CRANE SYSTEMS

Many types of crane depend on wheels running on rails for their guidance and support. The heavy loads that these have to bear in many cases give rise to wear of these components and maintenance or replacement can be a costly exercise both in terms of labour and parts, and lost production time.

HOW CAN SOLID LUBRICATION HELP?

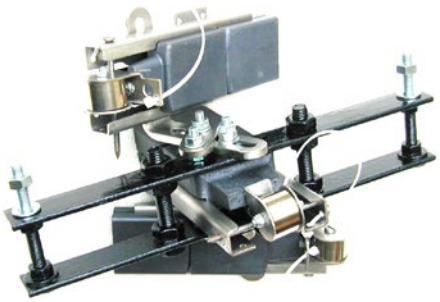
Solid lubrication is often a good solution to this challenge. The products in stick form are applied from stainless steel applicators designed specifically for cranes. Requiring virtually no maintenance, these applicators apply the sticks under the pressure of a constant force spring to the wheels or sometimes to the rails of the guidance system. Generally, lubrication is to the wheel flange zone using the SL product but for some installations, a specialised, friction modifier stick (SFM) is applied to the wheel treads. This complements the SL protection by reducing the flanging forces and thereby the wear.

Many types of crane are amenable to this equipment such as gantry, EOT, luffing etc. Brackets for mounting the applicator can also be supplied. One particular universal bracket using the GS System is shown in the picture; this has been used extensively on ship-to-shore container cranes. The application systems are simple to fit and adjust to optimise the product deposition.

The result is a cost effective metal protection system that has been tried and tested worldwide to give superior performance compared with graphite and other lubrication systems. The technology benefits from wide-ranging experience in railway engineering where parallel products have been developed extensively for wheel/rail application. The dry and clean nature of the stick lubrication is also often attractive to operators to avoid the messy environments often caused by traditional lubrication systems.

OPERATIONAL BENEFITS INCLUDE THE FOLLOWING:

- *Up to 70% reduction in wear on wheel and rail*
- *Does not attract or accumulate dirt or dust / grit*
- *Totally clean environment.*
- *Cost-effective operations and cost-effective to install*
- *No loss of traction under any circumstances*



USING BESPOKE BRACKET (SUPPLIED BY BVY)

USING CANTILEVER FORM OF ARRAY FRAME