

# योगः कर्मसु कौशलम्

"Excellence at work is 'Yog' - the union of one's consciousness with the supreme."

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#### PRAG INNOVATION AT WORK



#### ► ABOUT US

PRAG GROUP OF INDUSTRIES, HEADQUARTERED IN LUCKNOW, INDIA, IS A LEADING MANUFACTURER OF A WIDE RANGE OF SPECIALTY ENGINEERING PRODUCTS FOR RAILROAD APPLICATIONS.

PRODUCTS RANGE FROM SPECIALTY RUBBER - METAL BONDED PRODUCTS TO A VARIETY OF POLYURETHANE PRODUCTS, A WIDE RANGE OF FILTERS AND FILTRATION SYSTEMS, AIR BRAKE SYSTEMS, BUFFERS AND DRAFT GEARS, AIR DRYERS, RAILWAY HVAC SYSTEMS, WATER COOLERS, AUTOMATIC DOORS SYSTEMS, AND AUXILIARY POWER UNITS.

#### **OUR VISION**

OUR VISION IS TO BE AMONGST THE BEST CUSTOMER-FOCUSED-ENGINEERING-INNOVATION PROVIDERS FOR THE RAILROAD INDUSTRY.

#### **MISSION STATEMENT**

WE ENDEAVOR TO UNDERSTAND OUR CUSTOMERS' REQUIREMENTS SO WELL AS TO BE ABLE TO OFFER COMPREHENSIVE TAILOR-MADE SOLUTIONS ADDRESSING THEIR SPECIFIC PROBLEMS WHILE ENSURING THAT THE SOLUTIONS DELIVERED TO THEM ARE OF THE HIGHEST QUALITY AND RELIABILITY, INCORPORATE THE LATEST TECHNOLOGY, ARE ECO-FRIENDLY, AND ARE OFFERED AT A COMPETITIVE LIFECYCLE COST.

Prag was founded in 1983, when Mr. Rakesh Jain, a B.Com. (Honors) graduate from Sri Ram College of Commerce, set up a workshop for the manufacture of agricultural diesel engine fuel-injection elements and locomotive spare parts under the guidance of his father Mr. S. P. Jain, an acclaimed Tool Room engineer of his time.

This workshop, with a staff of 15 employees and total area of 6,000 sq. ft., marked the humble beginning of a group whose foundation was laid on relentless hard-work, uncompromising

quality, and a vision of constant improvement, innovation, and continual forward movement.

From our modest roots laid down in 1983, Prag gradually branched out into in the fields of Railway Bogie Suspension, Longitudinal Energy Management, Filters & Filtration Systems, Air Brake Systems, HVAC Systems, Engineered Systems and Driver Training Simulators.

Today, the group has several manufacturing facilities with a workforce of over 400 employees

and covered manufacturing area of more than 250,000 Sq. Ft., offering one of the most diversified product portfolios in the industry.

THERE WERE NO BANK
BALANCES, CAPITAL ASSETS,
OR MANAGEMENT TEAMS;
THE ONLY REAL RESOURCES
WERE MY PASSION, VISION,
AND A RESOLVE TO DELIVER
THE VERY BEST.

