



ROSTA Performance Show 2007

Periodically, every three years, ROSTA AG invites its market intermediaries to a performance show at their headquarters in CH-5502 Hunzenschwil. In two sections, a German language part followed by an English language part, new products are presented to the sales technicians of the branches and agencies and the functions of the **blue components** are demonstrated in practice. During an "International Day", the market intermediaries then report about new applications with ROSTA products in their own sales areas. The performance show 2007 took place from the 10th to the 14th September.

At the 2007 event, the focus of the topics was concentrated on **bulk material technology, gravel processing** and the **recycling of construction wastes**. The **oscillating conveyor technology** naturally plays an important role in these industry sectors, where, with its unique Type AB and AB-D oscillating suspensions, ROSTA is constantly eroding potential away from the traditional helical spring supports.



Practical functional demonstration in a gravel pit, picture of the participants

Oscillating Conveyor Technology

A main point of discussion was the functional layout of screen suspensions with ROSTA-Type AB and AB-D oscillating mountings. The sales technicians can only gain

the experience necessary for the subsequent customer consultations from practical applications carried out with the assistance of the ROSTA screen specialists



Installation instructions for the AB-D 50 on a linear oscillating screen and tensioning of the drive belts using the Type MB 50 self-tensioning motorbase.



Checking the spring deflection under load: How much does the conveyed material weigh? How large should be the dimensioning of the load reserve? How long is the service life of the suspensions? Questions that were answered competently.



Even the measurement of the isolation efficiency was not forgotten! Do the ROSTA oscillating mountings really dissipate 98% of the vibrations? Yes, as much as 98.5% is “swallowed up” here by the ABs.

A laboratory trial was also set up for the “disbelievers” among the participants, which confirmed the 98.5% isolation effect. In addition, a comparative measurement of the “ROSTA ABs: Helical springs” residual force transmission was also carried out on this test bench.



Do economic reasons suggest the use of the ROSTA pendulum mounts in linear screen drives with a single unbalanced motor? Yes, for small screening machines!



The Rubble Master RM 100 mobile crusher system from HMH was a highlight of the demonstrations in the gravel pit. Almost unbelievable, the quantities of building rubble that were “swallowed” by the crusher feed chute installed on the ROSTA oscillating mountings.

Motorbase for friction belt drives

After a long “step-child existence”, the ROSTA motorbases have developed into a secret bestseller. This is not the least due to the fact that the range has been increased upwards, up to 250 kW for large drive systems. The complete motorbase program from ROSTA has also been subjected to a general “face-lift”, which has simplified their handling. With clearly outlined and richly illustrated installation instructions, the complexity has been removed from the once “off-putting” MB handling, and the motorbase can now be honestly described as user-friendly.



Pretensioning of the 250 kW belt drive using a simple ratchet lever. The extremely light running bevel gear lifting spindle makes the easy handling of the ROSTA Type MB 100 motor drive possible without additional aids such as hydraulic cylinders, etc. The radial tensioning force required here for the six SPC drive-belts was 17,992 N!



Anyone who wants to sell automatically-adjusting ROSTA motorbases should also be well aware of their functions. After carrying out the installation, the MB specialist from ROSTA checks the installation layout selected by the sales technicians.



Impact-safe conveyor belt transfer stations



Not all the sales technicians were convinced of the efficiency of the ROSTA Impact Table at the transfer stations. The sharp-edged 100 kg chunks falling from a height of 5 metres should prove the effectiveness of the ESL anti-vibration mountings. After thirty drops = not the slightest injury to the conveyor belt!

Rubber suspension units for rubber belt scrapers

As before, more than twenty manufacturers of rubber belt scraper systems suspend their cleaning strips or individual plate scrapers on the self-adjusting ROSTA rubber suspension units, which ensure contact to the belt even at high belt speeds, and thereby offer very good cleaning results.



Demonstration of the new development of a self-adjusting ROSTA suspension system for the so-called drumhead scrapers. The Type DR 38 x 80 rubber suspension units that are fixed on both sides of the rubber belt frame can be synchronously pre-tensioned thanks to the tension scale and thereby provide an identical compression over the complete width of the belt.



Suspension of crossover scrapers with ROSTA Type SE tensioning elements and, in comparison to the indefinable copy-tensioners that already "run-out" in practical trials after five minutes and no longer press the cleaning strips onto the belt.



ROSTA – THE BLUE POWER

ROSTY'S COMMENT:



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