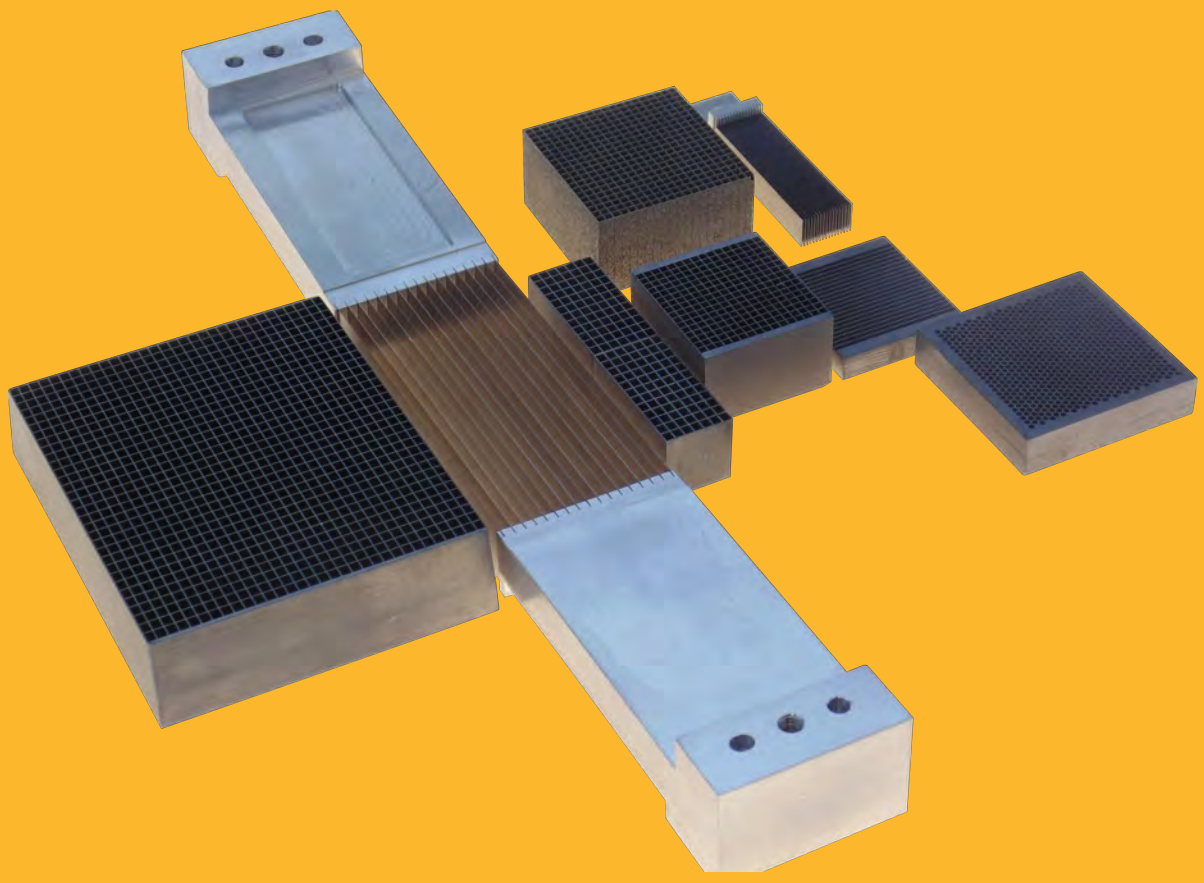
Collimators
&
Anti-Scatter Grids



NUCLEAR
SHIELDS

NUCLEAR SHIELDS

IMAGING

IMPROVE YOUR IMAGE CONTRAST

AND MANY OTHER APPLICATIONS

NUCLEAR SHIELDS

COLLIMATORS/ ANTI-SCATTER GRIDS
FOR GAMMA & X-RAY

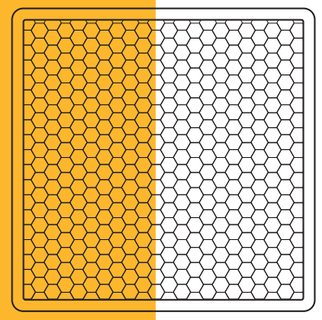
Improve your image contrast with collimators/ anti-scatter grids. Our factory has more than 40 years of experience in manufacturing lead and tungsten collimators/ anti-scatter grids.

