

RESISTOFLEX

SINCE 1947

Vibration Shock Seismic Control



- **VIBRATION, SHOCK & NOISE CONTROL**
- **FLEXIBLE PIPING SYSTEMS**
- **AIR SPRINGS & SUSPENSION SYSTEMS**
- **AUTOMATIC DOOR SYSTEMS**
- **SEISMIC BASE ISOLATION SYSTEMS**
- **SEISMIC RESTRAINT 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. Further RESISTOFLEX was co-opted to the Mechanical Vibration and Shock Sectional Committee of Bureau of Indian Standards.

RESISTOFLEX offers a most comprehensive range of products comprising of :

- **Application Engineering**
- **Shock, Vibration & Seismic Engineering**
- **Flexible Piping Systems**
 - for
 - Industrial Equipments
 - Machine Tools & Forging Hammers
 - Heavy Machines
 - Army Vehicles, Tanks, Shelters
 - Naval Ships & Submarines
 - Aerospace
- **Air Spring Systems**
- **Automatic Door Systems**
 - for
 - Railways
- **Base Isolation Systems**
 - for
 - Building & Bridges

RESISTOFLEX 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 insulation of Delicate Instruments and active isolation of massive Forging Hammers.

Nearly one million products are made on 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



NOIDA PLANT II



GREATER NOIDA PLANT



OUR COLLABORATORS



CONTITECH – CONTINENTAL, GERMANY : AIR SPRINGS & SUSPENSION SYSTEMS FOR ROAD AND RAIL VEHICLES, PNEUMATIC ACTUATION AND VIBRATION ISOLATION



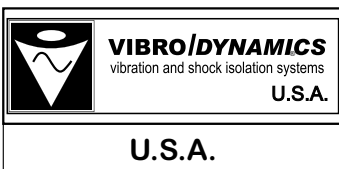
SOCITEC, FRANCE : WIRE ROPE ISOLATORS FOR DEFENCE, AEROSPACE AND RAILWAYS



VIKRAM SARABHAI SPACE CENTRE : IN-FLIGHT SILICONE SHOCK & VIBRATION ISOLATORS



IIT DELHI, CIVIL ENGINEERING DEPARTMENT : DEVELOPMENT OF SEISMIC BASE ISOLATION SYSTEMS AND SEISMIC RESTRAINT SYSTEMS.



