

The AXTONE Group, with more than 80 years of tradition, is an expert in impact energy absorption technology for all types of rail vehicles. Thanks to the international character of the AXTONE Group, our solutions fulfil the requirements of the European UIC, Russian GOST and Chinese TB/T standards. Our ability to innovate and technical competences, together with our experience and willingness to follow the ever increasing requirements of our customers, improves the quality of our products and solutions. Our customers include companies from all over the world, representing both the passenger and freight sector.

As the expert in the field of impact energy absorption and metal springs, we offer our customers products using various technologies.

■ The buffers and CRASH elements from AXTONE effectively protect all rail vehicles as well as its passengers and cargo.

■ For our fluid elastomer (or so called visco-elastic) dampers which are used in central couplers, draw gears, Crash elements or side buffers, we use our unique patented fluid elastomer **KAMAXIL®**.

■ An alternative spring and damping system for buffers and draw gears can be proposed using our **EUROPAD®** solid elastomer inserts. Depending on the performance specifications, our products can also be equipped with **RING SPRINGS** or **OIL SHOCK ABSORBERS**.

■ AXTONE Group is the only manufacturer to use **hot extruded buffer housings** manufactured in one piece. The absence of any welded connections guarantees the highest quality and exceptional durability of our products.

■ AXTONE is in a position to be able to offer the lightest buffers and CRASH elements currently available on the market.

■ Once we know the intended purpose, the load factors and the space available, our R&D department adapts the construction of the **RING SPRINGS**, **TRAPEZOIDAL LEAF SPRINGS**, modern **PARABOLIC SPRINGS** and **COIL SPRINGS** with linear or progressive characteristics.

History:

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- 1925 Establishment of Keystone (Karl Georg) in Germany as a repair and maintenance company for rolling stock
 - 1992 Establishment of Kamax
 - 1997 JV formed in Russia to deepen local presence
 - 2000 Chinese JV formed at request of Chinese Government
 - 2000 Initial sales into the Chinese market
 - 2002 Introduction of service agreement with Polish Rail
 - 2002 Axtone enters a range of new markets, Ukraine (2003), Croatia (2006), India (2007), France (2007), and Turkey (2008)
 - 2005 Introduction of crash buffers as a new product underpin Axtone's position as innovation leader
 - 2006 Merger of KAMAX S.A. and Keystone Bahntechnik GmbH
 - 2007 AXTONE Group is established
 - 2012 AXTONE Group acquires Langen & Sondermann

Products/service:

Passenger sector: Springs and buffers as well as **pulling devices** for classic **passenger stock**, **CRASH** components for modern passenger rolling stock.

Freight sector: Springs, pulling devices and buffers with almost any absorption system – specifically designed for all types of freight carriages.

CRASH buffers designed for tank wagons transporting hazardous goods, possessing the TSI certificate of approval.

Locomotives: Buffers with or without **CRASH** technology and **pulling devices**.

Primary and secondary **coil springs**.

Railway infrastructure: The SARPO system is designed for the regulation of car speeds, rolled from marshalling yards, as well as to freely rolling cars in other manoeuvre areas of railway stations or railway sidings.

After- market services: We provide include a wide range of activities, such as: revision, modernization, delivery of spare parts as well as the repair of buffers and pulling devices.

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