

# TER HOEK

## PRECISION SOLUTIONS SINCE 1990

TOMORROW'S INNOVATION,  
TODAY'S INSPIRATION



# Working with “Big Science” organisations!?

TOMORROW'S INNOVATION,  
TODAY'S INSPIRATION





**TNO** innovation  
for life

**eesa**



**SRON**

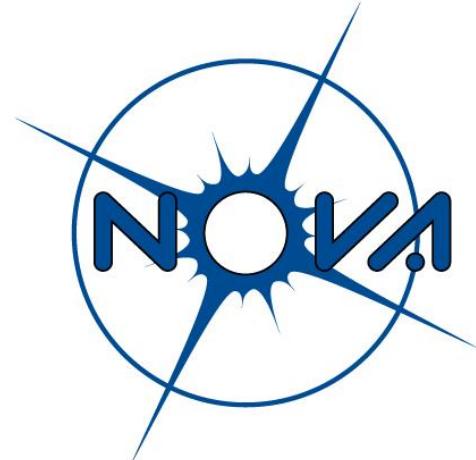
Netherlands Institute for Space Research



TOMORROW'S INNOVATION,  
TODAY'S INSPIRATION

**NRG  
PALLAS**

**Nuclear. For Life.**





At your service are craftsmen who think outside the box and are not afraid to explore new manufacturing possibilities.

Our advanced machinery and climate-controlled production facility guarantees that each piece, regardless of its complexity, is crafted to the highest standards.

# / INNOVATION IS AT OUR CORE





# / HIGH TECH PRECISION SOLUTIONS

Ter Hoek is your partner for precision challenges like:

- Low tolerance (1.0 micron)
- Low surface roughness (0.08 Ra)
- Difficult geometric shapes
- Hard materials
- Thermal stress
- High cleanliness standards



WIRE EDM



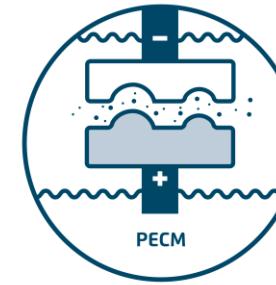
MICRO EDM  
MILLING



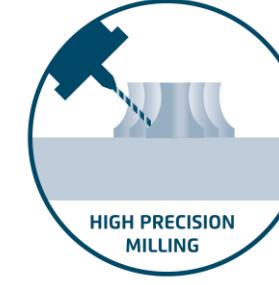
DIE SINKING



HOLE-DRILLING  
EDM



PECM



HIGH PRECISION  
MILLING





# / AS 9100 CERTIFICATION

With over 35 years of expertise, Ter Hoek is not just a manufacturer but your knowledge partner.

Our Aerospace grade AS9100 certification reflects our commitment to quality and reliability, providing you with the confidence that every component we deliver will meet the highest industry standards.



# Thank you!

TOMORROW'S INNOVATION,  
TODAY'S INSPIRATION





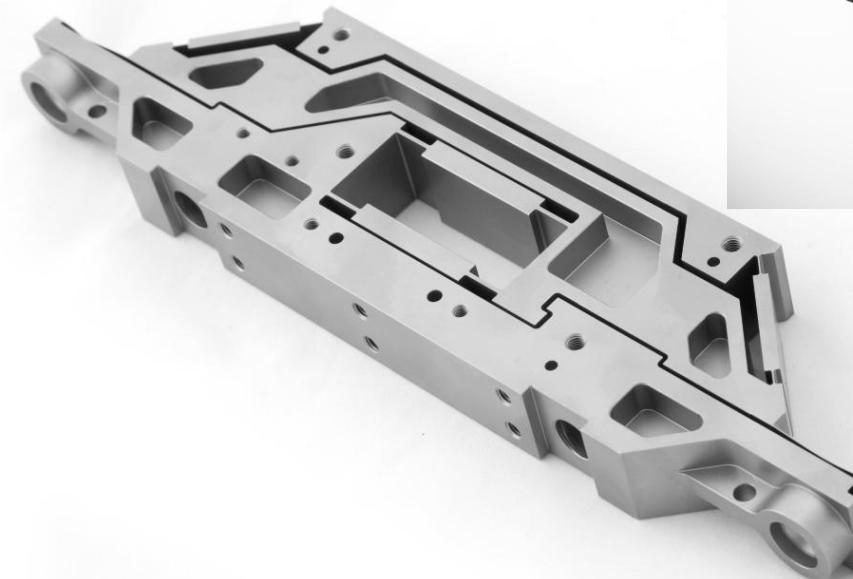
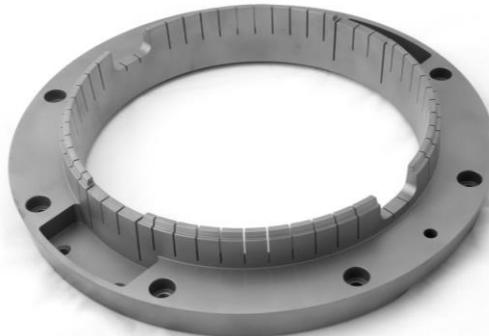
# / HISTORY

