

Introduction

EWK Umwelttechnik GmbH

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GERMANY

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Subsidiaries: EWK Anlagentechnik (CH)
POLY-LICHT GmbH
Management: Peter Ohlenschläger



We are ...

- ... supplier of exhaust air, waste gas and process gas purifying systems
- ... competent partner in all questions of environmental protection for many decades
- ... offering proven technology
- ... specialist for system approaches under economic and ecological criteria.



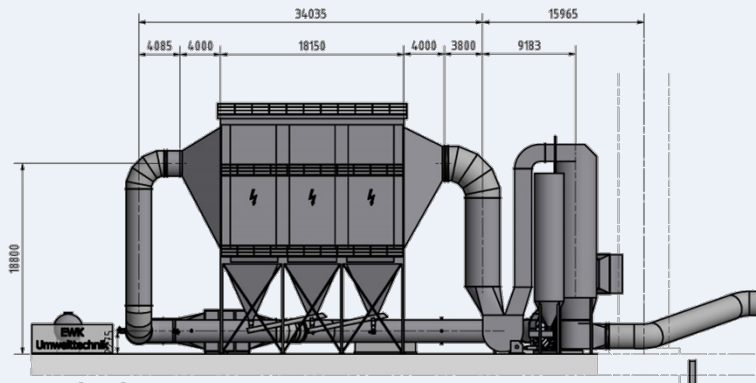
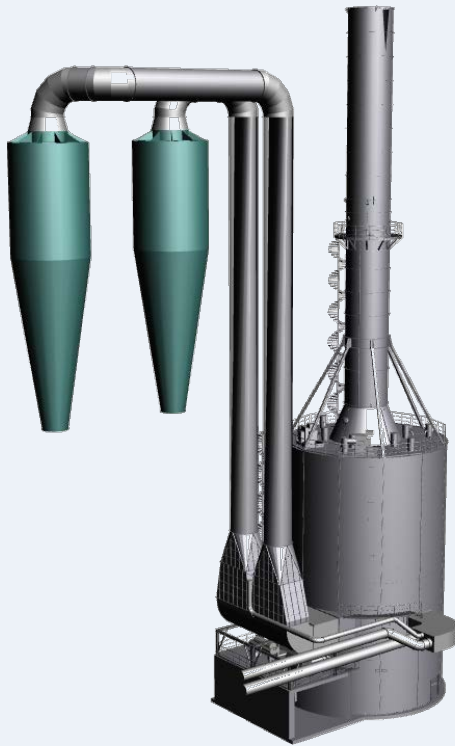
Innovative
environmental technologies

ECONOMIC IN ECOLOGY

We offer ...

- Planning
- Engineering
- Construction
- Fabrication
- Installation
- Control system
- Commissioning
- Service

Turnkey solution



Company history

Foundation	1868	Albert Munzinger Holzindustrie
Management	1880	Gottfried Zschocke
Rename	1910	ZSCHOCKE WERKE AG, Kaiserslautern
Takeover	1968	by EWK EISENWERKE KAISERSLAUTERN GmbH
Foundation	1979	Eisenwerke Kaiserslautern Entwicklungsgesellschaft mbH
Rename	1987	EWK-ZSCHOCKE Umwelttechnik und Anlagenbau GmbH
Rename	2000	EWK Umwelttechnik GmbH
Takeover	2002	by LÜHR FILTER GmbH / Peter Ohlenschläger



Albert Munzinger
Founder (1868)



Karl Munzinger
Participator (1890)

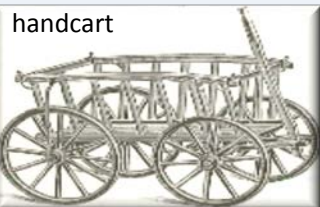


Gottfried Zschocke
Management (1880)

