



CUSTOMISED COBOT SYSTEMS

WWW.OLMIA-ROBOTICS.NL



OLMIA ROBOTICS provides expertise in automation using cobots. With a team of enthusiastic experts, we develop and produce solutions for businesses looking for a partner in automation. This is more than just robotics: customisation is usually necessary for each solution. This is why we have a customer-friendly, flexible and targeted approach to producing a practical plug & play answer to the automation challenges we face. We are a committed partner with strong technical know-how in quality products. Attention and quality are our top priorities.



HISTORY

OLMIA ROBOTICS is a young and innovative company that operates in a niche that the founder discovered when he wanted to carry out some screw driving work with a cobot.

For years Peter van Olm had been running his company Olmia, a company specialised in process engineering. During a particular project he wanted to use a robot to carry out some screw driving to make the job more quick and efficient. After delving deeper into the matter, he decided to purchase a cobot for this project. Soon afterwards, however, he discovered that what he was given was not actually complete.

The robot arm needed a specific accessory for each different use in order to be a complete application.

He soon realised that he would have to go to another supplier to get hold of a gripper, to another for a screwing unit and to yet another for a screw feeder (where else would the cobot get its screws from?). He also had to come up with a solution himself for securing in place the part that had to be screwed. In the end, it took a lot of research and energy to get his cobot to carry out the screw driving. He thought: "If I'm facing all this hassle, then others are too."

This idea formed the basis to establishing the firm OLMIA ROBOTICS. Through his engineering background and passion for robotics, OLMIA ROBOTICS is able to provide comprehensive solutions for production and assembly businesses that want to cobotise.

Peter van Olm with one of his most recently developed products: the flexible machine loader Robobooster4000 (suitable for various cobot arms), multi-purpose for many applications.





We implement cobot systems together
with our customers

PRODUCTION SCAN

What issues play a role? And what results are expected? Together we look at the possibilities and at what is necessary to make an automation project a success. These aspects may be very practical, but can also involve human factors such as acceptance of innovation within the organisation.

ADVICE REGARDING THE IMPLEMENTATION OF A COBOT

For organisations that want to automate using a cobot, but first want clarity regarding what it entails, we provide well-founded advice. We give this advice in the form of a Cobot Process Study. In this study we formulate the possibilities for implementing a cobot, combined with a potential score and conditions that have to be met.

Customer
friendly, flexible
and targeted



FEASIBILITY STUDIE / ROI CALCULATION

The previous study is worked out in detail during a feasibility study. What will this mean for an automation project? How feasible and time-effective is the solution? What is the ROI of such a solution? These are all questions that are answered in a feasibility study. It tells you what you can expect from your investment.

PROOF OF CONCEPT

After the study has been worked out, a unit is made in our workshop in order to carry out a Proof of Concept. The chosen application is put together in this phase. We engineer, build, program and fine-tune the unit to ensure we have an efficiently working application.

PROJECT MANAGEMENT

Communication is central to any automation project, in which various parties are often involved. You want everyone pulling in the same direction, and the entire project to be carried out as efficiently as possible. You can rely upon us for the project management to ensure that the automation project does not take any longer than necessary.



ENGINEERING OF

CUSTOMER-SPECIFIC APPLICATIONS

No two products, production methods or situations are the same. If your production process so requires, we design and build custom-made solutions to implement the cobot system smoothly within your process. This allows you to profit from the experience we have built in previous projects.

FAT & SAT TESTS

As soon as the system has been developed and assembled, it is tested. This is done first of all in our workshop. Is it complete, does it meet expectations? The cobot system is then assembled in your production area and then tested again.

Custom-made solutions to implement the cobot system smoothly within your process



TRAINING OPERATORS

Operators who work with a cobot system must be familiar with the hardware and be able to implement changes within the software and resolve simple faults. We therefore provide them with the necessary training. We also organise cobot expert training courses, in which we delve deeper into the programming of a cobot system.

SERVICE & MAINTENANCE OF THE COBOT SYSTEM

A cobot system at a standstill is much the same as a sick employee at home in bed: you want to avoid this or at least keep this to a minimum. We support our customers during the entire life cycle of their cobot system.



