

THE ROSENBERG GROUP



[®] **ECOFT**
ETRI
rosenberg
THE AIR MOVEMENT GROUP



Rosenberg Ventilatoren GmbH

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THE ROSENBERG GROUP

Air conditioning and ventilation technology
is our world



Air is our element – moving it **intelligently and efficiently** is our passion.
Since 1981 we have been developing and producing adjustable external rotor motors,
fans and air handling units.

Our headquarters in Künzelsau is in the centre of the Heilbronn-Franken innovation area.
German Engineering skill is the basis of our development work and drives our innovation.
As a worldwide company we are represented where our customers need us.

With production sites and sales offices in more than 45 countries **we are present
worldwide** – a strong and reliable partner always within reach of our customers.

The continuous exchange of information between customers and employees comes first with us.
Consequently, we can permanently optimise products and quality to respond flexibly to all of our
customers' needs.



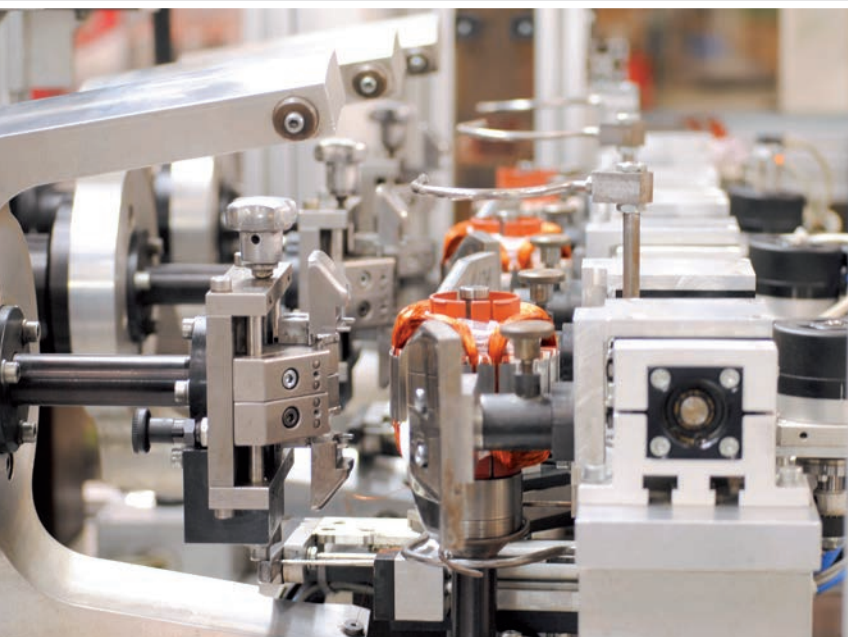
Established	1981
Employees	350 in Germany approx. 1,400 worldwide
Production sites	Künzelsau (GER), Glaubitz (GER), Waldmünchen (GER), Hungary, Czech Republic, Italy, France, Slovakia, Turkey, Mexico, China
Development centres (certified laboratory)	Germany, France, Hungary and China
Additional members of the Rosenberg Group	ROX Klimatechnik GmbH ECOFIT, ETRI, Airtècnics

AIR IS OUR ELEMENT

We offer intelligent solutions to move air efficiently -
no matter whether it is hot or cold.

OUR SUCCESS FACTORS

Production steps - Know How - Close customer relationships



The complete range of motors, fans and air handling units is mainly manufactured in the Rosenberg Group's own production sites. From technical advice via assembly to delivery of air handling units that are wired ready for connection, the customer receives **all services first-hand from the Rosenberg Group**.

Our production steps – from motor to controller – make us more independent from suppliers and allow us to respond flexibly to our customers' wishes. In short: **We are good at troubleshooting**. We are already in direct contact with the customer during the development and planning phase and therefore we can fulfil special requirements quickly and on an individual basis. Our aim is to ensure that our clients are satisfied.

About 1,400 **qualified and experienced employees** are employed in the punching plant, casting plant, as well as in the motor, fan, and air handling unit production to ensure immediate assembly and quick delivery.

In the production sites they work with modern production machines. Through a combination of human know how and innovative production technology we achieve a quality which meets the highest requirements.