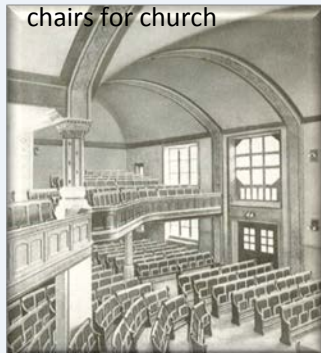


Heinrich Zschocke
Inventor ESP (1913)

Company history



handcart



chairs for church



butter machine



milk separator



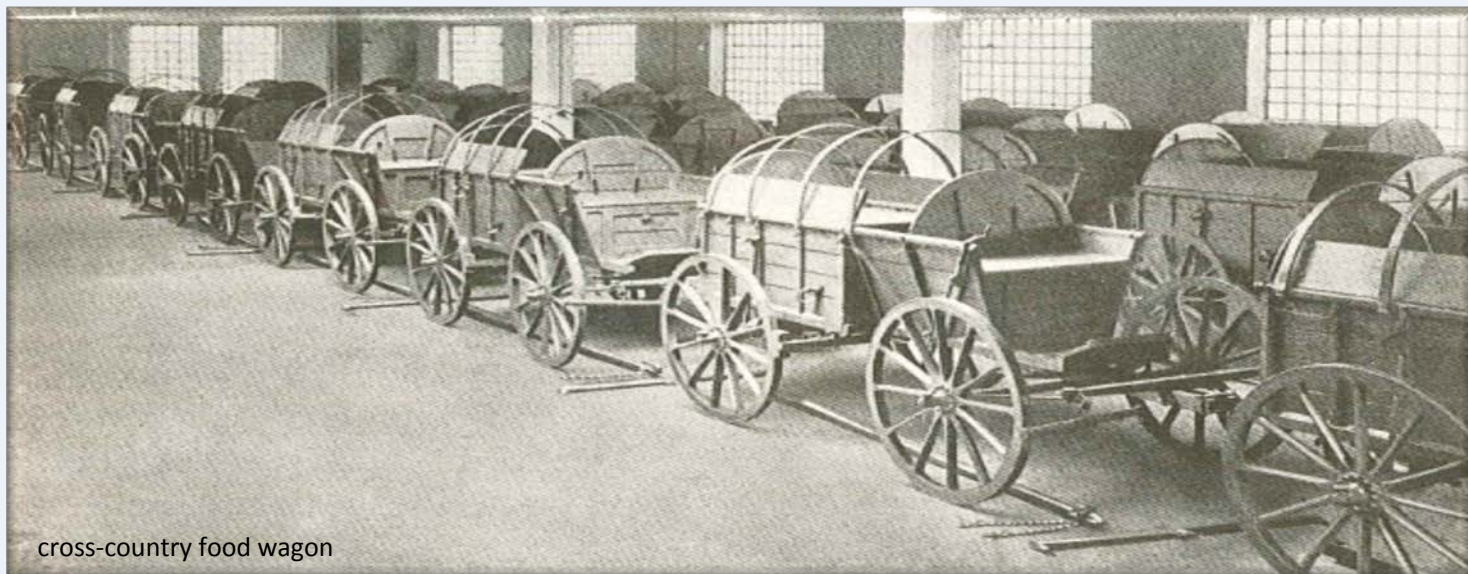
school furniture



trailer mail transport



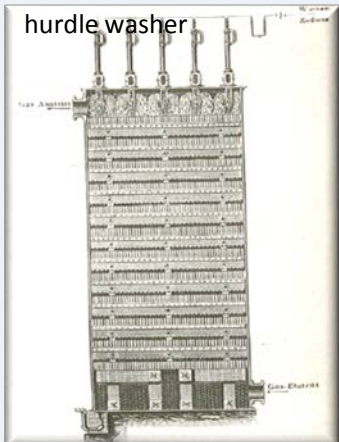
canteen furniture



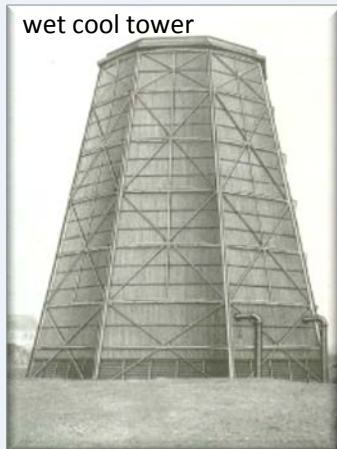
cross-country food wagon

Company history

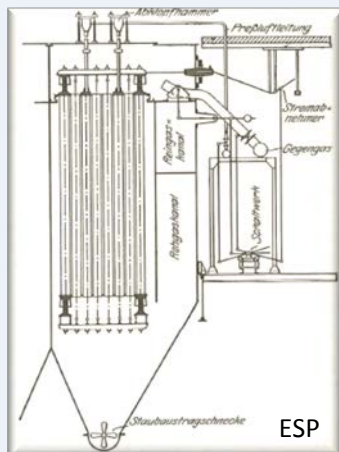
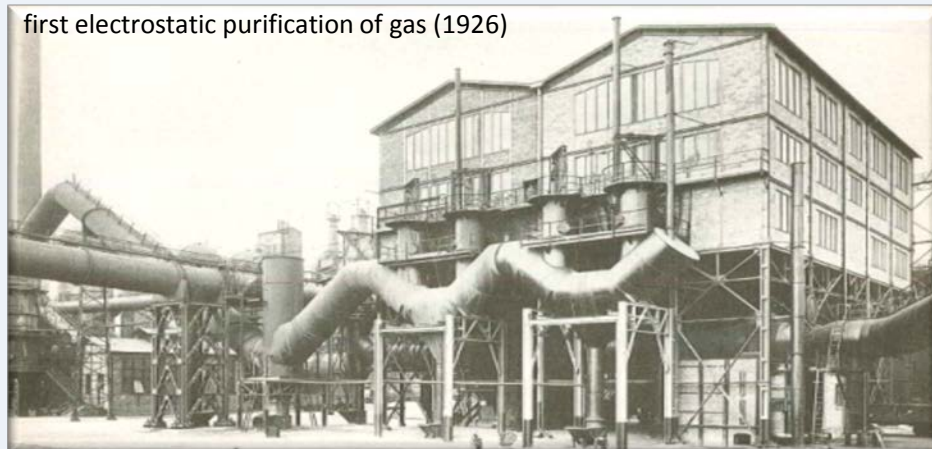
hurdle washer



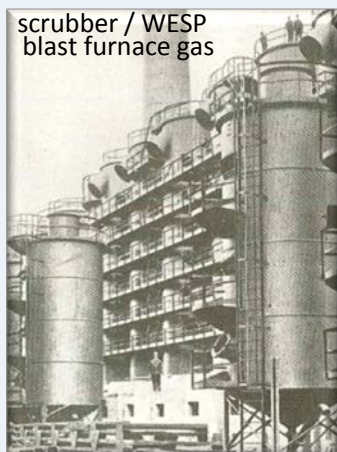
wet cool tower



first electrostatic purification of gas (1926)



scrubber / WESP
blast furnace gas



cooling towers



Locations



Trade Marks

 [®] ZSCHOCKE for air, exhaust and process gas cleaning systems and for “ZSCHOCKE” Cooling Towers
 EW KAT[®] for catalytic gas cleaning systems

Representatives

Switzerland
 Italy
 Poland
 Brazil
 China

Branch Offices

South Korea
 Spain / Portugal
 Italy
 Sweden, Norway
 New Zealand
 Australia

Country Activities

Europe
 PR of China
 South Korea
 Taiwan
 Australia
 New Zealand
 Canada
 South Africa
 Brazil, Argentina, Chile
 USA
 Russia

Certificate

Standard **ISO 9001:2008**

Certificate Registr. No. 01 100 020435

TÜV Rheinland Cert GmbH certifies:

Certificate Holder: 
 Kantstraße 5
 D - 67655 Kaiserslautern

including the locations according to annex

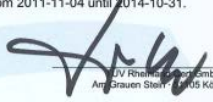
Scope: Development, design and supply of:

- exhaust and process gas cleaning systems
- heat recovery systems
- waste water treatment systems
- LED lamps

An audit was performed, Report No. 020435. Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled.
 The due date for all future audits is 31-10 (dd.mm).

