



TECHNOV



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01 COMPANY PROFILE

About company

The company TECHNOV s.r.o was established in 2007 after transformation of the company LAMES and it follows a long tradition of producing air conditioning components.

The newly established company TECHNOV started its manufacturing production in the original halls of the former company Lames in the Rumanová municipality and through innovation and the purchase of new modern equipment in 2007-2008 the company proceeded to modernize and develop it. The TECHNOV production area is bigger than 10 000 m² and all production facilities are currently located in production halls which are designed according to the latest modern technologies with the aim of achieving the optimal production standard with focus on product quality. The company TECHNOV s.r.o. successfully provides complex services in the area of production of components for air conditioning and ventilation, whereby monthly production capacity consists of more than 42 000 m² or 210 tons of steel processing. The TECHNOV production area

will significantly grow from September 2018 on and will be enlarged of more than 20 000 m² by a newly built production complex located in the village of Rumanová. More information about the production plant can be found on page 24.

Our products are suitable for the following areas:

- production spaces
- medical spaces
- cultural and sporting facilities
- administrative spaces
- shopping centres
- shops and business spaces
- hotels and catering facilities
- technological containers, aspirators
- households and others



We place emphasis on technological requirements that are absolutely necessary for ensuring the functionality and high standard of current architectural complexes.

The priority for TECHNOV is the quality and reliability of our products. We place emphasis on a flexible approach towards our business partners and the prompt resolution of their requests. Modern technological procedures and knowledge are the cornerstone of our uniqueness in this field:

- Highly qualified employees with many years of experience in the area of development and manufacture of shaped air conditioning components and piping; their design and technical advice are key to our success.

- TECHNOV currently employs approximately 150 employees, most of whom are technical workers directly in production, and also administrative workers and drivers.
- The implementation of information technologies into the processes of production and product bar code labelling leads to clarity and the easy identification of components. The combination of bar codes with 3D output from CAD software leads to the efficiency of the component assembly process.



We offer our customers short delivery times, attractive competitive prices and product delivery with our own vehicles to the place of destination.



Since 2009 the company TECHNOV has had a developed certified management system.



Quality is our top priority and therefore transmitted to the all processes - starting from the design, through production, ending at products' delivery to the place of destination.



Quality management system according to ISO 9001



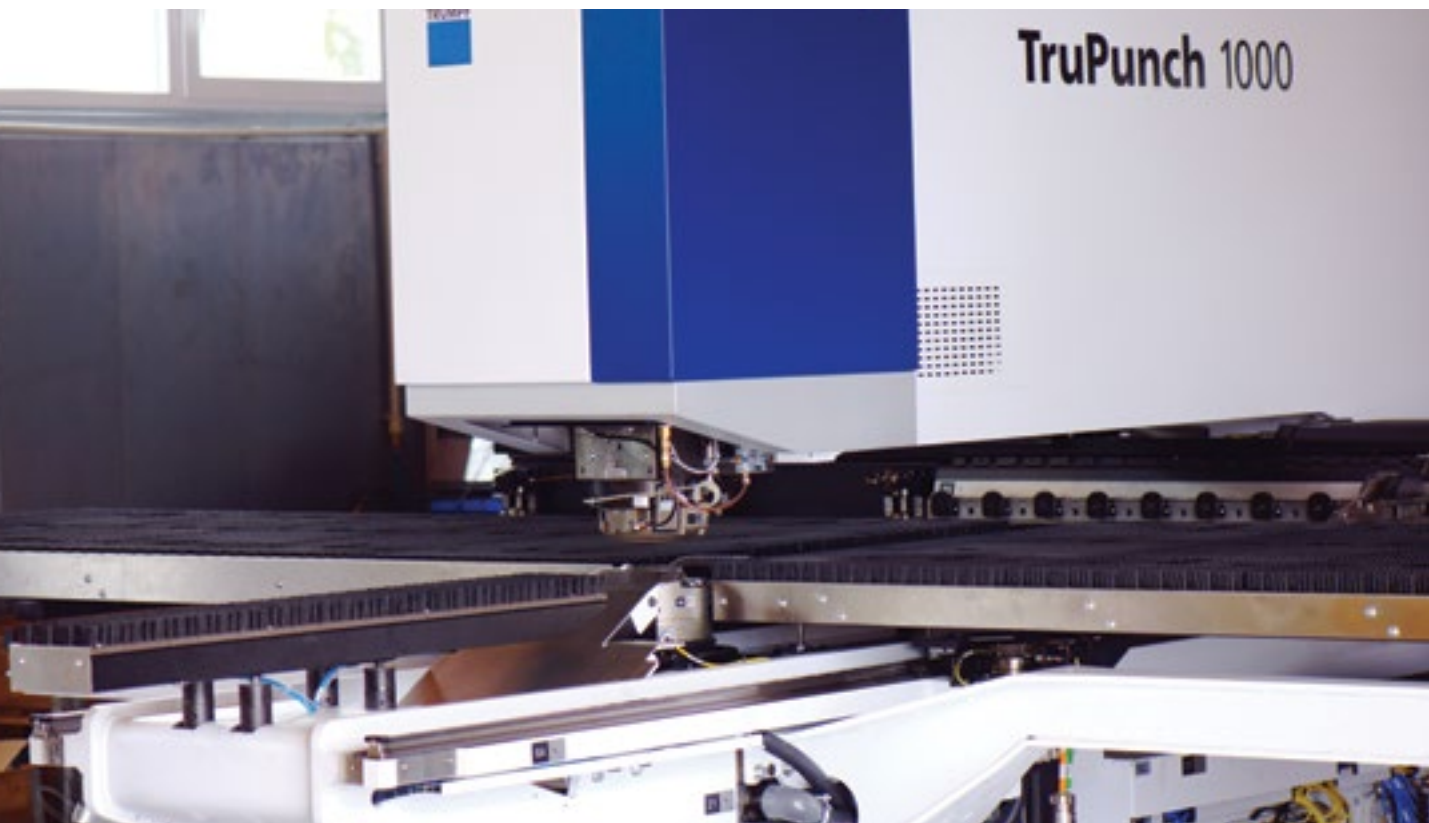
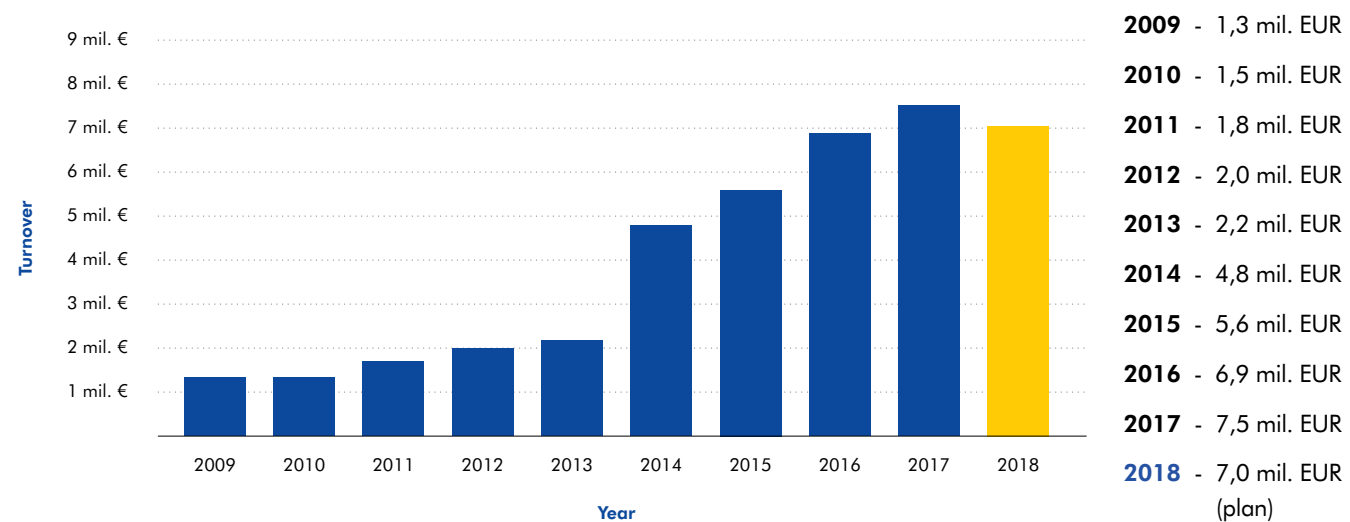
Environmental management system according to STN EN ISO 14001



