

# senseIT

Robust visual quality inspection by 3D machine vision,  
fully automated and in line with production

## Introducing: the val-IT Flex

For the validation of midsize manufacturing parts

[www.senseIT.nl](http://www.senseIT.nl)



# val-IT flex

Validating each shape in detail

## THE VAL-IT FLEX

The manufacturing industry is faced with the demand of high quality standards. Nowadays it seems almost impossible to meet these increasing requirements.

This is an issue that might sound familiar to you, as it does to many in this industry. That's where we come in. At senseIT we were determined to find a solution to this problem, so we started to develop 3D inspection cells for the quality control of manufacturing parts. The val-IT Flex is our latest system and is made especially for validating midsize, complex parts.



3D Visual Inspection



3D Metrology



Statistical Process Control

## MOST ACCURATE SHAPE VALIDATION

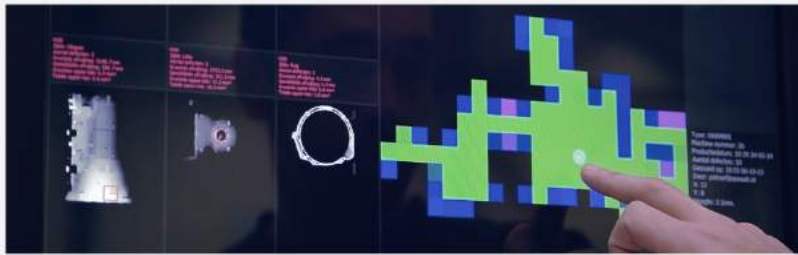
The val-IT Flex inspects all sides of midsize parts within half a minute. It's quick but also very accurate. The software detects deviations at one tenth of a millimetre! That's more than the human eye is capable of. Besides that, the process is fully automated and does not require any human interaction. This eliminates all human interpretation errors caused by fatigue or distraction.



## COMPLETE ERROR DETECTION

While developing the val-IT Flex we implemented the best and most innovative 3D metrology techniques as possible. That's why the system is able to detect all different types of defects: broken or missing parts, deformations, machining stock, indents, excessive burrs and other deviations that occur during production or transport.

During the validation process the val-IT Flex compares the measured manufacturing part to a predefined digital calibre. We made sure the user interface of the val-IT Flex is very intuitive. This way you can easily teach the system new or modified parts and you set tolerance fields without any trouble.



## PROCESS IMPROVEMENT

The information of all individual validated parts gets stored in a big database. This way the val-IT Flex is able to do a statistical analysis that informs you about recurring failures in the manufacturing parts. The results of the analysis are clearly presented in the history manager. Insight in those repeating failures helps you improve the entire manufacturing process.

## PROVEN TECHNOLOGY

Our robust technologies and innovative software make it possible to integrate the val-IT Flex in line with the production process. Real time presented information about detected failures reduces feedback time and improves delivery quality to the follow-up process. Quality costs, labour costs or penalties for not meeting quality standards are significantly reduced. The return of investment is realized in only a few years.

## GOT CURIOUS?

We can imagine you did. Our current customers did too. Right now our systems are doing their job in different factories. Visit our website to read about some of our customers experiences.

The val-IT Flex is delivered as a turnkey application. You will receive the entire cell including everything necessary to carry out automated inspections. Don't hesitate to contact us for more information or a demonstration!

## SPECIFICATIONS VAL-IT FLEX

val-IT Flex size in mm	1500 x 800 x 2200 (w x d x h)
Objects maximum size in mm	Ø 440 x 240
Depth of view in mm	175
Accuracy in mm	< 0,1
Objects maximum weight in kg	15
Average scanning time in s	20
Air pressure in bar	n/a
Power in Volt	230
Power in KVA	1,5
Data communication	Gigabit-Ethernet

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