Validity: The certificate is valid from 2011-11-04 until 2014-10-31.
 First certification 2002

2011-11-04


 TÜV Rheinland Cert GmbH
 Am Grauen Stein 100 5 Köln


 DGA-ZM-58-95-00

www.tuv.com


 Precisely Right.

Portfolio

Vertical
wet electrostatic precipitator



Horizontal
wet electrostatic precipitator



Dry electrostatic precipitator



Catalytic gas cleaning system



Wet absorber



Bag filter



Heat recovery system



Back flush filter



Products / Services / Field of industries

Products and services

- DRY ELECTROSTATIC PRECIPITATORS (DRY ESP)
- WET ELECTROSTATIC PRECIPITATORS (WESP)
- SCRUBBERS / WET ABSORBER (NAB)
 - venturi scrubber
 - spray scrubber
 - bed scrubber
- FABRIC FILTERS (FAB)
 - bag filters (horizontal, vertical and oval)
 - dry sorption
 - flue gas coolers
- CATALYTIC SYSTEMS (CAT)
 - selective catalytic reduction (SCR-DeNOx)
 - oxidation process systems
- SYSTEM COMBINATIONS
- HEAT RECOVERY SYSTEMS (HRS)
 - water/air
 - water/water
 - gas/gas
- WATER PURIFICATION SYSTEMS (WAB)
 - ultra filtration
 - mechanical filtration
- AFTER SALES SERVICE
- CONSULTING AND PLANNING

Field of industries

- Steel industry
- Coal industry
- Mineral wool and glass industry
- Plastic and chemical industry
- Gypsum and cement industry
- Wood Industry (chipboard, MDF, OSB, HDF)
- Energy generation (oil, gas, biomass)
- Food industry (distillery, olive oil production, grass desiccation)
- Industrial waste incineration (solid and liquid waste, explosive)
- Varnishing plants
- Metal industry (metal cutting, reshaping)
- Foundry industry
- Automotive industry
- Quarrying
- Paper mills and pulp manufacturer

Manufacturing



Manufacturing

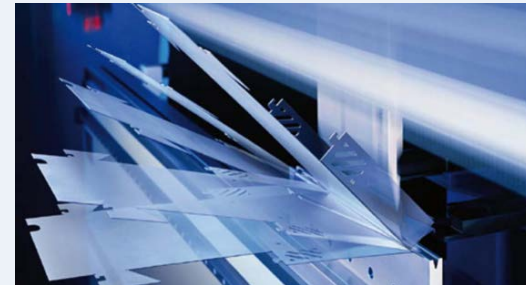
effective cutting

- Laser & pressing technique
- Plasma torch



metal forming

- CNC trimming press



welding

- MIG, MAG, WIG & Orbital welding



surface treatment

- quality control by acid cleaning
- electrolytic polishing
- grit & shot blasting and coating



Manufacturing



Cyclons



material: stainless steel 1.4301, 1.4571, 1.4404, a.s.o.

surface: acid cleaned, blasted, coated, a.s.o.

