



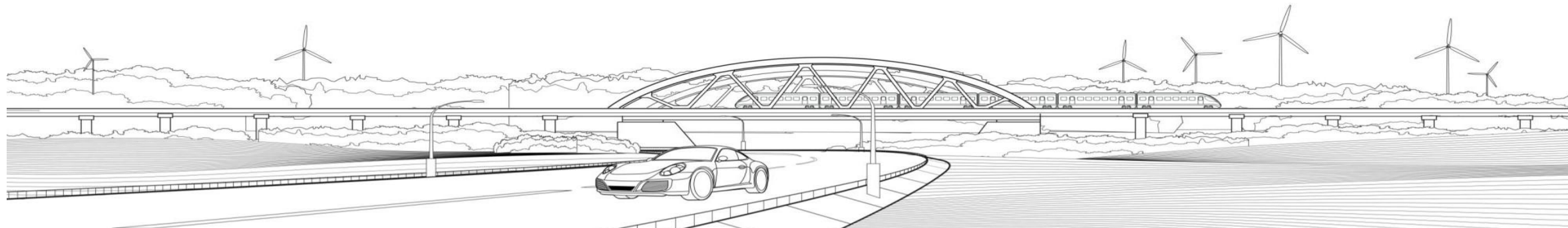
Future Leader

in Research and Engineering Application of Polymer

Zhuzhou Times New Material Technology Co., Ltd.



CONTENTS



3 Application in Locomotive

2 Key Advantages in Railway

1 Brief Introduction of TMT



Brief Introduction of TMT

About TMT

Milestone

Global Layout

Business Performance

Business Scope



First-Tier Subsidiary of CRRC

- Found in 1984
- Renamed as 'TMT' in 2001
- Listed in Shanghai Stock Exchange in 2002

Stock code 600458



- TMT is specialized in polymer materials research and engineering applications. The products are extended to various fields, such as rubber, plastics, composite materials, functional materials, etc.

