



## **KRAIBURG PuraSys** **Your PUR Manufactory**

Your partner for complex requirements  
in the field of PUR integral foam



# Acoustic and Vibration Isolation in Construction and Industry



## Competence in Noise and Vibration Reduction Solutions in Construction and Industry

KRAIBURG PuraSys, as part of KRAIBURG Holding, focuses on elastic building and machinery bearings made of polyurethane in the construction and industry sector.

### Why Vibration Isolation?

Industry, transport and housing development are moving ever closer together. The vicinity results in impairment due to sound and vibrations.

### What Problems Do Occur?

Without appropriate measures, for example buildings, the people who live in them, machinery and machine foundations or sensitive components are unprotected against vibrations from the immediate surroundings. Unwanted or impermissibly strong vibrations can also occur in buildings or industrial plants. Secondary airborne noise also increases, as structural elements such as ceilings or walls are stimulated as well.

### Solution

The products PURASYS **vibrafoam** and PURASYS **vibradyn** offer effective protection against vibrations and shocks.

### PURASYS **vibrafoam**

This high-tech PUR elastomer can be used as a flat mat for decoupling between the components, as a cut to size according to the respective component's geometry or as an individually manufactured moulded part. We offer a wide range of 13 standard materials and the possibility to produce special types in various colours and thicknesses according to your requirements.

### PURASYS **vibradyn**

Elastic bearings for buildings whose foundations come into contact with groundwater are particularly problematic and can only be realised with special elastomers. PURASYS **vibradyn** was specifically developed for such high requirements. The closed-cell PUR product for highly effective vibration isolation can be used in application areas such as building isolation – also in groundwater – in a static load range from 0.075 to 1.5 N/mm<sup>2</sup>.



# Acoustic and Vibration Isolation in Traffic



## Competence in Noise and Vibration Reduction Solutions in Rail Traffic

For the railway sector, KRAIBURG PuraSys specialises in sub-ballast mats, bearings for mass-spring systems and other special elastic mountings made of polyetherurethane in the railways superstructure.

### Why Vibration Isolation?

Rail vehicles generate rolling noise and vibrations. This is due to roughness and imbalances both on the wheels and the rail running surfaces.

### What Problems Do Occur?

The vibrations are transmitted to the ground via the track and spread as structure-borne sound. If buildings are located along or near the track, the vibration is also transmitted via their foundations. The buildings begin to vibrate and, with a high enough intensity, they are also perceived by humans as perceptible vibration or as disturbing noise.

### Solution

PuraSys products for track construction are made from high quality elastomer materials. With the extensively tested formulations, the products meet special requirements resulting from the higher loads in the track area.

### Our Services at a Glance

- Material testing and measurement on our own large scale test bench
- Project support from the beginning
- Installation advisory and site support
- Preparation of installation plans
- Solution development
- Calculation and simulation
- Efficacy forecasts

KRAIBURG PuraSys has already successfully established itself on the international market through numerous projects with its PUR products for solving noise and vibration problems caused by rail traffic.

# Moulded Parts - Overview



## Quality Products Made from PUR Integral Foam

Polyurethane is an extremely versatile material. Due to the adjustment of material properties such as density and surface properties, it is suitable for many applications.

### We Cooperate With

- the automotive sector
- the rehabilitation, health and leisure sectors
- the furniture production
- power tools and mechanical engineering
- commercial / service companies of all kinds
- ...

### PuraSys Moulded Parts Convince

- as components made from PUR integral foam or as complex foamed assemblies. Almost all materials such as metals, plastics, wood etc. can be foamed around.
- with individual shape and ergonomic design
- in any degree of hardness from  $30 \pm 5$  to  $75 \pm 5$  Shore A
- with a colour design of your choice
- through demand-orientated production

### We Offer

- years of experience
- comprehensive advice and support from our specialised and experienced staff
- our own development department and thus the possibility to realise application materials exactly adapted to your requirements
- fast and flexible responses to the individual requirements of customers and markets
- solutions even for complex problems
- innovations and ideas
- rigorous quality testing
- convincing price-performance ratio

From the conception as well as the procurement of required tools and inserts to the delivered part, our experience enables us to offer you full-service solutions.



# Moulded Parts for the Automotive and Floor Conveyor Sector



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## Everything Made to Measure: Technical Moulded Parts

KRAIBURG PuraSys supplies OEMs and suppliers in the automotive and materials handling industries worldwide with quality products made from PUR integral foam.

Whether for passenger cars or commercial vehicles of all kinds – PUR integral foam provides custom-fit molding solutions for the automotive industry.

