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ASML In 1 Minute

*In 1984, ASML's first office was a
shed outside a Philips building.
Just 30 years later, all of the
world's top chipmakers are our
customers. What made us wh...*

CMi - Center of

MicroNanoTechnology

*The PAS 5500/350C system
provides a very cost-effective mix-
and-match lithography solution
when used in conjunction with
other ASML PAS 5500 i-line and
DUV steppers. Technical
Specifications Lens Wavelength:
248 nm NA: 0.40-0.63 Intensity*

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annular: 225 mW/cm² Uniformity
annular: $\leq 1.4\%$

*ASML Pass 2500/40 stepper
Customer benefits of ASML PAS
5500 lifetime extension until
2030 • Continue to use existing
PAS IB at low operational costs •
No requalification of existing
products needed • No transfer of
products & processes to new /
other fab Guaranteed availability
of parts, keeping the system alive
Core tool value of system refurb
Fab continuity at low*

*www.chiphistory.org
Introduction For the project to
extend the product-life-cycle of
the PAS 5500 systems to 2030
(PAS-2030), we are looking for a
mechanical design engineer in*

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our MPS (Mature Products &

Services) D&E (Development &

Engineering) team. In the

PAS-2030 project we will redesign

the service parts and tools of the

PAS 5500 systems.

**ROCHESTER INSTITUTE OF
TECHNOLOGY MICROELECTRONIC**

...

*The PAS 5500/350C is a Deep UV
stepper for 0.15- μm applications
and beyond. The high productivity
and low cost of ownership allow
capacity extensions in existing
DUV stepper fabs as well. The
PAS 5500/350C system provides a
very cost-effective mix-and-
match lithography solution when
used in conjunction with other
ASML PAS 5500 i-line and DUV ...*

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PAS 5500/275D - ASML

PAS 5500/400 Step & Scan

Alignment System from ASML.

Though not the first step & scan system—that honor goes to Perkin Elmer—this unit was the second step & scan system released by ASML. It was such a success that it soon propelled them into the leading supplier's position.

*Our history - Supplying the semiconductor industry - ASML
The PAS 5500: a machine with a history . Before EUV, before immersion, and even before our TWINSCAN systems, there was the PAS. In 1991, seven years after the company was founded, we launched the PAS 5500, which turned out to be our*

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breakthrough platform.
Coat

From the ASML archives: "PAS 5500 - The Inside Story" (1993) Photolithography: Step by step Jae-Hwang Lee. Loading ... Introduction to Photolithography - ... 25:42. Inrfucirvine 48,822 views. 25:42. From the ASML archives: "PAS 5500 - The Inside Story" ...

ASML - PAS 5500/400, Step & Scan System - Chip History ASML Pas 2500/40 stepper. Name. I-Line (365nm) stepper with working resolution of 0.7 micron. Application. IC production on 3, 4, 5 and 6 inch wafers. Characteristics. The PAS 2500/40 stepper uses a 0.40NA i-line lens with a 21.1mm image field

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diameter. This stepper is optimized for sub 0.7micron production resolutions using i-line processes ...

*Photolithography: Step by step
From the ASML archives: "PAS 5500 - The Inside Story" (1993) - Duration: 7:14. ASML 24,985 views. 7:14. ASML - Powering the Next Phase of Semiconductor Manufacturing - Duration: 3:35.*

Lithography Using ASML Stepper - diyhpl

Within the year, we launched a breakthrough platform, the PAS 5500. With its industry-leading productivity and resolution, the PAS 5500 brought on board the key customers that ASML needed to turn a profit. It was a first step

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to maturity. In 1995, ASML became a fully independent public company, listed on the Amsterdam and New York stock exchanges.

PAS 5500/350C - ASML

Explore ASML products and services that optimize the chip-making process, including our advanced lithography machines and metrology tools. ... We refurbish 'classic' PAS 5500 and TWINSCAN lithography systems for a new life and a new purpose. Read more. Metrology & inspection systems.

ASML zoekt een PAS 5500

*Mechanical Design Engineer in ...
ASML Alignment and Exposure
DEFINITIONS ASML (today) - ASM*

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Lithography (1988) - ASM

*International and Royal Phillips
(1984) PAS - Phillips Automatic
Stepper as in ASML PAS 5500/200
Reticle - quartz plate with single
layer of chip layout (or array) at
5X actual size (also called
photomask) PM - primary marks
(same design for mask and wafer
alignment)*

*Introduction To Asml Pas 5500
The PAS 5500/850C 248-nm Step-
and-Scan system enables 110-nm
mass production. Since the initial
introduction of the PAS 5500/850,
the PAS 5500/850 series have
become the worldwide standard
for both 110-nm logic and 110-nm
memory applications. The PAS
5500/850C can be configured*

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*Alignment And Zero Exposure
Goal*
with a number of options that
enable ultra low-k 1 in

*ASML products & services |
Supplying the semiconductor ...
PAS 5500/275D High Productivity
i-Line Stepper Description The
PAS 5500/275D is an i-line
stepper stretching resolution
down to 0.28 μm and beyond. It is
built on the success of the proven
PAS 5500/250C advanced i-line
stepper. The PAS 5500/275D
features improved imaging
achieved by applying the latest
techniques in lens*

*Refurbished systems - Products -
ASML*

*ASML PAS 5500/350C DUV
Stepper. Precautions and
Warnings . Wafer flatness*

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specifications: To be able to print patterns at a resolution $< 200\text{nm}$, the ASML stepper uses a lens with a high numerical aperture (NA) tunable from 0,5 to 0,7. The disadvantage of working with such a lens is that the depth of focus is limited to about $\sim 1\mu\text{m}$.

*200 mm fabs are here to stay!
PAS Life time extension program
From the ASML archives: "PAS
5500 - The Inside Story" (1993)
ASML. Loading... Unsubscribe
from ASML? Cancel Unsubscribe.
Working... Subscribe Subscribed
Unsubscribe 8.3K.*

*PAS 5500/850C - ASML
Learn about our career events
held around the world, where you
get to know ASML as an*

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employer. Career events Explore
careers at ASML and join the high-
tech semiconductor industry,
where you can work on
technology that can change the
world.

*30 Years of ASML - From Shed To
World Leader
www.chiphistory.org*

*PAS 5500 Mechanical Design
Engineer - asml.com
Lithography Using ASML Stepper
Page 1 ROCHESTER INSTITUTE OF
TECHNOLOGY MICROELECTRONIC
ENGINEERING Revision Date:
4-28-2014 Lithography-ASML.PPT
... INTRODUCTION (cont.) The
ASML PAS 5500 uses wafer
alignment marks that are
diffraction gratings. There are*

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marks for both the x and y
directions.

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087](https://doi.org/10.26434/chemrxiv-2024-2ff7b)