

Agenda

- Introduction
- Key Company Highlights
- Rail Vehicle Systems (RVS)
- Commercial Vehicle Systems (CVS)
- R&D Focus
- Financials
- Sustainability
- KB shares/ KB bonds
- Appendix



The Knorr-Bremse leadership team



Marc Llistosella, Member of the Board, CEO

- 2023-present: Knorr-Bremse | CEO
- 2021-present: Vaionic Technologies GmbH| Board Member and investor
- 2019-present: Einride AB| Board Member and investor
- 2008-2018: Daimler Trucks Asia | 2015-2018: President & CEO, Mitsubishi Fuso Truck & Bus Corporation; Head of Daimler Trucks Asia | 2008-2014: Managing Director & CEO, Daimler India Commercial Vehicles
- Diploma in Bus. Administration



Frank Weber Member of the Board, CFO

- 2020-present: Knorr-Bremse | CFO
- 2016-2020: Daimler AG | Head of Corporate Development
- 2019-2020: Mercedes-Benz AG | Head of Transformation
- 2013-2016: Daimler Trucks Asia | CFO
- 2011-2013 Mitsubishi Fuso Trucks & Bus Corporation | CFO
- Diploma in Bus. Administration



Dr. Claudia MayfeldMember of the Board,
Integrity & Legal

- 2021-present: Knorr-Bremse | Head of Integrity & Legal
- 2013-2019: RWE Pensionsfond | Member of the Executive Board
- 2016-2020: Innogy SE | Senior Vice President Group Legal & Compliance. General Counsel
- 2013-2016: RWE AG | Senior Vice President Group Legal & Compliance, General Counsel
- PhD in Accounting Principles



Bernd SpiesMember of the Board, CVS

- 2022-present: Knorr-Bremse | Head of CVS
- 2014-2022: Knorr-Bremse | Member (2013-2015) and Chairman (since 2014) of the Management Board, CVS
- 2008-2013: Hella KGaA Hueck & Co | Member of the Management Board, Global Sales
- 2006-2008: Robert Bosch GmbH | Head of Commercial Vehicles product division, Starters and Alternators
- Diploma in Electrical Engineering



Dr. Nicolas LangeMember of the Board, RVS

- 2023-present: Knorr-Bremse | Head of RVS
- 2017-2023: Knorr-Bremse | Member (2017-2019) and Chairman (since 2019) of the Management Board, RVS 2009-2017: Senior Vice President CoC Bogie Equipment 2006-2009: Head of Development and Testing Brake Mechanics 2000-2006: Team Lead Technology and Development Brake Mechanics
- Doctorate in the field of Transmission Technology

with Knorr-Bremse since

01/23

Years with Knorr-Bremse

2

Years with Knorr-Bremse

1

Years with Knorr-Bremse

8

Years with Knorr-Bremse

23

Knorr-Bremse – One of Germany's most successful industrial companies





Entrepreneurship-driven business culture



Global market leader for braking systems



Shared pneumatics experience between RVS and CVS



Technology leadership

2023 Key financials

Sales € 7.9bn

op. EBIT € 893m (margin 11.3%)

R&D € 544m (~6.9% of sales)

Aftermarket ~40% of sales

BALANCED PORTFOLIO²⁾...



RVS EBIT 60% (~14% Margin

CVS 40% (~10% Margin)

... AND DIVERSIFIED GLOBAL FOOTPRINT WITH HIGH LOCAL CONTENT



30 +countries

100 +sites

c. 33k employees³⁾

Notes: Sales, EBITDA, EBITA, and EBIT for 2020 based on annual report prepared in accordance with IFRS, other financial figures for 2020 prepared in accordance with German GAAP (HGB); Aftermarket share based on German GAAP (HGB) where BiIRUG sales allocated proportionally between OE and aftermarket; RVS - Rail Vehicle Systems; CVS - Commercial Vehicle Systems; 1) CAGR 1989-2019 based on German GAAP (HGB), 1989 - first year when consolidated accounts are available; 2) Excluding consolidation/other; 3) Including human resources leased staff; Source: Knorr-Bremse information

Over 30 years of consistent strong growth



1985

Management buyout by Mr. Thiele



2000

Bendix integrates Westinghouse Air Brake company



2015/18

Joint Venture with DonaFena Motor goes into operation & expansion 2018



2010-2018

€1bn+ capex invested to future-proof manufacturing and production facilities



2020

2021

Acquisition of RH. Sheppard Co., Inc. in the U.S



1985-1990

Successful strategy: Globalisation, focus on RVS and CVS, growth in connected systems



2002

100% acquisition of Bendix in the US



2015/16

7 acquisitions



2017/18

Acquisition of Vossloh Kiepe, Federal Mogul Ind. Property Rights and Hitachi Automotive Svst.



Acquisition of EVAC



Investment in Cojali

2022

1991

Dawn of the ICE era with high-speed braking systems



2006

4 Joint Ventures in Rail formed in China



2016

New state-of-the-art innovation and testing centre in Munich



2019

Strategic investment in RailVision & RailNova as well as acquisition of Snyder & Sentient.



2021

Investment in Autobrains





1995-1996

Rise of ADB technology



1999

Joint Venture with Bosch in Electronics

1985 1989 1990 1995 2000 2002 2003 2005 2010 2011 2012 2013 2014 2015 2016 2017 2018 ■ Sales (€bn) ● Important corporate events ● Product innovation ● M&A / Strategic partnerships

Notes: 1986-2016 based on financial statements prepared in accordance with German GAAP (HGB) and 2017-2019 based on financial statements prepared in accordance with IFRS. 1) 1989 - first year when consolidated accounts are available



2022 2023

Corporate values



Entrepreneurship

Knorr-Bremse regards challenges as opportunities for generating long-term, profitable growth



Passion

We are passionate about what we do





Reliability

Safety is the basis for everything we do - and we do not compromise on this



Responsibility

As a globally operating company Knorr-Bremse incorporates a workforce with a wide range of cultures and strengths



Technological Excellence

Knorr-Bremse stands for technological expertise and competence in all company divisions

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Global market leader in rail and truck



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Market leadership

High safety

A global market leader

- ~50% market share1 in RVS brakes
- ~23% market share1 in CVS brakes



Market outperformance

Track record of above industry growth



Innovation edge

Shaping industry trends by focusing on safety and mission critical applications



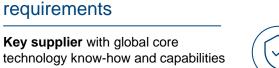
Sustainability

Our technologies are the foundation for sustainable and safe transportation



Profitability

Focus on attractive rail and truck end markets



Clearly ahead in global homologation processes



Resilience

40% aftermarket share¹ Well-balanced **portfolio Cost-efficient** operations





Global #1 – Leading supplier of safety-critical rail and commercial vehicle systems

RVS offering (2023: 47% of sales, 60% of EBIT)

Brake systems Entrance systems

HVAC1)

Train Control Management Systems

LRV2) traction systems

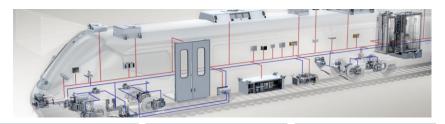
CVS offering (2023: 53% of sales, 40% of EBIT)

Fuel efficiency

- Engine components
- Transmission

Brake systems, steering & vehicle dynamics

- Brake control
- Automated driving
- Brake systems Steering systems



Power electrics

Sanitary systems

Signaling systems

Modernisation and support

Aftermarket business



Energy supply & distribution

Connectivity

Electrification

Aftermarket services including Alltrucks network3)

ALLT QUCKS

Our customers

Example car builders

ALSTOM.



SIEMENS STADLER



Example operators

















PACCAR







TR/\TON



O DONGFENG





Notes: 2020 financials based on IFRS excluding consolidation/other; 1)HVAC - Heating, ventilation and air conditioning; 2)LRV - Light rail vehicle; 3) Joint Venture between Bosch, Knorr-Bremse and ZF providing a range of workshop services relating to the repair and maintenance of commercial vehicles across all brands; 4) OEM - Original Equipment Manufacturer



Global #1 – ... protected by high barriers to entry

Barriers to entry for RVS and CVS markets

Regulation / homologation

Low volumes, high number of variants with high level of customisation

High initial capital requirements, highly protected IP landscape and economies of scale

Highest quality and safety requirements

Long life-cycle with resulting customer loyalty, long gestation period for aftermarket

Same industry leaders since creation of the industry over 100 years ago

Market specifics

Only supplier world-wide

certified for all global and local standards and norms (GOST, UIC, AAR, ARA)

Vast array of product variants to homologate (e.g. >100k active brake articles by Knorr-Bremse)

Homologation time typically 4-8 years for recent Knorr-Bremse products

One of only two suppliers able to offer harmonised products globally

Continuously increasing safety and emission standards requirements

CVS

KB has maintained and expanded its market leading positions



Market positions key product groups¹



Brake systems

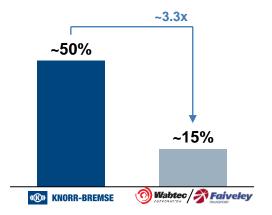


Entrance systems



HVAC systems²

Global brakes market shares1



Example global market leader for brakes¹



Market positions key product groups³



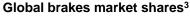
Brake systems & vehicle dynamics⁴

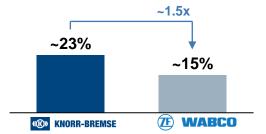


Energy supply & distribution⁵



Fuel efficiency⁶





Example global market leader for brake systems & vehicle dynamics⁴

^{1) 2020} estimates for OE and aftersales without labor; Wabtec includes Faiveley; For competitor, an estimate was used; Market shares rounded to the nearest multiple of 5% 2) Heating Ventilation Air Conditioning 3) For 2020 global addressable Truck, Bus and Trailer OE market, excl. aftermarket 4) Air disc brake, valves / pedal unit, actuators, foundation drum brake, steering, brake control (ABS, EBS, ESP), ADAS, ELC, others 5) Compressors, air treatment 6) Vibration dampers, engine air control, transmission – gear and clutch actuation/ control; Source: internal market research

