

INDO GERMAN INDUSTRIES

Spares under scope of supply

Deep Bhojwani

10/1/2021

Spares under our scope of supply



INDO GERMAN INDUSTRIES



Locomotive Products

- Side Bearer Pad for WAG7, WAG5, WCM6 Locomotives
- Resilient Bushings for WAG7, WAG5, WCM6 Locomotives
- Anti-vibration Rubber pad
- Suspension Springs
- All Rubber Seamless One - Piece Moulded Traction Motor Bellow
- Cleats of different types
- Liners based on Thermoplastic Polyurethane Elastomers replacing Metal liners
- Spring pad (Happy pad) for secondary suspension for Locomotives based on Thermoplastic Polyurethane Elastomers
- Bearing Adopter pad for Locomotives based on Thermoplastic Polyurethane Elastomers
- Bushes for Locomotives

Quality

Price
Workmanship
Reliability

Established
1977

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Freight Car / Wagon Products:

- Composite Elastomeric Pad for High Speed Bogies
- Modified Elastomeric Pad for Casnub Bogies and BOXN Wagons
- Poly Side Bearer Pad Assembly for Wagons.
- Side Bearer Pad for Casnub Bogies and BOXN Wagons
- Centre Buffer Coupler Draft Gear Rubber Spring for all types of Wagon.
- Rubber springs for MG Coupler (MCPH)
- R.F-8 Rubber Pads for High Tensile Coupler, for heavy haulage Freight Wagons.
- Centre Pivot Washer
- Thermoplastic Polyurethane Liners for BHNF Wagons
- Rubber Buffer Springs for Wagons.

Quality

Quality
Reliability
Price
Workmanship

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Passenger Car / Carriage Products:

- High Capacity Side Buffer Rubber Pads
- Silent Block for Anchor Link
- Silent Block for Centre Pivot
- Silent Block for Roll Link for Fiate Bogies
- Elastic Connection for Fiate Bogies
- Elasto Bush
- Bump Stopper
- Upper and Lower Rubber washer based on Polyurethane Elastomers

Quality

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LHB Suspension Components



BALL JOINT
TRACTION LEVER



AXLE BOX PIVOT
BUS



TRACTION CENTRE
ELASTIC JOINT



LATERAL BUMP
STOP



RUBBER SPRING



RUBBER PAD FOR
PRIMARY
SUSPENSION



PRIMARY BUMP
STOP



PAD FOR
SECONDARY
SUSPENSION

Quality

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Delivery

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LOCOMOTIVE PRODUCTS:



Standard Size: 460mm X 222mm X 180mm

Weight : Approx 40Kg

Standard Size: 355mm X 222mm X 165mm

Weight : Approx 25Kg

Injection Moulded Metal Bonded Side Bearer Rubber Pad - Used for Secondary Suspension of Bogies in Locomotives

- Accommodate High Compressive & Shear Loads
- Improved riding characteristics
- Absorbs shocks, vibration
- Capability of withstanding wide temperature variation
- Almost maintenance free

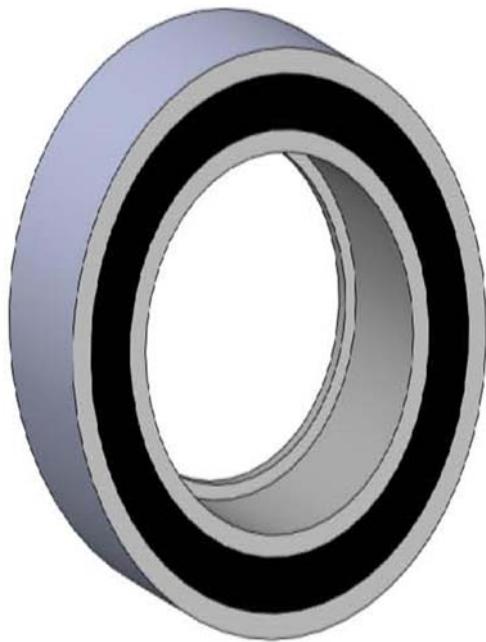
Quality
Dedibility
Price
Workmanship

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Standard Size: O.D 320mm
I.D 246mm Height : 149mm

