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MJB4 Mask Aligner

(ID# 3685) Video 1 -

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Mask Aligner (ID#

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MA150cc Mask

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~~Karl Suss Mask~~

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~~(ID# 3590) Video 1 -~~

~~Karl Suss MA6 BSA~~

~~Mask Aligner (ID#~~

~~3697) EVG 620~~

~~MASK ALIGNER~~

~~SYSTEM (ID# 4215)~~

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~~Suss MJB3 Mask~~

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Photolithography

How do they make

Silicon Wafers and

Computer Chips?

Photolithography

Process

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Waferless Aligner

Orthognathic Surgery

with DePuy Synthes

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Sputtering and

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Operating Procedures

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~~300mm Lithography
Systems from SUSS
Microtec~~

Basic Operations

Training of EVG 620

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Suss PA-200 Probe

Station Suss MJB3

350W BSA IR Mask

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Aligner (ID# 3876)

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Flood Exposure

System

Photolithography 4/4

Gowning Procedures

at INRF / BiON

Cleanrooms noc19

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Operation

Introduction The Karl

Suss Contact mask

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aligner (MA6/BA6)

has become our
workhorse

lithographic imaging
system in the UTD
Clean Room Lab. It is
a versatile system
allowing us to pattern
a variety of substrates
from 3 to 6 inch
round wafers, to a
large assortment of
sizes and shapes of
smaller substrates of

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various materials.

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University of Texas ...
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lithographic imaging
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Clean Room Lab. It is
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large assortment of
sizes and shapes of
smaller substrates of
various materials.

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Aligner Operation -
Office of Research
1 – select the
multiplier required (1

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s, 10 s, 1 m, 10 m, 1 h, 10 h) by aligning the small Black Arrow () on the timer face plate with the multiplier. 2 – Adjust the timer pointer (0-3) to the correct value. Ex. 4 sec exposure = “ 0.4 ” on the pointer and “ 10 s ” on the multiplier.

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KARL SUSS MJB3

Contact Mask Aligner
Equipment Operation

...

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Aligner Operation

SUSS MA1006

operator manual 1

General description

and principles of

operation 1.2.7 First

mask exposure For

the first layer there is

no alignment of mask

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to wafer necessary.

During this mode the alignment chuck is always in middle

position, so that the following layers can be easily aligned.

1.2.8 Exposure

Op Manual Ma6

The Karl Suss MA-6

Contact Aligner

system can perform precision mask-to-

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wafer front- or back-side alignment and near-UV photoresist exposure in hard- and soft- contact, as well as high and low vacuum contact; proximity is not available. Our current configuration accommodates 3", 4" and 6" wafers and pieces. SNF has two MA-6 aligners

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(karlsuss and
karlsuss2).
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Karl Suss MA-6

Contact Aligner 2
(karlsuss2) | Stanford

...

If the Mask holder is
inside the mask
aligner machine,
bring it out, flip it
180 degrees and put
it on the tray outside.
If a mask is loaded on

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the mask holder press
ENTER to toggle the
mask fails and
remove the
mask.-Place your
mask onto the mask
holder against the
stop pins. Turn the
vacuum on by
pressing the ENTER
key. Activate the
mechanical mask

KARL SUSS MA6/BA6

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Mask Aligner Users

Manual

View the SOP

documentation [http://](http://www.inrf.uci.edu/sop-ksma6/)

[www.inrf.uci.edu/sop-](http://www.inrf.uci.edu/sop-ksma6/)

[ksma6/](http://www.inrf.uci.edu/sop-ksma6/) The Karl

Suss Mask Aligner

performs high

resolution

photolithography. It

offers unsurpassed

fle...

Karl Suss MA6 Mask

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Aligner - Standard

Operating Procedures

Press "load" and pull

the wafer loading

chuck out. b. Press

“ enter ” to turn on

the vacuum. If your

sample does not

cover all vacuum

holes, MA6 will

report “ a loss of

vacuum ” . c. Press

“ enter ” to

acknowledge that and

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proceed without
vacuum. Regardless
of the size of your
sample, always place
it into the center of
the chuck and make
sure that it covers all
open vacuum holes.