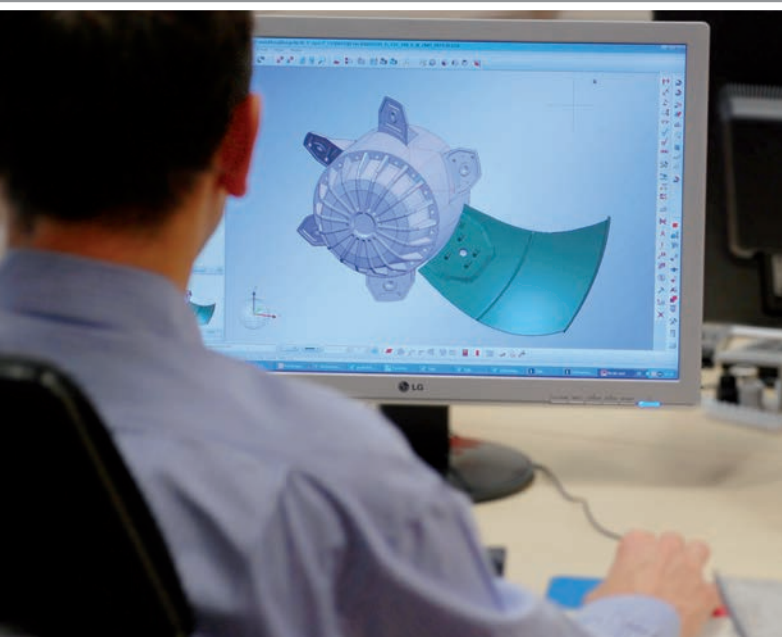


COMPLETE SOLUTIONS AT FIRST HAND

We combine many years of experience, innovative development and state-of-the-art production techniques.

OUR CLAIM

We stand for uncompromising quality



We do not make any compromises on the quality and reliability of our products. **We have obtained certification** according to DIN EN ISO 9001, as well as being members of the RLT-Herstellerverband Raumlufttechnische Geräte, the German manufacturers' association for ventilation and air conditioning equipment, which **confirm our expertise** and know how in the development and production of ventilation equipment.

In our own company laboratories we have **modern measurement equipment** at our disposal to measure and analyse the flow and sound characteristics of our fans and air handling units. Our test chambers for recording performance characteristics are tested and certified by TÜV Süd according to the European standard DIN EN 5801. Therefore the **reliability and accuracy** of the Rosenberg measurement equipment, and hence the accuracy of the products' performance data have been confirmed by an independent body.

The tested data and curves are the sole basis for our product catalogues and selection program.



OUR PRECISION IS MEASURABLE

... and you can count on that!



LEADING THE WAY!

Energy efficient EC technology



As a forward-thinking company, we identified long ago that a sensible processing of energy is of crucial **ecological and economic significance** – particularly with regard to CO₂ emissions and rising energy prices. Therefore our engineers and technicians are constantly working to improve the energy efficiency of our products – and with success: Our motors with modern EC technology are more than 90% efficient and **save up to 50% in energy** as opposed to conventional motor technology. The low energy consumption not only contributes towards protecting the environment but at the same time also reduces our customers' operating costs.

EC technology is much more than an "energy efficient wonder". EC motors are maintenance free and silent. The **integrated, intelligent controller** allows a continuous control and further additional functions like pressure, volume flow, or air quality control.

Our EC products **fulfil the strictest requirements** when it comes to energy efficiency, cost effectiveness and high air quality.

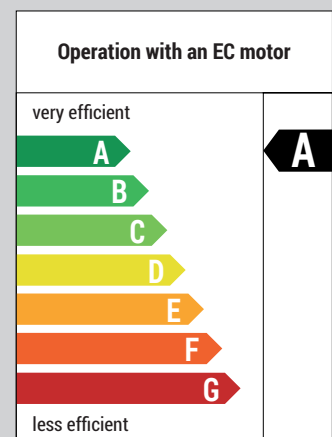
Advantages of EC technology

- very high degree of efficiency
- integrated controller (continuous control)
- very simple connection
- additional functions (pressure control, etc.)
- smaller-sized motor for the same level of performance
- less power consumption



FASCINATINGLY EFFICIENT

EC technology preserves the environment and reduces costs at the same time.

