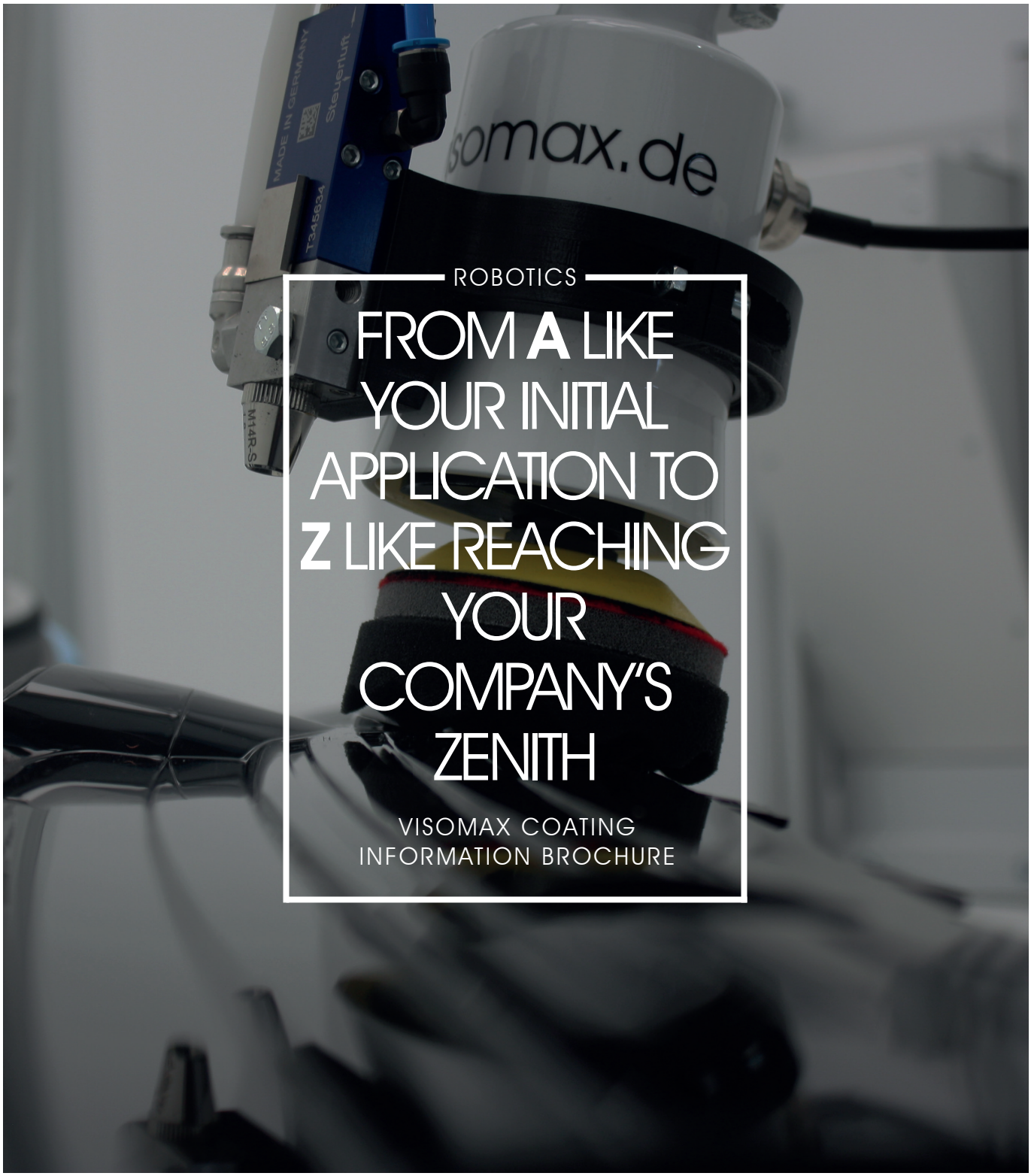
visomax




ROBOTICS

# FROM **A** LIKE YOUR INITIAL APPLICATION TO **Z** LIKE REACHING YOUR COMPANY'S ZENITH

VISOMAX COATING
INFORMATION BROCHURE

visomax

# FIRST CONTACT

1.1 Parts selection / appraisal by our Robotics Team

1.2 Provision of CAD data / sample parts

1.3 Virtual prior check of parts

1.4 Provision of parts information

1.5 Brief manual polish analysis / polish check

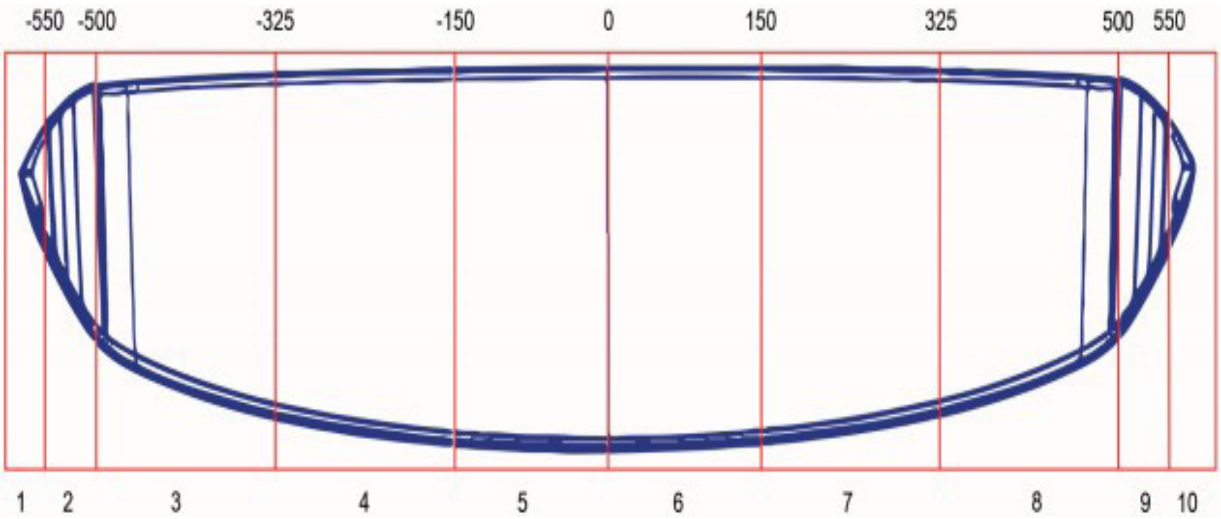
1.6 Feasibility analysis offer

# 01 PARTS SELECTION

In order to create a preliminary selection of parts suitable for automated processing for our customers, we examine the parts using photos or real samples. Above all, we focus on size, geometry and surface quality.

