



**RELIABILITY  
BY DESIGN**

**TRIMMERS VIETNAM  
TRIMMERS TU  
TRIMMERS CHINA**

**TRIMMERS USA  
TRIMMERS D1 OFFICE, HCMC  
EXO ACTIVE SUPPLY**



[trimmers-pro.com](https://trimmers-pro.com)





Trimmers is a hardware company established and located in Vietnam and consists of professional managers and engineers from South Korea. We are offering state-of-the-art designs, innovative and extremely reliable products in the specialized travel bags, camping and outdoor industry.

With our company slogan

**“RELIABILITY BY DESIGN”**

and accumulated experiences, Trimmers has been trying to do the best for customers' satisfaction, and impression.





## ● OUR VISION

Our goal is to become the First Mover in this manufacturing market. To keep developing and using cutting-edge technologies and work procedures, to strive a strong and reliable partner in all areas of our business activities, admired by our employees and respected in this industry.

## ● OUR MISSION

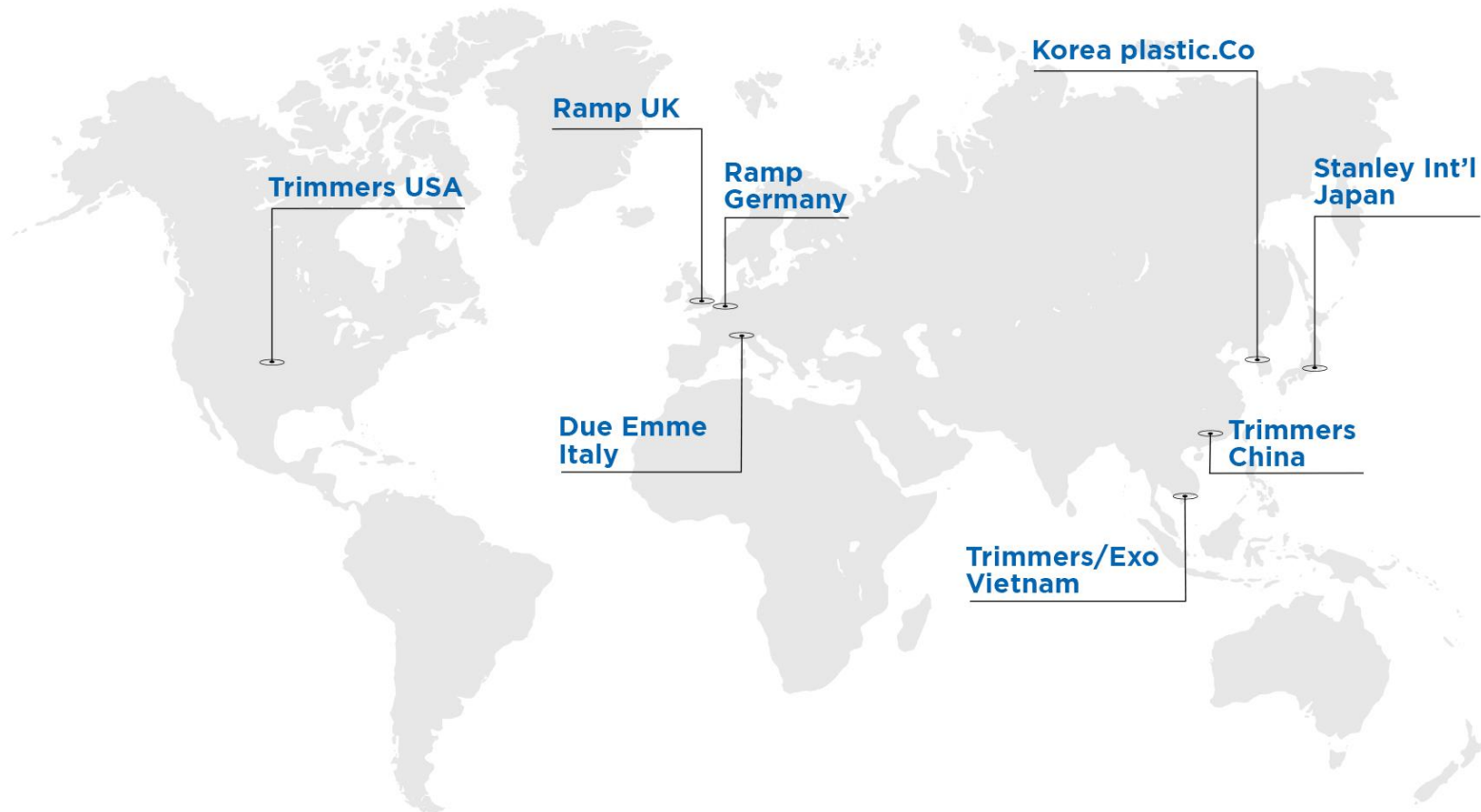
We want to use our technology and creations to assist and support you as your business expands. Providing our partners with the best service possible and taking part in being at the cutting edge of environmentally conscious business practices is our primary goal.

