

# KOLLER WHIRL SYSTEMS

Company presentation



# ALWAYS CLOSE TO THE CUSTOMER

Founded in Austria, the centre of the Koller International Group is still located in the region: The group is managed and represented externally from the group's headquarters in Vienna. Research and development, as well as production by means of top modern machinery is split among two locations in the EU:



## Headquarters Vienna / Austria

From Vienna, the national and worldwide activities of the Koller International Group are planned and coordinated.



## Parent plant Vitis / Austria

Competence centre for development, metalworking, surface technology, and electronics.



## Plant Jindrichuv Hradec / Czech Republic

Competence centre for blower and pump production, assembly, toolmaking and plastics production.

## Worldwide sales – highest customer satisfaction!

The products of Koller Whirl Systems are sold around the globe. Apart from our production sites we operate sales offices for global sales in Malta, Valencia, Prague, Moscow and London, as well as six big warehouses (Austria, Czech Republic, Spain, Russia, Great Britain and China). You'll find the contact for your country at [whirl.rkoller.com](http://whirl.rkoller.com)

# WORLDWIDE AT YOUR SERVICE!

# THE BENEFITS AND ADVANTAGES OF KOLLER PRODUCTS

## Strong points in favour of Koller Whirl Systems:

- We are a reliable partner from concept design to series maturity and production.
- We develop components exactly to your ideas.
- We have more than 750 product certificates.
- We operate via an international sales network.
- We produce all products on our own and exclusively inside the EU.
- We score with quick delivery times and a life-time guarantee on the availability of spare parts.
- We set great store by components that are easy to install.
- We excel due to our innovations for whirlpool systems.

## WE CONSTANTLY UPDATE AND DEVELOP NEW PRODUCTS

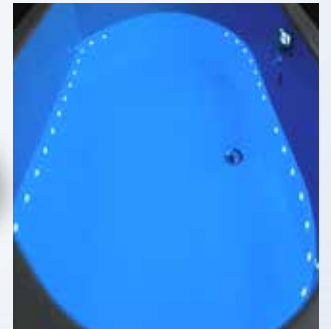
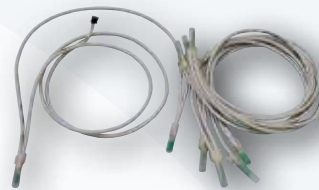
FITTING



ELECTRONIC



SPA LIGHT



JET



SHOWER JET



FLATLINE

worldwide unique design



MULTI VALVE

for Jet pump





only Air



only Water



Air and Water

MAGIC  
JET



## WHIRLPOOL SYSTEMS

**507**  
Jets

2 Turbo jets, 414 Nano jets, 5 Future jets,  
48 Whisper jets, 38 Magic jets, 48 Light points



DISINFECTANT  
for massage and whirlpool tubs



NANO JET



KOLLER ECOLUTION  
JET PUMPS  
with integrated c-profile



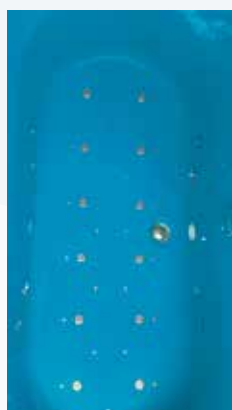
**SPA JET PUMPS**  
a class apart

**POOLMASTER**  
Hi-Tech for your bath



**FILTER PUMP**  
for the highest level of  
energy efficiency

**KOLLER MILK SYSTEM** or health-promoting water in whirlpools



**SYSTEMS FOR WHIRLPOOLS**

You benefit from optimally matched lighting systems, water systems etc. or combine individual components to the wishes and demands of your customers.

**SYSTEMS FOR SPA-POOLS**

We offer a unique product range: components in electrical and electronic control units, jets, fittings and pumps with high throughput capacity.



**SYSTEMS FOR SHOWERS**

High quality standards and accurate manufacturing - benefit from a wide range of combinations: from the shower head up to electronic accessories.

