

# OUR COMPANY



## PROCESS TECHNOLOGY

Kölleermann GmbH

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# -COMPANY

- Almost 50 years experience in business
- 65 experienced employees from which most of them work here for more than 10 years
- Plant-laying, sales, engineering, project management, design, manufacturing and service is done in-house
- Customer oriented solutions, 100% tailor-made acc. to customers requirements
- Located Adenau, in the Eifel region in western Germany, 60km south of Cologne (Köln) and 45km west of Coblenz (Koblenz)
- Production area approx. 4.800m<sup>2</sup> with extended storage capabilities on our premises for intermediate storage of crates



# -HISTORY

- 1965: Founding of the company named „Maschinenfabrik Adenau
- 1978: Buyout of the company by its (subsequently) long-time owner Anton J. Köllemann as well as entering into the field of screw-heat-exchanging.
- 1988: Renaming to A.J. Köllemann GmbH
- 1996: Worldwide commercialization of further developed process components like screw-heat exchangers for contact-drying.
- 1999: For reasons of age, the long-term owner as well as name patron Anton J. Köllemann transfers the management to Dipl. Ing. Hans Josef Blumenkamp.
- 2002: Realization of an research project: „Minimization of ecotoxic heavy-metal composition in wooden ashes“.



# -HISTORY

- 2003: Expansion of the testcenter for execution of experiments with all kinds of bulk-solids of our customers.
- 2004: Achievement of the ASME-Certificate for the production and design of pressure-vessels acc. to the „ASME Boiler and Pressure Vessel Code“.
- 2005: Expansion of the production hall which henceforth contains the companies biggest vertical boring and turning mill.
- 2007: Along with the financial-crisis the customer base plunges heavily and projects are delayed or canceled. This leads to an illiquidity of the company. With the enormous effort of the insolvency administrator as well as the preservation of the permanent staff the business activity can be kept fully operating.
- 2009: Introduction of an group of investors, renaming to Köllemann GmbH.



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Köllemann GmbH

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# -HISTORY

- 2010: Bachelor of Commerce Volker Kapteina joins the company and strengthens the management. His responsibility is within the commercial area.
- 2010: The old ERP-system is replaced by a new system which allows to
- 2010: The aged PPS-system is replaced by an modern ERP-system with special auxiliaries to force an more effective production.
- 2011: Manufacturing of the thitherto worlds biggest coke-preheater (60 metric to/h) - the delivery takes place in Yunnan, China.
- 2011: The company receives its certificate acc. to ISO 9001:2008, because of the consequent use of the internal long-term QM-system this is done without major changes.



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Kölleermann GmbH

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# -HISTORY

- 2012: For reasons of age Dipl. Ing. Hans Josef Blumenkamp retires, Volker Kapteina is from now on the sole general manager.
- 2013: Re-certification for the production and design of pressure-vessels acc. to the „ASME Boiler and – Pressure Vessel Code sec. 8 div. 1“.



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Köllemann GmbH

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# -ABOUT US

- It's not just our products that make us a global leader in these fields of application.

The most important resource is our employees, all of them. Together we're focused on the same objective:

*Provide you the best products and services  
you will find on the global market.*



# PROCESS TECHNOLOGY

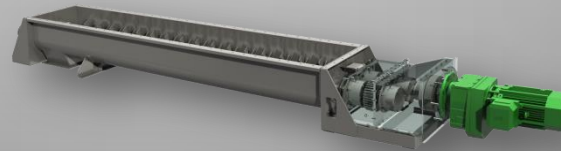
Köllemann GmbH

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# -PRODUCTS

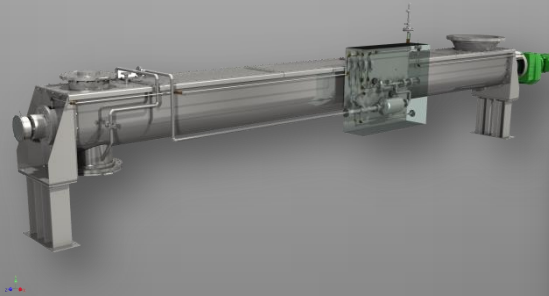
- HDPE and PP Powder Mixers

- Mixing length up to 12.000mm without intermediate bearings
- Capacity >60.000kg/h
- Complete cabinet for nitrogen supply