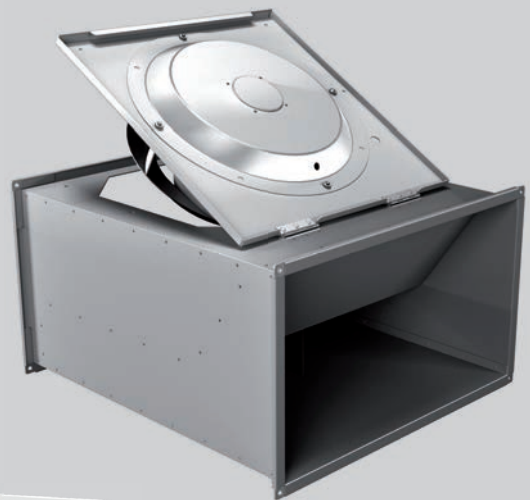


OUR PRODUCT RANGE

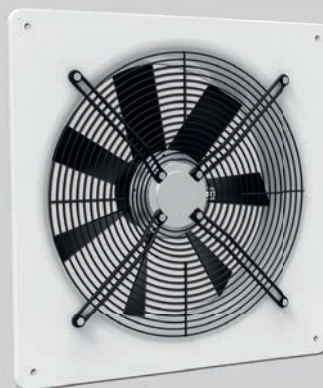
Standard fans for different applications

We offer a suitable solution for every application from ventilation of residential buildings to commercial and industrial buildings.

- **Centrifugal fans**
with forward- and backward- curved impellers
- **Axial fans** with square wall plate or double flange housing with adjustable blades
- **Duct fans** with forward- and backward- curved impellers, hinged and soundproofed designs are also available
- **Roof fans**
with horizontal or vertical discharge
- **Roof fans with standard motors**
for high exhaust gas temperatures
- **Tube fans**
steel or plastic
- **Zerobox**
sound proofed exhaust box units
- **Unobox / Unobox-ME**
sound proofed exhaust box units
- **Kitchen exhaust units**
for high exhaust gas temperatures
- **Air curtains**
- **Air heaters**
- **Switches and controllers**



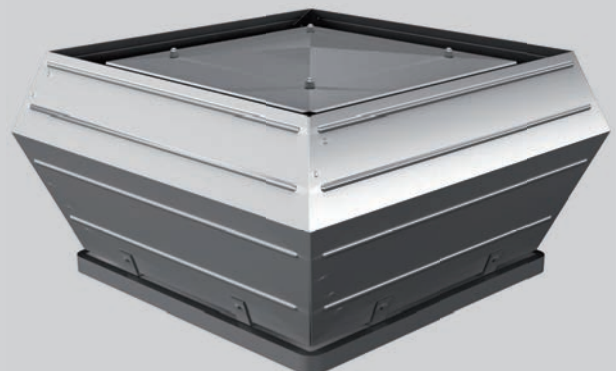
Duct fans (hinged)
for installation in duct systems,
e.g. ventilation of commercial and
industrial buildings



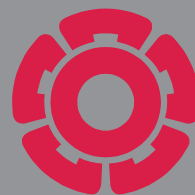
Axial fans plate mounted
for wall mounting, e.g. ventilation of
sales and commercial offices



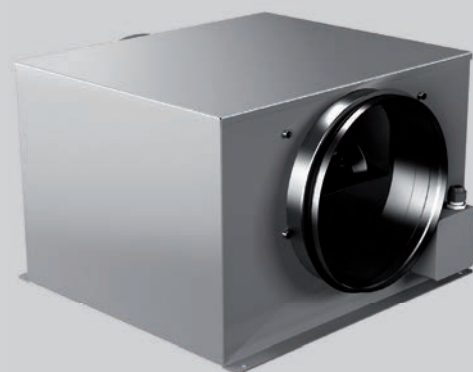
Axial fans with adjustable blades
for installation in duct systems, e.g. ventilation
of industrial buildings



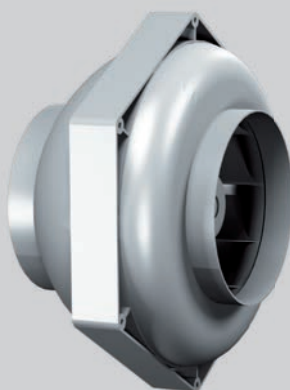
Roof fans for central air extraction
of residential, commercial and
industrial buildings



Air curtains
 for industrial and commercial areas



Zerobox
 for installation in intermediate ceilings,
 e.g. ventilation of commercial buildings



Tube fan
 for installation in duct systems for
 simple ventilation, e.g. in changing rooms



Unobox
 for ventilation of residential,
 commercial and industrial buildings



Kitchen exhaust box unit
 for extraction of air containing fats,
 e.g. commercial kitchens



**Switches and controllers
 & electrical accessories**
 to actuate the fans economically

OUR PRODUCT RANGE

Fans for OEM applications

Our fans have been successfully used in demanding applications on all continents since 1981 and cope with different requirements regarding resistance to mechanical shock, temperature range and power supply.