VIBRO DYNAMICS CORPORATION, USA : VIBRATION, SHOCK ISOLATION SYSTEM FOR FORGING HAMMERS AND MACHINE TOOLS



DOORSPEC INTEGRATED DOOR SYSTEMS : SINGLE LEAF AUTOMATIC SLIDING DOORS FOR RAIL COACHES



WUXI FUYO TECH CO. LTD : LEAD RUBBER BEARINGS FOR SEISMIC ISOLATION AND VISCOUS WALL DAMPERS FOR BUILDINGS



Used world over since 1955



Successfully installed in over 16000 coaches

Pioneered by us in India in 1997



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

LHB-FIAT



For new generation trains



Silent Bloc
Centre Pivot



Silent Bloc
Anchor Link



Lateral Bump
Stop



Hollow Rubber
Spring



Elastic Connection
Control Arm

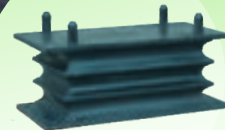
HHP-DMU



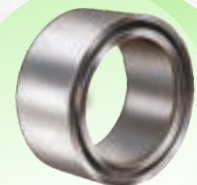
Fleximount 500s



LOCO



Side Bearer

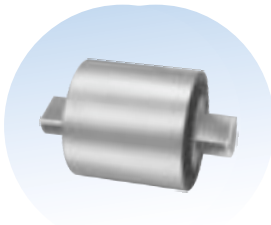


Elastic Bush

IR-20



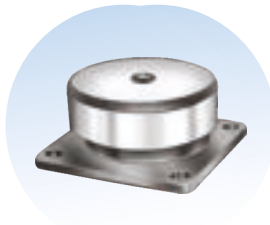
Damper Ball Joint



Elastic Connection for Control Aim



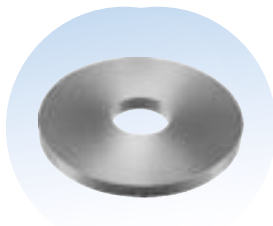
Silent Bloc Bush



Roof Top A.C. Mounting



Upper/Lower Rubber Washer



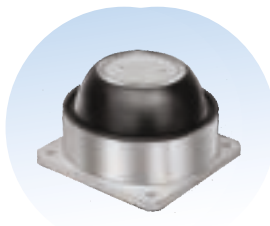
Flockilised Rubber Pad



Lateral Rubber Stop



Draft Spring Pad



Bogie Isolator Stop



Body Bogie Elastic Connection

❑ *Maximizes*

- ❑ Vehicle Dynamics
- ❑ Ride Comfort
- ❑ Sound Insulation
- ❑ Safety & Service

Naval Ships



Shock & Vibration Mountings, Air Mounts, Cable Mounts, Bellows, Dampers....

Quality, Reliability, Precision and Innovation are our fundamentals for the vital role, these products have to play in the complex modern Defence Systems. Performance is assured under extreme environmental conditions. Mounts are TYPE APPROVED & withstood BARGE TEST, the most severe NAVAL SHOCK qualifying test.

Validated Software Programs Analyze Systems including NAVAL SHOCK NSS I & II to select mounts. Our Mounts protect delicate electronic equipments in European Naval Vessels.

Engineered to Perform.....

ACOUSTIC TILES

Every Submarine has an unique and distinctive signature. Our Acoustic Rubber Tiles encapsulate the entire submarine to modify or manipulate these signatures to confuse the enemy.

This technique of SIGNATURE MANAGEMENT enhances safety.

..... VITAL FOR SURVIVAL



Submarines



In-flight Silicone Isolators insulate Avionic Modules from harsh vibration, noise and nano shocks during lift off and stage separations to the final launch of Satellite in space.



Ground Transportation

Extremely high shocks are cushioned to protect sensitive equipments during transportation, on-field operation and enemy attacks

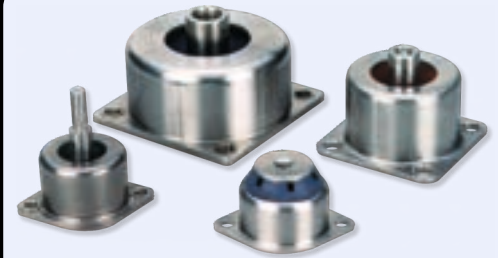
Elastomeric - Leaf Spring - Cable Mount, Air Suspension System.....
turn bumpiest of roads into smooth highways

Protecting Instruments, Radars, Computers, Disc Drives, CRT, AC Units, Electrical Cabinets, Switch Boxes, Telecommunication Equipments, Electronic Racks, Generators etc. in Ground Support Vehicles, Shelters & Battle Tanks. Missiles, Torpedoes, Engines, Space Satellites during transportation