- TMT



Brief Introduction of TM T

About TMT

Milestone

Global Layout

Business Performance

Business Scope

1984

The rubber lab of
Railway Ministry



2002

Listed in Shanghai



2007

Enter automotive
industry



2014

Acquisition of BOGE



2022

Honor from China State Council as
science reform demonstration
enterprise



1994

TM T Plastic Products
Business Unit was
established



2006

Enter wind power
industry



2011

Acquisition of Delkor



2021

Promoted to a Tier 1
subsidiary of CRRC





Brief Introduction of TM T

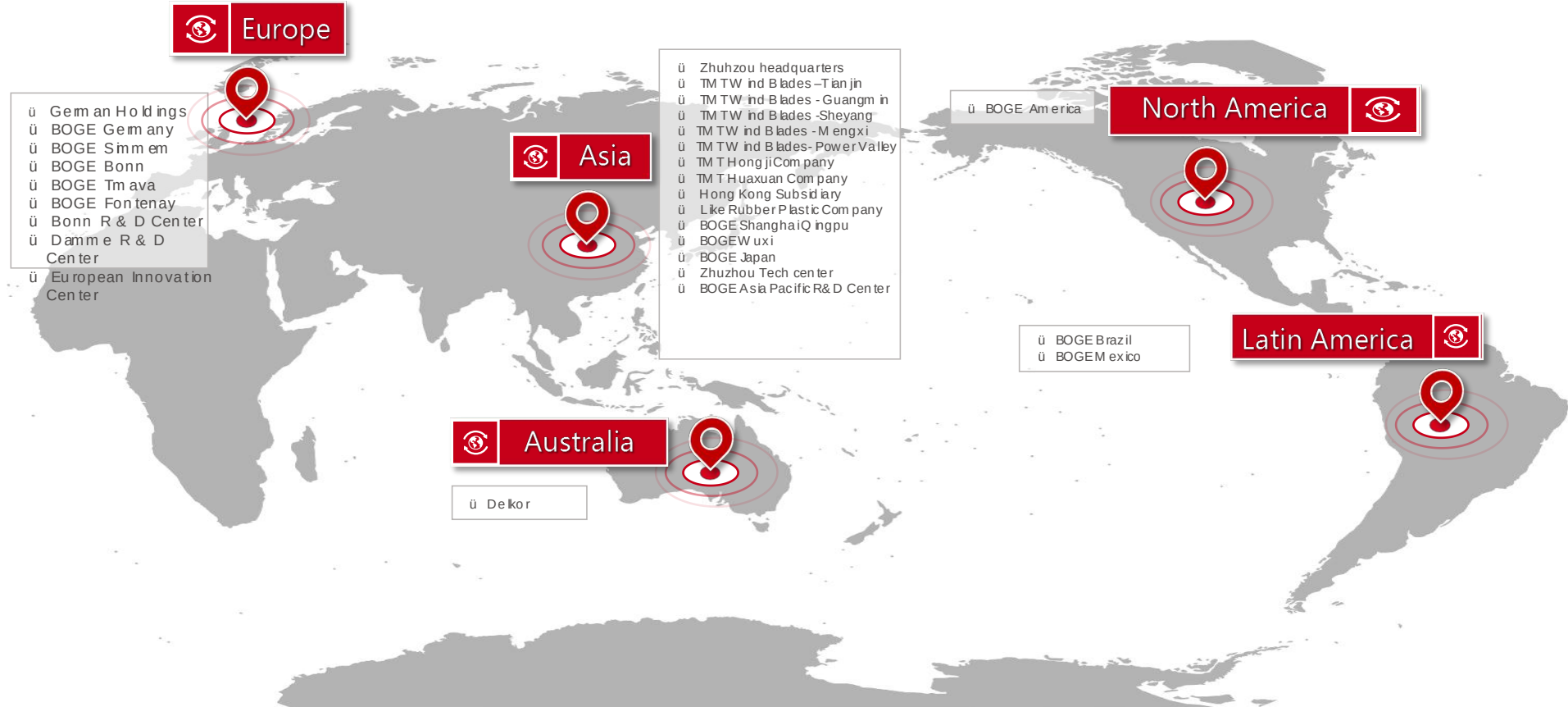
About TMT

Milestone

Global Layout

Business Performance

Business Scope



TM T has subsidiaries and offices in 10 countries around the world, including Germany, France, Slovakia, Mexico, Australia, Brazil and other countries, with a comprehensive internationalization index of over 40%.

