

# Application Success Stories

## KONSPORT Long-term fencing solution

Coating of open-work elements in automatic powder coating workshop



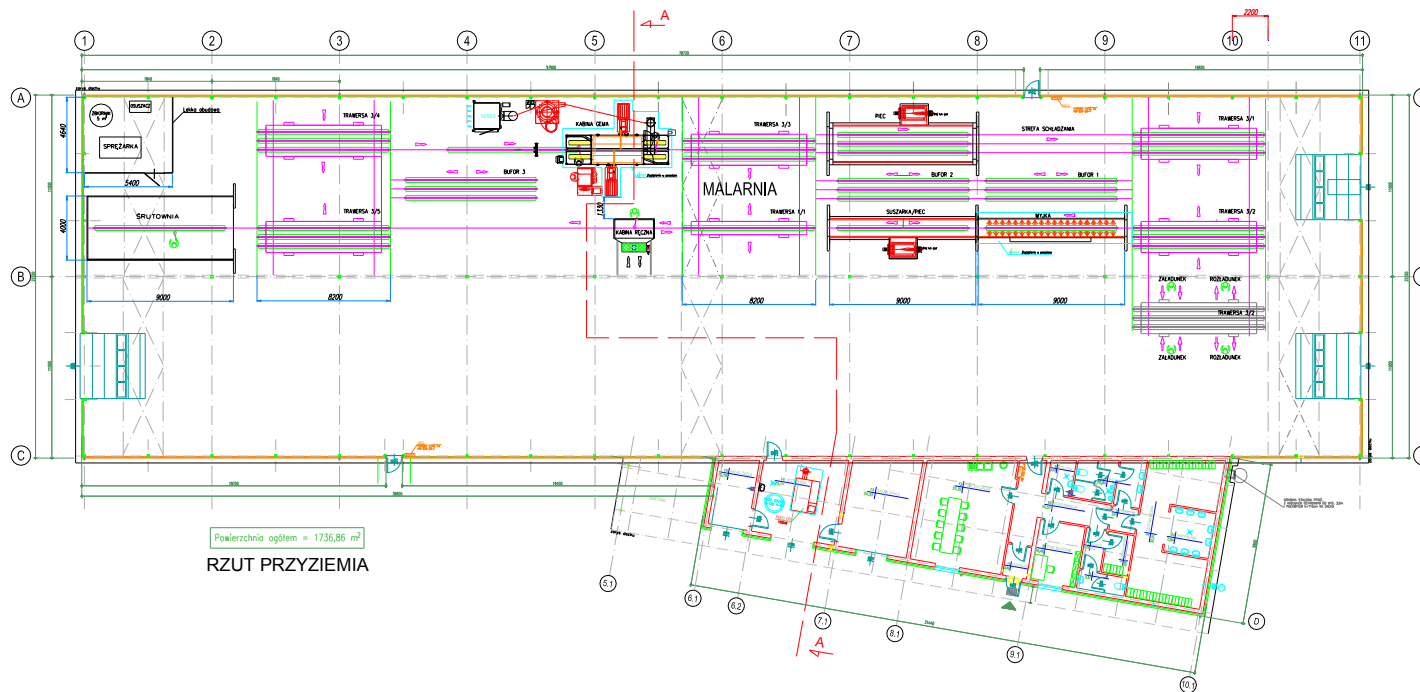
Coating Quality  
Improvements

Powder savings

Quick color change

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## Layout



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## Installation Key Data

### **Work piece data:**

Type of Object: Fencing panels, gates

Max. Height 2,700 [mm]

Max. Width 500 [mm]

Max. Length 8,500 [mm]

### **Production data:**

Speed of Conveyor: 1,5 [m/min]



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Powder painting workshop in production company does not have to be the proverbial "bottleneck". Today offered solutions not only significantly speed the varnishing process up increasing actuation capacity, but also improve the quality of products reducing costs of work. The next model example of successful investment is Konsport company that manufactures fencing systems. Konsport means 20 years of experience in manufacturing of system fences. The high-tech nature of production process, modern powder painting workshop as well as trained and experienced team ensure high quality of our products. The product qualification system certified

with ISO 9001 and production line monitoring ensure years of trouble-free use and satisfaction with the fences. Thanks to advanced machine park, the highest quality and innovative approach of manufactured fences, solutions offered by the company have gained in popularity both in Poland and other European countries. Konsport is one of very few companies, whose products are used in protecting road and rail infrastructure. While travelling through newly opened roads and highways, these products take care of smooth and safe travel. They were used for fencing of over thousand kilometers of highways. However, an increase of

fence production shown numerous weaknesses in functioning of the powder painting workshop. The manufacturing capacity was insufficient in relation to the growing number of orders. Besides the bake ovens for polymerization of powder paint were too short. It caused many problems while dealing with long elements. Modernisation was even not considered. Purchase of new paint shop was essential. It would meet the demands of investor. – From among several offers we have chosen Gema company, whose authorised representative is EKO-BHL company of Mr Henryk Tuszko – says Mieczyslaw Majewski, the owner of Konsport company.

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– Some time ago I visited powder painting workshop of another company producing fences, where Gema applications were used and they were dealing well with coating similar objects, so the choice was not difficult. The project of powder paint shop was supervised by EKO-BHL company as the main

contractor. The new investment includes surface preparation workstand, drying tunnel, Gema system for spraying the powder paints with OptiCenter (10 automatic guns + 2 workstands for repainting and finish painting of the details) and bake oven for polymerization of the paint

manufactured by Monkiewicz. However, before elements are subjected to chemical preparation they undergo mechanical treatment in manual shot blasting manufactured by Poltech. At the end of April an automatic line for shot blasting shapers will be also installed.



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The heart of powder painting workshop is of course a booth for spraying MagicCompact EquiFlow paints, which ensures precise control of the operation and high rate of powder recovery. It is very important, because fences are open-work elements, through which a lot of powder "escapes". Thanks to the new investment only 4% of powder is wasted, the rest is regained and reused for painting. Equally important is the issue of fast changing of colours. Although during one working day there are maximum six changes of colour, in this case the strategic parameter is time. Nowadays, this process takes max. 10 minutes,

what facilitates the painting process and increases productivity. It should be mentioned that some of the fencings are hot-dip zinc coated before powder coating, however, this service is commissioned to external hot-dip galvanising plant. High corrosion resistance is confirmed by tests in salt spray chamber (1000 hours). Konsport company has also the newest OptiFlex 2B unit for manual painting. It is used for protection of crucial places after galvanising. Special powder zinc paint in a particular colour is sprayed onto these elements and after that it is pre-gelatinised. Afterwards, the details are taken back to

varnishing line going through main booth, where proper powder paint is automatically sprayed. The product protected in this way meets the most demanding anticorrosion requirements ensuring at the same time desired visual effect.

– After a year of work of the new powder painting workshop I can say that selection of the Gema devices was the best idea – summarises the owner of Konsport company. – With an increase of capacity we reduced costs while keeping high quality of our products. Moreover, the cooperation with technologists of EKO-BHL company, who provide advice and services, is excellent.