Resilience – Strong business model

Strong resilience of growth and profitability

Different economic cycles

- ~50/50 split RVS and CVS (by sales)
- Different market drivers
 - short vs. long cycle
 - private vs. public investment

High aftermarket share

- ~40% total sales¹)
 - 52% of RVS sales1)
 - 29% of CVS sales1)
- Large installed base



Diversified customer base

Partner to all major local and global players

Global footprint and local content

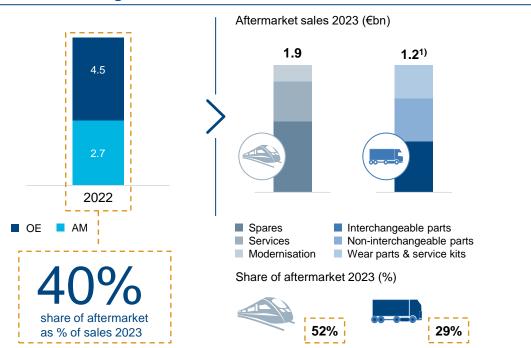
- High level of local content in manufacturing, purchasing and R&D
- Presence in 30+ countries with 100+ sites
- ~80% of employees outside Germany
- ~15% of employees in **China**, catering to local market

Notes: 1) Based on IFRS in 2023



Resilience – Attractive aftermarket business with comprehensive service offering drives profitability and contains high future potential

Aftermarket is the growth and resilience backbone



Key features

Annuity-like





20-30 years long relationships

Close to the customer

- RVS
 - 36 service centres2)
 - 20 service locations at customers' premises
- CVS
 - >1,600 certified service partners
 - >700 Alltrucks workshops

Strong customer retention (homologation)

- High switching costs
- Focus on safety and quality
- IP protection

Innovative business model

- New connectivity-based business models
- Preventive
- Predictive



Notes: 1) Total CVS aftermarket sales and independent aftermarket sales EMEA (excl. South Africa & Skach) as proxy for the global split; 2) Does not include service locations at customers' premises



Synergistic business – Technology and scale benefits between Rail and **Commercial Vehicles**

Interdependence of RVS and CVS

- Same core technologies
- Shared components and materials
- Co-located R&D centers
- Shared overhead functions

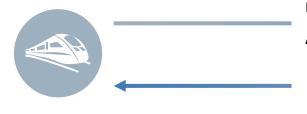
Future technology development

- Shared research centres
- ADAS¹⁾ / HAD²⁾ technology transfer
- Condition monitoring, condition-based and predictive maintenance
- Electrification and connectivity
- Electromechanical brake systems

Differences of RVS and CVS

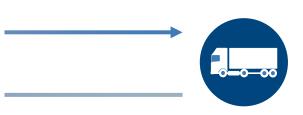
- Serial business (CVS) vs. project business (RVS)
- Different customer group

RVS **CVS**



Electric compressors Friction materials Air disc brakes (ADB)

Driver assistance Trailer control valve Electronic air supply



Notes: 1) ADAS - Advanced driver assistance system; 2) HAD - Highly automated driving



Innovation is the basis of KB's technology leadership and long-term success



True Scale:

>4,000 R&D employees Thereof 740 software engineers 5 global R&D centers (3 co-located)



Agile R&D methods implemented



Extensive partnership network & collaboration with tech players



In-house incubator



Pioneering innovations (examples)

RVS



Digital automatic coupler for freight (DAC)



CVS

Electric power steering



Reproducible braking distance



Electronic parking brake



LIFEDrive sliding doors



eCompressor

Long-term R&D ratio: 6 – 7 %

We confirm our successful strategy

- ((1)) Systematically develop base portfolio
- ((2)) Focus on attractive segments for future outperformance in rail and truck
- ((3)) Drive innovation & digitalization
- ((4)) Clear M&A strategy
- ((5)) Operational excellence
- ((6)) ESG and sustainability
- ((7)) Strong financial performance





Knorr-Bremse is ideally positioned to shape the trends of the future









Urbanization

Sustainability

Digitalization

Mobility

Industry trends: addressing industry trends with superior technological solutions



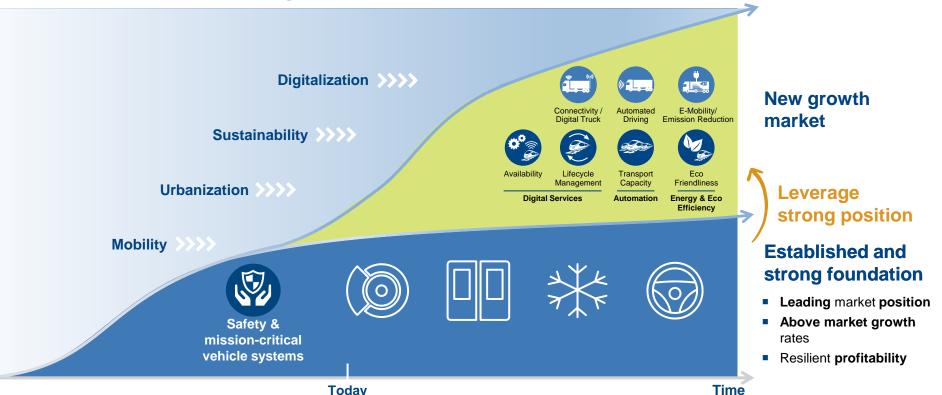
Transport Capacity
Availability
Eco Friendliness
Life Cycle Management



Traffic Safety
Emission Reduction & E-Mobility
Automated Driving
Connectivity

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Knorr-Bremse will continue to grow its core business further and will also develop new levers of growth



Knorr-Bremse continues to systematically develop its portfolio of mission critical products and digital solutions

Mechanical products

Mechatronic products

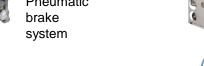
Smart & digital products

Strong basis -





Pneumatic







Air disc brake



Electronically controlled pneumatic brake





ABS & EBS



Smart brake control (Cube Control)









Digitalization empowers KB's growth engine



Majority investment





Strategic partnership & minority investment





Capabilities

Applications

Impact

All-Makes workshop diagnostics

Telematics incl. remote vehicle diagnostics

Data analytics & big data





Predictive maintenance



Data monetization











Diagnostics & telematics



Cloud-based ecosystem

Multiple transport segments¹





Predictive maintenance





Strong growth & profitability

1. Segments include rail freight, maritime freight and rail non-freight & DAC 2. Digitally-enabled revenue by Nexxiot 3. In connected wagons & intermodal containers

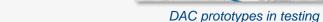
RVS in strong position to tap into digital automatic couplers

Vast untapped future market in 2030+



RVS at the forefront

of innovation



Locomotives¹



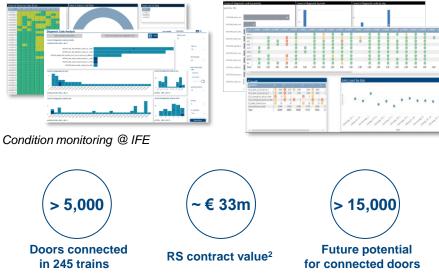
~ 17k

^{1.} Current numbers for EU market only, representing potential future market in Europe

Condition monitoring to become a major source of digital offering



RVS helps customers to efficiently monitor and measure KPIs:



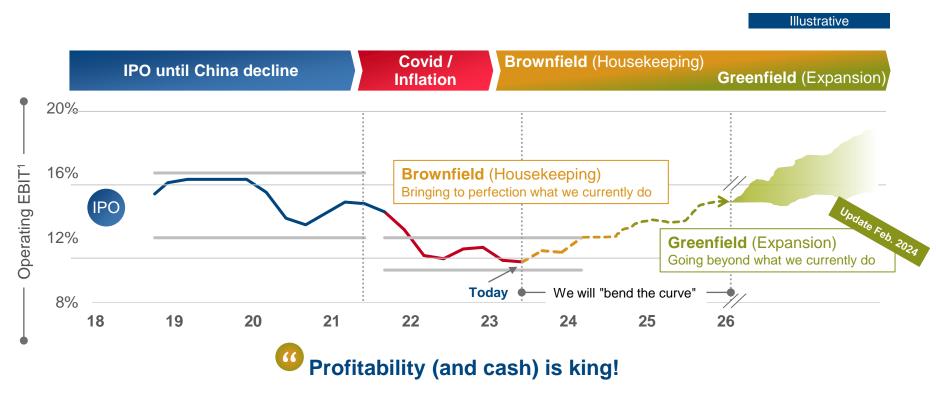


... Predictive maintenance to come next

1. MTBF: Mean Time Between Failures 2. Monitoring offered as part of long-term supply agreements (LTSA) only; includes active and ordered volume



