

KINECO[®]

WORLD OF COMPOSITES



Landspace to Aerospace



ORGANISATIONAL HIGHLIGHTS

- Over 25 years of performance history.
- Innovation & technology - the prime drivers.
- 33,000 sq.mts of manufacturing space.
- Significant part of production exported to different countries across the globe.
- World class standards of quality - endorsed by growing list of customers.
- Comprehensive expertise from concept to commissioning.

- | | |
|----------------------|---|
| ■ Concept Design | ■ Serial Production |
| ■ Detail Engineering | ■ Installation & Post Installation Services |
| ■ Tooling | |
| ■ Prototyping | |



COMPOSITES
Our Passion



INNOVATION
Our Mission



TECHNOLOGY
Our Focus



WORLD CLASS PRODUCTS
Our Commitment

MARKETS WE SERVE

Aerospace



Defence & Space



Railways



Industrial



Shekhar Sardessai

Executive Vice Chairman
& Managing Director



Vinay Jagtap

President & Executive
Director



Vivekanand Pauskar

Chief Financial Officer



Gourish Dabolkar

Head Of Operations



Rajiv Hubli

Sr. Vice President
Strategy & Growth



Amey Sardessai

Leader
Strategic Initiatives



Manisha Naik

Company Secretary
& Compliance Officer



A. Rajamohan

Head
Research & Development



P K Bagchi

Advisor
Technology & R & D



Nagraj Jantli

Finance Director



Avanish Dwivedi

V.P.-Customer Relationships
& Company Secretary



Swapnil Mane

AVP-Operations

OUR EXPERTISE



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KINECO

KAMAN COMPOSITES

Research, Design & Engineering

- A dedicated research, design & development team
- Highly qualified & experienced structural designers
- Detail engineering & prototyping of complex composite parts

Manufacturing Facilities

Kineco

- Multi-Axis CNC filament winding facilities (up-to 4m dia & 10m length).
- RTM Equipment.
- Curing oven
- Specialized smart resin infusion equipment
- Advanced process monitoring equipment for VARTM

Kineco Kaman

- Autoclaves & Ovens
- Multi-Axis CNC Router.
- Clean Rooms
- Pre-preg Machine
- Dual Robotic UT C-Scan

Kineco Exel

- Five Pultrusion Machines
- CNC Routers

Quality Control & Testing

- Computerized universal testing machine.
- Ultrasonic tester
- Pressure testing with strain gauging.
- Fire, Smoke & Toxicity Equipment.
- Hydrotesting

Process Technology

- CNC Filament Winding
- RTM/LRTM
- Smart Resin Infusion
- VARTM process monitoring Technology
- Vacuum Bagging with Autoclave and Oven Cure.
- Pultrusion
- Resin Film Infusion (RFI)
- Controlled Hand Layup

Materials

Expertise in all types of reinforcement fibers & resin systems including core materials & prepregs

Reinforcements

- Glass Fibres
- Carbon Fibres
- Aramid Fibres

Resin Matrices

- Polyesters
- Epoxies
- Vinyl Esters
- Phenolics

Core Materials

- Aramid & Aluminium Honeycomb
- High Temperature Resistant Foam Core
- Balsa Wood



INFRASTRUCTURE



Kineco Defense & Industrial Unit



Kineco Railway Unit



Kineco Kaman - Aerospace Unit



Kineco Exel - Pultrusion Unit

- Three manufacturing facilities with state-of-the art equipment and machinery.
- 33,000 sq.mts of total facility & Manufacturing space
- Employing Over 800 people.

AEROSPACE

KINECO



KAMAN
COMPOSITES



Kineco Aerospace vertical has been hived off into a Joint Venture with Kaman Aerospace Group, USA.

This facility had earlier been producing complex composite structures for various industries including Aerospace, Defense and Medical Imaging and this is now further enhanced with Kaman's decades of experience in manufacturing Aerospace composites.

- Parts and sub assemblies for defence and civil Aircrafts, Spacecrafts and Space satellites,
- Parts & sub assemblies for Medical Imaging Equipment.