# ABOUT US

## We look forward to your inquiry!

Trimmers Hardware Company is a manufacturing company that provides hardware products with a focus on Carrygear Systems.

Starting in 2007, our production continuously grow and simultaneously expand our business facilities.



## OUR OFFICES WORLDWIDE

VIETNAM // CHINA // USA // KOREA // JAPAN // UK // GERMANY // ITALY

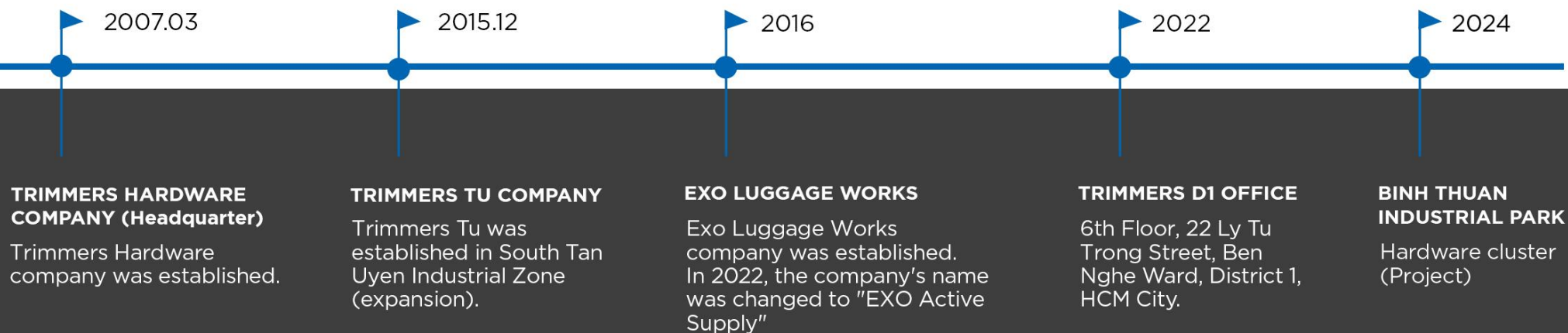


# OUR HISTORY



## 20 YEARS OF MAKING HISTORY TOGETHER.

- We want to be the leader and trend-setter of specialized hardware company.
- We are doing our best in our technique and product development.
- We help you, our customers, achieve your success.