10

40%



Brief Introduction of TMT

About TMT

Milestone

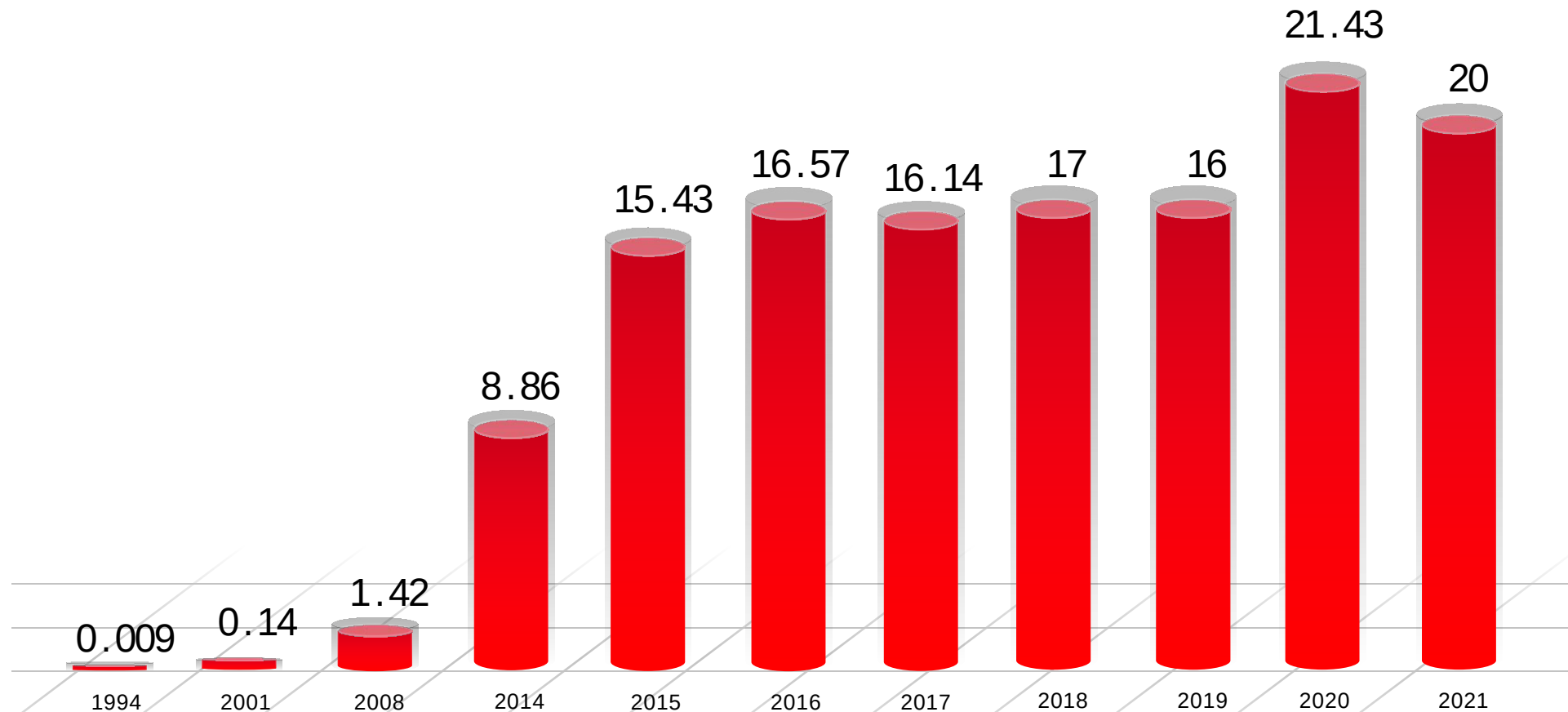
Global Layout

Business Performance

Business Scope

Yearly Sales

Unit: EURO 100 million





Brief Introduction of TMT

About TMT

Milestone

Global Layout

Business Performance

Business Scope

Five Pillar Industry Platforms

Cross-industry application, international operation

More than 30 production and logistics bases worldwide

The world's leading scale, complete varieties, first-class technology

5 , , 30 .