www.kinecokamanindia.com

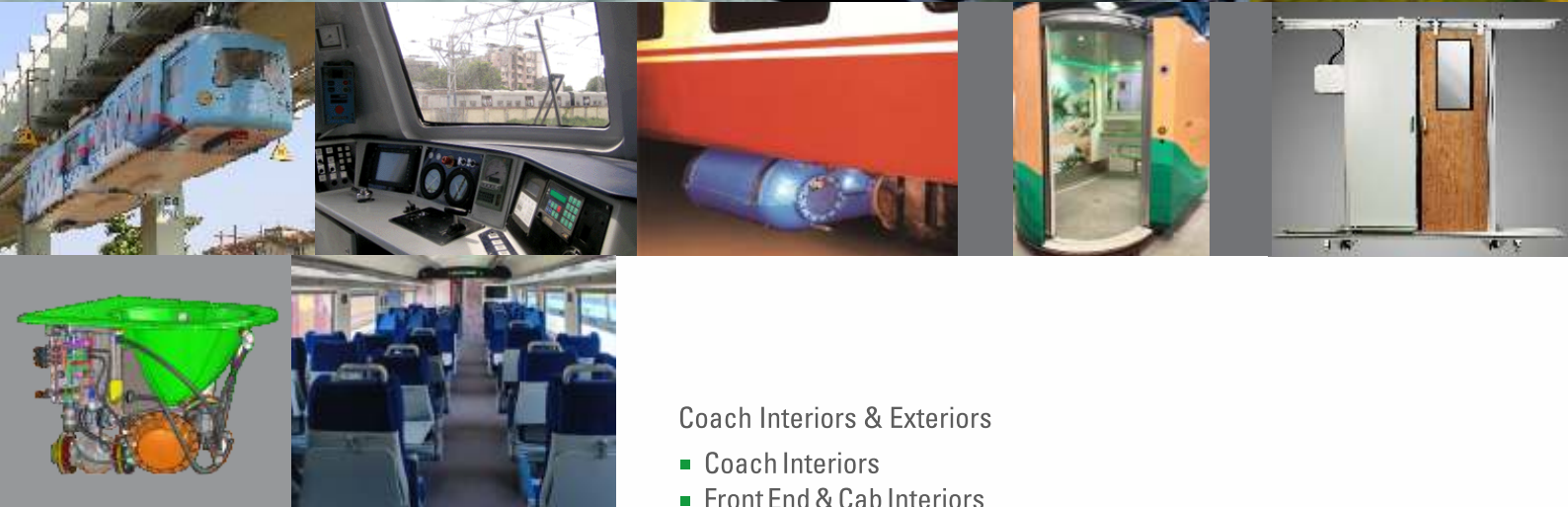
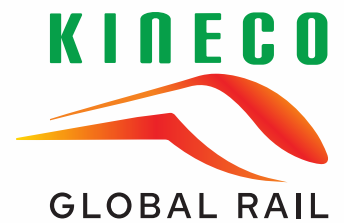
Defence & Space (missiles, marine & others):

- Airframes for missiles
- Sonar domes for warships and submarines
- Carbon reinforced bridge structures
- Light weight gun barrels and bomb shells
- Radio Transparent radomes for military applications
- Rocket Motor and Igniter cases for satellite launch vehicles
- Submarine Casing Panels
- Hulls for tactical Diving Vehicles



DEFENCE & SPACE

RAILWAYS



Coach Interiors & Exteriors

- Coach Interiors
- Front End & Cab Interiors
- Hard Seating System
- Toilet Modules
- Turnkey Interiors for New Coaches & Refurbishment.
- Vacuum Pressure Systems
- Single Leaf & Double Leaf Automatic Sliding Door Systems

INDUSTRIAL

Industrial:

- Pressure vessels for water filtration.
- Chemical process equipment & storage systems
- Components for power plants
- Components for Medical equipments
- Components for Automotives



PULTRUSION

- Customized Pultrusion Products
- Radomes For Mobile Towers
- Smart Utility GFRP Pole
- Spar Caps
- Structural Profiles



MILESTONE

Kineco begins commercial operations

1995



Kineco builds unique FRP shelters for Indian Troops in the Northern Himalayas (Post Kargil)

1999

2002

Kineco develops the indigenous technology of 5 axis filament winding with funding from Ministry of Science & Technology

2003



2004

Kineco establishes its Advanced Composites Division (ACD)

2006

Kineco ACD selected as manufacturer of body panels for the A1 Grand Prix Formula racing cars

2007



Kineco wins the prestigious & global "JEC Innovation Award" for the development of underslung water tanks for AC coaches of the Indian Railways

2008

2010

Kineco bags its first Export contract for 2 Million dollar from U.S. Water Treatment Company

Kineco, in association with IIT Bombay and TIFAC constructs the world's first Sky Bus metro made entirely from composites



Kineco acquires a contract from an European major for supply of complete racing car chassis and bodies. Kineco achieves AS9100 accreditation which is a prerequisite to enter the mainstream aerospace market