MATERIALS

Lead
Tungsten

TYPES OF COLLIMATORS

Parallel hole
Slanthole
Converging
Diverging
Fanbeam
Pinhole



FEATURES

- Improve your image contrast
- 40 years of experience
- Manufactured in-house
- Square - round - hex holes

LEAD AND TUNGSTEN COLLIMATORS

By using the most precise and linear collimators/anti scatter grids made from lead or tungsten, we can make sure that the collimator we deliver will improve the contrast in your image for your pixelated detector. Our collimators can be produced to exactly line-up with the pixel separation within high tolerances giving you the best full pixel exposure. Our collimators and anti-scatter grids can be used for different applications like nuclear medicine, radiology, radiotherapy, homeland security and electron microscopes.

DEVELOPMENT SUPPORT

We can help you develop a collimator for your gamma camera, gamma detector, solid state detector, PET camera, CT camera or X-ray machine to your specific requirements. We have experience with the collimator in the construction of an MRI-compatible SPECT collimator for MRI / SPECT hybrid imaging devices.

DIFFERENT TYPES OF COLLIMATORS

We have been producing many collimators for more than 40 years. Different types of collimators include: parallel hole, slanthole, converging/diverging, fanbeam and pinhole.

NUCLEAR SHIELDS

LEAD PARTS

CUSTOM LEAD PARTS

SHAPED TO YOUR EQUIPMENT

NUCLEAR SHIELDS

CUSTOM LEAD PARTS
RADIATION SHIELDING

Lead parts manufactured according to your drawings and specifications with an optional adhesive layer for easy integration into your x-ray equipment.

STANDARD LEAD SHEET PARTS

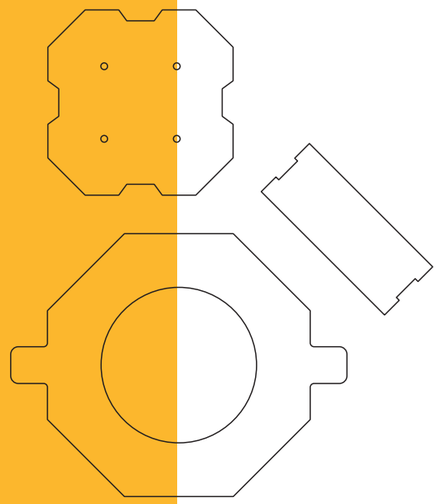
Maximum dimensions	1000 x 3000 mm
Shielding material	Lead
Shielding thickness	Up to 3 mm

ADHESIVE LEAD SHEET PARTS

Maximum dimensions	1000 x 3000 mm
Shielding material	Lead
Shielding thickness	Up to 2 mm