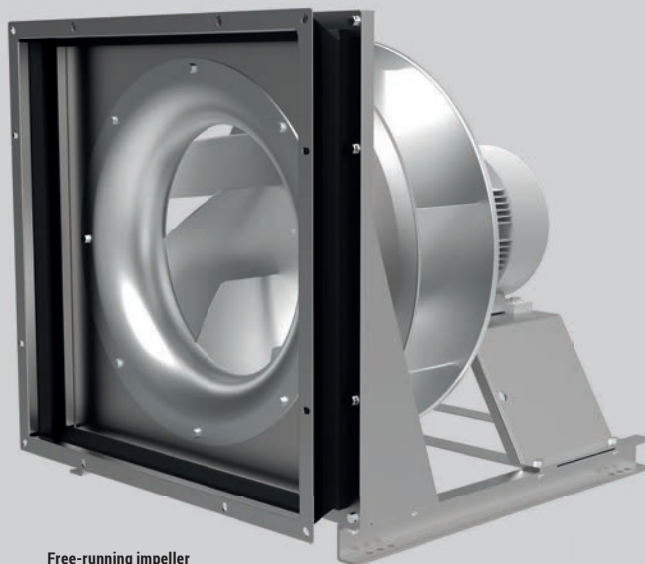
- **Application area: Railway Technology**
Specially designed fans are installed in underground and overground trains, in regional and high speed trains to cool the drive motors, transformers, and electronic components. They are installed in the air handling units.
- **Application area: Wind Power**
A modified design of the Rosenberg axial and centrifugal fans are used for the reliable cooling of generators and switchboards in modern wind energy plants.
- **Application area: Refrigeration and Air Conditioning**
Rosenberg axial fans are used in condensers, coolers and evaporators.
- **Application area: Air Handling Units**
Rosenberg fans with either free-running impellers, belt-driven fans or direct-driven fans are used in air handling units.
- **Application area: Filter Technology**
Rosenberg fans are used in modern filter plants for optimal product processes.
- **Application area: Electronic Cooling**
Rosenberg fans are used for optimal and efficient heat removal or for cooling switch boards, power electronics or electronic control.



Free-running impeller
Used as a supply fan in air handling units
in railway passenger compartments



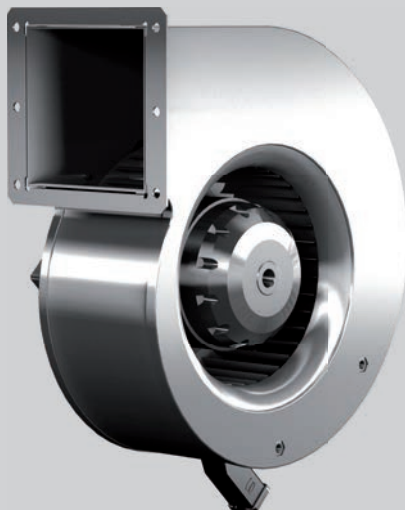
Specially designed centrifugal fan
Used in wind power plants for
generator cooling



Free-running impeller
For use in air handling units



Axial fan for cooling
For use in chillers



Special design centrifugal fan
For use as a supply fan in air handling units
in railway drivers' cab

OUR STRENGTH - YOUR ADVANTAGE

- Customised development, project specific test facility measurement and quick delivery of functional samples
- Creation of standardised "product families" and optimised technical solutions for the respective application
- Customer support throughout the whole project: from quotation, project planning, design, production and after sales service

OUR PRODUCT RANGE

Air Handling Units in flat, compact and modular configuration



We offer a wide range of complete solutions for air conditioning technology. Both in the high-tech area and in conventional building services engineering, Rosenberg air handling units provide clean ambient air at the correct temperature. The air conditioning and ventilation units are designed according to the modular principle and can be simply and individually combined. Weather- and explosion-proof designs are also available as well as RLT hygiene-certified variations.

Our air handling units meet the energy efficiency class A+ and fulfil the highest requirements of cost-effectiveness and quality.



- **Airbox Air Handling Units in modular configuration (Series S40*, S60*, T60)**

The units consist of a frame construction with double-glazed soundproofed and heat-insulated panels. The single modules for filter, fan, heater, cooler, heat recovery, sound absorption, as well as frame materials, are put together flexibly according to the customers' requirement.