Centre Bush - Used in connective device

- Absorbs shocks, vibration
- Accommodate torsional & radial motion
- Simple design & operation
- Zero maintenance

Quality

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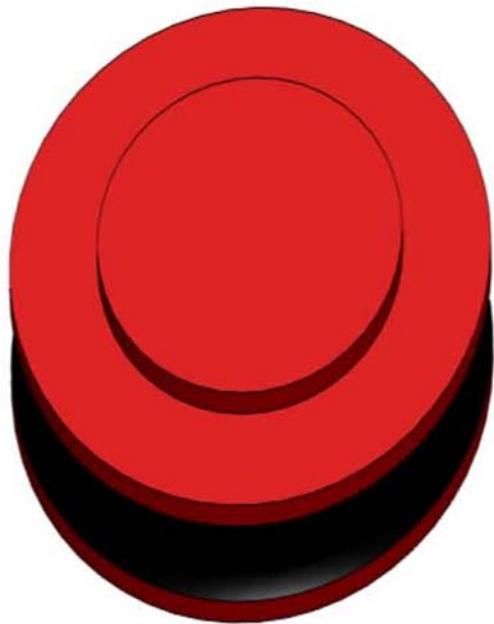


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Standard Size: OD 205 mm
Height : 33 mm

Anti-vibration Rubber Pad – Used in conjunction with coil spring in the suspension / traction system of Diesel & Electric Locomotives

- Absorbs shocks, vibration
- Accommodate motion
- Zero maintenance
- Capable of withstanding varying temperature & weather condition without loosing functional properties

Quality

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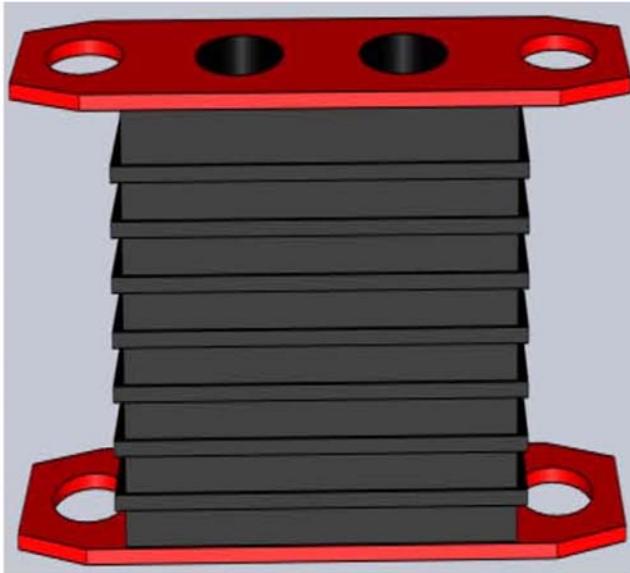
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Standard Size: 381 mm X 102mm
X 185 mm

Bonded Rubber Sandwitch Mounting for Nose Suspension of Traction Motor – Used for Traction Motor suspension & held between bogie frame & traction motor nose lugs

- Efficiently isolates, shocks, vibration, accommodate motion providing support to traction motor under compressive & shear loads
- Easy assembling with ease of pre compression
- Almost maintenance free
- Capable of withstanding varying weather condition with out deterioration of functional properties

Quality

Price
Workmanship
Durability

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Standard size & weight: 445 mm x 342 mm
Weight: 5 Kg.

All Rubber Seamless One -Piece Moulded Traction Motor Bellow – Used as a type of exclusion seal to convey air from blowers inside the locomotive bodies to the commutated chamber of the traction motor

- No seam, no joint, no fabric reinforcement hence no chance of adhesion failure
- Can withstand extremely stringent condition to resist lubricating grease, oil, heat, flame & extreme weather retaining rotational stiffness
- High air impermeability
- High flexibility very easy installation
- Zero maintenance

Quality

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Cleats – Used as insulator for cables for locomotive

- High insulation resistance
- Oil & flame resistance
- Weather & ozone resistance

Available in Various Sizes



Break Gear Bush based on Thermoplastic polyurethane - Used in place of nylon bush in the coaches.