Vibration & Shock Mounts



Silicon Isolators



Elastomeric Mounts



Air Suspension



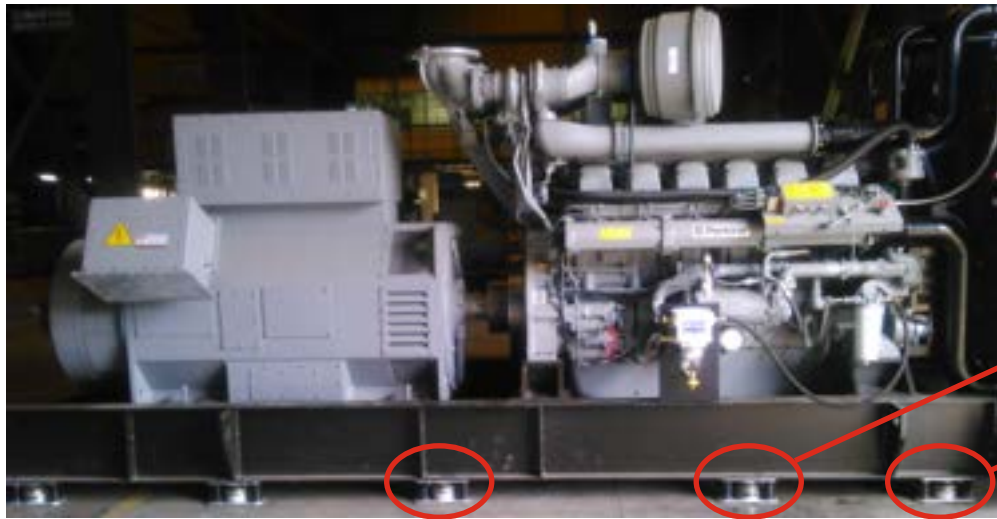
Cable Mounts



Fan Coil Unit suspended from ceiling using Spring Hangers



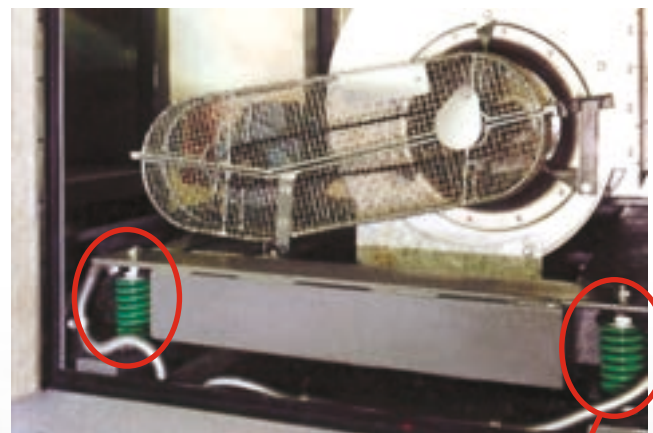
MEJ isolate vibration in Pumps of Honda car Factory



