

Processing of Waste to Secondary Fuel

A large, 3D green recycling symbol (three chasing arrows forming a triangle) is superimposed over a blue world map. The symbol has a gradient from light green to dark green and a shadow effect.

Welcome to the KAHL Group

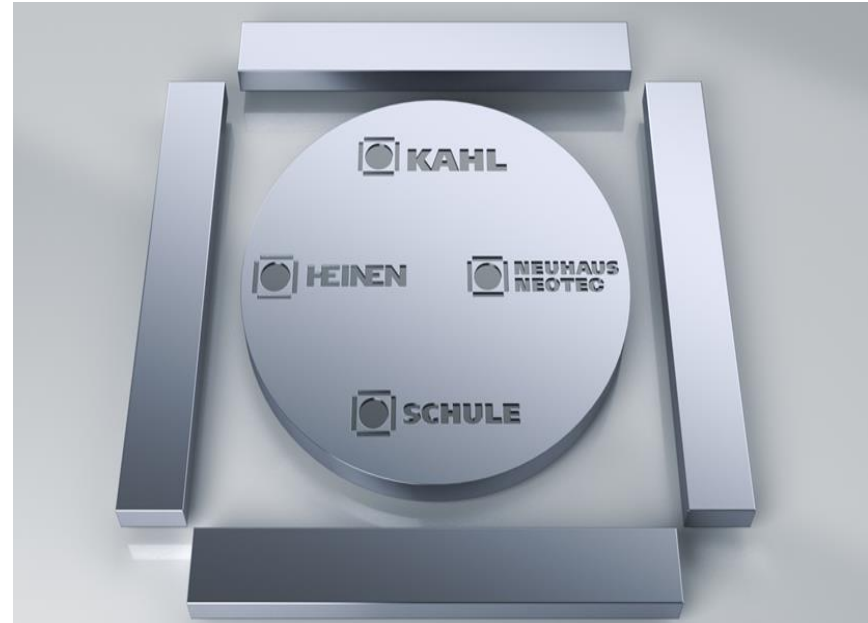
For more information please visit

www.akahl.de

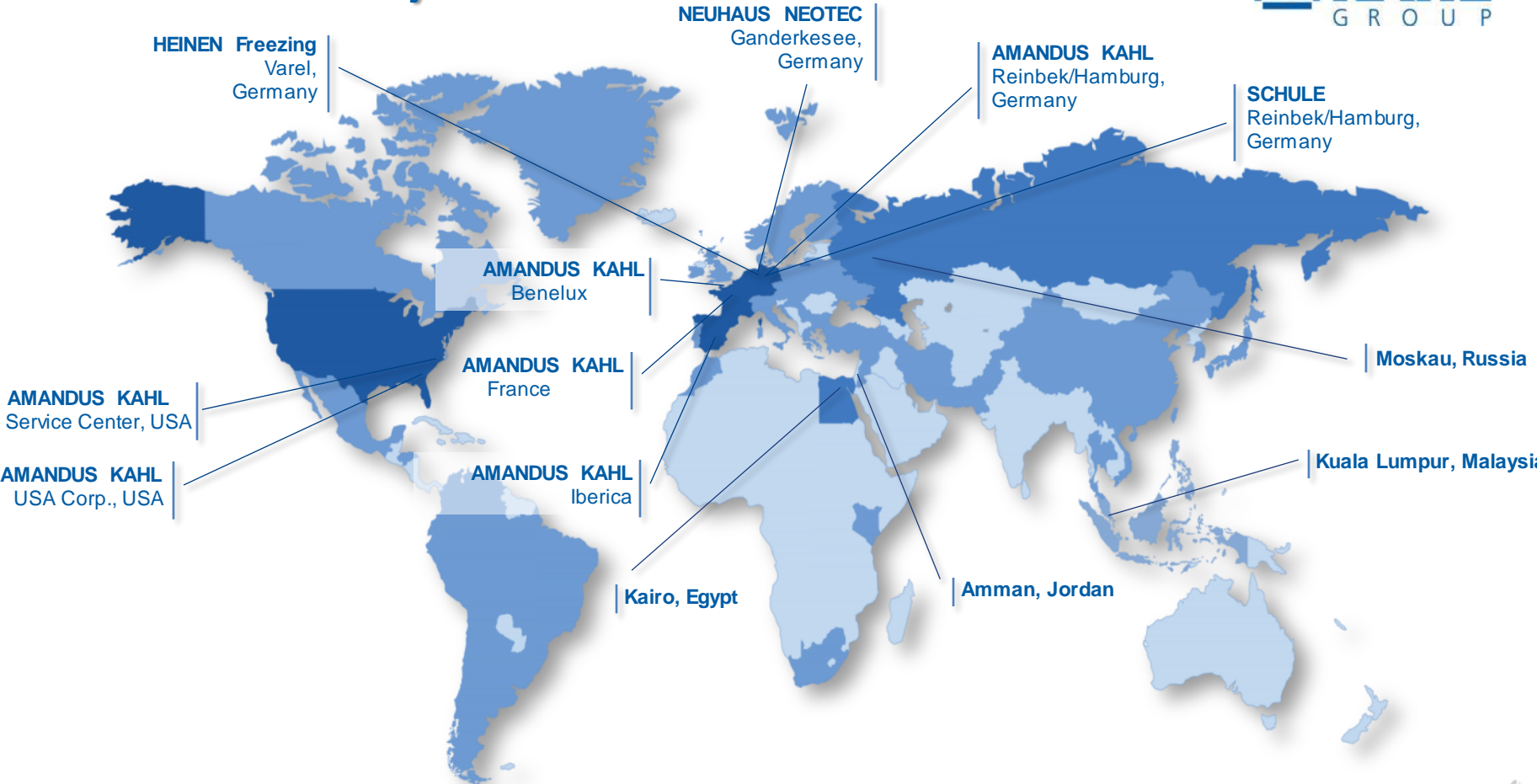


Together we are strong

- Founded 1876
- Independent medium-sized companies
- Synergy: Research, design, development
- More than 800 employees
- Agencies world-wide



A Global Player



Made in Germany

- **Headquarter in Reinbek,
near Hamburg**
- **20.000 m² production and
office area**
- **50.000 m² company area with
11 production halls**
- **Certified according to
DIN EN ISO 9001-2015**
- **German Engineering**
- **Latest Recycling Technology**



