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RUBBER SUSPENSION TECHNOLOGY

Insulating of the guide rails of high-pressure hydraulic pipelines

In industrial building complexes when hydraulic provisioning systems are started, permanently installed high-pressure hydraulic pipelines transfer highly distracting pressure impacts to the building substance, which are further transmitted through the wall and ceiling reinforcements. Also, by varying pressure requirements of the driven hydraulic engines the pressure reduction and following increase are transmitting impacts to the entire building structure, which disturbs everyone working in the building complex.

Sidewall installation

Wall attachment for tension and pressure

The frequently used hard rubber guides on the attachment rails of the pressure pipe can only conditionally compensate for the impacts in the high pressure pipelines, because of insufficient flexibility and deflection.

By the manufacturer of the wash, adhesive and cleaning agents,
Henkel AG & Co. KGaA in DE-Düsseldorf
multiple high pressure hydraulic pipelines were firmly installed on walls and ceilings in using ROSTA vibration mounts Type V as **pressure impact insulating.**

On two **ROSTA mounts Type V 27** respectively, the company maintenance specialists from Henkel AG installed the respective guide rails of the hydraulic pressure pipes. The absolutely separationsafe vibration damper from ROSTA load themselves arbitrary to the tension and pressure demands **in all three axes,** which is ideally suitable for floor, wall and ceiling installation of these guide rails.
In this application, the very efficient ROSTA vibration dampers offer an insulation level of > 95 %, which means the pressure impacts in the hydraulic pipelines in the building are hardly experienced.

Yoke support installation

TENSIONING TECHNOLOGY

ROSTA motor bases for belt drives for auxiliary units in buses

The cooling compressors for producing the cooling in air-conditioned buses are primarily driven from the vehicle diesel, by using a directly flanged friction belt drive. These 2, 4 or 6 cylinder cooling compressors are conventionally in the rear of the vehicle, to the side of the diesel motor and attached to the chassis.

For the continuous, preferably **non-slip torque transmission** to the cooling compressor, a belt tensioning device is required between the diesel and compressor. There are various designs of tensioning systems in use; from the air-pressure activated compressor base to the antiquated slide with turnbuckle, which are all **maintenance intensive.**

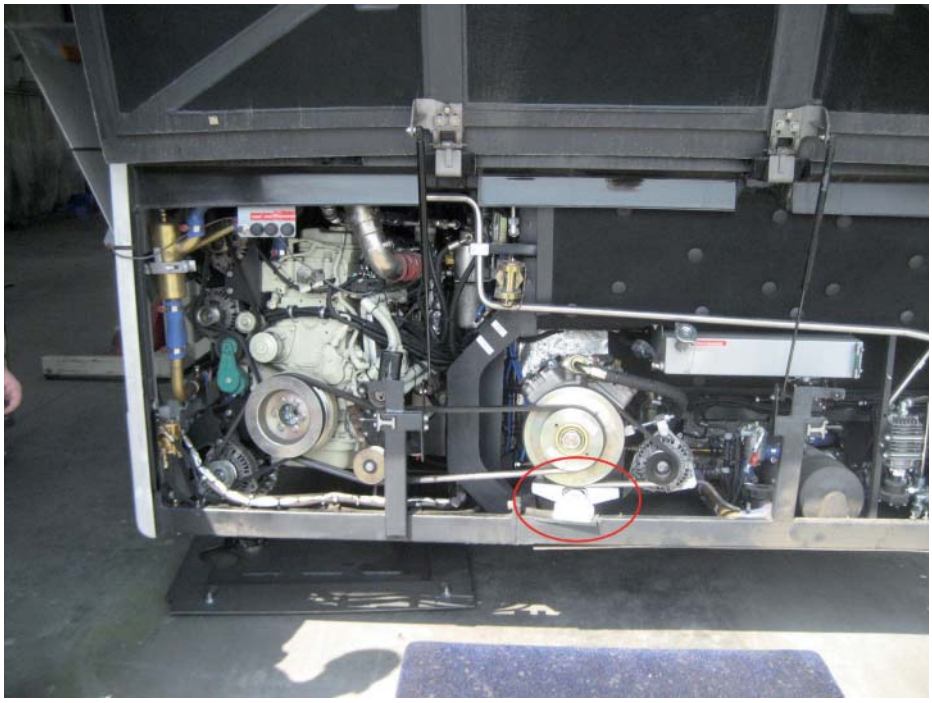
The **ROSTA motor base Type MB 45** offers the ideal synthesis of a **maintenance-free tension device,** coupled with an **effective vibration absorber** for dissipation of the compressor vibrations.

The cooling compressor with belt drive is installed directly on the hinged plate of the motor base and subsequently tensioned compliant with the belt, using an integrated pretensioning device. The base offers sufficient tension movement in the torsion rubber spring element to compensate, with no maintenance, for the extension of the belt. The rubber spring mounting of the base effectively dissipates the vibrations of the compressor and prevents transmission of them to the frame of the chassis.

Customer benefits:

- **maintenance-free belt drive**
- **continuous slip compensation**
- **long durability of the sets of belts**
- **compensates the back-lash impact of the diesel motor**
- **effective vibration dissipation at the compressor**

BOCK cooling compressor installed on ROSTA-Motorbase



Motorbase type MB 45 in Solaris-Bus

RUBBER SPRING TECHNOLOGY

This appliance may only be operated by one and the same person for a maximum of 3 hours per day!

Handle insulation on cylinder mower

By the previously mentioned drill hammers, compressors and mowing appliances, which are operated by hands and arms, the **reasonable value is 2.5 m/s²,** should the machine be used by one person daily for 8 hours.

In the last two years, ROSTA AG has realized, with several manufacturers of power machines with too high level of acceleration transmission, a drastic reduction of this value by the introduction of absorption rubber spring elements between the guide rods and handles. The transmission values to the operating personnel were consistently below the required **2.5 m/s².**

In the EU, from 2010, the attachment of a sticker with this, or similar text, could be obligatory for many manufacturers of drill hammers, compressors, rotary cultivators, mowers and floor saws, if, at this period, the machines still transmit too much remaining acceleration to the operating personnel. The **EU Guidelines 2002/44** with the minimum specifications for protection of the safety and health of the employees from the effects of vibration, states clearly the defined maximum acceleration values that the operating personnel can be expected to endure – otherwise time restrictions for the operators of these appliances become applicable.

Flexible suspension of the compactor operating console

ONE YEAR IN THE RANGE – AND ALREADY 12'000 SOLD!

The new „N" and „NOX" machine mounts from ROSTA . . .

. . . are stealthy best sellers!

Also inconspicuous machine feet „are bought with the eye", the quick sales success of the new range confirmed our assumption.

A machine mount should dampen, be anti-slip, compensate for unevenness and, using a thread, guarantee quick levelling of the machine.

This requirement was already fulfilled by the „old" N 70/120 range from ROSTA – only the clumsy „cast iron cover" was ugly and offered little decoration as a mount for the pretty machine installations of our OEM customers and end users.

To be technically better, smart designed and lower priced, our requirements for the remake of the „N" and „NOX" machine feet.

Technically better	☑	the new N-range has up to 100 % more load capacity
	☑	the new N-range has an improved tilt link
Prettier	☑	the new N-range is shapely and stove enamelled
Lower priced	☑	the new N-range costs in comparison up to 28 % less

Represented by:

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