WIRE SPRINGS CABLE DRAWING / SHAVING

Enhanced value chain

Resource efficiency and digitalization are dominating topics not only in the wire industry. Manipulated software in diesel-fuelled vehicles and decisions of the Leipzig Administrative Court have resulted in the fact that also e-mobility will change value chains.



Even machine producers in the wire industry experience thin trend. On the one hand, the focus of the materials to be processed shifts, and on the other hand the demands to the surface quality for applications in electric whelles increase. This shows clearly that rechnologies like shaving are important, for example for the processing of copper and copper alloys and for removing undesirable surface defects – oxide layers, inclusions, nucchanical damages amongst others. Due to the chip removal a homogenous weir is created that is free of surface defects and meets the superior requirements of the automotive industry.

Practical benefit of "K.connect"

Practical benefit of "K.connect" Besides electric whiches another fiscus is on the electrification of railways. The mega markets of the past years – China amongst others, where a considerable high-speed railways net-work has been constructed – become clearly perceptible around the world. This is also reflexted by the increased numaround the world. This is also reflected by the increased num-ber of enquiries for trolley wire drawing plants. As a producer of trolley wire drawing plants that can be supplemented with the technology of wire shaving, the number of projects realized by the company Kieselstein has grown in the past four years. By integrating shaving into drawing plants there is the possi-bility to remove the surface defects described that occur dur-ning castring or milling processes, and to produce the profiled wire, the trolley wire, on the same plant. Further: on, new fields of application, e.g. for the production of cables can be tapped into. The company exhibited a part of such a plant at its booth at this year's wire 2018" including the dearthed process of shaving that can be integrated easily in other plants. Besides the electrification another rrend determines the activities of many companies. Under the term "digitalization" and the keyward "industry 4.0" digital services and techniques are entering the manufacturing industries. Of the one part, these changes are a challenge to a machine producer offering individual customer-specific solutions. consoner-specific solutions, of the other part they are al-so a chance. Consequently, in a first step an app to sup-port the assembly process has been developed and was

mas been developed and was implemented in the shop floor in 2017. Under the logo "K connect" – an android-based tablet version – the employees in the receiving department, the quality assurance and in the aloop floor are supported in their everyday work. But also the company's management uses K connect in order to access information about certain part components as required. For this purpose each part is labelled with a QK-code. This can be searmed using the camers of the tablet and makes the required information from a database and the ERP-system vaulable appropriate to what the user requires. The following information can be retrieved directly at the part: — Article mumber and project reference — Technical specifications — Technical drawing —

- Supplier Status of the incoming goods' inspection

- Status of the incoming goods' inspection
Inspection protocols
Delivery acute and commercial information
By implementing the app, many procosses have simplified. In the long run, the assembly process becomes more effective and the employees are disburdened from organizational tasks. By using the app and becoming more familiar with these techniques new ideas arise on how the app can be developed further. Currently, efforts are being expanded to integrate time recording in the shop floor in order to automatize time consuming administrative tasks.

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