GASSEN
INSTRUMENTS

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The specialist for measurement application in the steel industry

Welcome to Gassen Instruments GmbH

We are specialized on measurement applications for the steel industry.

Our products help to improve the quality of the steel production process. They are made to survey the plant condition and are therefore a key element for quality and plant safety.

Gaptor®


Gaptor® – the innovative strand condition roll checker has become an integrative element of quality control in modern continuous caster technology.

Gaptor® enables the control of all potential error sources and provides detailed information about the condition of the strand guidance. The survey of all quality relevant parameters like roll gap, roll rotation, roll bend and water spray allows for preventive maintenance actions which account for cost reductions.

Gaptor® collects all necessary data within one measurement cycle. This avoids loss of time and difficult steric configurations as in manual measurements. The results of the periodic measurement runs can be compared. The factory operator is consequently in the position to plan for maintenance actions and replacement of a section of the caster machine.

Gaptor® - IC


Gaptor ®-IC is an in-chain-model of the Gaptor® with the sensors mounted directly in the dummy bar.

The condition of the caster is monitored during every start-up. This happens without any additional expenditure of time.

The installation takes place into the dummy bar with special mounting sets or into a separate dummy bar link. Every measuring system is designed for one slab thickness. For other slab thicknesses, the sensors have to be exchanged to fit in the caster properly. All measurement data are transferred to the host computer.

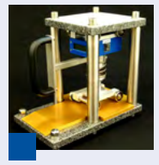
MouldAlign


The MouldAlign measuring system is a universal measuring system for controlling the mould orientation and the transition to the first strand segment of casting machines.

Usually moulds are carefully assembled and adjusted in the mould workshop of a steel plant. The segments of the caster are also set up individually and separately. However, the perfect alignment of the mould and the first segment must then be set in the system itself.

The MouldAlign provides user-independent high-precision laser data from the mould and the transition to the first caster segment. In addition to the 12 lasers, up to two inclinometers can be mounted to determine the absolute orientation in space.

Mini/Midi/MaxiGap




The manual measurement of the roll gap of a continuous caster machine was always a big issue. From now, it is easy!

The value for money measurement device Mini/Midi/MaxiGap can be utilized with little effort to check the roll gap at the caster machine as well as in the workshop.

The self-centring mechanical design and the light weight allow measurements even at difficult steric configurations. Additionally the current reading can be frozen on the display which has also a backlight.

Mini/Midi/MaxiGap makes roll gap measurements a cakewalk. Mini/Midi/MaxiGap is battery powered and easy to operate for everybody. The measurement result is accurate to 0.1 mm readable directly from the display.

MiniTap


The taper measurement device MiniTap uses a high precision electronic together with an inclinometer connected to a self-centring mechanic.

MiniTap allows an easy and precise determination of the taper of the narrow sides of the mould. The self-centring mechanic ensures that the spacer is nestled up properly against the narrow side of the mould. By means of the bubble level and the adjustment screw, the device is positioned horizontally. MiniTap comes with a calibration device for periodical calibrations to allow reproducible results on a long term.

MiniMould


MiniMould is designed to determine the inner dimensions of rectangular, square and round billet and bloom moulds.

The periodical inspection of the mould dimensions is a fundamental element of quality control activities in the steel production. Wear and deformation can be monitored very early. Thereby preventive maintenance actions can be taken in an early phase to ensure cost savings.
The measuring range starts from 120 mm up to over 800 mm with an accuracy of +/- 0.05 mm. Measurements can be taken at four lines at the same time. The results are displayed in a spreadsheet and a graphic sheet.

Custom Products

Gassen Instruments GmbH is specialised on measurement applications for the steel production industry. Besides standard instruments, we offer custom products to our customers, which are made to special needs and to the special definitions of a project.

You have a measurement problem? - We have the solution!

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