

ALBA Group: Portrait



ALBA Group services

Unique capability portfolio

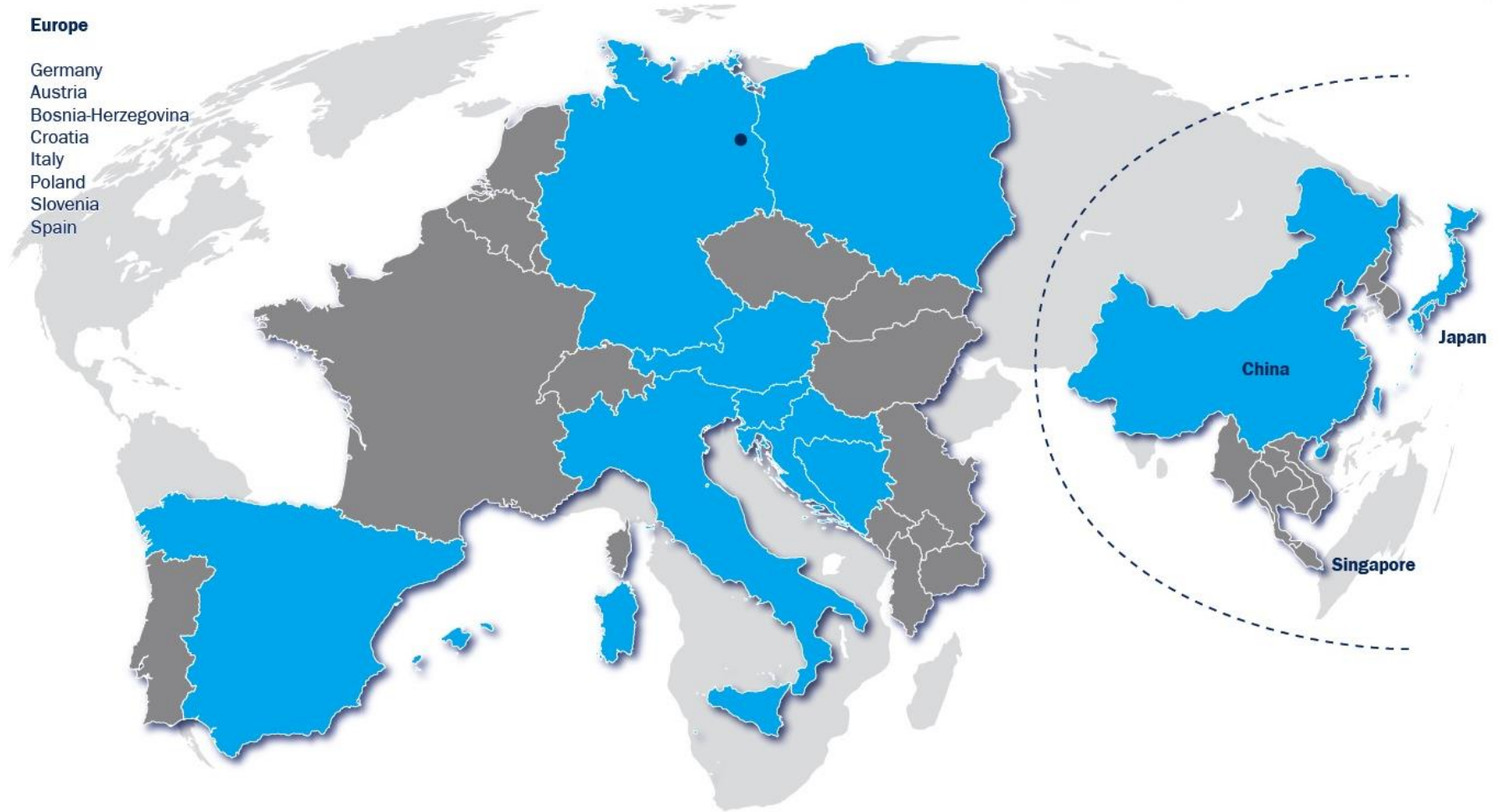


ALBA Group worldwide

Locations

Europe

Germany
Austria
Bosnia-Herzegovina
Croatia