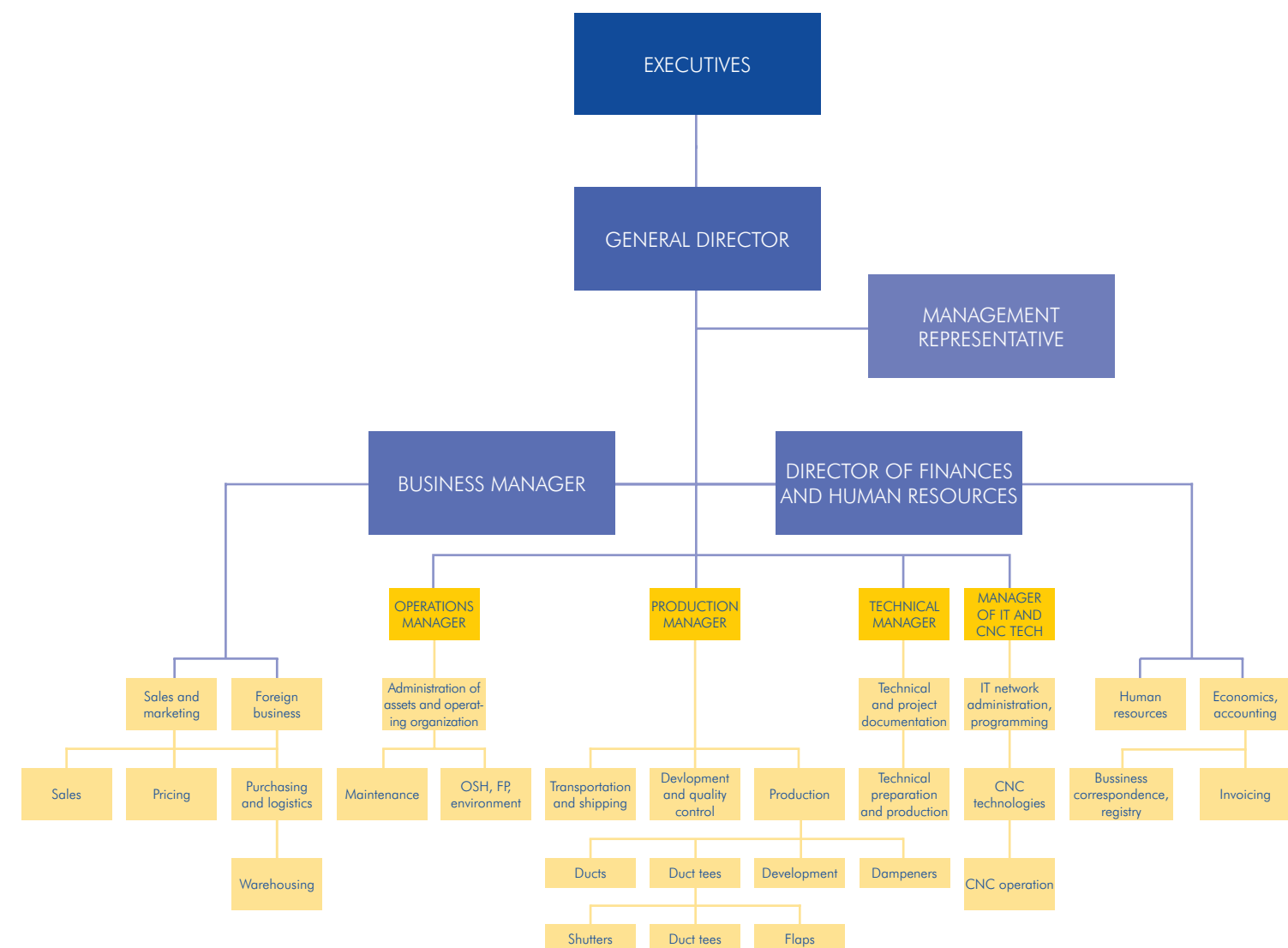
OHS management system according to STN EN OHSAS 18001

01 COMPANY PROFILE

Turnovers



Organizational structure



02 PRODUCTS

Production program

TECHNOV is responsible for the manufacture of its products, which are manufactured to the highest quality according to standards STN EN 1505, STN EN 1506, STN EN 1507, STN EN 12237 and DIN 24191, DIN 24145 and DIN 24147.

