



winter
MASCHINENBAU

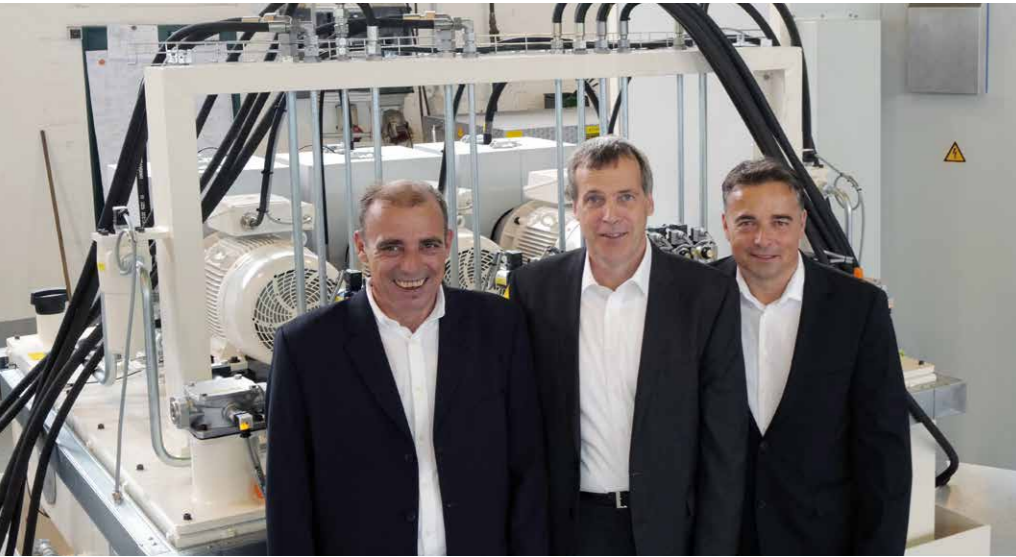
1946 – 2021

75 YEARS INNOVATION





Greeting



This anniversary publication is dedicated to our customers, employees, suppliers and partners as well as the friends of our company, without whom the successes of the past years would not have been possible.

At this point, we would like to thank our parents Dipl.-Ing. Jost and Sigrun Winter, whose considerable commitment over the past 50 years has created the basis for the company in its current form.

In turn, they have only been able to achieve this thanks to a loyal customer base that has always had confidence in our company and in the competence of our specialist departments, and thanks to a large number of long-standing and experienced employees who represent our company positively to the outside world. The high standard of quality and the high level of technical know-how have meant that our company has been able to successfully hold its own on the market for several decades and has always been available as a contact partner for complex technical solutions and innovations.