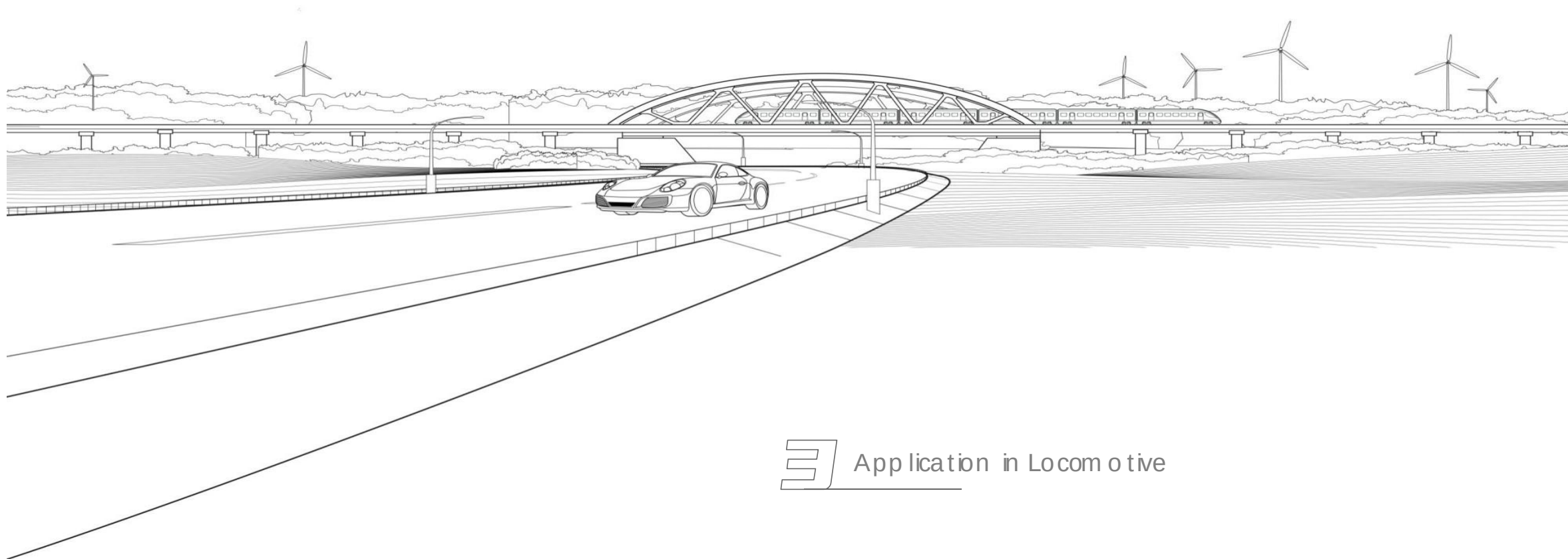
A leader in Polymer
Material Industry



Rail transport	0.28 ⁺	Billion EURO
Industry & Engineering	0.22 ⁺	Billion EURO
Wind power	0.86 ⁺	Billion EURO
Automotive	0.79 ⁺	Billion EURO
New material others	0.43 ⁺	Billion EURO



CONTENTS



3 Application in Locomotive

2 Key Advantages in Railway

1 Brief Introduction of TMT



Key Advantages in Railway

R&D

Test Ability

Quality System

Smart Manufacture

Abundant Experience

Major Product

TM T's R&D center were award :
TM T's R&D center :

National technology innovation platform : 5+

Provincial technology innovation platform : 2+

Company Research Center : 5+



Institute of Materials Technology and Engineering (Zhuzhou)



Asia Pacific R&D Center (Wuxi)



Dahmen R&D Center (Germany)



Bonn R&D Center (Germany)





Key Advantages in Railway

R&D

Test Ability

Quality System

Smart Manufacture

Abundant Experience

Major Product



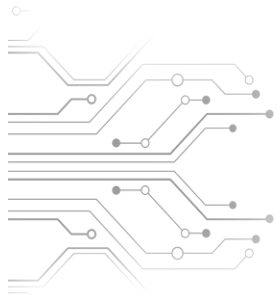
CMA
Accredited
Laboratory

ilac-MRA
CNAS accredited
Laboratory

The truck product filing
laboratory designated by
China Railway Inspection and
Certification Center (CRCC)

CCS&DNV GL
Accredited Laboratory

National Testing and
Experiment Center





Key Advantages in Railway

R&D

Test Ability

Quality System

Smart Manufacture

Abundant Experience

Major Product

TM T has passed ISO 9001, ISO /TS22163, TS16949, CRCC railway products, French railway, German Railway, Belgian Railway, Amtrak and other certifications.

TM T ISO 9001, ISO /TS22163, TS16949, CRCC





Key Advantages in Railway

R&D

Test Ability

Quality System

Smart Manufacturing

Abundant Experience

Major Product

TM T railway factory is a **national level of "green factory"** with an annual production capacity of 40,000 sets of air springs and 7 million pieces of rubber and metal parts.





