

- AIR SPRING SYSTEMS
- BOGIE SUSPENSION ELEMENTS
- INTER COACH GANGWAYS
- SEISMIC ISOLATION BUILDINGS & BRIDGES

for

RAILWAY SYSTEMS

COMPANY PROFILE

RESISTOFLEX was founded in 1947 by Late Mr. R.K. Jain after graduating in Electrical & Mechanical Engineering from BHU, India. He was joined by Mr. Ratish Jain, B.Tech & Silver medallist from IIT Delhi. He forged several alliances with globally acclaimed companies in related fields. Presently the third generation lead by Mr. Aradhya Jain, B.Tech BITS Pilani University is taking the vision forward. Further RESISTOFLEX was co-opted to the Mechanical Vibration and Shock Sectional Committee of Bureau of Indian Standards.

WE offer a comprehensive range of products for **RAILWAYS** including:

Air Spring Systems
Vibration & Seismic Isolation
Automatic Sliding Doors
Inter Coach Gangways
Passenger Seats & Berths
Track Fastening Systems

RESISTOFLEX is **ISO 9001:2015 Certified** and offers complete engineering services which includes : Diagnostic Investigation, Technical Analysis, System Design, Supervision of Installation, Performance Evaluation & Post Monitoring.

RESISTOFLEX has advanced computer programs and decades of experience to design and recommend the most efficient and economical isolation system for applications as diversified as passive isolation of Delicate Instruments and active isolation of massive Forging Hammers.

Nearly one million products are made on a floor area of over 150000 sq. ft. in 4 modern plants equipped with latest manufacturing and dynamic test facilities. Many products are regularly exported to U.S.A., U.K., France, Germany, Middle East, Taiwan, Korea, etc



CORPORATE OFFICE AND PLANTS

CORPORATE HEADQUARTERS AT NOIDA



"India's first Earthquake Isolated Corporate Building-on-Bearings"

NOIDA OFFICE AND PLANT





GREATER NOIDA PLANT



COMPANY PROFILE

COLLABORATIONS (RAILWAYS)



AIR SPRINGS & SUSPENSION SYSTEMS for Road and Rail Vehicles, Pneumatic Actuation and Vibration Isolation.



SINGLE LEAF PLUG DOOR for high speed trains. SLIDING DOORS for Metro, EMU, MEMU IC doors.