# OUR COMPLETE RANGE OF PRODUCTS IS MANUFACTURED IN-HOUSE USING THE MOST ADVANCED EQUIPMENT.

Our metal works department is situated in Vitis, Austria, and is equipped with the latest computerised machinery. Processing of brass, stainless steel, aluminum, iron, steel, various plastics, other materials on request.



Visit Plant with in-house hardware store



CNC manufacturing hall 1



CNC turning center with automated loading and unloading



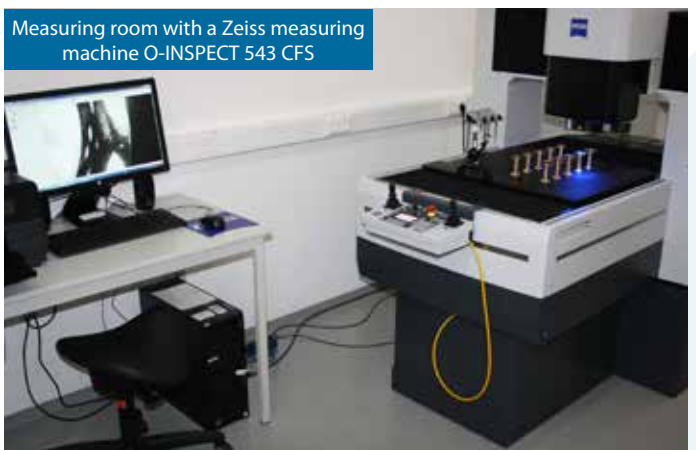
CNC manufacturing hall 2



CNC milling center with 4 axes



CNC lathe with 2 spindles and the 5 axes



Measuring room with a Zeiss measuring machine O-INSPECT 543 CFS

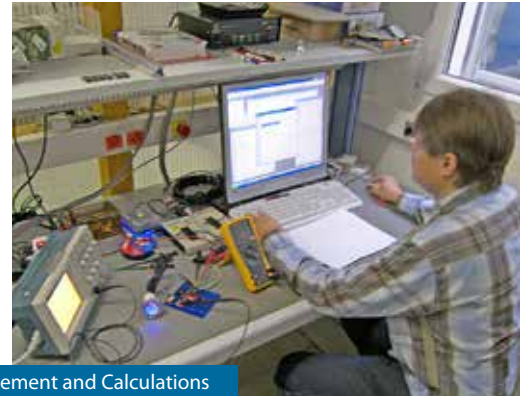
At our main plant in Vitis (Austria) we constantly update and develop new products.



CAD supported development of new products



Development, Measurement and Calculations



Electronic parts are produced in Vitis, Austria.

Electronic components are carefully and precisely assembled by our trained personnel.



PCB assembly



Final and safety inspection of electronic parts



Button manufacture

Our grinding and polishing machine (Cosmap/Siemens) with the latest technology standard – suitable for all steel and brass materials.



View into the surface treatment (grinding and polishing)



Workpiece at grinding station



4 workpiece holders each with 2 axes, 1 grinding unit with 2 grinding stations, 2 double polishing units each with 2 polishing stations. All stations 5-axis



Workpiece at double polishing station

Development and production of: swivel plates, milling cutters, press forgers, mouldings incl. polishing, varnishing and refining



sheet metal working - cuts, bending, punching, welding



Semi and fully automatic punching



Bending



Soldering place



Stamper - manufacturing for sheet metal parts



Brushing



Painting box



Grinding



Sandblasting





The latest laser technology allows a permanent marking your parts - whether chromium, nickel or plastic parts. Thus, any desired print – e.g. logos, symbols or lettering - can be engraved with laser definitely in the material.



Laser technology



Laser engraved parts



Laser engraving machine Foba Vario RD 15

Our in-house installation of whirlpool components into bath tubs and spas has given us a leading edge in component assembly. We provide tailor made solutions for your whirlpool systems.



Whirlpool assembly



SPA assembly



Testing of a finished Whirlpool

All built-in Whirlpool tubs are carefully tested, packed and provided with our reliable KOLLER-guarantee before delivery .

