

STRIP SHAPE

VIP 08 CAMERA MEASURING SYSTEM

APPLICATION

- ▶ Metal strip

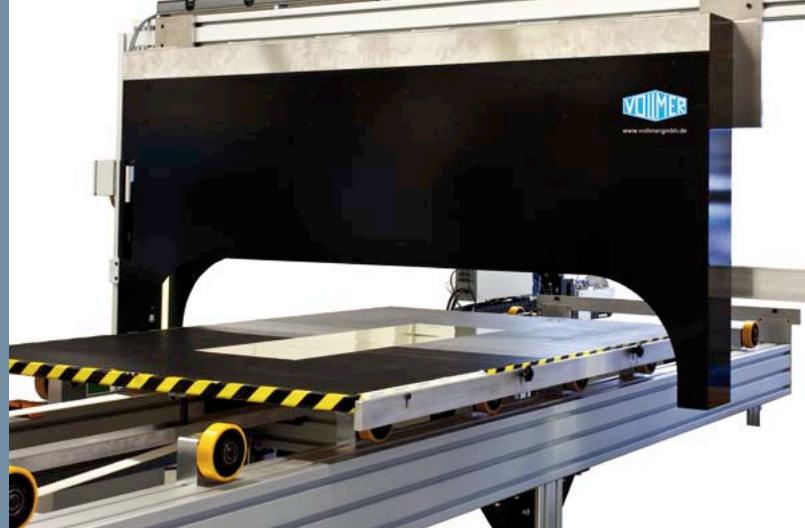
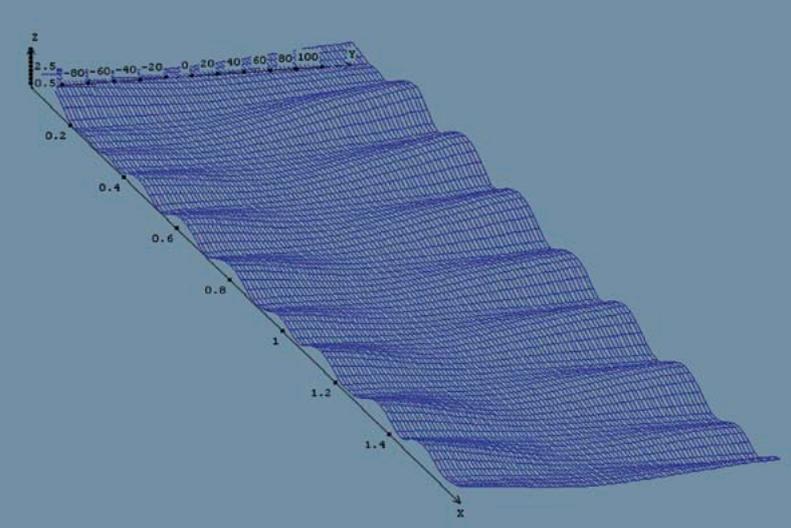
FUNCTION

- ▶ VIP 08 measures the shape of the strip contactless.
- ▶ It uses a narrow, very uniform diffuse light bar that is projected by laser diodes onto the strip to be measured and recorded by a matrix camera.

ADVANTAGES

- ▶ Inline measurement
- ▶ High resolution: Up to 200 measuring zones across the width of the strip





PROCESS PARAMETERS

Material to be measured	metal strip
Strip speed	5 - 1,500 m/min
Specific strip tension	0 - 70 N/mm ² (depending on the E-modulus, thickness and width of the strip)

MEASUREMENT PARAMETERS

Pass line variation	max. +/- 10 mm
Optical sensor	CCD camera
Measurement range	0.1 - 300 l-units
Measurement resolution	< 0.00005 l-unit
Measurement accuracy	< 2 l-units
Max. strip temperature	1,200 °C
Number of measuring zones over the max. strip width	200
Accuracy of the strip width and strip position detection	+/- 1.5 x measuring zone width
Sampling interval	20 ms
Averaging time	1,000 - 10,000 ms

DIMENSIONS

Free field of vision in strip pass direction	200 mm
Width in strip pass direction in case of monoblock design	300 mm

CONNECTIONS / CONSUMPTIONS / ENVIRONMENT / OTHERS

Interfaces	PROFIBUS DP, Ethernet (TCP/IP), hardware (digital and analog in- and outputs)
Supply voltage	110 - 230 V AC, 50 - 60 Hz
Installed load	2 kW
Protection class	IP64
Ambient temperature	Sensor system: 0 - 45 °C Control cabinet: 5 - 35 °C
Relative humidity	0 - 95 %
Cable length	max. 100 m between sensor system and control cabinet
Data transmission	Ethernet
Evaluation computer	Compact PCI (user interface, statistics, 3D graphics, etc.)

OPTIONS

Shape control	i.a. saddle adjustment
Air cooling	for hot strip applications
Measuring equipment testing device	for checking the measuring instrument capability
Offline shape measurement	at strip samples



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