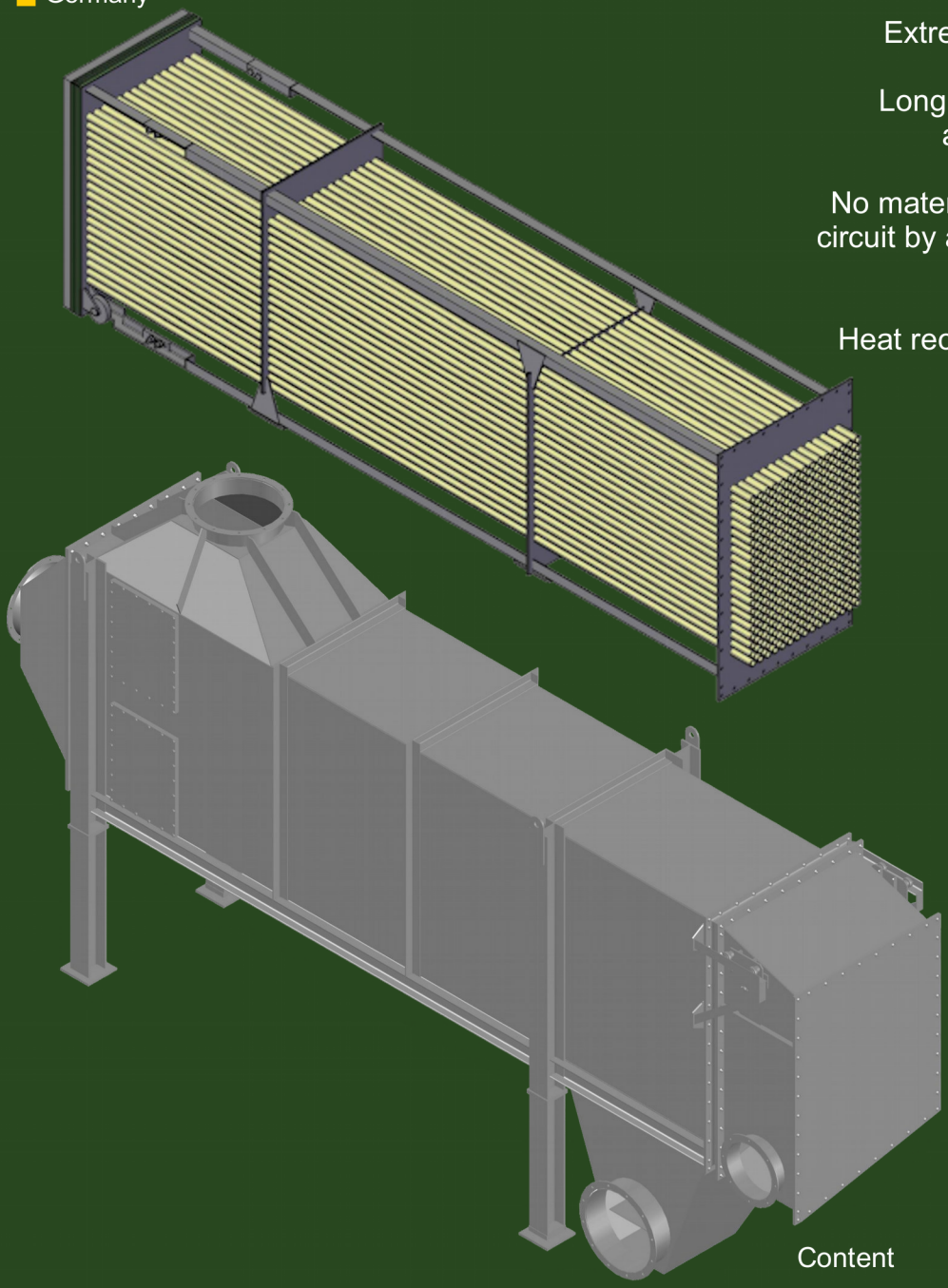
AIR / AIR COOLER
TYPE AAC

- AIR / AIR COOLER
- HEAT RECOVERY SYSTEM POSSIBLE
- SPECIAL THERMAL EQUIPMENT

ZANNI GROUP™

made
in
Germany



A NEW COOLER DESIGN

Extremely easy to maintain.

Long resistant against heat, acids and abration.

No material attack of the secondary circuit by aggressive media enables a long service life.

