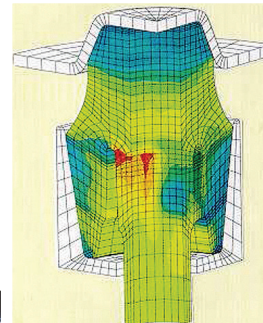


## OUR ENGINEERING AND MANUFACTURING CAPABILITIES

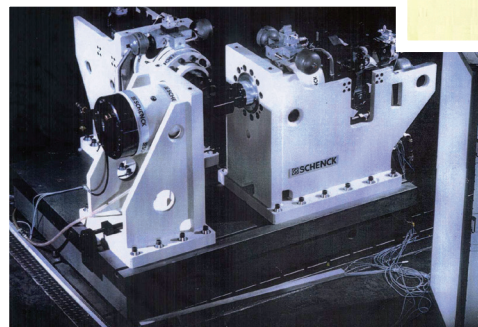
- Modern Research Center: the most powerful scientific computation and numerical simulation center in Europe,
- System analysis (Abaqus, ARC3D, Sysnoise, Paulstrasoft),
- Dedicated technical assistance,
- Integrated electronic, acoustics, mechanical and material engineering skills,
- Dynamic testing facilities (multi-axes test rigs, electrodynamic and hydraulic shakers),
- Mixing of specialty elastomers,
- Wire mesh and cable mounts assembly lines,
- Actuators, sensors and controllers for active systems,
- Wide range of capacities,
- In-house manufacturing of cable mounts,
- Field assistance (testing, installation, survey),
- Expertise in acoustics.



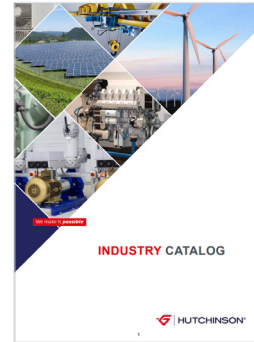
Test cell



System analysis



Hydraulic shakers – 4 axes



PAULSTRA VIBRACHOC, STOP-CHOC and BARRY CONTROLS, as part of the HUTCHINSON group and in combination with our world class technical capabilities, is able to optimize the solution to your vibration isolation problem.

PAULSTRA VIBRACHOC, STOP-CHOC and BARRY CONTROLS, a world leader in vibration isolation technology, can offer you a wide range of standard products immediately available worldwide.

## WORLDWIDE OFFICES

### Paulstra SNC - France

Phone : +33 1 40 89 53 31  
indus.paulstra@hutchinson.com (France)  
indexport.paulstra@hutchinson.com (Export)  
www.paulstra-industry.com

### Barry Controls - North America

Phone : +1 800 227 7962  
Fax : +1 508 417 7224  
info@barrycontrols.com  
www.barrycontrols.com

### Stop-choc Limited

Phone : +44 1753 533223  
Fax : +44 1753 693724  
sales@stop-choc.co.uk  
www.stop-choc.co.uk

### Hutchinson Asia

Phone : +86 512 851 882 98  
Fax : +86 512 881 811 72  
industry@hutchinson-suzhou.cn  
www.hutchinson-asia.com

### Hutchinson Stop-Choc GmbH & Co. KG

Germany  
Phone : +49 7159 9219 0  
Fax : +49 7159 9219 190  
info@stop-choc.de  
www.stop-choc.de

### Vibrachoc - Spain

Phone : +34 91 876 08 06  
Fax : +34 91 876 07 90  
comercial@vibrachoc.es  
www.vibrachoc.es



We make it *possible*

## LAND DEFENSE

SHOCK & VIBRATION

## QUALITY



**PAULSTRA - VIBRACHOC - BARRY CONTROLS**  
are ISO 9100 approved.







# 60 YEARS EXPERIENCE IN THE DEFENSE INDUSTRY

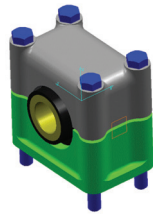
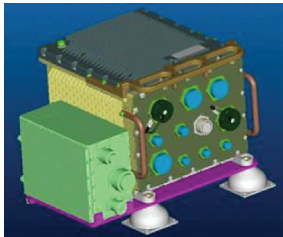
For more than 60 years, our defense and industry division has developed significant experience in the design and manufacture of a full range of products for the defense industry.

We develop or adapt existing products to respond to the strict requirements of military technical specifications. The products manufactured are adapted to the constraints of all-terrain driving at the same time as retaining highly acceptable vibration and acoustic comfort in on-road conditions. The solutions proposed can combine different technologies : high elastomeric temperature, metallic and hydraulic cushions, cable-damper systems - thereby complying with the highest technical requirements of applicable standards.

## ENGINEERING

With strong technical knowledge and innovative support from HUTCHINSON Research Center, our customers benefit from an experienced team of engineers and designers who develop customized solutions for demanding applications.

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.



## PROJECT MANAGEMENT

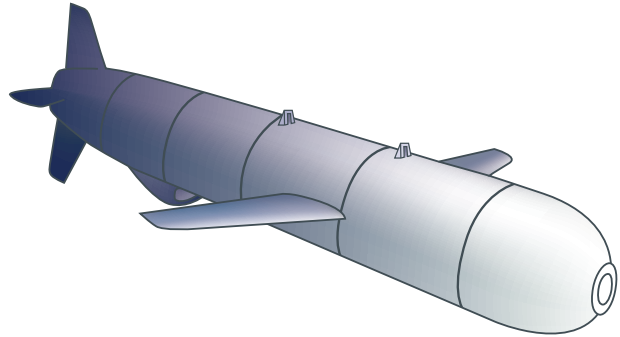
Project management begins with the study of a customer's specification through our compliance matrixes and dedicated planning.

We are able to propose innovative technical solutions in terms of suspensions for armoured cabs, power trains, electronic and optronic or on-board communication equipment. Our projects run through the conventional project milestones : preliminary design review (PDR), critical design review (CDR) and first article inspection (FAI).

When requested, we also supply literature packages including risk management plans, structural analyses, weight analyses, FAI report qualification test reports, maintenance documentation, etc.



Annular mounting



Seeker mounting



Electronics system & Displays



Electronic control unit equipment isolation



Rear cab suspension



Cooling system

Primary suspension

Paulstrafloat

Juboflex coupling

Hood bumper

We make it *possible*



Radiator supports

Front cab bumper

Upper cab mount

Front engine mounts

Rear transmtion mount

Torsion bar bushing  
Suspension bearing  
Suspension pivot