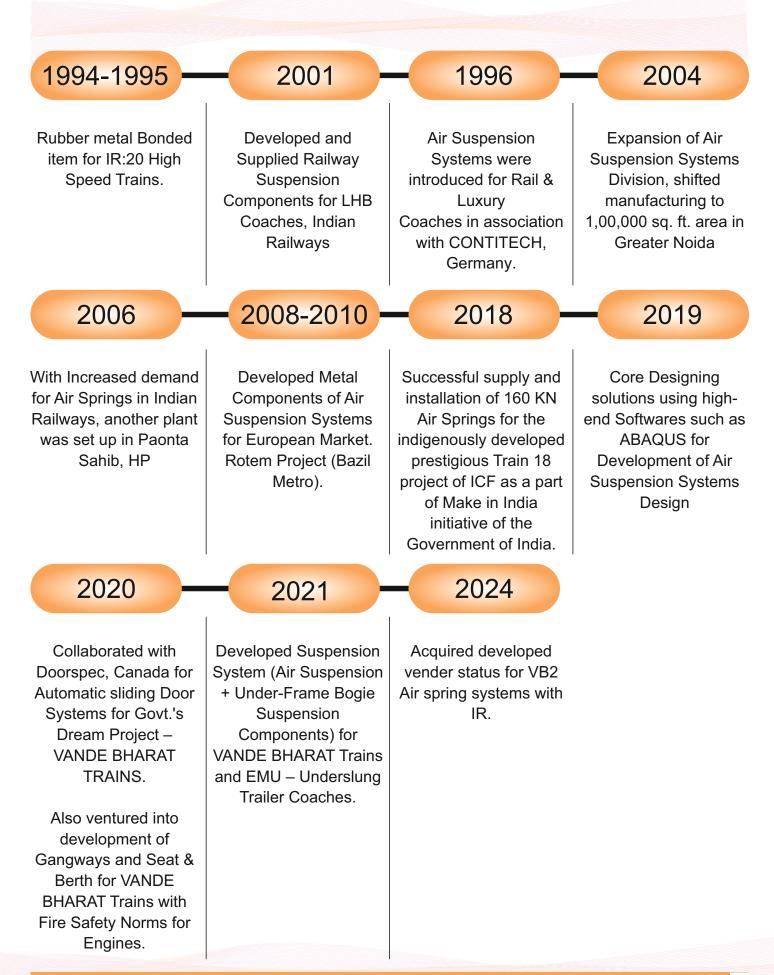
STRENGTH

HEADQUARTERS	:	NOIDA
PLANTS	:	4
LAND AREA	:	45,000 SQ.M.
COVERED AREA	:	1,50,000 SQ.FT
EMPLOYEES	:	450+

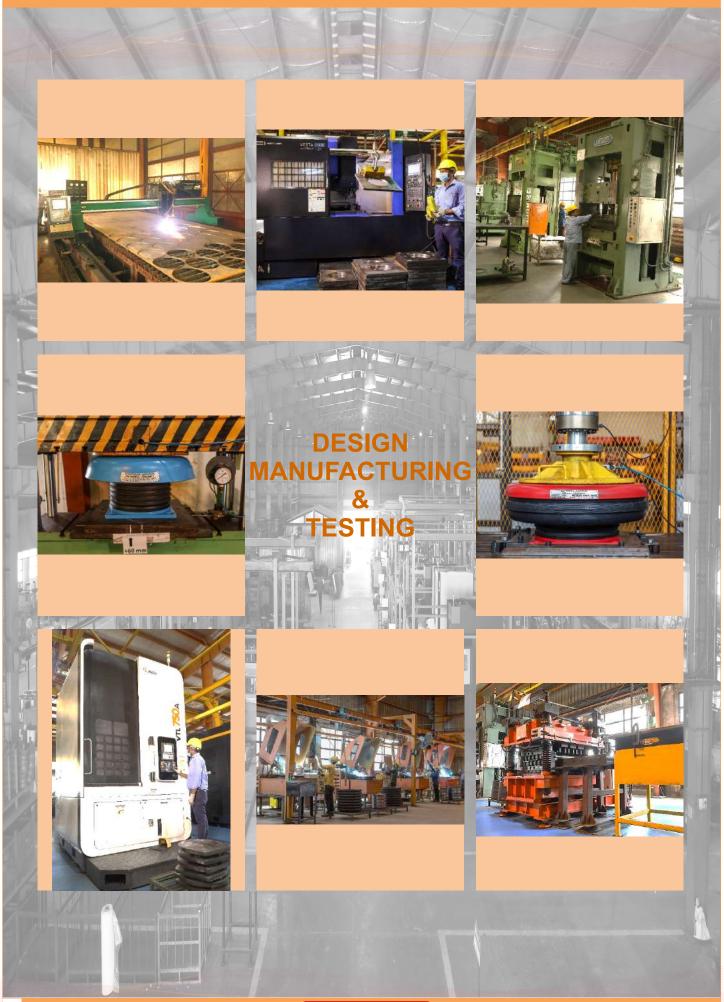


MAJOR MILESTONES

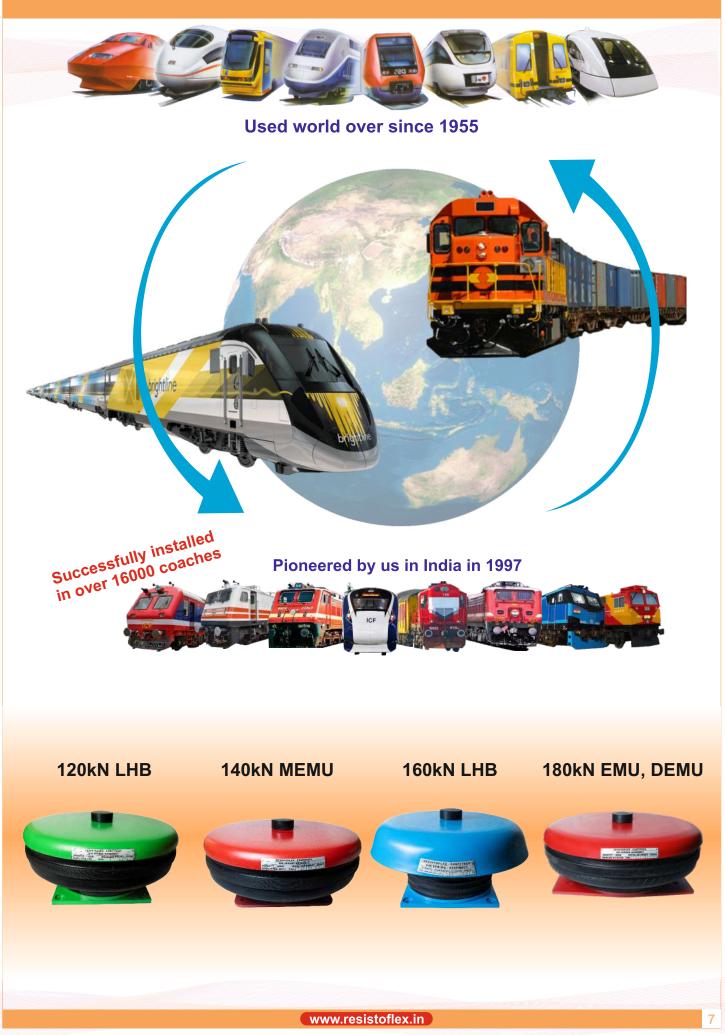
RESISTOFLEX RAILWAYS DIVISION



IN-HOUSE FACILITIES



AIR SPRING SYSTEMS



AIR SPRING



RESISTOFLEX AIR SPRING (160kN) in first made-in-India engine-less train "TRAIN 18"







BOGIE SUSPENSION ELEMENTS





Ball Joint Traction Lever



Axle Box Pivot Bush



Rubber Pad for Longitudinal Bump Stop

FOR EQUIPMENTS





Primary Bump Stop



Traction Center Elastic Joint



Rubber Pad for Primary Suspension



Rubber Spring



Lateral Bump Stop



VANDE BHARAT T18





Primary Suspension Bush







Motor Suspension Pad



Side Bumper



Central Pivot Bush