# 02 CAD DATA

We need the parts' CAD data in Step format (.stp) so that we can carry out the virtual prior check as a next step. The CAD data is also required for constructing parts holders and creating virtual concepts.

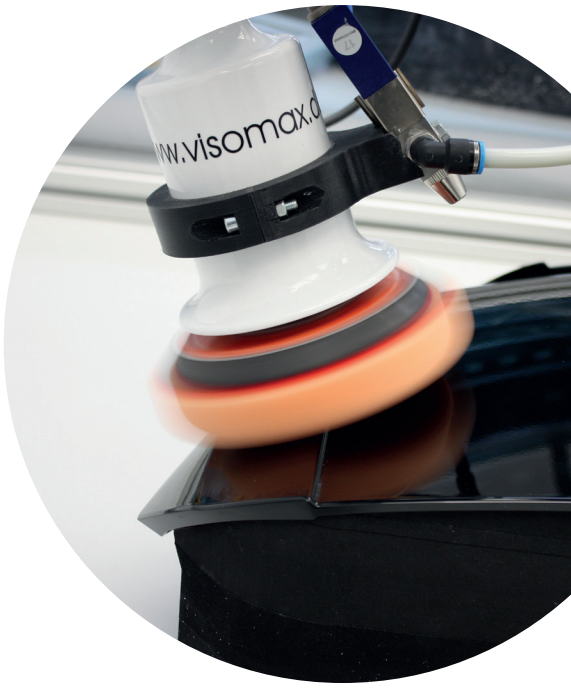


# 03 PRIOR CHECK

This is where we use our simulation software to check whether it's possible to process the parts with our standard system configuration (UR10 and mobile/ flexible Visomax robot cells), or whether linear guidance, a bigger robot (UR20) or a bigger robot cell will be required.


