

Flexibilität ohne Produktivitätsverlust

Diese Forderung ist aus vielen Industriezweigen zu hören – und zwar über eine Produktionsanlage, welche verschiedene Produkte herstellen kann. Ist dies möglich? Die gesamte produzierende Industrie sucht nach diesen Anlagen.



Bild 1. und 2. Produktion auf mehreren Ebenen

Fig. 1. and 2. Production on several levels

In der Beton-Fertigteileindustrie haben wir den ersten Schritt in diese Richtung bereits hinter uns gelassen. Eine Anlage, in der gleichzeitig

- ▶ Elementdecken
- ▶ Doppelwände
- ▶ Massivwände und
- ▶ konstruktive Teile

für den Wohnungsbau erzeugt werden können, produziert bereits seit geraumer Zeit.

In dieser Anlage können sowohl einzelne Elemente als auch komplette Rohbauhäuser erstellt werden. Dies geschieht, verglichen mit herkömmlichen Anlagen, die nur Einzelemente erzeugen können, nahezu ohne Produktivitätsverlust. All dies wurde durch eine konsequente Trennung von Arbeits- und Transportbereichen erzielt. So wurde eine „atmende Fabrik“ geschaffen, welche sich auf die Produkte und Produktionsmengen einstellt. Dies funktioniert allerdings nur dann, wenn die Instrumente Arbeitsvorbereitung, Produktions- und Personalplanung sowie Leittechnik der Produktionsanlage aufeinander exakt abgestimmt werden.

Flexibility without loss of productivity

A production plant which can manufacture different products. According to many of the people involved in the industry, this is a real requirement. But is it possible? All companies involved in production are looking for systems of this type.

In the precast concrete industry we have already made the first step in this direction by creating a system in which

- ▶ precast floors
- ▶ double walls
- ▶ solid walls and
- ▶ structural parts

for use in the area of housing construction can be produced and have been produced for a considerable amount of time.

Both individual elements and complete carcasses of houses can be produced in this plant. This happens almost without a loss of productivity compared with traditional plants which can only produce individual elements. All of this has been achieved by consistent separation of the operational and transport areas. This is how a “breathing” factory is created which is adapted to the products and output. This can, however, only work if the instruments known as operations scheduling, production and personnel planning and control systems technology are exactly harmonized with each other.

How is such a plant created?

Only by consistent and purposeful cooperation between operators, planners and plant and control system constructors can such a plant be created.



The plant operator knows the market, the competitors, the products and the developmental possibilities in the market. The planner knows about the state-of-the-art and the possibilities of converting this in an inexpensive and efficient manner so that the operator can operate successfully on the market.

The plant and control system constructors use their experience and the specialist knowledge required to acquire same to construct the production plant which was formulated as part of the operators' wishes and in the planner's mind.

Coordination of all participants

Since 1994, Christian Prilhofer Consulting has been working in the areas of planning, consulting, coordination and project management related to the construction, reconstruction and modernization of industrial plants and plant engineering. Most of the customers come from the precast concrete industry.

Since, in addition to planning the plant, it is usual for a planner in this branch to take on all tasks, from obtaining the quotations for the machines, through coordination of the hall construction or reconstruction, up to assembly management and initial operation, Christian Prilhofer Consulting has specialized in implementing project management. As a result, clear interfaces between all participants are created, thus saving on both costs and time.