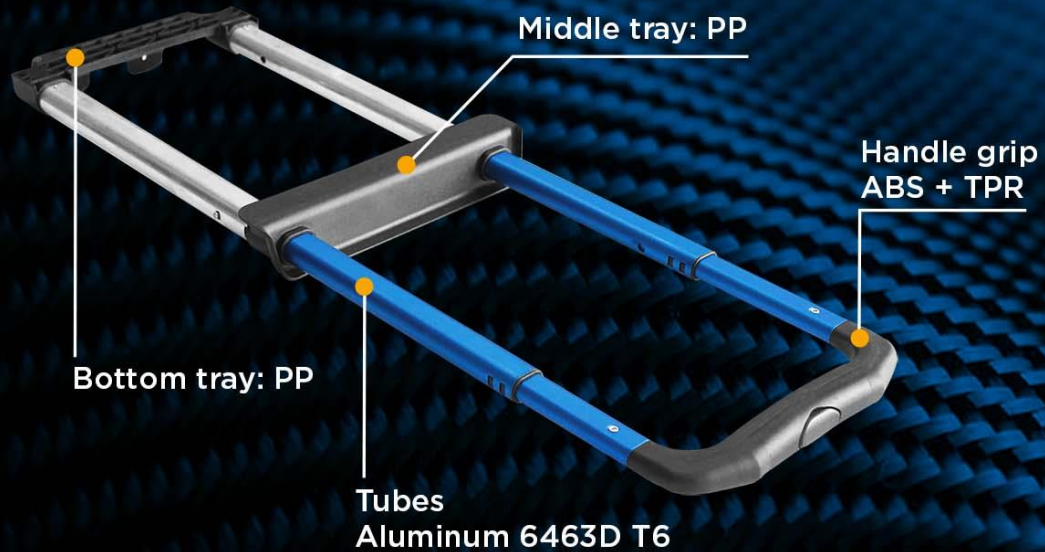


# WHY US ?

- We don't fear making new products!
- We constantly produce innovative and unique ideas and eco-friendly products. Furthermore, we are proud to say that we were the first business to develop hardshell, hybrid luggage and are the leading supplier of aluminum products.
- The future of Trimmers is to become one of the most automated manufacturing companies, increasing production capacity while reducing costs.

# • PRODUCT CATEGORY

## 01 HANDLE



## 02 WHEEL





# 03 HARD SHELL

Handle: Aluminum tube with TPR rubber

Shell: Polycarbonate vacuum thermoforming

Wheel: Housing PP + Wheel (Hub PP/Tire TPU)



