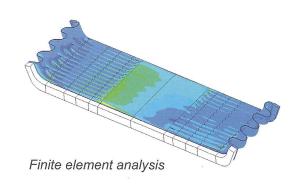




ALMOST 80 YEARS OF EXPERIENCE IN THE RAILWAY INDUSTRY

Since 1937, our railway division has developed significant experience in the design and manufacture of a full range of products for the railway industry.

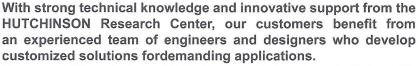
The solutions we provide are custom-designed and tailored to meet our customers' requirements. Our goal is to offer flexibility, strong technical expertise and short lead times in order to match the market expectations. Our products are used in a wide range of rolling stocks, including locomotives, high-speed trains, regional trains, metro cars and light trains. The designs and solutions we provide are optimized to meet the high specific requirements of dynamic behaviour, long life and low maintenance.



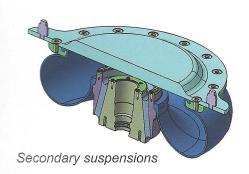




ENGINEERING / TESTING FACILITIES



Our capabilities include CAD Design (Autocad and Catia V5), Finite Element Analysis (FEA) and modelling, laboratory material for development of new compounds, static and dynamic testing facilities.



LOW TEMPERATURE

With CRYSTALENE®, elastomeric material for low stiffening at low temperature – until -50°c – HUTCHINSON is able to provide a full range of bearings and suspensions which allow to reach strong requirements without affecting main operating conditions on board, such as creep and fatigue behavior.

BOGIE EQUIPMENT



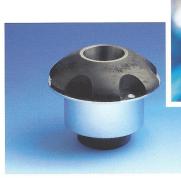
3 Elastic rods, elasti and bushes





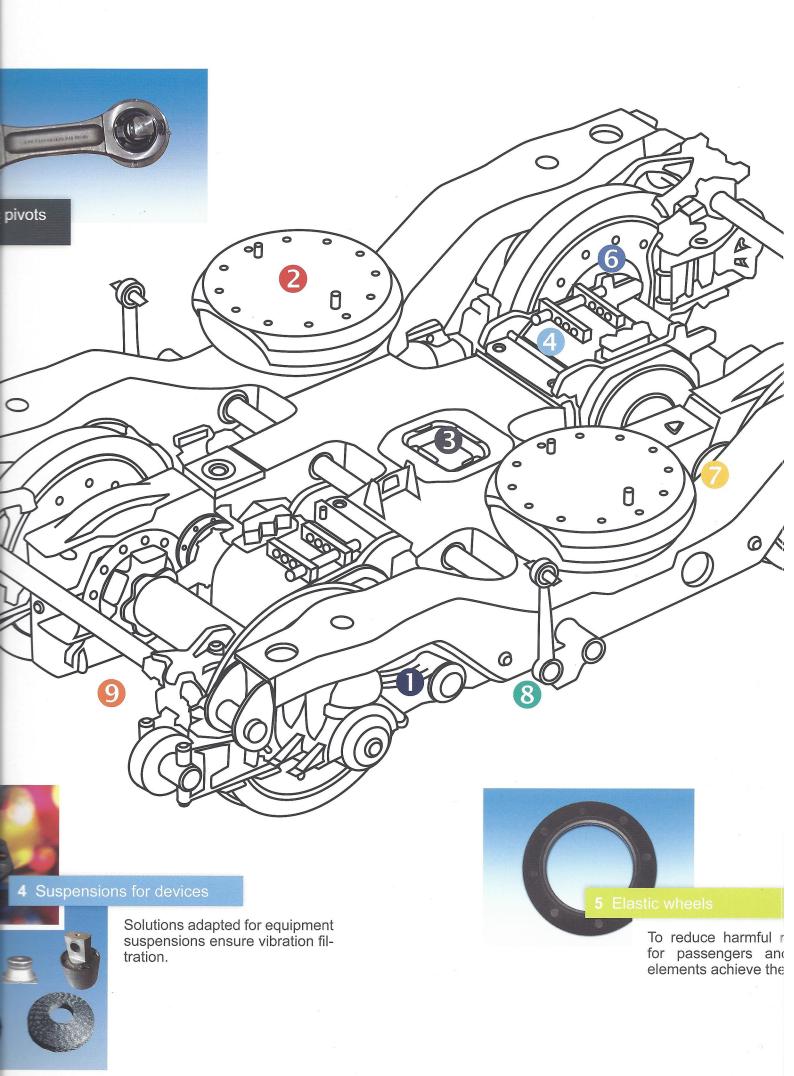
















The complete guidance system, including rubber components, is dedicated to specific light rail vehicle projects.

The guidance system ensures significant weight reduction, operational simplification and passenger comfort enhancement.

oise and vibration effects I residents, the resilient soundproofing of wheels.

GANGWAYS& INTER CAR BEARINGS

Intercommunication gangways

Allowing a high level of comfort and reliability, the intercommunication gangways are composed of adapted rubbers to meet fire, smoke and fatigue requirements.

Our main proposed solutions are:

- complete gangways for urban transport,
- aerodynamic profiles and sealing pads for high-speed trains,
- flanged UIC gangways for intercity trains.





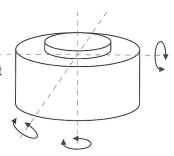
Exhaust line packages

The complete exhaust line package includes silencers, expansion bellows, stabilizers, deck penetration mounts and wire mesh mounts. They are reliable and long lasting solutions in severe environmental conditions.

Inter car bearings

Our inter car bearings generate a significant reduction in maintenance costs.





MAIN CUSTOMERS AND CURRENT PROJECTS





Bombardier: Régio2N, IDF, Talent2, AGC, EMU China.

SNCF: TGV, MI 2N, TER 2N.

Alstom: MI09, TGV, KZ8, Regiolis, TTNG, Iponan.

RATP: MP 05, MP89, MF2000.

Siemens: DESIRO Mainline, DESIRO Russia, VELARO Platform.

Other Customers: Bonatrans, Cfl, Crc Changchung, Deutsche Bahn Ag, Faiveley,

Korail, Nedtrain, Oncf, Rotem, Sncb, Stadler Rail, Stm, Stc Mexico, Trenitalia.









As a world leader in vibration isolation technology, we can offer you a wide range of standard and custom-made products that are available worldwide.

WORLDWIDE OFFICES

Paulstra SNC - France

T.: +33 1 40 89 53 31

F.: +33 1 47 57 44 20

railcom.paulstra@hutchinson.fr www.paulstra-vibrachoc.com

Stop-choc Ltd - UK

T.: +44 1 753 533223

F.: +44 1 753 693724

sales@stop-choc.co.uk

www.stopchoc.co.uk

Barry Controls - North America

T.: +1 508 417 7000

F.: +1 508 417 7224

info@barrycontrols.com

www.barrycontrols.com

Hutchinson Asia

T.: +86 512 8518 8298

F.: +86 512 8518 8292

railway@hutchinson-suzhou.cn www.hutchinson-suzhou.cn

Vibrachoc - Spain

T.: +34 918 760 806

F.: +34 918 760 790

comercial@vibrachoc.es

www.vibrachoc.es

Hutchinson Stop-choc GmbH Germany

T.: +49 7 159 92 19 0

F.: +49 7 159 92 19 19

info@stop-choc.de

www.stop-choc.de

Techlam - France

T.: +33 3 89 75 66 67

F.: +33 3 89 39 89 62

info@techlam.org

www.techlam.org