Heat recovery via clean cooling air possible.

Content

Patented design
Patent no. 20 2020 000 033
DPMA.

THERMAL ENGINEERING

Know-How for clean solutions

For decades we have been supplying mechanical, electrical, control and regulation technology for every main or auxiliary system of thermal plants and power stations.

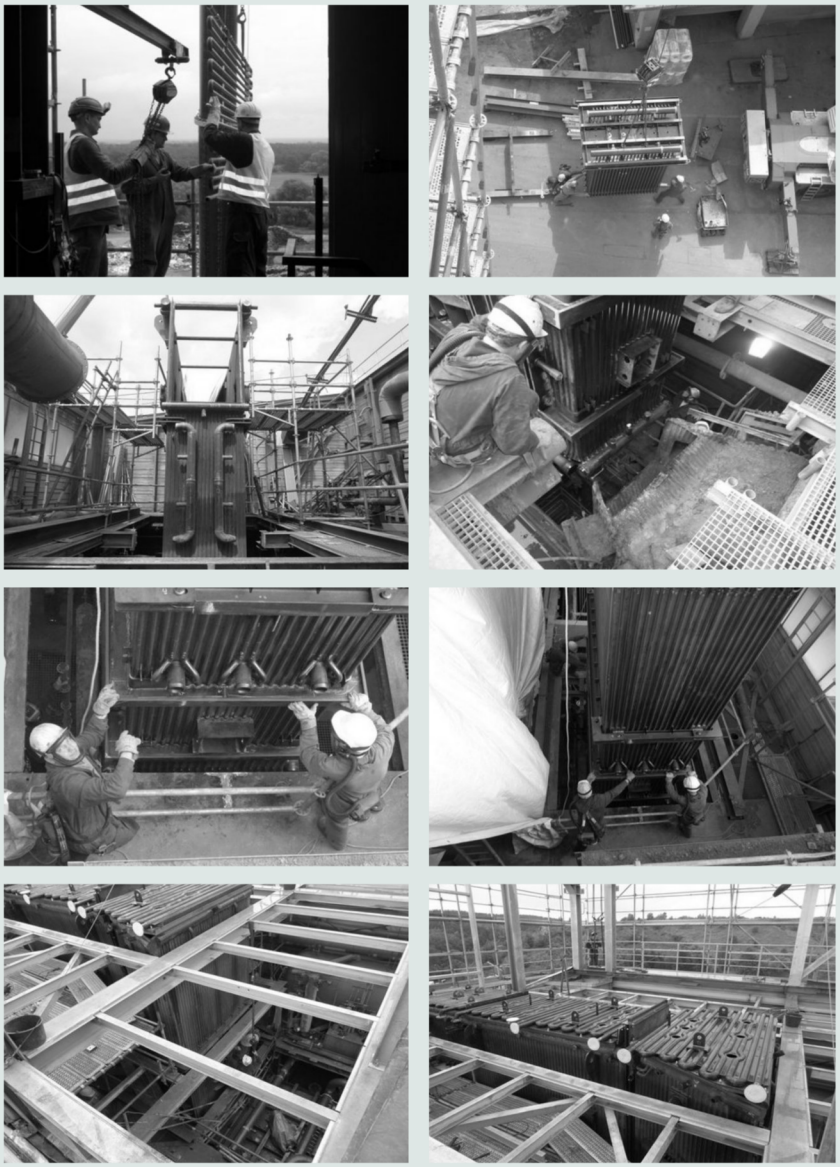
Over the years, we have therefore gained extensive experience in the power plant and power generation sector.

Modernisation, retrofitting, refurbishment and upgrading of existing plants and boiler equipment, such as burners,

Burner control, sootblowers, furnace equipment and more are included in our delivery range.

In the past, we have used old-fashioned technology that reliably fulfilled its tasks, but reached its limits in the area of wear and tear and also in maintenance.

We took a closer look at these problems and created a new type of cooler that is easy to maintain.



But easy to maintain is not the only target what we had focused on.

The new design is long resistant against heat, abration and acids which is naturally dependent on selected materials.

Since the cooling circuit is shielded from the flue gas and the heat and thus energy transfer to the cooling air is due to the engineering enormous, it is nearly inevitable that this cooling air can be used further and thus the efficiency of a plant can be increased.

