

# Stora Enso Packaging Automation

Complete solutions for an efficient packaging flow



storaenso

## Packaging automation made easy

Efficient automation starts with good box design. And the full potential of a packaging is attained using a reliable and well thought-out packaging solution. At Stora Enso Packaging Automation, we know everything that's worth knowing about both of these parts. This results in an unsurpassed whole for you, where we find a solution that is suited to your products and your packaging process.

Our assortment contains everything from box formers and case packers to palleting robots, pack cells and packaging machines. This breadth is one of the strengths of our offering. Another is our long experience of combining the various units with one another.

But let us start from the beginning: your product. Everything else, we solve together with you.







## One machine. Or very much more.

Our customers come from a number of different industries. The needs vary and each product to be packed has its own requirements and characteristics. In order to be able to provide the right packaging solution we have therefore the broadest commercially available range of packaging machines. Sometimes a basic solution is wanted, for example, using a case packer and a box former. Other times it is a total solution, where a large flow has to be automated, that is of interest.

Whatever the needs, we find the right answer by a thorough examination of the product, the distribution chain, the size of the factory and all other factors that influence the packing process. In this way, packaging and automation become an efficient whole. As our customer, this entirety also includes Stora Enso's global strength, which means that you always have a local contact to whom you can turn to.

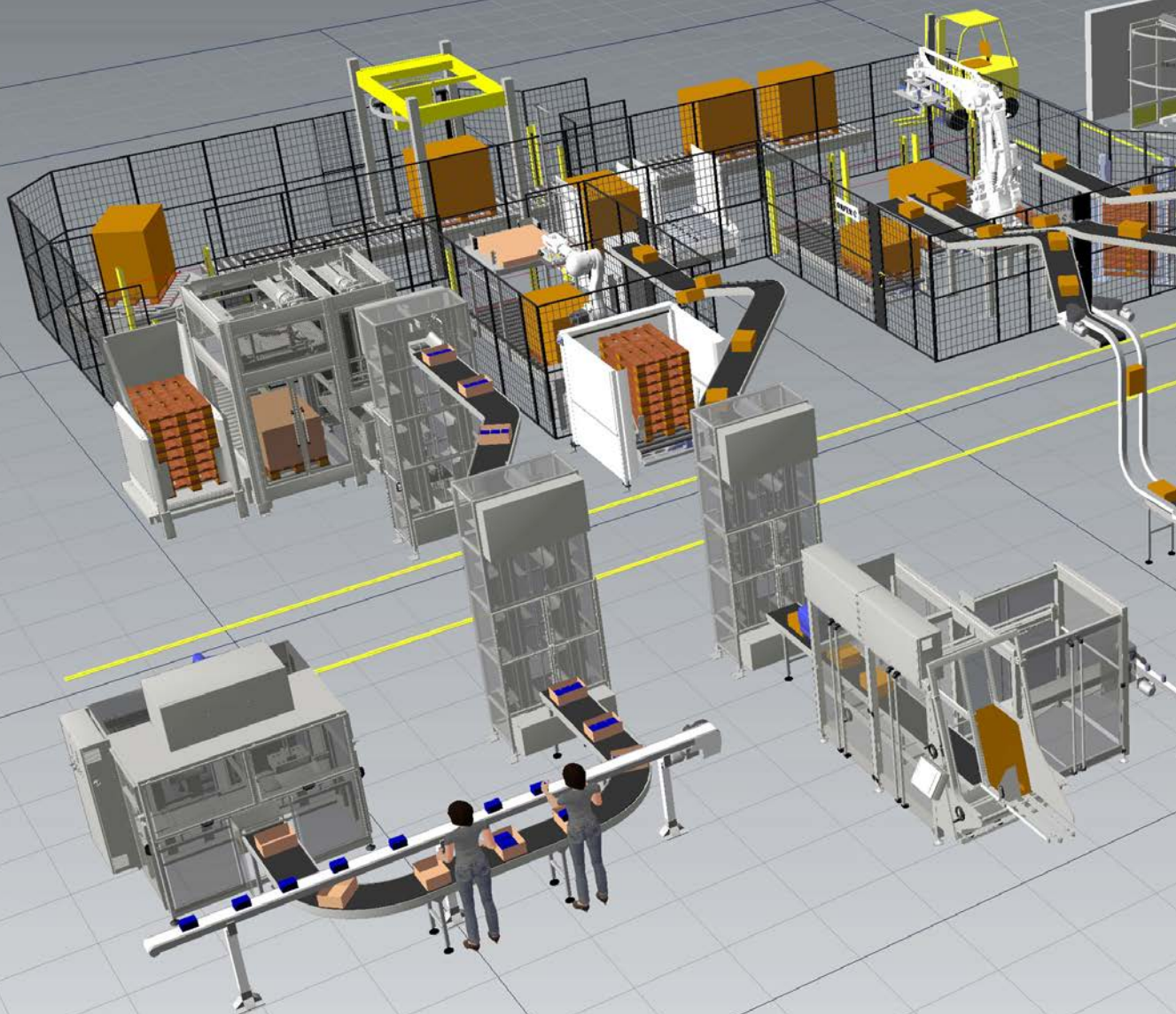


## High availability.

Our assortment contains box formers, case packers, robot cells, palleting machines and so very much more. They all contribute to an automation that is fast, flexible and cost-effective. In addition, when our project team have developed a solution for your particular operation, you can be certain that you are going to save time, energy and sweat.

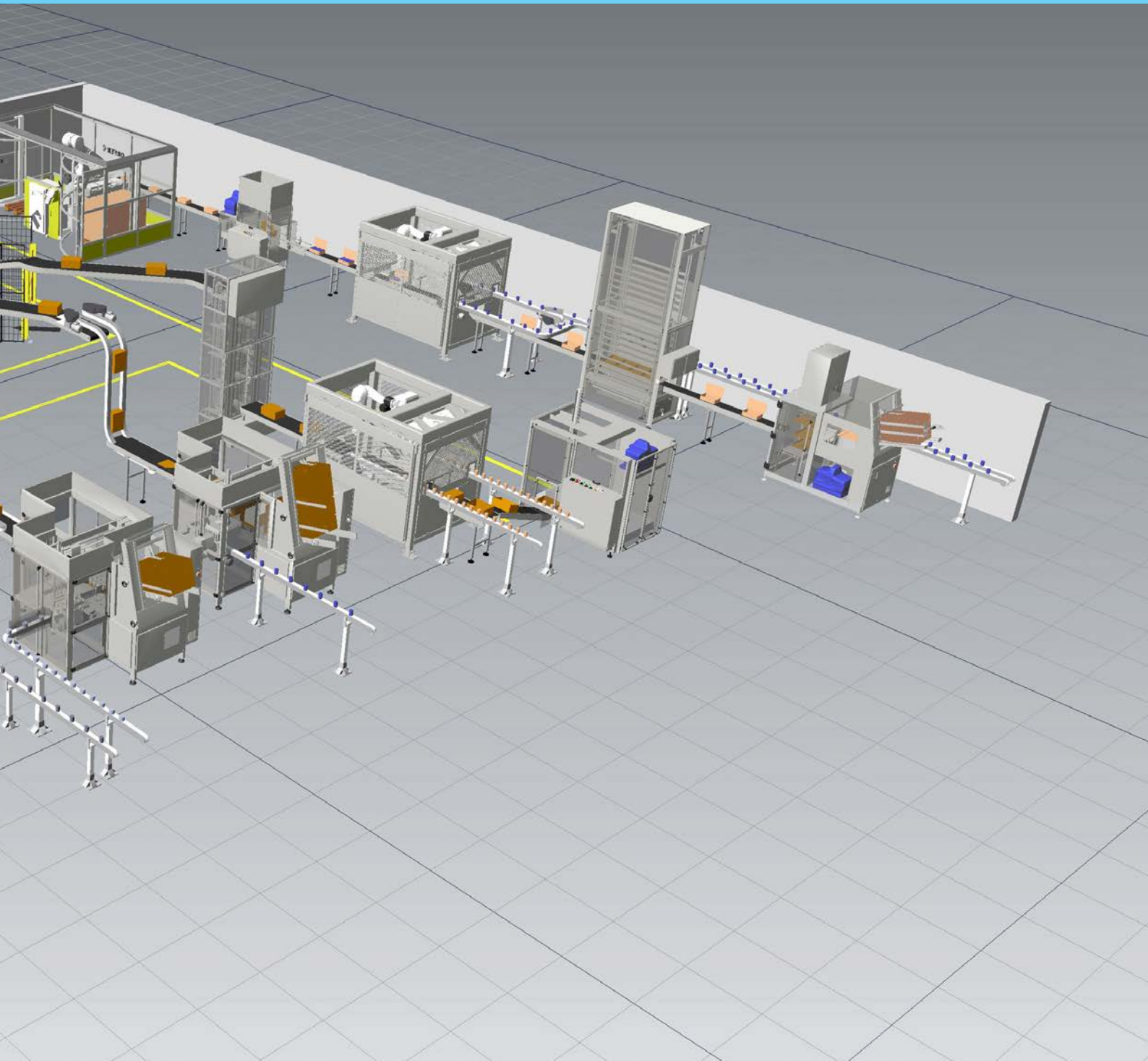
Moreover, we bring very high availability to your packaging line thanks to our availability guarantee, which guarantees that the machines do not stand still for long during working hours. The guarantee is unique for its type because it even includes the packaging material.