Spring Viscous Damper Systems isolate 1MW DG Set



Rubber Expansion Joints at Metro Stations

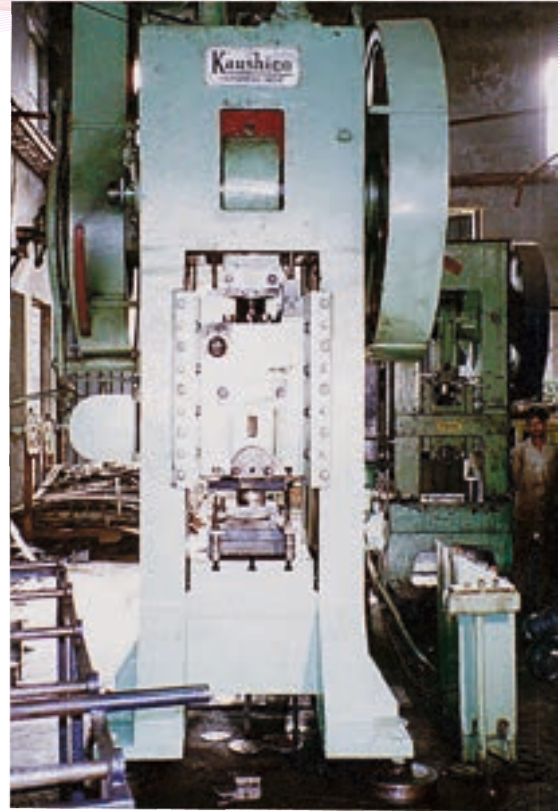


Open Spring Mounts isolate vibration in Fans





Anvil Pad for 250 KJ Hammer



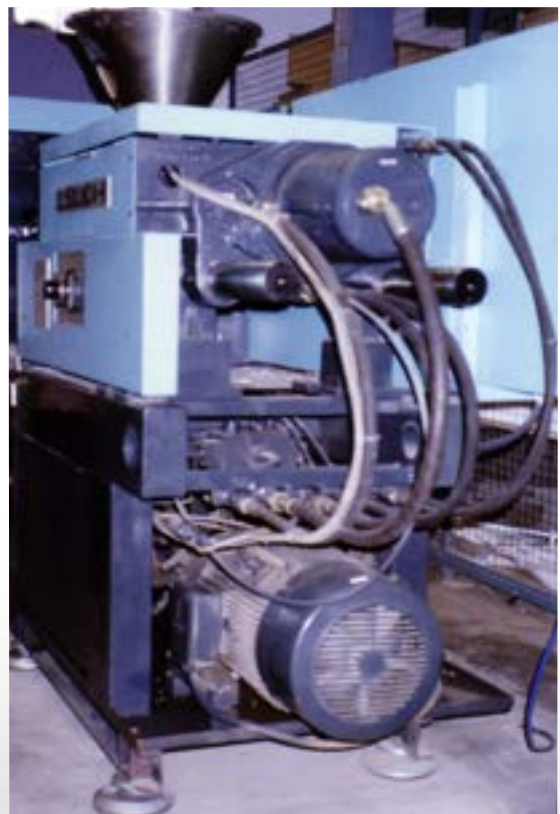
Power Press on Machine Mounts
without foundation



Pads are vastly superior to Timber



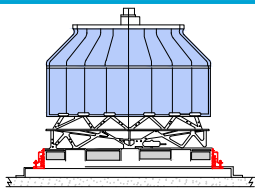
Rubber Mounting isolate vibration in
Dynamic Weigher Machine



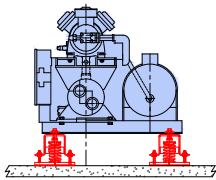
Plastic Injection Moulding Machine
installed on first floor

ROOF TOP EQUIPMENTS

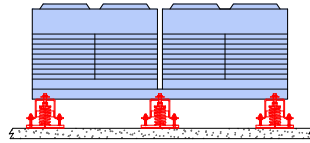
Spring Isolators and Flexible Connectors prevent transmission of vibration & noise to floors under it.



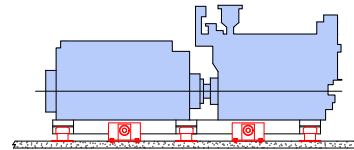
COOLING TOWER



CHILLER



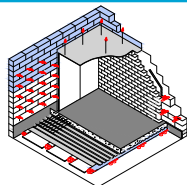
AIR CONDITIONER UNIT



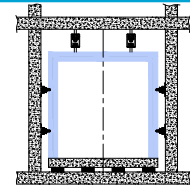
DG SET

FLOATING FLOOR

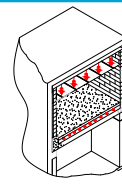
For Suite, Conference & Computer Rooms. Vibration & Noise coming from the mechanical equipments must be isolated with Floating Floors & Acoustic Hangers or a Room within Room construction.



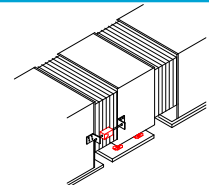
TYPICAL INSTALLATION



ROOM WITHIN ROOM



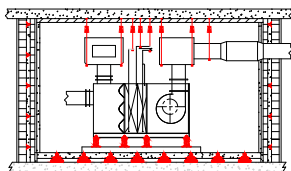
FLOATING FLOOR



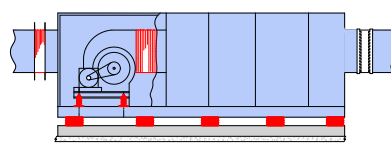
THRUST RESTRAINT

SERVICE FLOOR

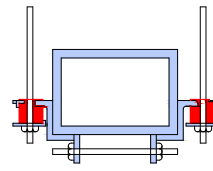
AHU, Blowers, Pumps require Inertia Pouring Frames with integral Vibration Isolators. All duct work and pipe work connections must have flexible connections.



