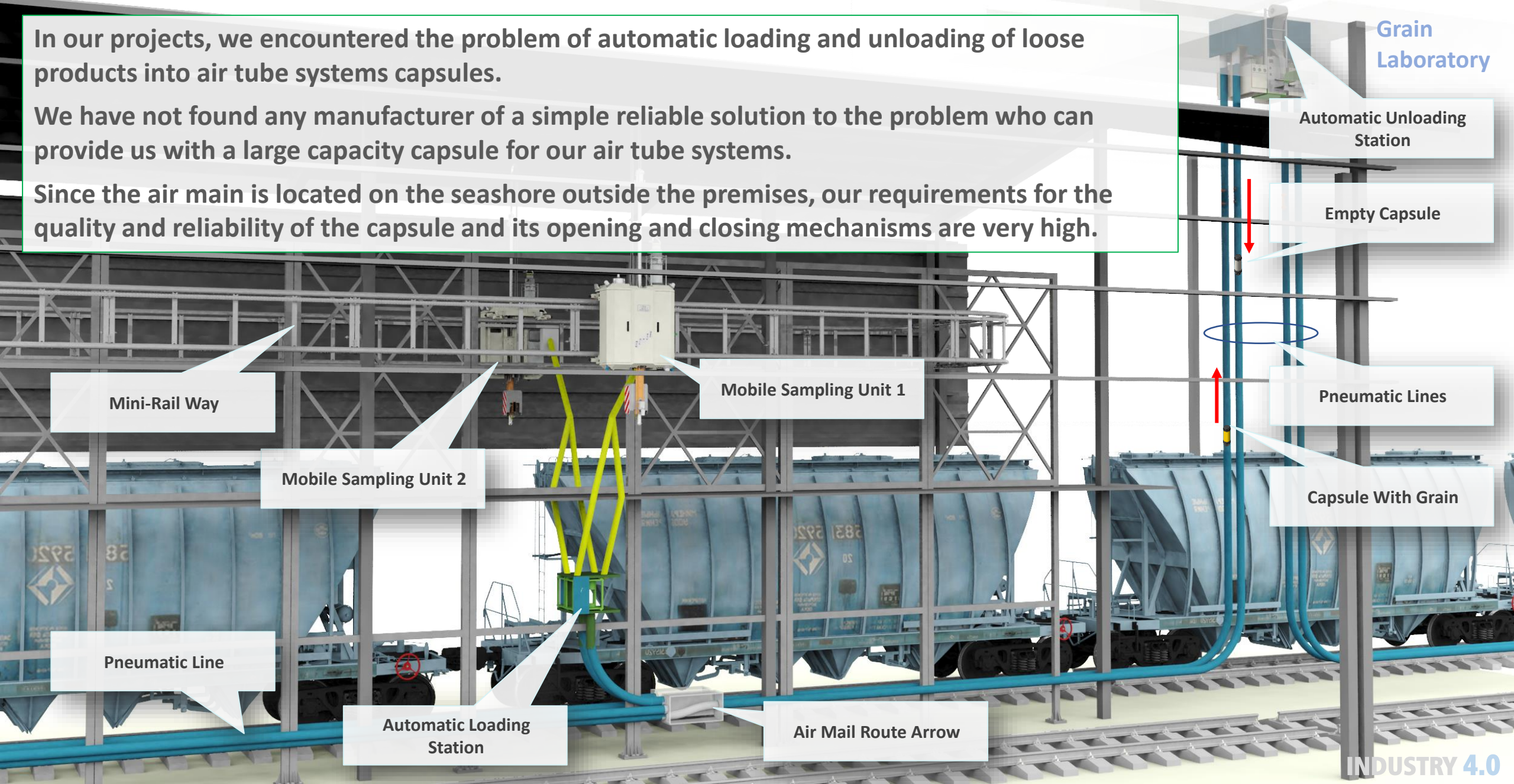
Vinnitsa - 2023

Our Current Project: Hopper Railway Car Robotic Grain Sampling Systems

In our projects, we encountered the problem of automatic loading and unloading of loose products into air tube systems capsules.

We have not found any manufacturer of a simple reliable solution to the problem who can provide us with a large capacity capsule for our air tube systems.

