

1909 - 2009

100 years company history

Lübberts

Anlagen- und Umwelttechnik GmbH



Alfred Lübbers (beginning of the 20th century)

1909

In 1909 the company's founder **Alfred Lübbers** (12/19/1870-04/11/1940) started the Lübbers success story in Bad Langensalza (Steinweg 19). Five years earlier Alfred Lübbers, who was born in Hannover, had bought the premises including the house for 43,000 gold marks.

Since **1902** Alfred Lübbers had been leading a successful **hardware store**. Seven years later he founded the company named "**Lübbers Käseereimaschinen**". After the takeover of a local cheese dairy he moved the company to "Steinweg 19". Here, he started revolutionizing the world of cheese production.

Despite harsh criticism the visionary pursued his idea of cheese production by means of motor driven machines. At that time cheese was traditionally formed solely by hand - a fine mode of production cherished by his critics.



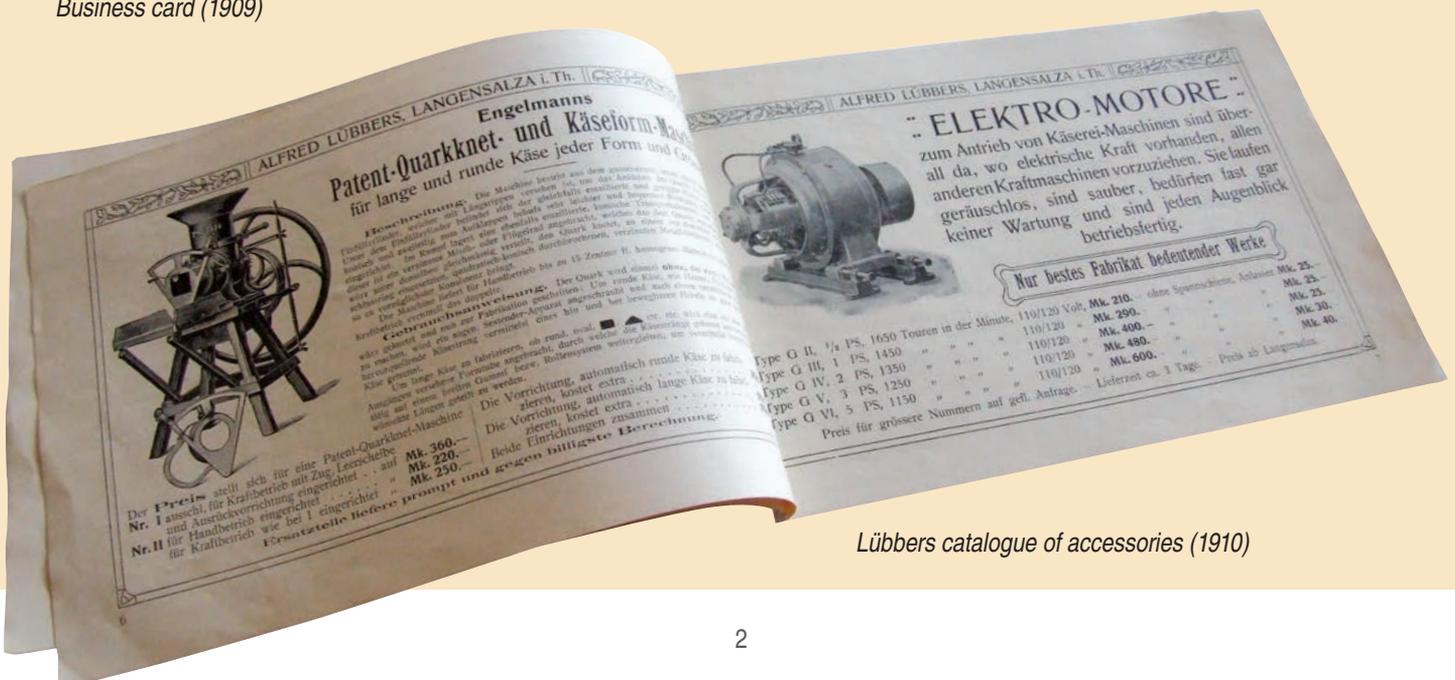
Business card (1909)

1910

Only a short time after its introduction, his new semiautomatic cheese forming machine eliminated all other comparable products on the market, mostly owing to its economic and technical advantages.

The use of these ground-breaking machines resulted in a much higher efficiency in the cheese production process.