Italy
Poland
Slovenia
Spain

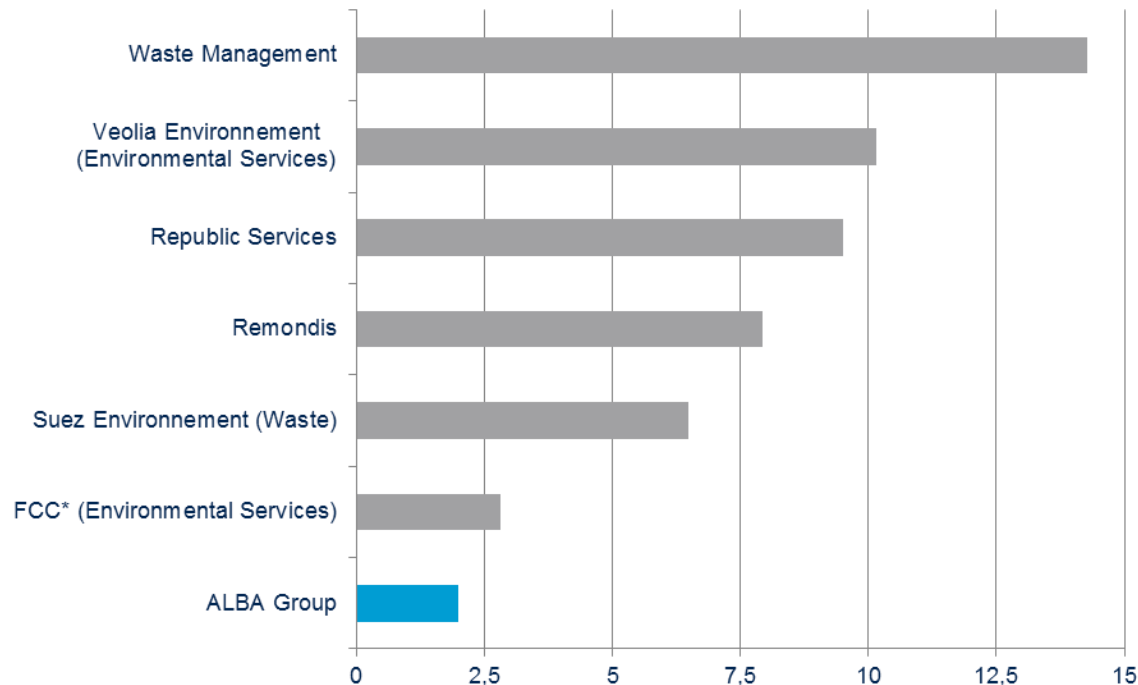


ALBA Group at a glance

Global ranking

- In Germany in the TOP 2 on the waste management market
- Worldwide in the TOP 10