Motor Suspension Bush



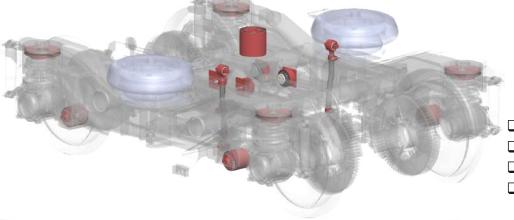
Stabilizer Link



Rubber Pad



Bump Stop Primary Suspension



Maximizes

Vehicle Dynamics
Ride Comfort
Sound Insulation
Safety & Service

RESISTOFLEX DOOR SYSTEMS

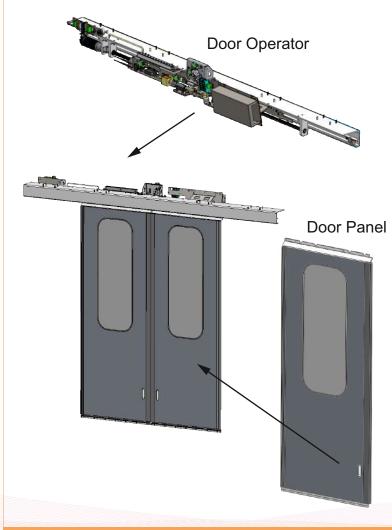


FEATURES:

- ★ Electric or electro-pneumatic
- ★ Lubricant free lead screw or belt system
- ★ Encoder Counts and ECU Current Obstacle Detection Monitoring System
- ★ Fault Diagnostics
- ★ Communications Link with TMS
- ★ Monitoring and diagnostics on PC
- ★ Optional reduced force push back
- ★ Audible and visual door close warning
- ★ Out of Service Lock
- ★ Passenger open Push Buttons or Push Plate
- ★ Effective Noise Reduction
- ★ Effective solution for reduce heat transmission
- ★ Emergency release
- ★ Designed as per EN specifications