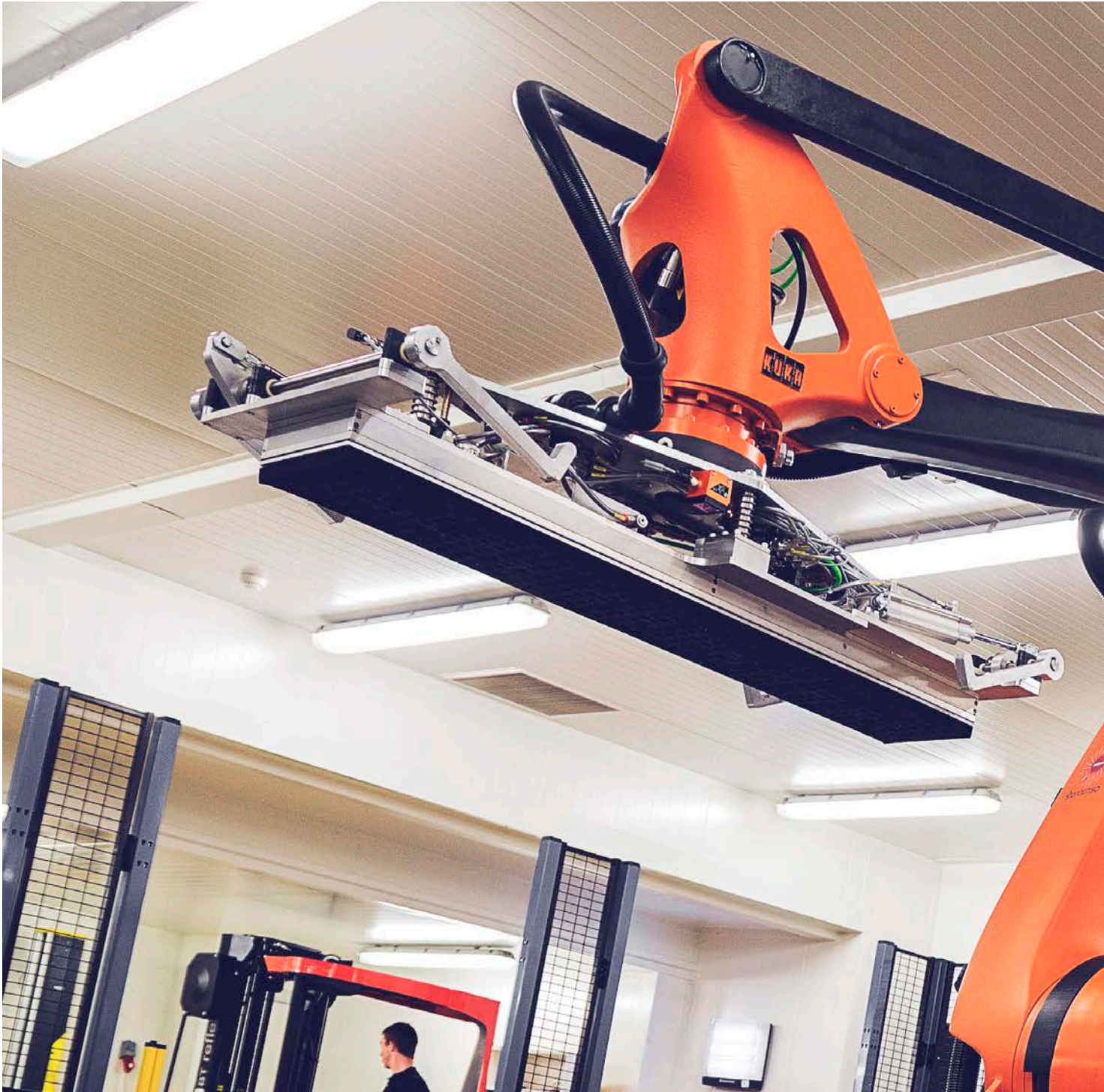
We have put  
good solutions  
in systems.



