



CCS Sheet Geometry Measuring System

The CCS sheet geometry measuring system is usually installed between the shear and stacking system.

diagonals (D1, D2), angles (A, B) and squareness (S) for every sheet.

The measurement is based on optical reflection, in which the entire cut edge is detected. The measuring system is able to measure the length (L), width (W),

Storage of the measurement results is, of course, an integral part of the system.



Measurement Task

- length
- width
- squareness
- parallelism
- optional:
 - camber
 - sheets with scrap-minimizing shapes such as trapezoid, rhombus and scroll

Special Features

- reliable IMS hardware ensures long-lasting and low-maintenance operation in a compact and lightweight construction
- high-precision measurements on a wide range of material surfaces (from matt to glossy)
- high sampling rates through embedded FPGA image processing
- continuous sheet geometry measurement from the first to last with extremely high accuracy
- suitable for cut-to-length lines as well as multi-cut-to-length lines
- quality reports for each individual sheet / plate
- online visualisation of results and report generation via user-defined results interface

Material Data

Typical thickness range:	up to 6 mm, but not limited
Max. speed:	up to 150 m/min, but not limited to
Width:	up to 2,400 mm, but not limited to
Sheet- / Plate length:	from 300 mm up to 8,000 mm, but not limited to

Measuring System Data

Gauge type:	customized frame with moveable CCS
Radiation source:	High Power LED
Camera type:	CCS (16 cameras per cluster)
Typical working distance:	350 mm with 60 mm field of view

Measuring Dynamics

Sampling rate:	depends on application
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Measuring Accuracy

Length & width accuracy:	≥ 0.1 mm/m (2σ) typical
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