Karl Suss MA6 Mask
Aligner Standard
Operating Procedure
Karl Suss MJB4 Mask
Aligner Standard

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Operating Procedure

QUICK GUIDE

PROCEDURE

OVERVIEW 1. Check the initial condition of the mask aligner 2.

Load the mask 3.

Load the substrate 4.

Wedge error compensation

(optional) 5. Select the correct

parameters 6.

Perform alignment

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(optional) 7. Exposure

8. Operation The

University Of
MJB4 Mask Aligner

SOP - Princeton

University

Press the Change

Type button and

choose Proximity,

Soft or Hard Contact.

(Vacuum contact is

only available with

the 3 inch chuck.)

Now press Page 1

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and adjust values

according to what
you want. Press the
Return button when

finished. Next press

Page 2 and adjust

values according to

what you want.

Karl Suss Aligner -

BYU Cleanroom

Karl Suss Contact

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operator manual 1

General description
and principles of

operation 1.2.7 First

mask exposure For

the first layer there is

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During this mode the

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following layers can

be easily aligned. ...

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KARL SUSS MJB3
MASK ALIGNER
STANDARD
OPERATING

PROCEDURE Purpose
of this Instrument:

This instrument is for
patterning
photosensitive
polymers with UV
light. Location: White
Hall 410 Cleanroom

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Primary Staff Contact:

Harley Hart (412)

443 -1514 (M) (304)

293 -5847 (O) Office:

White Hall 409 harle

y.hart@mail.wvu.edu

Secondary Staff

Contact:

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MASK ALIGNER

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PROCEDURE

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Aligner Operation

The Karl Suss Contact
mask aligner

(MA6/BA6) has

become our

workhorse

lithographic imaging

system in the UTD

Clean Room Lab. It is

a versatile system

allowing us to pattern

a variety of substrates

from 3 to 6 inch

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round wafers, to a
large assortment
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MicroTec

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The University Of
Contact: Quinn
Leonard

(qleonard@wisc.edu,
608-890-3030)

Center: NFC. Location:
Engineering Centers

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Building 3rd Floor

Cleanroom. The

MA6/BA6 aligner can

accept square masks

4 " , 5 " , or 7 " on a

side. Substrate chucks

accept round wafers

with diameters of 3 " ,

4 " , or 6 " ; a

" pieces " chuck

provides some limited

capabilities to expose

small or oddly-shaped

substrates, but be

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advised that it is more difficult to achieve consistent results with such materials.

Suss MA6

Lithography Aligner
– Wisconsin Centers
for ...

Testing Vacuum

Contact Mode

Operation: The best way to test this mode is by using the

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“Alignment Check”
button. When the
sample is aligned and
ready for exposure,
pressing this button
will bring the wafer
into contact with the
mask and the Vacuum
sequence will run. If
the result is good, you
can then just press
the “Exposure”
button.

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Karl Suss MA6 Mask

Aligner SOP

SUSS MicroTec offers

a complete range of

mask aligners for

high-end fab

automation, high

volume production

and R&D

environments alike.

SUSS MicroTec

designs their mask

aligner systems for

lithography

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applications in the
field of 3D packaging,
advanced packaging,
MEMS, LED,
compound
semiconductors,
power devices,
photovoltaic,
nanotechnology and
wafer-level optics.

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Operation Page 9 of

31 Document

Number:

SP2008-LI-002

5/1/2019 Author:

Roger Robbins Lamp

Power Supply The

lamp that supplies the

Ultra Violet (UV)

exposure energy for

the tool is located in a

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large black finned box behind the microscope assembly, (Figure 1). It Karl Suss

...

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Aligner Operation
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Operation procedure
1. Make sure that the dry nitrogen gas line is on outside the cleanroom. The

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aligner also requires the compressed air and vacuum lines to be operational. 2. On the right hand side of the aligner ' s microscope assembly is a vertical glass tube, this is the nitrogen gas indicator. There are switches on the box next to this ...

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Karl Suss Mask

Aligner - Imperial
College London

Part I of the training
video for the Aligner:
MA6 - 2 inside the
Danchip cleanroom
facility at DTU in
Denmark, covering
basic operation.

Equipment

manufacturer: SUSS

MicroTec. Equipment

model: MA6.

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