Key Advantages in Railway

R&D

Test Ability

Quality System

Smart Manufacture

Abundant Experience

Major Product



Wide coverage of OEMs

OEMs

Experience in worldwide

Experience in platform projects

Comprehensive product types



Key Advantages in Railway

R&D

Test Ability

Quality System

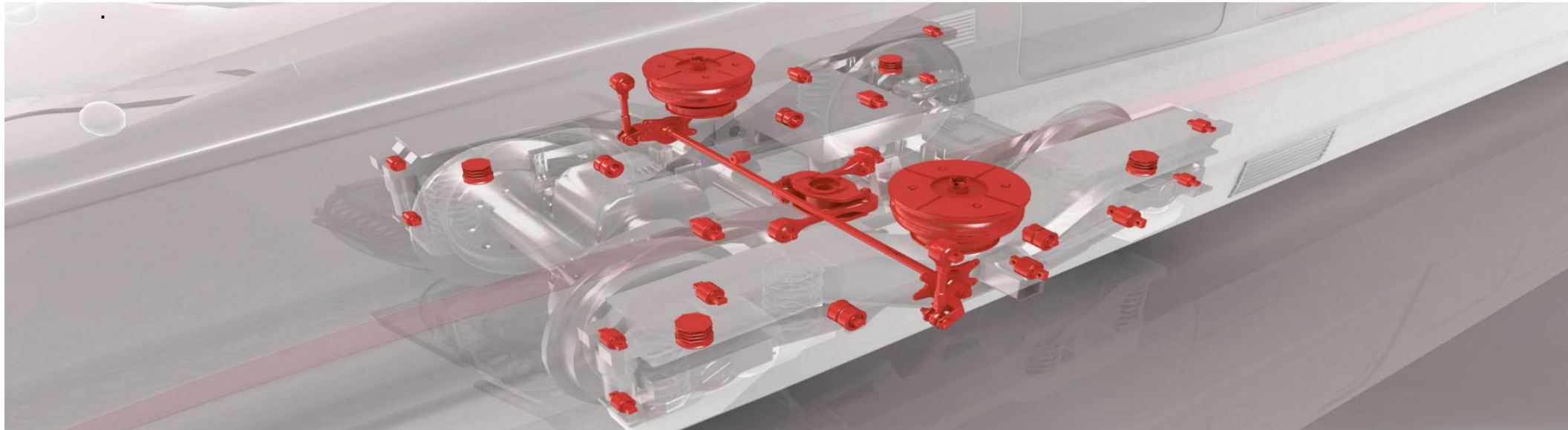
Smart Manufacture

Abundant Experience

Major Product

TM T is the global industry **standard setter** in the field of rolling stock vibration and noise reduction, and the only **one-stop system solution provider** combine rolling stock, tract and bridge vibration control.

