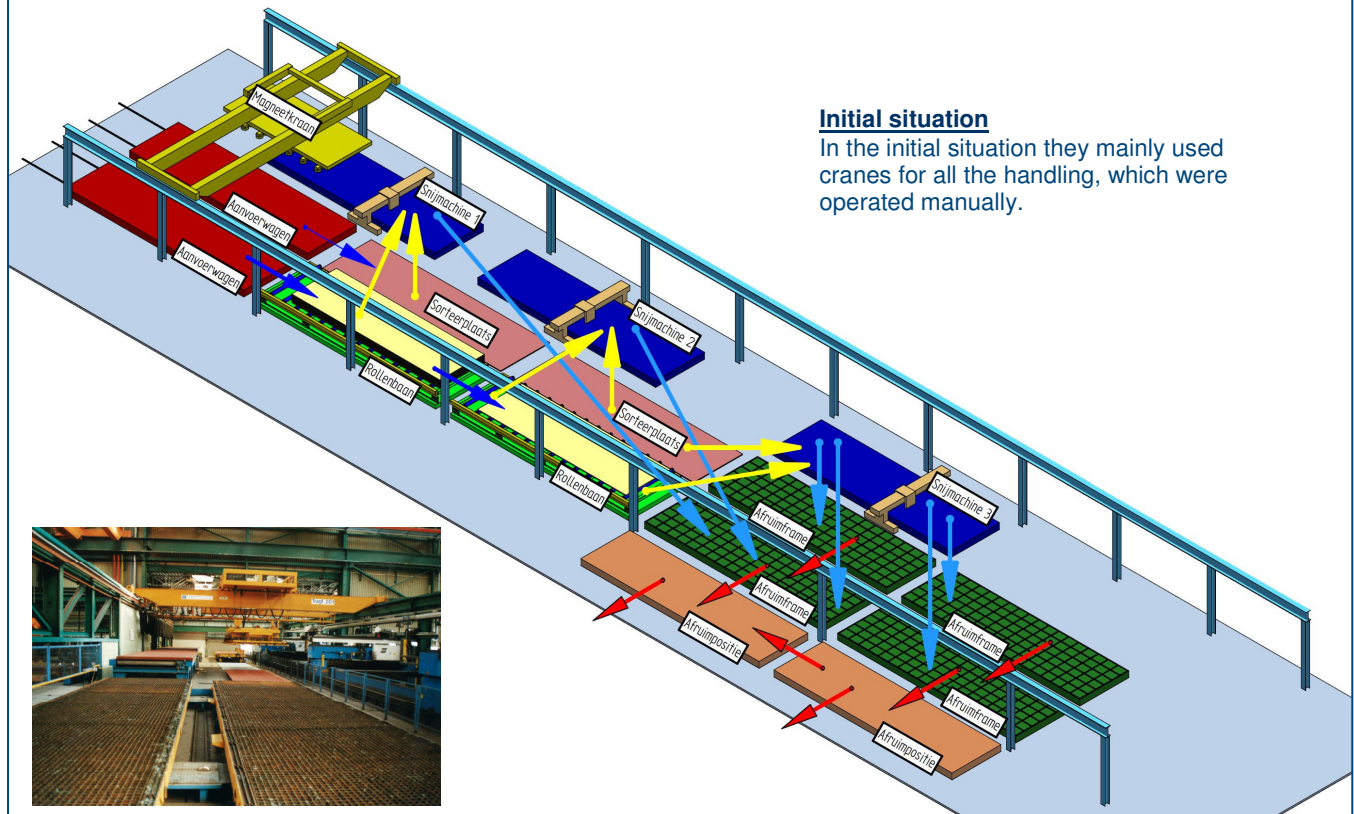


Project case: Optimization autogenous cutting dept.

Industrial Systems
Your Constructive Partner in – Consult – Design – Realisation – Service

Customer's inquiry:

How can we get more cutting capacity out of our existing autogenous cutting machines?



Initial situation

In the initial situation they mainly used cranes for all the handling, which were operated manually.

How did Grimbergen approach this inquiry?

Grimbergen's method of approaching such inquiry is by dividing the project in phases. Together with the customer, we research the problem, determine what we want to achieve and set the goals. Each phase ends with an agreement about the outcome, after which the next phase will start.

Definition phase:

- Maximum plate measurements and the needed cutting capacity are to be defined.
- Plates are to be delivered by cassettes
- Different clearing positions will be defined (positions where the cut plates will be removed and go to the next working process station).

Conditions

- To use the existing autogenous cutting machinery
- To use the existing magnet crane
- Production cannot be disturbed during the building process. The change should be implemented in a holiday period.

Pre-design phase:

Several technical achievable solutions were being designed in this phase. After consideration, the best design is chosen by both Grimbergen and the customer.

Feasibility check:

An estimate and a risk analysis were made for the implementation of the chosen design. With this information the final decision was made to carry out the project.

Development:

The drawings and technical specifications were defined in this phase. To prevent any mistakes in the machinery, Grimbergen and the customer discussed with the possible suppliers.



Projectcase: Optimalisatie brandsnij afdeling

Realisation:

The customer chose to realise the project with the help of third parties, under coordination of Grimbergen. The whole logistical layout is realised by Grimbergen. Several subcontractors made the architectural facility, the control system and the modifications on the magnet crane. The new cutting facility is built in a brand new hall.

Before the holiday period the installation has been tested. During the holidays all cutting machines were moved, and the magnet crane was modified and moved. After the holidays the customer successfully started using the new cutting machinery on the new production location.

New situation

A carroussel with cutting tables which:

- Automatically are being supplied with plates
- The tables are able to go underneath the cutting machinery
- After cutting, they can move to different positions to clear the tables
- Then they go back to the first "starting position" where the plates are being brought in

The result:

With this solution, there is minimal loss of cutting time.

This results in 30% more cutting capacity with exactly the same amount of machines as in the initial situation, and the logistic situation of the production hall is more accessible and surveyable.

