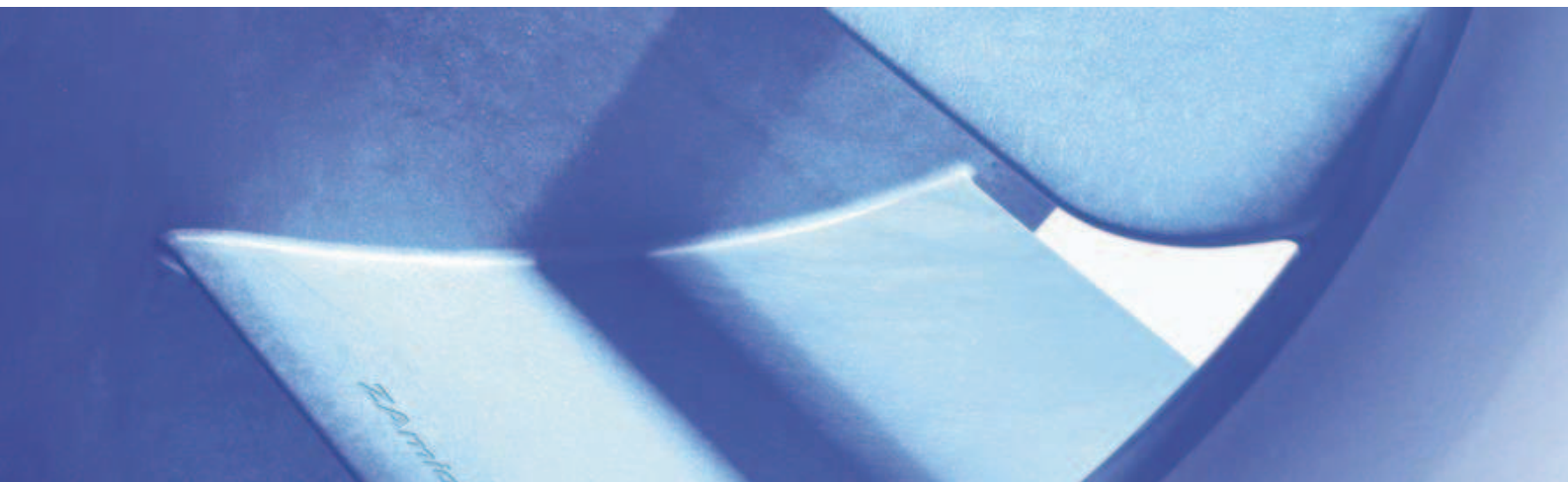
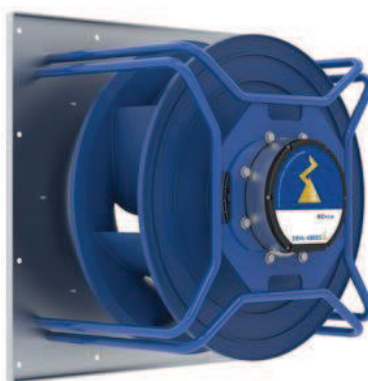


Movement by Perfection



The Royal League in **ventilation**, control and drive technology



Product documentation

Type
GR50C-ZID.GL.CR

Article number
116178/A01

Beijing Hengrui Mechanical and Electrical Equipment Co.,Ltd
+86 10-62547612
zhangyu@bjhengrui.cn
en.bjhengrui.com

1. Recitals

The Product Specifications contained in this document are final, unless otherwise stated by a separate provision in the "ZIEHL-ABEGG deviation list document" with respect to information provided by the customer (cp. separate Chapter: Attachment).

Other regulations between the parties, regardless of time, form or content, are not part of the subject matter of the contract and the agreement on characteristics/of features (Product Specifications) between the parties.

Compliance with the following specifications is mandatory to ensure the functionality and safety of the product. If the following specifications given especially but not limited for operating conditions, transport, storage, mounting, start-up, maintenance and repair are not observed, the product may not operate safely and may cause a hazard to the life and limb of users and third parties.