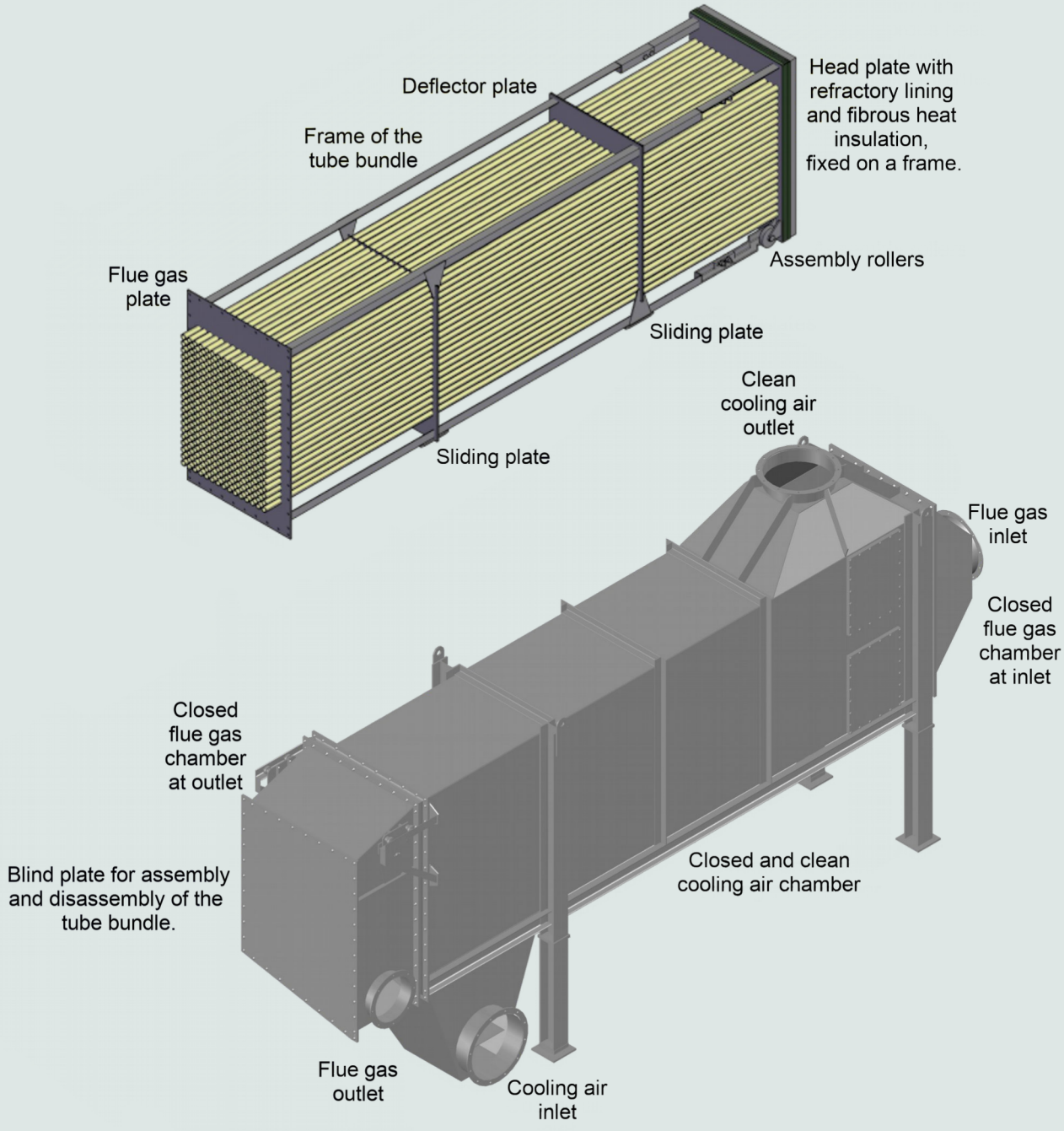
Of course also the efficiency of an older, existing plant can be increased.

A calculation for your system is available on request.

Advantages of the
NEW COOLER DESIGN

- Extremely easy to maintain.
- Long resistant against heat. *
- Long resistant against acids. *
- Long resistant against abration. *
- No material attack of the secondary air cooling circuit by aggressive media. *
- Heat recovery via clean cooling air possible.
- Long service life.