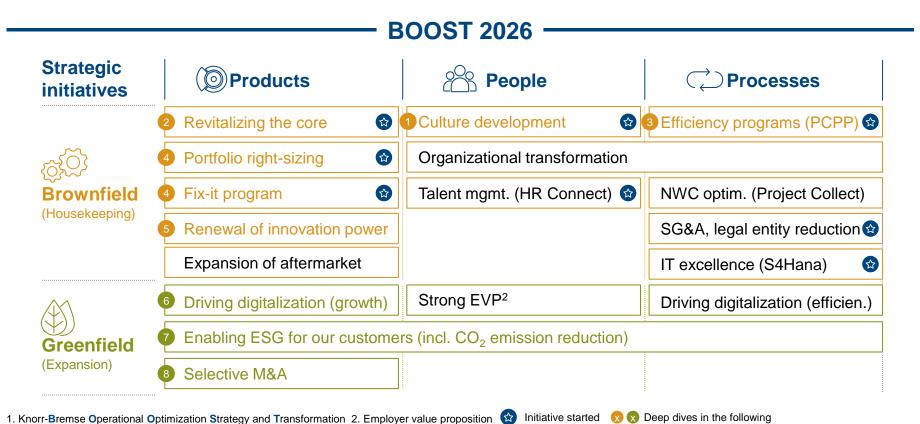
We will "bend the curve" to bring KB to the next level



1. Indicative reported EBIT; Note: All figures after today are illustrative only

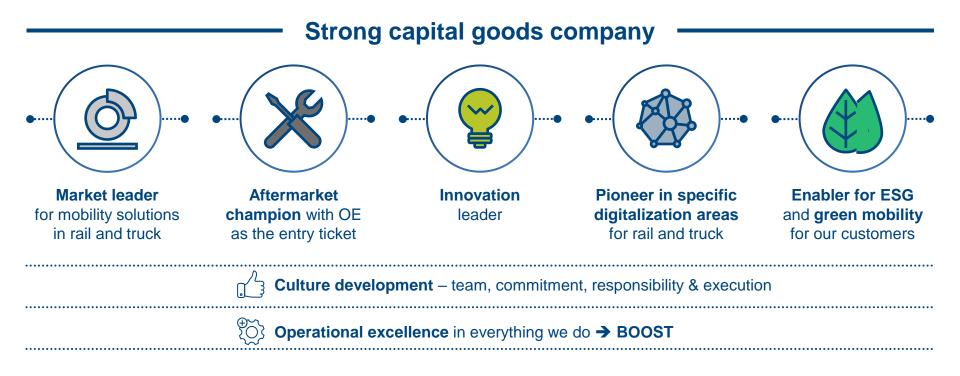


BOOST¹ program with clear responsibilities to reach the next level





Clear vision for 2026: Become strong capital goods company by successfully managing portfolio of robust assets



Targets 2026: Ambitious financial targets to drive value creation

Strong capital goods company







Growth

Revenue € 8-9bn

Profitability

Op. EBIT margin	> 14%
CVS	> 13.5%
RVS	> 16.5%
ROCE	> 20%

Free Cash Flow

CCR 80-90% sustainably

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RVS: outperformance and resilience





Market leadership



Strong growth profile



Technology innovation

Global #1 market leader across products and regions (e.g. ~50% market share in brake systems)

RVS with long track record of outperforming underlying markets

- Strong technology innovator shaping industry standards
- Continuation of R&D investments



High barriers to entry



Resilience



Profitability

- Safety-critical products with significant homologation barriers
- RVS only supplier certified for all standards and norms globally

- Expansion of business through customer-region-product mix
- Strong aftermarket (~48% revenue share)

Outstanding profit margins with track record of margin expansion and disciplined cost management

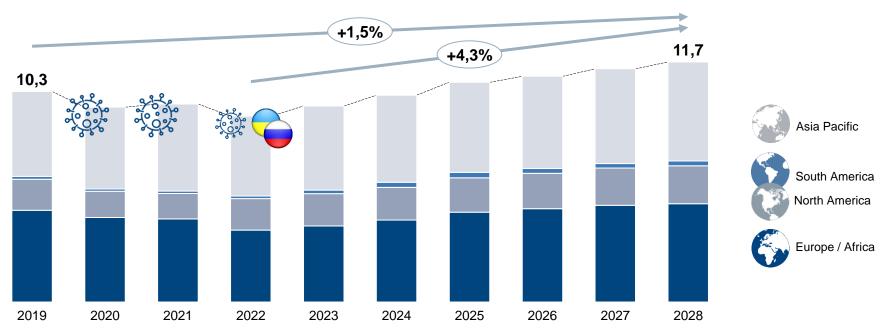
RVS: the leading safety critical systems supplier for rail with a track record of market outperformance

2023 key financials **Highlights** 2023 sales split by region Rail brake systems supplier globally¹⁾ € 3.7bn sales Asia /Australia 32% Rail entrance systems Europe supplier globally1) 56% Americas 12% **HVAC** systems supplier globally1) € 536m op. EBIT (14.3% margin) Global brakes market share1) by channel Present in 50-55% of global AM installed base²⁾ 52% 52% aftermarket share⁴⁾ c.16k employees

Notes: BilRUG sales allocated proportionally between OE and aftermarket; 1) RVS market share estimates for OE and aftersales without labour; 2) All active rail vehicles without freight cars with a minimum of one Knorr-Bremse system related to brakes, entrance systems and HVAC installed; 3) Total reported RVS sales growth including OE and aftermarket based on German GAAP (HGB) 2010-2016; from 2016 IFRS 4) BilRUG sales allocated proportionally between OE and aftermarket

Long-term growth in global rail will continue, despite Covid aftermath and Russian invasion into Ukraine

Development of relevant sub-systems market volume¹ (OE + AM in €bn)



1) Big Five - Brakes, Doors, HVAC, Power Electrics, TCMS; Source: Knorr-Bremse information and internal market research



Future growth will come from markets in Europe, Asia and Americas



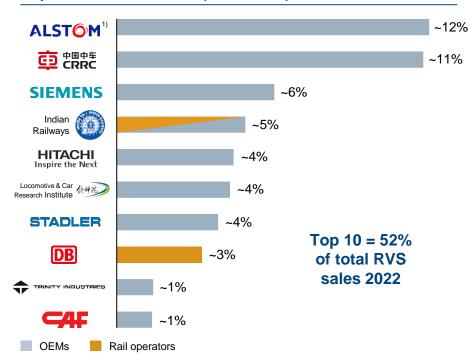


¹⁾ Brakes, Doors, HVAC, rounded to the nearest 50 2) Rest of World w/o selected biggest growth markets & w/o Russia & CIS 3) Year 2022 Source: Knorr-Bremse internal market research; Values recognize FX rates



Global Tier-1 partner of choice for OEMs and rail operators in all regions

Top 10 customers 2022 (% of sales)



Other major Knorr-Bremse customers

>300 relevant rail operator customers



>50 relevant OEM customers



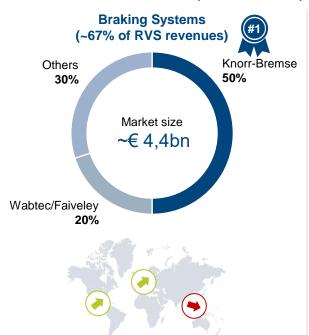
Notes: 2022 sales and customer data based on 31.12.2022; Share of top 10 customers as % RVS sales 2022 may not add up due to rounding; 1) incl. ex-Bombardier, excl. JV

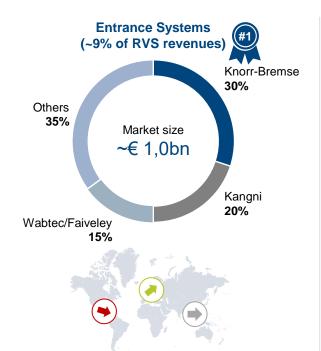


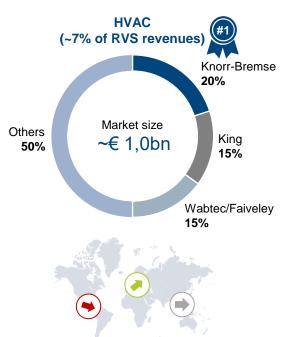
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RVS holds global #1 position across key product categories

Global market share 2022¹ (% of revenues)







¹⁾ Market share based on deliveries, estimates for OE and AM without labor, rounded to the nearest multiple of 5%; For competitors, a price estimate was used; Note: Based on German GAAP (HGB); Source: Knorr-Bremse information and internal market research

in Indication on Knorr-Bremse market share regional development 2021 to 2022 based on deliveries

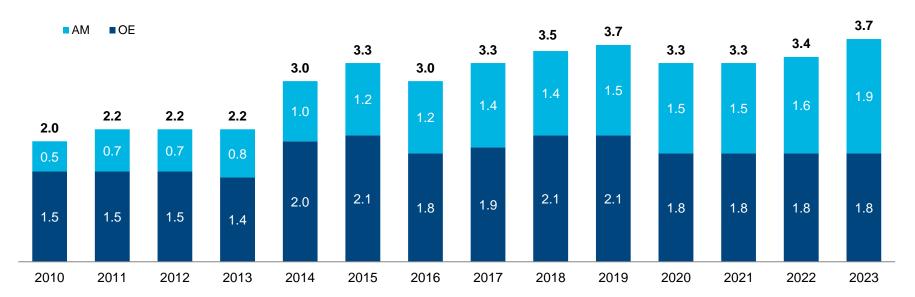


Historic development of OE and AM business



Strong growth both in OE and AM

RVS sales by type (until 2017 German Gaap/HGB, 2018-2020 IFRS, €bn, 2010-2023) 1)