A Lübbers machine formed up to 200 kg cheese per hour, whereas a trained worker accomplished only a fraction of that amount.



Lübbers catalogue of accessories (1910)

* Abschrift *

Der Bürgermeister.
Stadtsteueramt
Abt. Gewerbebeanmeldungen.

Langensalza, den 1. April 1902.

A u s z u g
aus dem Verzeichnis der Gewerbebeanmeldungen.
Rechnungsjahr 1902
lfd. Nr. 15....

a) Name der Firma b) Zu- und Vorname der Jnhaber	a) Betriebsstätte b) Wohnung d. Jnhaber c) Ort der Leitung	Art des Gewerbe- betriebes
Lübbers, Alfred.	Langensalza.	Wäperei, von feinsten Cafépatzge 23, Füllung 110 Stk. Fährkelchmann Maschinen für Geräten für Wäperei Preis: Ab 1. Nov. 1900 Prof. Carlhoff Lübbert.

Tag der Anmeldung: .. 21. Nov. ... 1902...

Tag der Eröffnung: .. 1. April ... 1902...

Höhe der Verwaltungsgebühr: RM .. 16. ...

Nr. der Verwaltungsgebühren-
Liste :

H. 2. 1.
Stadtbürgersekretär


 Stadtverwaltung
 5 RM
 Langensalza


 Stadtverwaltung
 5 RM
 Langensalza

Registration of business (1902)

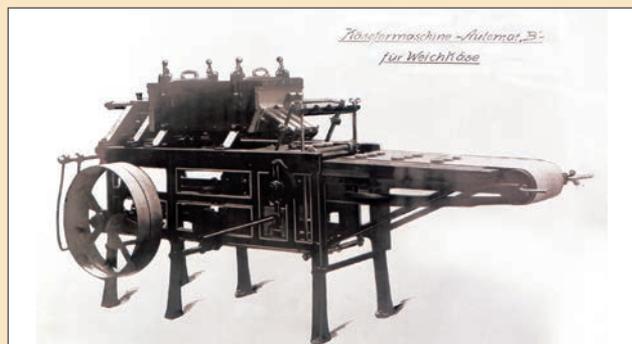
Already a 100 years ago, a catalogue of accessories for the Lübbers cheese dairy machines proved the founding father's industrial efficiency.

At the beginning of the 20th century, Alfred Lübbers not only equipped his own factory, but also delivered his machines and supplementary products to East Prussia, Silesia, Lower Saxony and Hesse. Only a few years later Lübbers technology was also sold beyond the German border.

The cautious producer continued to produce cheese as a second source of income and hence benefited personally from his superior machines. This market strategy – to follow two independent lines of production – constantly ensured a positive annual balance.

Like all other machine manufacturers, Alfred Lübbers had to change his production mode during the **World War I**. Instead of cheese dairy machines, he now manufactured grenades. During the years of war the tireless innovator was working on new ideas for his actual line of industry.

After 1918 he returned to the original production in the combined cheese and machine factory.



Cheese forming machine "Automat B" for soft cheese (1910)

1920

In 1920 Alfred Lübbers presented another world wide innovation at the trade fair in Leipzig.

His "Formautomat D" was the first cheese forming machine with an automatic curd feeding device.

This technical masterpiece demonstrated the company founder's unrivaled technical capacity. Alfred Lübbers' extensive economic and technical knowledge made history in the field of mechanical engineering.



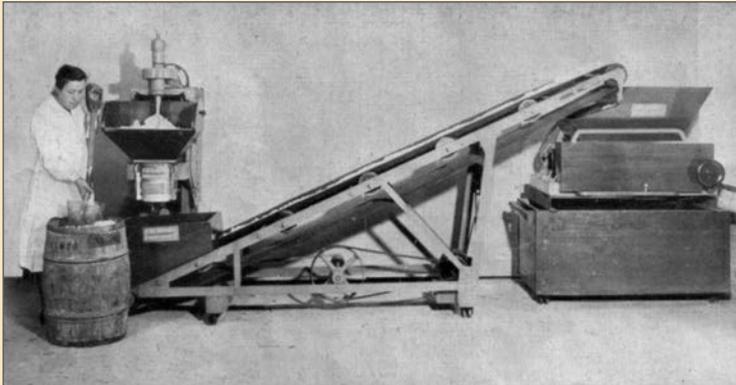
Cheese forming machine "Automat D" (1920)



Stand at the Leipzig trade fair (1920)

1933

In 1933 Alfred Lübbers integrated **anchor coiling** and a **repair factory for electric machines**, thus expanding the technological range of the family business.