Tanks



Tank for press liquid sump



Tank for flotation system

length: 11.00 m

width: 4.00 m

height: 2.50 m

weight: 8,000 kg

material: stainless steel 1.4301

Piping & ducts



Stack



diameter: 3.30 m
height: 25.00 m
weight: 16,000 kg
material: stainless steel 1.4301

Compact scrubber / WESP



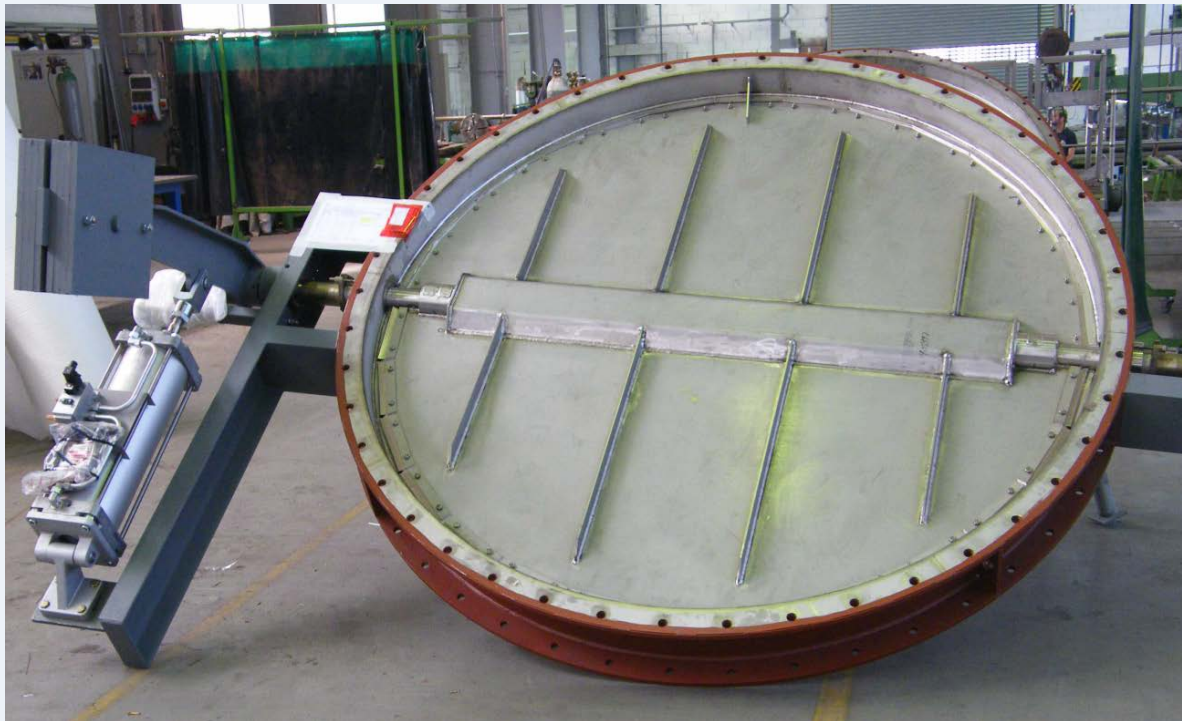
diameter: 3.20 m
height: 18.00 m
weight: 16,000 kg
material: stainless steel 1.4301

Precipitator elements



length: 6.00 m
width: 3.00 m
height: 3.00 m
weight: 2,300 kg
material: stainless steel 1.4301

Damper



diameter: 2.35 m
weight: 1,200 kg
material: stainless steel 1.4301
steel S235JR

Installations



Vertical WESP

diameter: 13.00 m

height: 25.00 m

weight: 42,000 kg

material: stainless steel 1.4301

Installations



Two parts oval design for economic site cost

length: 6.50 m

width: 4.20 m

height: 17.20 m

weight: 16,000 kg

material: stainless steel 1.4307



Installations



Three parts oval design (Spain 2013)