In-House Production



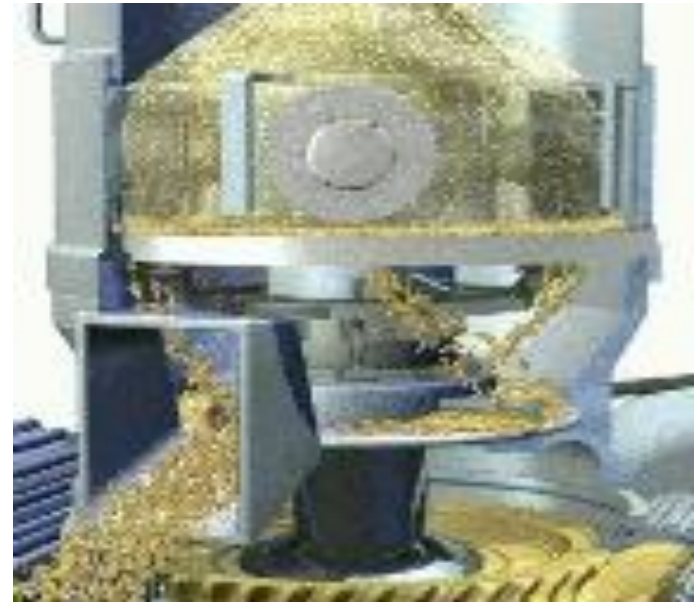
In-House Production: Hardening plant



Processing of waste to secondary fuel

The basic principle of the flat die pelleting press

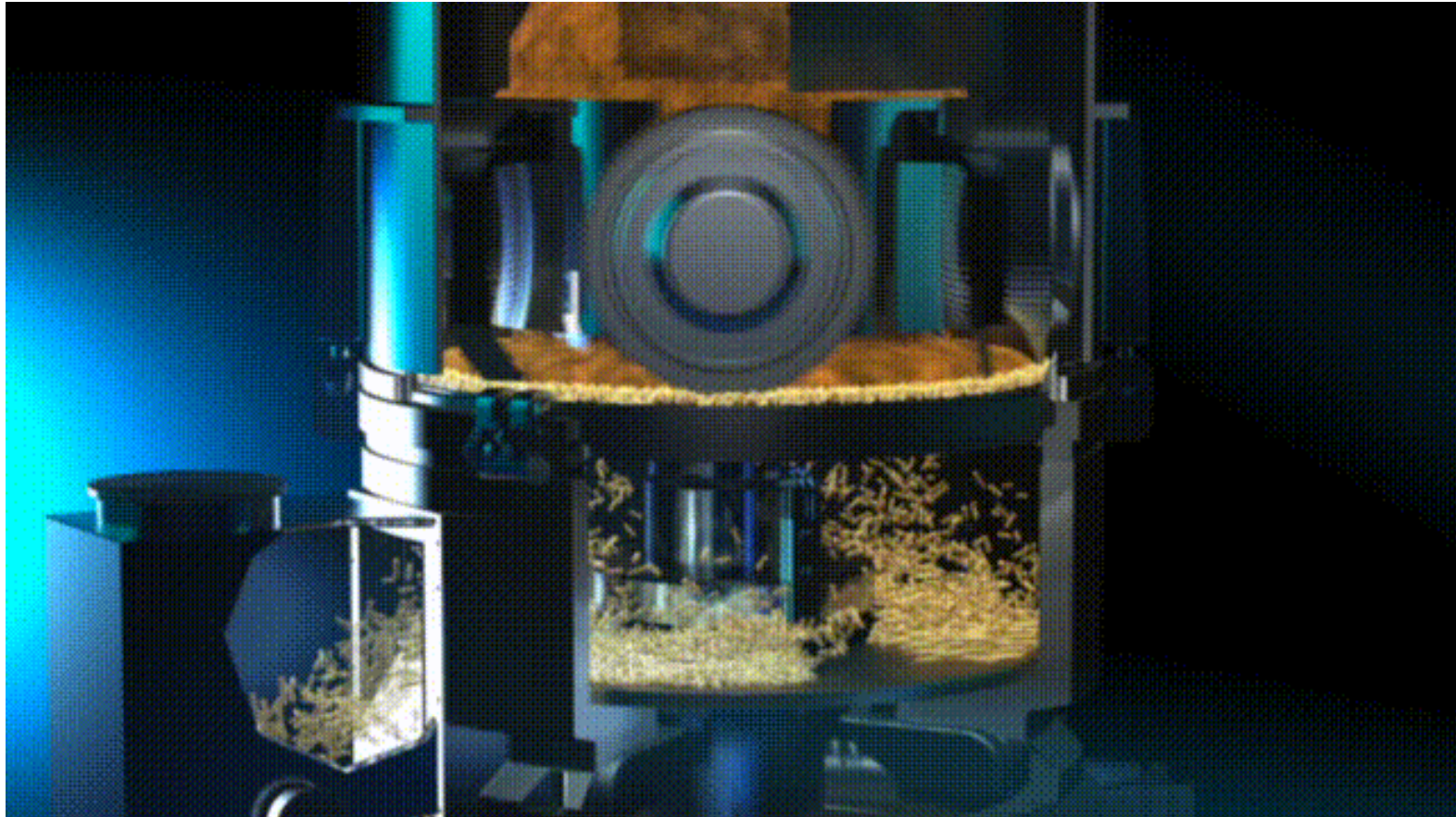
- For pelleting (compaction or slight pelleting of bulk materials)
- For granulation (crushing / grinding of lumpy products)



