

# Rely on quality, service and expertise

**Durable insulation solutions** for plastic and rubber processing, wood working, and toolmaking and mold construction.



ISOCOS is a new **supplier of insulation products**. We founded this company with a clearly defined goal: **We strive to be the best in quality and service.**

To achieve this goal we have invested in cutting edge production and processing systems. Equipped with the newest machines for processing and production of insulation materials, ISOCOS provides the highest level of quality and short lead times.

# Durable insulation solutions



**Helmut Knoll**

Our goal is the best possible result for our customer. For this reason, quality and precision are our top priority during production.

The basis for our quality and service guarantee is our **expertise, gathered from 20 years of experience** processing and selling insulation materials. We are intimately familiar with the needs of the market. This holds true for machine and system manufacturers as well as for users. In numerous sectors.

Whether plastic or rubber processing, making tools or molds, or in wood working; **every sector, every production process** has specific insulation requirements. The selection of the right insulation material has a decisive effect on the quality of the products as well as on the service life and energy consumption of the production system. Mistakes are expensive and are quickly punished by the market.

Therefore, it is important to be able to rely on a qualified **partner** who can provide all required interfaces for **efficient** data processing and supplies materials that fulfill the required specifications for temperature and pressure resistance, chemical resistance and dimensional stability. And who delivers according to precisely defined, binding delivery times.

**ISOCOS is this partner.**

See for yourself – quality, service and expertise pay off. For you.



**Alexa Benz**

Longtime experience is irreplaceable. Take advantage of our know-how.



**Anke Allmann**

Experience shows: Insulations solutions perfectly customized to the application provide a lasting competitive advantage.



# Numerous sectors – differentiated requirements

## Applications of our insulation materials



### Plastics processing

Applications of ISOCOS insulation materials:  
Insulation of injection molding machines, extrusion and blow molding machines, presses

The requirements for insulation are as diverse as the manufacturing processes in plastics processing. ISOCOS supplies solutions perfectly tailored to the application and the corresponding thermal, mechanical and chemical loads.

Our insulation concepts for injection molding machines, systems for film production or extruders reduce machine wear, lower energy costs, shorten heat-up times and cycles and provide the conditions necessary for consistent quality with precise thermal conditions.

Our solutions are oriented on safe and continuous long-term operation of the systems.



### Rubber processing

Applications of ISOCOS insulation materials:  
Insulation of tire presses, conveyor belt presses, molding presses or systems for hose production

The precise thermal management of systems for rubber processing requires a thought-out insulation concept and exact selection of the individual insulation materials. The quality of the insulation effects low heat loss, short warm-up times and a continually high level of quality over the entire production cycle.

Tires are high-tech products. The rolling characteristics and durability are achieved through finely tuned rubber mixtures. Therefore, the thermal management and the selective heating of the press play a crucial role for production control and the quality of the product.

It is important to minimize heat losses and keep the heat input into the machine as low as possible. This also has a significant impact on the profitability and the energy consumption of the systems.

ISOCOS designs, produces and supplies sophisticated insulation concepts for systems in the rubber processing industry – Whether for full isolation of equipment or partial, strip-shaped insulation with highly insulating materials in intermediate areas, you can build on our long experience and proven combinations of insulating materials.







**cosTherm®**

ISOCOS products for the plastics and rubber processing industry

Applications  
for plastics processing

U.220 E.210 E.230 P.250 S.280 G.500 G.700 A



Applications  
for rubber processing

GU.200 GE.210

GA





**cosTherm®**

ISOCOS products for toolmaking and mold construction and wood working

Applications for toolmaking and mold construction

1300

1600

1660

1000



Applications for wood working

ND.210

HD.210

HD.230

HD.250

HD.280

HD500







## Applications of our insulation materials



### Toolmaking & mold construction

Applications of ISOCOS insulation materials:  
Insulation of molds and tools for injection molding machines, presses, extrusion and blow molding machines

In toolmaking and mold construction, **precision** is of utmost importance. The selection of the insulating materials has a decisive effect on the quality of the end products.

The insulation must have precisely defined material characteristics regarding pressure and temperature resistance and dimensional stability, in particular in systems that work with fast cycle times, as the tool is repeatedly loaded with large stresses.

Both for pressure-transmitting insulation, **which provides the thermal isolation** of the tool from the machine, as well for the **external insulation** of system (essential for producing a uniform heat distribution in the tool) we manufacture **tested high-quality products** with precisely defined material properties according to current standards.

This has to happen quickly, in particular for toolmaking and mold construction as the deadlines are typically tight. We are ready to meet this challenge as a supplier. From data transfer about the machine park to exact manufacture of three-dimensional workpieces and exact, on-time delivery.



### Wood Working

Applications of ISOCOS insulation materials:  
Insulation for continuous-operation presses, short-cycle presses and floor presses

Production systems in wood working are **subject to high thermal and mechanical loads**. Even small temperature fluctuations can negatively effect the quality of boards and coatings.

While the focus for continuously operating presses is controlling the high processing temperatures, for cyclical systems the **compressive strength** and **low creep** are particular important for the insulation, in particular for **short-cycle presses**.

Whether dealing with custom-made piston insulation to protect a sensitive hydraulic system, large heating-plate insulation or the insulation of the frames to avoid deformations of the production system – **ISOCOS realizes durable insulation concepts** that ensure uniform production quality.

Fast delivery times for our insulating materials a matter of course.

When you are trying to minimize down times, you can rely on ISOCOS.



# Our services at a glance

## Production and sales of tested insulation materials for

- > Plastics and rubber processing
- > Toolmaking and mold construction
- > Wood working
- > General machine and plant construction

## Advice

- > Testing and optimization of system insulation

## Service

- > Exact manufacture of insulating panels according to customer specifications
- > Data transfer in all common file formats

## Supply times

- > Delivery possible **within one week** for panels, blanks or custom parts

## ISOCOS emergency hotline

- > Machine down times are expensive. For emergency the ISOCOS hotline is open around the clock: **+49 6349 93941-200**

ISOCOS | Plastics processing | Rubber processing | Toolmaking and mold construction | Wood working | Services

**ISOCOS**   
Quality. Expertise. Service.

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