TM T

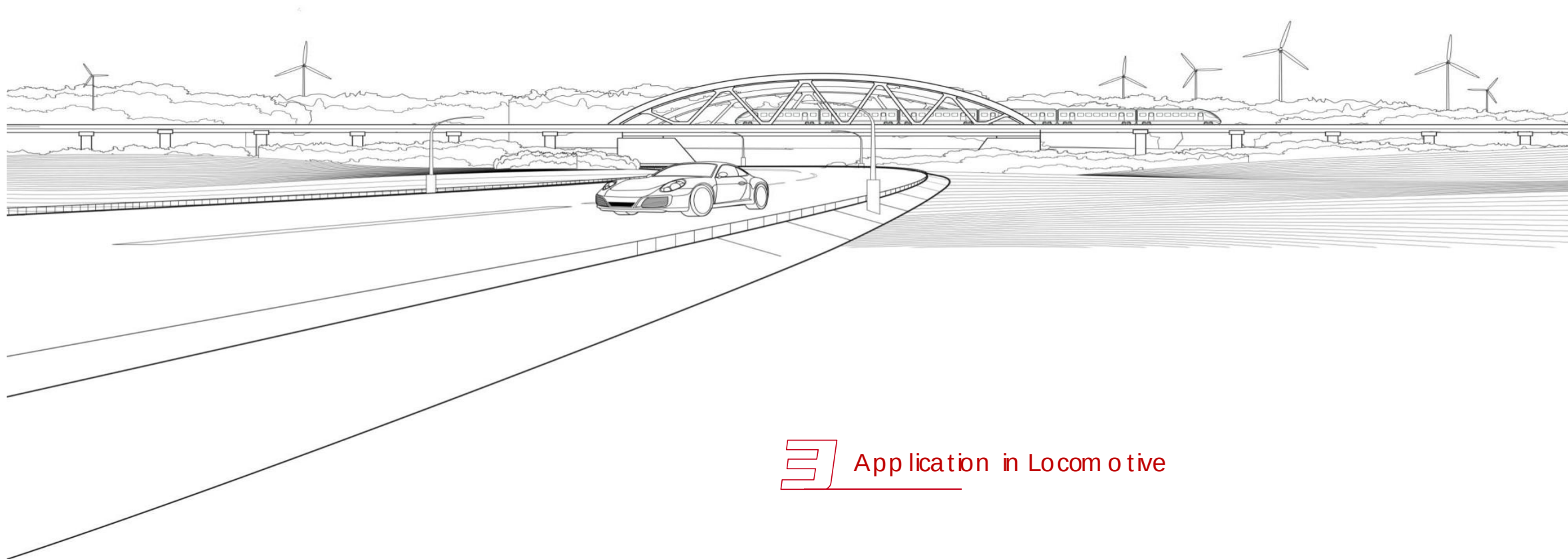


Anti-vibration and noise-reduction technology for vehicle

Light weight technology for car body



CONTENTS



3 Application in Locomotive

2 Key Advantages in Railway

1 Brief Introduction of TMT



Application in Locomotive

TM T's locomotive suspension products are widely operated in more than 30 countries, with a marketing share of more than 80% in CRRC, Wabtec (GET), EMD, Alstom and SIEMENS' locomotives.

