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9 - Toward rail freight buses (Resor@il)

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Par: R & G. Claraco

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Towards rail freight buses

While C Modalohr Express moves on, another innovative French concept is less well-known. Like Modalohr and the EU-backed CargoSpeed (which is for unaccompanied trailers—see WoldCargo Ness, March 2002, p15), RésoR@il allows for March 2002, p15), Résolk@id allows for simultaneous, partial or total (un)loading of standard road equipment with random access, so it lends itself to "bus stop" serv-ices on short- and medium-houl freight as well as long hauls, with trucks joining and leaving at any stop on the route. Indeed, Résolk@il's co-inventor, Robert Clarco, a Toulouse-based trans-

Robert Claraco, a Toulouse-based trans-RODER CLIFFAC, I followse-speed rans-port consultant, says that RésoR@il is aimed at "belt-type" (circular) routes which can regenerate area that have been bypassed by point-to-point freight corri-dors linking major centres. The loops would be self-contained but, of course, could overlap at junctions where HGVs could be exchanged. Certain aspects of the RésoR@il belt network are covered

the Resolugia beit network are covered by an NPI patent issued in July this year. Each stop should be able to cater for maximum length trains (750m) composed of 32 wagons (is 32 HGVs). As stated, the whole train can be (un)loaded in much whole train can be (in)loaded in much the same time as any individual wagon slot. The wagon has a raisable floor. The lowered position is the rail transport mode while the raised position is level with the truck staging and manoeuvring area, so trucks are simply driven on and off (port-able decking can be provided if needed). Hence a raised truck platform has to be built beside the track; alternatively, the track has to run in a trench.

Sliding lift

Silding Int.

Instead of a powered lift, the wagon is fitted with retractable, lateral profiles which engage with greased metal slides built into the platform along its whole length. As the train slowly pulls in, the floors gradually rises automatically. A pateriat for this was round in May this year.

Like Modalohr, Chraco has dismissed the data and a plate of the p

the classic, small wheel RoLa solution on grounds of excessive M&R coits and out-of-service times. At 120 kph the wheels rotate as fast as the wheels of a 300 kph TGV and, combined with the high axle loads, this means frequent and expensive reprofiling is required. Furthermore, some

freight trains in France operate at 140 kph and even 160 kph, for which only bogies with normal wheels with disc brakes will

The RésoR@il wagon has 950mm diameter wheels approved for 140 kph speeds. As it is not a well wagon it would normally need to operate on UIC C gauge track to carry a 4m high load, al-though with modifications it could run

on the French B+ gauge.
Claraco himself acknowledges that certain sections of major routes in France are B+ or UIC B and considerable works may be required to obtain UIC C clear- ing functions. This is an Alstom patent.

ance. The infrastructure investments look more dunting than the rolling stock.

RésoR@il has got round the UIC wheelbase problem in an interesting way. The maximum spread is 18.4m which, other than with small wheel technology, makes it improsible to carry a 16.5m i OA HGV [16.8m is needed to allow for play). This is why the Modalohr carrier is split into the role of the Irela with market. into a section for the trailer with another (optional) section for the tractor head. In the ResoR@il design, the bogic pivot point is located behind the rear axle, thus separating the load-carrying and the steer-



RésoR@il loading schen

RésoR@il was placed on a list of projects worthy of public support by Dominique Bussereau when he was presi-dent of the PREDIT "think tank." Now transport minister, Bussereau is following through the financial commitment made by his predecessor Jean-Claude Gayssor to Modalohr. With funding scarce, it re-mains to be seen whether RésoR@il can attract wider European support. a