Curd conveyor (1930)

Spezialfabrik für Käseemaschinen
Alfred Lübbers / Langensalza
 Telegr.-Adresse: Lübbers, Langensalza · Fernruf 165

Quarg-Knet- und -Mahlmaschine „Modell MK“
 mit Feinmahlvorrichtung und eingebautem Motor

Teile

Mit eingebautem Drehstrom-Motor und Feinmahlvorrichtung . . .	RM.
Mit eingebautem Gleichstrom-Motor und Feinmahlvorrichtung . . .	RM.
Für Transmissions-Antrieb (Los- und Festscheibe, Ausrücker) . . .	RM.

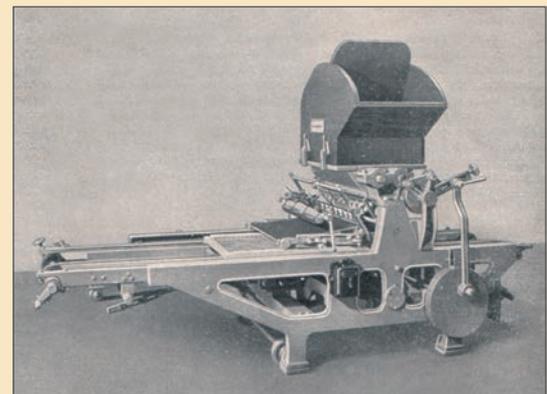
Abmessungen-

Freie Höhe für Unterfahrt 740 mm,	Breite	660 mm
Ganze Höhe	Einschüßhöhe	1220 mm
	Ausladung	1080 mm

Flyer (1930)



Elisabeth Lübbers (1940)



Original fully automatic machine model "GA" (1935)

1940

After the founder's death in 1940 his wife **Elisabeth Lübbers** (09/19/1901-06/10/1984) took over the business.

Her late husband's developments had made the company **the sole manufacturer of cheese dairy machines**.

She put chief engineer Robert Arend in charge of the machine factory, and he also benefited from the success of the company by means of profit sharing.

1955

From 1955 onwards, functional high quality cheese dairy machines were exported from the GDR to the CSSR.

Despite a high level of production capacity utilization and high demand Elisabeth Lübbers was forced to sell parts of the company to the "Investbank" in order to pay Arend, whose royalties had piled up during the years of war.

Thus the company became parastatal and the "A. Lübbers KG" came into existence.



Fully automatic machine model "GA" (1957)

1959

In 1959 engineer **Manfred Lübbers** (08/28/1927-07/07/2008) took over the management. He followed his father's footsteps and became the head of the cheese dairy machine monopoly.

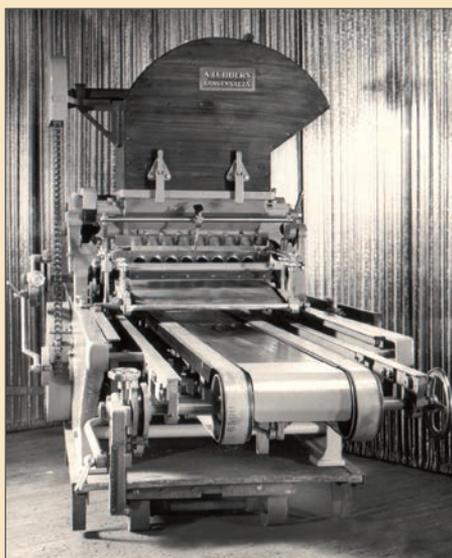
Consequently, he successfully expedited the further development of the machines.

In the GDR, Manfred Lübbers and his **24 employees** were the sole manufacturers of these plants, which were in demand throughout Europe.

