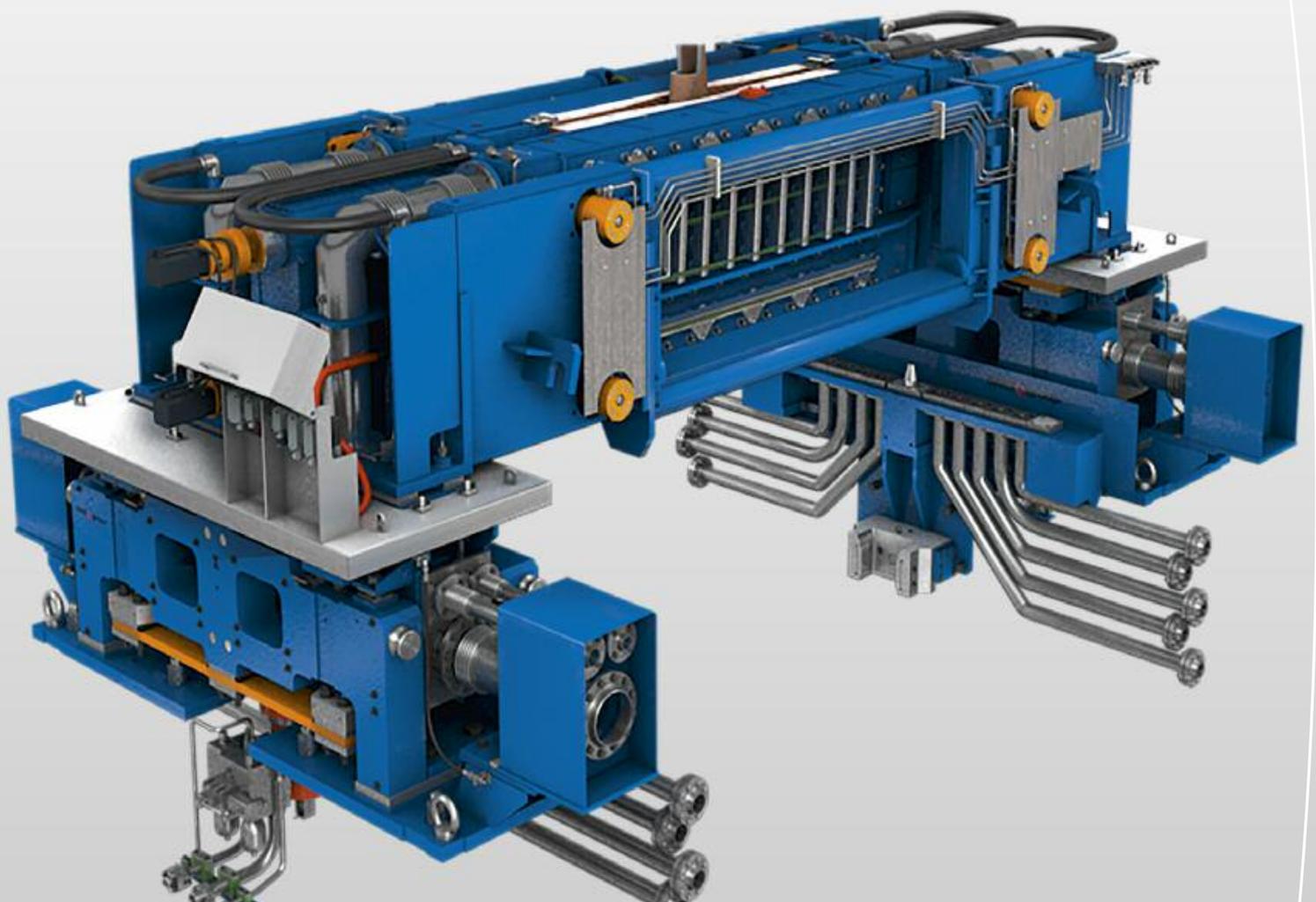