Note: some figures may not add up due to rounding; 1) BilRUG sales allocated proportionally between OE and aftermarket



Revenue split 2023 in €bn OE 52% AM 48%

Aftermarket business will continue to be an important growth engine



Opportunities



Use installed fleet



Modernization



New service models & digital solutions



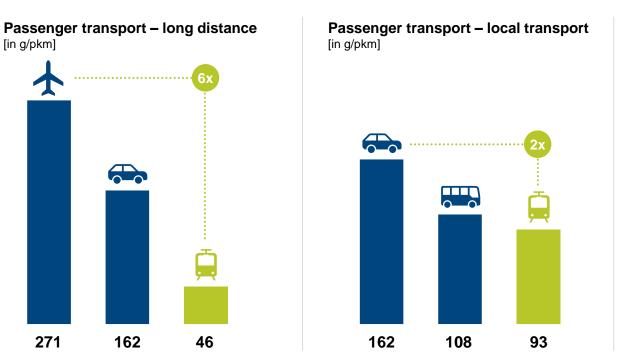
Challenges

- Competition by OEMs, focussing more on service
- Insourcing and lifecycle costs optimization, incl. stretching overhaul cycles

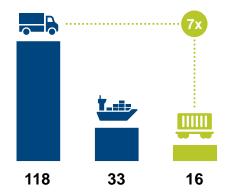
CO₂ emission targets not achievable in transportation without rail



Greenhouse gas emissions from transport¹







¹⁾ Reference year 2021, source: https://www.umweltbundesamt.de/themen/verkehr/emissionsdaten, accessed on May 16th, 2023



RVS is the only supplier world-wide certified for all local standards and norms



Market protected by unique level of complexity ...

Major global standards	4
Unique configurations for vehicle types	7
Brake subsystems	3
Safety-critical components	>100
Country- and customer-specific variants	Multiple
100k active brakes articles to homologate	

... and long homologation time for each component

Standard ¹⁾		Typical time-to-market	
	Key regions	Development (yrs) ²⁾	Certification (yrs) ²⁾
ųíc)		A	4
C GOST		A	4 3
Association of American Railroads	7	↑ 3	4 1
AUSTRALASIAN RAILWAY ASSOCIATION	**	∱ [3]	4 1

Combination of IP ownership and homologation creates high barriers to entry

1) GOST based on recent homologation process, other norms based on expert estimates by Knorr-Bremse; 2) Estimated average required "time-to-market" of a basic freight car solution



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CVS with high-quality business model: outperformance and resilience





Market leadership

A global market leader increasing market share (~23% for brake systems & vehicle dynamics)



Strong growth profile

Continuously outperforming markets with rising content per vehicle (5% sales CAGR vs. ~2% TPR growth between 2012-2021)



Technology innovation

Technology leader with continuous significant **investment** in **innovation** and **R&D**



High safety requirements

Global key supplier with system know-how and vehicle dynamics capabilities



Resilience

Strong aftermarket share (~29% revenue share), cost efficiency, regional diversification as well as track record in strong cost management execution



Profitability

Technology differentiation, superior products, systems approach, scale advantage and consequent cost management

CVS: one of two global leaders with an outstanding position in braking and safety-relevant systems



Notes: Sales, EBITDA, EBIT and respective margins based on IFRS; other figures based on German GAAP (HGB) 1) 2020 global addressable Truck, Bus and Trailer OE market.; 2) Total reported CVS sales growth including OE and AM 3) Sales split by region based on IFRS; Other splits based on German GAAP (HGB)

Knorr-Bremse is the partner of choice for global OEMs with long-standing relationships



Top 10 customers 2022 (% of sales)

Years of relationship

Other major Knorr-Bremse customers



>90
>30
>90
>30
>20
>30
>30
>90
>5
>5







KRONE









BLUE BIRD

















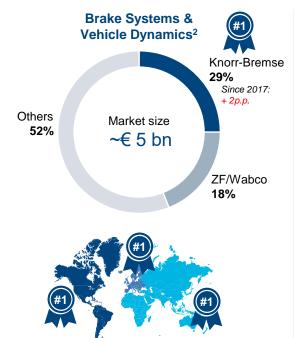


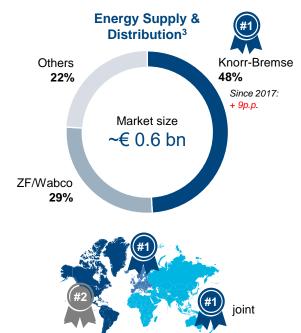
Note: Share of top 10 customers as % CVS sales 2022 may not add up due to rounding

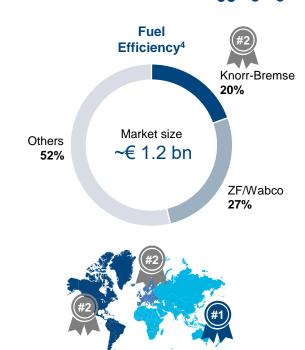


CVS is market leader in all major product fields

Global market share 2022¹ (% of revenues)







1) 2022 estimated addressable Truck, Bus and Trailer OE market, incl. "Brake Systems & Vehicle Dynamics (incl. Automated Driving)", "Energy Supply & Distribution" and "Fuel Efficiency"; excl. aftermarket; Knorr-Bremse data 2) Air Disc Brake, Valves / Pedal Unit, Actuators, Foundation Drum Brake, Steering, ABS, EBS, ESP, DAS, ELC; incl. segment Others 3) Compressors, Air Treatment 4) Vibration Dampers, Engine Air Control, Transmission – Gear and clutch actuation

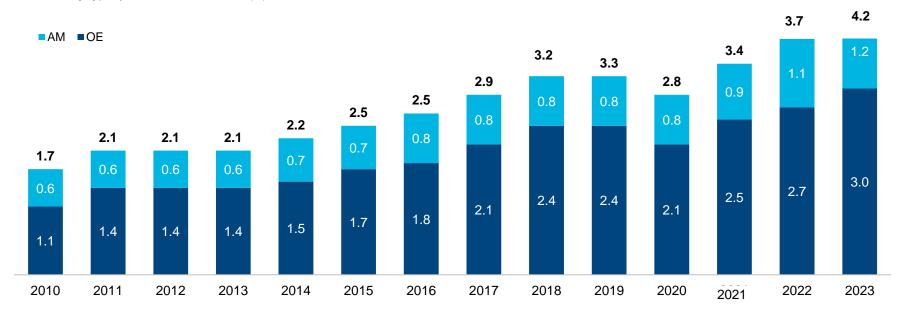


Historic development of OE and AM business



Strong growth both in OE and AM

CVS sales by type (HGB, €bn, 2010-2017)1) 2018-23 IFRS



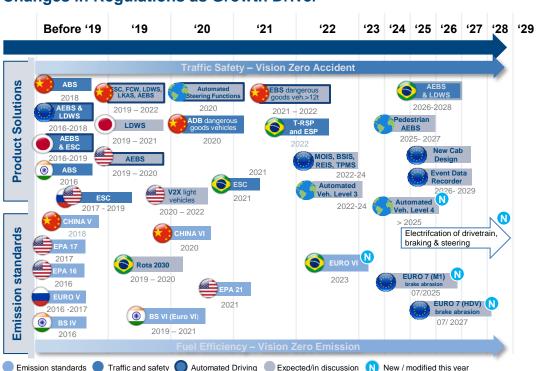
Notes: Some sales split may not add up due to rounding 1) BilRUG sales allocated proportionally between OE and aftermarket; 2) Global Truck and Bus market excluding aftermarket and Trailer; Source: Knorr-Bremse information and internal market research; IHS for truck production rate



Electrification, Brake Emissions and Software



Changes in Regulations as Growth Driver









Legislative decisions foster demand for Knorr-Bremse solutions

Higher Content per Vehicle (CpV) will fuel CVS's growth in the future

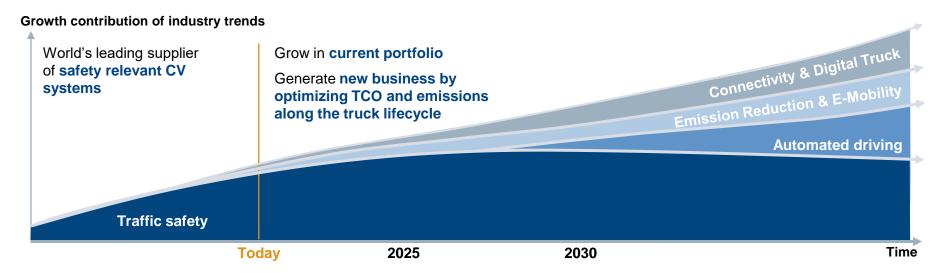


- E-mobility and autonomous driving to fuel CpV growth
- Advancement in safety features is a growth catalyst in Asia
- Especially, China market growth driven by increases in Air Supply and Drivetrain
- In North America, KB CpV is already at high levels technological adaptations and enhancements prevail

New growth areas for CVS



Illustrative growth potential



Current CVS portfolio with focus on traffic safety perfectly fits market demands

In the future however, CVS will gain more content per vehicle growth with solutions for Automated Driving, Emission Reduction & E-Mobility and Connectivity



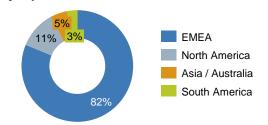
The Cojali Group is a Spanish Diagnostics expert with strong offerings in All-Makes Diagnostics, Remote Diagnostics and Alternative Specification