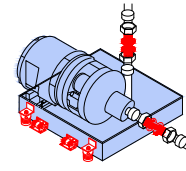
TYPICAL INSTALLATION



AIR HANDLING UNIT

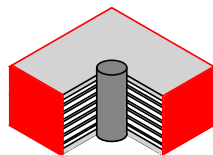


SUSPENDED AHU / DUCT



PUMP

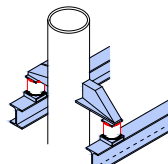
BASE ISOLATION



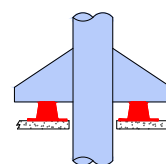
SEISMIC BEARING

PIPELINE

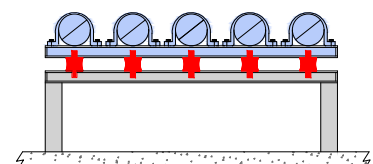
Should be isolated from the building structure with Spring / Rubber Hangers or mountings and Flexible Connectors.



PERPENDICULAR PIPING



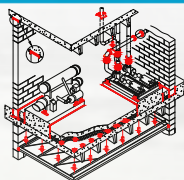
VERTICAL PIPING



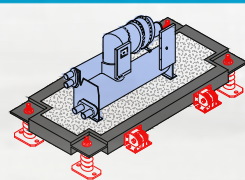
HORIZONTAL PIPING

PLANT ROOM

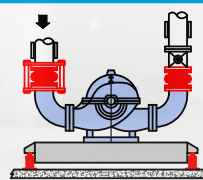
Equipments should be installed on Aseismic Inertia Pouring Frame with integral Vibration Isolators and Seismic Snubbers.



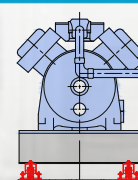
ISOLATED ROOM & EQUIPMENTS



CHILLER ON ASEISMIC FRAME



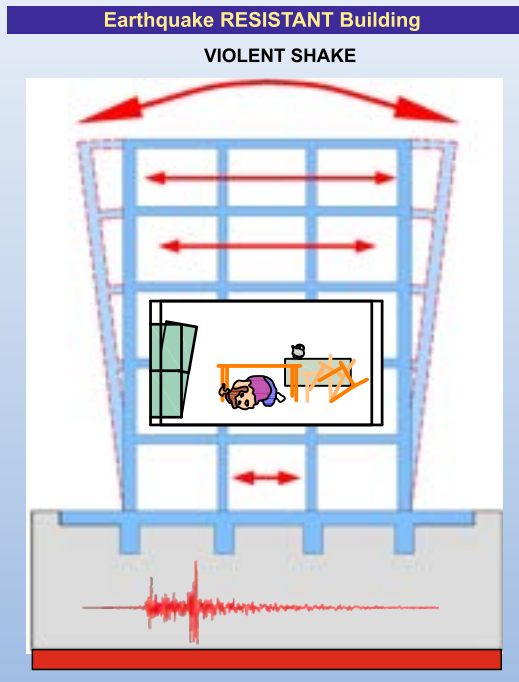
PUMP



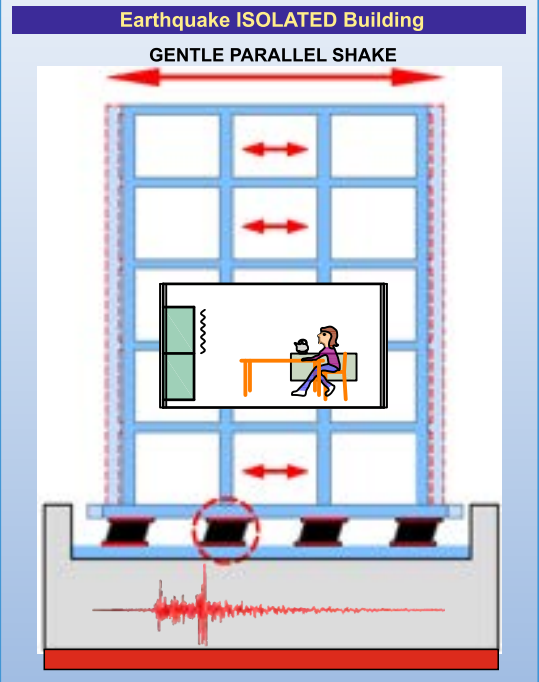
REFRIGERANT COMPRESSOR



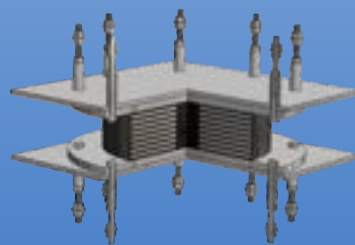
SEISMIC BEARING
Decouples the buildings from the ground and absorbs the earthquake energy



- Building is jolted. The violent shaking of floors increases in the ascending floors.
- Earthquake energy is absorbed by damage of columns or beams.
- Violent shakes felt inside the building result in **injury** to PEOPLE and **damage** to PROPERTY.....