Rakesh Jain, Founder & Chairman

### **OUR JOURNEY**



Prag Industries, E7 Talkatora Industrial Estate, Lucknow



Prag Polymers, B-1 Talkatora Industrial Estate, Lucknow

#### 1983

Small Precision Engineering Components for agricultural diesel engines

#### 1991

Sugar Milling Equipment, Railroad Filters

#### 2001

Locomotive Centrifugal Lube Oil Cleaners

#### 2004

Plate-Type Lube Oil Coolers

#### 2006

Pneumatic Clutches & Brakes

#### 1987

Rubber and Rubber-Metal Bonded Products

#### 1996

Automotive Mounts

#### 2003

Locomotive Air Dryers

#### 2005

Cast & Thermoplastic Urethane Products

#### 2008

High temp Thermal Insulation Kits



Prag Rubber, B Talkatora, Lucknow





GS Products, Langha Road, Dehradun



Prag Polymers, A40 Talkatora, Lucknow

2010

Bogie Mounted Brake System 2012

Spinflo™ Air Intake Filtration 2014

Feed Valves & Auto Drain Valves 2016

Railway HVAC Systems, Auxiliary Power Units 2018

Onboard Water Purifiers with Cooler, VR Driver Training Simulators

2011

UIC Compliant Polspa Polymer Spring Packs 2013

Locomotive Draft Gears 2015

Pad 'F' for FIAT Bogie Secondary Suspension 2017

Bogie Suspension Kit for Fiat Bogies, Automatic Door Systems



Durable Polymers, Nadarganj Industrial Area, Lucknow

#### **CONTINUAL GROWTH**

With constant improvement, innovation, & continual forward movement as our guiding principles, evolution is a natural and continual process at Prag. Some of the milestones along our journey are listed above.

# THE PRAG PARIVAAR

"WE STRONGLY BELIEVE THAT A COMPANY IS ONLY AS GOOD AS THE PEOPLE BEHIND IT. OUR LOYAL AND DEDICATED WORKFORCE THAT WE BELIEVE IS OUR SINGLE MOST IMPORTANT ASSET, HAS OVER TIME BLENDED INTO A LARGE FAMILY THAT WE CALL THE PRAG PARIVAAR. MEMBERS OF THE PARIVAAR WORK COLLABORATIVELY IN A CONDUCIVE WORK ENVIRONMENT THAT PROMOTES PROFESSIONAL AS WELL AS PERSONAL GROWTH OF EACH AND EVERY MEMBER, HELPING THEM SHOULDER HIGHER RESPONSIBILITIES. IT IS THIS EXCEPTIONAL BONDING OF OUR PEOPLE THAT ENABLES THEM TO REALIZE THEIR FULL POTENTIAL AND OFTEN PERFORM MIRACLES AT WORK."

Gokul Jain, CEO



RAKESH JAIN
Chairman & Managing Director
B. Com. (Hons.)
Sri Ram College of Commerce - 1976



GOKUL JAIN
Chief Executive Officer
M.B.A., Kellogg School of Management, USA - 2013
M.S. (Industrial & Systems Engineering),
The Ohio State University - 2006



SARTHAK JAIN
Chief Operating Officer
Master of Professional Accountancy,
Royal Melbourne Institute of Technology - 2015
BA. LLB (Hons.) Amity Law School - 2011

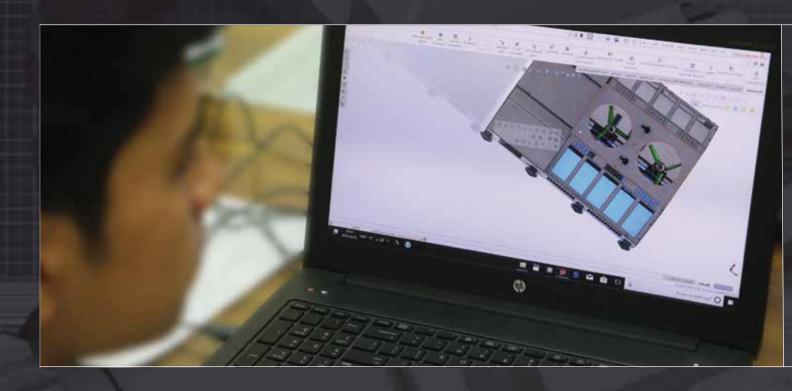


Our diverse team consists of passionate and talented individuals who, between them, have vast experience in the engineering industry. Their strong work ethics, remarkable commitment, and thirst for excellence have been cornerstones of our success.

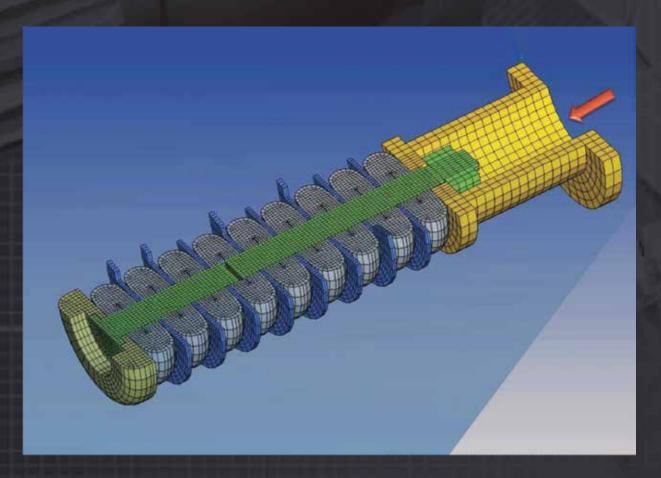
As a technology driven company, we constantly strive to nurture a culture of innovation and learning where our engineering team is constantly updating their skills and know-how through research and close dialog with international technology leaders.