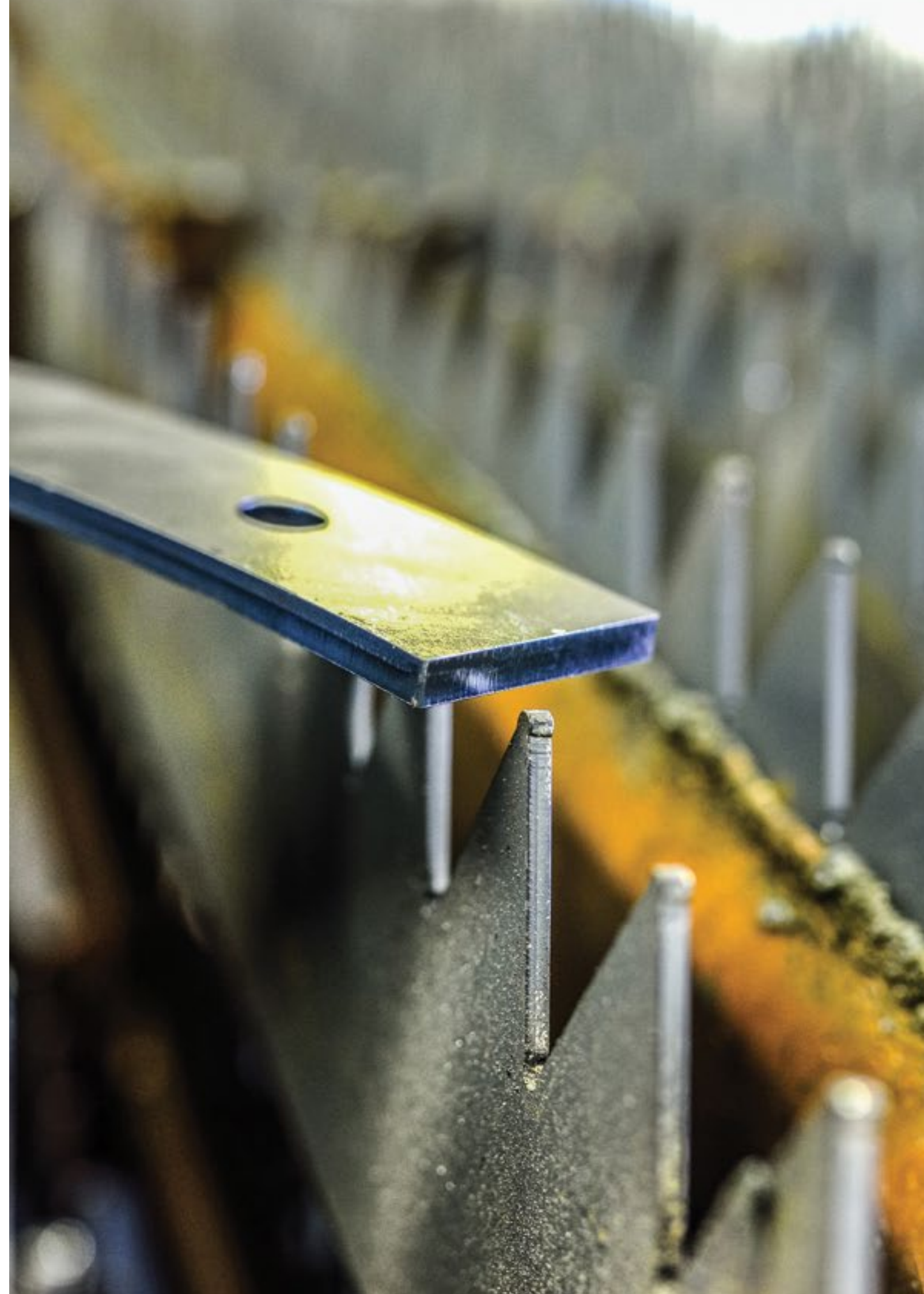
All components are normally made of galvanized sheet DX51D Z275 MAC. Based on the customer's requirements it is possible to make components from other materials (stainless steel, aluminium, copper, and others). We supply air conditioning products not only for customers on the domestic market but also to other European countries such as Austria, France, Germany, Czech Republic and many others.

The production program consists of the following components:

- rectangular ducts and duct tees
- coiled ducts and round tees
- round elbows 15°-135°
- connectors for round pipes and tees
- round caps
- round regulating flaps, also in tight variant
- collars for rectangular and round pipes
- round and rectangular exhaust pipes with screen
- round and rectangular direct exhaust pieces
- round and rectangular inlets/outlets
- vapour extractors
- anti-rain shutters, also a profiled Al variant
- anti-noise shutters
- anti-sand shutters
- rectangular and round flexible connections
- noise dampeners round and rectangular
- sanitary rectangular noise damping inserts
- sanitary cellular noise dampeners
- rectangular regulating flaps
- protective grilles rectangular and round
- rectangular automatic flaps
- diffuser boxes for rectangular and round plates
- fireplace air distribution ducts
- front plates
- and many other air conditioning components



Our vision is to expand the export of Slovak products of TECHNOV to countries of the European Union.



03 TECHNOLOGIES

Modern technologies

In addition to proven technologies TECHNOL utilizes a wide range of new, modern technologies for the production of air conditioning components and constantly follows the

development trends of equipment and work procedures used in our activities, which leads to the high standard of our manufactured products.

The production line includes the following technologies:



RAS DUCT ZIPPER

Device for folded closing of extremely narrow rectangular pipes

ATTEXOR – Rivclinch

Pneumatic manual device for producing a pressure pressed connection without breaking the surface of the material

SWAH LINK

Automatic line for producing rectangular pipes



TORMEC ARC – DUAL

Device designed for the production and closing of folds on round components

PLASMA CUTTING

Flame cutting parts of any shape with a plasma cutting machine

PRESSING MACHINE - VS 5

Machine designed for producing air conditioning flanges of sizes 20 and 30 mm

PRESS BRAKE SAFAN 6020

Technology for sheet bending with maximum accuracy and speed

SPOTCLINCH

Pneumatic standing device for producing pressure pressed connections without breaking the surface of the material



TORMEC TUBO NOVA

Machine designed for the production of round, spiral wound pipes

STITCH WELDER STITCHWELDER 1000 MM

Connecting of sheets using stitch welding



Responsible employees constantly follow the development trends of equipment and work procedures used in our activity, which leads to the high standard of our manufactured products.

WELDING OF KÖCO ELEMENTS



LASER TRUMATIC L 3030

Sheet metal processing and the production of parts for components by precision laser cutting, to a thickness of 20 mm (depending on the cut material)



PUNCHING MACHINES TRUMPF TRUMATIC 200, TRUPUNCH 1000

Processing of sheets and manufacturing of parts for components by precision cutting

TIG WELDING

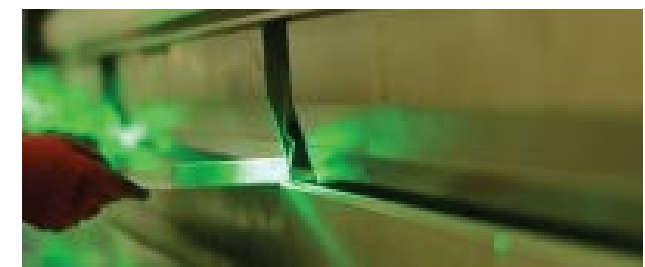
Precise welding of thin stainless steel and aluminium sheets using TIG technology under a protective atmosphere

NOISE DAMPENER PRODUCTION LINE

A line constructed specifically for the company's requirements, designed for manufacturing casings and reinforcements of the noise dampener bodies.

