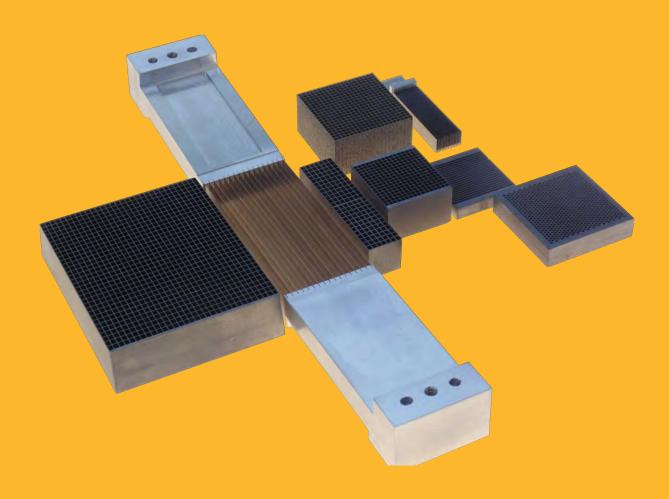


# Collimators & Anti-Scatter Grids









# **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**

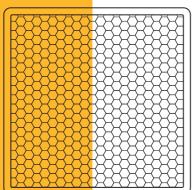
Lead Tungsten

#### **TYPES OF COLLIMATORS**

Parallel hole Slanthole

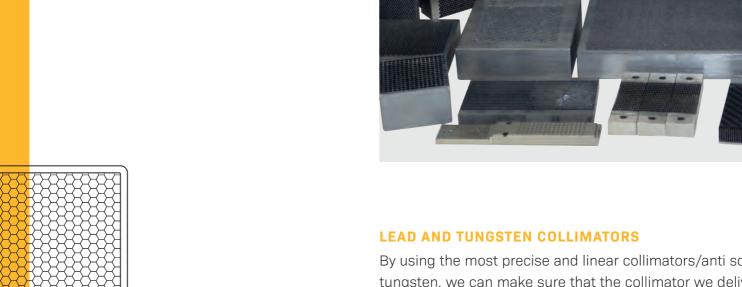
Converging
Diverging
Fanbeam

Pinhole



## **FEATURES**

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



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.

MICRO

MSTINIS

#### **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.





# **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**

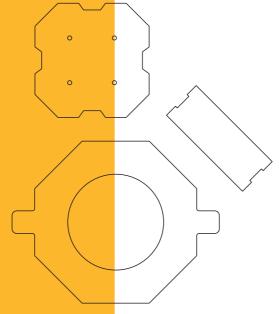
Maximum dimensions 1000 x 3000 mm

Shielding material Lead Shielding thickness Up to 2 mm

#### **CNC MACHINED LEAD**

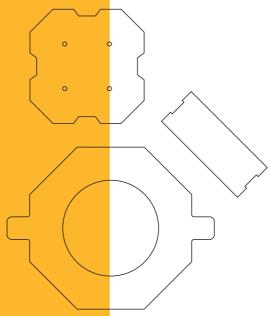
Maximum dimensions Any size Shielding material Lead

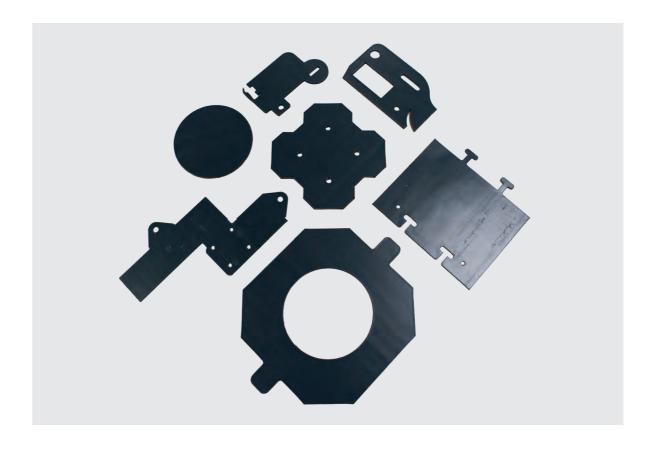
Shielding thickness Any thickness



## **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 production runs of 1000s. We always keep plenty of adhesive lead sheets in stock.