# 04 FRAME

This design is helpful for the elder to avoid barricades when moving forward

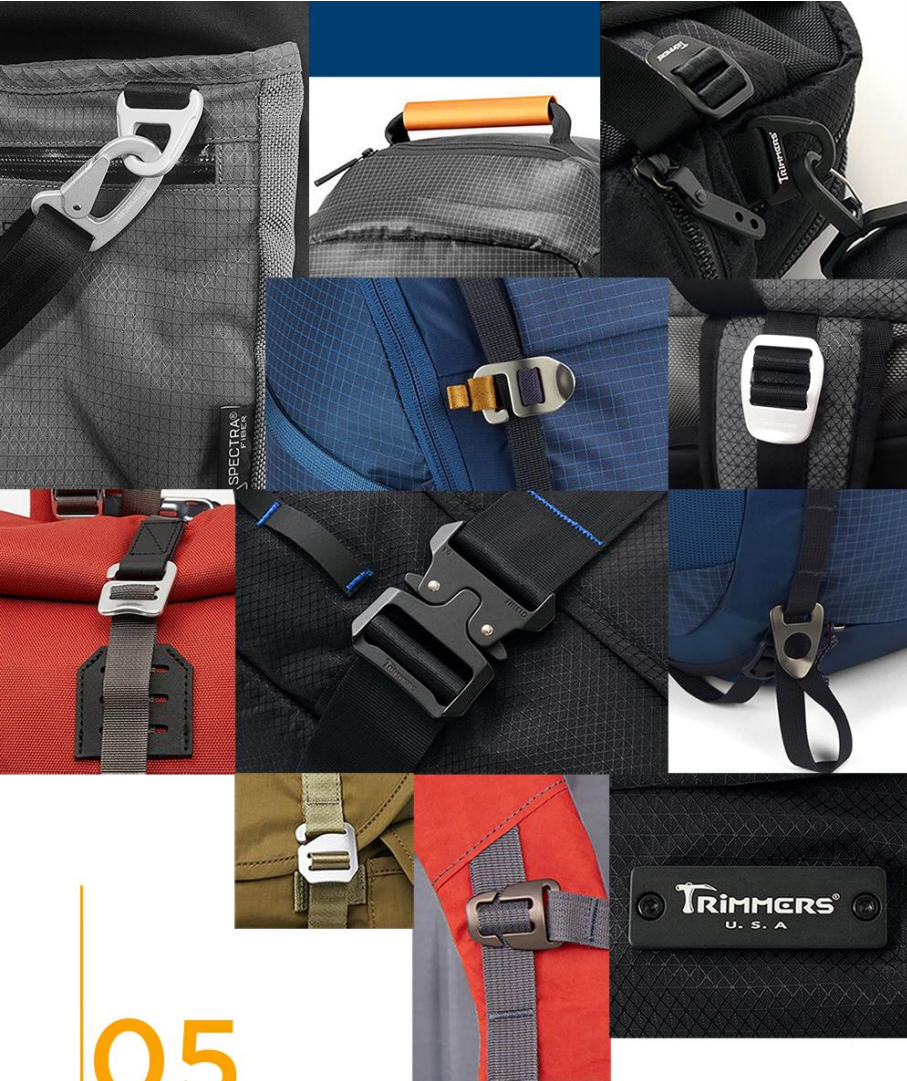
Aluminum Frame



2 WHEELS POSITION



4 WHEELS POSITION



## 05 METAL

**Material: Aircraft grade aluminum**

- Lightweight and durable
- Excellent corrosion resistance
- Stylish and practical products, also convenient to use
- Custom logo can be applied
- Great for any packs, bags, duffels, tool pouches and more...

## 06 PLASTIC



Skid plate

### FOOT AND RAIL



### CORNER AND PLATE







# 07 ZIP - PULL

Made of aircraft-grade aluminum, the puller and the string both come in a variety of color variations.

This puller will go well with backpacks, bags, duffels, outdoor products, jackets, and so on.

Aluminum



# 08 MetAstics™

This is the result of combining aluminum and plastic. The plastic offers lots of friction to keep the webbing in place tightly, while the aluminum offers strength while still being lightweight.

In the future, we are going to develop more camping products by using more of these materials, making us a strong competitor in the camping and travel industries.

Plastic



Aluminum





## OUR MATERIAL

Quality Management of Trimmers focuses and follows every Customers and Buyer's requirements. We are also beginning to follow the guidelines of International organization for Standardization (ISO) and TS16949. Whether it is for colour, physical or chemical standards, we aim to use our raw materials in its operation cost effectively and responsibly.

### ALUMINUM

#### Aluminum Processing Method

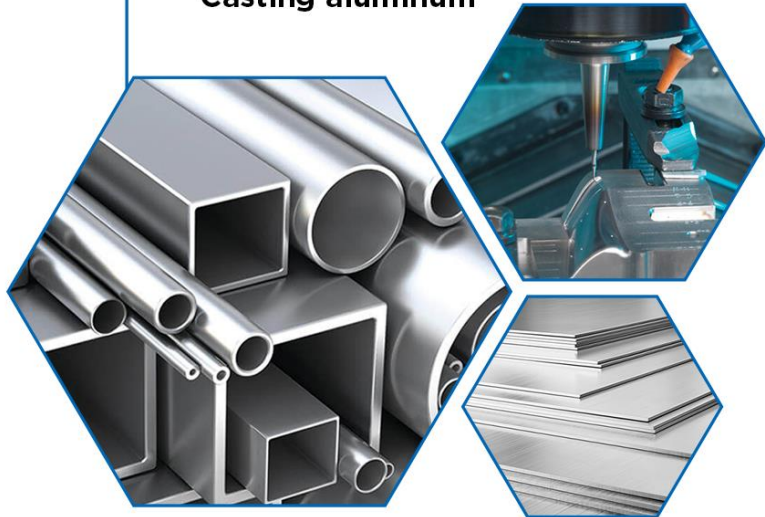
##### Extrusion aluminum

Different kinds of shape and size are available.  
For making tube of travel bag handles.  
For making zipper puller and other components.

##### Forged aluminum

Stamping/Bending.  
For making zipper pullers, buckles, hooks and other bag.