Companies worldwide / 2019 turnover in EUR bn



* Formento de Construcciones y Contratas

ALBA Group plc & Co. KG

Board of Directors

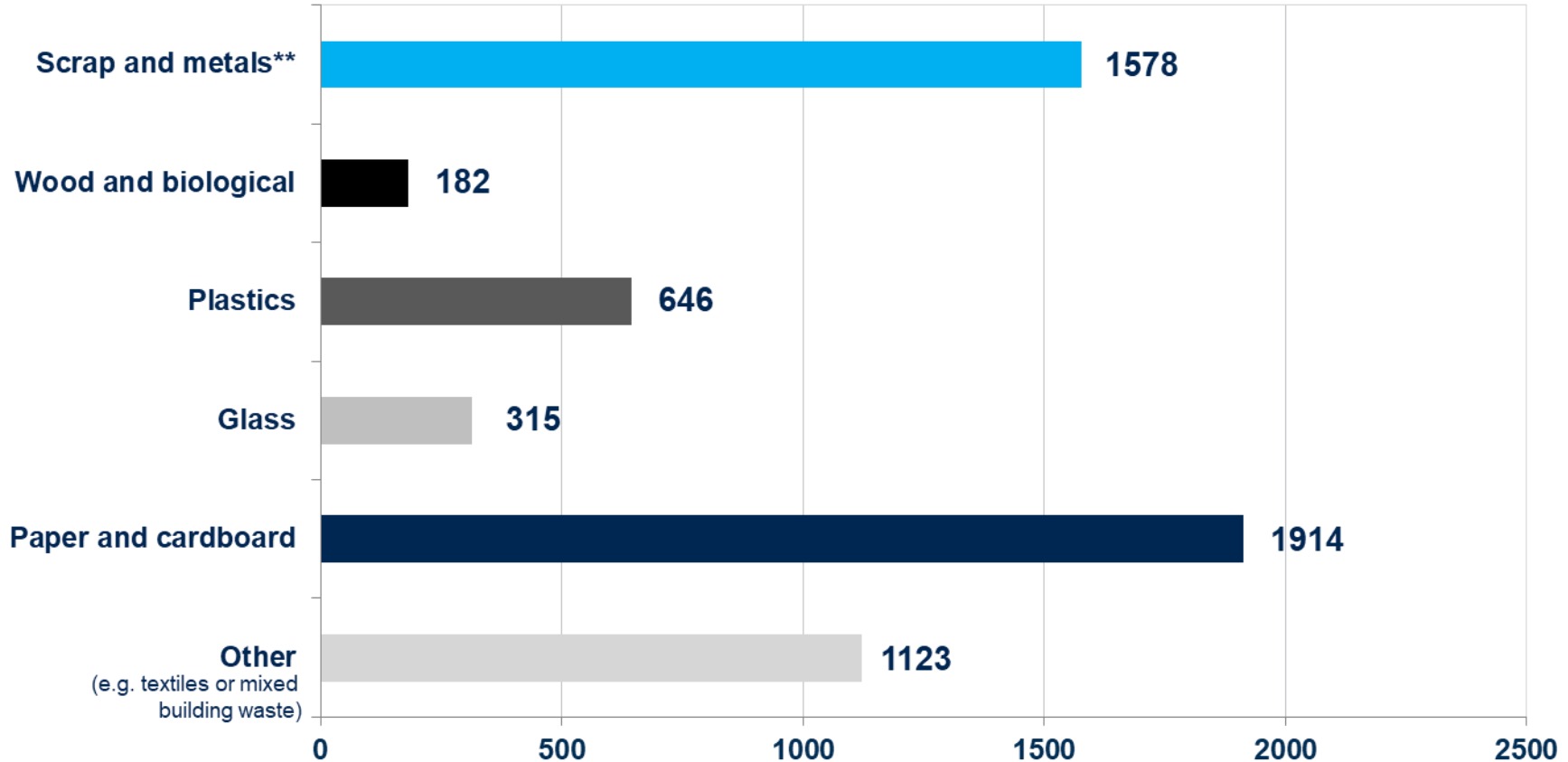


Dr Axel Schweitzer
Owner / CEO

Dr Eric Schweitzer
Owner / CEO

ALBA Group tonnages*

Total recycling raw materials: approx. 5.8 million t



* Reference year 2019 / Main fractions, in thousand tonnes

** including electronic scrap/waste

ALBA Group recycling raw materials, main fractions: approx. 5.8 million tonnes

Our Business Areas

Waste Avoidance

Reusable pooling systems

Individual waste avoidance solutions for retail and industry:

- Based on **full analysis of customer requirements**, we develop optimised logistics solutions and reusable pooling systems throughout Europe. We ensure **cost-efficient control** of inventories and logistics channels for reusable transport packaging in the customer supply chain.
- Our products are tailored to customer needs and made of **resource-friendly, single resin regranulate** for maximum ruggedness and durability.