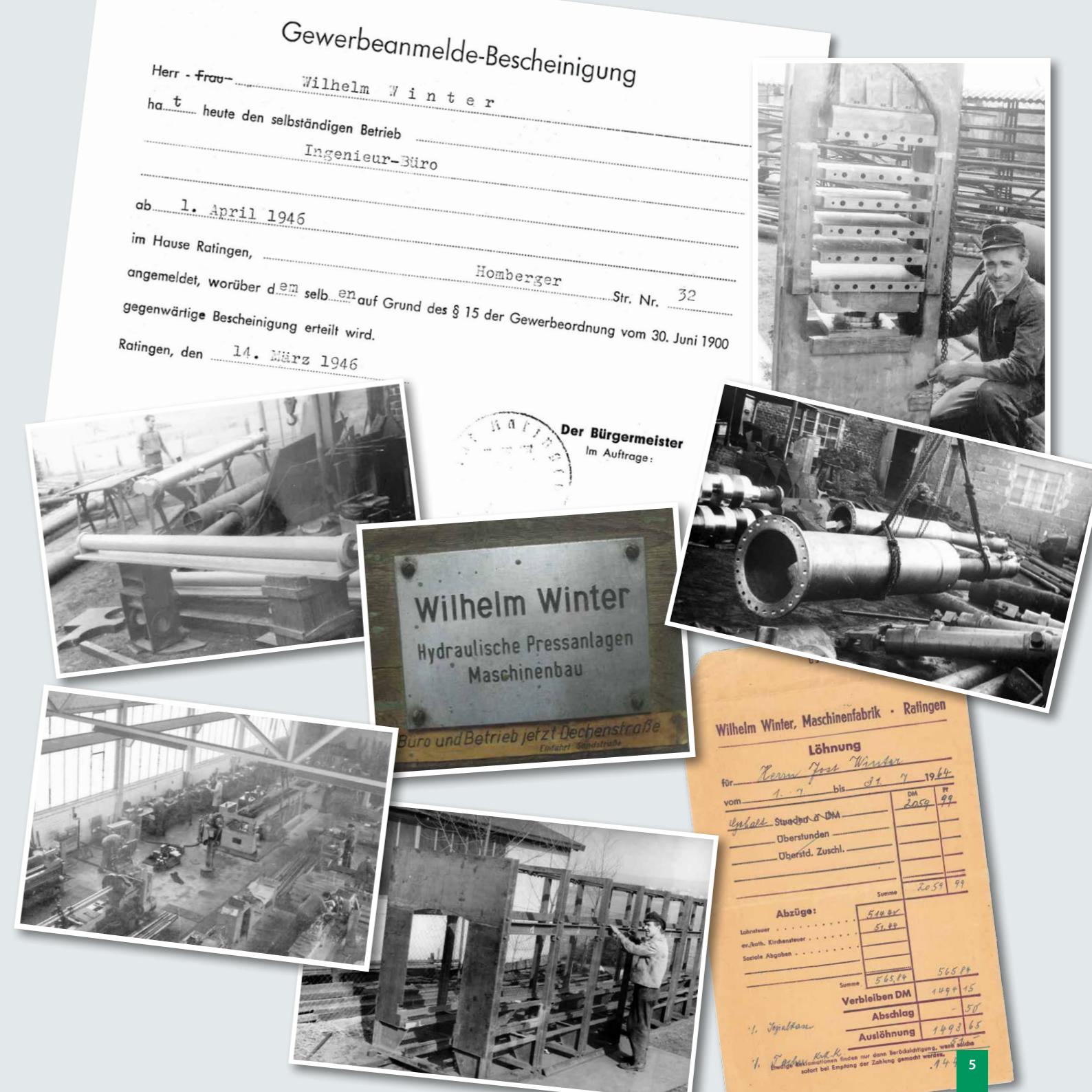
On the following pages of the anniversary publication, we would like to give you an overview of the major milestones in the development of our company.

We look back with pride on what we have achieved so far and look forward with great commitment and interest to future challenges in order to remain a reliable partner for our customers, employees and suppliers.

Stefan Winter

Dr. Markus Osterloh

Thomas Winter



1945

1945

Foundation of Winter GmbH by Dipl.-Ing. Wilhelm Winter



1946

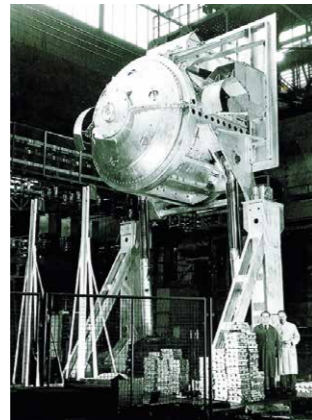
Establishment of own production and assembly in a barn



1947

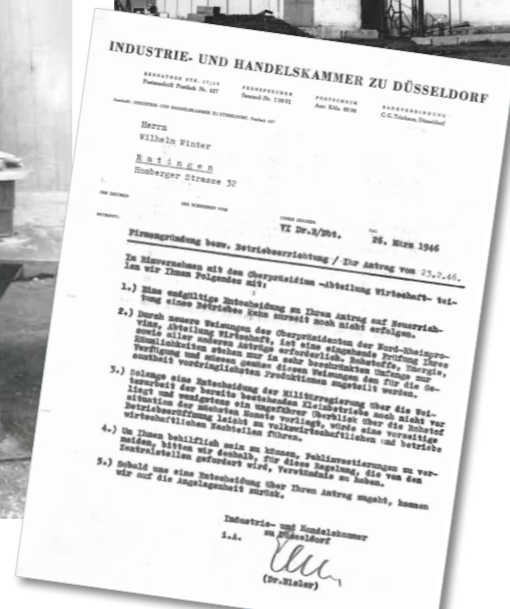
Hydraulic cylinder including support for kiln tilting device

1950



1955

1957
Move to the newly built production and assembly hall at Dechenstraße 1



1960



1963
Delivery of the first hydraulic system for the grate firing of a waste incineration plant to TWS Stuttgart (Münster), today EnBW



1959

Delivery of the first 260 ton pipe testing press (to Romag, Düringen, Switzerland)

1964

First antenna rotors (Hein Lehmann, Düsseldorf)



Immediately after the Second World War, Dipl.-Ing. Wilhelm Winter founded the company "Winter Maschinenbau" in 1945, initially as an engineering office in his home at Homberger Straße 32. One year later, in 1946, the company set up its own production and assembly in the barn of the farmer Michels at the Pfingsberg/corner of Homberger Straße. In the early days, oil mills, beet presses and faeces pumps were manufactured. The product range soon expanded to include valves, plunger pumps and water-hydraulic presses.

