Wabtec CORPORATION

Ensuring your safety through technology

Suspension & vibration control

Your safety and confort worldwide

PROVIDING SUSPENSION SYSTEMS FOR ALL KIND OF ROLLING STOCK

- High-speed
- Commuter (regional/intercity)
- Urban (metro, tram, low-floor)
- Locomotives
- Freight

MTC COMPANY PROFILE

MTC is specialized in the design and manufacture of rubber-metal suspension systems for the railway sector.

MTC is part of Wabtec Corporation, and currently has production plants in Spain (HQ), China, India and US.

Leading company in this sector, MTC works with the main manufacturers of rolling stock. Also has earned the trust of Operators for the supply of spare parts for maintenance of their projects.

MTC main products are primary and secondary suspensions and different subsystems for bogies.

MTC strenghts

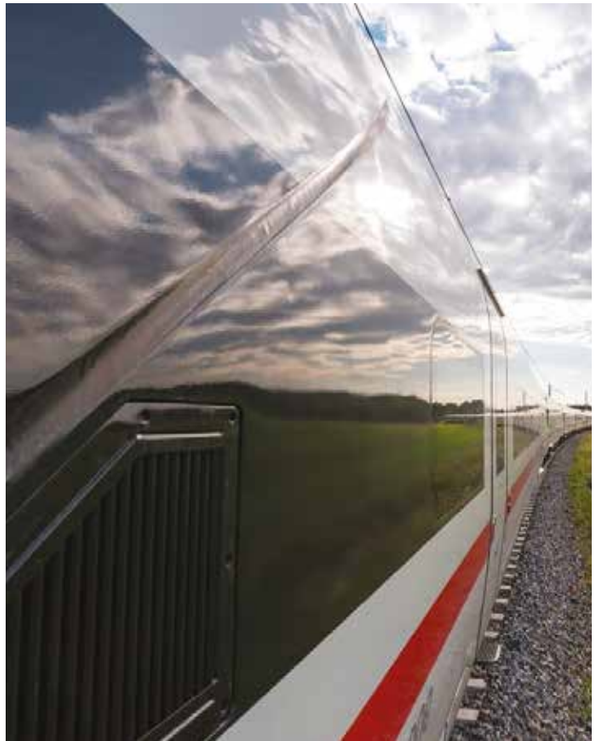
RELIABILITY
TECHNOLOGY
COMFORT
EASY MAINTENANCE
SAFETY
LIFE CYCLE
ENVIRONMENT CARE
INNOVATION

+100
NEW DEVELOPMENTS PER YEAR

MTC ADDED VALUE

MTC has developed special designs to adapt to the needs of its customers for special applications:

- Rubber compliant with EN45545 fire and smoke standard
- Extend part life (increase maintenance periods).
- Suspension systems for extreme environments :
  - Low temperatures -50ºC
  - High temperatures +80ºC
  - Sand impact



Designing together the suspensions of the future

YOUR SUSPENSION ENGINEERING DEPARTMENT

MTC supports on the development phase of your bogie design, sharing its engineering department experience.
From complex systems calculations (FEA) to re-engineering of existing parts.

Design and Engineering

SPECIALIZATION IN RAILWAY IS OUR COMPETITIVE ADVANTAGE.

MTC can perform complete bogie suspension system calculations, supporting our customers, rolling stock constructors and operators, in the definition of the best suspension solutions.

- **Development based on:**
  FEM by MARC/MATLAB tools
  Wolher curve analyse
  Damage calculations
  Field experience

- **Test facilities:**
  Fatigue
  Creep tests
  Climathic chamber
  Mechanical characteristics

- **Capability to test your fleet: design improvement**

MTC COMPETENCES

- RUBBER FORMULATIONS
- PATENTED SOLUTIONS
- RAMS CALCULATIONS
- PROCESS CAPABILITIES
- FULL SERVICE
- REVERSE ENGINEERING
- ASSEMBLY ENGINEERING

Primary suspensions

All kind of primary suspension designs

- Conical spring
- Guiding bush
- Chevron
- Guiding link
- Hydrobush

RUBBER COMPLIANT WITH EN45545

Secondary suspensions

Different secondary suspension applications:

- Air spring systems
- Emergency springs
- Bushings
- Buffers
- Layer springs

Other railway applications

MOTOR AND GEARBOX

SUBSYSTEMS

RESILIENT WHEELS

COUPLER PARTS

BRAKE SYSTEMS

MTC Spain
Polígono Erratzu 253
E-20130 Urnieta, Gipuzkoa – Spain

MTC China
Zhongfeng Street SND, No.22
215129 Suzhou – China

MTC India
No. 184, 3rd Phase,
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