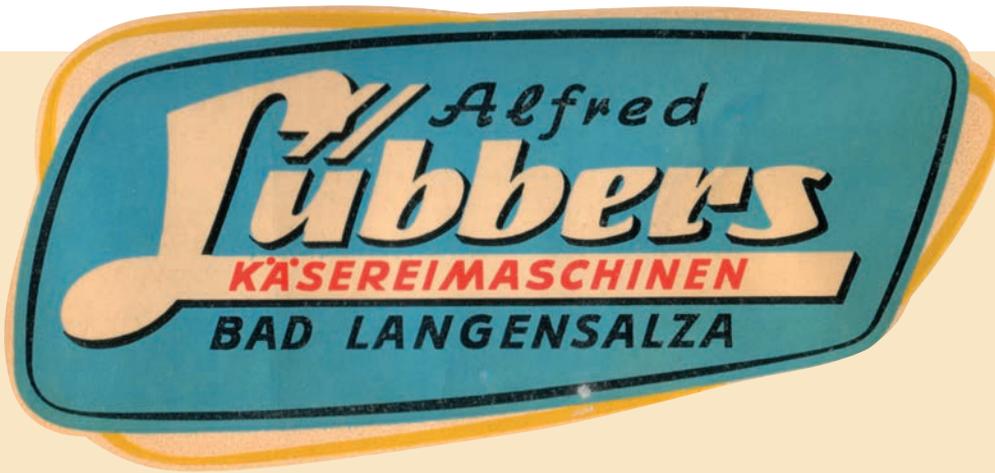
The development of the **curd mix pan** completely replaced any handwork. Numerous innovations were crafted by the Lübbers company, including a **bag conveyor** and a **kneader**, all of which helped to gradually enhance the efficiency of the cheese production process. The continuous improvement of the machines made the company stand out; former granite rolls were replaced by stainless steel rolls bringing the driving mechanisms to perfection.



Manfred Lübbers (1956)



Fully automatic machine model "GA" (1962)



Lübbers logo since 1965



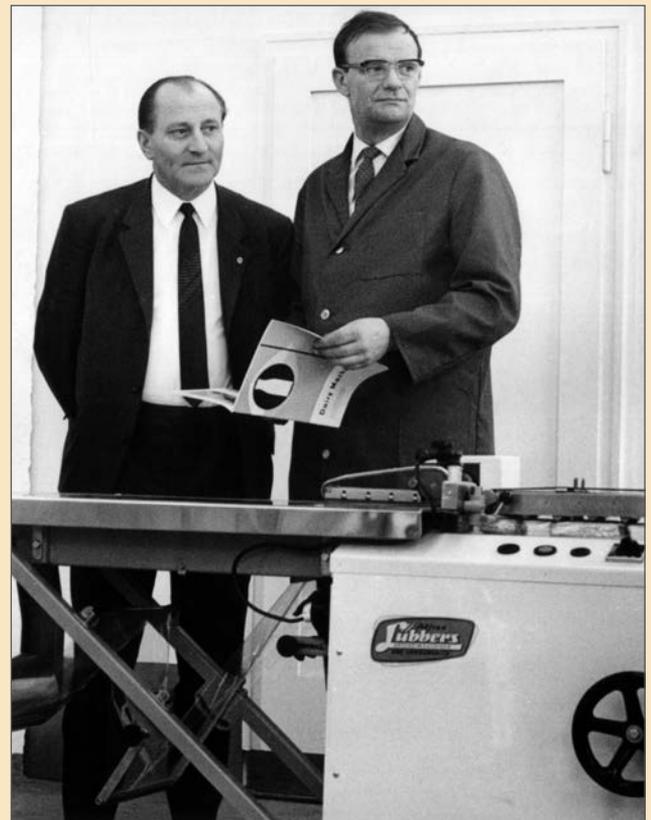
Manfred Lübbers (r.) during assembling (1962)



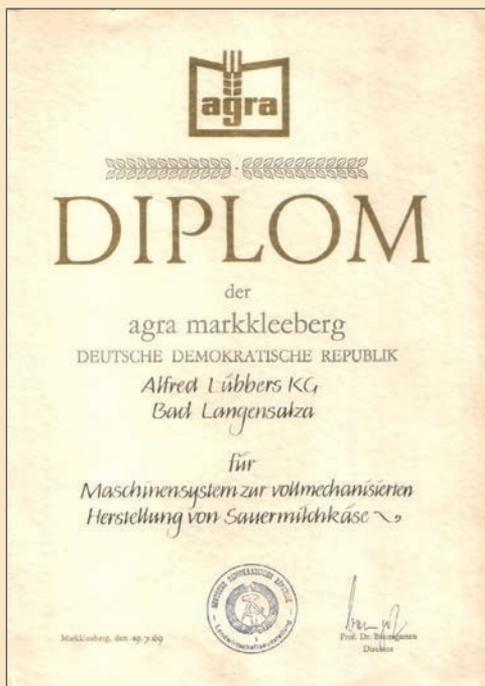
Build-up at the "AGRA" trade fair in Markleeberg (1969)



"Alamat 2" (1968)



Manfred Lübbers at spring trade fair in Leipzig (1970)



1972

During the era of socialist rule Lübbers, as most private businesses, was forcefully nationalized. In 1972 the company was transferred into the **plant section Langensalza of the "VEB Kyffhäuserhütte Artern"**. Due to restrictions on traveling abroad Manfred Lübbers had to cope with a severely **decreasing order volume**.