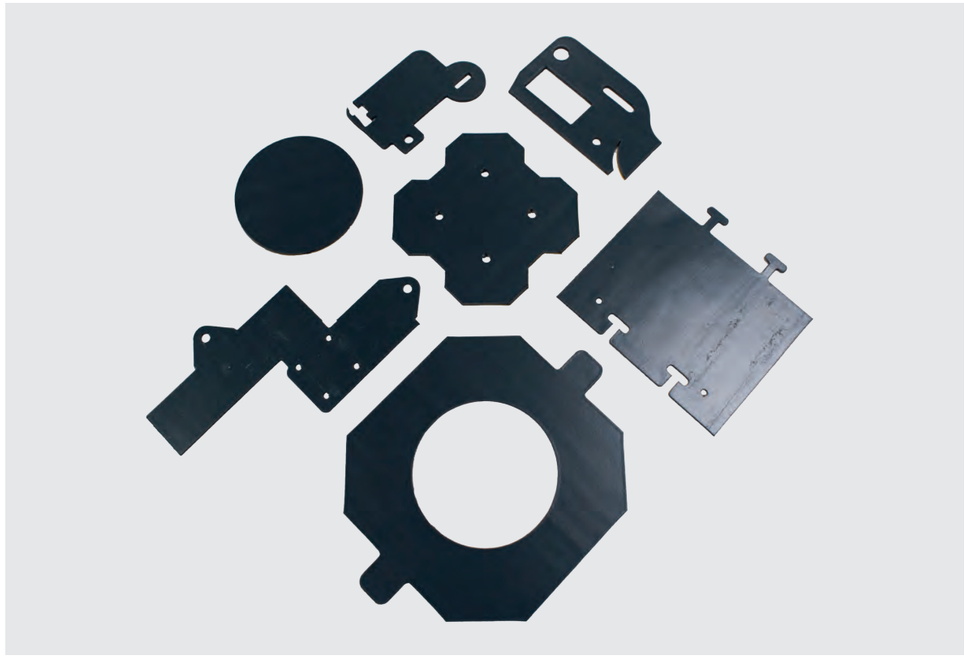
CNC MACHINED LEAD

Maximum dimensions	Any size
Shielding material	Lead
Shielding thickness	Any thickness



FEATURES

- Easily integrate into your x-ray equipment
- Shorten prototyping times
- Also available with adhesive layer
- Can be assembled into full cover parts



ADHESIVE LEAD PARTS

Our in-house CAD/CAM design team can design the adhesive lead parts to fit your x-ray equipment or other machines when no drawings are already available. Our factory is designed to meet requirements for long-term serial production, making sure your custom lead parts can be steadily produced over a longer period of time while maintaining a high quality. Prototypes can be delivered upfront to make sure the quality is as expected. Our production facility is capable of producing anything from small volume orders to producti-on runs of 1000s. We always keep plenty of adhesive lead sheets in stock.

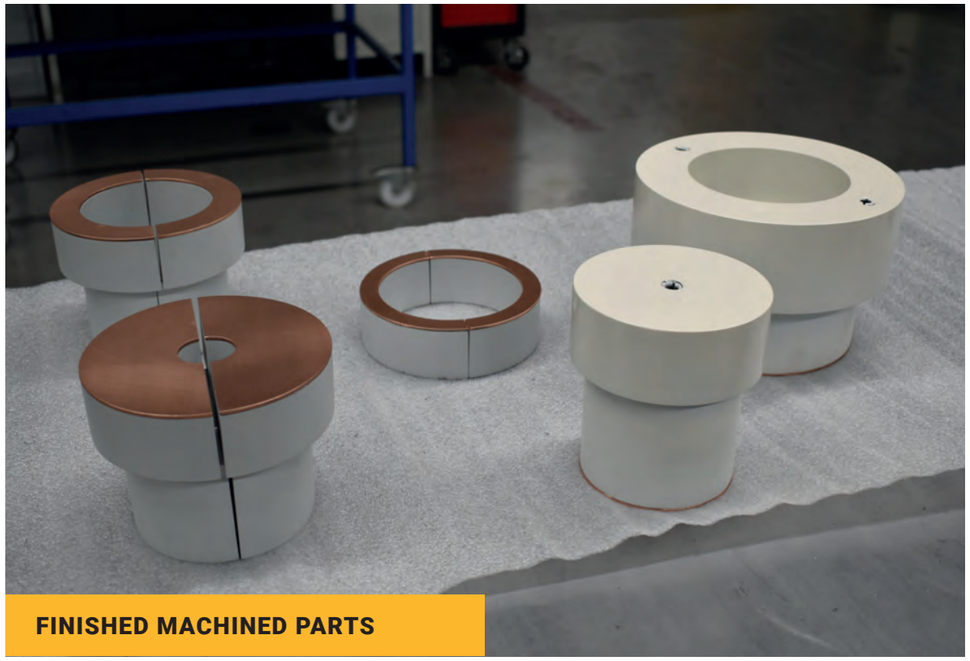
FINISHING

The standard finish of the adhesive lead parts is a RAL 7016 paint, which is an anthracite grey color. A special contaminable paint is available for situations where the lead parts might become contaminated. If preferred, the lead could be untreated. However, it is recommended to prevent exposure to lead for health and safety reasons.

CNC MACHINED LEAD PARTS

Nuclear Shields can also CNC machine lead parts when small parts with a thickness of up to 3 mm lead is not enough. These machined parts have no specific maximum thickness and can be produced based on customer drawings or assisted by our in-house CAD/CAM design team. One example of CNC machined lead part uses is detector shielding boxes for x-ray equipment.

