

SPEED Flow 5D combination



The best of both worlds.

Double protection with the combined 5D system.

The features of SPEED Film & SPEED Cube systems join to make a »5D« system, which is predominantly suitable for performing inspections after heat processes or for Mounted PCB soldering areas.

Of course, an individually adapted system structure shall be created to perfectly correspond with the respective requirements.

SPEED

Up to **260 cm²/s**

ACCURACY

Up to **12 µm**

Repeatability ± 20 µm @ 6 Sigma

CHARACTERISTICS

- ✓ High speed – up to 260 cm²/s
- ✓ Maximum accuracy – up to 12 µm
- ✓ Repeatability ± 20 µm @ 6 Sigma
- ✓ Innovative patented light technology
- ✓ **NEW:** Inspections after heat processes (e.g. reflow soldering, selective soldering, wave soldering)

INSPECTION PERFORMANCE

Resolution	Speed
12 µm	100 cm ² /s
16 µm	180 cm ² /s
18 µm	150 cm ² /s NEW: 260 cm ² /s (2nd Cam)
21 µm	250 cm ² /s

SYSTEM MODELS

- Inline
- Offline
- Integration in existing system (e.g. handling system, printer, etc.)
- Also available as table-top system with fully automatic handling for small products (macCube: mini automation cell)
- LEAN production cell

OPTIONS

- Offline programming unit
- Good-bad functions
- Testing unit
- Bar code reader
- Electrical width setup
- Flat Conveyor belt drive
- Round belt drive
- MES system communication
- CSV export

LIGHTING

- **Colour top lighting** provides information about the meniscus shape
- **Top lighting** highlights individual components
- **3D lighting** provides information about pins and coplanarity

SOLDER JOINT

- > Soldering ball / soldering drop
- > Error during soldering
- > Meniscus analysis
- > Lifted leg
- > Less solder
- > Bridging

COMPONENT

- > X/Y-offset
- > Rotation
- > Incorrect form
- > Tombstone
- > Upside down
- > Coplanarity
- > Polarity error
- > Wettability
- > Missing
- > OCV
- > Billboarding

BASE SIZE

Length	70 – 460 mm
Width	50 – 460 mm
Thickness	0,8 – 4 mm
Weight	up to 5 kg
Component space	± 30 mm at the top, 50 mm at the bottom

SYSTEM CONFIGURATION

Transport height	850 mm – 950 mm ± 50 mm
Transport width	max. 460 mm
Interface	SMEMA, Siemens
Transfer direction	left to right, right to left, bidirectional
Operating side	front
Fixed rail	front

INSTALLATION REQUIREMENTS

Power supply	230 V / 115 V, 50 / 60 Hz, ± 10 %
Electrical network	L1 + N + PE
Power input	2.4 kW
Compressed air connection	6 bar
Air consumption	<12 NI/min

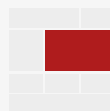
MACHINE DESCRIPTION

	2 segments	3 segments
L x W x H	1060 x 1200 x 1800 mm	1590 x 1200 x 1800 mm
Netto weight	approx. 450 kg	approx. 450 kg
Color	Basic Light	Basic Light
Noise level	< 75 dB	< 75 dB



QUICK

All sources are being checked – no loss of speed, with all details.



MODULAR

Our modular concept makes it possible to individually combine random options, for example, product resolution, speed and size.



ACCURATE

Our promise of quality: accurate laboratory measurements, now available for your manufacturing process.