PRESS BRAKE TRUMPF TRUBEND 3120

MIG/ MAG WELDING, RESISTANCE WELDING



04 REFERENCES

Administrative and residential facilities

Air conditioning elements and piping made by our company were installed into large and significant projects and buildings both in Slovakia and also abroad.



„Slnčnice“ Južné mesto

Bratislava
20 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

2017



Westend administration center

Bratislava
85 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

2013 - present



Einsteinova Business Center

Bratislava
19 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

2017



Malé Krasňany residential complex

Bratislava
12 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

2017

04 REFERENCES

Production and logistics halls



Jaguar Land Rover

- 📍 Nitra
- 🏗️ 45 000 m² of air conditioning ducts and components manufactured from DX51D Z275 MAC standard galvanized sheet steel
- 📅 2017



ZF Slovakia

- 📍 Šahy
- 🏗️ 25 000 m² of air conditioning ducts and components manufactured from DX51D Z275 MAC standard galvanized sheet steel
- 📅 2017



Volkswagen Bratislava

- 📍 Bratislava
- 🏗️ 120 000 m² of air conditioning ducts and components manufactured from DX51D Z275 MAC standard galvanized sheet steel and special output heads with a reinforced load-bearing structure
- 📅 construction is still in progress since 2016



CTP Park Voderady

- 📍 Voderady
- 🏗️ 17 000 m² of air conditioning ducts and components manufactured from DX51D Z275 MAC standard galvanized sheet steel
- 📅 2017

04 REFERENCES

Hotel complexes, restaurants



Hotel Kameha Grand Zürich

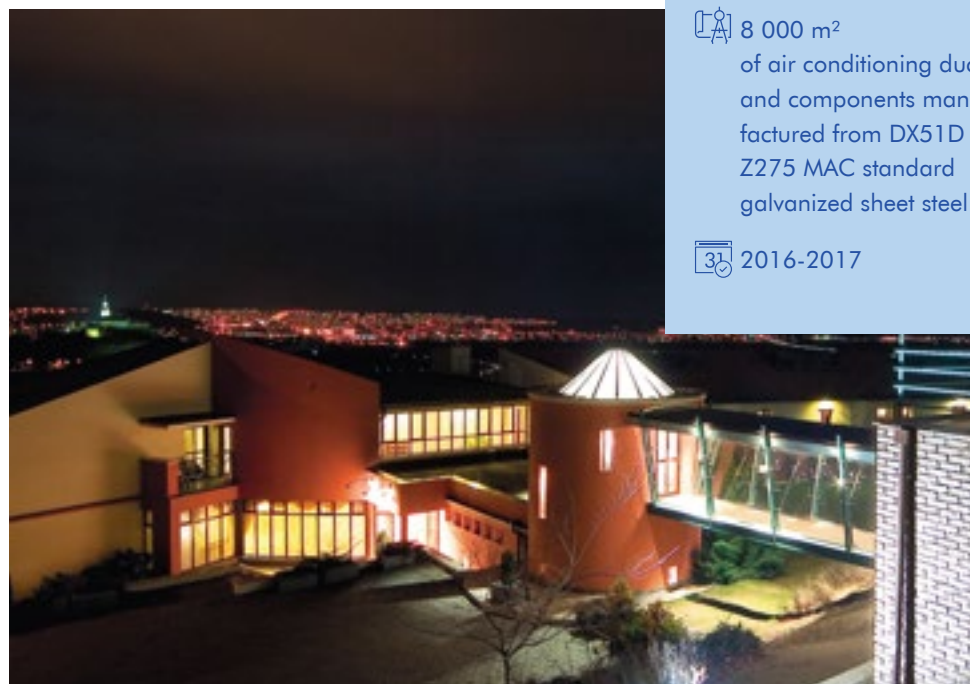
📍 Swiss
📏 13 500 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

📅 2016

Hotel Zlatý Klúčik

📍 Nitra
📏 8 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

📅 2016-2017



Grand Hotel River Park

📍 Bratislava
📏 12 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

📅 2010



Hotel Panorama

📍 Trenčianske Teplice
📏 10 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel

📅 2015

04 REFERENCES

Shopping and entertainment centres



EPERIA Shopping Mall

Prešov
19 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel
2017



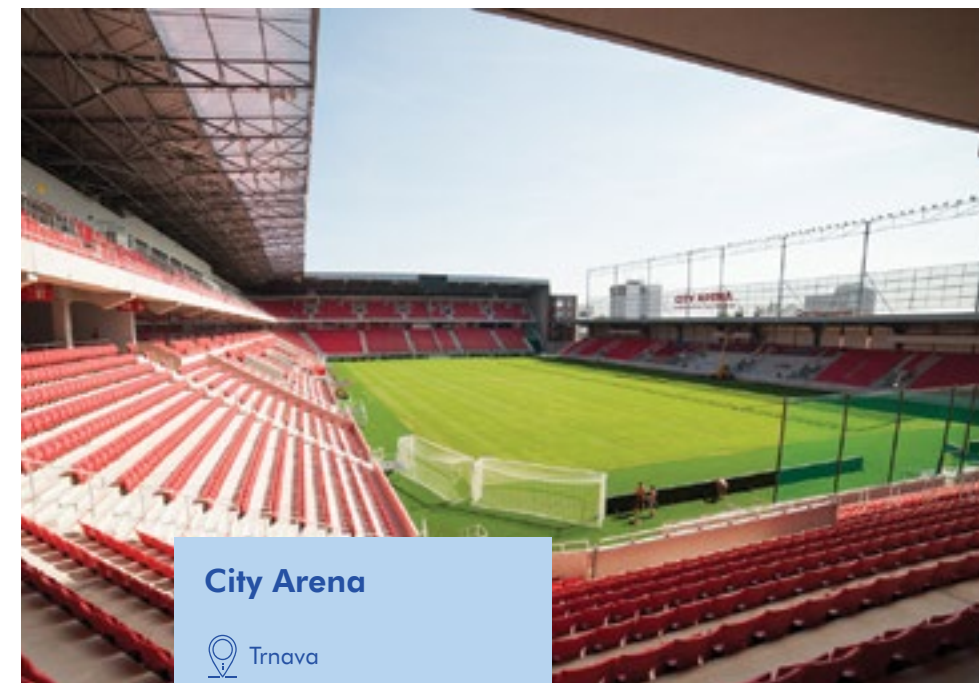
TERMINAL Vlak-Bus-Shopping

Banská Bystrica
8 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel
2017



OC Point

Banská Bystrica
9 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel
2017



City Arena

Trnava
14 000 m²
of air conditioning ducts
and components manu-
factured from DX51D
Z275 MAC standard
galvanized sheet steel
2016