- Screw-Conveyors

- Pipe and U-Shape design
- Multi-Shaft design
- Adapted geometry for all products
- Various options available

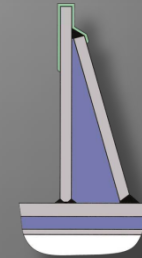
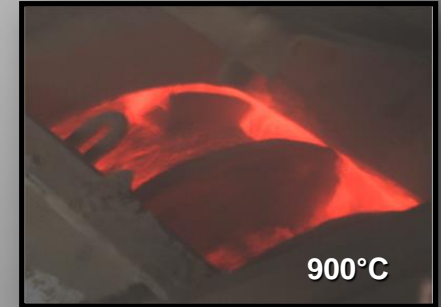
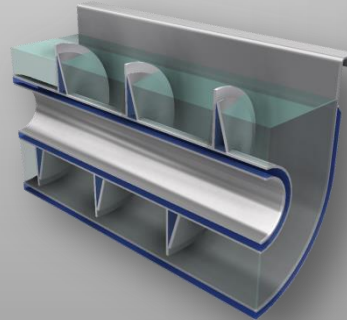


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# -PRODUCTS

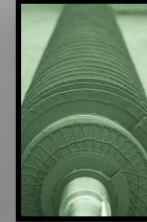
- **Screw-Heat exchangers (cooling)**
  - Temperatures up to 1200°C
  - Hollow flight principle
  - Safe separation of bulk material and heat transfer medium
  - Single and multi-shaft design available
  - Free choice of heat transfer medium (water, steam, thermal oil, brine, freezing agent etc.)
  - Maximum capacity by active heat contacting
  - Process-room-pressure from 20mbar abs. up to 30 bar
  - Bulk-Solids(digest): ashes, activated coal, salts, sludge, cement, metal oxides, pyrolysis residues, cyanide granule
  - Various options (see specific brochure)



## PROCESS TECHNOLOGY

# -PRODUCTS

- Screw-Heat exchangers (Heating)
  - Temperatures up to 450°C
  - Capacity up to 60to/h (from 5°C to 190°C)
  - Parameters and design features same as for the coolers
  - Suitable for heating and drying applications
  - Modular removable insulation covers
  - Bulk-Solids(digest): petcoke, silicone, coal, salts, sludge, organic materials, sand etc.
  - Pressure shock resistant design
  - ASME / AD2000 compliant
  - The worlds biggest preheaters are built by Köllemann
  - Various options (see specific brochure)



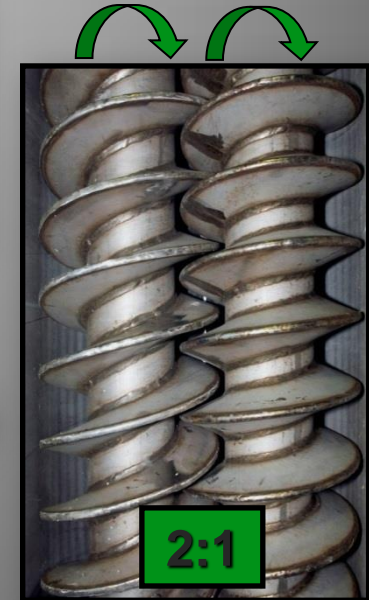
**PROCESS TECHNOLOGY**

Köllemann GmbH

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# -PRODUCTS

- Self-Cleaning Screw Heat Exchangers
  - Forced mechanical cleaning
  - High shear forces
  - Process safety
  - Heavy duty synchronization gear
  - 2:1 Shaft rotation ratio
  - Consistency up to cold petroleum jelly / silicone can be handled flawlessly
  - Clean surfaces ensure proper heat transport
  - Various options (see specific brochure)