It is only through the engineering knowledge of our people combined with their subject-matter expertise and passion for excellence that Prag is able to offer one of the most diversified and advanced range of specialty engineering products in the industry.



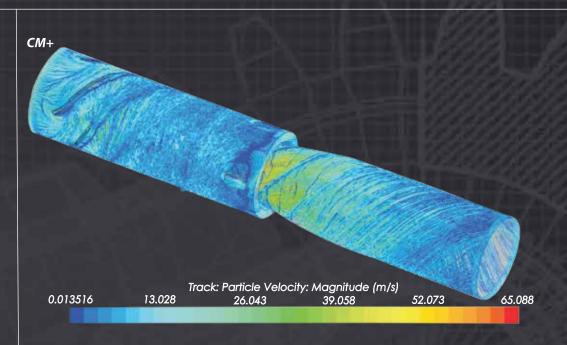


# DESIGN & ENGINEERING



### REDEFINING MOBILITY.®

**SINCE 1983.** 



#### CAD MODELLING & CFD/FEA CAPABILITY

Prag maintains the latest technology and know-how using a combination of in-house research and design capability and leveraging partnerships with global technology leaders.

Development of any new product begins with extensive analysis and simulations on 3D models including FEA, Fatigue, Impact, and CFD analysis on linear as well as non-linear materials. Our in-house Design Center utilizes Siemens NX and Solidworks for 3D Modeling, CAM and electrical schematic generation along-with specialized coil design software for design of bespoke heat exchangers for HVAC. 3D prints of designs are generated, when required, for analysis.

This enables us to generate the most optimum designs that have undergone extensive virtual testing well before actual prototyping and physical product development. For example, when designing a new filtration system, required filtering efficiencies and pressure drops are factored into

the design using CFD analysis at the product conceptualization stage itself. This helps us not only design a high-performance product but also drastically cuts down the time required for new product development.

Besides our in-house engineering capabilities, we also have strategic alliances with global engineering major SAS Ingenieurbüro AG, Switzerland and with reputed international test-houses including TÜV SÜD, Germany.

# MANUFACTURING FACILITIES.



Thermoplastic Urethane Moulding



Polyurethane Casting



Rubber Injection Moulding



**CNC Machining Centres** 

Prag's state-of-the-art manufacturing facilities give us an edge when it comes to providing our customers with world-class engineering products. Machinery and equipment used at Prag come from some of the world's most reputed machinery manufacturers such as Klockner Desma, State Mix, Baulé, Tung Yu, L&T, Windsor, Moog, TAL, Electronica, Toshiba and Haas Automation.

Our automated assembly lines are equipped with fully computerized conveyor systems with poka-yoke and bar code sensors at each work station, ensuring compliance to operating procedures and complete product traceability.

The quality and reliability of products is accurately tested on our in-line computerized electronic test benches and RDSO approved test rigs.



Brake Cylinder Assembly Line



**HVAC Assembly Line** 

# QUALITY CONTROL

OUR PRODUCTS, SOME OF WHICH ARE BACKED BY LIABILITY COVERAGE OF UP TO US\$ 1

MILLION AGAINST ONE SINGLE MANUFACTURING DEFECT, ARE BUILT TO PROVIDE YEARS OF

TROUBLE-FREE PERFORMANCE IN SEVERAL CRITICAL APPLICATIONS AROUND THE WORLD.

