

PURAN RAILWAY FRICTION SOLUTIONS



Puran Group 2023 München

PURAN GROUP AT A GLANCE

Friction solutions for Highspeed/Long distance trains, in mass transit and in freight applications are provided to the global customer base, from Heze, China and Munich, Germany

As independent group Puran is helping its customers to improve safety and productivity in the daily operations of the trains

Yearly sales of 30 m Euro , main focus sintered solutions, confirm the trust of customers

380km/h



Sintered brake pads/Organic blocks

80-200km/h



Organic brake pads

100km/h



Blocks and pads

Asia



CRH1
CRH3
CRH5



China Metro
Locomotives
EMU and DMU



Freight cars and
locomotives

Europe

ETR family,
various regional
trains other
platforms

Vienna X wagon
OEBB RIC coaches
Metros various
IC 2000

Disc brake freight
application, K &
LL blocks

Partners

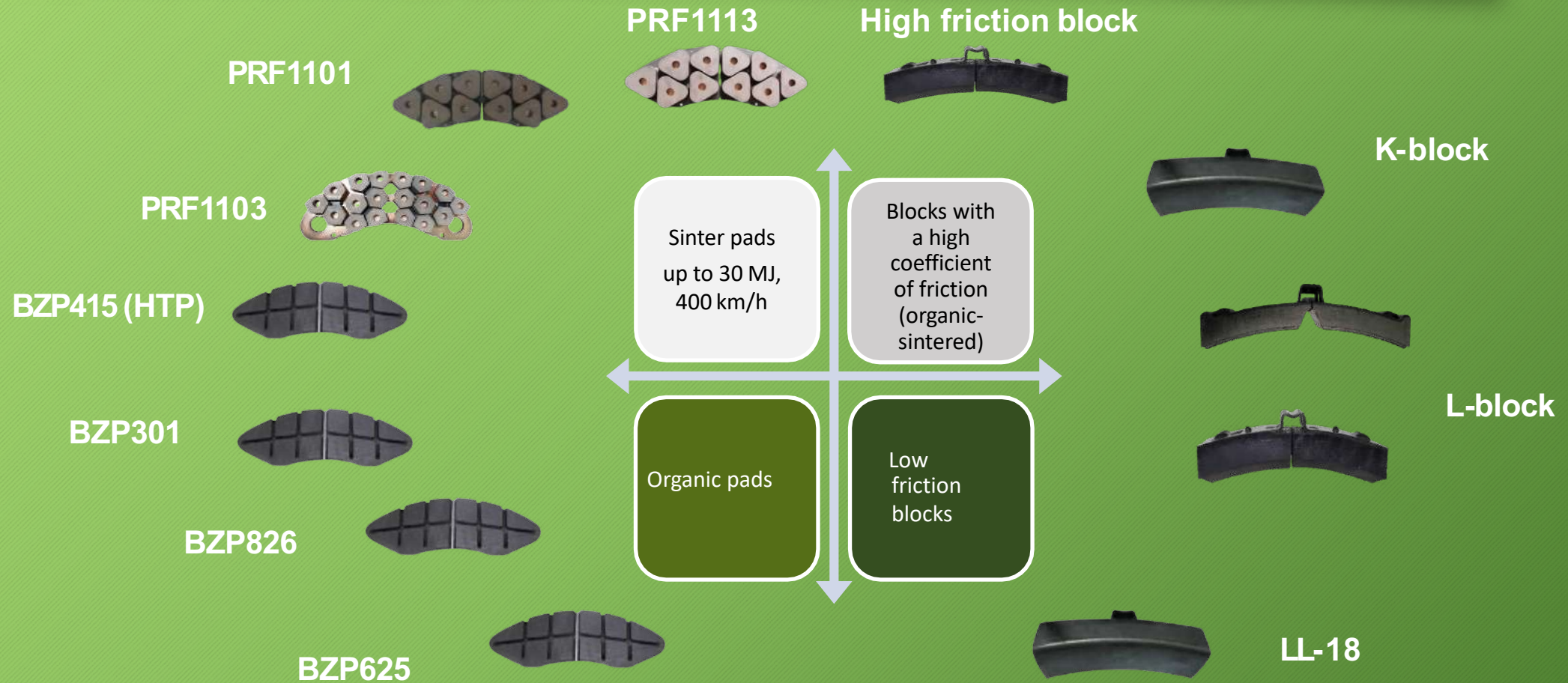
ALSTOM
SIEMENS
BOMBARDIER



SIEMENS



Puran offers the full-range in the pad and block business for rail vehicles

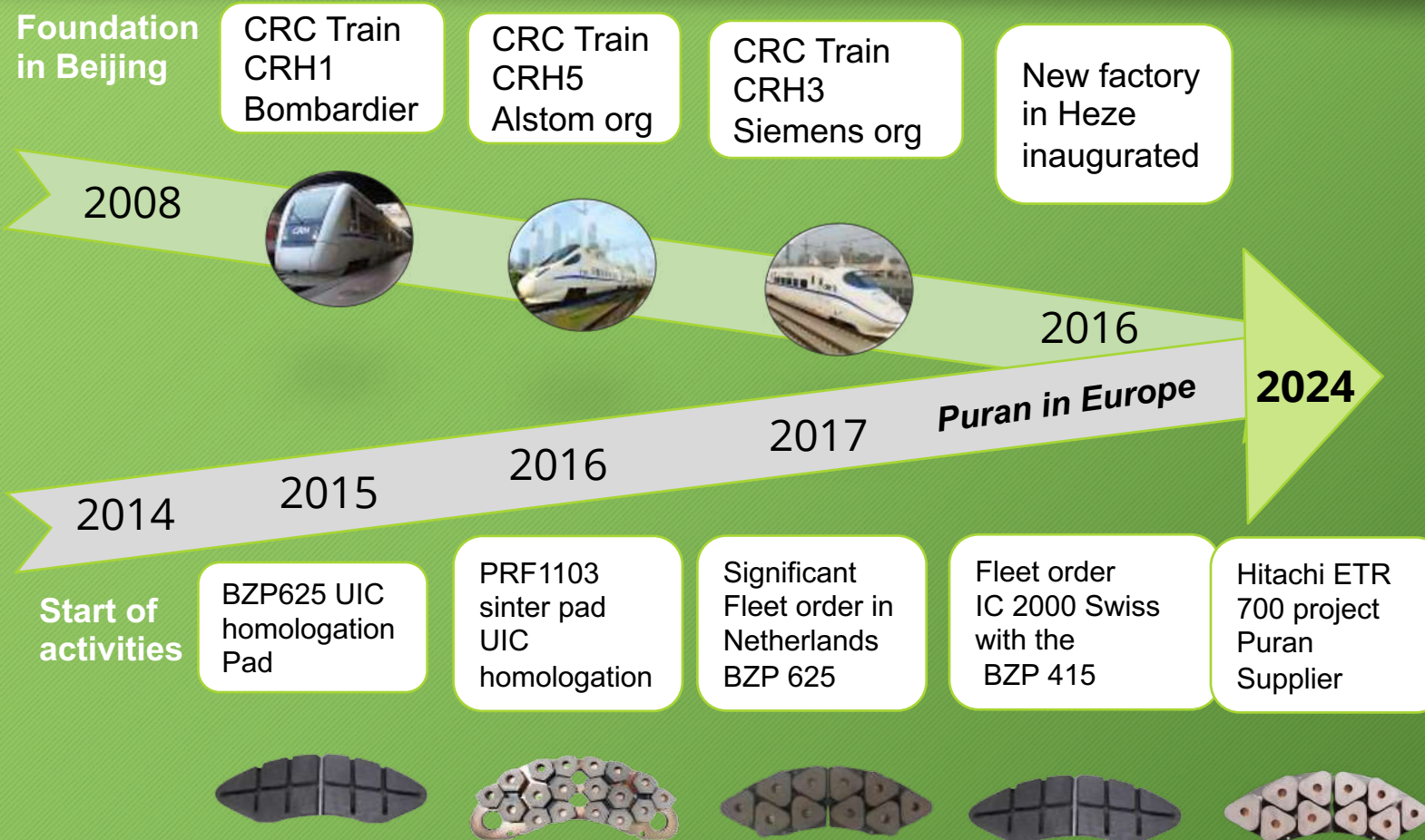


HISTORY OF PURAN