Deviations from the following requirements may therefore lead both to the loss of the statutory material defect liability rights and to the liability of the buyer for the product that has become unsafe due to the deviation from the specifications.

2. Product specification - Technical data

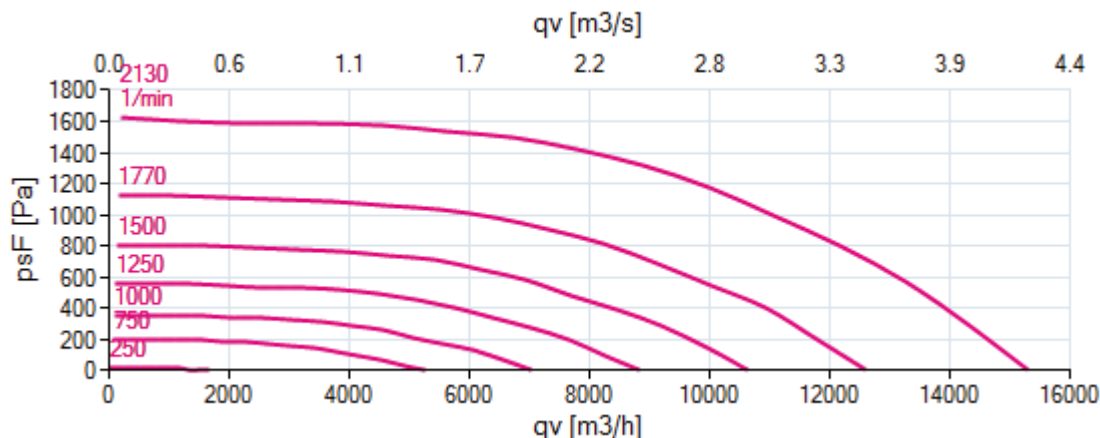
Article number	116178/A01
Type	GR50C-ZID.GL.CR
Designation	Ventilation unit with impeller with backward curved blades.
Rated values	3~380-480V 50/60Hz P ₁ 5.40kW 8.60-6.80A 2130min ⁻¹ 40°C
Electrical connection	Integrated controller
ErP Data	Measurement category ErP: A Air flow q _v on Eta opt: 11342 m ³ /h Pressure increase p _{fs} on Eta opt: 1030 Pa Input power P _{ed} on Eta opt: 5204 W Efficiency η _{statA} : 66.5 % Efficiency grade: N _{actual} = 69.5 / N _{target} = 62* *ErP 2015
Min. operating temperature	-20°C
Thermal class	Thermal class 155
efficiency class	IE5
IO-function	BASIC-MODBUS
coating rotor	Rotor 1 coat paint resistance class 1 (L-TI-0596)
Colour sheet rotor	RAL 5002 (ultramarine blue)
Material impeller	Impeller made of ZAmid
Colour impeller	like RAL 5002 (ultramarine blue)
Connection diagram	AP00001C
Installation position	Fitting position H/Vu/Vo
Fitting position mot	Mounting position H/Vu/Vo
Motor protection	integrated active temperature management
Type of protection	IP55
Impregnation	Moisture and hot climate protection
Inlet cone	Inlet nozzle with measuring device for volume flow
Quality of bearings	ball bearing with long-time lubrication
Labelling UL/CSA	E213826 ZB-155, MK152-0013
Colour motor	Stator/rotor separately
Balance quality	G 2,5
Weight	54.00 kg