Sarthak Jain, COO



6-Axis Dynamic Testing Machine



Coordinate Measuring Machine



EMU CAB AC Test Lab

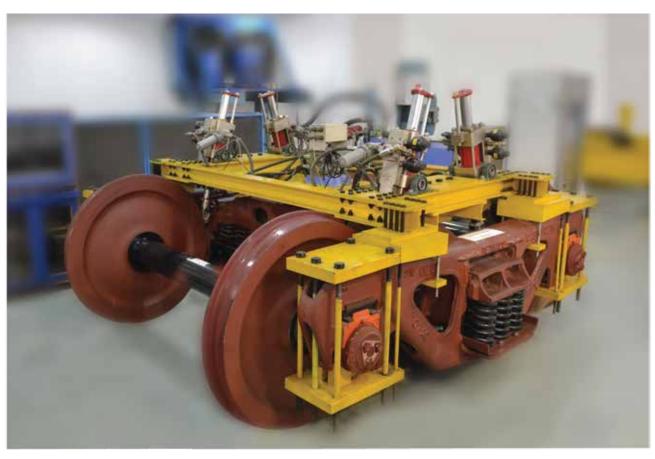


**CNC Vibration Test Machine** 

Repeatedly exceeding customer expectations with products that provide exceptional performance & unfaltering reliability has been the driving force of Prag Group from our very inception. Quality is built into the manufacturing process starting from the raw material inspection stage right up to final product assembly. Standard quality checks are laid down at every step to ensure the highest level of quality and product traceability.

All of our extensive in-house testing facilities are ISO 9001:2008 certified and are equipped with some of the latest test equipment such as:

- Six-Axis Dynamic Endurance Test Equipment with Moog Controls
- Five-Axis Dynamic Brake Testing on CASNUB Bogie
- Coordinate Measuring Machine
- Spectrometers for Metal Testing
- HVAC Cooling Capacity Testing Facility
- Vibration Testing Machine
- Rheometers to Test Rubber Mix
- Computerized Universal Testing Machines
- Fire Retardancy & High Voltage Test Labs
- Environmental, Ozone Test & Low-Temperature Testing
- Computerized Functional & Leakage Test Equipment
- Air Filter Test Rigs designed and calibrated by IIT, Delhi



Multiaxis Dynamic Testing on Bogie

#### **Railroad Bogie Suspension**

Complete Suspension Kit for LHB FIAT Bogies Polyurethane Constant Contact Side Bearing Locomotive Bogie Suspension Components

#### Heating, Ventilation & Air-Conditioning

Tower Type AC Unit for EMU Driver Cab Roof Mounted Package Unit for Trainsets

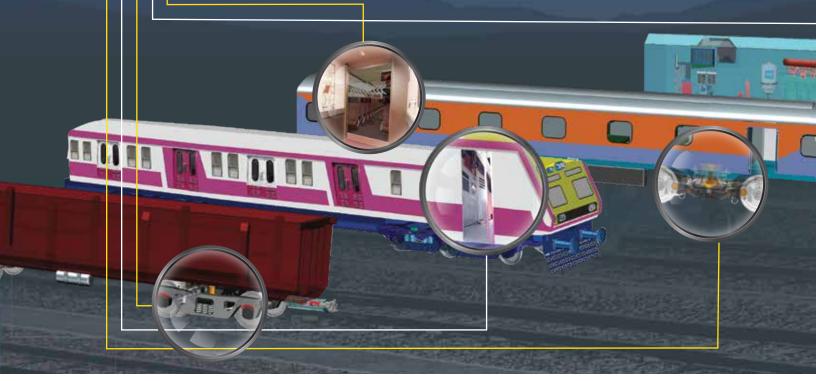
#### **Air Brake & Compressed Air Supply**

Bogie Mounted Air Brake System Heatless Regenerative Air Dryer

Auto-Drain and Feed Valves

#### **Automatic Sliding/Plug Door Systems**

Internal Compartment Doors for LHB Coaches
Automatic Sliding / Plug Doors for Coaches