Any business contacts to West German companies were suppressed by the state authorities. Manfred Lübbers was provided with substitutes, who had proven their "true allegiance to the state" and who were to conduct any further business in "capitalist countries". Although these representatives were interested in foreign exchange acquisition, they lacked the basic and technical knowledge to actually conclude a business transaction.

During the subsequent years the company found its position on the market not only as a large-scale manufacturer of **curd kneading machines and refiners of stainless steel**, but also as a factory satisfying individual customers' needs.

By that time, the units - as planned and constructed by Lübbers - were able to process 1.6 t curd per hour, which could be formed into up to 24,000 pieces of the popular "Harzer Roller" or "Stangenkäse".

Even **packaging machines** were included in the current product program, like the packaging machine for curdled milk cheese. This new technical development was another step to the further automation of the cheese production process.

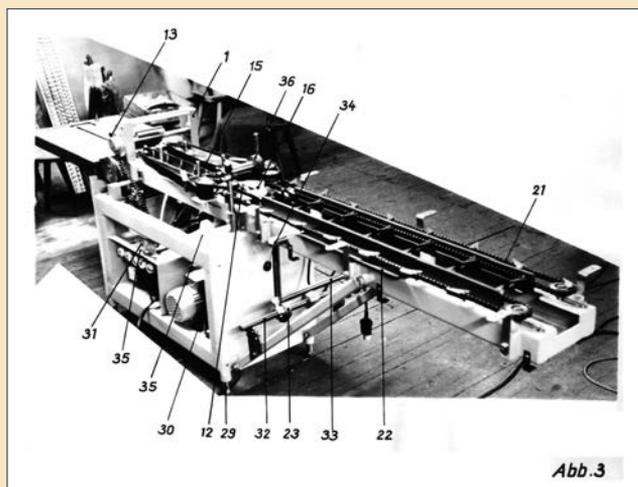


Abb. 3

"Alamat 3" (1971)



Production (1980)



"Alamat 3" during production (1971)



Packaging machine developed in 1980



Fully electrical
packaging machine
(1991)



1990

The year 1990 was marked by the German reunification and the **reprivatization** of the Lübbers company. On **July 1st, 1990** Lübbers eventually went back in private hands. As a highly specialized manufacturer the Lübbers company had managed to keep its reputation even during the period of state control.

In the wake of the GDR downfall, its dairies and cheese producing industry became insolvent. As a result the Lübbers company also lost about 80% of its customers. Lübbers' eventual entrepreneurial new start was supported by its employees' quality-orientated and cost-efficient work.

The company's history was determined by inventive talent and technical experiential knowledge, both exemplified through Manfred Lübbers' work during the crucial years after the reunification.

In **1991** the German market was presented with the first **packaging machine** that was **synchronized exclusively electronically**.

Comparable machines of the same price range produced by other competitors worked merely mechanically. The local company "Greußener Salami" was the first customer to buy this novel and groundbreaking construction.

1992

Commercial skills and an increasing demand on innovative products led to the consolidation of the Lübbers company.

In 1992, **Matthias Lübbers** (08/03/1952) took over the **company's management in the 3rd generation** and transformed it into a limited liability company (GmbH) with the new name "**Lübbers Anlagen- und Umwelttechnik GmbH**".



Matthias Lübbers

Lübbers

Anlagen- und Umwelttechnik GmbH

The change to a limited company coincided with an expansion of the company's range.

In order to establish itself on the market and to satisfy the increasing demand of environmental protection, the company started to **manufacture sewage-treatment plant systems**.

The **first major project** of the GmbH was the planning and the construction of components for the new sewage plant in its hometown Bad Langensalza. In co-operation with "Grimmel Wassertechnik GmbH", who did the engineering of the project, the Lübbers GmbH rose to this challenge.