##### Casting aluminum



#### Aluminum species

##### AL 7050T6

**Aircraft grade aluminum, yachts, etc. Weld strength is strong and difficult capability**

Trimmers products use a Forged Aluminum processing.

##### AL 6463T6

**Used for windows, construction, and furniture**

Trimmers products use Extrusion & Forged Aluminum processing method.

##### AL 6061T6

**Strength, high capability normally used for hardware components**

Trimmers products use Extrusion & Forged Aluminum processing method. Trimmers products mainly uses 6463D during AL 6061T6 which is good for welding capability and coloring.

#### Recycled aluminum



**It makes a big difference to recycle.  
It makes a big difference to use recycled products.**

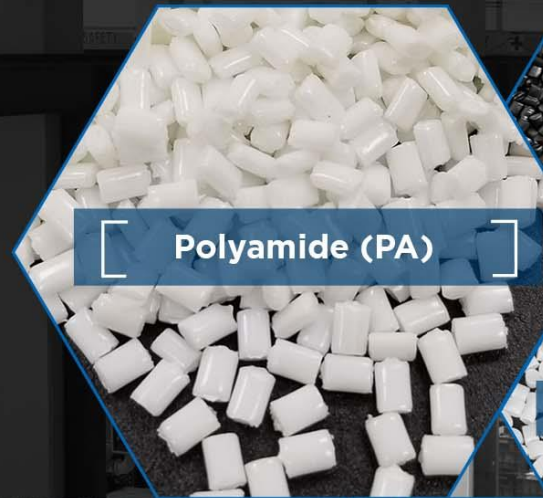


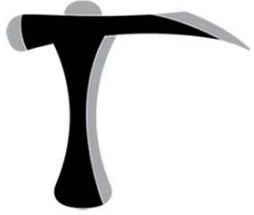


# PLASTIC

Trimmers use around 20 different kinds of resin raw materials such as Polycarbonate (PC), Polypropylene (PP), Polyamide (PA), Acrylonitrile Butadiene Styrene (ABS), TPU plastic etc.

When we produce injection-base products, we use the injection grinder and mixer depending on the product to produce. Every resin has their own characteristics and strong points which are compatible to use on the items that we are using them.





# PRODUCTION PROCESS



## PLANNING

## DESIGN & DEVELOPMENT

Moldshop . Development Center

## PRODUCE & PROCESS

## QA & QC

Test Lab

## FINISHED PRODUCT RELEASE

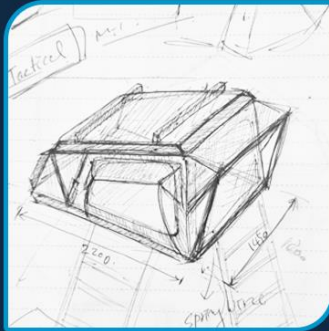
All production process is available in Vertical Production Line System. We can maintain high-quality standards while minimizing the time spent on manufacturing and production, minimizing errors, and increasing productivity by having a superior QC system.

Quality Management of Trimmers focuses and follows every Customers and Buyer's requirements.

We are also beginning to follow the guidelines of International organization for Standardization (ISO) and TS16949.



# ● PRODUCT DESIGN & ENGINEERING



## 1. CONCEPT SKETCHING

Initial 2D



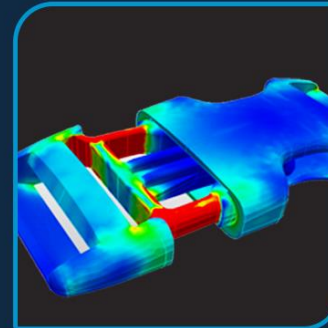
## 2. MECHANICAL DESIGN

Mechanical component review



## 3. 3D MODELING

3D data file driving mould tools and CNC



## 4. DESIGN ANALYSIS

Finite element analysis (FEA) - simulates forces and calculates strength.



## 5. TECHNICAL DRAWINGS

Component details, tolerance analysis and general arrangements.