- Better performance
- Higher life
- Better dimensional control

Quality

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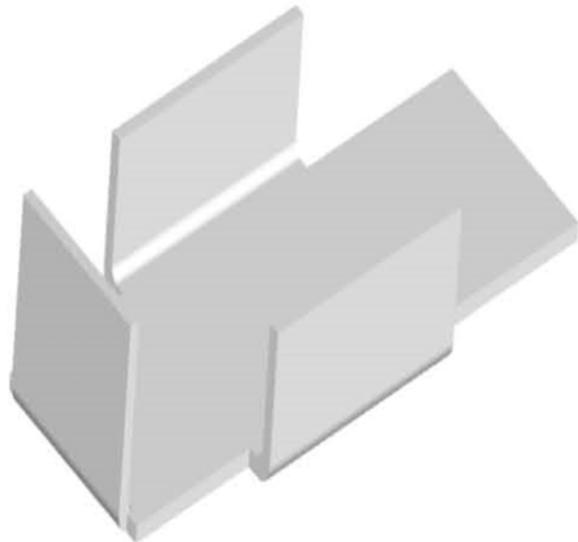
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Available in Various Sizes

Liners for Bogie frame axle box & bogie frame pedestal for high-speed locomotives based on thermoplastic polyurethane elastomers

- Almost five to six times higher life than manganese steel liners
- Light weight
- Excellent friction & wear resistance with adequate flexibility
- Excellent energy absorbing capacity with required deflection
- Easy installation
- Minimum down time for replacement for damaged liner
- Zero maintenance

Quality

Dependability
Price
Workmanship

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Spring Pad (Happy Pad) for secondary suspension for locomotive – Used above & below the helical coil spring used in locomotives

- Reduced fretting enhancing the life of the coil springs
- High load bearing capacity
- Excellent wear & tear resistance
- Excellent oil resistance
- Excellent weather resistance

Standard Size : O.D 225 mm
X ID 120mm X THK 10mm

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Price
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Reliability

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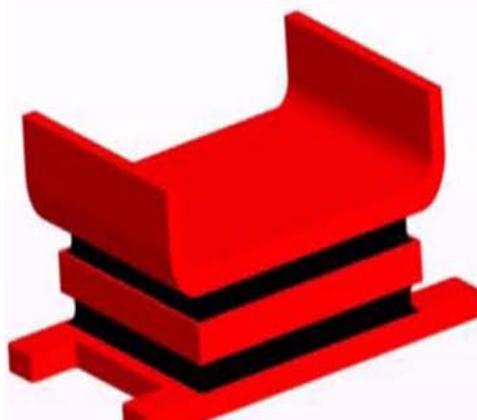
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FREIGHT CAR

WAGON PRODUCTS



Standard Size: 208 mm X
178 mm

Injection Moulded Modified Elastomeric pad for Casnub bogies and BOXN wagons – Used for self steering & other freight car bogies

- Reduced lateral force
- Accommodate motion without wear
- Reduced wheel wear
- Eliminate adopter crown wear
- Capable of withstanding varying temperature & weather condition without losing the functional properties

Quality

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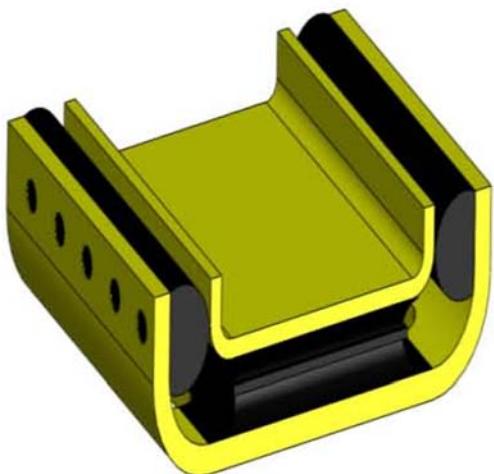
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Standard Size: 251mm X 210 mm
with Buffer Side Pad made of Polyurethane Elastomer

Injection Moulded Composite Elastomeric Pad For High Speed Bogies – Used in high speed, self steering freight car bogies.