MAIN COMPONENTS OF SLIDING DOOR

Complete Door Assembly





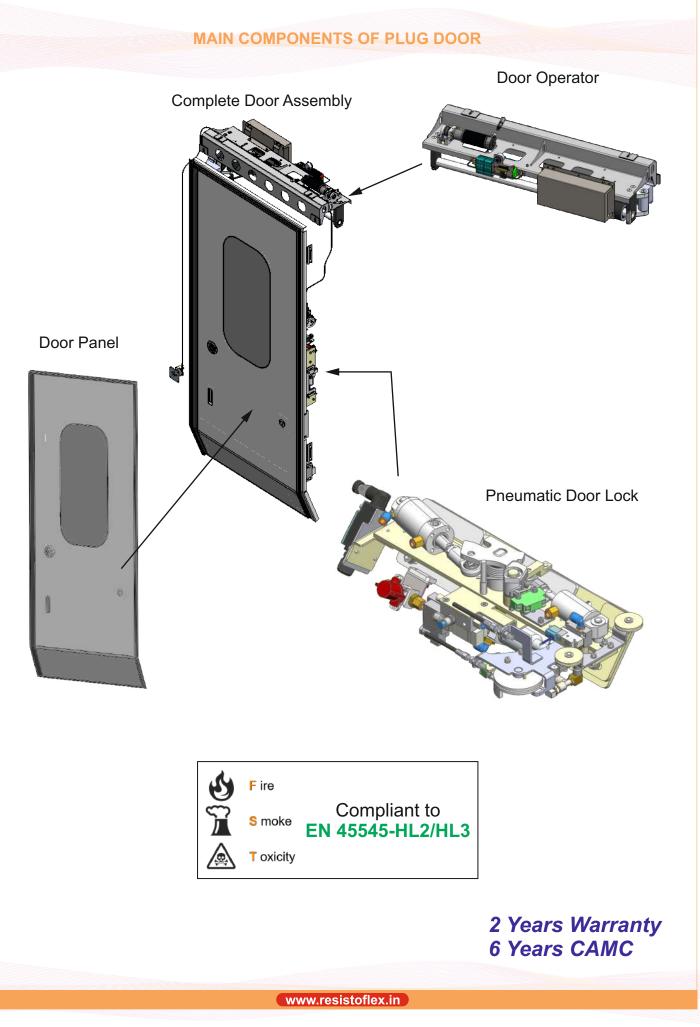
View from Outside



View from Inside

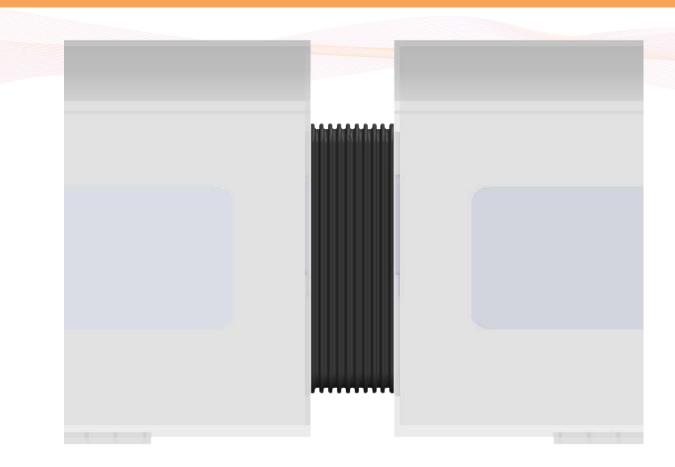
RESISTOFLEX DOOR SYSTEMS

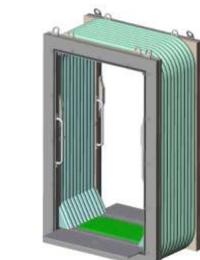


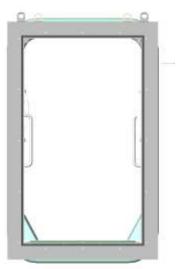


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INTER COACH GANGWAYS







FEATURES:

- ★ Allowing safe inter coach passenger movement
- ★ Exceedingly flexible to any turning radius
- ★ High performance sound, water and pressure proofing
- ★ Fire retardant



