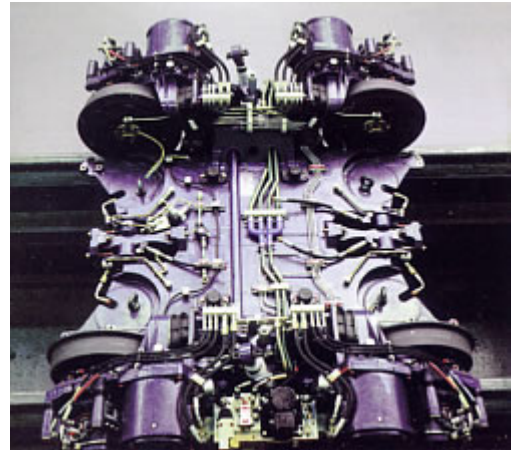


Engineered Solutions – From Concept to Completion

Supply of Overhaul Kits for Bombardier 'EuroTram' Bogies in Porto

Flowonics Limited is currently supporting the overhaul of Bombardier 'EuroTram' bogies by supplying complete kits of components direct to the workshops. The bogies, from trams used on the Porto system in Portugal, are being overhauled locally as part of a wider overhaul of the complete tram vehicles.



Working with the customer, Flowonics undertook a full review of the components required to effect the overhaul of each bogie type. This review identified that within the overall kit, there were a number of 'sub-kits' required for particular aspects of the work which could be supplied together. Flowonics then reviewed the most effective mechanisms by which the kit and sub-kit items could be packaged to best suit the end-user's requirements and reduce packaging waste. The complete kits are therefore supplied in re-usable packing cases which protect the items from damage in transit and include sub-kits, many of which are blister packed together using in-house packaging machinery.

As a result, Flowonics is supplying kits of parts including:

- Pre-formed steel/copper pneumatic and hydraulic pipework
- Flexible pneumatic and hydraulic hoses
- Support brackets, clips and hold-downs
- Spacers, fixings and other sundry items

Flowonics has now successfully supplied a significant number of complete overhaul kits directly to the customer's facilities in Portugal. Supplies to date have been 100% on-time in line with the agreed delivery schedule. This has enabled the customer to overhaul these bogies in line with their schedules and ensure that trams are returned to operation on the streets of Porto as quickly as possible.

For further information regarding this and other Flowonics solutions, please contact:

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