Since the air main is located on the seashore outside the premises, our requirements for the quality and reliability of the capsule and its opening and closing mechanisms are very high.



Mini-Rail Way

Mobile Sampling Unit 2

Mobile Sampling Unit 1

Pneumatic Line

Automatic Loading Station

Air Mail Route Arrow

Grain Laboratory

Automatic Unloading Station

Empty Capsule

Pneumatic Lines

Capsule With Grain

Therefore, we created a new team of designers to develop and test capsules for bulk products and automatic modules for opening and closing them. The team designed, manufactured, prototyped and tested a capsule that met all of our most stringent requirements.

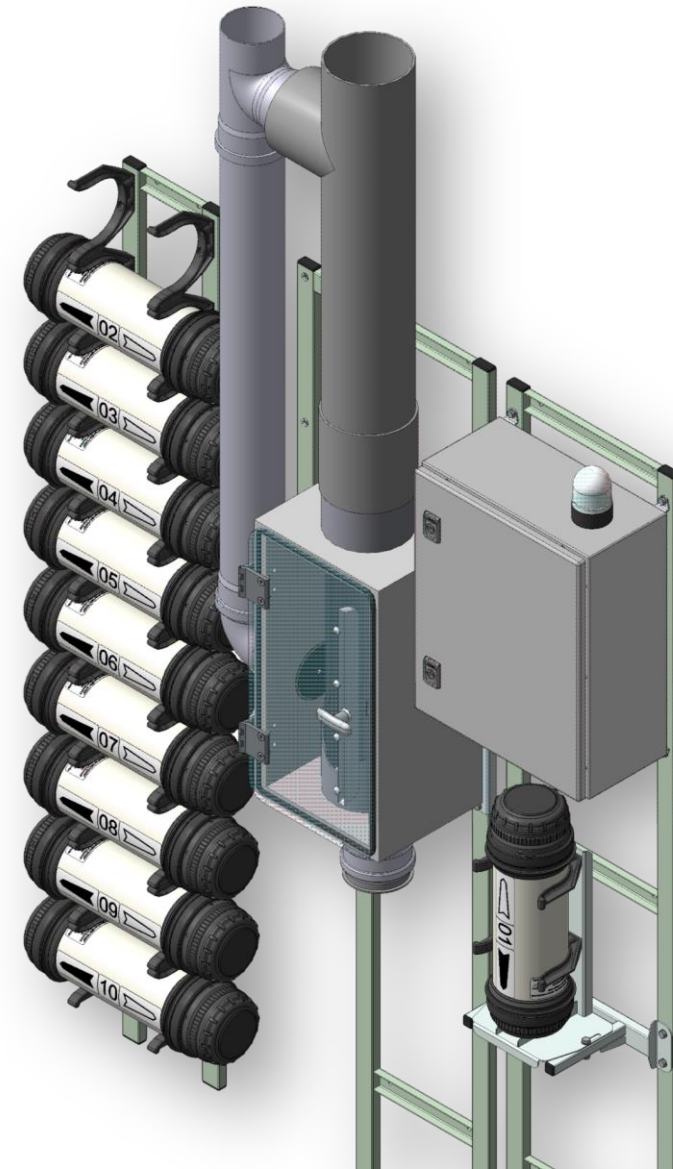
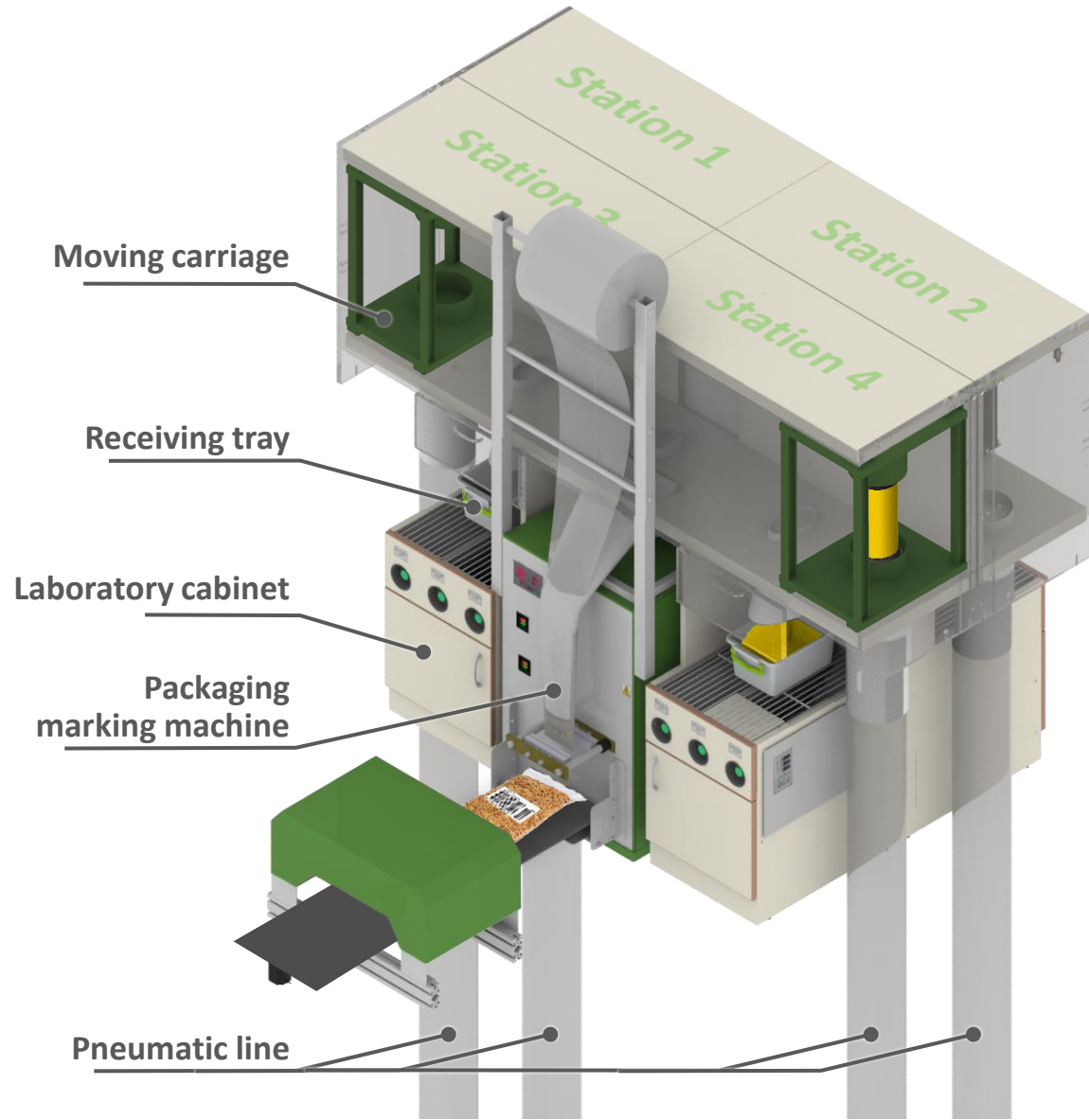
The capsules are equipped with an automatic opening and closing mechanism with a magnetic lock, as well as an RFID identifier.