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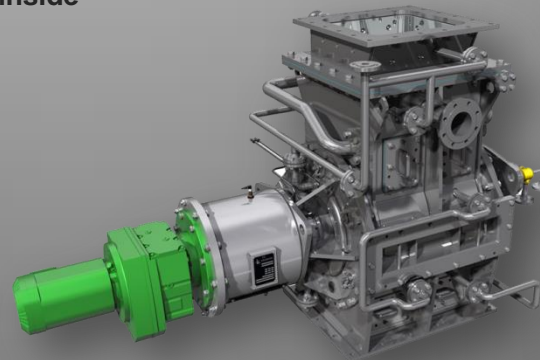
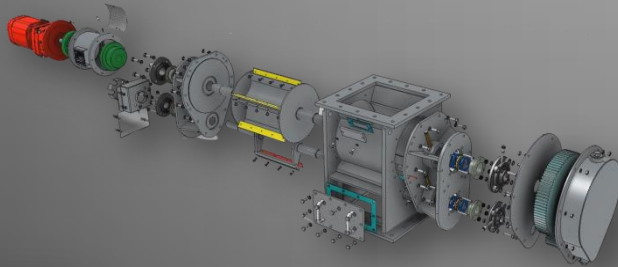
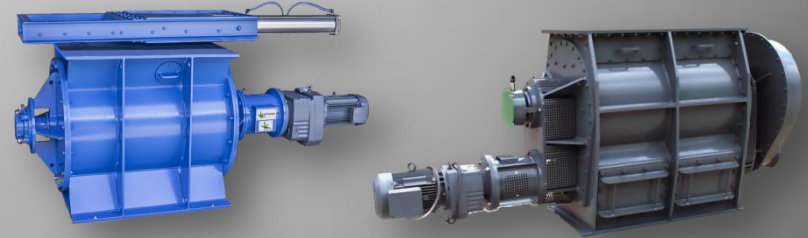
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# -PRODUCTS

## Rotary Valves

- Pressure-Shock resistant
- Wide range of materials available
- Forced cleaning (Self-cleaning)
- Wide choice of shaft-sealing-types (acc. to process conditions)
- Water-cooling of all surfaces in contact with the product in high-temperature-areas
- Replaceable wear sleeve for surface protection inside the housing against wear
- Various options (see specific brochure)



ZS DN2300



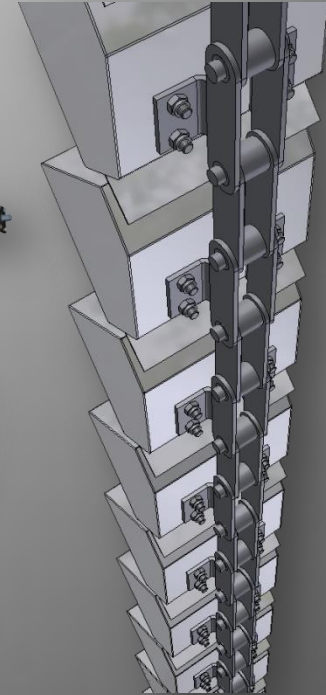
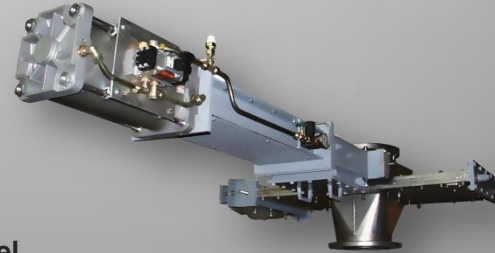
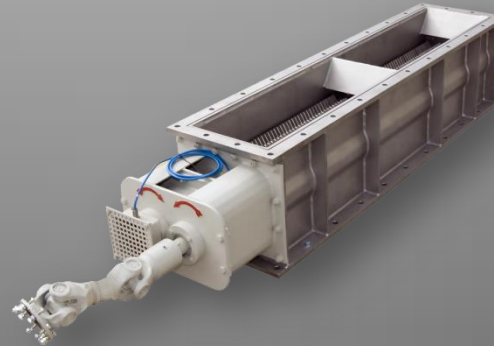
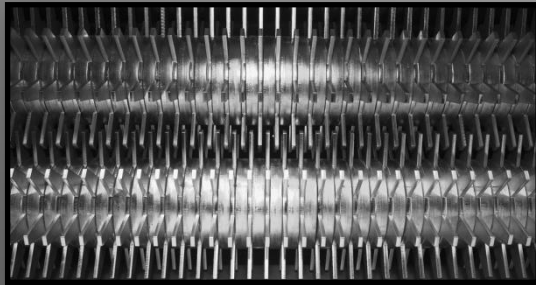
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Köllemann GmbH