- Building superstructure decoupled from the foundation.
- Earthquake energy is absorbed by **BEARINGS**.
- Building shakes gently and slowly **protecting** occupants & property.



Lead Rubber Bearing



Sliding Pendulum Bearing



Seismic Snubbers protect HVAC equipments against Earthquakes



Coal Crushers on Spring Dampers in Power Stations



Base load Gen Set installed on Mountings without foundation



Diesel Gen Set on Spring Damper with over 95% Vibration Isolation



Vibration Isolated Table at IIT DELHI



Roof Top Chiller installed on Spring Damper System

VIBRATION & NOISE CONTROL



Sliding Pendulum Isolator protect buildings and their occupants from the atrocities of Earthquake.



MIPF has been developed for use with machinery which produce high level of vibration or those which are subjected to external forces or are simply unstable.



165MT Coal Crusher installed on Spring Viscous Damper System on 5 Storey Steel Tower at GEB Wanakbori TPS



100MT Atrium installed on Uni Directional Bearing with built-in protection against uplift due to wind pressure & earth quakes.



Neoprene Rubber Expansion Joints installed at Bhabha Atomic Research Centre in 1992 performing satisfactorily even today



Manufacturing
Material
R & D
Design
Testing
Exports



CERTIFICATIONS

CERTIFICATE
TO WHOM SO EVER IT MAY CONCERN

This is to certify that M/s RESISTOFLEX (P) LTD., B-103, SECTOR 5, NOIDA-201 301 Have developed 4" Bore & 5" Bore, JET PACK FIRE PACK BELLOWS, against M/s GARDEN REACH SHIPBUILDERS & ENGINEER LTD., CALCUTTA order No. HN/42/NE-788/OR/3010/026 dated 14 Jul 98.

The type approval test to DGS 1055, was carried, on 4" Bore bellows, which consist mainly of following tests:-


(A) Low Temp. Flexibility test	:	Flexibility at -10°C
(B) Pressure test	:	15 kg./cm ²
(C) Stiffness test	:	Axial & Lateral displacement under 10 kg./cm ² pressure
(D) Endurance test	:	1,00,000 cycles under pressure impulses, Vibrations & at 70°C temp.
(E) Vacuum test	:	28" vacuum at 55°C temp.
(F) Proof pressure test	:	Till bursting
(G) Flame resistance	:	10 Min. Under flame

It is certified that Jet Pack Fire Bellows have been put to use on Naval Ship.

(S.AILAWADI)
LT.CDR, IN.
QUALITY ASSURANCE OFFICER (WE)

NO.QAE(D)/E/3158
DATED 04 JUL 2000

M/S Resistoflex (P) Ltd.,
B-103, Sector-V,
Noida - 201 301



Naval School & Technological Laboratory
Defense Research & Development High-Voltage, High-Frequency, High-Power Lab

Date: 28 Aug 2000

To: M/s Resistoflex (P) Ltd., B-103, Sector-V, Noida, UP, India.

From: Lt. Cdr. S. Ailawadi, IN, Quality Assurance Officer (WE)

Subject: Jet Pack Fire Bellows

Reference your order No. HN/42/NE-788/OR/3010/026 dated 14 Jul 98 regarding the Laboratory test results of your Shock & Vibration tests.

The place of destination is:-

Specimens: 4 (04) Pairs for Shock & Vibration Measuring Type 'A' (0.25 to 1.00 g) as per Drawing of Type 'A' attached.

Specimens: 0 (00) Pairs for Shock & Vibration Measuring Type 'B' (0.25 to 1.00 g) as per Drawing of Type 'B' attached.

