







## Vision for the future

THE ABILITY OF THE EYE TO PERCEIVE AND SORT INFORMATION IS UNSURPASSED.

WE ACHIEVE THE SAME PRECISION AND FLEXIBILITY BY COMBINING OUR VISION SYSTEM WITH A ROBOT,  
SO THAT A NUMBER OF DIFFERENT UNSORTED COMPONENTS CAN BE EASILY FED INTO AN AUTOMATED PROCESS.

**ROBOTS THAT CAN SEE** the components to be picked up. Standard machines that can feed virtually any component and where you yourself can easily teach the robot to pick up new components in an intuitive and obvious way – what opportunities does that give you?

Designing precisely this solution is a challenge that SVIA has accepted. It is a vision that forms the basis for all our development and characterises all our machines. Our aim is to package advanced technology in user-friendly standardised machines.

Within automation, properties such as flexibility are often neglected in place of speed and precision, but you do not need to compromise. Instead, we combine precisely these properties! The basic principle is that components are fed towards a camera, where our vision system, PickVision, identifies the position of the component. A robot can then pick up the component directly with high precision and feed it on, correctly positioned, to the next stage of the process.

**FLEXIBILITY WITH SEEING ROBOTS** means that the shape of the components and the material used are important. Our machines function just as well as for castings, plastic and sheet metal as

for rubber components and can be used to automate a number of different applications, such as servicing processing machines, welding, assembly or control measurement. Whereas it was previously not possible to automate due to short runs, many variants or huge demands for future flexibility, a vision-based robot system is now the right choice.

**THE CHALLENGE** is in combining user-friendly technology, speed and precision. Thanks to a great spirit of entrepreneurship and innovative technology – the heart of which is our vision system – we have established ourselves as Europe's leading supplier of flexible material handling systems with seeing robots in a short space of time.

**WE OFFER** complete solutions based on standard machines, but where the link to each customer's application is unique.

We currently have more than 200 systems in operation, half in Sweden and half around the rest of Europe. At the same time, an increasing number of people are discovering how our standardised modules offer profitable automation.





## Flexibility, speed and precision

**EXPERTISE WITHIN VISION TECHNOLOGY** is the starting point for our activities. Several employees have worked on development of vision systems throughout their professional career. Getting to specialise in robot guidance, with the aim of developing the world's best system for precisely this application is something we view as a stimulating challenge.

The heart of our machines is our in-house developed vision system – PickVision. New components can be learnt by the system in just a few minutes and the ease with which various new components can be added is regarded by many customers as an important development. PickVision is a system for all users and you do not need to be a vision engineer to be able to work with the system. The close link to the robot and gripping are also elements that make PickVision unique.

**THE TECHNOLOGY IS A BREAKTHROUGH**, where you previously needed days or weeks for a changeover, it now takes just a few minutes! As the position of the component is identified using the camera system, no mechanical changeovers are needed when changing between different components in production.

The vision system is part of the machine in much the same way as vital elements such as the robot and feed. In other words – SVIA is not just a vision supplier. We supply complete, well-tested machines where functionality and user-friendliness are put firmly at the centre.





# MultiFlex™

With a MultiFlex system it is possible to load entire pallets of components that are then tipped into the machine. The components are fed, separated and picked entirely automatically by the robot. The MultiFlex is our largest fully-automatic feeder. It can handle both larger components and short cycle times. The choice of robot is, of course, adapted to the needs of the customer regarding reach, cycle time and application.



Components up to 160 mm and max. 3 kg. Cycle times down to 2,5 seconds.

## MiniFlex™

The MiniFlex is a compact feed system intended for smaller components. The entire machine is built on a single base plate, which makes installation quick and simple. The MiniFlex is a very economical option which normally can offer very short delivery times.



Components up to 80 mm. Cycle times down to 2.5 seconds.

## MicroFlex™

The MicroFlex is SVIA's quickest feed system adapted for very short cycle times – down to 0.5 seconds with the right choice of robot. The MicroFlex is robust, compact and prepared for small six-axis robots, Scara robots and suspended picker robots for ultimate performance.



Components up to 70 mm. Cycle times down to 0.5 seconds.

# FeedLine™

The FeedLine is a semi-automatic system, where the components are placed manually on a conveyor belt. The conveyor belt is manually loaded in a short time. It then functions as a buffer, with the system running unattended for a long period. A FeedLine system can often replace stages where pallet tracks were previously used and is the right solution for sensitive components or processes with long cycle times. There are also no limits when it comes to the size of the components being handled.