At the same time Matthias Lübbers decided to build a new production hall with integrated headquarters. The old-established site at "Steinweg 19" proved to be too small for his ambitious future projects.

Within an additional year the financing of the total investment of 3.6 million DM was closed and the building ground was fixed. The industrial area "Gewerbegebiet Nord" in Bad Langensalza provided enough space and various infrastructural advantages.

1993 Supported by public funds, the construction of the **new building** started in **August 1993**.

Within 12 months the production and administration building rose on the 30,000 m² property.

The brand new production area of 1,500 m² was supposed to accommodate up to 25 employees. However, being a forward-looking young entrepreneur, Matthias Lübbers already then planned work places **for up to 50 future employees**.



Ground-breaking ceremony (1993)



Newly constructed company building (1994)

Extracts of our reference list:



Customer: BMI
Year: 1996-2007
Project: Modernization and construction of drying plants



Customer: Molkerei Meggle Wasserburg GmbH & Co. KG
Year: 2005
Project: Pharma tower



Spray drier (1996)

1996

A project for the mounting of a **spray drier for “Milchwerke Erfurt”** led to the collaboration with the Swiss company “ZIAG”. The Lübbers company’s production of stainless steel components for the new plant in the Thuringian capital inspired Matthias Lübbers to establish his company in the food industrial sector of drying devices.

As soon as 1997 the **first evaporator for “BMI”** in Windsbach was built. With a length of 25 m the evaporator has a water evaporation capacity of 25,000 kg per hour. This initial project ensured the Lübbers company’s (in co-operation with ZIAG) access to this industrial sector.

PCT		WELTORGANISATION FÜR GEISTIGES EIGENTUM (Organisation: Büro)	
INTERNATIONALE ANMELDUNG VERÖFFENTLICHT NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES PATENTWESENS (PCT)			
(51) Internationale Patentklassifikation ⁷ : B01D 46/42, 46/04	A2	(11) Internationale Veröffentlichungsnummer: WO 00/03786	
		(43) Internationales Veröffentlichungsdatum: 27. Januar 2000 (27.01.00)	
(21) Internationales Aktenzeichen: PCT/DE99/02144	(81) Bestimmungsstaaten: AE, AL, AM, AT, AU, AZ, BA, BR, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO Patente (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), eurasisches Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), europäisches Patent (AT, BE, CH, CY, DK, DE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI Patente (BF, BI, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).		
(22) Internationales Anmeldedatum: 10. Juli 1999 (10.07.99)			
(30) Priorität(s)dat(en): 298 12 702.4 16. Juli 1998 (16.07.98) DE 298 22 701.0 19. Dezember 1998 (19.12.98) DE			
(71)/(72) Anmelder und Erfind(er): LÜBBERS, Matthias (DE/DE); Eisenacher Strasse 20, D-99947 Bad Langensalza (DE).			
(74) Anwalt: STERN, Wolfgang; Josef-Albers-Strasse 40, D-99085 Erfurt (DE).		Veröffentlicht Dieses internationale Recherchenbericht ist erstens zu veröffentlichen nach Erhalt des Berichts.	
(54) Title: ANNULAR GAP INJECTOR			
(54) Bezeichnung: RINGSPALTINJEKTOR			
(57) Abstract			
The invention aims at providing cost-effective annular gap injectors that are easy to assemble and maintain, especially for one or several injection steps, wherein the activation elements for the cleaning process can be built in a simple manner with little wear, if required. To this end, at least one tube (3) or another connecting element may be arranged between the locking element (1) and the sleeve (2) and/or the locking element (1) is disposed in or on a pressure accumulator (2) for fooling the cleaning gas and the control line (3) for actuating the shut-off valve (1) is disposed in the area of the filtering system inside the pressure accumulator (2).			

1999

After its bankruptcy in 1999, Matthias Lübbers was smart to take over the ZIAG company, since the business contacts of the former partner were kept up. Hence, steps to a further collaboration with the food and pharma sector were taken.

All products, which had been sold via ZIAG to a third party before, were from then on directly marketed by the Lübbers company. Therefore, Lübbers Anlagen- und Umwelttechnik GmbH now presented itself not as a sub-supplier but as a direct seller. Additionally, the engineering was “home-made”, thus enabling the company to provide its customers with individual solutions.

The Lübbers Anlagen- und Umwelttechnik GmbH became a supplier of **complex and technically demanding plants for spray drying and evaporation**.