Support during the entire life cycle of your cobot system



A WIDE OF RANGE OF ACCESSORIES FOR THE COBOT

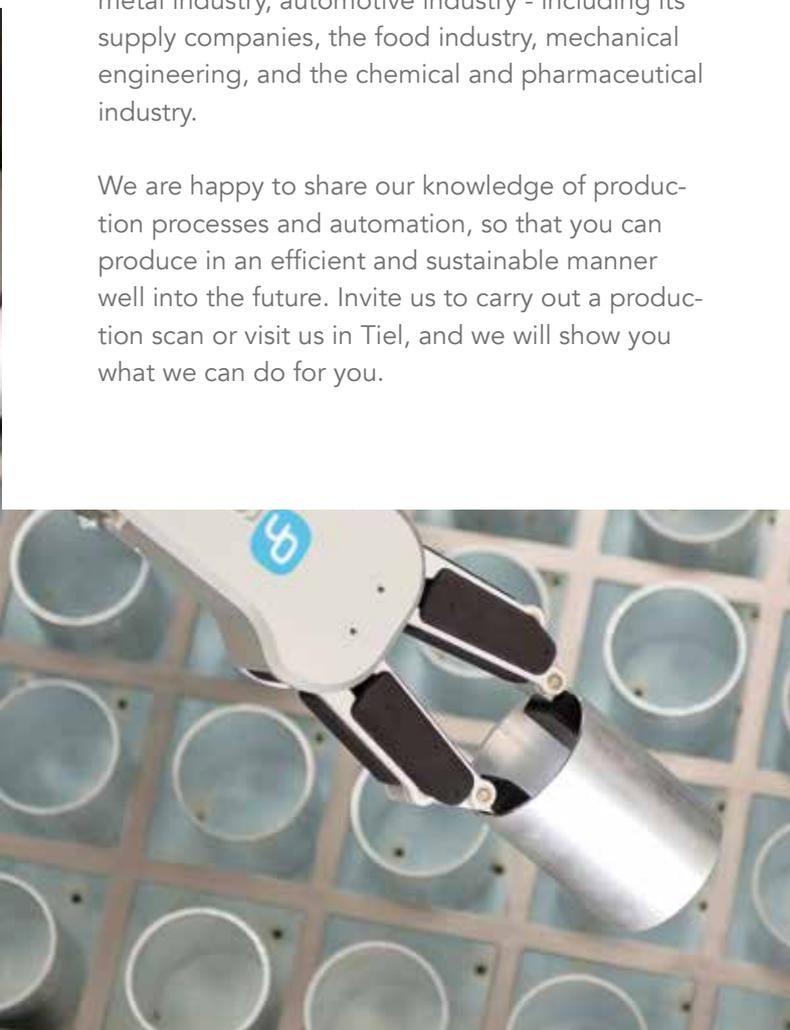
The tool used by the cobot determines the application. We supply not only the cobot itself, but also the tools, accessories and equipment for the cobot as well as the necessary parts. So, in addition to End-of-Tool products, such as collaborative grippers, sensors and vision systems, we also supply delivery systems, such as loaders and conveyor belts.



SECTORS

Upgrading factories, workshops and warehouses to Industry 4.0, OLMIA ROBOTICS is the cobotisation partner for organisations that innovate. Our expertise includes the realisation of complex turnkey projects and the incorporation of cobot cells in existing production environments. Our cobot systems are used mainly in production and assembly, as well as in the processing and packaging of products. Our clients include national and international companies. They are active in the metal industry, automotive industry - including its supply companies, the food industry, mechanical engineering, and the chemical and pharmaceutical industry.

We are happy to share our knowledge of production processes and automation, so that you can produce in an efficient and sustainable manner well into the future. Invite us to carry out a production scan or visit us in Tiel, and we will show you what we can do for you.



OLMIA ROBOTICS



RaaS: ROBOT AS A SERVICE

The production demand and the labour market have changed: greater demand for high mix / low volume, shorter delivery times, greater flexibility and an ageing work pool with a lack of technical personnel. The solution is Robot as a Service. Rent a cobot worker as a temp. Pay for the hours worked and increase your productivity on a project basis. This allows you to quickly upscale and decrease productivity, according to your order book.