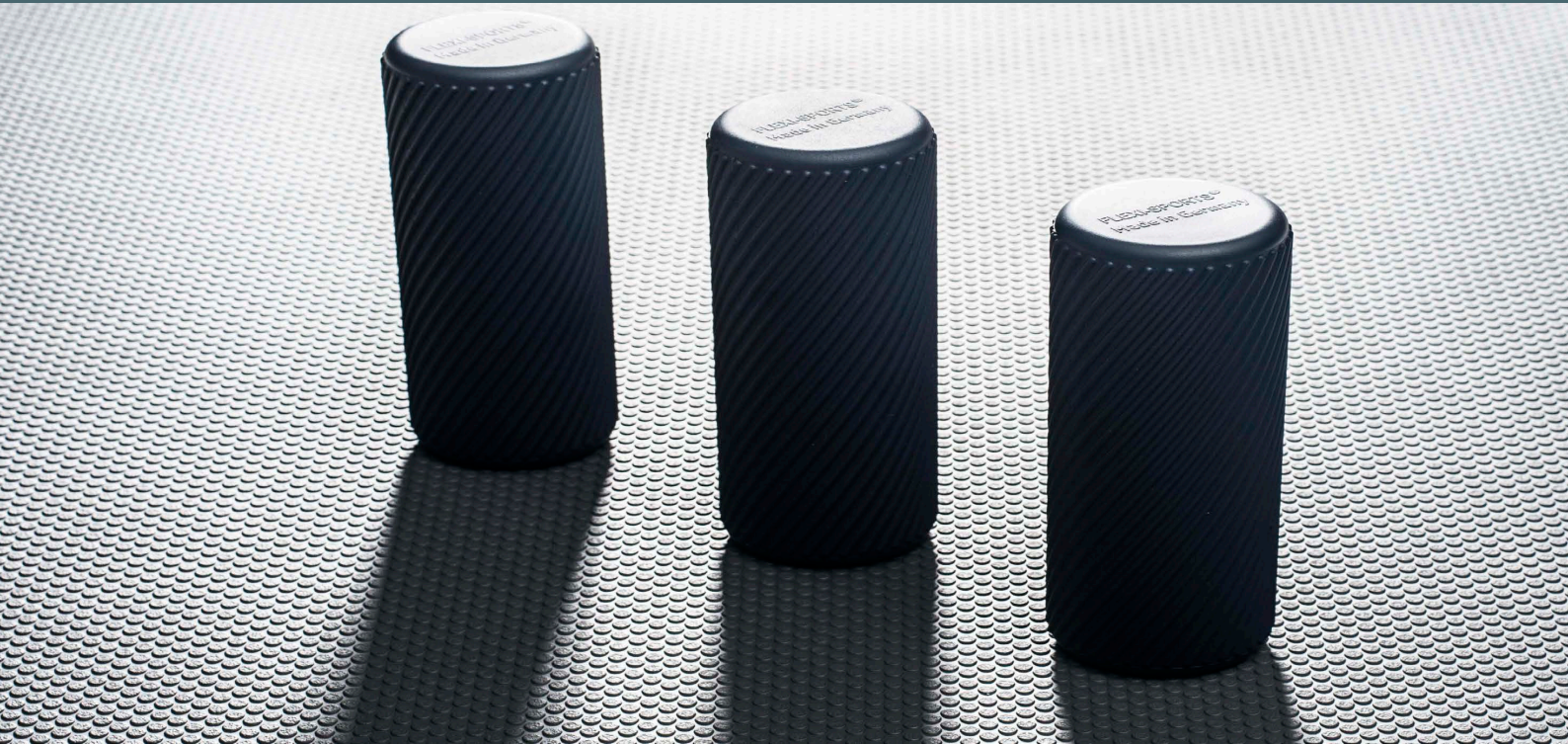
We manufacture complete parts made from PUR integral foam or foam-encased components such as armrests, grab handles, headrests, insulation pieces and much more. Thus we create individual solutions according to your specifications that meet the highest demands.

All our moulded parts are characterised by exact colour matching, fit and durability. Through certification according to ISO 9001:2015 and additionally IATF 16949:2016, we guarantee a consistently high quality standard and secure processes for our customers.





# Moulded Parts for the Industrial Sector



## Moulded Parts for Various Applications

There are countless possibilities for the use of PUR integral foam. Whatever you have in mind, we can turn your ideas into reality. Our experts will advise you in a targeted and solution-oriented way and work with you to develop components that are convincing in design, function and durability. We also offer advice on geometry and installation options.

In the area of rehabilitation and sports, for example, we are specialists in the production of high-quality protective and upholstering elements made of polyurethane foams. Whether components for wheelchairs, mobile walking aids or various accessories for equipping hospitals, medical practices and care facilities – our products always convince with ergonomics, safety and stability.

Thanks to an in-house formulation of our foam systems, we are also able to meet a wide range of requirements such as different shore hardnesses or colouring.





# Ergonomic Workplace Design



## More Comfort at the Workplace

### Knee Cushions – Sanitas Knee Care

Sanitas Knee Care is an anatomically formed knee cushion for the highly sensitive knee joints and therefore an indispensable addition to all kneeling activities in trades, production, commerce and the service sector.

#### Optimal Knee Protection

- Heel sitting and squatting mean maximum extension and a pressure load in the knee joint and are reduced with the knee cushion
- Optimal pressure distribution of the body weight
- Relief of the lower legs through „supported kneeling“; pressure on the knee joint is reduced
- Shock-absorbing and cushioning due to flexible PUR integral foam
- Durable and easy to clean
- Compensation of disturbing floor unevenness
- Ergonomic softness of the specially developed PUR integral foam system for the best possible adaptation to individual body conditions
- Practical handle design for easy transport

### Elastic Floor Mats – dynamicSTEP

The dynamicSTEP floor mats consist of a special PUR integral foam system. The strain on the body caused by walking, standing and turning on hard surfaces in everyday working life is reduced.

#### Ideal Equipment for Standing Workstations

- Scientifically proven ergonomic effectiveness: Reduction of strain on the body and joints by 60 %
- Reduces symptoms of fatigue
- Prevents degenerative changes in joints in feet, knees, spine and hips
- Resistant to oils, solvents, petrol, grease and many chemicals
- Easy to clean
- Insulates against cold, heat, impact sound and is shock-absorbent
- Reduces danger of tripping due to bevelled edges
- Can be used in many areas due to a wide range of variations: standard, antistatic
- Installation of endless walkways possible due to linking system
- Available with round and flat studs
- Available in various colours



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