1990	Founded by Gerrit ter Hoek
1996	3 Employees
1999	TÜV ISO certified
2006	19 Employees New facility Propaanstraat
2014	New technology: Laser MicroJet
2015	30 Employees AS 9100 Aerospace certification
2016	New Technology: PECM
2020	Tool shop for the PECM department
2022	Willem Jan ter Hoek CEO Expand to 16 wire EDM machines Expand to 3 PECM machines
2023	40 Employees Robotization wire EDM
2024	50 Employees Continuous expansion of machines, new wire EDM machines en 5-axis milling centre



## Technical specifications

Tolerance	0.001 mm
Roughness	0.08 Ra
Wire	0.02 – 0.30 mm
Travel	to 800 x 600 mm
Movement	3 and 4-axis
Height	max. 750 mm
Weight	max. 3,000 kg

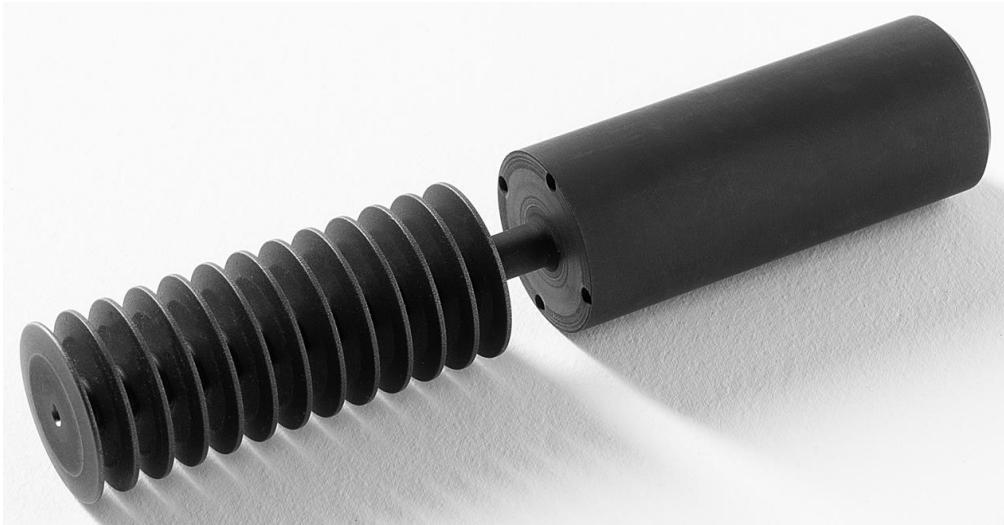




# / DIE SINKING

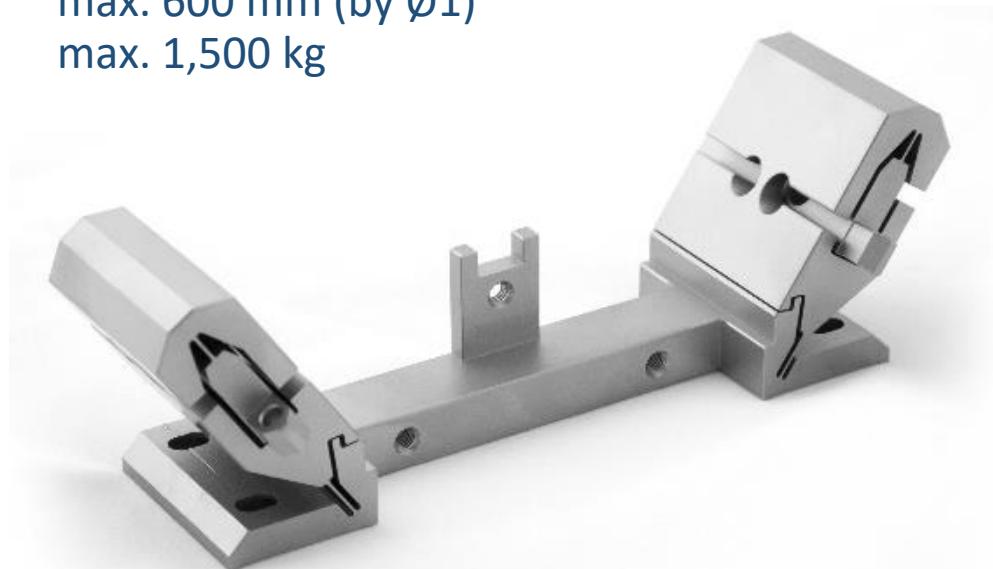
## Technical specifications

Tolerance	0.005 mm
Roughness	0.15 Ra
Travel	to 2,000 x 1,500 mm
Movement	4-axis
Height	max. 600 mm
Weight	max. 4,000 kg