#### **Auxiliary Power Units**

Schlepsmart® APU for ALCo Locomotives APU for GE India Next-Gen Locomotives

#### **Filters & Filtration Systems**

Railroad Air, Oil & Fuel Filters

Spinflo™ Cyclonic Air Inlet Filtration

Arcticove<sup>™</sup> Onboard Water Purifier with Cooler

#### **Longitudinal Energy Management Systems**

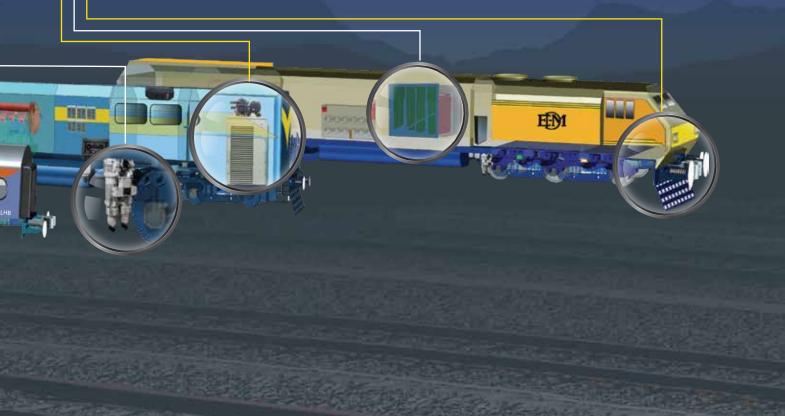
Long Life High Capacity Locomotive Buffers

Polspa<sup>TM</sup> Polymer Springs for Buffer & Draft Gear

Draft Gear for EMD Passenger & Freight Locomotives

Soft Draft Gear with Yoke for ALCo & Electric Locomotives

#### **Ecosafe VR Driver Training Simulators**



# BUFFERS & BUFFER SPRINGS



Polspa<sup>™</sup> Polymer Springs

Buffers Systems used on rail vehicles are continuously subject to enormous amounts of longitudinal forces. While offering adequate protection to the passengers or commodity being transported and to the rail vehicle body, the buffers also need to ensure smooth vehicle running dynamics and maximize passenger comfort.

Prag's 'Fit-and-Forget' High
Performance Polspa™ Polymer
Buffers are designed to deliver
high-energy absorption in

both draw as well as buff modes, minimize longitudinal jerks, and provide maintenance free performance over the entire life of the railcar. Polspa springs provide the most efficient energy absorption system for a given railcar weight and offer a life expectancy that is several times higher than that of either rubber or steel springs. The polymer material allows for a construction that is extremely light-weight yet can withstand extreme loads, impacts and temperature variations.

The polymer spring elements that form the Polspa Spring Packs are made up of a special highly engineered urethane material that has excellent damping characterstics as well as outstanding resistance to tear propagation and exhibits exceptional energy absorption properties.

Polspa Buffers meet and exceed the highest international quality standards including UIC-526-1 and UIC 528 and have successfully qualified extensive testing at UIC approved test labs in Germany.



Buffers fitted with Polspa<sup>™</sup> Polymer Spring

#### **DRAFT GEARS**

Polspa<sup>TM</sup> Polymer Spring Pack, offering years of

fitted with FIAT Bogies. Consisting of two longitudinal jerks and enhance passenger safety and comfort.



Soft Draft Gear DG-70N



Balanced Draft Gear for LHB

#### **BOGIE SUSPENSION**



Complete Bogie Suspension Kit

Metal bonding & Rubber
Metal bonding has been Prag's
forte since the very beginning.
The range of rubber products
offered by us is amongst the
most extensive in the industry
and is used in a multitude of
severe load-bearing and
vibration attenuation
applications.

We manufacture a range of shear pads, compression mounts, spherical bearings, rubber springs, and bushes for use in EMD Locomotive and LHB

Fiat Bogie suspension and are the first Indian manufacturer to be approved for manufacture and supply of the complete FIAT bogie suspension kit used in the LHB Coaches – the mainstay passenger coach of the Indian Railways.

Our energy management rubber products include a range of rubber buffer, draft gear and side bearer springs for use on locomotives, passenger cars and freight wagons.

ELASTA-FLEX® drum clutch elements are manufactured in Technical Collaboration with M/s Oil States Industries, USA. These products are designed for a multitude of severe clutch and brake applications in oilfield, mining, paper-logging and marine industries, as well as other industrial applications.