In 1957, the company moved to the newly built production and assembly hall at its current location at Dechenstraße 1. In 1959, the first hydrostatic pipe testing system for testing welded and seamless pipes for material strength and tightness using water pressure was delivered. Today, the pipe testing systems are used by well-known pipe manufacturers worldwide.

In 1963, the first hydraulic system for the grate firing of a waste incineration plant was planned and delivered to TWS Stuttgart (Münster), today EnBW.

In 1964, the precision engineering division began developing and producing antenna rotors with the associated positioning controls, which still form an important part of the production programme today. The antenna support systems were initially designed for mobile masts, but are now increasingly installed on fixed masts, vehicles, meteorology and offshore applications. The customer base includes telecommunications central offices, universities, the German armed forces and NATO.

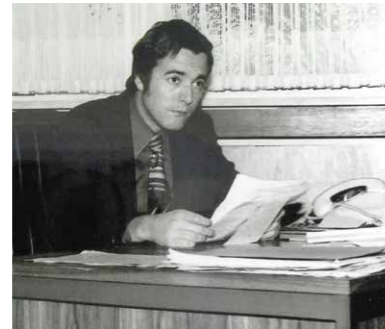
1965

1966

Delivery of the first trimming machine for radiator sheets (to Keller & Knappich, Augsburg)



1970



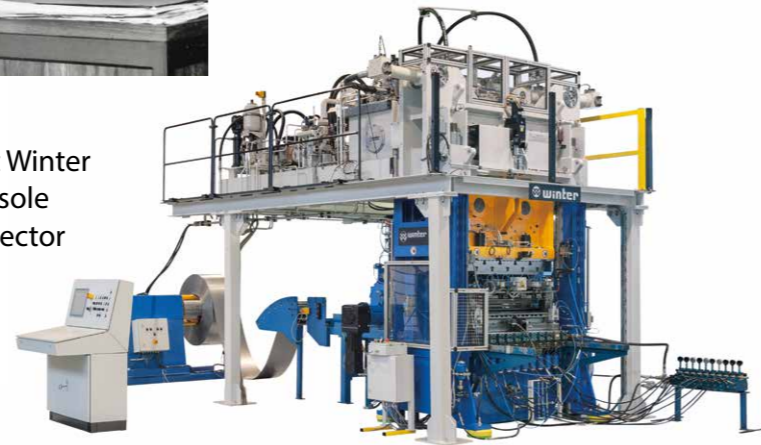
1969

Dipl.-Ing. Jost Winter takes over as sole managing director

1975

1973

Delivery of the first fully automated production line for the manufacture of convector sheet profiles for radiator production (to Buderus, Wetzlar)



1980

1979

Development and delivery of convector presses with toggle lever system and hydraulic tooling

1980

New construction of an assembly hall, Dechenstraße 3



1985

1985

Start of delivery of antenna rotors for FlaRak PATRIOT - Hawk project, duration until 2001



1965

The first wet cutting machine TYPE Cuto 20 is developed (for Jean Wirtz, Düsseldorf, today ITW Buehler)



1965

Development of antenna positioners for mast systems in the field of information and communication systems



In 1965, the first wet cutting machine type Cuto 20 was designed and delivered to the company Jean Wirtz, Düsseldorf). The Cuto 20 is still in production today. The range of wet cutting machines was expanded in the following decades with new types (Cuto 35, WetCut 55 and most recently WetCut 110).

1966 saw the development and delivery of the first trimming machine for radiator sheets for radiator production. Subsequently, through close cooperation with the Swiss company H.A. Schlatter AG, Schlieren, a successful collaboration developed in the project planning and delivery of production lines for the manufacture of convector profiles for panel radiators for the radiator industry. The first fully automated production line was delivered to Buderus-Werke in Wetzlar in 1973. To this day, almost all well-known radiator manufacturers in Europe, Turkey, Russia and other countries manufacture with the proven Winter convector lines.

In 1969, the company was renamed GmbH & Co. KG. Whereas the machines and plants had previously been shipped abroad via trading companies, the direct export with all the necessary formalities could be carried out directly by Winter from 1973 onwards. This was of particular importance for the further development and profit of the company.

