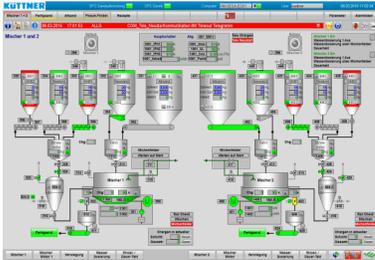


Controls, Automation, and Revamping

Featuring Kuttner Automation

Kuttner Automation

Kuttner calls Foundry its Home. Decades of experience, learning, and listening to Customers have given us a comprehensive understanding that no operation is equal to another. As different as the applications are, so are the **Controls Systems**. With support from **Kuttner Automation GmbH** for any kind of controls needs, Kuttner North America is able to get into your system, understand it, and modify it in the way that you want.

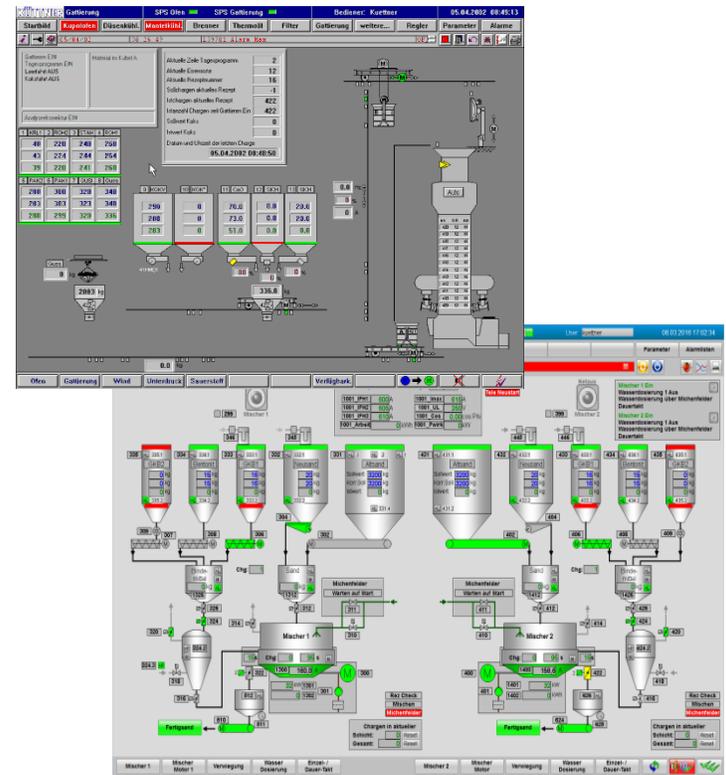


There are a lot of controls system providers out there, and there are a lot of possibilities to approach your system. We are not going the easiest way (that others may want to go), but we will try to **incorporate new ideas and state of the art developments** instead of repeating the same old mistakes again. We are guided by the vision that a good automation system follows your needs, and not that you follow the needs of the automation system.

With experience in different automation systems like Rockwell/Allen Bradley, Siemens, ABB, and Mitsubishi, we are able to find your solution.

PLC and HMI

PLC and HMI have changed quite a bit during the last 30 years. Functions deemed impossible due to high data storage requirements or processing speeds years ago, can now be implemented with ease. The trending and storage of data has changed. **Accessibility to your system can be limited to between only the operator and the HMI, or expanded to everywhere in the world via your smart phone.** Modern, normed bus-application makes data transfer not the exception, but the rule.



Kuttner has been in the business since the beginning of foundry automation. With its own system in the 80's and 90's, being a solution provider in the 2000's, we have gone through a lot of changes and learned a lot.

We would like to share our experience with you.

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Revamping and Migration of Aged Systems

The great advantages of new automation systems come with one big disadvantage: Providers of automation systems will not be able to keep your special automation system Hardware and Software updated for the whole lifetime of the mechanical equipment. For you that means that normally you will have to migrate your automation system from an older version to the newest on the market at least once a lifetime of your equipment. This is true for Hardware and Software.

If you realize that this **migration** is not only a cost factor; but also a **great opportunity for implementing new functions into your systems, and make it more effective and easier to operate**, you are right with Kuttner. There are enough companies out there that will make you a special price for exactly the same operating conditions that have troubled you and your operators for years. Let us take care of this with Kuttner's process experience consulting with you and weighing out the best options.

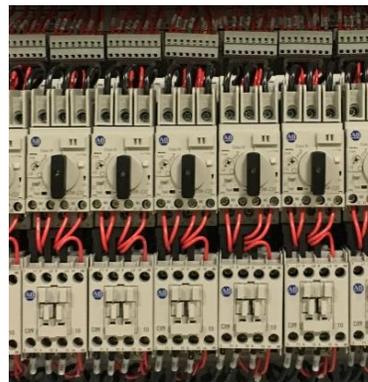
Motor Control Center

Motor Control Systems have developed into a whole new field within automations systems within the last two decades. Bus- and Smart-Connections allow for monitoring of functions and parameters that are essential tools for modern maintenance.



We understand that the **diversity of different systems can be overwhelming** for some of our customers. We are there to build the **bridges into these new technologies**. We are also able to keep your system the way you have been working with it for the last decades.

IEC-Starter



Having Customers all over the world, Kuttner is able to compare different technologies for Motor Starters. We have learned that the Motor Controls are not so much differentiated by different applications, but by the regions of the world they are used in.

The very common IEC-Starter-Combination is very popular in Europe whereas the more rigid construction of MCC's is more common in the USA, India, and China. The **advantage of the IEC-Starter-Technology is the much lower cost approach** and the more cost effective implementation of special features for your motor starter. It is **fully approved by NEC**.