For this service we work with RobShare, specialist in this area. They believe that the concept of flexible and adaptable production involves a smooth collaboration between staff and cobots, whereby everyone takes on the tasks that best suit them. The software and services package developed by RobShare guarantee you optimal extra productivity without any hassles.

RaaS is an ideal solution during holiday periods and production peaks, and for becoming familiar with cobots. The cobot systems have been made for quick and flexible deployment.

PARTNERS

For some services or applications we work closely with a number of partners. For example cobot welding: we are not specialised in welding, so for the implementation of welding applications we work with a welding expert. Whether this is TIG, MIG/MAG or point welding, we ensure that you always get an optimal and workable application.

Hands-on
engineering with a
can do-mentality

SHARING KNOWLEDGE IS IN OUR BLOOD

We learn something from every implementation. And we don't keep that knowledge to ourselves. We share the knowledge that we gain not only with our customers, but also with the generation of technicians currently undergoing training. We also recognise a shortage of technical personnel, which is why we are involved in training. We work together with educational institutions and are committed to training courses that cater to the requirements of the work floor. Cobotics is becoming the standard in production companies, so we have to be prepared for this.

Our knowledge and expertise is shared with our customers through, for example, whitepapers covering subjects that are important if you wish to cobotise. They can provide insights into, for example, which cobots are suitable for particular applications and how to carry out a risk analysis on a cobot cell.

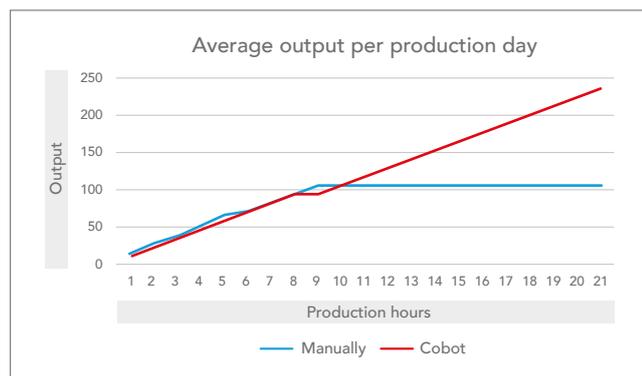


CASE STUDY

Our customer Donk Industries wanted to automate the loading and unloading of their CNC milling machine. Together with this aluminium manufacturer we investigated this issue and delivered a complete cobot system. This consists of a cobot with a gripper, equipped with customised fingers for holding the aluminium component firmly and securely. The cobot is mounted on a loading unit with various drawers in which the buffer is stored. This allows the system to load the machine for an entire shift without the intervention of the CNC operator. At the end of the work hours, the CNC machine is cleaned and the buffer replenished, whilst the combination continues to work an entire shift while everyone is already home.

In this way, Donk Industries has managed to double its production and halve its delivery time. Donk Industries has several industrial robots in operation. The reason for choosing a cobot instead of a robot was clear: the cobot is smaller, lighter and easy to program.

Jaap Zentveld: "We are already enthusiastically thinking about our next cobot project! We will, of course, be wanting to work again with Olmia Robotics."





NEED INSPIRATION?

Have you already thought about which repetitive tasks can be cobotised on your production floor? The type of tool you mount on the robot arm determines the application. The possibilities are endless.

Such as:

- Pick & place on a conveyor belt
- Loading and/or unloading a production machine
- Palletizing boxes
- Assembling products
- Coating or spraying products
- Screw driving, deburring, welding

What other jobs do you want to add to this list?

