



PRINZHORN GROUP HUNGARY

Do you know where the great majority of **selectively collected paper** ends up? Naturally, with us. And **we recycle 100%** of it.



Prinzhorn Group Hungary a strategic cooperation partner of the Hungarian Government

Net sales revenue (2019)	EUR 429 million/year
Value of exports (2019)	EUR 239 million/year
Directly employed headcount	1250
Indirectly employed headcount	3000
Production investments since 1990	EUR 600 million

The foundation of **Hamburger Hungaria Ltd.** was an important **milestone** in the production and product portfolio development strategy of the Prinzhorn Group. Our Austrian parent company has been present in Hungary as a paper-based packaging manufacturer since 1990, and has invested about EUR 600 million in creating production facilities here during these 30 years. Within the framework of these projects, in an investment amounting to some EUR 260 million under the aegis of Hamburger Hungaria Ltd. at the end of **May 2009**, the Group commissioned a modern, high-capacity paper machine utilizing world-class manufacturing technology alongside its already existing paper machine in Dunaújváros.



HAMBURGER HUNGARIA

Hamburger Hungaria Ltd. is a leading brown containerboard paper manufacturer in Europe. As the largest waste recycling unit in Hungary, it manufactures around 700,000 tons of containerboard paper annually, mainly from domestic sources and using waste paper exclusively as its raw material. The two paper machines of the Company recycle about 770,000 tons of waste paper a year; and consequently the facility can be regarded as **the most significant unit of environmental protection in Hungary.**



PRINZHORN GROUP HUNGARY



OUR PRODUCTS

Our specialties:

Light weight medium and testliners with low gsm mass

AustroLiner 3 Light	90-115 g/m ²
AustroWelle Light	80-90 g/m ²

Testliners

AustroLiner 2	120-135 g/m ²
AustroLiner 3	120-170 g/m ²

Medium liners

AustroFluting Plus	110-175 g/m ²
AustroFluting R	110-150 g/m ²
AustroWelle	100-175 g/m ²

Schrenz paper

AustroSchrenz	100 g/m ²
AustroSchrenz Light	90 g/m ²

TECHNOLOGICAL PARAMETERS



210,000 tons	annual production	490,000 tons
432 cm	net width	780 cm
max. 950 m/min	max. machine speed	max. 1500 m/min
90 - 175 g/m ²	square metre mass	80 - 150 g/m ²

The fundamental objectives of the Company's production activity are defined as to satisfy customer needs to the highest standards, to ensure employees' wellbeing, and to provide energy-efficient operation, as well as to undertake consistent responsibility for society and the environment.



ECONOMIC EFFICIENCY, SOCIAL COOPERATION

- 2,000 tonnes of paper produced daily.
- Recycling of waste paper materials (770,000 tonnes/year) exceeding the quantity collected in Hungary (450,000 tonnes/year).
- 80% of sales made up by exports.
- Holder of the "Investors of the Year 2008" award.
- One of the largest containerboard paper manufacturing facilities in Europe.
- Technology leader – production, environment protection, safety.

As a responsible company, Hamburger Hungaria Ltd. is well aware of the fact that taking on a social role is indispensable for its successful environmental and social integration. With its activity it significantly contributes to the fulfilment of Hungarian waste management objectives. Hamburger Hungaria provides **outstanding support** to the continuous efficiency **improvement of Hungarian selective waste collection** and is ready to domestically process the surplus raw materials collected in this way.

The Company's **waste paper-based production technology** offers an especially environment-friendly alternative for Hungarian society, as in this way paper does not end up in landfills or waste-incinerating furnaces, but returns to the cycle of the economy in the form of a product representing **high added value.**

The company's economic and social importance is not limited to job creation and environmental protection. Through its sponsorship activities and the use of its facilities, it facilitates the operation of cultural, educational and healthcare institutions, non-profit and sporting associations, and organisation of the most significant regional events, constituting in this way an almost indispensable part of the life of Dunaújváros as a city.



POWER PLANT



The latest large-scale investment of our Company is the **power plant** that was built and commissioned in 2016 with an expenditure amounting to EUR 150 million. Previously the energy supply of the paper mill was based on various sources: on industrial steam either purchased or produced by natural gas and biogas-fired boilers, as well as on electrical power obtained from the national grid. The aggregate energy production efficiency of these sources was about 50%, and their prices typically exceeded those paid by paper mills operating in neighbouring countries. As the possibilities for reducing energy use increasingly narrowed - **the amount of energy used for producing a unit of product having been reduced by half by the Company over 20 years** - the Company decided to build a power plant of its own. With this, it could ensure a rate of around **70% energy production efficiency** by applying state-of-the-art technology and through the related heat and electrical energy production.

Our products are manufactured from waste paper which contains about 7-8% of materials not suitable for paper production (plastic foils, adhesive tape, packaging materials not manufactured from paper).

Another aim of building the power plant was **to use this type of waste from the paper mill as an energy source.**

The power plant is **able to satisfy the total heat and electrical energy demand of the Dunaújváros paper mill** (730 GWh of heat and 280 GWh of electrical energy annually). The outgoing flue gas is typically invisible to the eye and its pollutant content is significantly lower than the prescribed limit value, or often merely a fraction of that.



WASTEWATER TREATMENT PLANT



Our paper mill has its **own wastewater treatment plant**, which we continuously update to meet the increasingly strict requirements and expectations at any time.

Our outflowing water (15,000 m³/day) is currently treated via a two-step (anaerobic and aerobic) biological decomposition technology and **biogas is produced** from the pollutants found therein, which can be efficiently used for energy purposes. The heating value of the biogas thus produced is 58 GWh annually, which is the equivalent of the natural gas required for the **heating and hot water supply of 5,000 households.** Since 2016 about two-thirds of the biogas has been used for producing electrical energy, or so-called green electricity, in our small motorized biogas power plant installed for this purpose. The remaining quantity is used in our boilers as fuel.

Through the continuous development of the water management system, **the amount of water used for producing 1 tonne of paper has decreased to one seventh of the original value over 25 years.** As a result, the concentration of pollutants measured in the water circulating in production is many times higher than the previous value; however, the quality of the water channelled back into the Danube is significantly better, more favourable than the prescribed limit value, and complying in every respect with the requirements set by the best available technology (BAT).



ENERGY EFFICIENCY

ECONOMIC EFFICIENCY AND SOCIAL COOPERATION



VISITORS GUIDE

We wish you a productive time at our facility!

Hamburger Hungaria Ltd.

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