What can you demand from your packaging solution? A great deal, if you ask us. Nevertheless, when all the requirements have been met and all the adjustments have been made to suit your particular product, you really do not need to think that much more. Because we can promise that you have obtained an automated system that is extremely reliable and easy to control.

Moreover, already during the installation you will know how everything is going to work, thanks to 3D drawings. And once the system is running, we can conduct follow-ups by measuring the availability and production data history and fault history.





## Build for change.

Things change – sometimes frequently, sometimes rarely. However, generally many packs have a relatively short life cycle. Every now and again, our customers need to change the packaging for various reasons and thus, the packaging solution also needs to be changed. For this reason, we always think one step ahead and design our solutions so they are easy to modify onsite at your place.





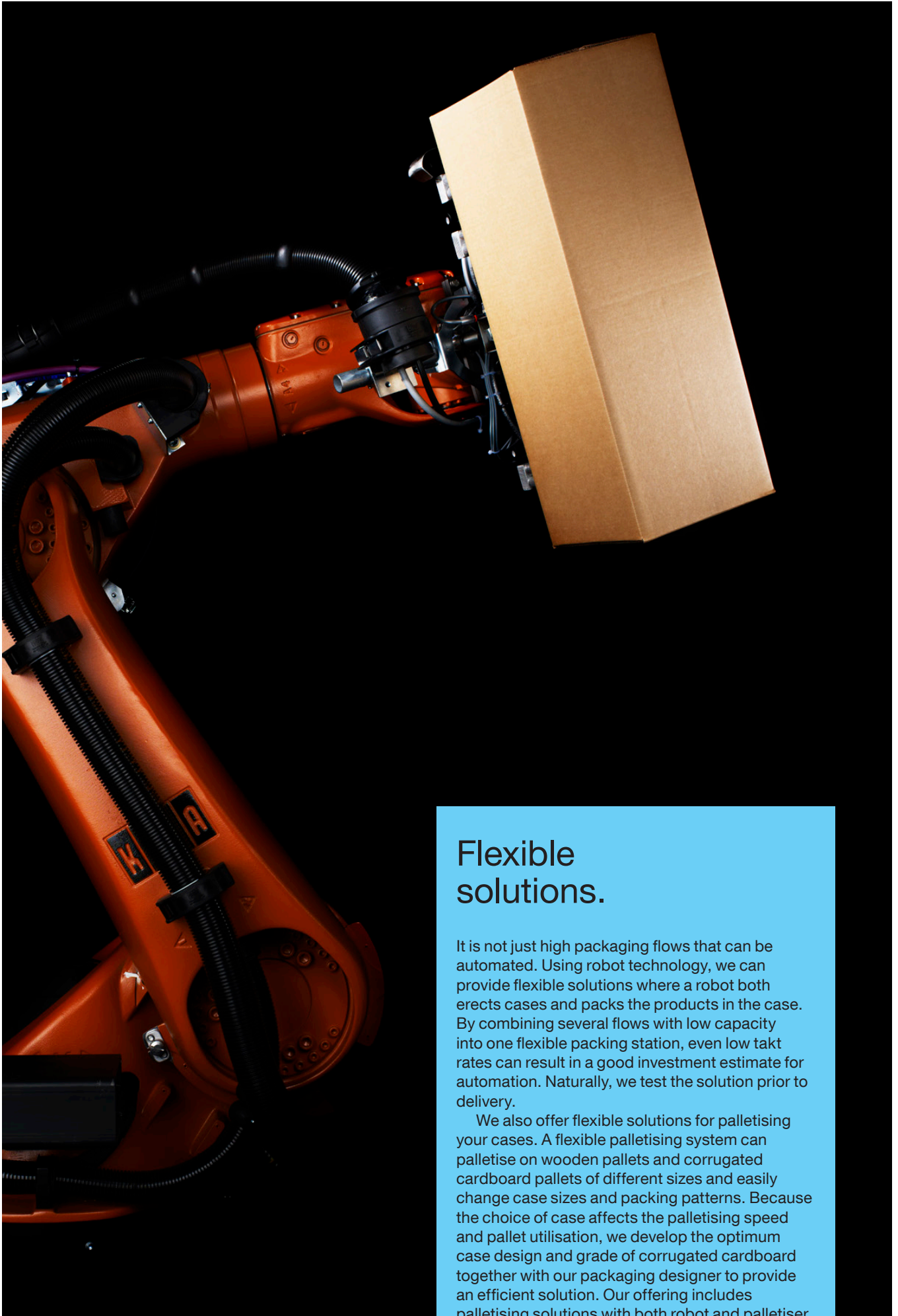


## Inspected and ready.

We do not let our solutions go when they are finished. First, together with you and your machine operators, we check that the machines and materials function perfectly. If any detail does not function optimally, we will fix it before delivery.

During the test run, you receive, of course, all the system documentation and we provide a total function guarantee. When it is time for installation on your site, everything is carried out by our automation engineers. They also ensure that all auxiliary equipment, such as robots, tracks, palleting equipment, stretch wrappers and labelling is in place.

Then, the only thing left to do is to start the system, which can be done straight away thanks to the careful preparations and checks.



## Flexible solutions.

It is not just high packaging flows that can be automated. Using robot technology, we can provide flexible solutions where a robot both erects cases and packs the products in the case. By combining several flows with low capacity into one flexible packing station, even low takt rates can result in a good investment estimate for automation. Naturally, we test the solution prior to delivery.

We also offer flexible solutions for palletising your cases. A flexible palletising system can palletise on wooden pallets and corrugated cardboard pallets of different sizes and easily change case sizes and packing patterns. Because the choice of case affects the palletising speed and pallet utilisation, we develop the optimum case design and grade of corrugated cardboard together with our packaging designer to provide an efficient solution. Our offering includes palletising solutions with both robot and palletiser.