We confirm that the results, under your name and with the complete names of Test Test and Shock Test of 100 Cycles.

Thanking you,



EQUIPMENT SPECIALISATION CENTRE

It is hereby notified that the **RESISTOFLEX** has been recognized as a **Center of Excellence on Shock Mounts**.

Resistoflex, NOIDA have been recognized as a Center of Excellence on Shock Mounts. Commander – QAO Warship Equipments

(S.P. JHA)
COMMANDER
QUALITY ASSURANCE OFFICER (WE)

TO WHOMSOIT MAY CONCERN

Sri S.N.Bagchi, Head-Technical Design, M/s. Resistoflex Private Limited, New Delhi has made a commendable contribution in designing most efficient Shock & Vibration control for first of its kind Nitrogen Plant, developed by M/s. Kirloskar Pneumatic Company Limited, Pune.

The plant is very complex with weight up to 23 tons. Sri S.N.Bagchi has come out with an innovative configuration, designed and efficient and economical design, which is highly and cost-effective.

Sri S.N. Bagchi, Head-Technical Design, M/s Resistoflex Private Limited, New Delhi-NCR has made a commendable contribution in designing most efficient Shock & Vibration Control for first of its kind Nitrogen Plant, developed by M/s Kirloskar Pneumatic Company Limited, Pune.

I wish him all the best in future.

Thanking you,

Yours faithfully,

(AVS CHARI)
Former Scientist 'G'
NSTL, DRDO

Phone : 9490149041
email : charinst@gmail.com

Certificate of Registration

The official registration number is:-

Resistoflex Pvt. Ltd.

B-103, Sector 5, Noida, Uttar Pradesh, 201301, India

An organization in the registration of the registration number is:-

ISO 9001:2015

The scope of activities covered by the certificate is defined below:

Design, Manufacture and Marketing of Vibration, Shock and Seismic Control Systems

Current date: 02/12/2021
Certificate-Register-No: 50254232



IRIS Certification

CERTIFICATE

awarded to

RESISTOFLEX DYNAMICS PRIVATE LIMITED
PLOT NO: 27-28, UDYOG VIHAR, GREATER NOIDA
201306, GAUTAM BUDDH NAGAR, UTTAR PRADESH
India

DOS GmbH

confirms, as an IRIS Certification[®] approved certification body, that the Management System of the above organization has been assessed and found to be in accordance with the

IRIS Certification[®] Conformity assessment:2020 and based on ISO/TS 22163:2017

for the activities of Design and Development and Manufacturing for the scope of certification: 03 (Guidance) of Air Spring Assembly

Certificate valid from: 29/11/2021 Certificate valid until: 13/10/2024*

Current date: 02/12/2021
Certificate-Register-No: 50254232

* Providing that the subsequent surveillance audits are successful before the validity date of the previous audit.
Certification body address: August-Schnee-Strasse 21, 60433 Frankfurt am Main, Germany
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Certificate of Registration

The official registration number is:-

Resistoflex Pvt. Ltd.