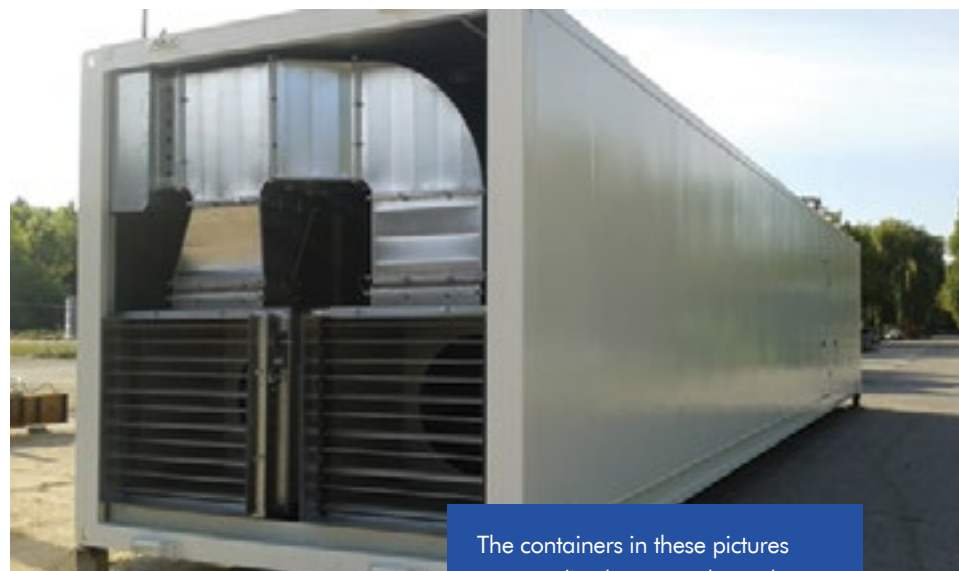
05 ATYPICAL PRODUCTION PROGRAM

Air conditioning for container systems

Air conditioning component production for technological containers installed in various countries where they must meet difficult climatic conditions such as low or high temperatures, or high dustiness.

Distribution to: hospitals, oil platforms, army and locations with extreme weather conditions

Countries: India, Russia, Nigeria



The containers in these pictures were realized as an order to the country of India.



Air conditioning components for sanitary environment

TECHNOV in its product portfolio also offers air conditioning ducts, which are used in environments with high sanitary requirements. These include, for example, hospitals, or the pharmaceutical industry. The tightness class of these ducts is: **D**.

The duct is cleaned with a disinfectant and packaged in anti-static film.

Instead of a regular cashmere cloth the noise dampeners use special electro fabric ensuring quality under MIT Decree 460/2005 Coll. TECHNOV already uses this fabric as a standard for all its dampener versions.

Annual production: 42 000 pieces



Air conditioning for nuclear power plants

TECHNOV also manufactures air conditioning components for nuclear power plants (TPE N 107/85), when the components are placed in a controlled area. These components ensure the highest seismic resistance, Category 1a – functionality and integrity.

● seismic certification for flap regulation follows the standards STN IEC 60980 and STN IEC 60780

06 IT SYSTEM

In order to efficiently utilize information, our specialized technical workers use systems which are designed to produce high quality and relevant information required for the management and production processes.

TECHNOV s.r.o. currently uses a complex enterprise information system developed for its own needs. It's an open, fully customizable according to immediate requirements, modular ERP system utilizing Client / Server technology.

Import of drawing documentation is in standard formats .dwg, or .pdf. The system offers output in the form of price offer, documentation for the entire production process, and, last but not least, output in 3D for duct assembly, which will be appreciated particularly by installation and execution groups.

- assembly documentation in 3D visualisations
- outputs according to individual sectors (branches, facilities, floors, etc.)
- positional numbers for individual components

As a supplement to the primary production software, we utilize in the production process also our own system of Intranet applications.

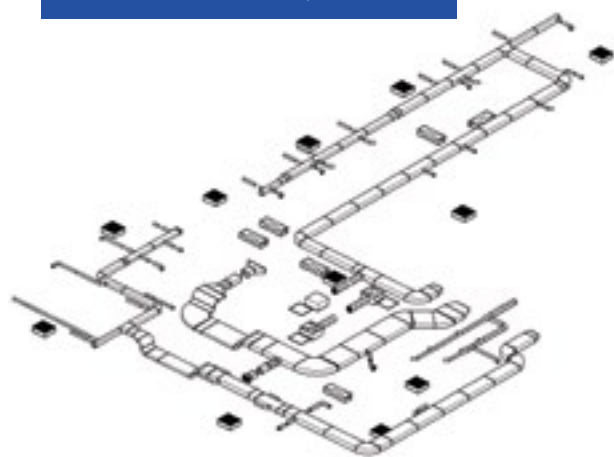


The IT system grows along with the development of our company

2D vs. 3D

3D component visualisation export is used as a model and helpful assistance especially when installing ducts, which will be appreciated particularly by installation and execution groups. The export can be overall or by individual sectors, e.g. branches, facilities, floors, etc.

3D visualisation of components



2D drawing of project components

Autodesk Revit

Technov is currently cooperating with the Autodesk company for creating and finalizing of the air ducts components library. The library will ensure better connection with a current software used in TECHNOV and will make the work of project engineers and designers much more easier. The process should provide simplicity for its users as well as fast and precise processing that is necessary for smooth run of the Sales Department.



TLMIČE HLUKU

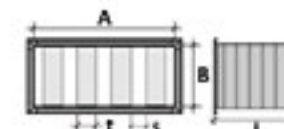
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Zadanie

Typ tlmíča: ☒ kulisový ☐ bunkový ☐ kruhový

Kulisový tlmíč



šírka tlmíča: A 500 mm
výška tlmíča: B 1000 mm
dĺžka tlmíča: L 1000 mm
nábehová hrana: áno

prevedenie: s plechom
šírka kulis: t 100 mm
počet kulis: n 3
prietokná medzera: s 66.67 mm
výbehová hrana: áno

dopočítať vlastný hluč a tlakovú stratu ☒

útlm pre frekvencie: 50 Hz

Okrajové podmienky pred tlmíčom

prietok vzduchu: Q 7 100 m³/h hustota vzduchu: ρ 1.2 kg/m³

hladina akustického výkonu vrátane započítaného váhového filtra A:

f	16	32	63	125	250	500	1000	2000	4000	8000	16000	Hz
L _{WA} (A)	48	50	52	57	74	75	76	69	62	53	49	dB

Acoustic software

It is a software that provides calculation of the attenuation parameters of the noise silencers. The software gives fast and easy schema as well as guaranteed data according to the calculated values.