Vehicle Primary Suspension Air Springs for Secondary Suspension

Elastaflex<sup>®</sup> Oilfield Clutches & Brakes

# FILTERS & FILTRATION SYSTEMS

Prag is a leading manufacturer of Air, Oil, and Fuel filters for railroad applications and has been providing comprehensive filtration solutions for all kinds of rolling stock

applications to the Indian Railways for

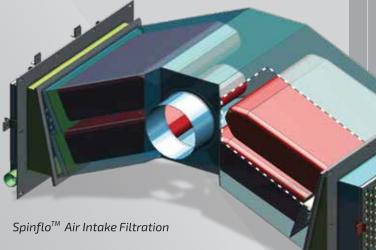
over two decades. Our highly experienced filtration technologists and engineering design team are constantly working to develop and qualify improved filtration products, backed by the

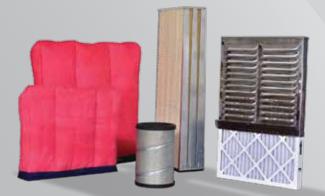
technical support of our

partners, **M/s Clark Filter, USA**[A Parker-Hannifin Group Company
orld's premier producers of railroad

Prag has been the pioneer for development of higher efficiency and longer life filters for the Indian Railways, having extended the filter replacement cycles from 30 days to over 180 days for most filtration products, and

designed to check tough contaminants including soot, rain, snow and sawdust from entering the engine room while offering minimal resistance to the flow of air. It is the only fully indigenous inertial air filtration system for use in railroad applications, removing up to 98% contaminants at the primary filtration stage itself.





Air Filters



Oil & Fuel Filters

# BOGIE MOUNTED BRAKE SYSTEM



Prag Bogie Mounted Brake System is a unique parallelogram design brake system for freight wagons, manufactured under the license of and transfer-of-technology from

#### M/s Knorr-Bremse (Germany).

The brake cylinders are equipped with integrated double-acting slack adjusters, which maintain constant piston stroke, resulting in uniform and efficient braking performance. A Load Sensing Device [EL-60] – UIC approved

design – senses loaded or empty conditions of the freight wagons, and provides a visual indicator showing brake cylinder pressure proportioning, and also sends out pneumatic signals that govern the magnitude of braking forces. This helps protect the wheels by reducing empty-car braking forces that can result in costly wheel skidding, especially under adverse weather or track

This highly reliable design is
AAR approved and is designed
to minimize weight and deliver
optimum braking performance,
which results in uniform shoe
and wheel wear. Over 15,000
freight wagons fitted with Prag
Air Brake System are in active
service in the Indian Railways.





# COMPRESSED AIR SUPPLY EQUIPMENT



Air Dryer PP-AD-01

Prag designs and manufactures a range of equipment used for supply and treatment of compressed air for railroad air brake systems. These include Heatless Air Dryers, Auto-Drain Valves, Feed Valves, Coalescer Filters and Main Reservoir Filters.

One of our most notable innovations is Prag

Aquacheck™ Heatless Regenerative Air Dryer System.

This vibration-resistant, compact and lightweight Air

Dryer is designed to remove moisture and oil aerosols

from compressed air and ensure continuous supply of
clean and dry air to the air brake system. The design

was provided to the Indian Railways on Technology 
Transfer basis in 2003 and has been adopted by them

as a standard on their Diesel & Electric Locomotive

Fleet as well as on EMU & DEMUs.

Prag offers five different Aquacheck™ models catering to a wide range of rolling stock. The system is in active service on over 2000 locomotives. Optional heaters can be provided wherever required for operation in sub-zero ambient conditions.



Feed Valve



Auto Drain Valve



MR Filter Assembly

#### H.V.A.C. SYSTEMS

With hundreds of commuters
often crowded onto train
carriages during peak
hours, passenger
comfort is a major concern
for railway operators around
the world and especially in India.
Sweltering temperatures and
claustrophobic conditions in the summer
months often drive rail travellers to the edge.

Prag's efficient heating, ventilation and air conditioning system (HVAC) are designed to mitigate the misery of passengers by regulating temperature and air quality on crowded trains battling with accumulated body heat.

Our strength lies in innovation, rapid prototyping, and designing of bespoke HVAC solutions with attention to passenger requirements.

Our HVAC System design process begins with a detailed study of the operating environment, car volume, solar loading, peak passenger traffic, and airflow within compartment. Some of our important HVAC innovations include the first introduction of Driver Cab Air Conditioning in Mumbai Suburban EMU Service and Coach HVAC for the prestigious Train-18 project of the Indian Railways.

world leader in clean air solutions – to integrate their air purification and odor removal technology into our railway HVAC solutions.