- 2008** Beijing Puran Railway Braking High-Tech Co. Ltd. was founded as a manufacture specialized in organic and sintered friction products.
- Since 2008** Engineering team recruited with experience in various friction applications from Railway up to Airplane
- 2012** China rail homologation of sintered pads and factory audit by UIC
- 2015** First UIC homologated, Brake pad BZP625, various others as the PRF 1101 and CRH5 followed
- 2016** New plant in Heze, 40.000 m² inaugurated, ongoing deliveries to CRRC. On trains of Alstom, Siemens and Bombardier
- 2018** Puran Deutschland GmbH was founded in Munich, Germany for the European market
- 2023** Longterm Fleet order for the IC2000 high speed trains in Switzerland (200 km/h)
- 2024** Hitachi fleet order with sintered pads for ETR 700 fleet (270 km/h)



PURAN SUCCESSFUL PROGRESS IN RAILWAY FRICTION



STATE OF THE ART PRODUCTION PLANT IN HEZE, EUROPEAN BASE IN GERMANY

Heze



Shandong production center in the city of Heze is applied since 2016 has the most advanced equipment and a full-automated manufacturing line.

The new factory covers an area 40.000 m² with an annual capacity about 2.500.000 pcs per year.

An effective modern warehouse and storage system helps ensure quick and accurate shipment.

Muenchen



From the Munich office the European market is coordinated

Puran is the independent full-range supplier for pads and blocks

Estimated world market pads and soles 600-800 m euros annually, only rail vehicles



EXAMPLE: TRAIN REFERENCE PURAN PAD BZP625



Chines & Berlin metros



ÖBB RIC-coaches



Netherlands intercity
trains (DDZ and DDM2/3)



Vienna X Wagen



Chinese CRH1 EMU:
CRH1A/1B/1E Bombardier



Korea passenger coaches



Chinese locomotives:
HXD3/HXD3B/HXD3C/
HXD1/HXD1B/HXD1C

Example: TRAIN REFERENCE PURAN PADS PRF1101- PRF1113



Chinese 380A series EMUs
(CRH2C-2, CRH380A/AL/AM/AN/AJ)

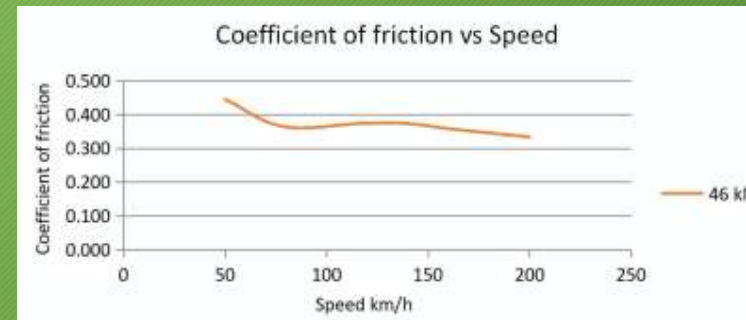
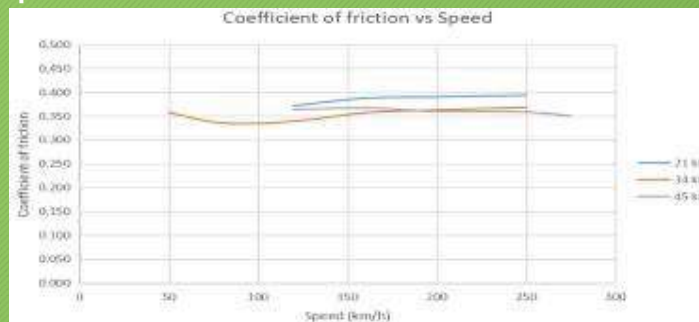


Chinese standard EMU "Fuxing" CR300/400 series EMUs
(CR300AF/BF, CR400AF/BF)



Qualified for Alstom Pendolini trains
Italy

Example:



EXAMPLE: TRAIN REFERENCE PURAN PAD BZP415



SBB IC2000



China Railway CR200J

THANK YOU

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