Innovations

The future of recycling

Discarded packaging and plastics are **raw materials**. And they can be used for more than just new packaging.

- Our unique “**recycled-resource**” process produces high-quality plastic granulate. Recycled-resource is safe, green and efficient, for **economic and environmental added value**.
- Our **recycled plastic Procyclen** shows the way forward in **sustainability**. Based on individual analysis of customer needs, we develop smart, flexible applications for Procyclen, which in quality **matches the properties of new material**.



Steel and Metal Recycling

New life from scrap

Wherever **scrap metal** is generated – whether the source is residential or industrial – ALBA Group companies collect raw materials for their customers.

Scrap is sorted and processed at ALBA's **own facilities** using industrial shears and shredders. We use high-performance separation methods to produce furnace-ready scrap that can be traded on the world market.

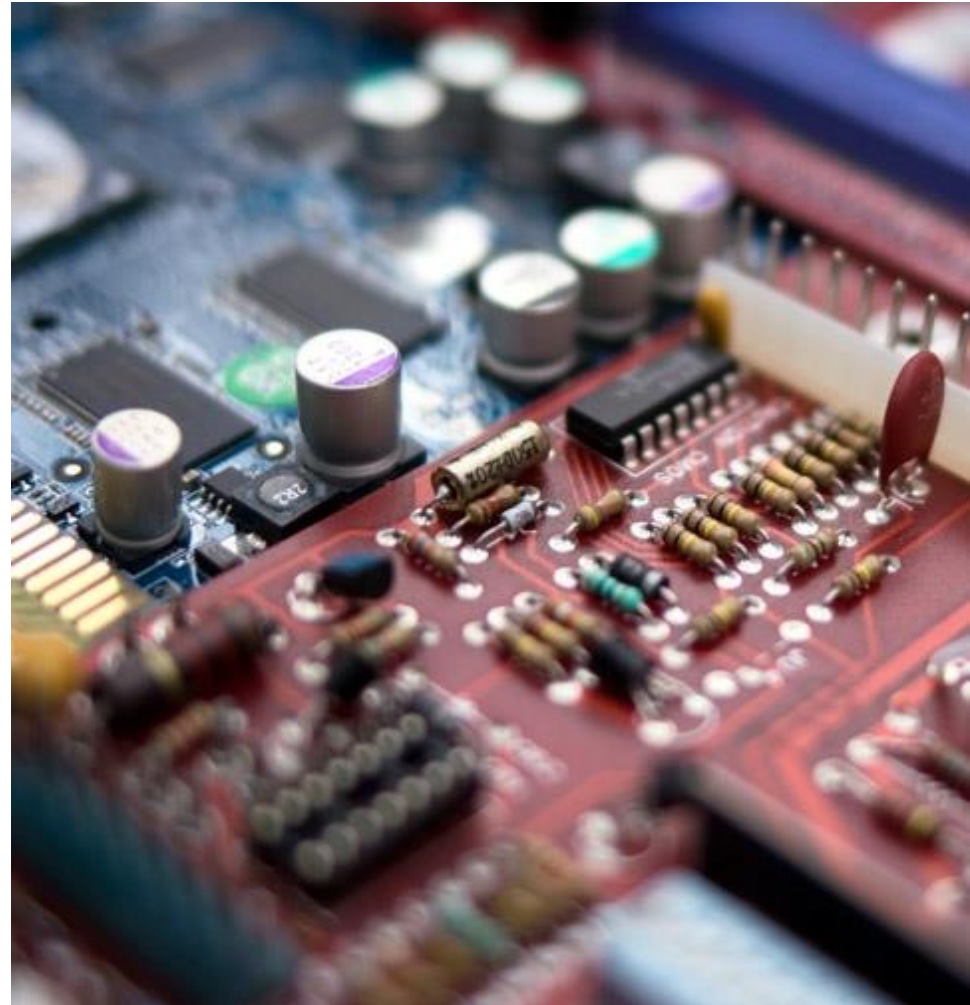


Electrical and Electronic Scrap

Too precious to be simply disposed

With a 25 percent market share, the ALBA Group is among Germany's best-known recyclers of waste electrical and electronic equipment (WEEE).