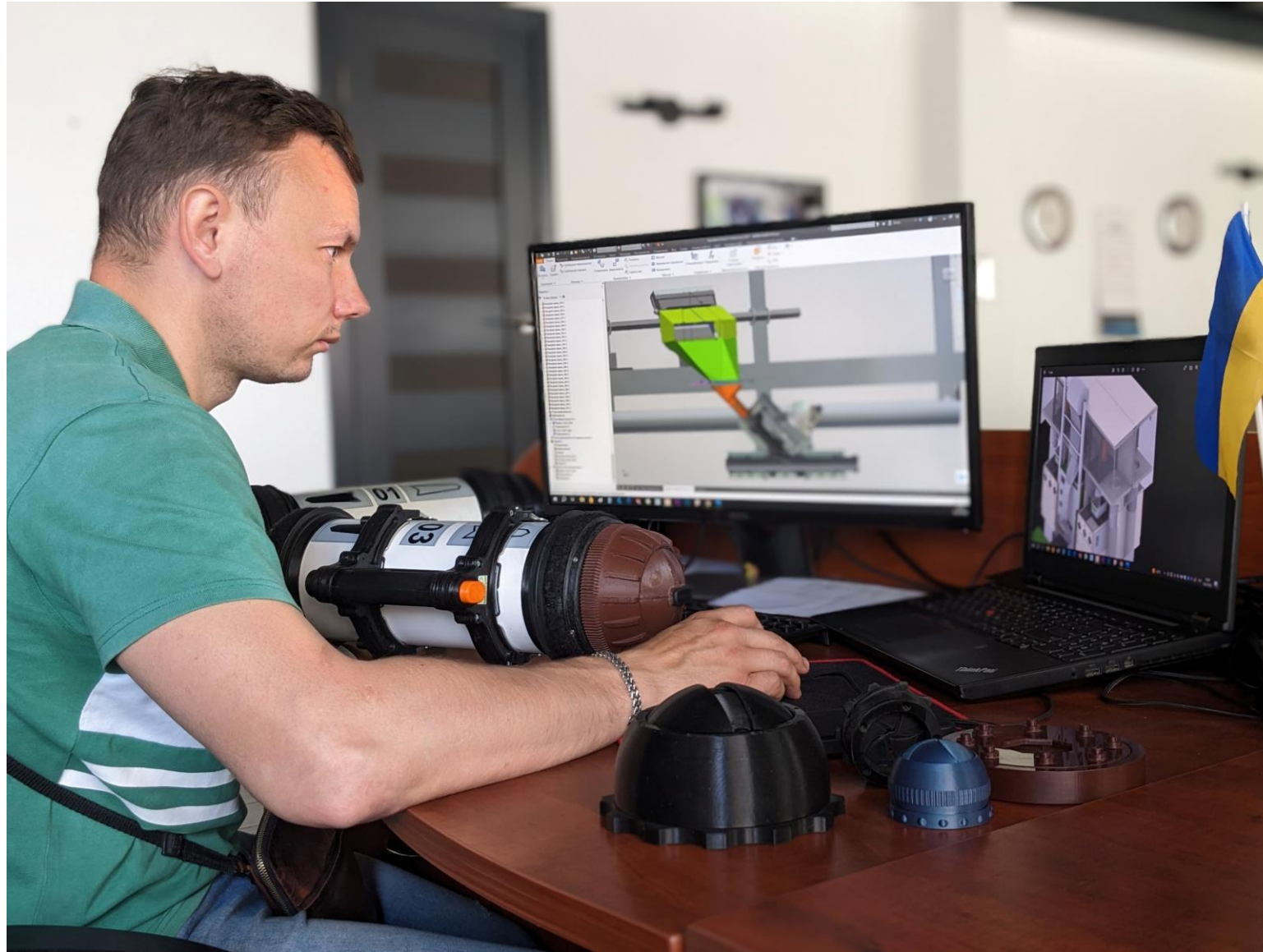
The capacity of the capsules is 5.4 liters.