07 VISION FOR THE FUTURE

New production complex

Investment of 22 mil. €

- Total area 20,000 m²
- Production spaces 6,300 m²
- Technologies for approx. 12 million €
- Creation of 350 jobs
- Significant increase in production capacity
- Development and expansion of the portfolio of offered products and services
- Increasing exports



Validity of the construction permit	05/2016
Start of construction	10/2016
Commissioning of the production hall and paint shop	03/2018
Commissioning of the office building	03/2018
Start of construction of the development centre	2022 – 2023

S0 204
PAINT SHOP +
WAREHOUSE

S0 203
PRODUCTION HALL

S0 201
OFFICE BUILDING

S0 202
DEVELOPMENT
CENTRE



Research and development

Experimental research of the parameters and functional properties of the equipment in the area of measured variables:

Heat-technical - extreme temperatures of -150°C to 120°C, heat losses

- Product durability in various climatic conditions

Hydrodynamic - pressure, flow, gas leak

- Improvement to the ecological and economic level of air conditioning ducts

Mechanical - forces, mechanical stress and deformations

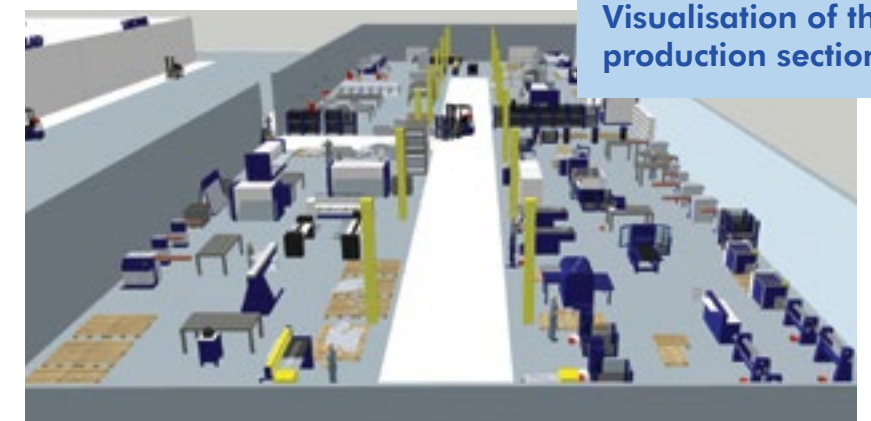
- Resistance against coarse impurities

Acoustic - noise, noise dampening, vibrations

- Improvement to the acoustic properties of air conditioning ducts

Ecological and sanitary properties

Visualisation of the
production sections



08 PRODUCT PORTFOLIO

As standard, air conditioning ducts are manufactured from tested materials, which are made of DX51D Z275 MAC galvanized steel sheets.

TECHNOV offers its customers a wide range of materials such as stainless steel, aluminium, copper, etc. Therefore, the selected product material only depends on the customer's requirement.

SQUARE DUCT

Pressure grade 1

Ducts intended for ventilation, air conditioning and air extraction without mechanical and abrasive particles and without corrosive gases and vapours that promote excessive wear or corrosion of steel or zinc.

Pressure grades 2 and 3

HCZ rectangular ducts groups II and III intended for the extraction of hot gases (up to 200-350 °C), for dust removal from technological machines containing abrasive materials (at low speeds of movement), chimneys, dryers and low pressure pneumatic transport.

The standard version of the ducts corresponds to tightness class A (sealed corners).

If the duct has all folded joints caulked, it corresponds to tightness class B.

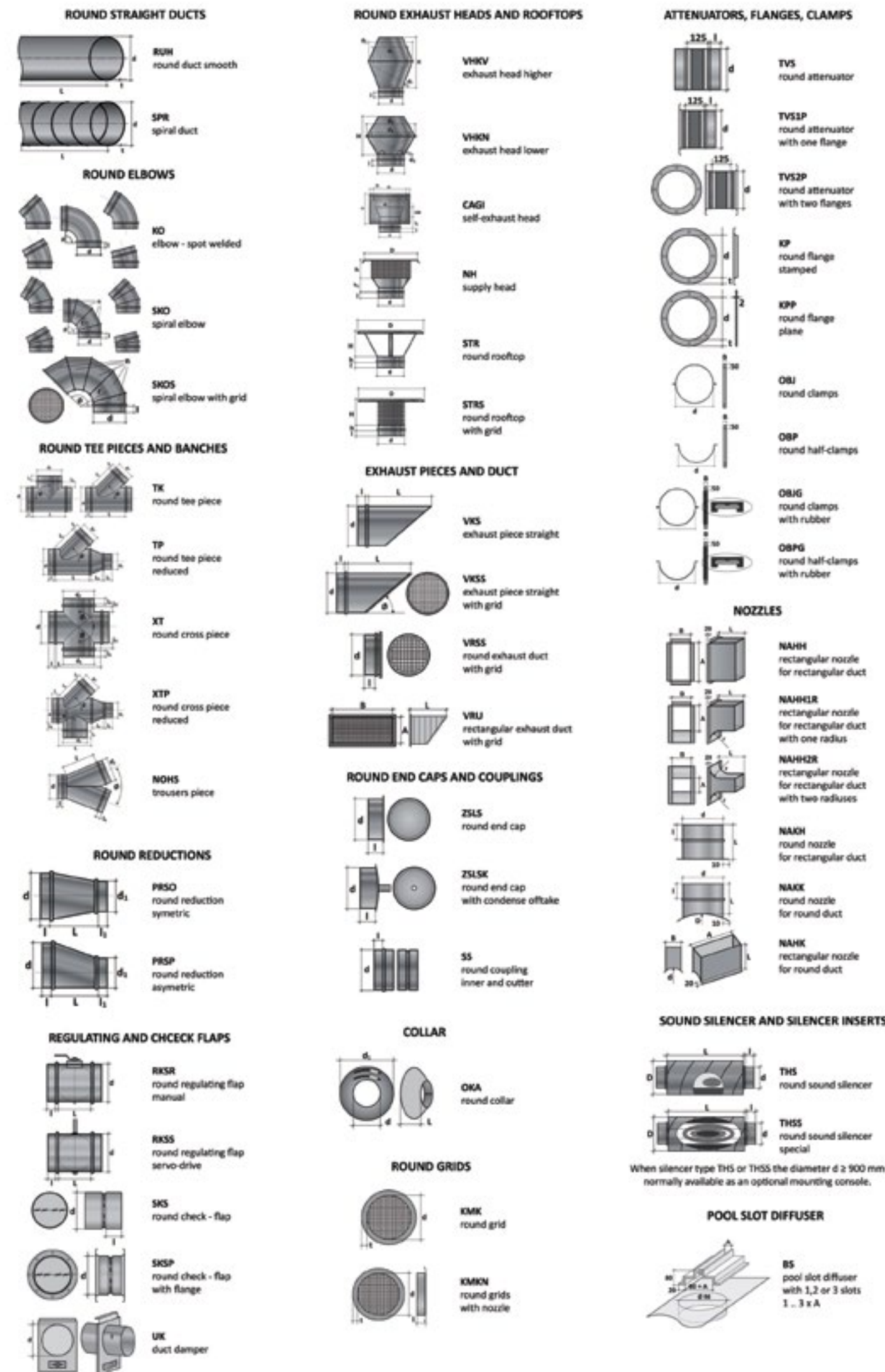
In tightness class C the profile flanges are caulked as well.