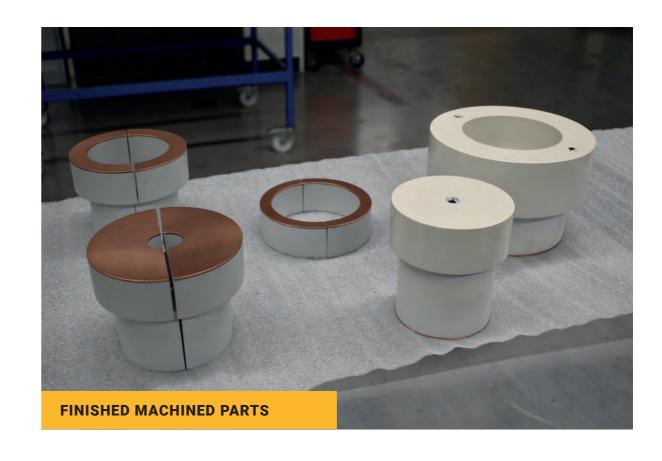
#### **FINISHING**

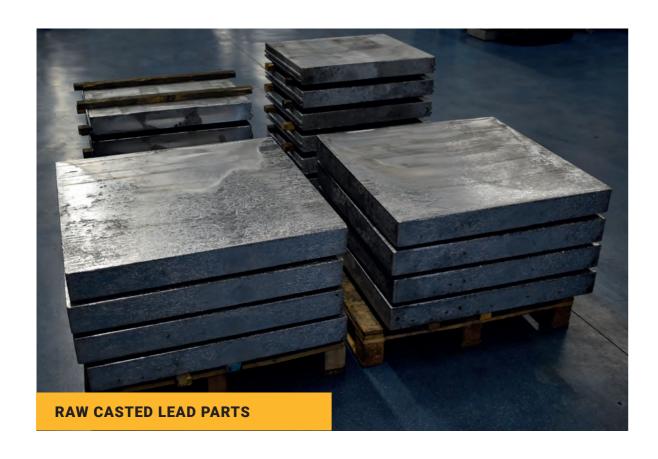
The standard finish of the adhesive lead parts is a RAL 7016 paint, which is an anthracite grey color. A special contaminable paint is available for situations where the lead parts might become contaminated. If preferred, the lead could be untreated. However, it is recommended to prevent exposure to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









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# FOR ALL YOUR SHIELDING PROJECTS.