ANTI-SEISMIC DEVICES

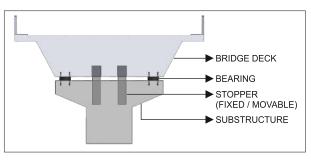
BRIDGES

STEEL BOX STOPPERS

FEATURES

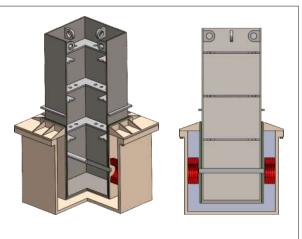
- · Providing a second line of defence
- Designed to eliminate the possibility of unseating of bridge
- Secures structural integrity of the bridge under extreme seismic movements
- Movable Stoppers allow the in-service movements of the bridge deck, WITHOUT transmitting significant loads to piers and their foundations

VISCOUS DAMPER STOPPERS



FEATURES

- It has a mechanism that allows a fixed-moved design based on the requirement
- It has been adopted in around 100m span Bridges
- The gap between body and box is filled with viscous fluid
- Viscous fluid is velocity dependent. The resistance is small for small displacements but large during earthquakes

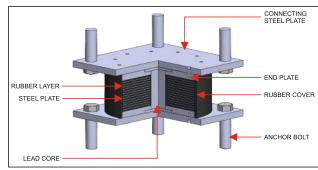


BUILDINGS / BRIDGES

SEISMIC ISOLATION SYSTEMS

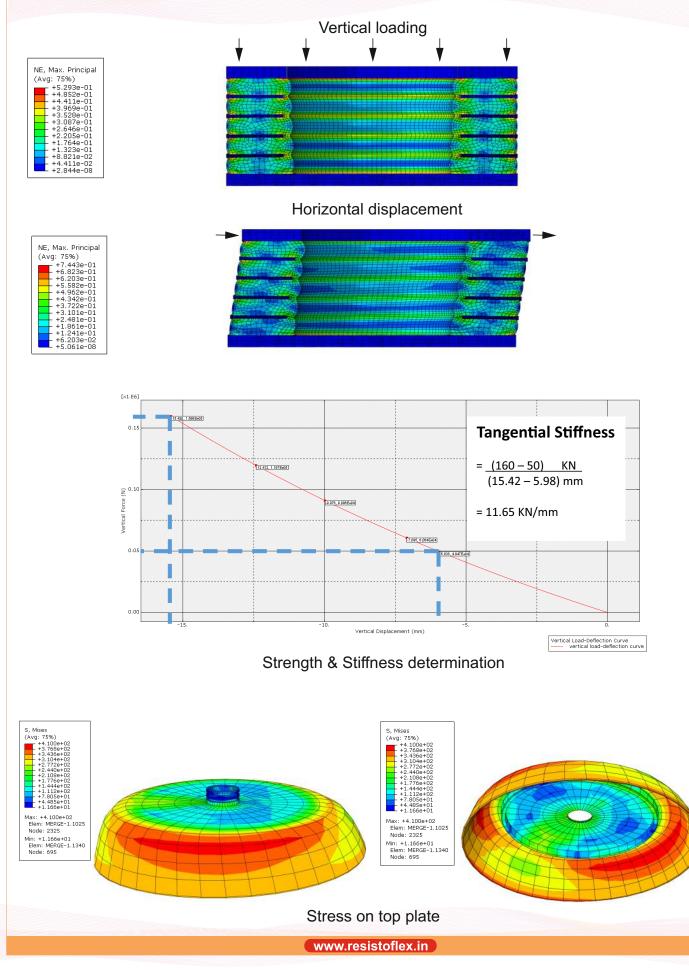
ADVANTAGES

- Uncouples a bridge superstructure from the horizontal components of earthquake ground motion, leading to a substantial reduction in the forces generated by an earthquake.
- Designed for "continued functionality" after a seismic event.
- Base Isolation using LRBs will ensure minimal Damage/No Failure of bridges during earthquakes which otherwise may lead to extreme delays in post-disaster relief operations to a region.
- Excellent alternative to conventional "steel rocker bearings" which are prone to damage even during slightest shaking.



IN HOUSE DESIGN FACILITY

Over the years, RESISTOFLEX has ventured into Core Designing solutions using high-end Softwares such as ABAQUS for Development of Air Suspension Systems Design



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RESISTOFLEX DYNAMICS PVT. LTD.

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