In 1980, a new assembly hall was built at Dechenstraße 3 and used from then on.

In 1985, the first antenna rotors were delivered as part of the PATRIOT radio relay system. The project ended in 2001. Winter was and is also involved as a partner in the major overhaul of the system and the development of the successor system.

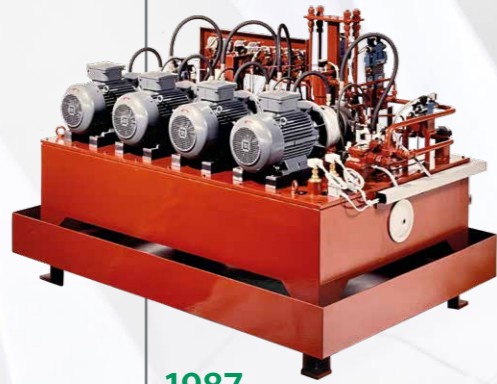
A Journey through 75 Years of History

1986 to 1995 – Entry into the international market

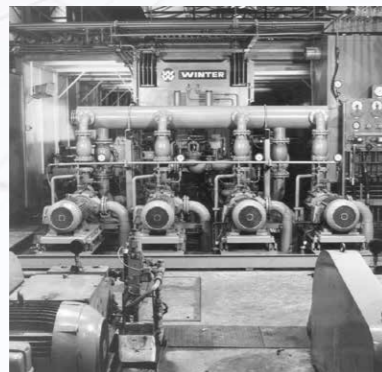
1986 — 1987 — 1988 — 1989 — 1990 — 1991 — 1992 — 1993 — 1994 — 1995



1986
Air-operated shaker cylinder PZ 219 with control valve KS520



1987
Hydraulic systems for waste incineration



1989
El Nasr Steel pipe testing facility, Cairo, Egypt

1990
Sandwich double strip feed plants

Project planning mobile waste incineration plant for hospital waste



1991
Antenna rotor AR/AE 1021 installed in a radome (Dartcom)



1991
Coil transport car (coil storage to reel)



1993
Forstner cut-to-length shear with bending device



1992
New building hall Dechenstraße 7, used by the precision engineering department



1995
ITT Richter pressing machine for lining housings with PFA, FEP, etc.



ITT Richter pressing machine

Winter Maschinenbau operates worldwide from Ratingen. A large part of the turnover is realised outside Germany through the export of machines and plants and user-specific special solutions.
In 1994, Dipl.-Ing. Stefan Winter joins the company and is subsequently appointed managing partner.

A Journey through 75 Years of History

1996 to 2005 – Innovations over generations

1996 — 1997 — 1998 — 1999 — 2000 — 2001 — 2002 — 2003 — 2004 — 2005



1997
Delivery of 600 L extinguishing water units "Aqua Safe" for fire protection systems (to the company Kidde Deugra GmbH)



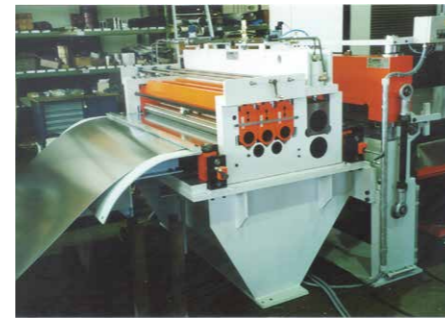
2000
Prototype Rotor AR/A 1050

1996
First introduction and certification of the quality management system DIN EN ISO 9000

New construction and occupation of the office building, Dechenstraße 7



2001
Strip feed plant HSE



2002
Delivery of pipe testing system EPE Anabib Algeria



2003
Foundation of Winter GmbH & Co. Immobilien KG

Levelling system for oil production platforms "Asgard B" and "Kristin"



2005
Radiator production line Quinn, Ireland



In 1996, at the same time as the company's 50th anniversary, the new building was completed and the office building (Dechenstraße 7) was occupied. As early as 1996, the DIN EN ISO 9000 quality management system was introduced and Winter was successfully certified. Until today, the QM system is successfully implemented, adapted to the new requirements and regularly audited and certified.

In 1997, the project planning and delivery of 600 L extinguishing water units "Aqua Safe" took place for Kidde Deugra GmbH, Ratingen. The cooperation has continued successfully until today. In the following years, further extinguishing aggregates and halon recycling plants were delivered.

In 2000, Dipl.-Kfm. Thomas Winter joins the company as a further managing partner.

