

5-AXIS MACHINING BY ULTRASONIC MILLING



SOREM is a company specialized in industrial optics since 1953. Its one of the few companies to have know-how in utilization of ultrasonic machine. This offer possibility of machining complex materials for sectors where quality and precision are keywords. Our company will support you in design and realization of yours projects in aeronautics, space, defence, food processing industry,...

REALIZATION TYPES :

MACHINING COMPLEX SHAPE ON OPTICAL MATERIALS :



MgF2 Mirror



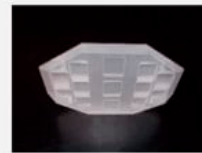
BK7 Tool



Zerodur Tool



Ceramic support



NBK7 Mirror

MACHINING OF POLISHED PIECES :



Sapphire Ring



Sapphire Plate



Silica shoulder
segment window



ZnSe Rhombohedron



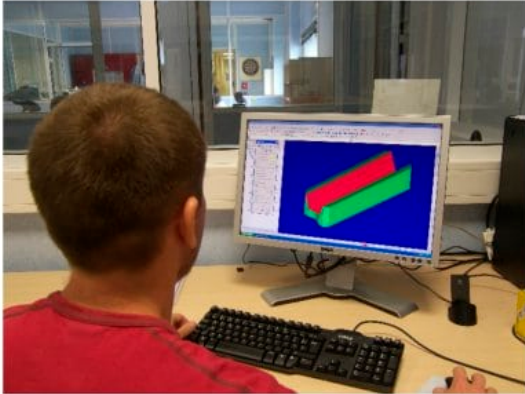
Sapphire Window



SOREM

Materials and Optical Components :
Ultraviolet - Visible - Infrared
Optomechanical systems

A RARE FIELD OF EXPERTISE IN EUROPE :



CAM

Our production managers have received rigorous training in CAM as well as in the use of ultrasonic machines. Today its more than 15 years of expertise in this field.

CAD

For more than 20 years, our industrial designer has supported the design of customers projects, such as THALES, SAFRAN, BOEING, NASA, CEA, ...



THREE-DIMENSIONAL INSPECTION

SOREM enjoys an excellent reputation within its sector of activity thanks to a quality service certified to EN 9100 and ISO 9001 as well as to the reliability of its realizations. We make it a point of honor to support our customers throughout the process : from the study, through the design to the realization of your projects.

MACHINING

We offer a wide choice of machining on rough or polished parts with different materials : Sapphire ; Silica ; Quartz ; Alumina ; Glasses ; CaF₂ ; BaF₂ ; MgF₂ ; Germanium ; Silicon ; ZnSe ; ZnS ; ...

- Maximum parts dimensions : 350 x 350 mm
- General expected tolerances : $\leq 0,05$ mm (50 μ m)

For any quote request, it's necessary to receive a plan of parts to be machined.





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SOME EXAMPLES OF REALISATIONS :



CaF₂ Prism :

Possibility to machine complex shapes.

Machining sapphire plate :

SOREM is one of the few companies to machine sapphire using an ultrasonic head milling machine in Europe.



Silica Globe :

Machining of Silica lighting globe for a submarine.

WOULD YOU LIKE TO CONTACT US ?

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SOCIETE POUR LA REALISATION ET L'ETUDE DE MONOCRISTAUX