Key facts

- Headquarter:
 - Campo de Criptana, Spain
- Subsidiaries:
 - Cojali US
 - Cojali France
 - Cojali Italy

Regional presence

Cojali products are available in 135 countries



Financial KPIs

Sales 2022: >90 mEUR

R&D Share: ~7%

Employees ~550

Brands













Key Product Categories

All-makes Diagnostics & Workshop Tools

Solutions for trucks, trailers, buses as well as LCV, Off-Highway and Marine



214 BRANDS

6,027



Telematics & Remote Diagnostics

Fleet Management and Remote Diagnostics for Commercial Vehicles





Alternative Specification

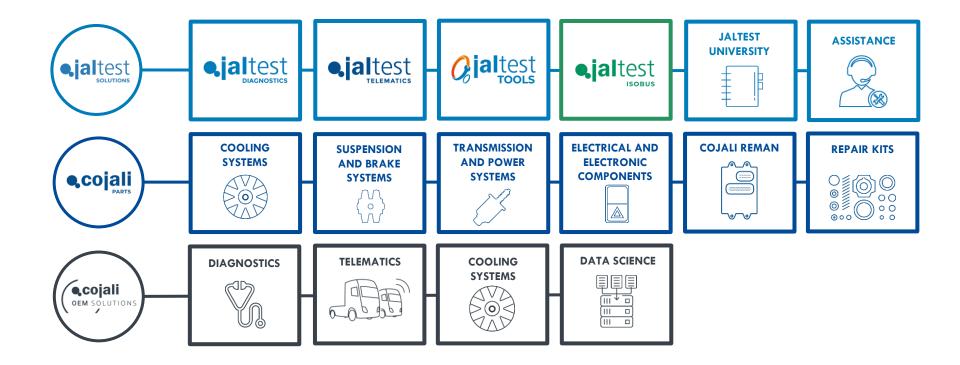
Air Brake, suspension, transmission, electric and cooling system components





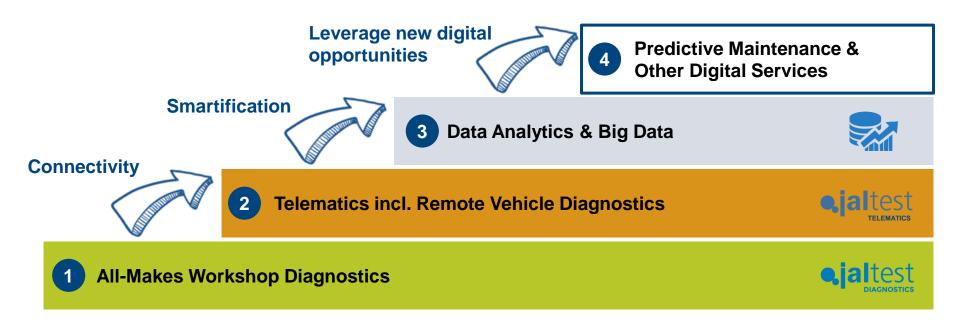


Cojali's product offerings





Cojali enables Knorr-Bremse to strengthen its position as system supplier in the global growth market of digital solutions and data-driven services



CVS – fascinating its customer with best-in-class products and setting clear focus areas on leading industry trade shows

Selection of focus areas

DRIVING **TRUCK MOTION CONTROL AUTOMATED**





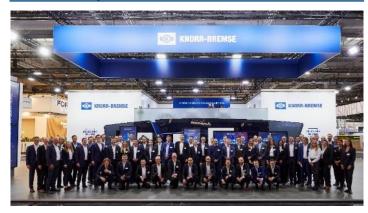
REDUNDANT SYSTEMS



ELECTRIFICATION



IAA Transportation



Automechanika





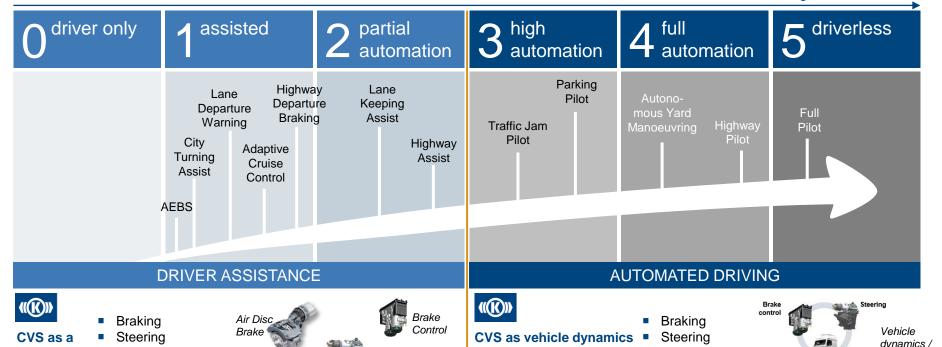
HIGHLY

CVS offers both driver assistance and automated driving solutions

Steerina



degree of automation



supplier

Sensors

Level 1 and 2 functions

system

supplier

CV system competence

Vehicle dynamics

Related redundancy

Truck Motion

Control

CVS is offering a broad product portfolio for electric trucks

EV adapted portfolio



New EV product fields



eCompressor



Electric screw compressor

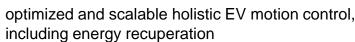


Low air demand compressor for future EV requirements





EV brake control & vehicle dynamics







EV brake resistor

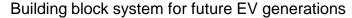
Redundant power

management system





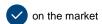
EV wheel brake

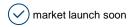




Opportunities in H2 vehicles











in assessment



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Focused R&D investments define product roadmap for KB

Strong R&D base...





5 Global R&D centers 6-7%
Long-term
R&D ratio





~ € 490m R&D expenses (FY22) > 12k
Patents
worldwide

...to shape product innovation¹...

Roll-over products:

Electric Power Steering

Product upgrades:

Condition monitoring

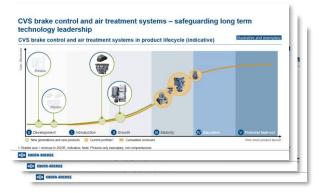
New products:

Digital automatic coupler

Scope increases:

Aftermarket ecosystem

...with effective tracking in place



- R&D project tracking
- Rigorous monitoring of S-curves along maturity stages
- Analysis of roll-over products / substitution and new products

1. Including examples



R&D: Synergies and cross-proliferation

Cross-divisional R&D examples

1990 Air Disc Brake



Technology transfer for ADB from RVS to CVS



1992 Air Disc Brake



1985 Screw Compressor



RVS Screw Compressor technology adopted for CVS applications



2011 Screw Compressor



2021/2022 Collision Avoidance



Collision Avoidance for RVS based on CVS system know-how within the field of sensor technology



2008 Collision Avoidance



Faster time-to-market



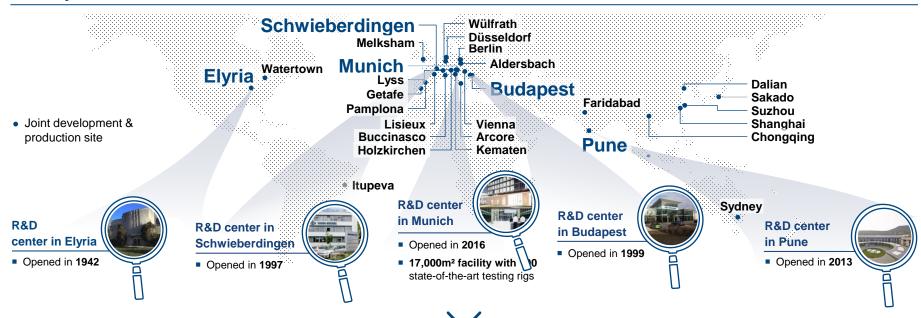
Higher cost benefit



Focused customer solutions

Leveraging Knorr-Bremse's synergies & partnerships: centres of excellence as basis for sustained technology leadership

Globally $\Sigma > 4,000$ FTE

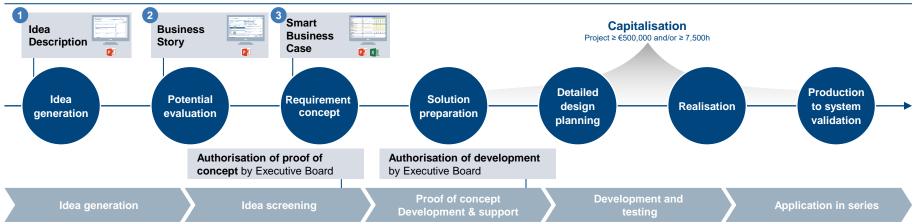


Knorr-Bremse's innovations are supported by a network of specialized development centres with joint production and R&D

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Knorr-Bremse deploys structured and effective processes to drive innovation results

Knorr-Bremse R&D process



Knorr-Bremse's innovations are designed for clear customer impact...