# 04 PARTS INFO

So that we can reasonably calculate robot usage in advance, we will need additional parts information, such as the number of pieces to be processed, average number of errors per part, and current processing times. This allows us to estimate how many different components will need to be integrated into the robotic system so that it can be used to capacity, or how many systems will be needed to cover the request number of pieces.



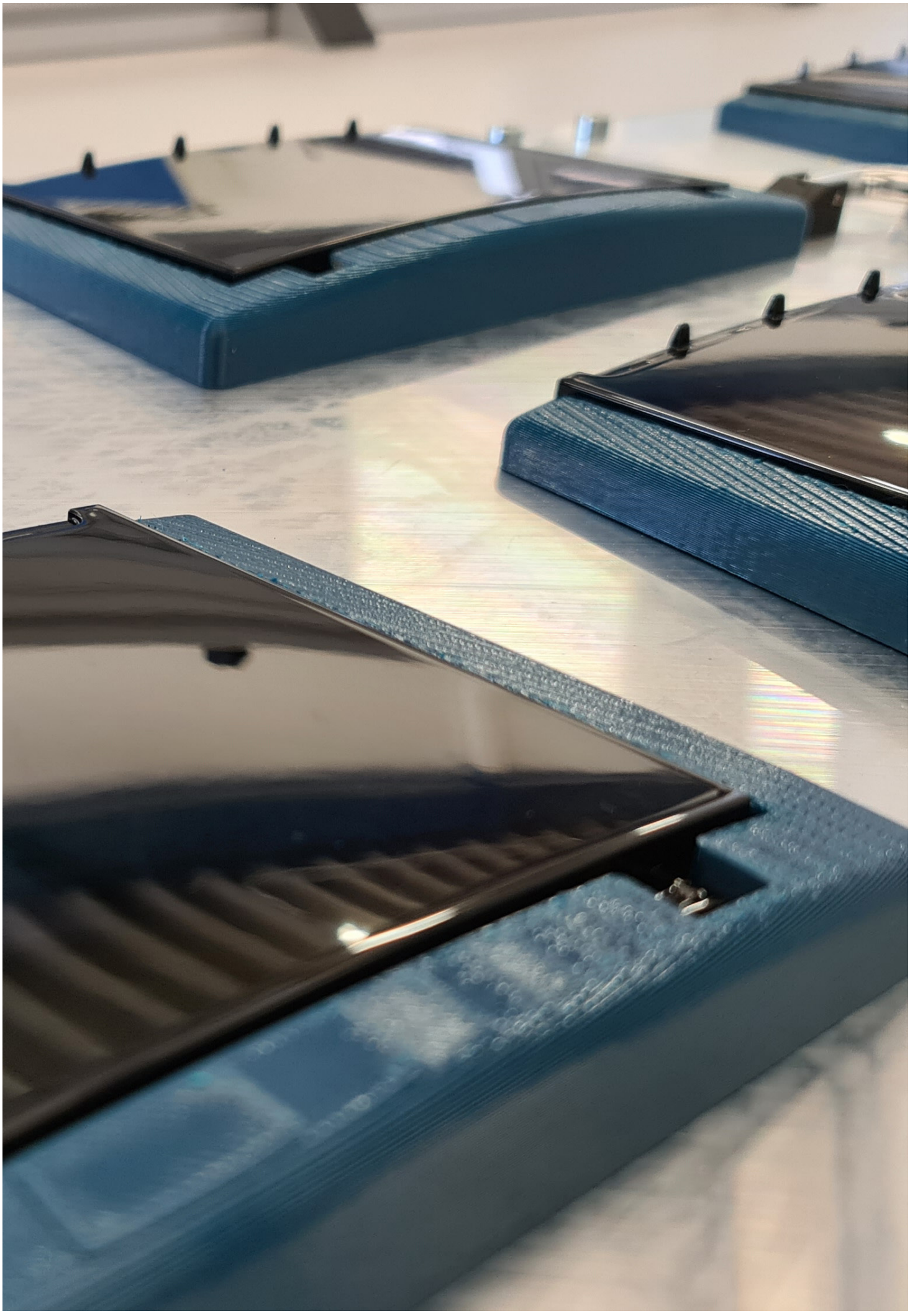
# 05 POLISH CHECK

As soon as we have real sample pieces available, we carry out a brief manual polish check. During the check, we use existing information to test whether and how the respective paint system can be processed and whether these concepts are transferable to automated processing.