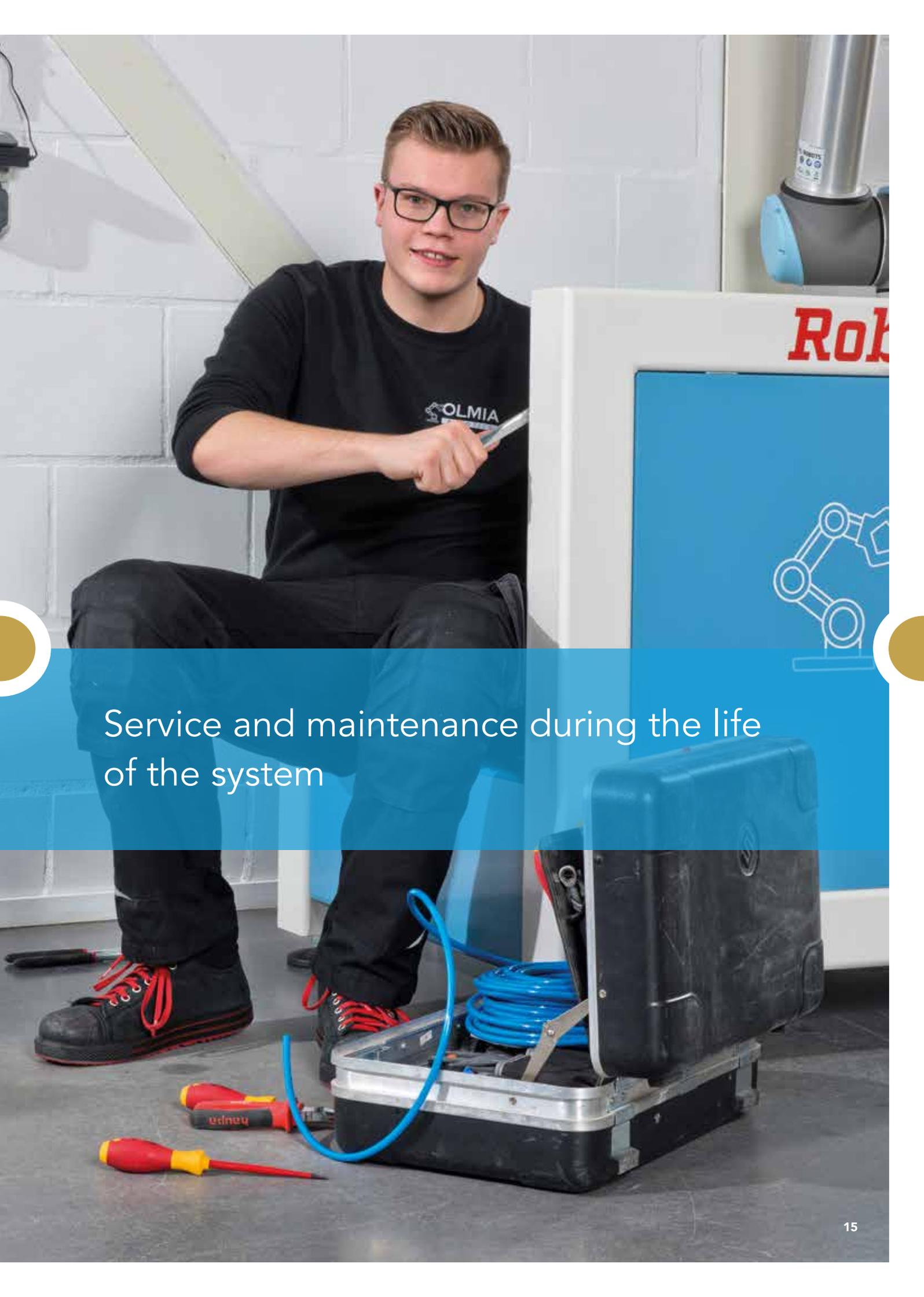
COMPREHENSIVE SOLUTIONS

OLMIA ROBOTICS offers solutions for integrating collaborative robots in your production or assembly line. We carry out a production scan to determine where in your production line you can automate using a cobot. You get advice in making the right choice.

WHAT DO WE OFFER YOU?

- Complete plug & play cobot sets for your application
- Accessories such as grippers, sensors, vision and quick change systems
- Supply systems & supports for the robot arm
- Software/programming of the cobot
- Renting/leasing a cobot set
- Training in advanced programming of the cobot

With OLMIA ROBOTICS you not only get a well-thought-out comprehensive solution, but also a committed partner with technical expertise in top quality products. Would you like to know what we can do for you, or do you want a production scan? Call us at +31(0)344 - 60 66 43.



Service and maintenance during the life of the system



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