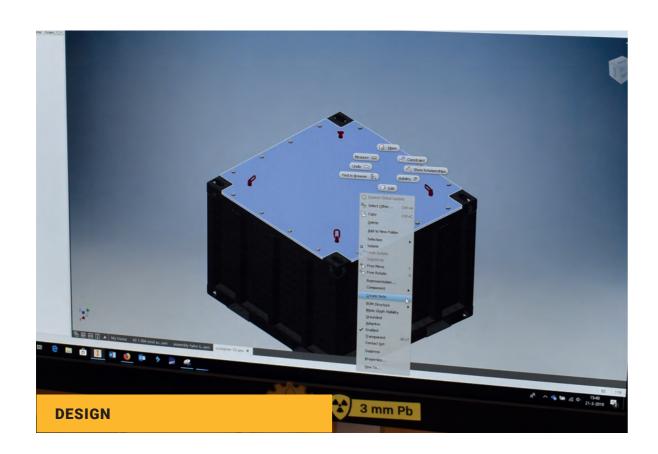
## **OUR FACTORY**

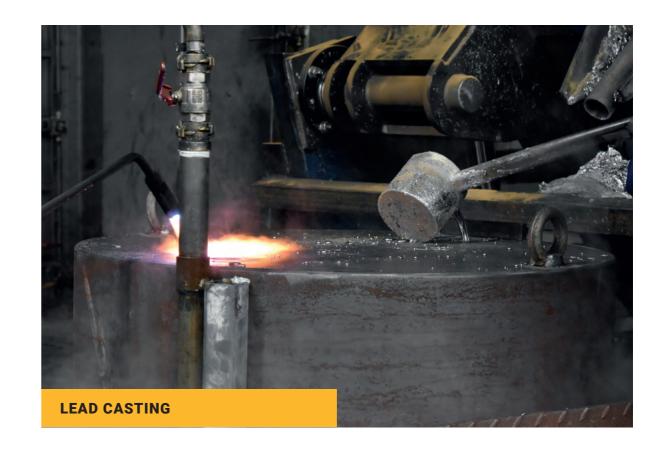
Nuclear Shields is part of the Van Mullekom Group which was founded in the Netherlands 50 years ago. The company is privately owned and has factories in The Netherlands and Australia. All factories share a common ground in engineering and radiation shielding. Our factory is designed to meet requirements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

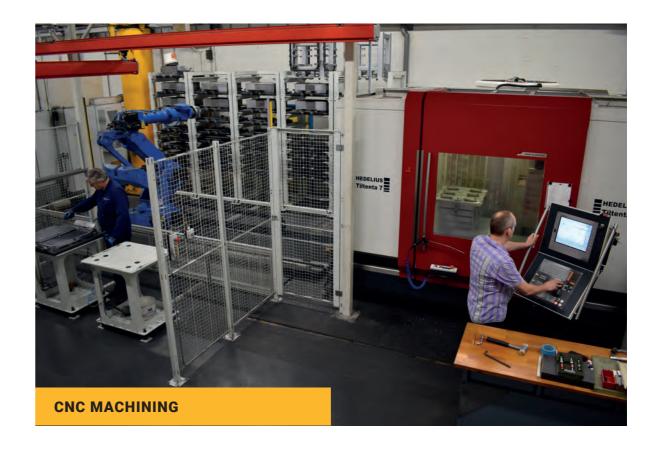
#### **PRODUCTION DEPARTMENTS**

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



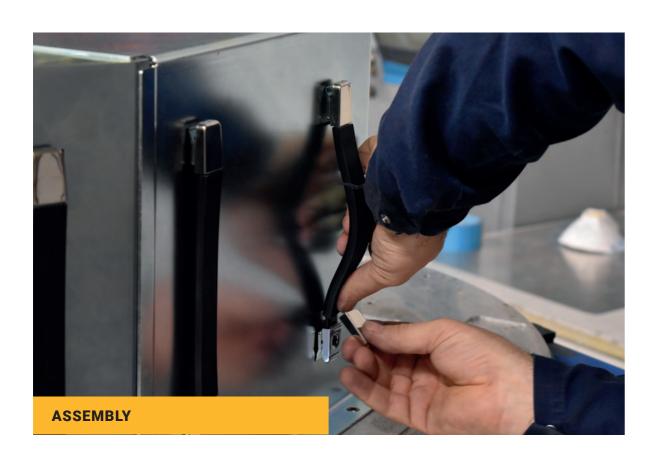




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# **Sales & Aftersales:**

#### **Nuclear Shields B.V.**

Akkervoortweg 29 5827AP, Vortum-Mullem The Netherlands

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

: NL857196881B01 VAT

### **ABN AMRO BANK**

: NL94ABNA0246385561 IBAN

BIC : ABNANL2A

#### **Chamber of Commerce Eindhoven**

: 67846769 reg. nr.

## **Production:**

#### **Nuclear Fields International B.V.**

Akkervoortweg 29 5827AP, Vortum-Mullem The Netherlands

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

#### **ABN AMRO BANK**

: NL45ABNA0640554091 IBAN

BIC : ABNANL2A

#### **Chamber of Commerce Eindhoven**

: 16036782 reg. nr.