- **Frameless Air Handling Units (Series F40)**

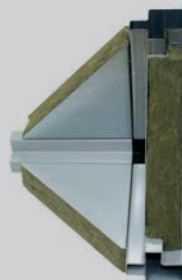
The F40 range is a frameless modular construction with outside screwed 40 mm double-walled panels. The casing has inside a complete smooth surface to fulfill highest hygienic requirements.

- **Air Handling Units in compact configuration (Series SupraBox COMFORT* and SupraBox DELUXE*)**

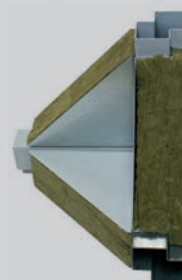
This is a space-saving complete ventilation solution in one unit and is ideal for sales rooms or residential buildings, simple Plug & Play connection, equipped with energy-saving EC technology.



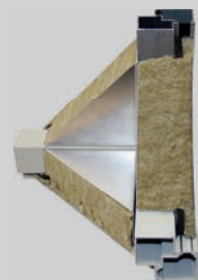
Airbox F40



Airbox S40



Airbox S60



Airbox T60

* not EUROVENT certified



Supply and Exhaust Air Unit
 Airbox in modular configuration

TR Basic Control
 For economic control of air handling units

Wall thickness	40 mm	40 mm	60 mm	60 mm
Frame	frameless	1,5 mm galvanised steel / V2A	1,5 mm galvanised steel	1,5 mm galvanised steel and thermally decoupled
Type	F40	S40	S60	T60
Installation indoors	✓	✓	✓	✓
Weather proof design		✓	✓	✓
Hygiene design with certificate (VDI 6022-1)		✓	✓	✓
Hygiene design with certificate (DIN 1946-4)		✓	✓	✓
Explosion proof design (ATEX / GOST)		2G, 3G (2D, 3D) ¹	2G, 3G (2D, 3D) ¹	2G, 3G (2D, 3D) ¹
Swimming pool design				Galvanised steel plastic coated, AlMg3, V4A
Direct lighting		✓	✓	✓
Vertical ventilation duct	✓	✓	✓	✓
Energy label according to RLT-Herstellerverband	✓	✓	✓	✓
EUROVENT	✓			✓

¹ on request

OUR REFERENCES

Air conditioning and ventilating technology
in use all over the world



Germany

Volkswagen
Daimler Chrysler
Geothermie
Siemens
Nestlé
Coca Cola
Mast Jägermeister
Schott AG
Hotel Bellevue
Hotel Steigenberger
Beisheim Center
Deutsche Oper
Coselpalais
Universitätsklinik
Virologie-Uni Köln

Dresden
Rastatt
Unterhaching
Coburg
Berlin
Weimar
Wolfenbüttel
Jena
Dresden
Stuttgart
Berlin
Berlin
Dresden
Erlangen
Cologne

Landeskrankenhaus
Parkkrankenhaus Leipzig
Klinik Löwenstein
High Tech Klinik
Technologiepark FFO
Sparda Bank
Volksbank
UVEX
Rockwool
Rhein Chemie
EKO Stahlwerk
Tank & Rast
PUMA
Adidas
OBI

Bernburg
Leipzig
Löwenstein
Nuremberg
Berlin
Nuremberg
Viersen
Fürth
Flechtlingen
Mannheim
Eisenhüttenstadt
Nuremberg
Herzogenaurach
Herzogenaurach
Forchheim



Austria

Town Town	Vienna
BOKU Biotech	Vienna
Jenbacher Werke	Jenbach
Rehabilitationszentrum	Bad Häring
Gasometer	Vienna
Erdberger Lände	Vienna
Millenium Center	Vienna
Tech Gate Vienna	Vienna

Turkey

Milen Hexal AG	Gebze
Ilsan Hexal AG	Istanbul
Eczacibasi Pharma	Lüleburgaz
Levent Loft	Istanbul
Billim Ilac	Gebze

Russia

MAN	St.Petersburg
National Bank	Moscow
National Bank	St.Petersburg
Eremitage	St.Petersburg
International Paper	Swetogorsk
Hotel Neptun	St.Petersburg
„Ostankino“ Tower	Moscow
Russian Standard	St.Petersburg
Nokian Tyres	St.Petersburg

Hongkong

Exhibition Hall	Hongkong
Tuen Mun Hospital	Hongkong
St.Theresia Hospital	Hongkong
St.Elisabeth Hospital	Hongkong

OUR SALES OFFICES

The Rosenberg Group worldwide



Argentina
Austria
Australia
Belgium
Bulgaria
Canada
Chile
China
Cyprus
Czech Republic
Denmark
Egypt
Finland
France
Great Britain