Passenger Coach RMPU

EMU Driver Cab AC

# HEAT EXCHANGERS & WATER PURIFIERS



Arcticove<sup>™</sup> Water Purifier with Cooler



Plate Type Heat Exchanger

Prag was amongst the first to develop a completely indigenous Plate Heat Exchanger for Locomotive application with the introduction of PHE-01 Plate Type Lube Oil Cooler in 2004.

Designed to offer the most optimum thermodynamic performance, the PHE-01 heat exchanger has been in use on Diesel-Electric Locomotives in India for more than 10 years. Heat Transfer SS plates and Rubber Gaskets used in PHE-01 are manufactured on fully automatic presses in accordance with the highest quality standards. Our team is equipped to develop custom-designed Plate Heat Exchangers as per specific customer requirements.

The Prag-Inge® Water Purifier System, built using NSF Certified Inge® Multi-Bore Ultrafiltration technology with intermittent auto-flushing arrangement, has been in active service in IR Passenger Coaches since 2016.

The Prag-Inge® Water Cooler System – an integrated water purifer-cum- cooler system having a robust vibration resistant and vandal-proof stainless steel construction specifically for on-board use on railway passenger coaches was developed in 2018.

#### AUXILIARY POWER SYSTEMS



Locomotive Auxiliary Power Supply System

With railway tracks in India getting more and more crowded due to increase in railway freight and passenger traffic and corresponding overloading of the existing track infrastructure, a vast number of locomotives remain immobile for long periods of time, often waiting for signal changes.

#### DIESEL ENGINE

GHP 25 RPM 1500 No. of Cylinders 3

Cooling Water Cooled

idle without shutting down the main engine in order to maintain the supply of compressed air to air brakes and to charge

Prag Schlepsmart® APU is a self-contained auxiliary power supply unit consisting of a smart control unit and a small diesel engine coupled to a compressor and an alternator. It automatically shuts down the main locomotive engine if the train is idle with the

installed successfully in IR ALCo
Locomotives as well as on
Next-Generation GE India
Diesel-Electric Locomotives .

manufactured by Prag have been

minutes. The system includes a smart panel that continuously monitors and maintains all critical parameters of the locomotive, including brake pipe pressure and battery charge level, while the main engine is shutdown.



#### **COMPRESSOR**

RPM 1500 No. of LP Cylinders 2 No. of HP Cylinders 1 Discharge Pressure 10.2Kg/čm

#### **ALTERNATOR**

Type 3-Phase Brushless RPM 1500
Output Voltage 72v + 1VDC
Max Current 27 A

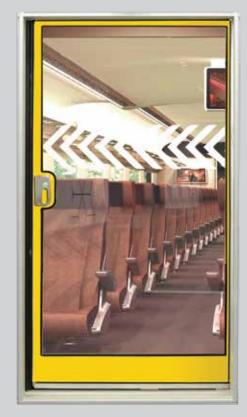
# AUTOMATIC DOOR SYSTEMS

In line with Prag's constant endeavor to contribute towards technological upgradation and modernization of the Indian Railways and enhancement of passenger safety and comfort, in 2017 the group entered into a technological collaboration with **Pars Komponenty, Studénka** - a Czech engineering and technology company with a manufacturing tradition of 115 years in development and production of mass transit components.

Pars has extensive experience in the manufacture of automatic plug doors, electric sliding doors, swinging doors for drivers and inter-vehicle wing doors in addition to tilting and fixed windows for subways and suburban trains, offering high-technology products for the most demanding railway applications and boasts of a client list that includes the likes of Škoda Transportation, Bombardier, Alstom, Siemens, and Stadler Rail.

Prag and Pars have jointly signed a long-term strategic cooperation agreement for development and introduction of automatic sliding and plug doors in the Indian Railways. The product design will be developed by Pars in accordance with IR requirements and the serial production will be realized at Prag's manufacturing facility in India under the technology and guidance of Pars Komponenty, providing the internationally established Pars technology at indigenous manufacturing costs to the final customer.

The first product developed under this collaboration is the lightweight ergonomically designed automatic sliding door system for Train-18 Passenger compartment - a full-glass interior sliding door system for the new state-of-the-art trainset launched by the Indian Railways.