- Cushion high frequency transients originating in the wheel rail interface
- Accommodate adequate lateral motion reducing load & wear between flange & rail
- Eliminate adopter crown wear
- Accommodate longitudinal motion without damage
- Independent stiffness in all the direction lateral longitudinal & vertical
- Highly wear resistance polyurethane based side pad to accommodate and to control damaging lateral load during running
- very high reliability

Quality

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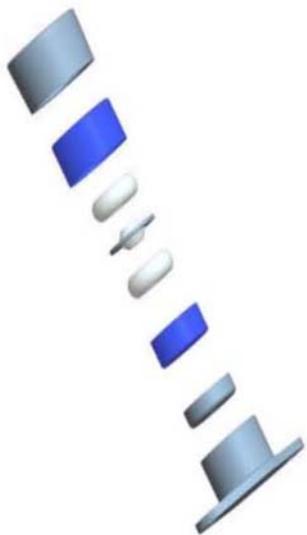
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Size : Forged Housing Base 280 mm, Top Dia 158 mm
Cast Polyurethane Rings O.D 101 mm X I.D 40 mm X THK 33 mm (3 Rings)
Two Partition Steel Plates In Between the Rings.

Constant Contact Side Bearer Pad for Casnub Bogies and BOXN Wagons – Used in bogies in place of conventional Side Bearer pad based on bonded metal and rubber.

- High vertical energy absorption and excellent control of riding
- No bonding, unique design without bonding, only polyurethane based rings in between metal plates hence no chance of bond failure resulting very high service life.
- High load bearing capacity with high reliability
- Reduction in wear of Housing and Bogie Centre Pivot

Quality

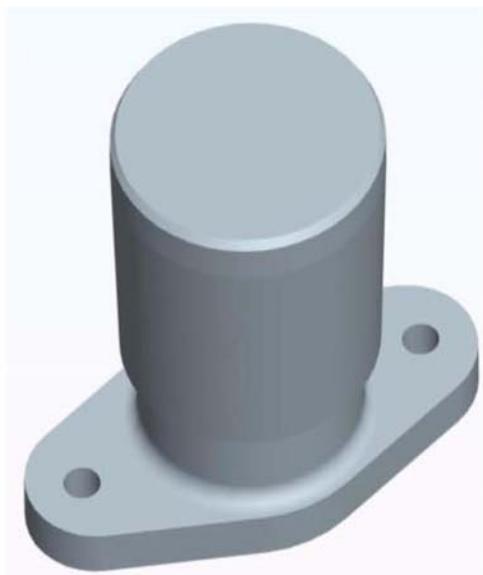
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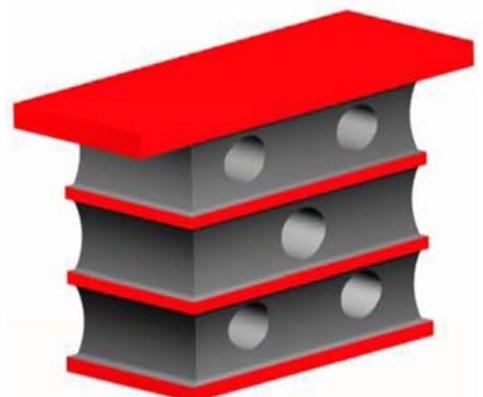


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- Simple design easier installation and zero maintenance
- Sleeves, Ring and Housing can be independently replaced on damaged.
- Excellent energy absorption resulting higher hunting thresholds
- Consistent performance at wide temperature range and varying weather condition
- Highly economical