- **Nationwide take-back** for WEEE from commercial and municipal collection schemes
- Full **registration and reporting service**
- Processing of the various WEEE categories in ALBA's **own specialised facilities** where hazardous materials are safely separated and recyclables recovered for reuse in production.
- The ALBA Group's take-back system for WEEE is based on **many years of experience** in the operation of complex take-back schemes.



Raw Materials Trading

Bundling and international arbitrage

The ALBA Group is among the leading global traders of recycling raw materials (waste paper, plastics and scrap).

By combining tonnages across Europe and marketing **specific qualities** in large quantities to manufacturing industry in Europe and Asia, we make use of **low logistics costs** to generate high market prices which we pass directly on to customers.



Product Reprocessing

Customer-oriented collection and recycling systems

We organise **reliable collection and recovery schemes** for sustainable, custom-tailored reprocessing:

- Taking back of **lithium-ion batteries**: safe packaging, transport and recycling of used industry batteries
- Collection system for **printer cartridges**: taking back, sorting and marketing of empty, ready for use printer cartridges and toner cartridges, e.g. with the “Collection Dragon” (*Sammeldrache*) in favour of schools and nurseries
- **IT and communication devices**: logistics, purchase, data deletion and marketing from one source: purchase of used IT and communications devices and organisation of the whole reuse process



Packaging Take-Back System

More time for your core business

- Licensing of used **sales packaging** and high-quality recycling via **Duales System Interseroh (DSI)**.
- Online licensing with www.lizenzero.de
- Market leader in organising and coordinating the collection of transport packaging from retail and commercial sector.
- One-stop solution for **single-use deposit** containers.
- No-charge acceptance of used **paper sacks** at some 350 certified take-back and collection points
- Full-service consulting for **integrated packaging management**



Packaging Optimisation Made for Recycling

We make packaging recycling friendly:

- Testing of the recycling compatibility of packaging within the after-life-process: registration, analysis and evaluation of the recycling compatibility of diverse packaging materials by our experts
- Development of **recommendations for action**, individually tailored to the product portfolio
- **Scientific assessment method** developed together with the bifa environmental institute, finally reviewed by the experts of the Fraunhofer Institute for Process Engineering and Packaging IVV
- Packaging which is “very good” recyclable receives our **seal “Made for Recycling”**



Waste Management

Your reliable partner

We manage all types of waste, taking on full responsibility for collection, transportation and environment-friendly disposal.

Services include:

- Waste management, waste balance analysis, management plans
- Implementation of internal logistics systems for customers and production integrated processes
- Implementation of industry schemes
- Demolition services
- File and data medium destruction
- Disposal-related services
- Online ordering of disposal services via ecoservice24.de



Hazardous Waste Management

Safe and environment-friendly

The ALBA Group provides **full environment-friendly service**:

- From professional, fully compliant disposal of hazardous waste
- To custom solutions for other types of waste and recyclables
- Added value service with **ALBAsigner**, our own proven **digital signature system for hazardous waste**



Facility Services

Full service from a single source

ALBA Group **Facility Services** provide an efficient, digital, process-driven service package nationwide. Beside facility and property management we provide as well quarter and waste management:

Property Management

- Commercial property management
- Technical property management
- Object accounting

Facility Management

- Technical facility management like object management, restructuring or maintenance services
- Infrastructural facility management like interior cleaning, caretaker service or open space maintenance
- 24 hour, 365 day service and call centre



Our

Technology

Technology

High-tech sorting



At Marl (North-Rhine-Westphalia) we operate **Europe's most modern sorting facility** for lightweight packaging and other recyclables from dual system collection schemes. We also operate similar facilities in Berlin, Braunschweig, Leipzig and Walldürn.