3. Characteristic Curve

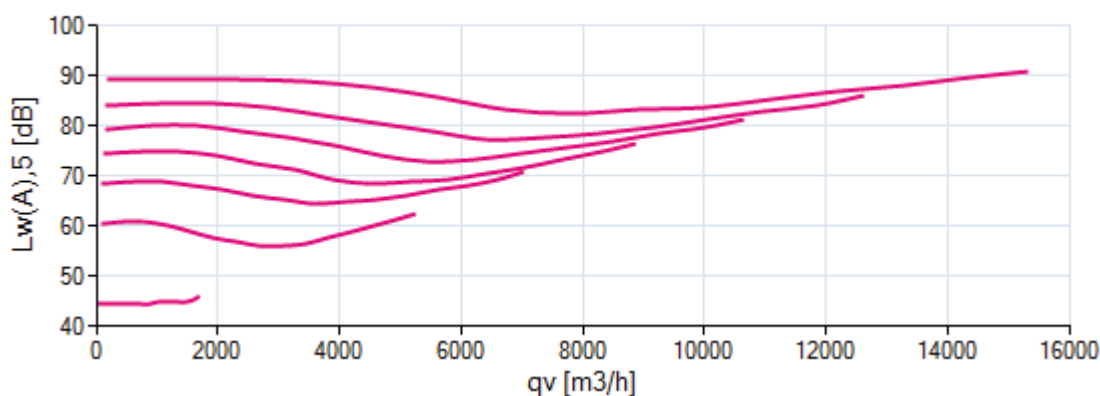
GR50C-ZID.GL.CR
3~ 400V 50Hz

measured in standard nozzle in installation type A according to ISO 5801
measurement density 1,16 kg/m³