Standard Size: 250 mm X 100 mm
X 117mm

Metal Bonded Side Bearer Rubber Pad -

Used for Secondary Suspension of Bogies in Freight Car

- Accommodate High Compressive & Shear Loads
- Improved riding characteristics
- Absorbs shocks, vibration
- Capability of withstanding wide temperature variation
- Almost maintenance free

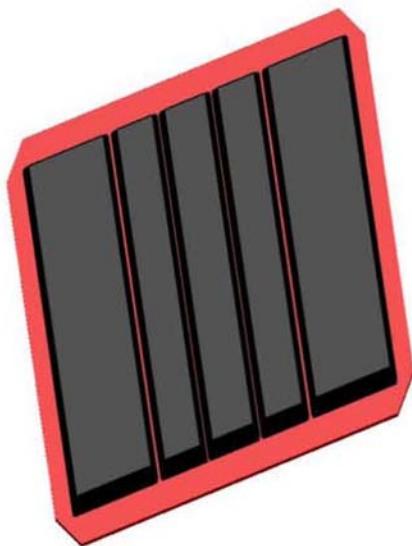
Quality

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Standard Size: 287 mm X 197 mm X 42 mm

Centre Buffer Coupler Draft Gear Rubber Spring for all types of wagon – Used in the draft gear assembly for BG wagons having 625.5 mm 492 mm & 327 mm draft gear pockets.

- Good load deflection characteristics
- Good capacity with control travel
- Easy to installed
- No maintenance
- Ability to stand varying weather condition and wide temperature range without deterioration in functional properties

Quality

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Standard Size: 287 mm X 197 mm X 42 mm

Minimum Capacity: 450 Kgm for a set of two springs

Rubber springs for MG Coupler (MCPH) -
Used in the MG coupler of in place of steel spring

- Efficiently replaces steel spring
- Good capacity under specified deflection
- Easy to install and maintain
- Ability to stand varying weather condition and wide temperature range without deterioration in functional properties.

Quality

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Standard

Size: 286 mm X 181 mm

Miners U.S.A., R.F-8 Rubber Pads for High Tensile Coupler, Types RF-361 and SL-76 for **heavy haulage freight wagons** - Used in high tensile couplers for wagon.

- Protect wagons from coupling shock
- No metal to metal bottoming under deflection with snubbing action
- Excellent load capacity as solid gear height
- Ability to stand varying weather condition and wide temperature range without deterioration in functional properties

Quality

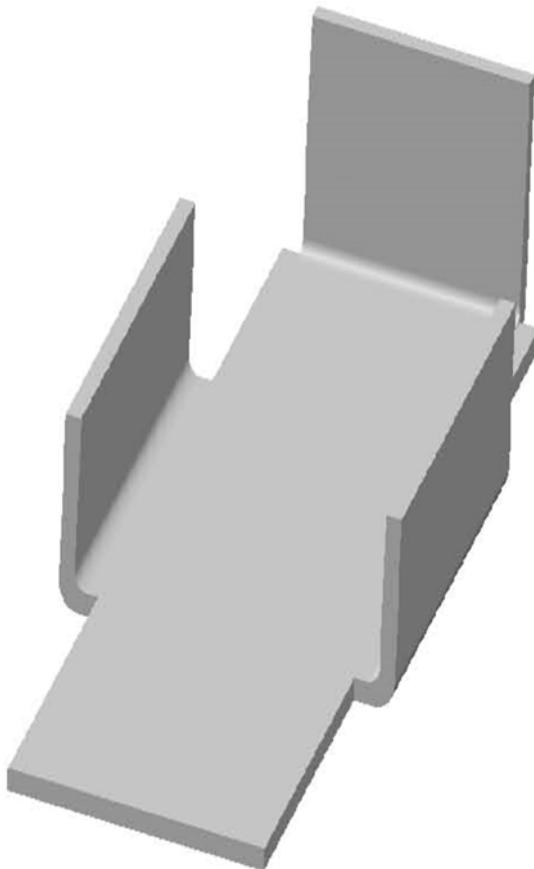
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Thermoplastic polyurethane Liners for BHNF wagons can be efficiently used in place of thermo-set rubber strip