Thanks to **state-of-the-art digital technology ("Sorting 4.0")** the plant processes lightweight packaging waste from roughly 6.4 million people, meaning about 200,000 tonnes in total per year. At the end of the process chain are materials with the highest level of purity that are made available to industry and replace raw materials from primary sources that are running low.

Technology

Mechanical recycling of plastics



At Eisenhüttenstadt, we operate an ultra-modern facility for full mechanical recycling of used plastic packaging. The system first removes **unwanted materials** such as paper, wood, glass and metal. In a **processing method developed by ALBA**, the plastics are then converted into high-quality **granulate to customer specifications**. The granulate is used as a recycling raw material in the plastics processing industry, where it is incorporated into new products such as new packaging, creating a closed loop.

Technology

Processing of residual waste to “green coal”



In Berlin, we have developed **two mechanical-physical stabilisation plants (MPSs)** to produce substitute fuels from residual waste. These are operated in cooperation with the City of Berlin cleaning services. Using this **environmentally most innovative process for the treatment of residual waste**, we recover up to 98 percent of waste – and save large quantities of CO₂ equivalent. We turn the waste into substitute fuels, so called “green coal”, with a choice of densities (pellets and fluff) for energy recovery in cement works and power stations.

Technology

Processing of electrical and electronic equipment according to the “zero waste” target



In the German states of Baden-Württemberg, Rhineland-Palatinate and Bavaria, we operate several specialised facilities for processing different types of **waste electrical and electronic equipment (WEEE)**. Our services include combined mechanical and manual processing of WEEE for **safe treatment of hazardous substances** and maximum recycling rates, the use of **special separation technology** and multiple separation stages to divide complex combinations of plastics and metals into their constituent materials, and production of recyclable granulate at constant high quality.

Technology

Sorting of paper and board



In Berlin, we operate a **paper and board sorting plant** to produce a range of different fractions (qualities) from residential collection schemes. We use the latest sorting systems such as near-infrared technology to attain a resource efficiency of 98 percent. We separate three main fractions: Mixed paper and board, supermarket corrugated paper and board, and sorted graphic paper for de-inking. The latter can be marketed loose or in bales.

Our clients

Reference clients (selected)



ArcelorMittal



Our Responsibility

Sustainability

Recycling for climate and resources protection



**THANK YOU
for saving CO₂ !**

Recycling is a **major factor** in **protecting the climate and resources**:

- By our activities in 2019, we achieved **verifiable savings of 4.2 million tonnes of greenhouse gases** compared with primary production.
- This corresponds to approx. **one per cent of the overall German CO₂ savings** in direct comparison to the annual emissions of the year 1990 to 2019 or the positive annual impact on the climate of about **59 million trees**.
- At the same time our recycling activities in 2019 saved **32.3 million tonnes of primary raw materials**.

Promoting Young Talent

Creating perspectives for the future



Training is a key issue for the ALBA Group and notably takes place through our three-stage integrated training programme. This consists of **cross-company training** within the companies making up the ALBA Group.

We also invest in training young managerial talent with a range of **combined work-and-study degree course**.

Our **trainee programme** targets young graduates and lays the foundation for a career leading into management at ALBA.

Sponsorship

A winning team: ALBA Group and ALBA BERLIN



Since 1991, we have been the **main sponsors** of a leading basketball club which bears our name, ALBA Berlin Basketball. The ALBA Group owns 75 per cent of ALBA BERLIN Basketballteam GmbH. **The team's track record speaks for itself:**

- German champions nine times: 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2008 | 2020
- German cup winners ten times: 1997 | 1999 | 2002 | 2003 | 2006 | 2009 | 2013 | 2014 | 2016 | 2020
- First German team to win the Korac Cup in 1995
- Winners of the BBL Champions Cup: 2008 | 2013 | 2014
- Vice Champions in the Eurocup 2010

ALBA Group Contact Information

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ALBA Group

the recycling company