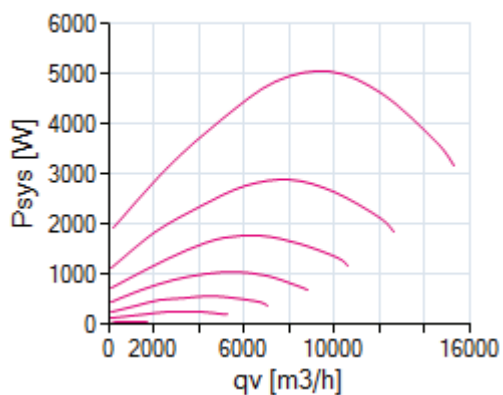
Air performance



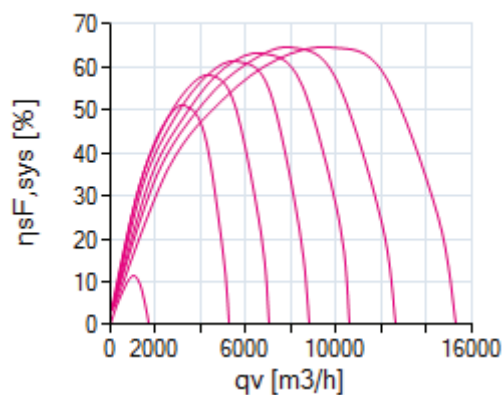
Acoustics



Power input



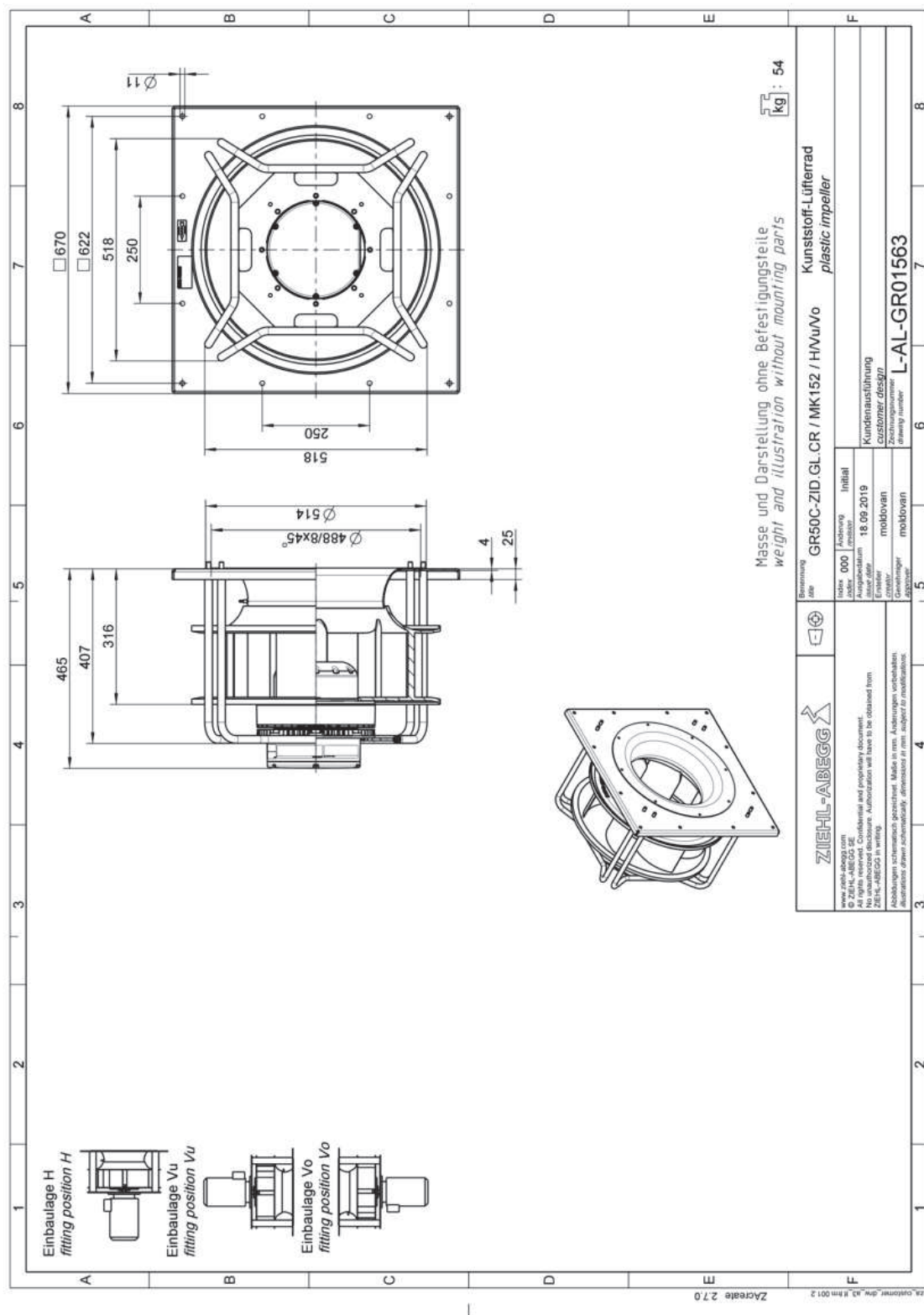
Efficiency



Please note: It's not allowed to use this fan in the stall area!*

*In doubt please ask your responsible ZIEHL-ABEGG sales contact.