Tightness classes are regulated by the STN EN 1507 standard.

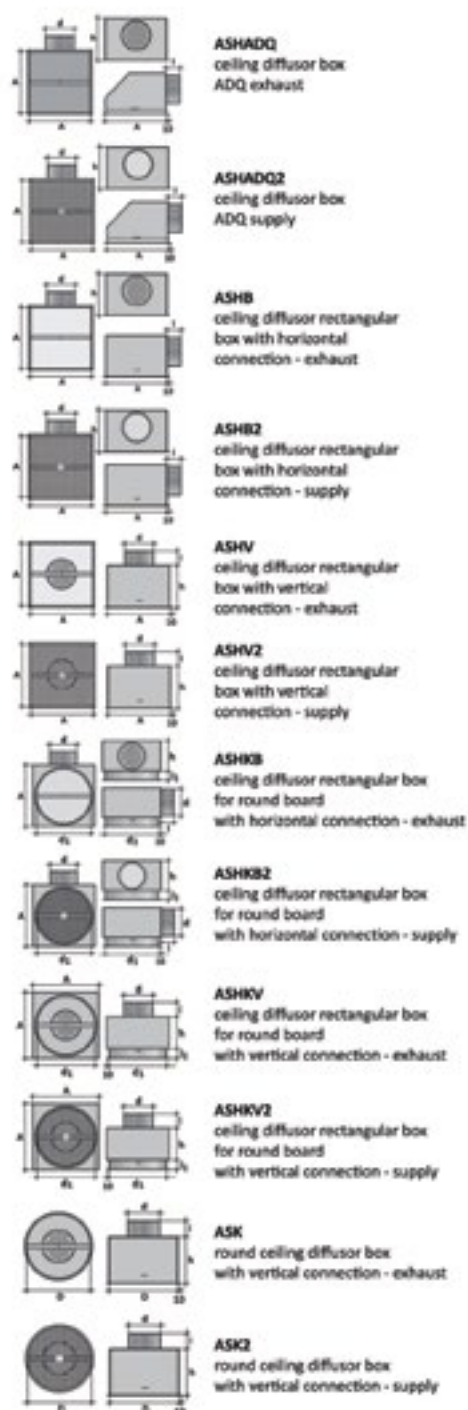
ROUND DUCT

A wound spiral round duct is used mainly for the needs of assembly and construction of air conditioning, ventilation and exhaust systems with the following parameters

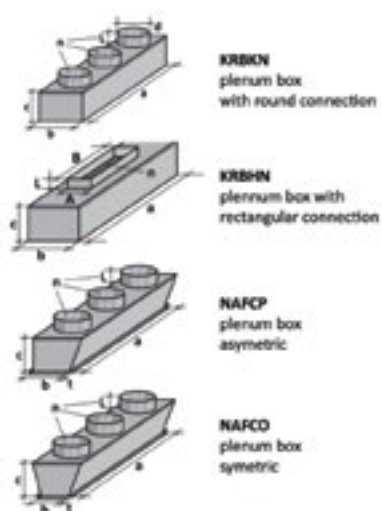
- maximum temperature of transported air 80°C,
- maximum relative humidity 80%,
- maximum allowed air speed 20m/s,



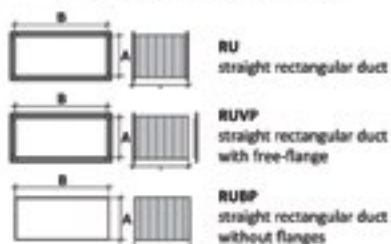
CEILING DIFFUSOR BOXES



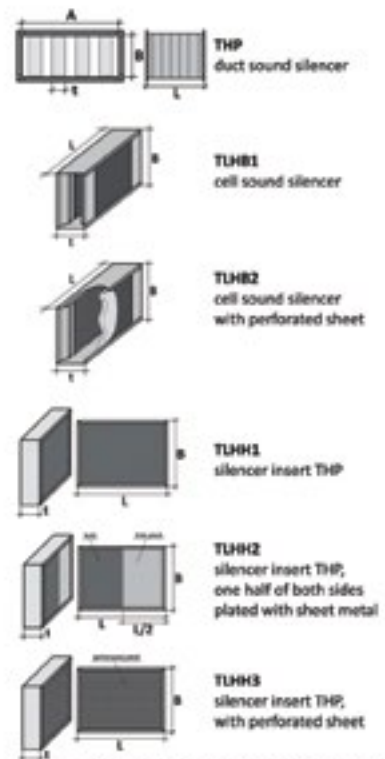
PLENUM BOXES



STRAIGHT RECTANGULAR DUCTS

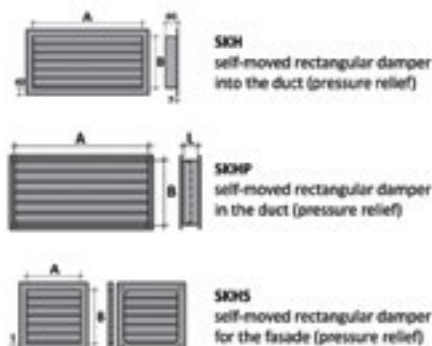


SOUND SILENCER AND SILENCER INSERTS



All models silencers are available in hygienic design
in accordance with the standards for hospitals and general aircondition,
with rounded edges including

PRESSURE RELIEF DAMPERS (SELF-MOVED)