Internal Compartment Automatic Door Systems



Main Entrance Automatic Door Systems

# EVENTS AND EXHIBITIONS.



Innotrans 2014 - Berlin



Innotrans 2016 - Berlin



InnoRail 2014 - Lucknow



InnoRail 2016 - Lucknow

It is our endeavor to continually educate our customers about our product offerings and their benefits and to reinforce our commitment to innovation, quality, and consistency. We ensure active engagement with our customers through regular interactions and participation in well-known industry tradefairs such as IREE [New Delhi], Innorail [Lucknow], IRCE [Chennai] and Innotrans [Berlin].



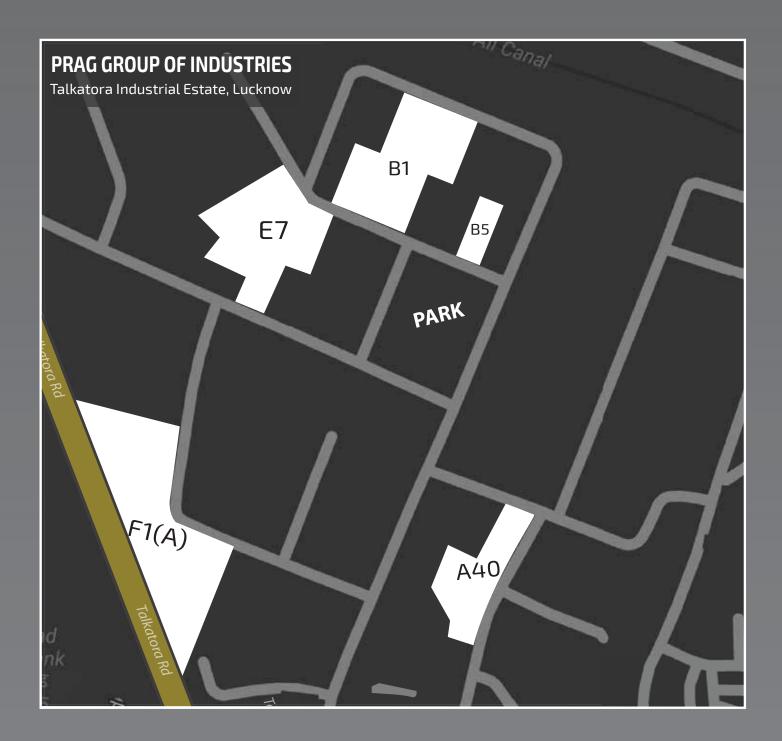
Prag Team along with our Technology Partners @ IRCE 2018



IREE 2017 - New Delhi



IRCE 2018 - Chennai



RUBBER & POLYMER PRODUCTS

AUTOMATIC DOORS H.V.A.C ASSEMBLY

COMPRESSED AIR SUPPLY EQUIPMENT **BOGIE MOUNTED BRAKE SYSTEM** CNC MACHINE SHOP AIR & OIL FILTERS SHEET METAL FABRICATION ALUMINUM CASTING
AUXILIARY POWER UNITS
AIR DRYER & HEAT EXCHANGERS
WATER PURIFIERS CUM COOLERS

SHEET METAL SHOP

F1 (A) FILTER PLANT RUBBER & POLYMER PRODUCTS
PNEUMATIC CLUTCHES & BRAKES **AIR SPRINGS** 



#### HAND IN HAND, ALWAYS.

#### OUR TECHNOLOGY PARTNERS



















#### Lankhorst | Mouldings









With modern engineering and technology aspiring to higher & higher frontiers, we are continuously updating our know-how through partnerships with premier institutions like Indian Institute of Technology and Technical Collaborations with specialist technology companies to maintain our position as leaders in technological change and to provide our customers with hi-quality bespoke engineered products using cutting-edge technology.

BY LEVERAGING OUR RELATIONSHIPS WITH WORLD-RENOWNED TECHNOLOGY **LEADERS** IN ADDITION TO USING **HOMEGROWN TECHNOLOGY** AND IN-HOUSE DESIGN CAPABILITY, WE ARE ABLE TO GENERATE WHAT WE CALL 'GLOBALLY SEGMENTED INNOVATION', WHERE THE FINAL PRODUCT DRAWS ON THE **EXPERTISE MULTIPLE** OF TECHNOLOGY EXPERTS FROM AROUND THE WORLD.

S. C. Agarwal, Director [Technical]





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