## An extraordinarily versatile service.

The fact that we provide both packaging systems and corrugated cardboard is one major reason why we are appreciated by our customers. One contact for two areas – it can't be simpler.

The same applies if you contact our automation engineers when something needs to be adjusted. They are qualified automation engineers and they are trained in programming and PLC, as well as in corrugated cardboard and packaging. Thus, they can quickly check whether a fault is due to the material or the machine.

### Top condition with secure agreement

We know what it can cost in money and time when a machine stands still. Our service agreement has been designed to minimise faults and to ensure everything runs as it should. Based on your production conditions, you

decide if we will make one or up to four service visits per year. You then obtain a thorough review of your machines, where we tune the functions, replace worn parts and provide a status report. Should there be an acute problem, we troubleshoot the control system and electrical equipment, as well as mechanical maintenance and repair.

### Customised training

Our packaging systems are designed to make them relatively easy to use. Nevertheless, there is still a need for training in order for it to be possible to use the machines' functions in the best way. For this reason, we offer customised courses for the operators. The focus is on efficient operation, reconfiguring and daily maintenance. The training can also be adapted for technicians and the focus is then on troubleshooting, maintenance and adjusting the machines.



## Industry 4.0

### Our machines are smart enough to ask for help

The market wants high outcomes from their investments of machines that demands smarter, digital solutions for packaging automation. Together with Österbergs Förpackningsmaskiner and Schneider Electric, we have developed a system that compiles and reports data on machine productivity and component status.

#### With a connected machine you get:

- system for preventive maintenance
- push notification or e-mail when it is time for service or replacement of components
- less machine downtime through planned maintenance, resulting in higher production efficiency

Talk to us if you want more information about Industry 4.0 and how it can support your business.



Get instant machine notifications

Stora Enso is a leading provider of renewable solutions in packaging, biomaterials, wooden constructions and paper on global markets. Our aim is to replace fossil based materials by innovating and developing new products and services based on wood and other renewable materials. We employ some 26 000 people and are publicly listed in Helsinki (STEAV, STERV) and Stockholm (STE A, STE R).