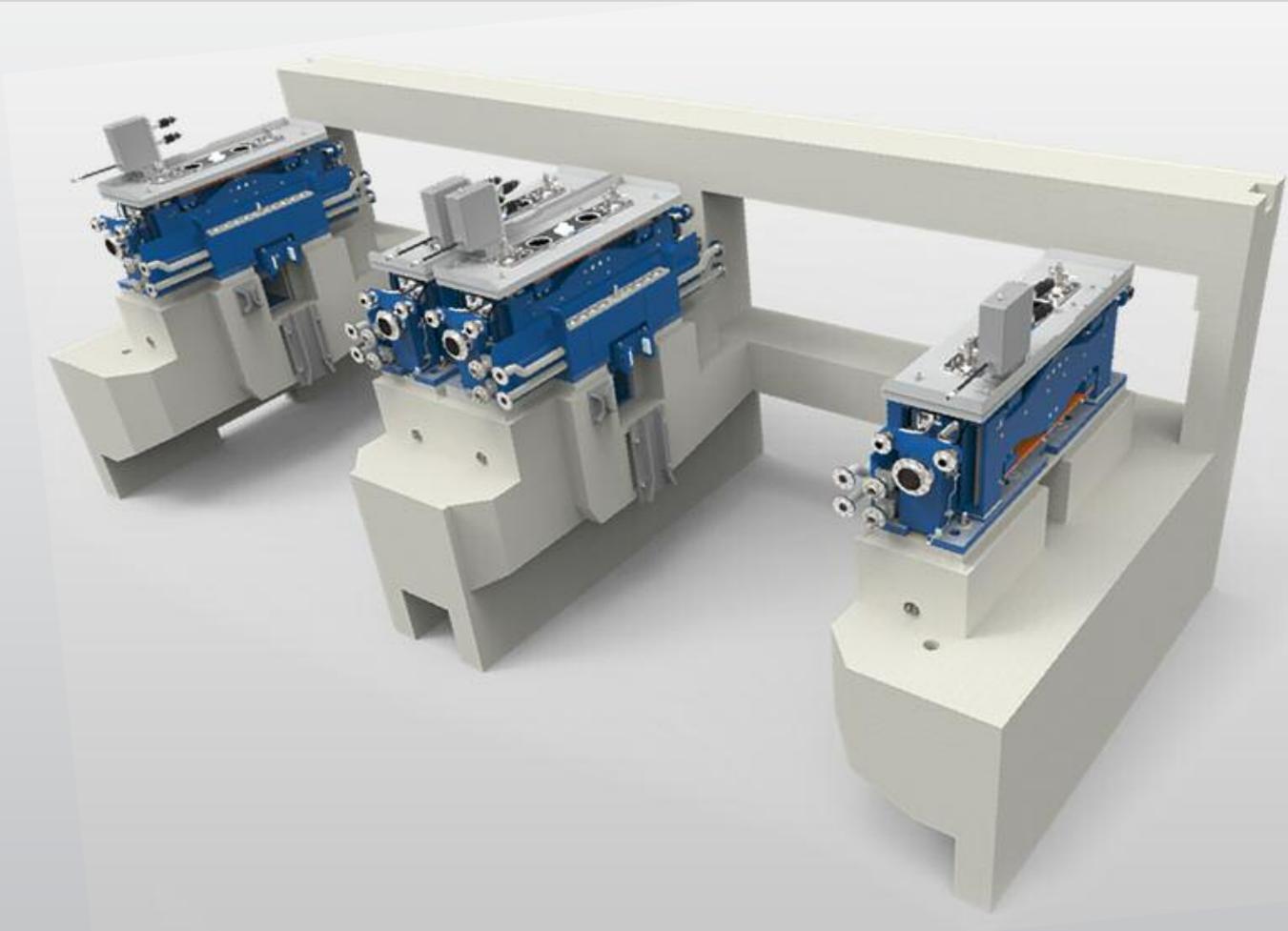