Much higher life and performance than thermo-set rubber strips used

Lighter weight with less thickness and better performance

Excellent friction & wear resistance with adequate flexibility

Excellent energy absorbing capacity with required deflection

Excellent oil resistance property

Easy installation

Zero maintenance

Quality

Price
Workmanship
Durability

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Passenger Car / Carriage Products:



Standard Size: O.D 178 mm
I.D 42 X THK. 112 mm
Capacity: Minimum 1225
Kgm. for a set of 4 springs
Width high damping capacity
more than 50%

High Capacity Side Buffer Rubber pads –
Used in side buffers of ICF types of coaches

- High capacity more than 1225 kgm.
- Very high damping capacity resulting minimum damaged of buffer assembly component
- High protection of coach under frame members
- Ability to withstand high impacts at higher shunting speed
- Unique design no rubber to rubber contact
- Easy installation and zero maintenance

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Torsional stiffness at 8°
Deflection :8000-1000 Kgcm,
Conical stiffness at 8°
Deflection: 8000-1000 Kgcm,

Silent Block for Anchor Link – Used as a rubber bush fitted in ICF of coaches to facilitate adjustment and reduce noise.

- Ability to endure load under oscillating condition and during rotary movements
- No damage rubber due to excessively large rotary movement due to unique design
- Provide noiseless and comfortable riding of coaches
- Easy to install and almost zero maintenance

Quality
Dedibility
Price
Workmanship

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Torsional stiffness at 7^0
Deflection :25000 Kgcm-
40000 Kgcm
Conical stiffness at 7^0
Deflection: 25000-40000
Kgcm,

Silent Block for Centre Pivot – Used in the center pivot of coaches

- Ability to endure load under oscillating condition and during rotary movements
- No damage rubber due to excessively large rotary movement due to unique design
- Provide noiseless and comfortable riding of coaches
- Easy to install and almost zero maintenance

Quality

Price
Workmanship
Reliability

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Silent Block for Roll Link for Fiat Bogies -
Used as a rubber bush fitted in ICF of coaches to facilitate adjustment and reduce noise.

- Ability to endure load under oscillating condition and during rotary movements
- No damage rubber due to excessively large rotary movement due to unique design
- Provide noiseless and comfortable riding of coaches
- Easy to install and almost zero maintenance

Quality

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Elastic Connection for Fiate Bogies - Used in pairs in newly designed coaches at RCF with German technology.

- Elastically guides the wheel set over the axle
- Protect derailment
- Controls the wear of the wheel set at high speed also in the curves
- Provide noiseless and comfortable riding of coaches
- Easy to install and almost zero maintenance

Quality

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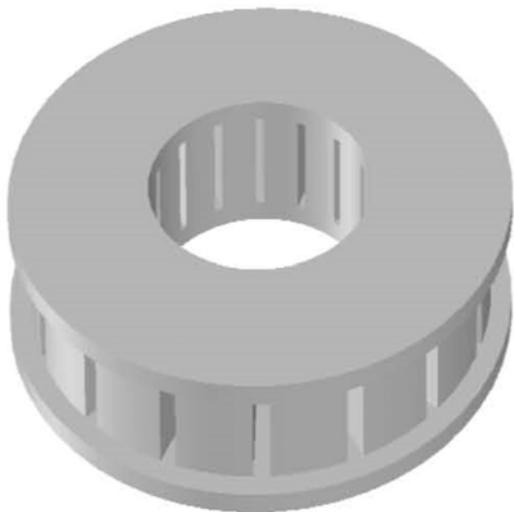
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Upper and Lower Rubber washer based on polyurethane elastomers - Used as primary suspension of ICF types of bogies of the BG/MG coaches and EMU coaches

- High load bearing capacity
- High shock and noise absorption
- Very good resistance to lubrication oils
- Can withstand
- Varying weather condition without loosing the functional performance
- High reliability no maintenance