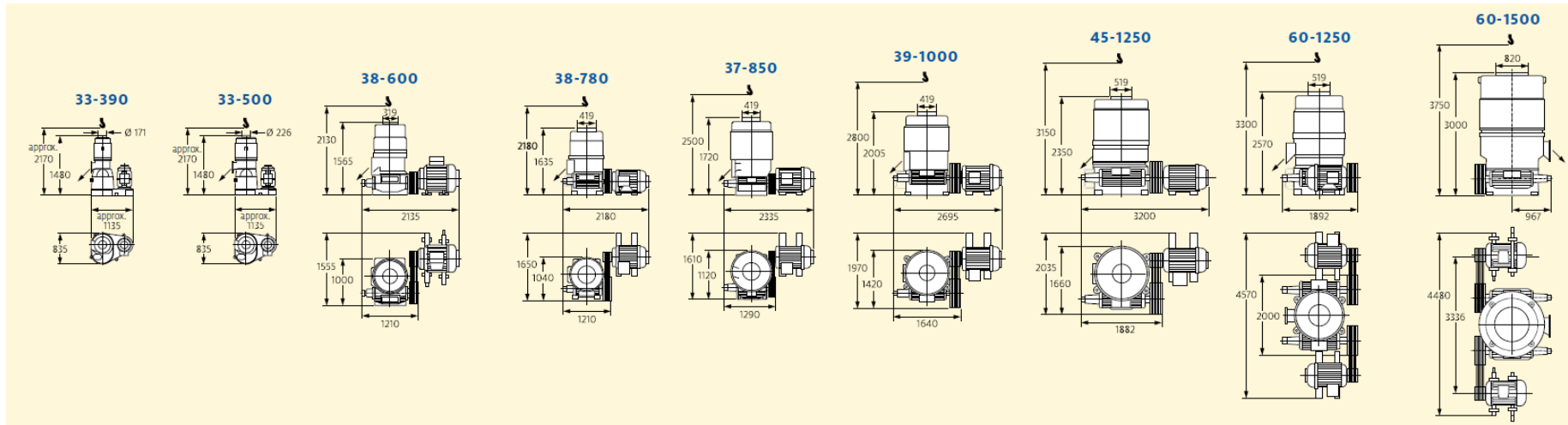
Processing of waste to secondary fuel



Operating principle of the KAHL Flat die Pellet mill



Sizes of Flat die Pelleting Press



Drive motor: from 3 kW to 630 kW

Die size: from 175 mm to 1500 mm diameter



Flat die pelleting press designs



Up to 45 kW:
Integrated v-belt
drive



Up to 315 kW:
Single external v-belt drive
+
Integrated worm gear



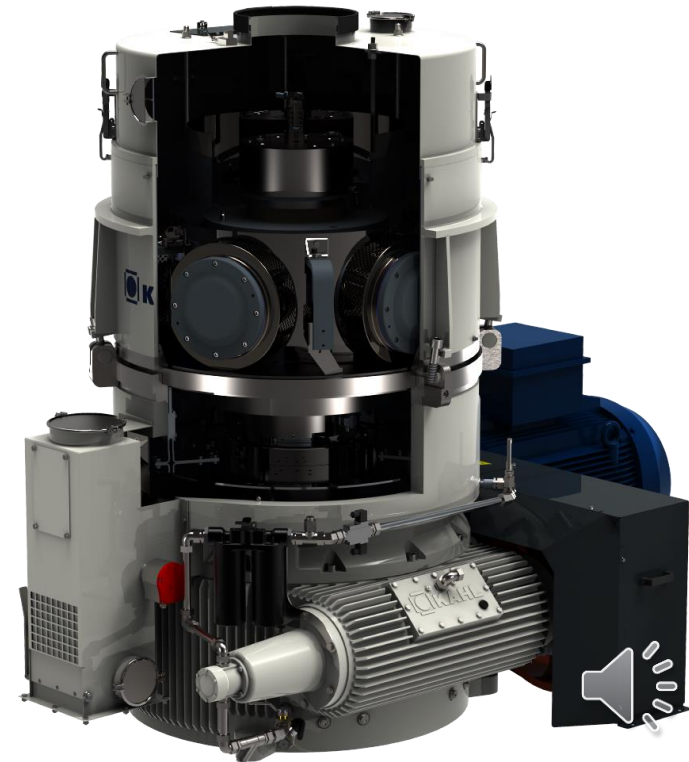
Up to 630 kW:
Double external v-belt drive
+
Integrated worm gear



Processing of waste to secondary fuel



- Processing of valuable alternative fuel from pre-sorted solid waste fractions
- Fluff or rigid pellets, depending on downstream application
- Processing of various fractions possible:
 - Domestic waste and light fraction waste
 - C&I (Commercial & Industrial) waste
 - Mixed plastic waste
 - Shredder light-fraction from car recycling
 - Reject from paper recycling
 - And many more...