- (5) Optimisation of TCO1)
- Reduction of energy consumption, noise, weight
- Safety & reliability
- Connectivity, wireless solutions, ethernet
- Adaption to regulation

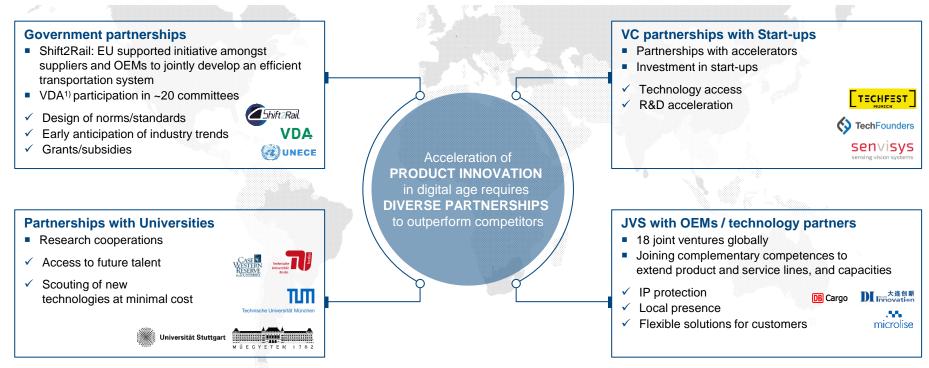
...and maximum economic benefit for Knorr-Bremse

- All projects assessed based on NPV²
- Prioritisation of projects according to IRR3)
- Optimise time-to-market
- Short payback time of investment
- Ability to leverage innovation across customer portfolio

Notes: 1) TCO refers to total cost of ownership; 2) NPV refers to net present value; 3) IRR refers to internal rate of return



Close co-operation with customers & strategic partners



Countries Knorr-Bremse is present

Notes: 1) VDA - Verband der Automobilindustrie (German Association of the Automotive Industry)

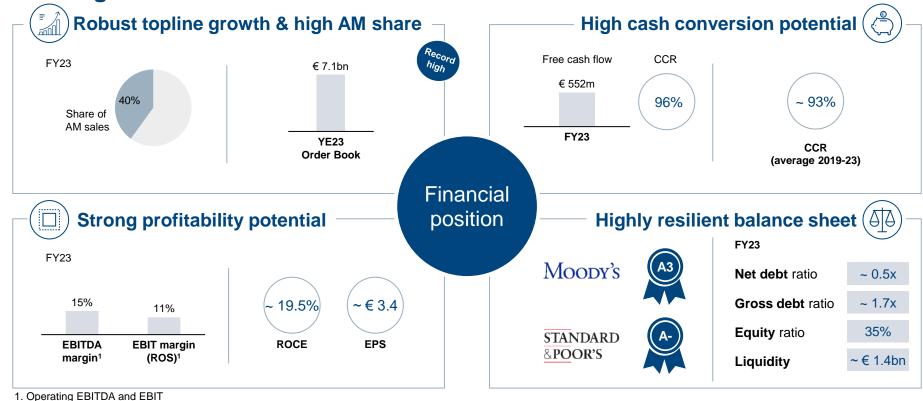


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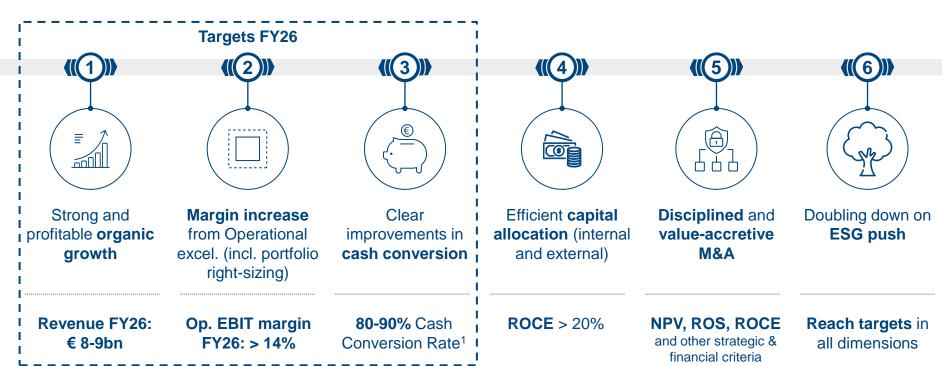
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Status Quo | Despite a challenging environment, KB's very solid financials are a strong foundation for the transformation



Financial Strategy | KB target picture translates into clear financial targets supporting profitability growth



1. CCR: Cash Conversion Rate = FCF / Net Income



Capital Allocation | Our clear priorities 1 - 3 to safeguard efficient capital allocation

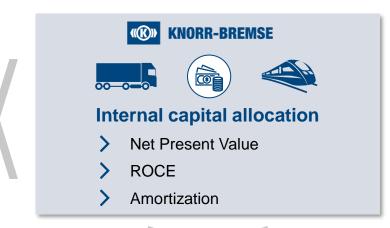




6-7% R&D ratio1



5-6% CapEx ratio¹





Inorganic growth (M&A)



Value-accretive (NPV)



Profitable growth and high returns (ROS / ROCE)



1. In % of revenues





Level of priority

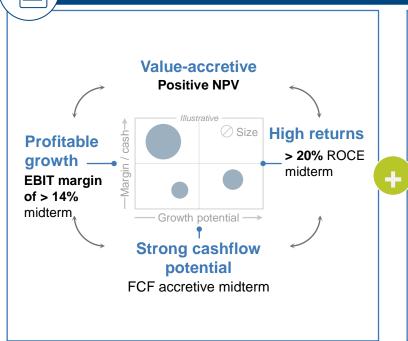


M&A | Disciplined approach based on a holistic set of updated M&A criteria will guide future acquisitions as add-on to organic growth

Strategic focus



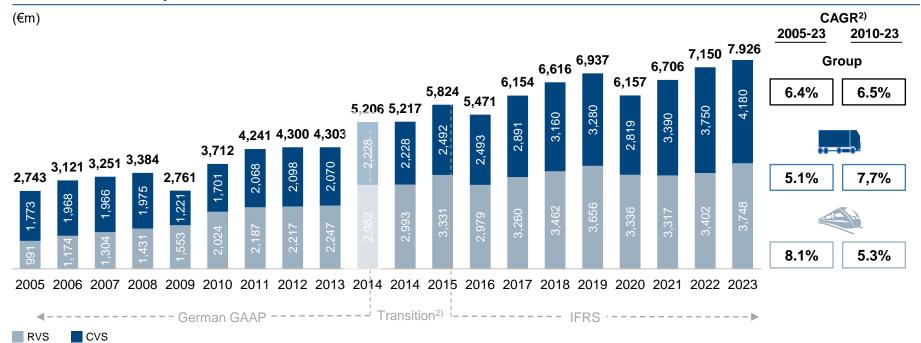
Financial guardrails for larger transactions



- No larger restructuring cases (< € 50m revenue)</p>
- No significant barriers to integration
- Contribution of strongAM business
- Leverage must support investment grade of KB
- Expansion beyond RVS and CVS (Greenfield) only if KB is best owner

Track record of strong and sustainable top-line growth ...

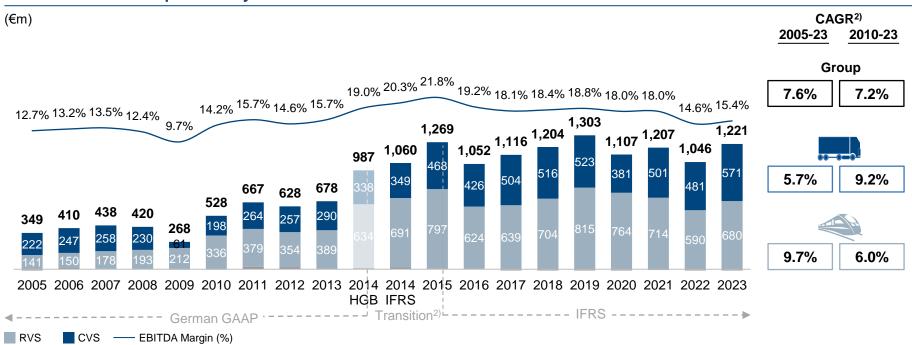
Historical sales¹⁾²⁾ by division



Notes: 1) Divisional historic figures do not add up to group sales excluding consolidations/other; 2) 2014 represents the first year that Knorr-Bremse prepared its financial statements in accordance with IFRS. Prior to 2014, financial statements were only prepared in accordance with German GAAP (HGB). IFRS differs in certain aspects from German GAAP (HGB), and accordingly data presented in accordance with German GAAP (HGB) may not be comparable to data prepared in accordance with IFRS; Source: Knorr-Bremse information

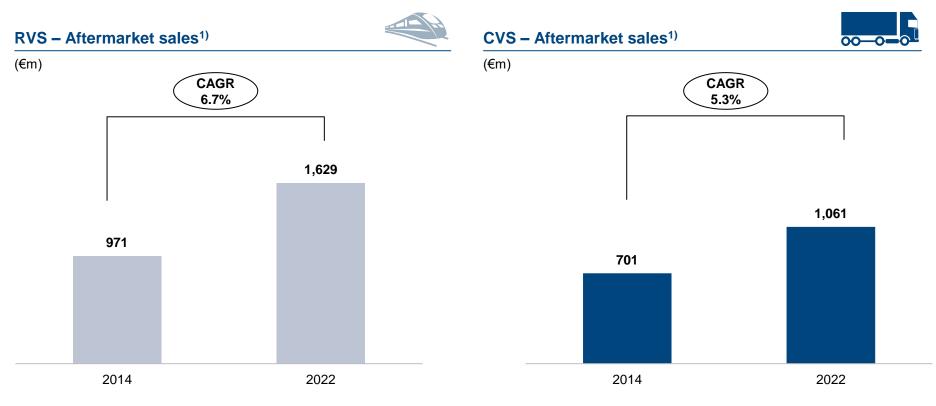
... combined with disproportionate EBITDA growth