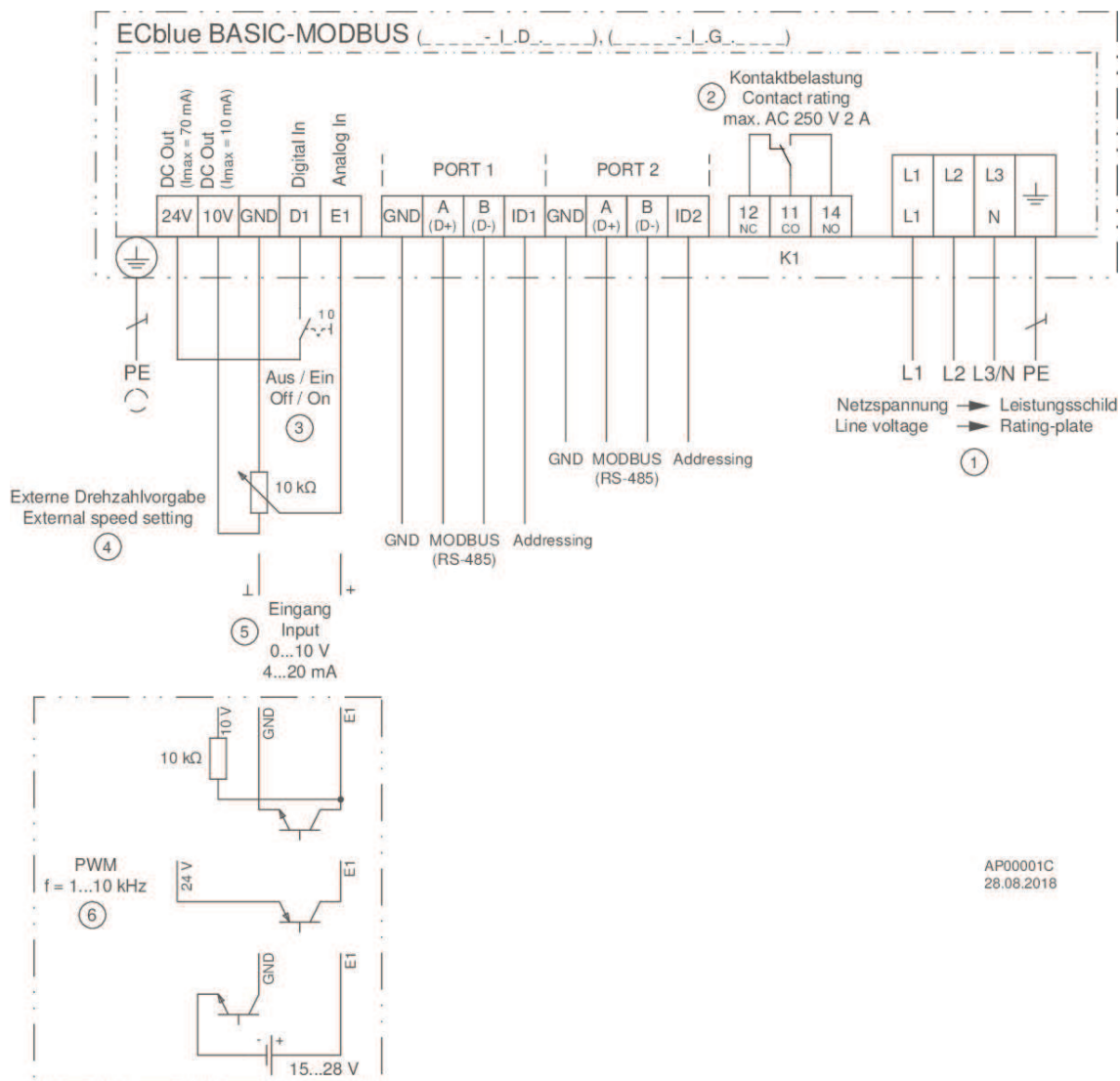
4. Drawing



Dimensions in mm

The illustrations shown make no claim to completeness and are for orientation purposes only.

5. Connection diagram



6. EU-Declaration of conformity

EU declaration of conformity

- Translation -
(english)

ZA75-GB 2044 Index 016

Manufacturer:
ZIEHL-ABEGG SE
Heinz-Ziehl-Straße
74653 Künzelsau
Germany

The manufacturer is solely responsible for issuance of the declaration of conformity.

The products:

- External rotor motor MK..., MW..
- Axial fan DN..., FA..., FB..., FC..., FE..., FF..., FG..., FH..., FL..., FN..., FS..., FT..., FV..., VN..., VR..., ZC..., ZF..., ZG..., ZN..
- Centrifugal fan ER..., GR..., HR..., RA..., RD..., RE..., RF..., RG..., RH..., RK..., RM..., RR..., RZ..., WR..
- Cross-flow fan QG..., QK..., QR..., QT..