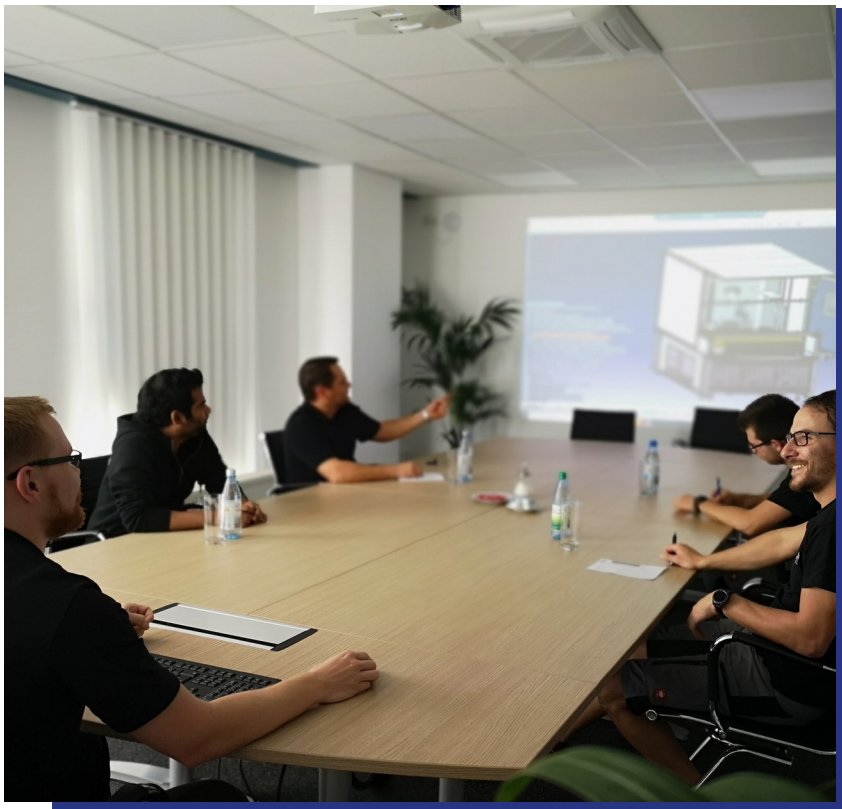
# 06 OFFER

Once we can see the potential and opportunity for automated processing, we create an offer for a feasibility analysis. We carry out a feasibility analysis before each system construction and parts integration. After this, we and the customer know if the part can be processed either partially or fully automatically, and if so then precisely how. We will also know how long processing will take and which process parameters and materials will be required. We can then completely avoid a lengthy integration phase (at the customer's site) after system construction. We also use the CAD data provided to construct and finish a suitable parts holder within the scope of the feasibility analysis, which is essential for an automated process.

**DISCOVER VISOMAX ROBOTICS ON YOUTUBE NOW!**



# FEASIBILITY STUDY



**2.1** Provision of sufficient parts + polishing test

**2.2** Acceptance of defined processes / surface finish / determination of reference samples

**2.3** Final feasibility analysis report including all parameters and data

# 01 PROVISION

For programming and particularly for subsequent polishing tests, we need to be provided with sufficient parts in all defined colours and variations including any possible parts defects. It's beneficial for the time frame between painting and parts finishing to be similar to the serial process, so that we can reproduce a comparable paint condition.

# 02 APPROVAL

Once we have achieved the requested surface finish using automated processing, the client's quality management team will visit our site to provide approval. During this, we show them the entire process, parameters and materials used. Plus, processed parts are defined as reference samples that can later be used as guidelines or quality standards.

# 03 FINAL REPORT

After successful completion of the feasibility analysis, the client will receive a final report. It details the entire process of component preparations and subsequent automated processing, as well as all necessary materials and process parameters such as time, power, speed, velocity, and quantities.

This data means that the planned robotic system can be calculated with extreme precision and allows us to confirm in advance whether processing can achieve the desired result.

If a system is ordered within six months of receiving the feasibility analysis, the costs of the feasibility analysis will be credited to the final costs.


visomax
visomax

# SYSTEM CONSTRUCTION

Once an order has been received and the requested system configuration has been confirmed, production of robot cells begins. Control cabinet construction, robot programming and PLC programming are all carried out under close internal collaboration. Findings and parameters obtained from the feasibility analysis are transferred to the system.