In a pragmatic, elaborate and unrivaled move Matthias Lübbers presented his **patent of a CIPable filter with an individual cleaning capacity for the filter bags in 1999**.

It was this “**Cleaning in Place**” formula which made his filter system so revolutionary.

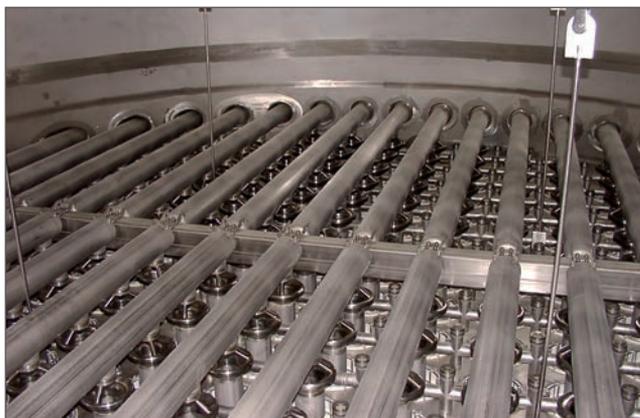
It rendered it possible to efficiently clean the filter plant while the production process kept running, opposed to conventional filters that required several interruptions of the production process in order to get cleaned.

Extracts of our reference list:



Customer: Fonterra
Year: 2002
Project: CIPable filter

This concept, as developed by Matthias Lübbers, allowed a continuous production and minimized the dwell time of the plant. In addition to that, the **filter was presented in a puristic, sanitary design** created by the entrepreneur himself.



Round filter cleaning

Functional principle

In this new cleaning method, the round filters are used as filtering dust collectors to separate the dried product of the processed air directly after the drying process. The dust-loaded processed air streams inwards through the filter tubes, whereby the dust settles at their surface.

The so-cleaned gases leave the filter as pure gas through a so-called pure gas area. The round filters are equipped with a fully automatic filter cleaning system.

The continuous cleaning of each filter tube is achieved by a pulsed back-wash of compressed air or other compressed gases. This method constitutes a **patent-registered, fully automatic "Multiple Step Injector Cleaning" by means of compressed air pulses**. The washing installation for the round filter is a component of the cleaning of the installed filter bags (Cleaning in Place concept).

Hygienic production plants are essential for the quality of milk products. The filter cleaning of Lübbers Anlagen- und Umwelttechnik GmbH fulfils the high hygienic standards of all the industries it is constructed for: pharma, food, chemical, aroma and vitamin industry.

"Elegance through simplicity!"



HOCHDORF
BEST PARTNER

Customer: Hochdorf Nutritec AG
Year: 2008
Project: Spray drier

2000 Around the millennium, the company acquired increasingly strong positions on the international market. New clients came from the Netherlands, Ireland and the United States of America, and thus export became an important business branch for the ambitious company.

The **reconstruction of an already existing plant** was undertaken by the company according to its own design in the **USA**. This plant, which cost 2 million DM, is still operated by **Roche Vitamins Inc.** in Belvidere, New Jersey today and produces 600 kg vitamin powder per hour.

Since 2000 **two other colossal Lübbers plants** have been producing in **Bad Bibra (Saxony-Anhalt)**.

With a weight of 78 tons and a tube length of 26 m this giant plant (run by the "Molkereigenossenschaft Bad Bibra e.G.") is **one of the longest stainless steel evaporators ever built in Germany**, evaporating 40,000 l of water per hour at a maximum capacity.



Plant in Bad Bibra (2000)

2002 An order of "Molkerei Ammerland" posed another challenge.

In February 2002 **twelve months of developing and manufacturing** were crowned with success: a **whhey tower** with a performance level of **1 million liter fluid whhey** per day was installed.

This tower's design was followed the personal concept of the creative engineer and businessman Matthias Lübbers.

This tower is 8.40 m wide and 10 m high, and its assembly required a special crane that could transport its weight of 23 tons to its final installation location.

In this new plant fluid whhey is dried completely in order to gain whhey powder, which later can be used for the production of chocolate, ice cream or even baby food.

The fine stage of production, in which the fluid whhey is concentrated and processed to powder, became the ultimate innovative step in the company's original technique.