Historical EBITDA¹⁾²⁾ profitability



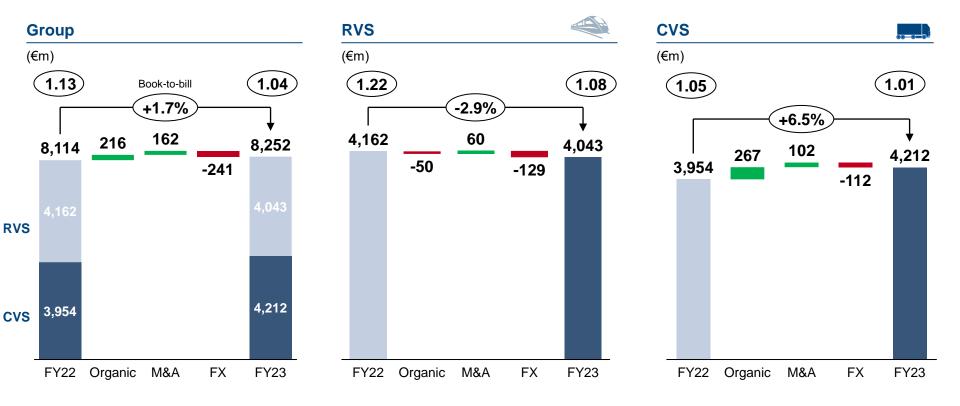
Notes: 1) Divisional historic figures do not add up to group sales excluding consolidations/other; 2) 2014 represents the first year that Knorr-Bremse prepared its financial statements in accordance with IFRS. Prior to 2014, financial statements were only prepared in accordance with German GAAP (HGB). IFRS differs in certain aspects from German GAAP (HGB), and accordingly data presented in accordance with German GAAP (HGB) may not be comparable to data prepared in accordance with IFRS; Source: Knorr-Bremse information

... all supported by solid aftermarket sales growth

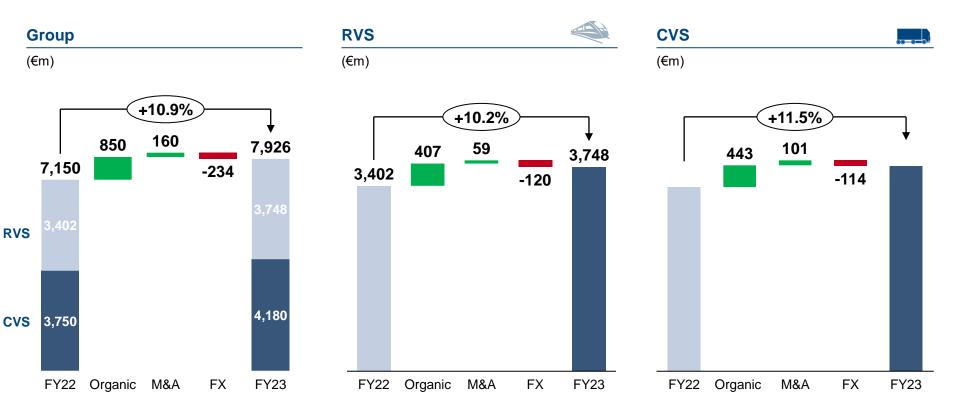


Notes: 1) Based on IFRS; BilRUG sales allocated proportionally between OE and aftermarket

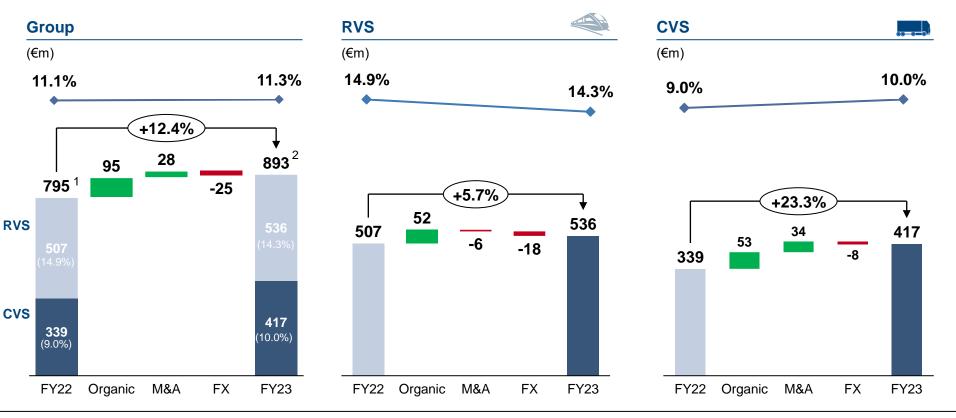
FY23: order intake for Group, RVS & CVS



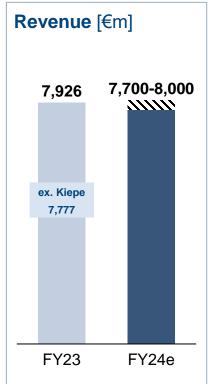
FY23: revenue for Group, RVS & CVS

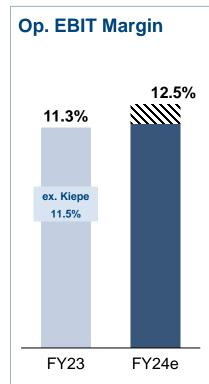


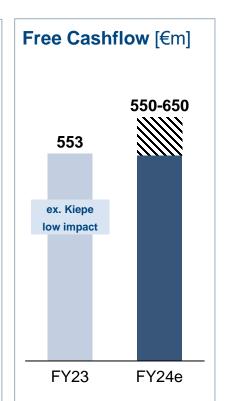
FY23: op. EBIT for Group, RVS & CVS



Group guidance FY24¹







General Assumptions:

- Stable FX yoy
- Essentially stable geopolitical and macroeconomic conditions

Divisional Assumptions:

RVS:

- Solid organic revenue increase (
- Solid EBIT margin increase (>)



- Slight revenue decrease ()
- EBIT margin flat/ slight increase



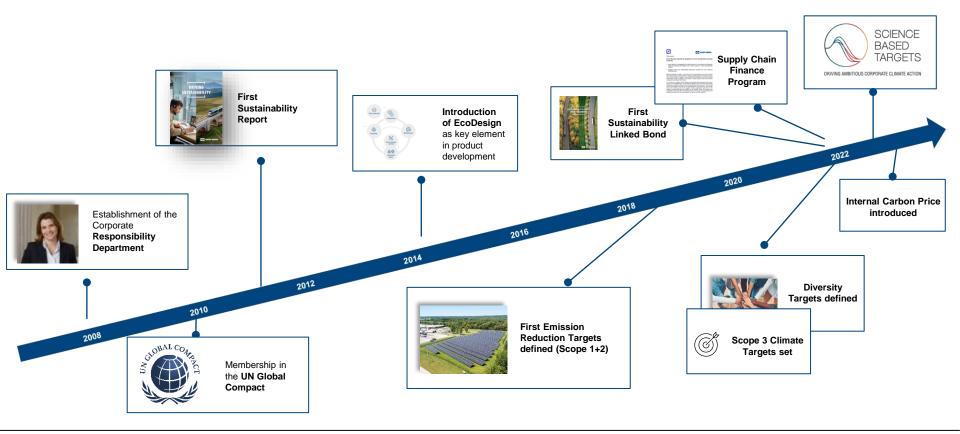


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Knorr-Bremse's longstanding commitment to sustainability



Sustainability is a fundamental layer of Knorr-Bremse's corporate strategy

ESG: Anchored in our Vision for 2026...



... and managed within a clear framework.

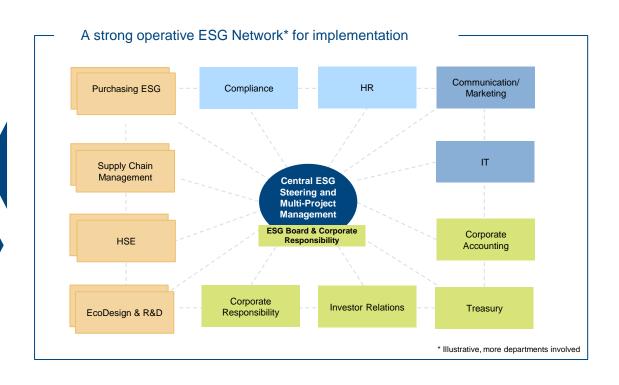


Strong Governance to steer Sustainability within the company

High-level ESG-Board

- Executive Board, Divisions & Regions, Global Care e.V. & CR represented
- Minimum four meetings per year
- Strategic guidance, target & program monitoring, overall steering

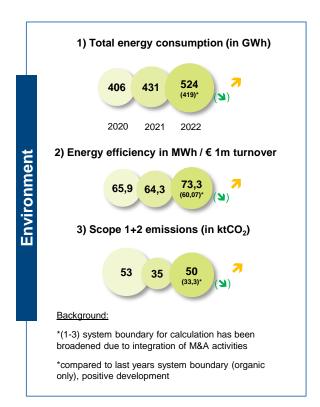


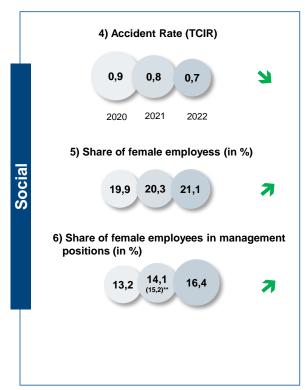


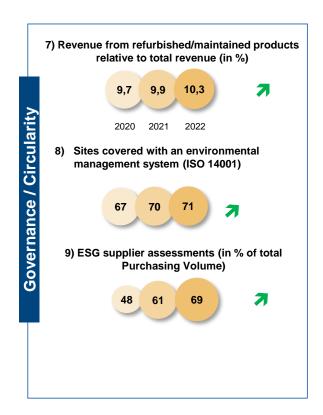
Knorr-Bremse has defined ambitious short- and mid-term ESG targets