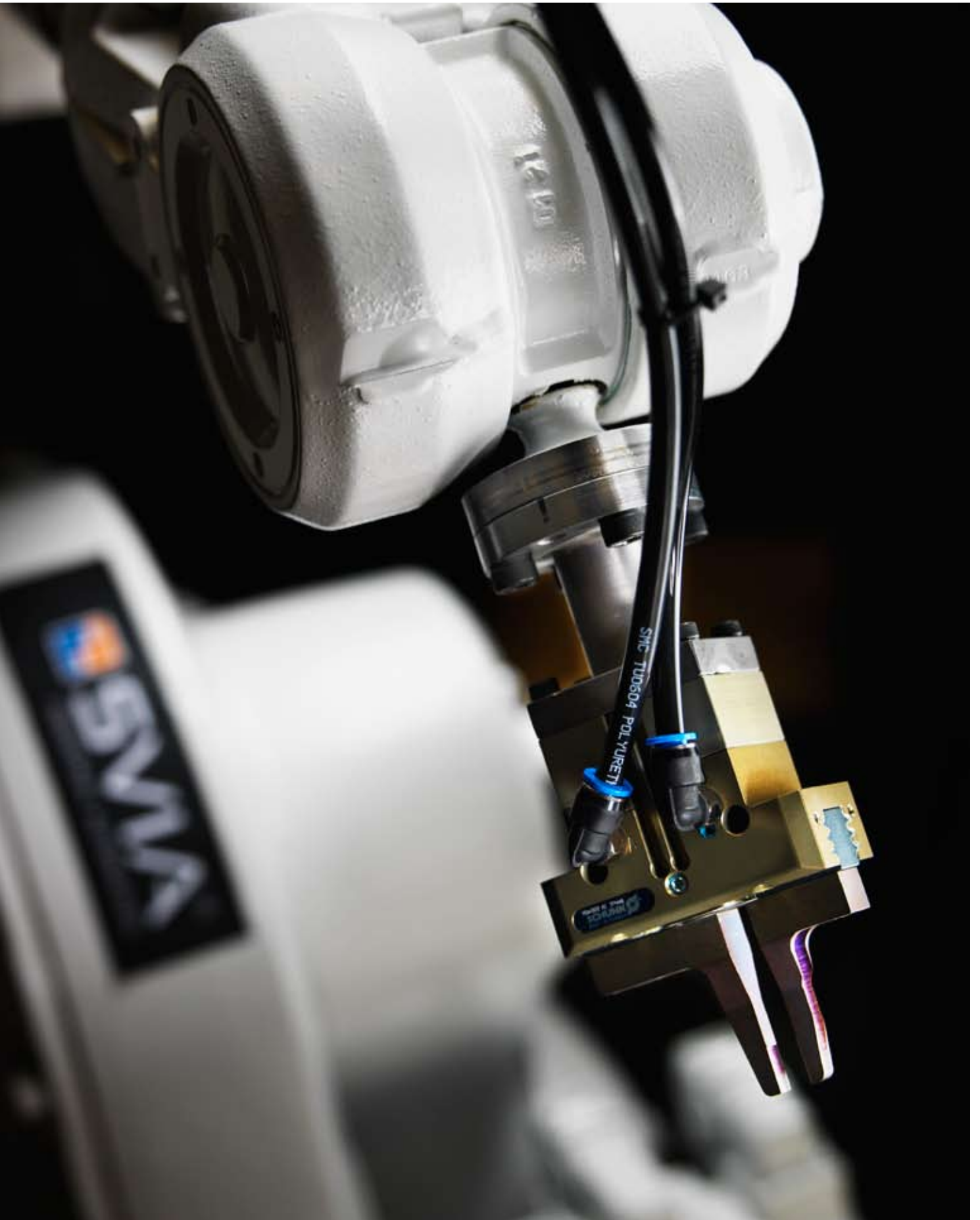
No limits to the size of components.

# PalletPicker™

The PalletPicker is a very compact solution, where the robot picks up the components directly from a pallet. The components are kept in stores separated by spacers. Once a store has been emptied, the spacer is lifted away and the robot automatically picks from the next store. PalletPicker offers a fully-automatic feed for all sizes of components and is also suitable for sensitive products.



Picks up components in stores. Suitable for sensitive materials. Compact.





## Systems adapted for changing production

**THE SERVICE LIFE FOR TODAY'S** products is becoming ever shorter. This places greater demands on the automation process being able to adapt easily to the production methods of tomorrow. If you choose a SVIA system, you can be sure that 'teachin' for new products will be quicker – and simpler – than in any other automation system:

- Changeover between different components – max. 5 minutes
- Teachin for new components – around 15 minutes
- High residual value, even if production is changed
- Short payback periods

**MANY OF OUR CUSTOMERS** have discovered that even short runs and production of a number of different variants can be profitably automated using our flexible systems. A growing number of people have also seen the value of flexible automation, even when only producing a handful of products. With SVIA's products, you get a solution that will function today and in the future.

You can, of course, immediately translate the rapid installation and short set-up times into improved productivity and greater profitability – quite simply money!

“Our growth has been exceptionally rapid. Repeat customers are a decisive factor in our rapid growth; those who are satisfied and earn money want another machine. I usually call them subscribers.”

ARI KESTI, FOUNDER







**Svensk Industriautomation AB**

Tel: +46 (0)36 210 00 00

Fax: +46 (0)36 210 00 49

Ängsforsvägen 2

SE-556 28 Jönköping

Sweden

info@svia.se

[www.svia.se](http://www.svia.se)