Residential testing & exhibition complex "housing tech Labo" complete
~aims to provide a better living and dwelling~

Tokai Rubber Industries, Ltd. (HQ: Komaki City, Aichi Prefecture, President: Yoshiaki Nishimura) informs that it has opened its "housing tech Labo" premises, a complex set up within its Komaki plant which brings together leading technology residential testing & exhibition.

Since its foundation, our company has taken advantage of its core technology, polymeric compound technology - to develop products that increase the safety & livability of the home, and advance the commercialization of those products. We have received high evaluation from many customers for products such as damper that reduces the vibration caused by earthquakes or vehicle traffic etc, and energy saving window film that moderates room temperature for comfort. In addition, with Japan facing an aged society, from now on we will also accelerate the development of medical / nursing / health related products that can be used in the home. Although FY 2015 is the final fiscal year of the "Year 2015 TRI GROUP VISION" medium term management plan, we have positioned "living environment", "medical care", "nursing care", and "health care" as our priority fields.

The "housing tech Labo" that we have just established will continue to serve as a testing facility for residential housing related products, and also as an exhibition facility where people can understand the functionality of our company's residential housing related products whilst experiencing them first hand.

Because testing using an actual house within the company will become a possibility, we will be able to realize more accurate and faster product development.

It should be noted that, the name "housing tech Labo", means "technological research laboratory complex for residential housing related products".

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**<The main exhibition products>**

Within the complex, two rooms of the same construction are set up on the first floor, and the sounds from the floor above of children playing and people walking are artificially reproduced. By turning the banging noise through the ceiling reducing "floor weight impact noise reducing damper" on and off, you can compare its effect between these two rooms.

Under the roof a device called a "Multi Type Tuned Mass Damper" is installed. "Multi Type TMDs" suppress the likes of traffic vibration produced when vehicles pass by, and you can personally experience their vibration reducing effect here.

In addition to this, we are displaying the "TRC Damper" seismic vibration response system, which absorbs the shaking of earthquakes, protecting the house from damage and deformation of the building; the energy saving highly transparent window film "Refleshine", which is very effective in both winter and summer; and products based on "smart rubber sensors" the all rubber sensors that we assume will be put to use in the nursing care situations.

**<Product Guide>**

**TRC Damper**

A vibration control system which reduces the damage to wooden houses during an earthquake. Not only is it suitable for new builds, but also for renovation to existing homes.

Special visco-elastic rubber instantly converts seismic energy into heat energy, suppressing the strong shaking.

**Multi-Type TMD**

Damping device mainly for steel frame three-story houses, to reduce the lateral shaking caused by traffic and lifestyle vibration. Are installed on rooves and in attics etc. Our company's devices have the special characteristics that they are maintenance free, and their mass is split into four, delivering a more consistent effect.

**Heavy floor impact noise countering damper**

This is a device that reduces noises such as impact noise and walking noise transmitted to a lower level of the building by controlling the vibrations coming from the above level's floor.

High damping rubber absorbs vibrations, and softens the unpleasant banging sounds that come through to the lower floor.
**Refleshine**
Highly transparent energy saving film for windows. At the "Housing Tech Labo", you can personally experience the effectiveness of the heat isolating film refleshine - equipped with its heat shielding function mitigating the scorching sense of summer; and with its heat insulating function protecting the warmer indoor air in winter.

**Smart Rubber Sensors**
All-rubber high elasticity pressure sensors, that have electrodes printed on flexible rubber. Installing them in places such as the surface of a bed or the seat of a wheelchair, and by linking up to a monitor - it is possible to visually grasp the pressure distribution of the body, and is useful in care situations for things such as preventing bedsores and maintaining appropriate body position.

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<thead>
<tr>
<th>Location</th>
<th>1-3 Higashi, Komaki City, Aichi Prefecture, Japan.</th>
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<tbody>
<tr>
<td>Floor Space</td>
<td>150 m² site area, 96 m² floor area (wooden two-story building).</td>
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<tr>
<td>Exhibition Products</td>
<td>TRC Damper, Multi-Type TMD, Ceiling Noise Damper, Refleshine, Smart Rubber Sensors, TSK (Cosmetic Molds for Residential Foundations), etc.</td>
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**Contact Information**
Naoki Shimizu, Public Relations Department, E-mail: naoki.shimizu@tri.tokai.co.jp