TM T CRRC, (GET), EMD, , 80%

30





Application in Locomotive

CRRC Application

Overseas Customer

TMT Self-business Component

TMT Outsourcing Component





Application in Locomotive

CRRC Application

Overseas Customer

TMT Self-business Component

TMT Outsourcing Component





Application in Locomotive

CRRC Application

Overseas Customer

TMT Self-business Component

TMT Outsourcing Component





Application in Locomotive

CRRC Application

Overseas Customer

TMT Self-business Component

TMT Outsourcing Component





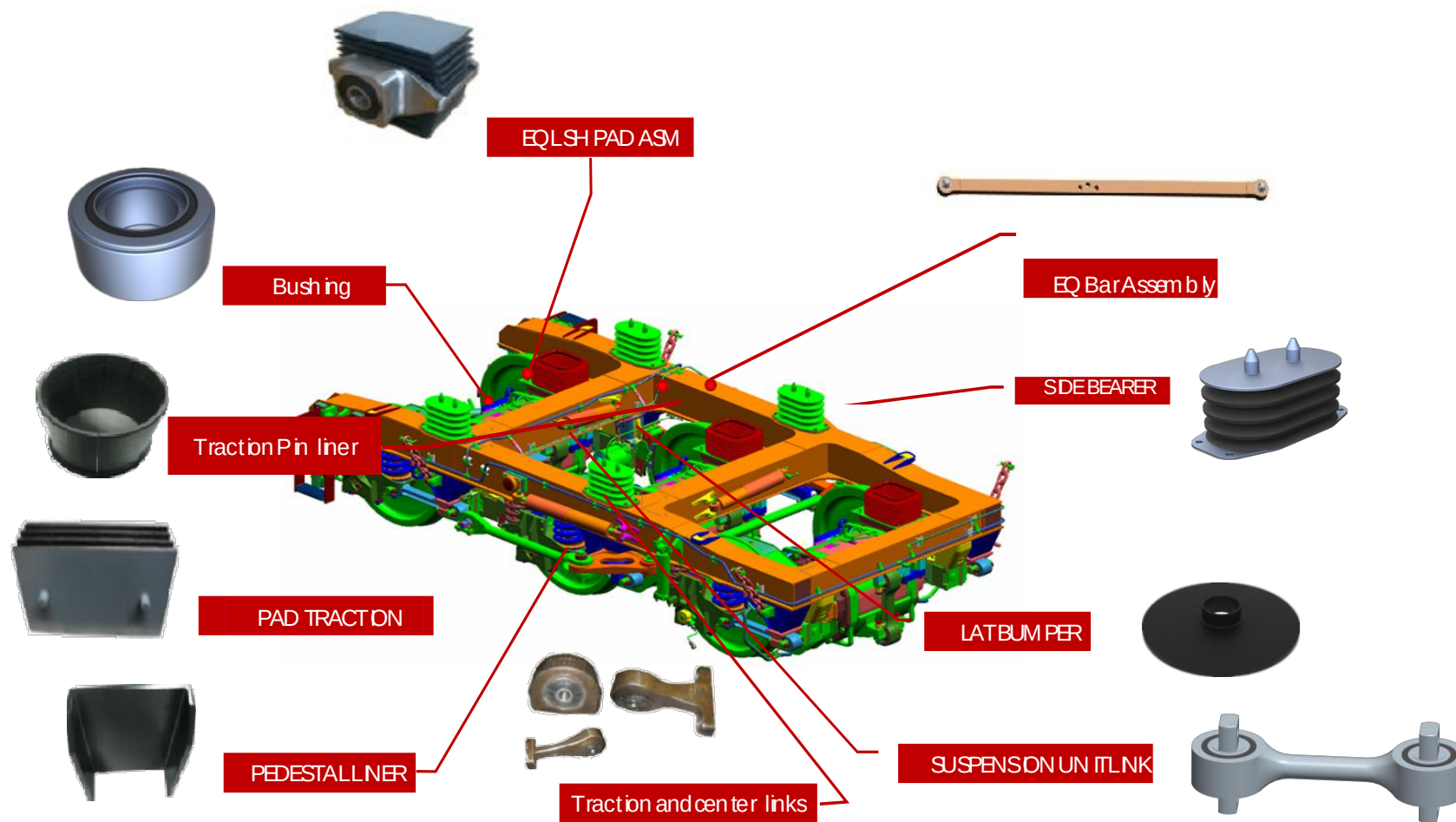
Application in Locomotive

CRRC Application

Overseas Customer

TMT Self-business Component

TMT Outsourcing Component



One-stop solution
for bogie parts
for

Part Numbers of Supply:

200+

Delivered Qty/Pieces per year:

100,000+



Application in Locomotive

CRRC Application

Overseas Customer

TMT Self-business Component

TMT Outsourcing Component



Support
from TMT



High standard
quality control

Cost-effective
price select

Entire process
project manage



Application in Locomotive

CRRC Application

Overseas Customer

TMT Self-business Component

TMT Outsourcing Component

ITEM	Q ty (Pcs)
GearCase	100000+
Shutter	20000+
M ica Tape	1000000+
Lock and Latch	50000+
GBT Cover	150000+
Light	10000+
Mirror	10000+
Isolator	100000+
WaterSeal	5000+
Brake Shoes	20000+
Others	100000+

Annual supply amount:

10 m illion+ Euro

138+

Delivered to country:

20+

South Africa , Indonesia , Pakistan , Egypt ,
Canada , United States , Australia , etc .

:

20+

， ， ， ，
， ， ， ，



Thanks!

Zhuzhou Times New Material Technology Co., Ltd.