Quality

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Polyrim for Pully used for conveyor system of M/S NALCO for carrying BAUXITE ores from MINES to their plant in a span of 14.6 K.M over the hills & vally

Polyrim for Pully

Wearing Piece based Thermoplastic polyurethane - Used in Side Bearer of coaches



- Light weight with high load bearing capacity
- Less costly than metal
- Good oil and weather resistance
- High wear and tear and resistance

Quality

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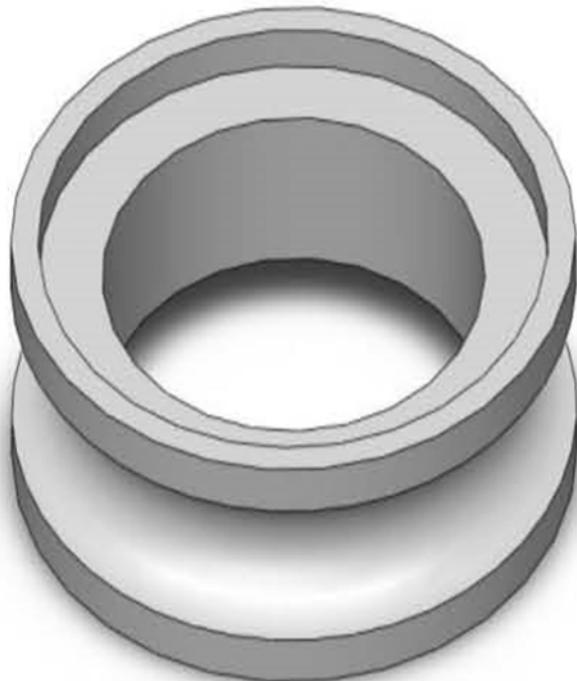
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PU PULLY

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PU PULLY

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Air spring Assembly

- ❖ Air-spring Assembly used for EMU/DMU Coaches & main line / Rajdhani coaches .

The springs are manufactured by TMT – China and assembled at our lab and test as per RSDO Standard. Advantages : Increase in ride comfort irrespective of the load conditions Reduction in structure-borne noise transmission from the bogie to the car body Adjustment of the vehicle height at different loads Stabilization of running dynamics The main purpose of the air spring is to restrict the vibration at a desirable level as per requirements.

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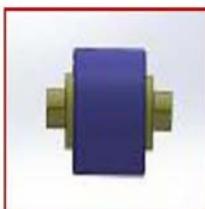
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MOTER SUSPENSION PAD



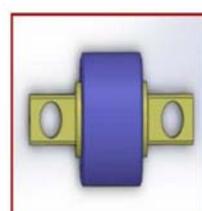
BUSH CONTROL ARM



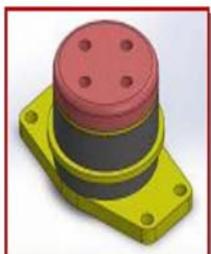
CENTRE PIVOT BUSH



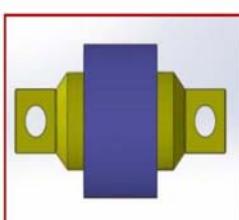
TRACTION ROD BUSH



LATERAL BUMP STOP



MOTER SUSPENSION BUSH



RUBBER PAD PRIMARY SUSPENSION



Quality

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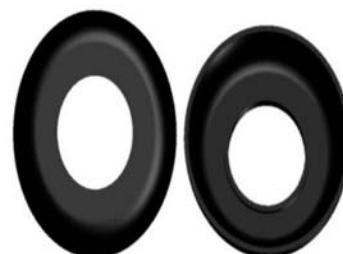
The logo for Indo German Industries (IGI) features the letters 'IGI' in a large, bold, serif font. A globe icon is positioned inside the 'G' and 'I' letters. Above the 'G', the text 'Established 1977' is written in a smaller, italicized font.

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SEALING CAP METRO RAILWAY



RUBBER BUFFER METRO RAILWAY



RUBBER SNUBBER METRO RAILWAY

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