RAW MACHINED LEAD PARTS



FINISHED MACHINED PARTS

RAW CASTED LEAD PARTS

ADHESIVE LEAD PARTS

FOR ALL YOUR SHIELDING PROJECTS.

OUR FACTORY

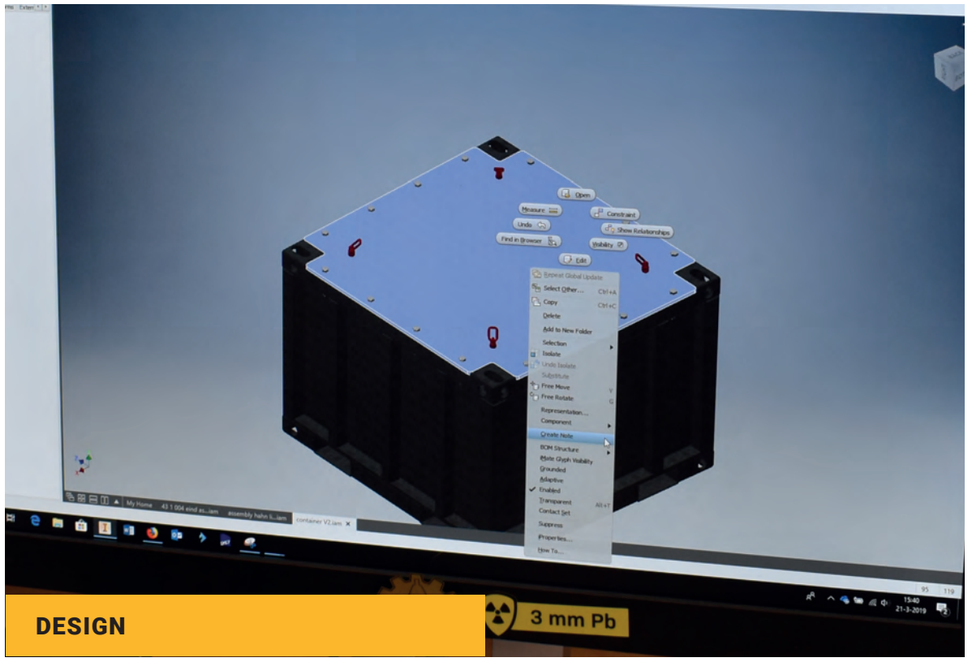
Nuclear Shields is part of the Van Mullekom Group which was founded in the Netherlands 50 years ago. The company is privately owned and has factories in The Netherlands and Australia. All factories share a common ground in engineering and radiation shielding. Our factory is designed to meet requirements for long-term serial production, but we also design and manufacture a lot of custom made solutions.

PRODUCTION DEPARTMENTS

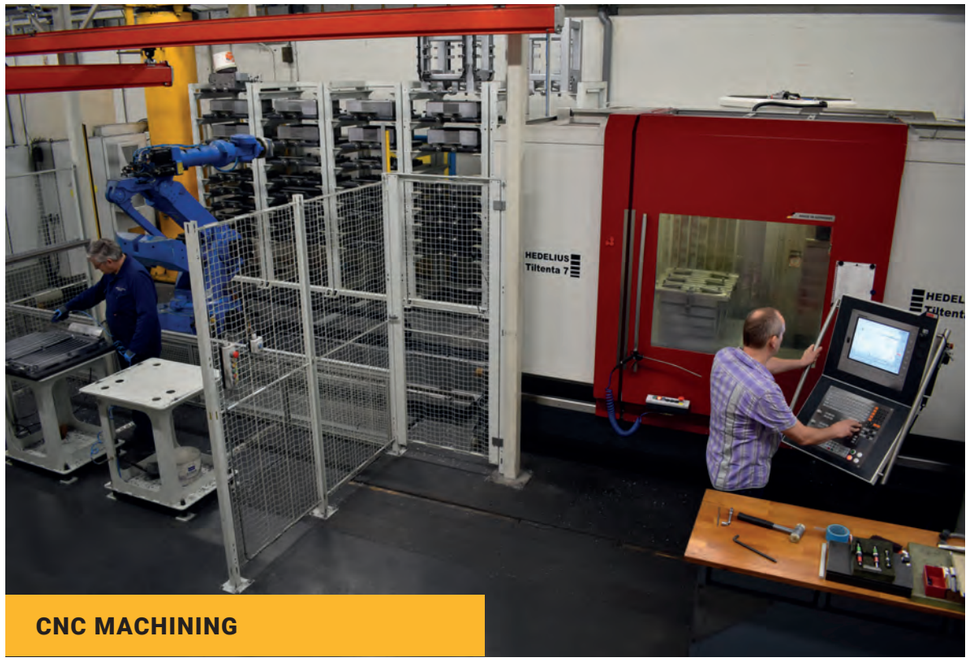
The in-house capabilities of the Van Mullekom Group range from prototyping to full assembly, which enables us to provide a wide range of solutions for a low price, high quality and with quick customer service.