# -PRODUCTS

- Slide Gate Valves, Lump Breakers, Bucket Elevators
  - Wide range of materials available
  - Suitable for any product
  - Pressure tight
  - Safe handling of toxic products
  - Safe separation of product rooms (Slide Gates)
  - All customary in the market available kinds of steel available
  - Fully customized design



**PROCESS TECHNOLOGY**

Köllemann GmbH

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# -HOW TO FIND US

- Our Address is:
  - Köllemann GmbH
  - Street: Am alten Wehr 9-12
  - City: 53518 Adenau
  
- GPS Coordinates:
  - 50°23'19.7"N 6°55'17.4"E

If you need any assistance in planning your trip, we appreciate helping you.




## PROCESS TECHNOLOGY

Köllemann GmbH

# - OUR CERTIFICATES

The American Society of Mechanical Engineers



## CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.


**COMPANY:**  
**Koellemann GmbH**  
 Am alten Wehr 9-12  
 Adenau 53518  
 Germany

**SCOPE:**  
 Manufacture of pressure vessels at the above location only

**AUTHORIZED:** March 26, 2013  
**EXPIRES:** March 26, 2016  
**CERTIFICATE NUMBER:** 44,490

*Bygn A. Bode*  
 Vice President, Conformity Assessment

*Dirk M. W. S. J.*  
 Director, Conformity Assessment



ASME (Pressure-Vessel Section 8)

## Certificate

**Standard** ISO 9001:2008

Certificate Registr. No. 01 100 110157

TÜV Rheinland Cert GmbH certifies:

**Certificate Holder:**



**Köllemann GmbH**  
 Förder- und Verfahrenstechnik  
 Am alten Wehr 9-12  
 D - 53518 Adenau

**Scope:** Distribution, Engineering and Manufacturing of Handling and Process Technology

An audit was performed, Report No. 110157. Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled. The due date for all future audits is 02-09 (dd.mm).

**Validity:** The certificate is valid from 2012-09-04 until 2014-09-05.

2012-09-05



DGA-ZM-58-95-00

*J. M. W. S. J.*  
 TÜV Rheinland Cert GmbH  
 Am Grauen Stein, 51109 Köln

  
 Precisely Right.

www.tuv.com

ISO 9001:2008

## Certificate

**Qualification of a production site for the manufacture of pressure equipment**

Certificate No.: 01 202 362P-89922/000

**Name and address of manufacturer:**  
**Köllemann GmbH**  
 Förder- u. Verfahrenstechnik  
 53518 Adenau  
 GERMANY

It is herewith certified that the manufacturer has furnished proof of the quality requirements for their welding production and also has experience in piece production in accordance with Directive 97/23/EC.

**Specification:** AD 2000-Merkblatt HP0 / DIN EN ISO 3834-3  
**Test Report No:** 01 202 362A-11 0212/Rev. 00  
**Scope:** **Manufacture of containers**  
 Köllemann GmbH  
**Production Sites:**  
 Förder- u. Verfahrenstechnik  
 D-53512 Adenau  
 GERMANY

**Valid until:** 01. Oktober 2014

**Köln, 2011-10-14** *Dipl.-Ing. Zopp*



**TÜV Rheinland Zertifizierungsstelle für Druckgeräte der**  
 TÜV Rheinland Industrie Service GmbH  
 Heifeld Str., Merc.-No. 0335  
 Am Grauen Stein, D-51109 Köln  
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 e-mail: kv@tue-ww@tue.tuv.com

  
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AD2000 / HP0



Köllemann GmbH

# PROCESS TECHNOLOGY

# - CONTACT TO KÖLLEMANN

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Germany

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Web: <http://www.koellemann.de>



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