length: 9.05 m

width: 5.60 m

height: 17.20 m

weight: 24,000 kg

material: stainless steel 1.4307



Installations



**duct works, piping
support steel construction**



Installations



DRY ESP with dry sorption and SCR-DeNO_x

15-05-04

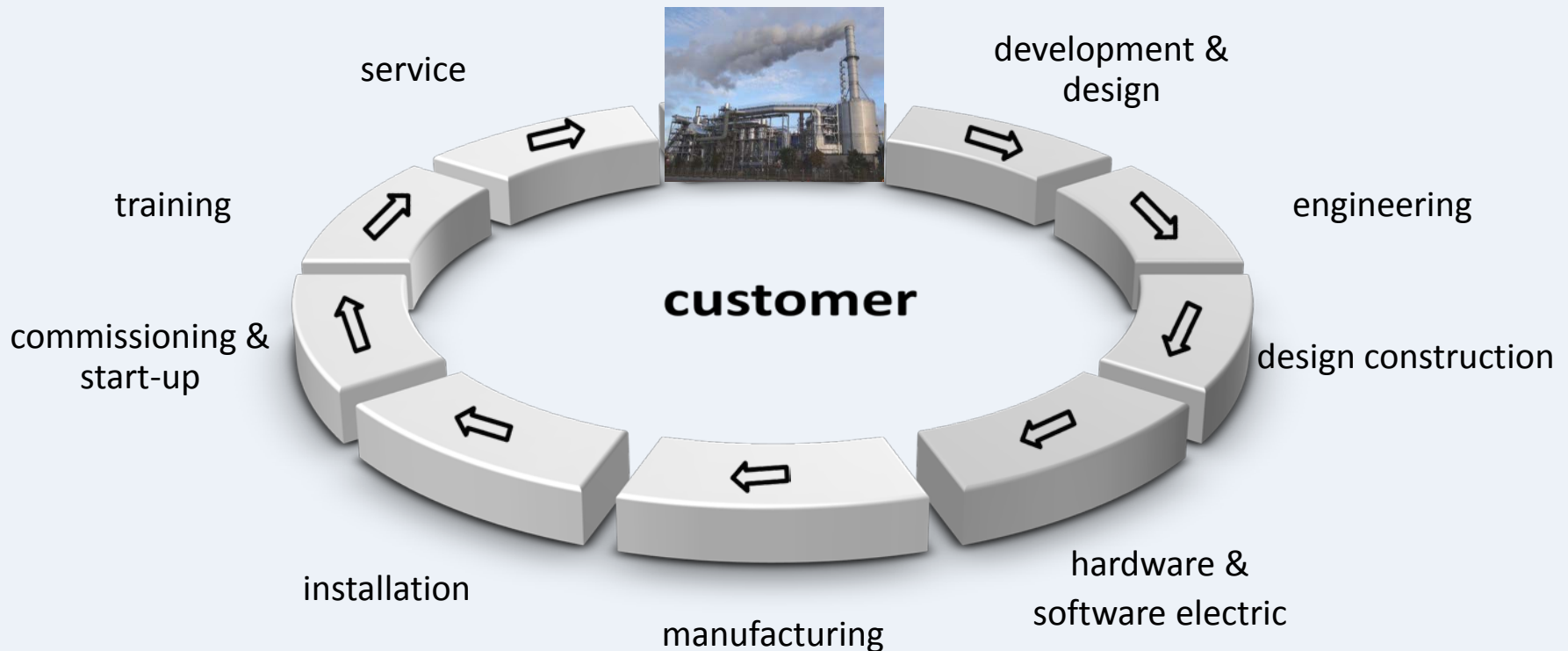


Catalytic system

Installations

25

Motivation



EWK in numbers

founded	1868
employees	50 – 60
freelancers engineering	5 – 10
assembly partners	5 – 25
turnover	15 – 25 Mio. €
office area	3,200 m ²
workshop area	2,800 m ²
storage inside	600 m ²
storage outside	12,000 m ²
total area	15,400 m ²
Trade register	Kaiserslautern HRB 2248
Registration No.	16/673/00140
VAT No.	DE 218639562