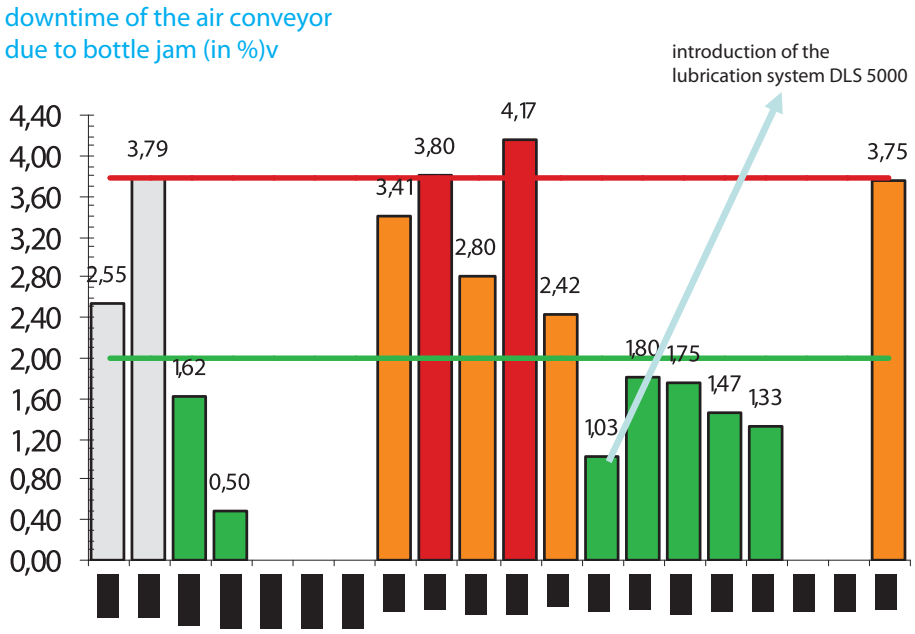
PET bottleneck lubrication in air transporters

When specially adapted, the fully automatic DLS 5000 lubrication system can automatically lubricate the necks of PET bottles for transport in air transporters. Jams often occur there due to the high friction resistance in the guide profiles and this is made worse by the tight curves and height differences in the routing.

By inserting lubrication points into the guides in the air transporter, it is possible to significantly reduce the fiction at all contact points. The dosing quantity for each lubrication point is extremely small at just 10 mm^3. The average annual consumption of our DLT 333 lubricant is only about 3 litres per 100 m air transport distance. Further economical advantages are the reduction of the fan power by around 45%, the reduction of filler downtimes caused by jammed bottles by around 40 - 100% and longer service lives of the plastic profiles installed in the guide.

The prevention of bottle jams and the reduction of the fan power allow amortisation within six months to one year, depending on the existing route configuration. The hoses, which are made of high pressure plastic, are fixed to the frame of the transporter or laid in existing cable conduits.

The process is patent protected (EP 1494943) and out-licensed to the manufacturer of the DLS 5000 system. The manufacturer is in possession of a PAAG risk analysis.



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