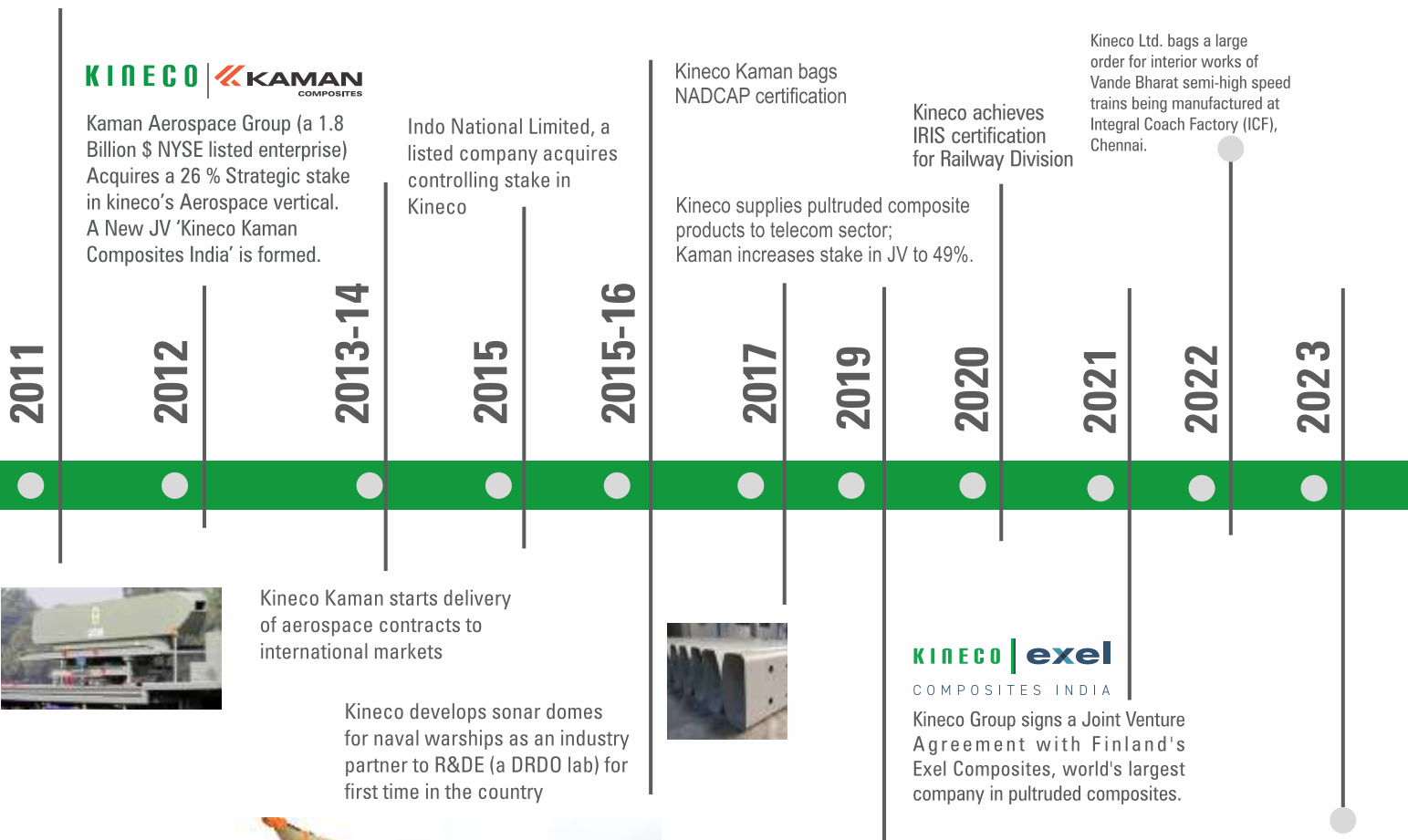


Kineco develops a Dorsal Unit for Airborne Early Warning & Control Systems (AEWACS). Displayed at Republic Day parade as one of the key success in indigenous development



Launch of 'Kineco Global Rail'

Kineco Ltd. bags a large order for interior works of Vande Bharat semi-high speed trains being manufactured at Integral Coach Factory (ICF), Chennai.



Kineco Kaman starts delivery of aerospace contracts to international markets



Kineco develops sonar domes for naval warships as an industry partner to R&DE (a DRDO lab) for first time in the country



Kineco develops composite carbon bridge for military application for first time in India

Kineco bags contract from R&DE (DRDO lab) for Development of composite radome segments for Airborne Early Warning & Control Systems (AEWACS)



Kineco Kaman supplied 4 flight critical components for the LVM3-M4, launch vehicle used for the Chandrayaan-3

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