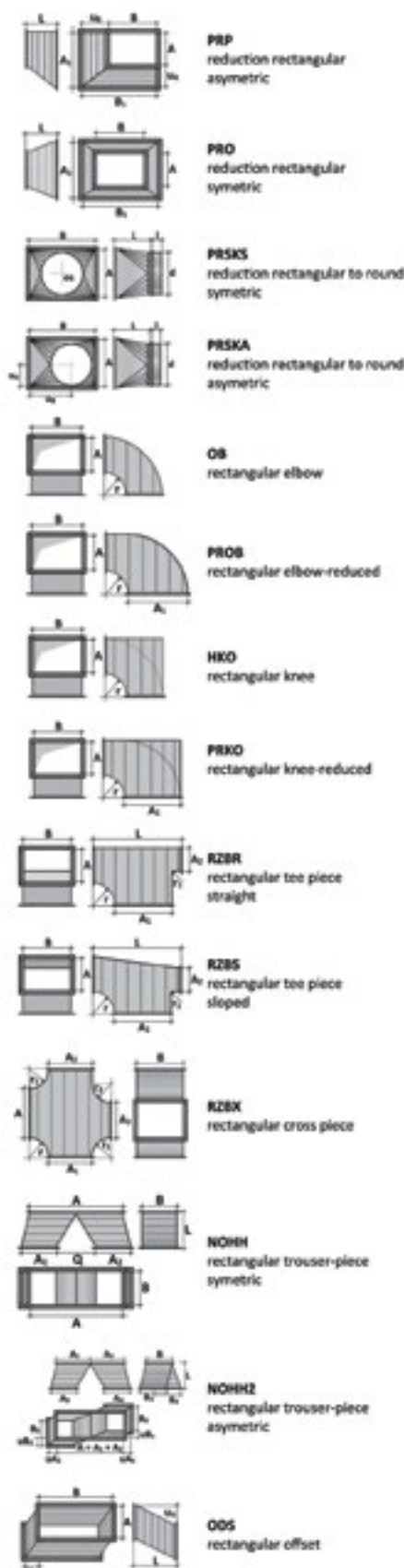
RECTANGULAR ATTENUATOR



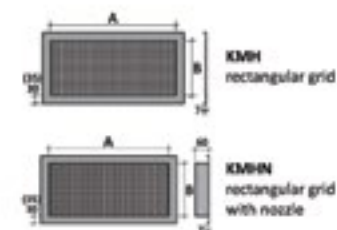
END CAPE



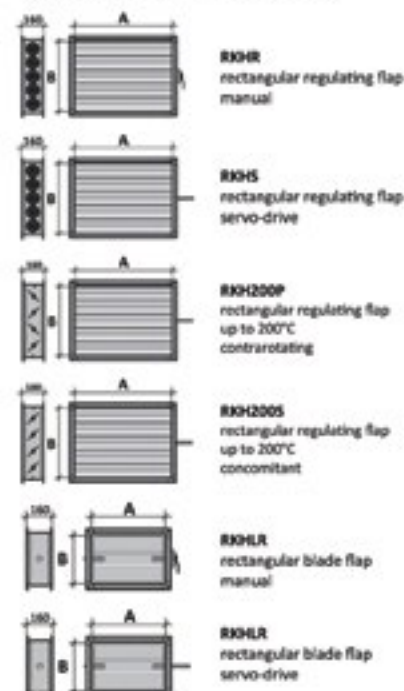
RECTANGULAR REDUCTIONS, ELBOWS, KNEES, TEE PIECES, TROUSER PIECES



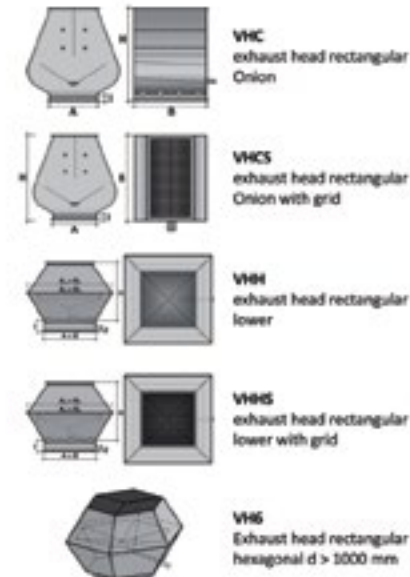
RECTANGULAR GRIDS



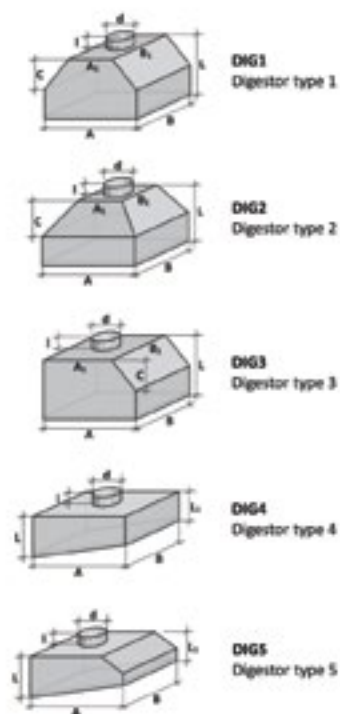
RECTANGULAR REGULATING FLAPS



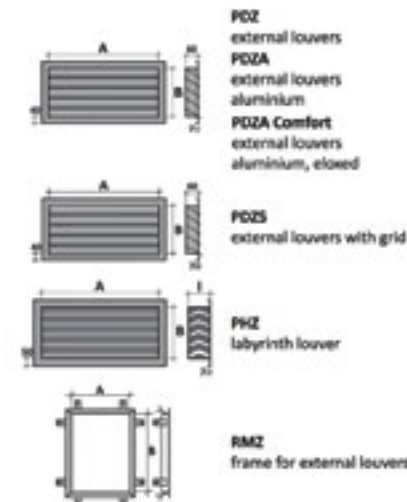
RECTANGULAR EXHAUST HEADS



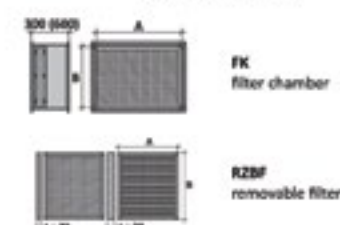
DIGESTORS



RECTANGULAR LOUVERS



FILTER CHAMBER



09 CONTACTS

Contact address

Technov, s.r.o.

Rumanová 144
951 37 Rumanová
Slovak Republic

Invoicing information

Company ID: 36 801 640
Tax ID: 2022 409 125
VAT ID: SK7120000030
CR: DC Nitra, Section: Sro,
File number 20237/N



Banking information

VÚB, a.s.
2626227759/0200
IBAN: SK7802000000002626227759
SWIFT: SUBASKBX

ČSOB, a.s.
4005195044/7500
IBAN: SK7575000000004005195044
SWIFT: CEKOSKBX

Contacts

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Departments



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E-mail: produkcia@technov.sk



Pricing

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Economics department

E-mail: ekonomicke@technov.sk

We are looking forward to your
visit and requests via phone
or e-mail to our company.



Map of the company

Rumanová 144
951 37 Rumanová