# X-Pact<sup>®</sup> Oscillation Control

Best surface quality for your slabs





### The challenge

Without mold oscillation, the economic breakthrough of continuous casting would never have been possible. The process would simply have been unthinkable. The oscillation motion prevents the freshly formed strand shell from sticking to the mold, and thus improves the quality.

Product quality and low operational costs are the major factors for success. Product quality can be improved by best possible lubrication due to a reduction of oscillation mark depths. High precision oscillation with ultra-low tolerances in guidance is to be reached as well. Lowest maintenance efforts should be accomplished.

To reach these ambitious targets a rigid and reliable but also highly dynamical and flexible mold oscillation is required.

### The SMS group solution

The SMS group X-Pact® Oscillation Control allows variation of curve shape, stroke and frequency – online.

The system improves lubrication inside the mold, increases surface quality of slabs, minimizes consumption of casting powder and reduces maintenance costs.

#### Key features

- Excellent surface quality by flexible curve (shape, stroke & frequency)
- Optimal mold powder effect and usage
- Lowest breakout risks
- Easy maintainable components
- Outstanding slab quality – fewer returns

### Modernization

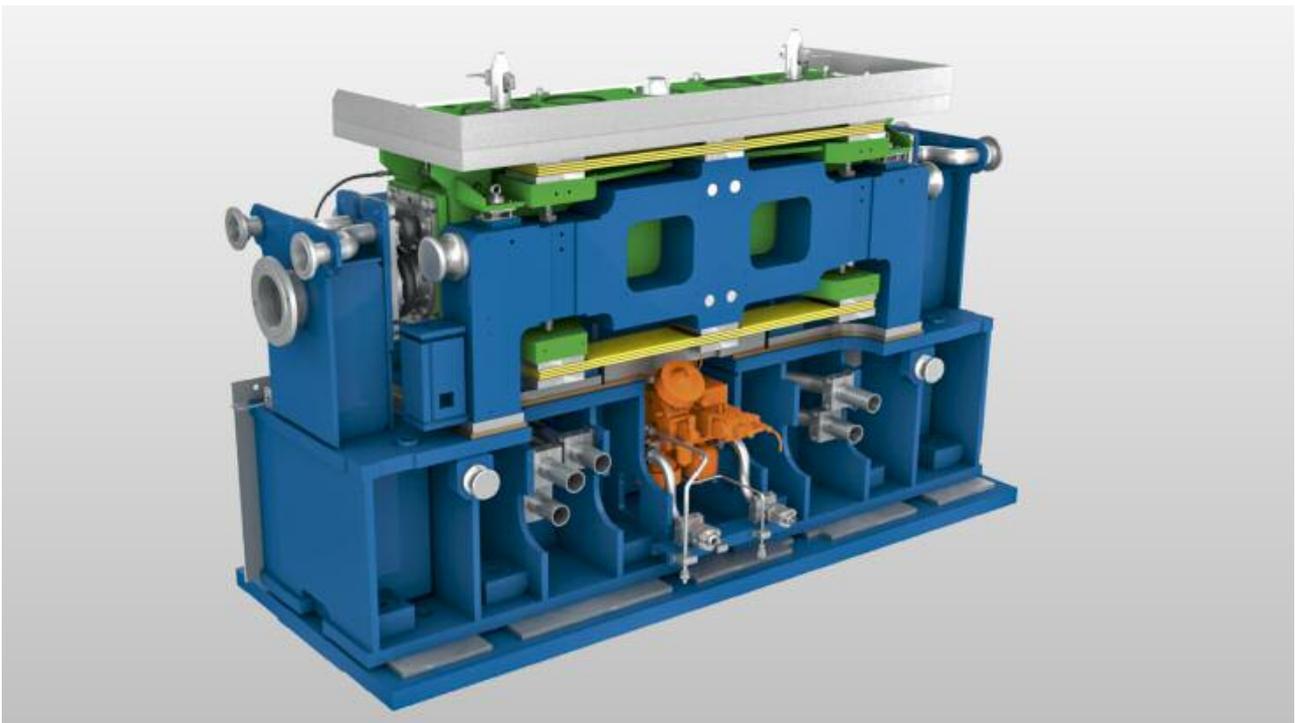
The X-Pact® Oscillation Control can be integrated into any existing plant.

## Functions

<b>Multi Oscillation Shape</b>	Sinus, asymmetric sinus and non-sinus curve shapes are possible. Depending on cast speed and steel group, frequency, stroke & curve shape is smoothly changed.
<b>Dynamic Stroke Adaption</b>	Eliminates the control deviation to the reference oscillation curve.
<b>Notch Filter</b>	Enables a better oscillation and less mechanical stress by elimination of certain frequencies.
<b>Oscillation Monitoring</b>	Live monitoring of the oscillator movement with different graphs (e.g. position, acceleration)
<b>Real Mold Stroke</b>	Stroke adaption by considering accelerometers.
<b>Friction Monitor</b>	Monitoring of strand friction forces. Warning/alarms are generated if certain thresholds are violated.
<b>Redundant Transducers</b>	An additional transducer will avoid cast aborts in case master transducer fails. Casting can continue without interrupt.

## Operate, observe and analyze

All important signals and operation modes are shown user-friendly – on an assigned user interface.



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