* depending on the customized and selected materials



Maintenance and replacement of a pipe bundle
NEW COOLER DESIGN

Who has ever carried out cooler and boiler maintenance knows what a great effort and also which shut down time of the plant is required.

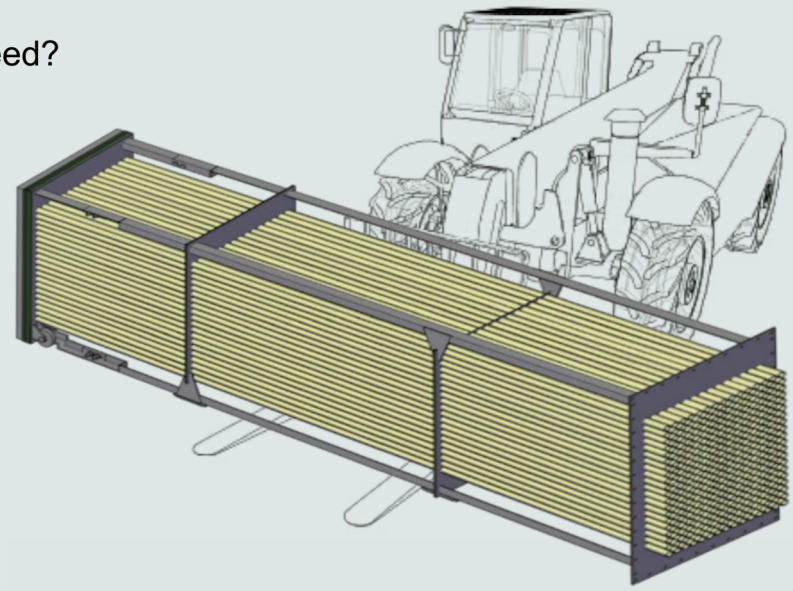
Now we will show you step by step what easy maintenance and replacement of a pipe bundle as a classic wear part of the new cooler design means.

Replacing of the pipe bundle:

1. Tighten 4 pieces safety bolts of the compensator to prepare it for removing,
2. prepare the fluegas outlet box for removing by means of a lifting device,
3. untighten and remove 46 pieces screws connecting the compensator to the cooler body,
4. remove the fluegas outlet box together with the compensator,
5. untighten and remove 4 pieces set screw of the pipe bundle, located at the end of gas inlet side of the cooler body (two at the left side and two at the right side),
6. remove 4 pieces manhole covers (each has 24 pieces screws) at the gas inlet side of the cooler body, two at left and two at right,
7. tighten 2 pieces bolts on each longitudinal frame element of the pipe bundle to prepare the bundle for removing (after removing the manhole covers, these elements are accessible now),
8. untighten and remove 46 pieces screws connecting the pipe bundle flange to the cooler body's flange,
9. lift the pipe bundle flange slightly and gently and pull it out slowly. Before it is completely out of the body, prepare a lifting facility to lift also the other end of the bundle for removing it completely out of the body.
10. After pipe bundle is completely removed, check the inside of the body.
11. Clean and maintain the body inside and ensure that there is no restriction for putting the new pipe bundle inside.
12. If everything is OK, apply the above in reverse order, with the new pipe bundle.

The job is then well done!

How much time do you think you will need?
What effort will be required?
Do the math yourself.



Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2020 000 033

Bezeichnung:
Wärmetauscher mit austauschbaren Rohrbündeln

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Inhaber/Inhaberin:
Zanni + Partner Ltd., 44866 Bochum, DE

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Tag der Eintragung:
12.02.2020

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer
München, 12.02.2020

DEUTSCHES PATENT- UND MARKENAMT

Die Voraussetzungen der Schutzfähigkeit werden bei der Eintragung eines Gebrauchsmusters nicht geprüft.
Den aktuellen Rechtsstand und Schutzumfang entnehmen Sie bitte dem DPMAregister unter www.dpma.de.

IMPRINT

Zanni + Partner Ltd.
Winnington House
2 Woodberry Grove
Finchley
London N12 0DR
United Kingdom
Phone: +44 20 39661659
email: mail@zanni.ltd

Impressum: https://zanni.ltd/Legal-Information/Impressum/

LOCAL OFFICE

Branch office Bochum
ZANNI GROUP
Zanni + Partner Ltd.
Brauhof 12
44866 Bochum

Phone: +49 2327 4178191
Fax: +49 2327 4178192
Email: mail@zanni.de