	Topic	Description	Target		
	Climate Change	Scope 1+2 reduction (baseline 2018)	2030	-75%	SCIENCE BASED
targets	Climate Change	Scope 3 reduction (baseline 2021)	2030	-25%	TARGETS DRIVING AMBITIOUS CORPORATE CLIMATE ACTION
	Diversity	Women in management level	2027	20%	
Mid-term	Diversity	Women in overall workforce	2027	25%	
	Sustainable Supply Chain	Sustainability Assessments of Knorr-Bremse supplier (coverage rate based on spend)	2025	75%	
targets	Energy Efficiency	Efficiency Approved Energy Efficiency Projects		5.4 GWh	
	Employee Safety	Workplace accidents / 200.000 contracted working hours (TCIR)	2023	0.89	Remuneration of Top- Management (STI)
Short-term	ESG Ratings	Relative positioning of ESG Ratings (ISS + S&P + Sustainalytics)	2023	Top 11.5-14.5% Percentile	(01.)

Facts & Figures 2022 – positive development in all three ESG dimensions





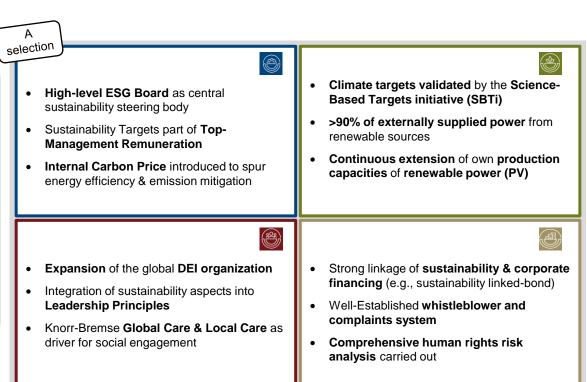


** compared to FY2021 scope

^{* &}quot;organic" growth (scope) without M&A

Integration into our business activities and implementation of the measures





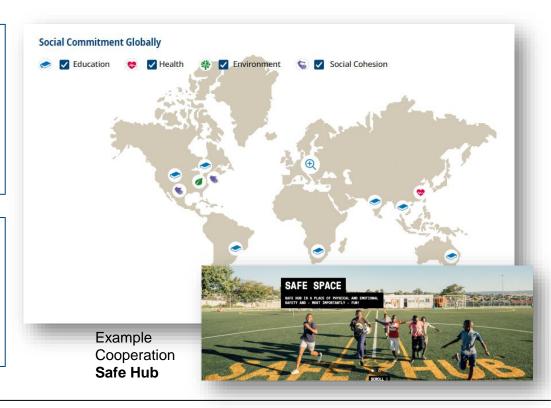
Social commitment on local and global level has a long track-record at Knorr-Bremse – examples from our activities

Knorr-Bremse Local Care

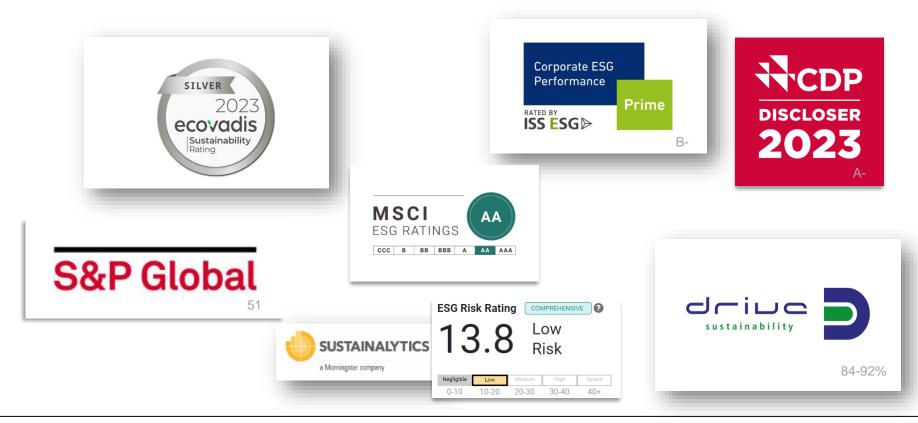
- Local Care organizes and financially supports a broad range of social activities
- · Focus: proximity to KB sites
- Supports also corporate volunteering
- Donations 2022: 2.8 m€
- >400 projects in 2022 & >600 employees participated

Knorr-Bremse Global Care

- Globally active non-profit organization set up by Knorr-Bremse employees
- Focus: targeted long-term project partnerships in the fields of education & WASH (water, sanitation, hygiene) as part of SDGs
- Donations 2022: ~ 3 m€



Knorr-Bremse's Sustainability Management is externally recognized



For further information please consult Knorr-Bremse sustainability reports



Non-financial declaration 2022

Link

Sustainability Report 2022

Link

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Share data

Share data

Type of share	Bearer shares with no-par value	
Bloomberg ticker	KBX	
Reuters ticker	KBX.DE	
German security identification number (WKN)	KBX100	
ISIN	DE000KBX1006	
Shares outstanding as at December 31, 2018	161.200.000	

Bond Data

Corporate Bond of Knorr-Bremse AG

Security Identification Number	A2LQP5
International Securities Identification Number	XS1837288494
Issuer	Knorr-Bremse AG
Issuer ratings	A3/outlook stable (Moody's), A-/outlook stable (Standard & Poor's)
Volume	EUR 750 million
Term	7 years
Settlement	June 14, 2018
Maturity	June 13, 2025
Coupon	1.125% p. a.
Reoffer spread	1.188% p. a.
Listing	EURO MTF Luxembourg
Denomination	EUR 1,000
Applicable law	German law

Strong current rating: S&P (A-) and Moody's (A3)



Bond Data

Sustainability-Linked Corporate Bond of Knorr-Bremse AG

Security Identification Number	A30VPQ			
International Securities Identification Number	XS2534891978			
Issuer	Knorr-Bremse AG			
Issuer ratings	A3/outlook stable (Moody's), A-/outlook stable (Standard & Poor's)			
Volume	EUR 700 million			
Term	5 years			
Settlement	September 21, 2022			
Maturity	September 21, 2027			
Coupon	3.250% p. a.			
Reoffer spread	3.331% p. a.			
Listing	Regulated Market of the Luxembourg Stock Exchange			
Denomination	EUR 100,000			
Applicable law	German law			

Strong current rating: S&P (A-) and Moody's (A3)



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Glossary (1/2)

%	Percentage	CFO	Chief Financial Officer	ELC	Electronic leveling control
ABS	Anti-lock brake system	CKR	Czech Koruna	EOP	End of period
ACC	Adaptive Cruise Control	CNY	Chinese Yuan	ESG	Environment, Social, Governance
AD	Automated Driving	CR	Corporate Responsibility	ESP	Electronic stability program
ADAS	Advanced driver assistance systems	cvs	Commercial Vehicle Systems	EU	Europe, European Union
ADB	Air Disk Brake	D&A	Depreciation & Amortization	EUR	Euro
AEBS	Advanced Emergency Braking System	DE	Germany	FTE	Full-time equivalent
AG	Aktiengesellschaft (German: Stock Corporation)	DEI	Diversity, Equity and Inclusion	GAAP	Generally Accepted Accounting Principles
AM	Aftermarket	Dol	Date of Implementation	GBP	British Pound
BDM	Brake Distance Management	е	Expected	GDP	Gross domestic product
bn	billion	EAC	Electronic Air Control	GSBC	Global Scalable Brake Control
CAGR	Compound Annual Growth Rate	EBIT	Earnings before Interest, Tax	HQ	Headquarters
CAPEX	Capital expense	EBITDA	Earnings before Interest, Tax, Depreciation, Amortization	HSR	High-speed rail
CEO	Chief Executive Officer	EBS	Electronic brake system	HU	Hungary
CF	Cash flow	EGR	Exhaust Gas Reduction	HUF	Hungarian Forint



Glossary (2/2)

HVAC	Heating, ventilation & air conditioning	LDW	Lane Departure Warning	тсо	Total cost of ownership
IAA	International Automobil-Ausstellung (German: International Motor Show)	m	million	TPR	Truck Production Rate
IAM	Independent Aftermarket	M&A	Merger & acquisitions	UIC	International union of railways
iCOM	Intelligent Condition-Oriented Maintenance	OEM, OE	Original equipment manufacturer	US	United States
IFRS	International Financial Reporting Standards	OES	Original equipment service	USD	US Dollars
IN	India	OPEX	Operating expense	WC	Working Capital
IoT	Internet of Things	p.a.	per annum		
IPO	Initial Public Offering	PWM	Private Wealth Management		
JV	Joint venture	R&D	Research & Development		
КВ	Knorr-Bremse	ROE	Return on Equity		
KB2020	Knorr-Bremse 2020	ROS	Return on Sales		
KPI	Key Performance Indicator	RVS	Rail Vehicle Systems		
LCC	Life-cycle cost	TCMS	Train Control Management System		



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