MACHINE AND MAINTENANCE MANAGEMENT

Application for the manufacturing industry - Worldwide machine networking and proactive service concepts

SUMMARY

By connecting machines to a platform via the iIoT, the solution creates transparency regarding the use and operation of machines at the end customer premises. Machine manufacturers use the data to optimize their design based on findings from real operation. They can offer new, proactive services based on AI and predictive maintenance. The iIoT platform becomes the central hub for the entire product lifecycle.

CURRENT SITUATION

Suppliers are always forced to assume a reactive role when there is insufficient feedback of information and a lack of transparency about the operation of end customer installations incorporating globally distributed, maintenance-intensive machines. It is not possible to plan and document demand-based maintenance and service activities.

PROJECT DESCRIPTION

- Implementation of new, proactive service concepts
- KPI calculations and action recommendations
- Continuous product improvement through knowledge of real machine data in end customer operations
- "Digital service record" enables new, mutual transparency about the maintenance state of the machine
- Optimization of worldwide maintenance and service activities

REFERENCES

www.seiotec.com

INDUSTRY 4.0 FEATURES

Conventional, reactive service concepts are being replaced with new platform-based, proactive digital services in machine manufacturing. AI technologies and predictive maintenance can help to reduce unscheduled downtimes and costly production stoppages.

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SOLUTION

Machines installed around the world are connected to the iIoT platform MindSphere. All measured values are preprocessed in the control system, and the key information is transferred to the platform, where it is processed and displayed for the various user groups. The "digital service record" is an intelligent combination of online data and user input. AI technologies are also used to implement predictive maintenance solutions.

STANDARDIZATION APPROACHES

Standardized machine interfacing in a global context is a prerequisite for cost-effective machine integration. The administration shell, standardized semantic descriptions and uniform infrastructures are necessary to this end.