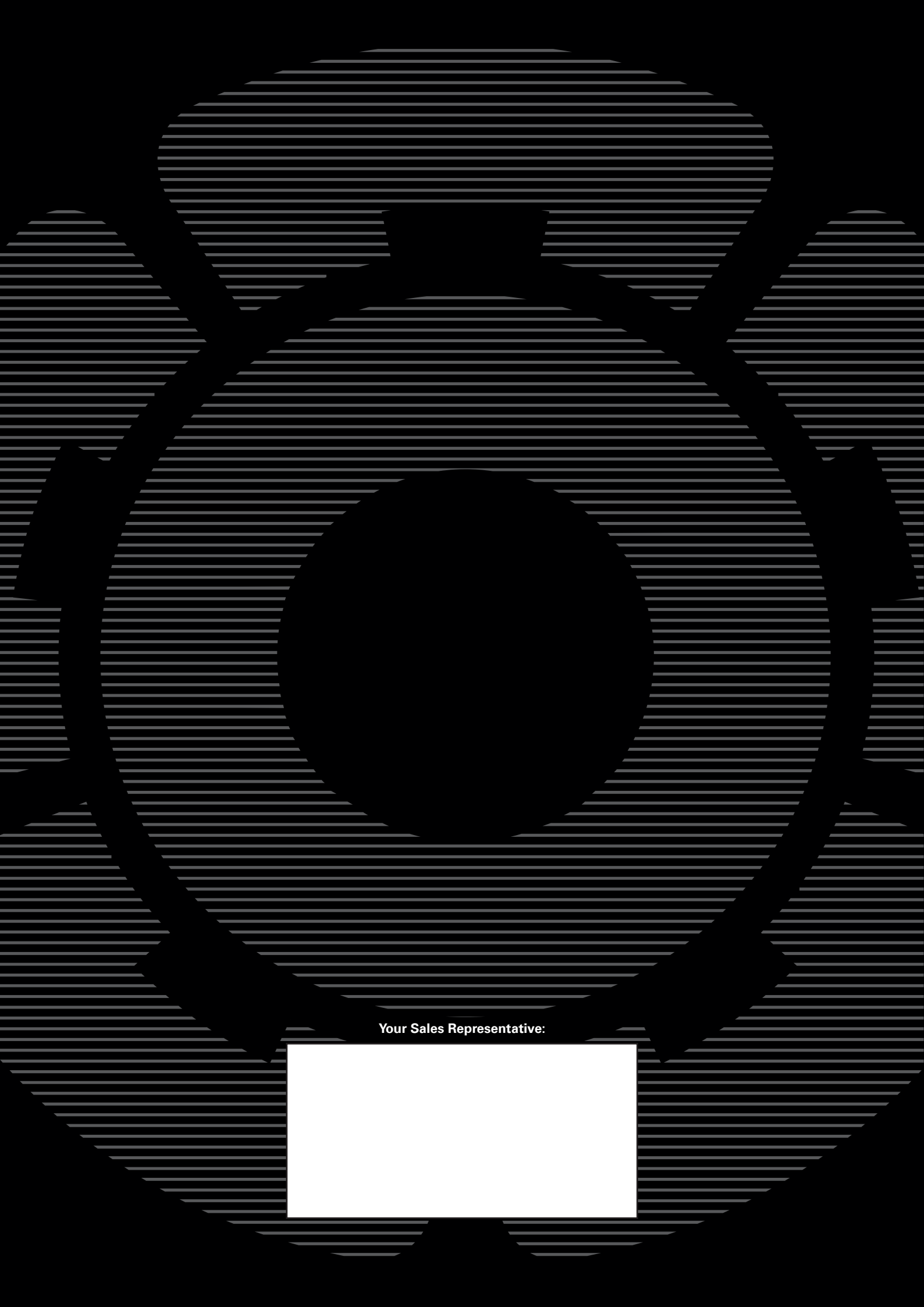
Hungary
Iceland
India
Indonesia
Ireland
Israel
Italy
Kirgistan
Korea
Lithuania
Malaysia
Moldova
Netherlands
New Zealand
Norway

Poland
Romania
Russia
Saudi Arabia
Singapore
Slovakia
Slovenia
Spain
Sweden
Switzerland
Syria
Thailand
U.A.E. (Dubai)
Ukraine
USA



WE REMAIN AT YOUR DISPOSAL

Our employees will advise you personally.
We are looking forward to receiving your enquiry!



Your Sales Representative: