




Application of XR technologies

XR-PRO

The development of modern digital process technologies takes place in modern manufacturing industry.

This equates to:

- ◆ Be commercially viable;
- ◆ Increase labour productivity;
- ◆ Degrade the time of product launch;
- ◆ Degrade the output's prime cost;
- ◆ Increase the speed of managerial decisions and product & service quality.

A person in a dark blue long-sleeved shirt is holding a tablet in a factory setting. The tablet displays a dashboard for a robotic arm. The background shows a large industrial facility with a robotic arm and various machinery.

XR technologies hold pride
of place in digitalization
of production.

AR/VR allows:



Reducing training costs and expenditures for staff.
The trainee is in close contact with the virtual instructor;



Reducing time of documentation's acquisition up to 85%;



Increasing the concernment of partners and investors;



Making remote technical support without the expert's call for the purpose
of span time and traveling expenses reduction;



Modeling a wide range of situations which can occur on the factory floor.
Practice measures in such situations.

Applications of VR for staff training

- ◆ Shows what cannot be done and what consequences in case of non-observance of rules can occur;
- ◆ Working off of sequential activities concerning technical process;
- ◆ Working off of activities in situations of extreme urgency;
- ◆ Training of staff in terms of event condition action rules within a framework of emergency situations.

Application of AR under repair and maintenance of equipment

- ◆ Process of the equipment assembly declines considerably;
- ◆ Fast obtaining of necessary knowledge and its fixing directly within work;
- ◆ Intuitive training;
- ◆ Error checking on the track-type drafting machine.

Application of AR for joint activity

- ◆ Remote consultation on tasks solution through AR in the online mode;
- ◆ Quick access to information for the purposes of tasks solution in graphic form, with voice-activated digital assistant;
- ◆ Application of the AR assistant for the correct maintenance of the response sequence.



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