- Full CAD/CAM design
- CNC machining department (5-axis, milling and turning)
- Spray-painting department
- Lead casting department
- Assembly department
- QC department, including CMM and gamma cameras

LEAD CASTING

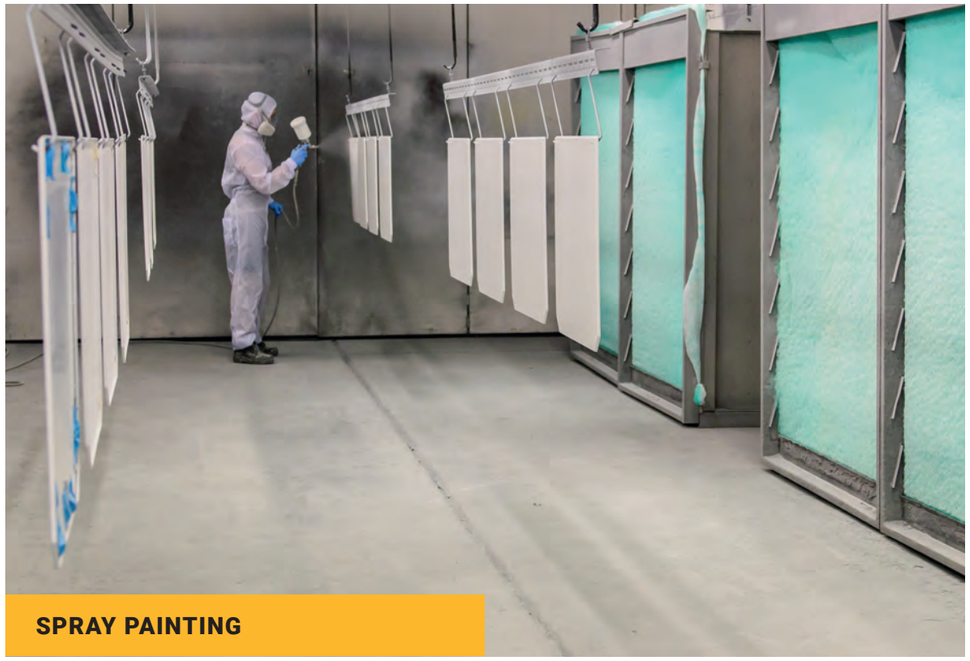


DESIGN



CNC MACHINING

WELDING



SPRAY PAINTING

ASSEMBLY

QUALITY CONTROL

NUCLEAR SHIELDS

Sales & Aftersales:

Nuclear Shields B.V.
Akkervoortweg 5
5827AP, Vortum-Mullem
The Netherlands

Tel. nr. : +31 (0)485561140
E-mail : info@nuclear-shields.com
Web : www.nuclear-shields.com
VAT : NL857196881B01

ABN AMRO BANK
IBAN : NL94ABNA0246385561
BIC : ABNANL2A

Chamber of Commerce Eindhoven
reg. nr. : 67846769

Production:

Nuclear Fields International B.V.
Akkervoortweg 5
5827AP, Vortum-Mullem
The Netherlands

Tel. nr. : +31 (0)485561111
E-mail : info@mullekom.nl
Web : www.nuclearfields.com
VAT : NL004068592B01

ABN AMRO BANK
IBAN : NL45ABNA0640554091
BIC : ABNANL2A

Chamber of Commerce Eindhoven
reg. nr. : 16036782