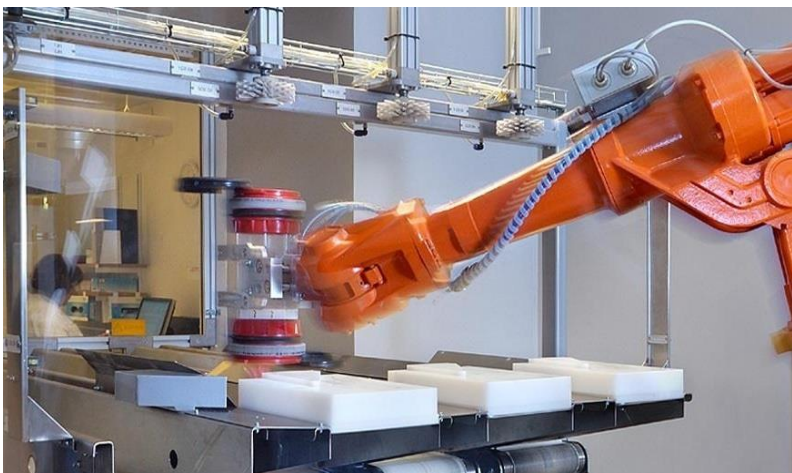
Receiving Unloading Station

Reliable **modules for opening and closing capsules** should be easily integrated to automatic stations for loading and unloading bulk products. In addition, the module must ensure reliable reading of RFID tags.