B-103, Sector 5, Noida, Uttar Pradesh, 201301, India

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PRODUCT RANGE

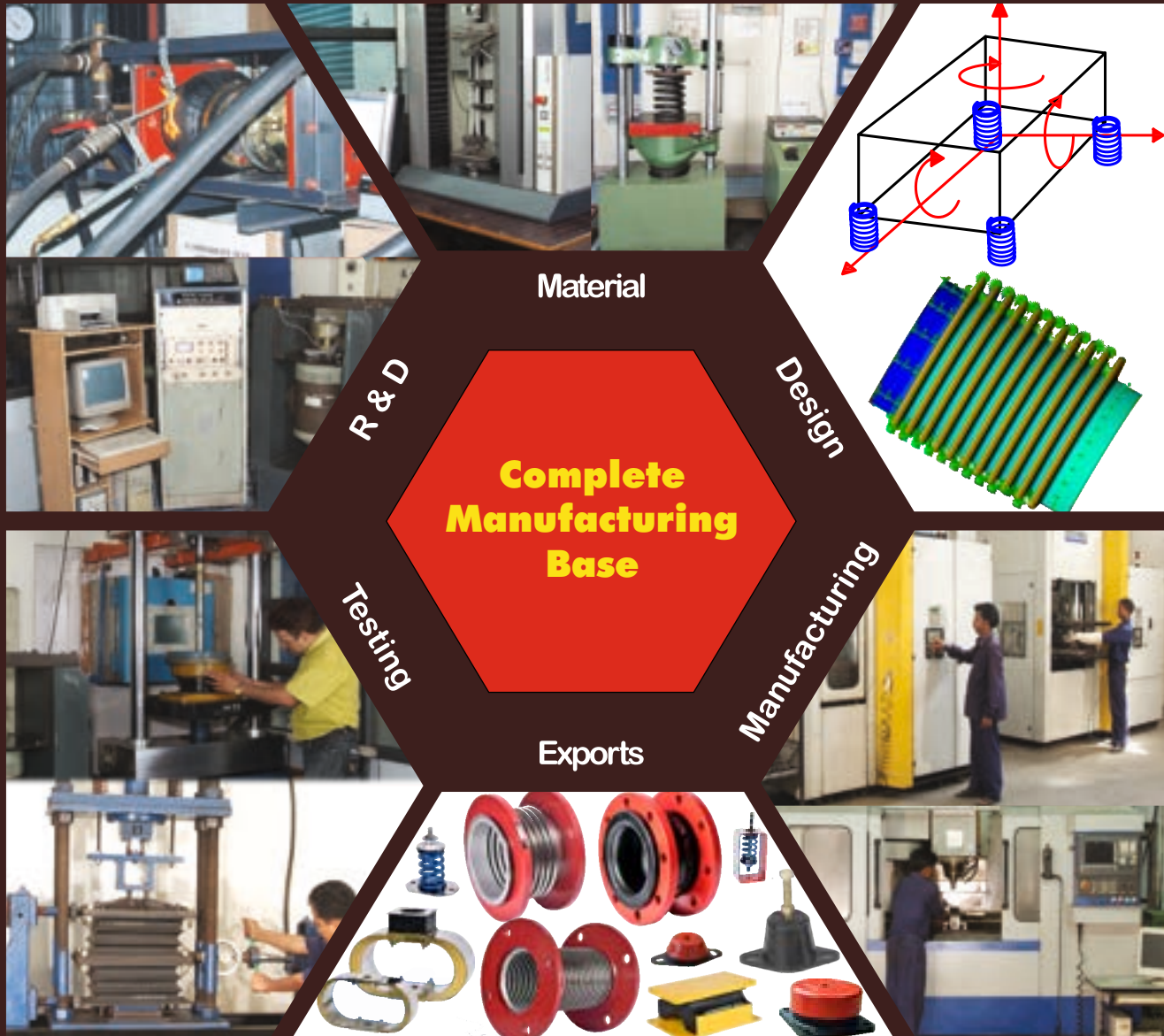


Our

- Holistic Approach
- Innovative Technologies
- Foreign Collaborations
- Bundled Capabilities
- ISO 9001 Certification

Assures

Top performance over long life



RESISTOFLEX GROUP

Corporate House

A-7, SECTOR-2, NOIDA - 201 301

RESISTOFLEX PVT. LTD.

Regd Off : B - 103, Sector-5, Noida,
Uttar Pradesh - 201301

CIN : U74899UP1984PTC173188

RESISTOFLEX DYNAMICS PVT. LTD.

Regd Off : A-7, Sector-2, Noida
Uttar Pradesh - 201301

CIN : U74899UP1992PTC183075



@resistoflex

STOCKISTS & REPRESENTATIVES

AHMEDABAD: 9227419844, CHENNAI: 7200618555, 9841295276, KOLKATA: 9831032788,
MUMBAI: 9167245537, 9819841344, NEW DELHI: 9801075849, VISAKHAPATNAM: 9440277852
REGIONAL OFFICE PUNE : Mobile : 98900 35205

E-mail : sales@resistoflex.in

www.resistoflex.in

Mob.: 98182 00361 - 364

ISO 9001