ROSTA Info

Quarterly published customer information of ROSTA AG, CH-5502 HUNZENSCHWIL

No. 1/2003

# Successful conversion of 320 processing screens to AB-D 45 suspensions

The. THOMAS EQUIPMENT Ltd. located in CA-Centreville (New-Brunswick), is a well-known Canadian manufacturer of earth moving and road building machinery. THOMAS has now placed their trust completely in ROSTA oscillating mountings for the suspension of their screening plants.

Fig. 1 shows the mobile processing screen from THOMAS, which is mainly used for the recycling of rubble and road asphalt. Originally, the hydraulically driven 2-deck circular screen was mounted on half-elliptical leaf springs (Fig. 2). Environmental variations, corosion attacks and impact shock led to a high failure rate of the leaf spring suspensions, and thereby to frequent machine downtime. In continuous operation, the maintenance mechanics were replacing the spring suspensions almost every week! The screen machine was earning a reputation among road builders as being prone to suspension failure, which also had a negative effect on the sale of new machines.

Figure 2

The attention of THOMAS EQUIPMENT Ltd. was drawn to our screen mountings through an advertisement from ROSTA Inc. Canada, and the first screen machine was quickly converted to AB-D 45. After a vigorous trial period, ROSTA soon proved to be the answer to their problems, and excellent itself in continuous operation through the high insulation effect and its capacity to overload. THOMAS quickly offered all screen operators a conversion kit. By means of the clamp-on conversion kit with special brackets, the 320 „field machines" were subsequently converted in a very simple manner (Fig. 3). It goes without saying that the AB-D 45 by ROSTA have now become a standard installation component of these screening machines, and have made this plant from THOMAS into a bestseller once again.

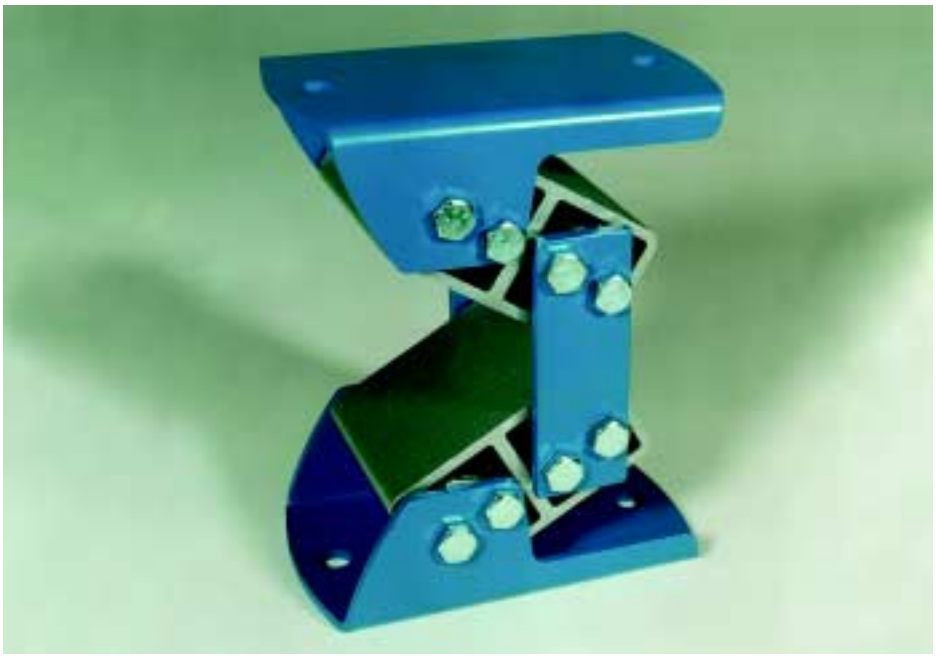
Figure 1

Figure 3

ROSTA Info

# The new ROSTA Type AB-D screen mounting has only been on the market for 6 months and is already a bestseller!

The new, compact, high load-bearing oscillating suspension with the very positive cost : carrying capacity ratio has not only caused a furore in the few months that it has been on the market due to its high insulation value; it is much more the very simple assembly and the weight grading matched to market requirements that have given this new series of screen mountings from ROSTA a quick-start in vibration processing.



The LIEBHERR-Mischtechnik GmbH in Bad Schussenried (Germany) has recently designed a new recycling screen for a very specific market niche, the reprocessing of sewage mud and silt waste from street cleaning machines. A large demand for small, local and cost-effective recycling plants of this type has arisen, in particular due to the fact that, from 2004, this kind of waste will no longer be able to be dumped or be used as landfill material for gravel and sand pits within the EU without first being processed. The collected masses of mud can only be economically separated and divided up using the screen technology.

LIEBHERR therefore designed a very robust „screen grating" that carries out linear oscillating movements by means of two unbalanced motors, and thereby achieves a high throughput performance. The screens are loaded with either belt conveyor installations or spontaneously with loading shovels. A requirement therefore arose for **cost-effective** oscillating elements that are **tolerant to overloads, directionally stable, highly insulating** and **resistant to dirt** = the ideal application for the new ROSTA Type AB-D oscillating element with seven weight graduations from 600 to 16,000 N.

Figs. 1, 2 and 3 show the 1,800 kg heavy screen grating, supported on a total of 6 ROSTA Type AB-D oscillating elements, each with a carrying capacity of 2,000 to 4,000 N per support.

Figure 1

Figure 2

Figure 3