Plant in Ammerland (2002)



Lifting and assembly of the dryer in Ammerland (2002)

Extracts of our reference list:



Customer: Leiber GmbH
Year: 2009
Project: Construction of a spray drier plant

2004 The innovative character of the round filter cleaning system - as it had been developed and successfully installed by Matthias Lübbers and his team - was also recognized by the jurors of the ministry of economics.

It was both **revolutionary and technically brilliant**. The new cleaning process allowed users to produce high quality goods, for example baby food with its extremely high production standards. This new technique earned Matthias Lübbers the **Thuringian innovation award** ("Thüringer Innovationspreis") from the ministry of economics in 2004.

A passionate engineer and meticulous worker, Matthias Lübbers developed the ingenious system primarily to meet his customers' needs. Thus he reasserted his **company's philosophy of providing individual and future-oriented products**.



Lifting and assembly of the filter lifting for "Nordmilch" (2004)



The Thuringian economics minister Jürgen Reinholz awards Matthias Lübbers with the "Thüringer Innovationspreis" in 2004

2004 in Edewecht, Lower Saxony. The "**Nordmilch**" corporation expanded its branches of production and commissioned Lübbers Anlagen- und Umwelttechnik GmbH to build the **biggest whey powder tower in Europe**.

A new challenge had to be faced in Bad Langensalza, for now not only technical but also logistical problems needed solutions. All effort resulted in the erection of a **tower of 23 m height and 70 tons** of total weight, which had to be installed by means of a special crane, originally built to lift up to 800 tons.

Since its launch, this unique colossus has been producing **up to 1 billion kg whey per year**.

"Nordmilch" thus became another satisfied Lübbers customer.



Customer: Divis Laboratories Ltd.

Year: 2006

Project: Complete plant for the production of beta carotene

2009

Today, Lübbers Anlagen- und Umwelttechnik GmbH is a highly demanded **contractor for planning and manufacturing in the stainless steel plant area.**

The medium-sized company specializes in **drying and evaporation technology** for industrial plants in the food, pharmaceuticals and chemical process management.

The company offers its customers a manifold variety of product programs such as **evaporators, fluid beds and spray driers.** The plants are either sold as complete units or engineering packages including all key components. Therefore the customer may determine whether to mount and install the plant independently or to entrust the Lübbers professionals with the task. Customers' satisfaction is an absolute priority in all of the Lübbers company's endeavors.

Future

Lübbers Anlagen- und Umwelttechnik GmbH faces the company's future with a positive outlook.

A wide variety of products, highest quality demands, a high degree of technical know-how, readiness to continuous learning and the declared intention to optimize products and to create ideal and individual customer solutions are the perfect base for the company's development.

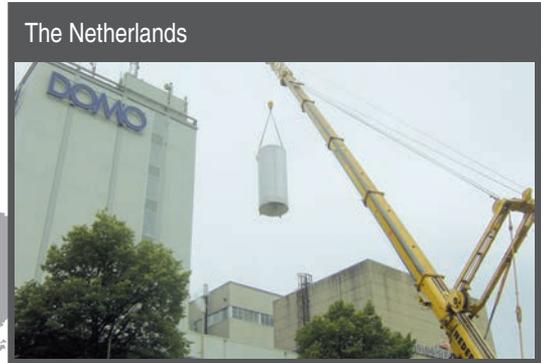
Satisfied customers, order books always full, international purchasers constantly attracted, and the expansion of the company account for an excellent starting position for its establishment on the national and global market.

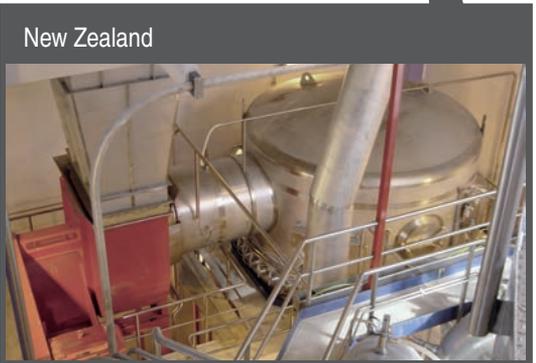
VISION!

The tradition and technology-oriented company envisions itself perspective as a market leader for highly efficient drying plants that achieve a maximum output at minimum energy consumption.

Looking back on a 100 years of experience, the company intends to build its future upon the development and manufacturing of latest plant technique regarding all economic and ecological aspects.

Lübbers plants are operating world-wide:





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Internet: www.luebbers.org

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