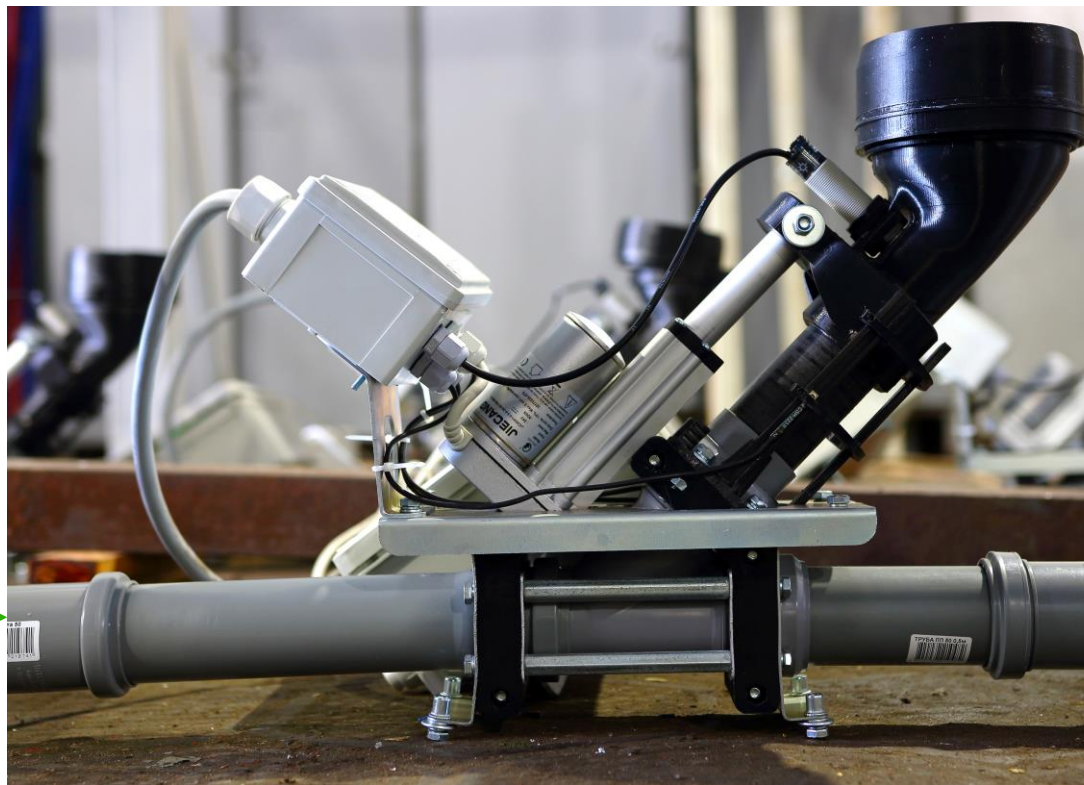


Since our customers do not want to pay for development, but want to buy ready-made solutions, we are looking for investment to develop and manufacture **reliable modules for automatic opening and closing of capsules.**



Some manufacturers offer a very expensive solution that has high requirements for operation and maintenance and cannot work in harsh environmental conditions.

We have developed and are testing several concepts of an engineering solution for automatic loading and unloading of capsules



Expected Prospects



We guarantee that with good investment and support we will be able to implement this project. The solution can be scaled for automated warehouses and stores for rapid shipment of bulk and small products.

Project Team

[Company website](#)

[Project website](#)



Marina Skydan
CEO, co-owner



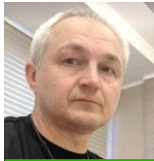
Yurii Skydan
CTO, PhD, professor, founder, co-owner



Evgeny Byendyak
Head of the design department



Oleksandr Radovets
Programmer Developer



Andriy Lukhverchyk
CINO



Yurii Hryshchuk
Chief Designer