In 2001, Dr.-Ing. Markus Osterloh joins the company. Shortly after joining the company, Mr Osterloh takes over the technical management of the company together with Stefan Winter.

First WetCut 55 wet cut-off machine, the PowerMet 3000 (for Buehler, Düsseldorf)





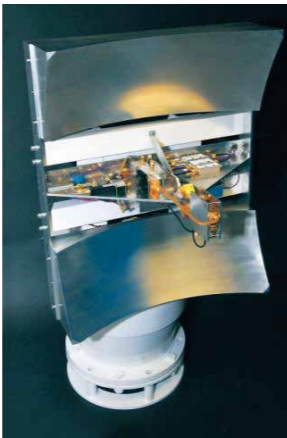
2006 — 2007 — 2008 — 2009 — 2010 — 2011 — 2012 — 2013 — 2014 — 2015

2006
60th anniversary

2007
Development of outdoor geardrives



2010
Delivery of the prototypes PATRIOT Rotator and Pan/Tilt



2009
Winner of first place in the top technology competition "Hightech.NRW" with the funded project "Airport runway monitoring through multimodal, networked sensor technology, LaotSe"



2014
Further development of an energy-efficient drive concept for convector units

2008
Delivery of pipe testing equipment to Arcelor Mittal



2008
Move into the assembly hall taken over, Dechenstraße 3a



2015
Development of a rotator for scan operation meteorology application (for Gamic, Aachen)

Completion of the hall Dechenstraße 5



Just Winter, who had led the company since 1964, officially retired from the management in 2007.

The assembly capacities were considerably expanded in 2008 when the company moved into the assembly hall (Dechenstraße 3a). In 2009, Winter won first place in the "Hightech.NRW" top technology competition with its cooperation partners the Fraunhofer Institute, Wachtberg, and the Zess (University of Siegen). This is also the starting point for the development of a rotor for scanning meteorology applications (Gamic, Aachen), which is now ready for series production.

At the end of 2015, another hall was completed at Dechenstraße 5, which is currently not used by the company itself.



2016



2016

Start of production and assembly of oil-hydraulic coin presses for Sack & Kiesselbach, Meerbusch

70th company anniversary



2017

2017

Start of small series production of pneumatic retarding devices for fire protection (VdS-certified production facility for gas extinguishing systems)



Fully automatic roll profiling system with turning reel for one of the world's largest household appliance manufacturers



2018

2019



2019

Supply of press cylinders for the 800 ton press

Presentation of the WetCut 110 wet cutting machine (11 kW drive power) at the trade fair CONTROL

2020

2020

Delivery of an 800 ton press for the production of radiator shells (to Stelrad, Nuth, NL)

2021

2021

75th company anniversary



2016 start of production and assembly of oil-hydraulic coin presses for the company Sack & Kiesselbach, Meerbusch.

2017 small series production of pneumatic delay devices for fire protection begins. In the course of this, Winter becomes a VdS-certified manufacturing facility for gas extinguishing systems and undergoes annual testing by the VdS in Cologne.

In 2019, the WetCut 110 wet separator (11 kW drive power) is presented for the first time at the CONTROL trade fair in Stuttgart. 2020 project planning and delivery of an 800 ton press for the production of radiator shells to Stelrad, Nuth, NL.

2021 we celebrate the 75th company anniversary under pandemic conditions.



A look into the future



After three quarters of a century full of challenges in project work, in finding and retaining customers, in maintaining a qualified staff and in constantly adapting to new requirements and regulations, we are optimistic about the tasks ahead.

We are pleased with the milestone we have reached in the knowledge that many more challenges await us in the coming years. With the experience of the past and the continued support of our long-standing emp-

loyees, partners and suppliers, as well as the trust of our customers, we look forward to the future with optimism and excitement.

Thank you for your interest in this review of the company's 75-year history **WILHELM WINTER GmbH & Co. KG, Mechanical Engineering, Ratingen**