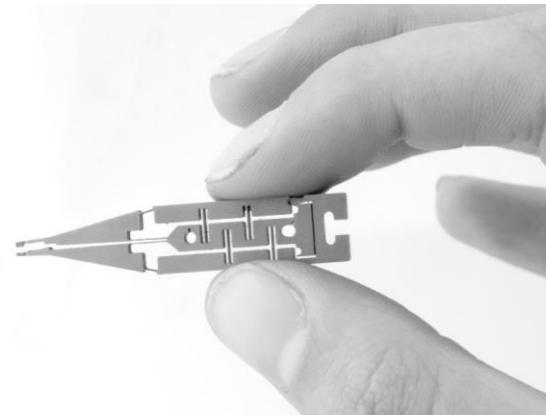
## Technical specifications

Tolerance	0.05 mm
Roughness	6 Ra
Travel	to 600 x 400 mm
Height	max. 600 mm (by Ø1)
Weight	max. 1,500 kg



## Technical specifications

Tolerance	0.001 mm
Roughness	0.05 Ra
Wire	0.02 – 1 mm
Travel	to 350 x 200 mm
Height	max. 225 mm
Weight	max. 50 kg



# / PRECISION ELECTRO CHEMICAL MACHINING

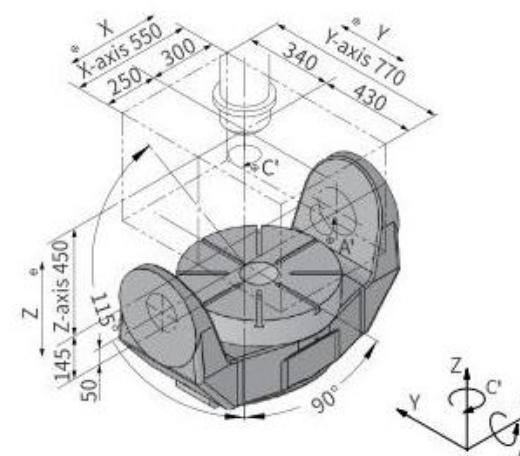
## Technical specifications

Tolerance	0.003 mm
Roughness	$Ra \geq 0.02 \mu m$
Table	800 x 400 mm
Height	max. 400 mm
Area limit/run	9,600 mm <sup>2</sup>
Max axis pressure	10,000 N
Max. machining depth	$\pm 80$ mm



## Technical specifications

Tolerance	0.001 mm
Roughness	Sa <10 nm
X/Y/Z Travel	550 / 770 / 450 mm
Workpiece	max. Ø600 x 330 mm
Weight	max. 300 kg



## Equipment

- 3x CMM 3D Measurement Machines
- 1x CMM Quick Vision Measurement Machine
- 2x Keyence Measurement Microscope
  - Type: VK-X1000
  - Type: VHX-5000