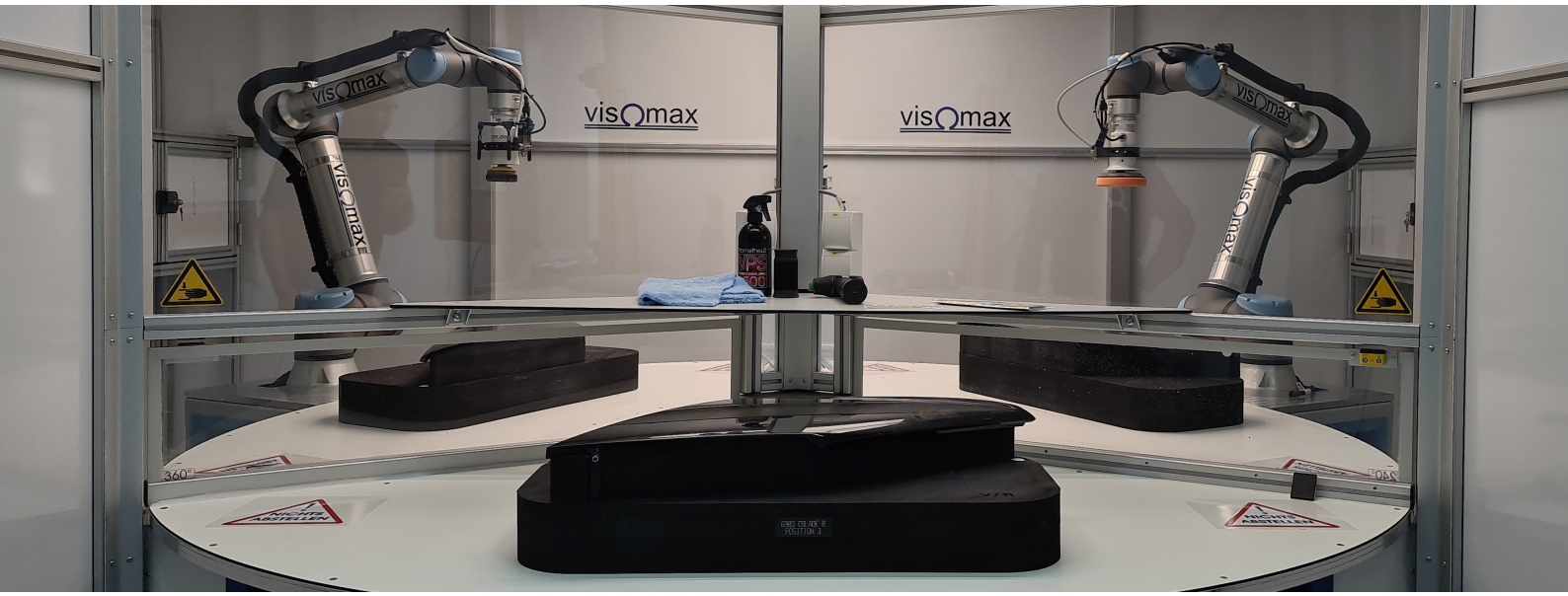
# EMPLOYEE TRAINING

Final acceptance of robot cells and employee training for staff who will operate the system in future are both carried out at the Visomax training centre. Which means that staff are ready for a seamless start to production as soon as the system has been delivered.

**LEARN MORE ABOUT VISOMAX ROBOTICS NOW**

# COMMISSIONING

After delivery, commissioning is carried out at the new production site. Time spent on this step is reduced to a minimum as all functions and process steps as well as results have been tested and approved in advance. To help with the start of production, the Visomax Team will provide system support for a further two to three days.




# PRODUCT ENHANCEMENTS

It is of course possible to integrate other parts into the system at a later date, size and geometry permitting. The process is exactly the same as the initial set-up. After a successful feasibility analysis has been carried out on the new part/ product, the integration can be carried out on the customer's site.

visomax

# Reach out now and arrange an appointment!

info@visomax.de

Visomax Coating GmbH
Dachdeckerstr. 2 - 4
97297 Waldbüttelbrunn, Germany

www.visomax.de