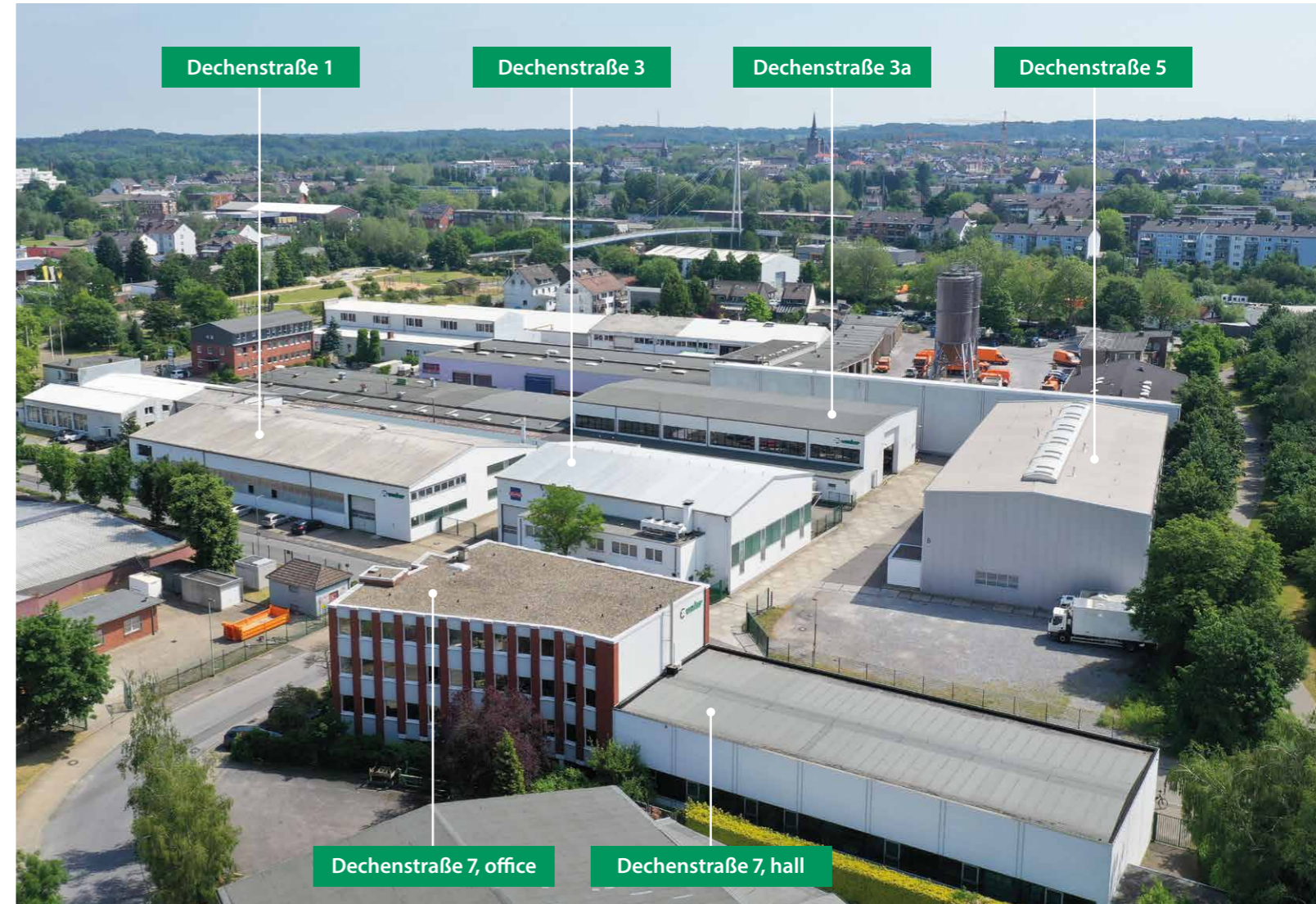
Climate protection and sustainability

The aspects of sustainability and life-time cycle have always been anchored in our company policy. In all machines and systems, components of different materials are screwed together and enable both simple repair and recycling of separate materials.

Modernisation of older systems is thus possible even after several decades by replacing control and drive components as well as wearing parts. For example, after more than 20 years of operation, the antenna positioners of the German Federal Network Agency and the German Federal Armed Forces (PATRIOT) were thoroughly overhauled, equipped with new control systems and thus brought up to a standard for use in the coming decades. After more than 20 years of use at the customer's site, complete conveyor production lines are now being overhauled in our factory with the same performance parameters as when they were delivered.

In the last decade, we have also implemented resource-saving projects such as new drive concepts in the production facilities, energy-efficient radiant ceiling heating systems, energy-efficient building renovations and LED lighting systems in all buildings.

Strict separation of waste and recyclables as well as waste avoidance have been part of our company's self-image for many years.



The background of the entire page is a light blue technical drawing or blueprint, showing various mechanical components and lines. A dark grey horizontal band is positioned across the middle of the page, serving as a background for the main text.

75 1946 – 2021 YEARS INNOVATION



winter
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