

# STRIP SHAPE

## VIP 08 CAMERA MEASURING SYSTEM

### APPLICATION

- ▶ Metal strip

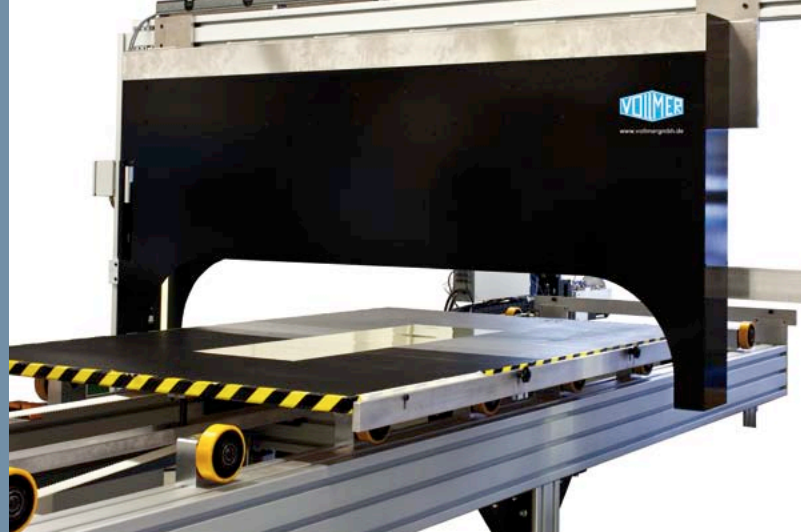
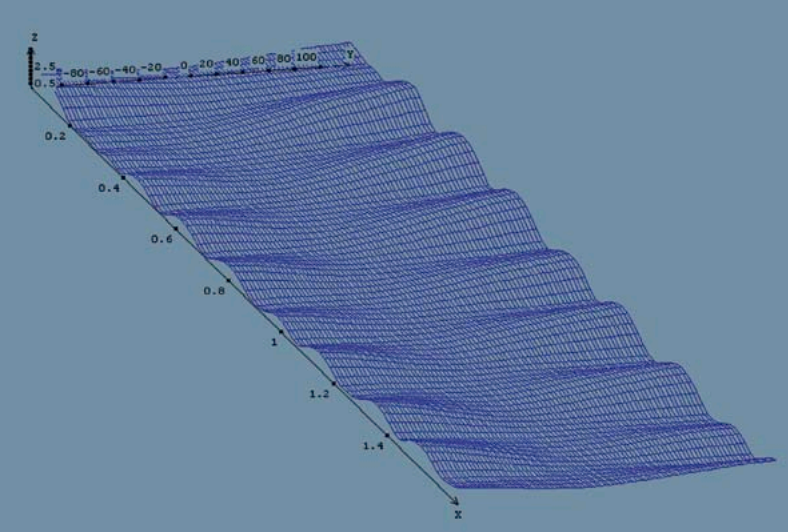
### FUNCTION

- ▶ 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 <sup>2</sup> (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.)

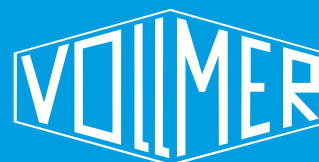
### OPTIONS

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



**Friedrich Vollmer  
Feinmessgerätebau GmbH**

Verbandsstraße 60 b · 58093 Hagen · Germany  
Fon: +49 2334 507-0 · Fax: +49 2334 507-199  
contact@vollmergmbh.de



[www.vollmergmbh.de](http://www.vollmergmbh.de)