# PRODUCTION

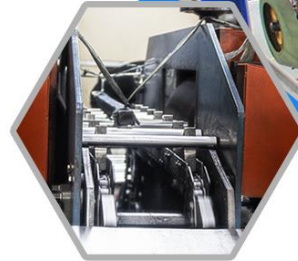
## MACHINERY

STAMPING/PUNCHING MACHINE	50
AUTOMATIC INJECTION MACHINE	28
TUBE CUTTING MACHINE	19
BENDING MACHINE	
CNC MACHINE CENTER	
AUTO ASSEMBLY MACHINE	01
ANODIZING FACILITIES	03
LASER ETCHING INSTRUMENT	04
ELECTRIC DISCHARGE MACHINING (EDM)	03
WIRE CUTTING MACHINE	07
MILLING MACHINE	07
GRINDING MACHINE	04
LATHE MACHINE	01
RIVET MACHINE	10
VACUUM THERMOFORMING	05

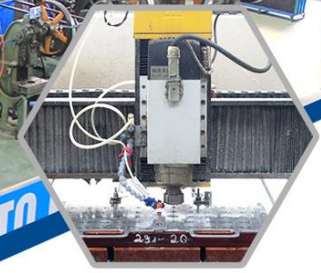
## UNITS



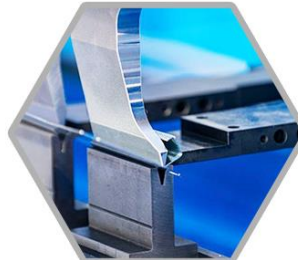
STAMPING/PUNCHING MACHINE



DEBURRING TOOLS



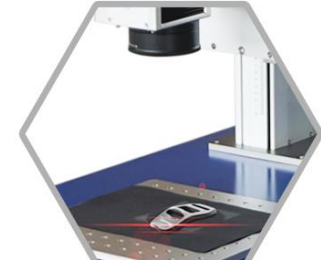
WIRE CUTTING MACHINE



3D BENDING MACHINE



AUTOMATIC INJECTION MACHINE



LASER ETCHING INSTRUMENT



VACUUM THERMOFORMING



CNC CUTTING MACHINE



MILLING MACHINE



CNC MACHINE CENTER

- Wheel systems: 400,000 sets / month
- Retractable Handle Systems: 800,000 sets / month
- Man Power : 700 people



# TEST LAB



TENSILE STRENGTH TEST



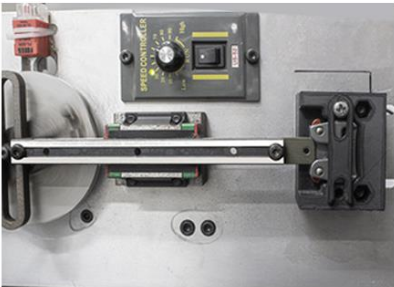
DROP TEST



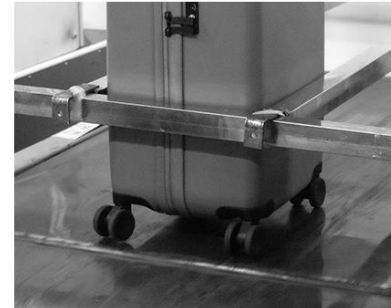
MILEAGE TEST (2 WHEEL)



JERKING TEST



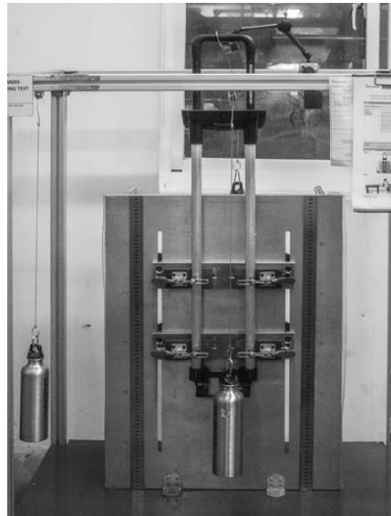
BUCKLE FATIGUE TEST



MILEAGE TEST (4 WHEEL)