The motor type:

- Asynchronous internal or external rotor motor
- Asynchronous internal or external rotor motor with integrated frequency inverter
- Electronically commutated internal or external rotor motor
- Electronically commutated internal or external rotor motor with integrated EC controller

These products comply with the following EU directives:

- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- ErP Directive 2009/125/EC, in conjunction with Regulation (EU) no. 327/2011

The following harmonised standards have been used:

- EN 60034-1:2010 + AC:2010
- EN 60204-1:2006 + A1:2009 + AC:2010
- EN 60529:1991 + A1:2000 + A2:2013 + AC:1993 + AC:2016 + AC:2019
- EN 61000-6-2:2005 + AC:2005
- EN 61000-6-3:2007 + A1:2011 + AC:2012

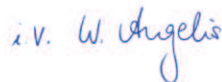
Compliance with the ErP Directive 2009/125/EC does not refer to external rotor motors MK..., MW..

All ErP-relevant information comprises measurements which are determined using a standardised measurement set-up. More details can be obtained from the manufacturer.

Compliance with the EMC Directive 2014/30/EU refers only to those products when they are connected by mounting / operating instructions. If these products are integrated into a system or supplemented with other components (e.g. sensing controls) and operated, the manufacturer or operator is responsible of the overall system for compliance with the EMC Directive 2014/30/EU.

Künzelsau, 28.10.2020
(location, date of issue)

ZIEHL-ABEGG SE
Dr. W. Angelis
Head of Technics Ventilation Technology
(name, function)



(signature)

ZIEHL-ABEGG SE
Dr. D. Kappel
Head of Electrical Systems
(name, function)



(signature)



EC Declaration of Incorporation

- Translation -
(english)

as defined by the EC Machinery Directive 2006/42/EC, Annex II B

ZA87-GB 2044 Index 009

The design of the incomplete machine:

- Axial fan DN..., FA..., FB..., FC..., FE..., FF..., FG..., FH..., FL..., FN..., FS..., FT..., FV..., VN..., VR..., ZC..., ZF..., ZG..., ZN...
- Centrifugal fan ER..., GR..., HR..., RA..., RD..., RE..., RF..., RG..., RH..., RK..., RM..., RR..., RZ..., WR...
- Cross-flow fan QD..., QG..., QK..., QR..., QT...

Motor type:

- Asynchronous internal or external rotor motor (also with integrated frequency inverter)
- Electronically commutated internal or external rotor motor (also with integrated EC controller)

complies with the requirements in Appendix I, Articles 1.1.2, 1.1.5, 1.4.1, 1.5.1 in EG Machinery Directive 2006/42/EG.

The manufacturer is

ZIEHL-ABEGG SE
Heinz-Ziehl-Strasse
D-74653 Künzelsau

The following harmonised standards have been used:

EN 60204-1:2006 + A1:2009 + AC:2010	Safety of machinery; electrical equipment of machines; Part 1: General requirements
EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction
EN ISO 13857:2008	Safety of machinery; safety distances to prevent danger zones being reached by the upper limbs
Note:	The maintenance of the EN ISO 13857:2008 relates only to the installed accidental contact protection, provided that it is part of the scope of delivery.

The specific technical documentation in accordance with Appendix VII B has been written and is available in its entirety.

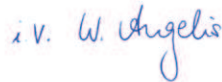
The person authorised for compiling the specific technical documentation is: Dr. W. Angelis, address see above.

The specific documentation will be transmitted to the official authorities on justified request. The transmission can be electronic, on data carriers or on paper. All industrial property rights remain with the above-mentioned manufacturer.

It is prohibited to commission this incomplete machine until it has been secured that the machine into which it was incorporated complies with the stipulations of the EC Machinery Directive.

Künzelsau, 28.10.2020
(location, date of issue)

ZIEHL-ABEGG SE
Dr. W. Angelis
Head of Technics Ventilation Technology
(name, function)



(signature)

ZIEHL-ABEGG SE
Dr. D. Kappel
Head of Electrical Systems
(name, function)



(signature)

ZIEHL-ABEGG 



The Royal League in ventilation, control and drive technology

Intelligent control technology for any application

ZIEHL-ABEGG system capabilities:
Everything from a single source – perfectly matched for optimal performance

Please contact us. We would be pleased to design an individual solution for your requirements.

We would like to welcome you on our worldwide exhibitions. Please find our next exhibitions [here](#).