Processing of waste to secondary fuel

Various product qualities are possible



Raw material



compacted / Fluff



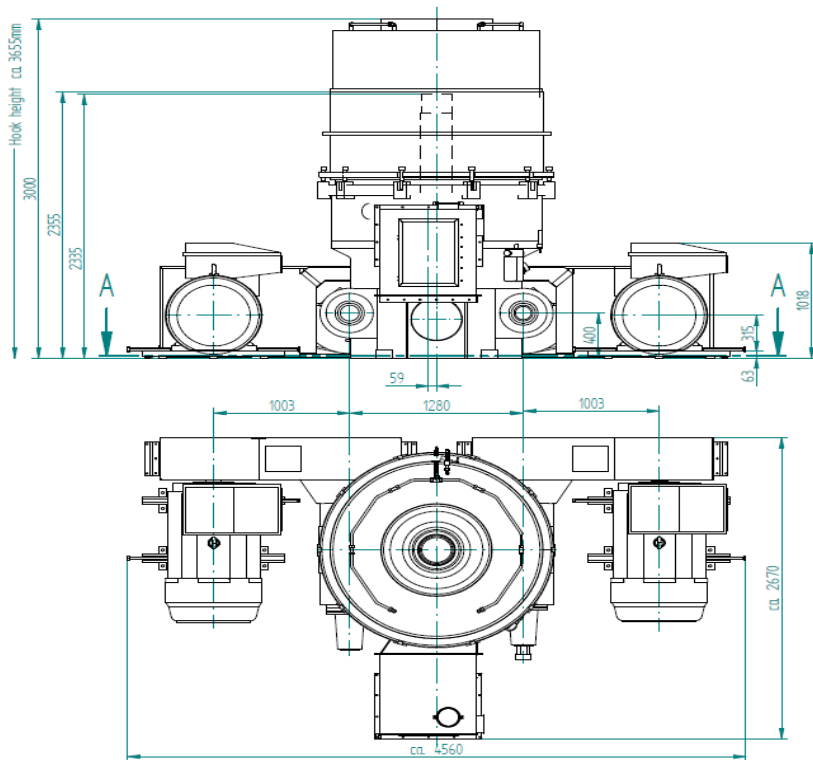
Rigid pellets



Soft pellets



Kahl Pelleting Press in Waste Processing



28 Installations in Germany

16 Installation World Wide

More than 100 units commissioned

Qualified and successfully sold to
Waste Management USA in 2015

Low operation costs due to sandwich die
High availability due to exchangeable roller
head

Gap and Process control – Distamat

Insensitive against process disturbance



ALBA (MPS) Berlin – Reinickendorf/Pankow



 Transfer

 Processing

 Drying

 Screening

 Compacting



Output:

- 210,000 t/a pellets and/or fluff

KAHL Type 39 – 1000 Pelleting Press:

- Quantity: 2 x 6 Presses
- Capacity: 2.5 t/h Hard pellets p.p.
8 t/h Fluff p.p.

RDF Combustion in:

- Coal-fired power plant
- Cement kilns



Waste Recycling Plant Helector, Sofia/Bulgaria



**Recycling & Processing of...
Municipal Solid Waste /
Dried-Stabilat®**

Capacity: 85,000 t/a resp. 16 t/h

Input: Dried-Stabilat®

Output: Soft pellets/fluff



Waste Recycling Plant Metrostav, Karlsbad, Czech Republic



Recycling & Processing of

**RDF, RDF Bio fraction,
mixed plastic waste**

Capacity: 54,000 t/a

**Output: Hard pellets for
gasification**



Processing of paper reject and CLO waste



Drying of secondary fuels

Processing of paper reject

Annual capacity: 35,000 t/a

Input moisture: 45%

Output moisture: 10%

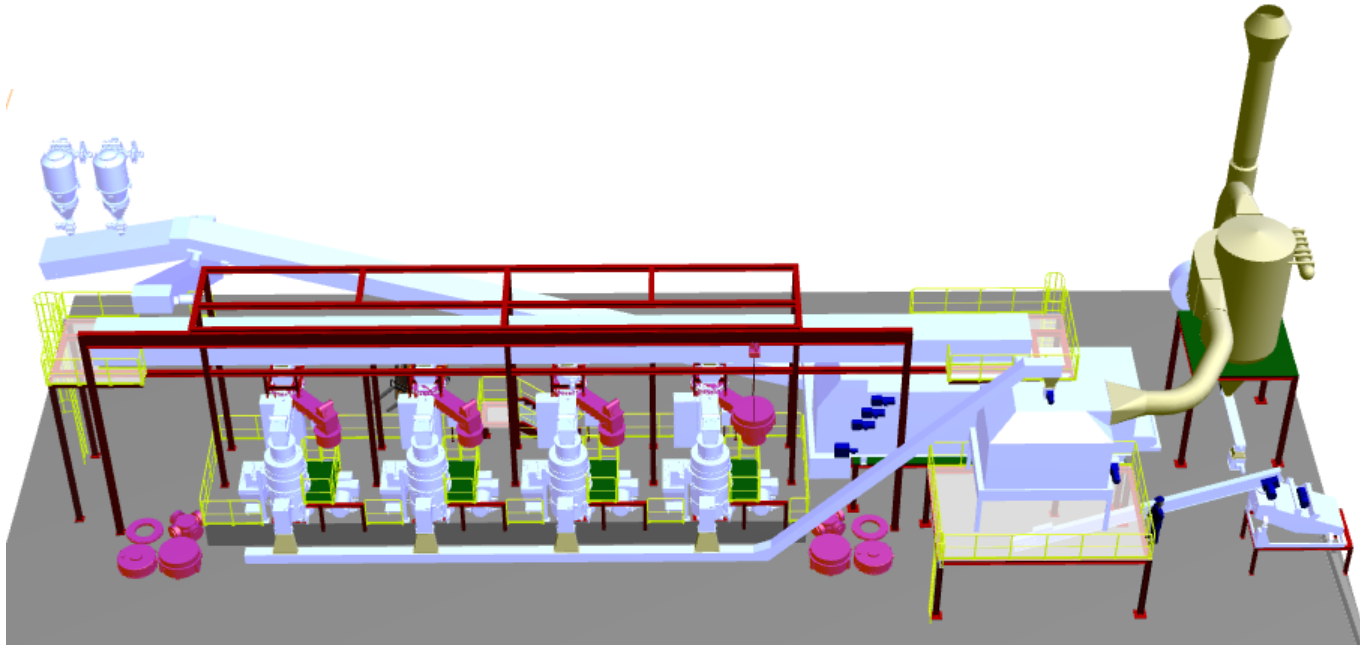
=> RDF combustion in cement kilns



Mixed Plastic/Paper Waste Recycling Plant



Blue River Recycling, Papenburg/Ems, Germany





KAHL
GROUP



Mixed Plastic/Paper Waste Recycling Plant



Plant capacity: 12 t/h
Input: Mixed plastic waste
(MK350/352),
shredded & dried
Paper (PPK 550)
Input bulk density: approx. 90 kg/m³
Input particle size: approx. 30 mm

4 Pellet mills type 45-1250

Output: Hard/rigid pellets Ø16mm

Output bulk density: approx. 310 kg/m³

Pellets designed for pulverization and
Co-Firing in main burner



Mixed Plastic/Paper Waste Recycling Plant



Satisfied Kahl Customers



SERVICE | MIT SYSTEM



Kahl and partners at your service



[NEWS](#) [MACHINES](#) [INDUSTRIES](#) [SERVICE](#) [ABOUT US](#) [CAREERS](#) [EVENTS](#)



23.09.2021
Akahl

New Brochure on Pellet Mills for the Recycling Industry

AMANDUS KAHL supplies machines and plants for many fields of the recycling industry. The new brochure reveals which ones exactly!

[Read more](#)



14.09.2021
Akahl

Out now: "KAHL on Air!"

Finally, the time has come - AMANDUS KAHL launch their podcast "KAHL on Air" with five episodes!

[Read more](#)



13.08.2021
Akahl

Showroom for the Biomass Industry

The new KAHL showroom has been extended by another room on the topic of biomass. Click through and find out more about the specific machines!

[Read more](#)



Portugal

Erich Bergner Lda.

Mr. Rudolf Bergner

Praca de Figueira 18-4 Dto.,
1100-241 Lissabon (PORTUGAL)

Tel: **00 351 21 342 90 26**
Mobil: **00 351 91 72 90 447**
Fax: **00 351 21 347 06 46**

E-Mail: erichbergner@erichbergner.pt

www.akahl.com

Thank you very much for your attention!