IPX TEST



HANDLE WOGGLING TEST



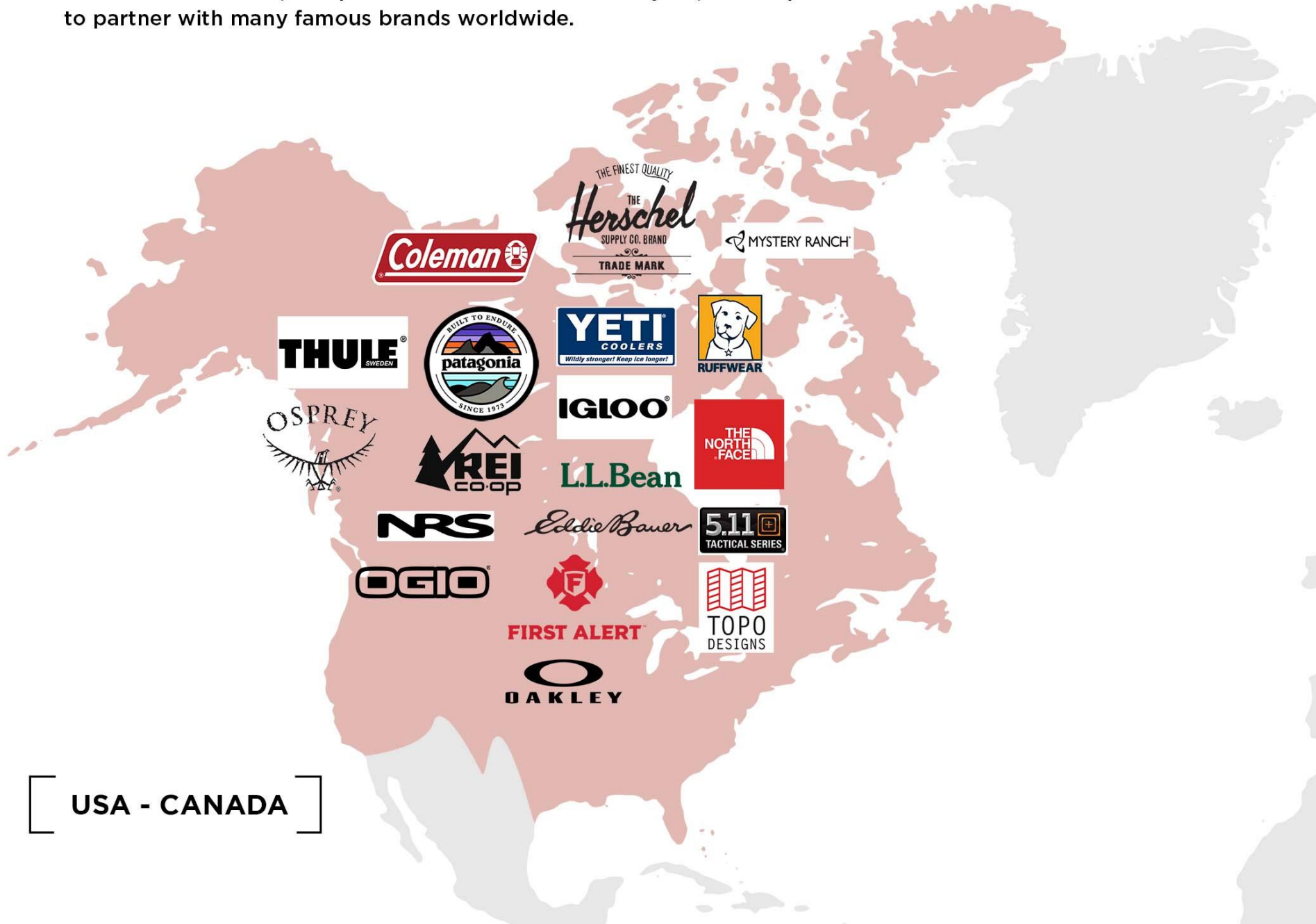
ANTI - CORROSION TEST



HANDLE TELESCOPING TEST

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