The finished whirlpools are carefully packed into specially designed cases and are now ready for despatch. The packing cases are also produced in-house.

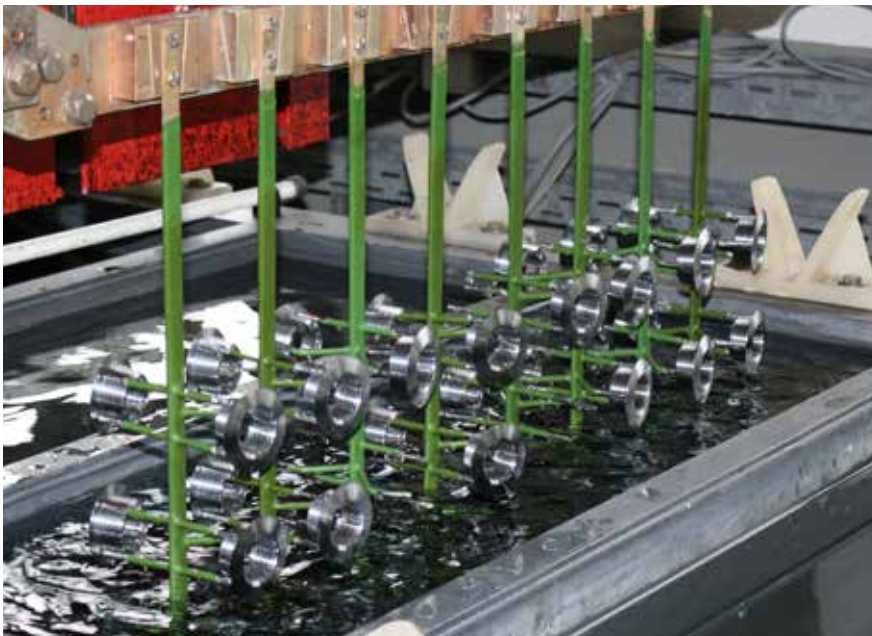


# FULLY AUTOMATED ELECTROPLATING UNIT

Our fully automated electroplating unit is state of the art and allows a constant electroplating of framed and drum components: the options bright nickel and nickel-chromium are available for the coating of your parts.



Electroplating unit -  
state of the art electroplating technology!



## SPECIFICATION of the ELECTROPLATING UNIT

### Framed components

<b>Range of production:</b>	nickel-bright and chrome platings
<b>Base material:</b>	brass and copper raw material
<b>Nickel plate:</b>	1-25 µm
<b>Chrome plate:</b>	0,2-0,8 µm
<b>Programmes:</b>	nickel and nickel-chrome
<b>Possible frame mounting (length x width x depth):</b>	500 x 900 x 200 mm
<b>Area:</b>	max. 110 dm <sup>2</sup> per product carrier
<b>Weight:</b>	max. 50 kg

### Drum components

<b>Range of production:</b>	nickel-bright
<b>Base material:</b>	brass and copper raw material
<b>Nickel plate:</b>	1-15 µm
<b>Size of the components:</b>	2-100 mm
<b>Weight:</b>	16 kg

The complete finishing process is done in-house, which allows us to offer consistent quality in all production phases.

# LOVE FOR PRECISION



## Metal and plastics technology for sectors with special requirements

Koller Metal and Plastics Technology (Koller Metall- und Kunststofftechnik) is a business segment of the Koller International Group - with long years of experience and an excellent reputation. For the precise manufacture of components we combine Austrian know-how with an efficient and economical production. We produce components that meet your requirements and, into the bargain, make your processes more efficient. The precision and quality of Koller Metal and Plastics Technology is appreciated by customers from all lines of business.

Due to our advanced facilities and our comprehensive know-how we are able to deliver the perfect metal and plastics technology for each industry – we'll be happy to advise you.



### CNC production

Cutting-edge computer-controlled metal-working for exactly turned and milled components.



### Plastics production

Top quality for your requirements



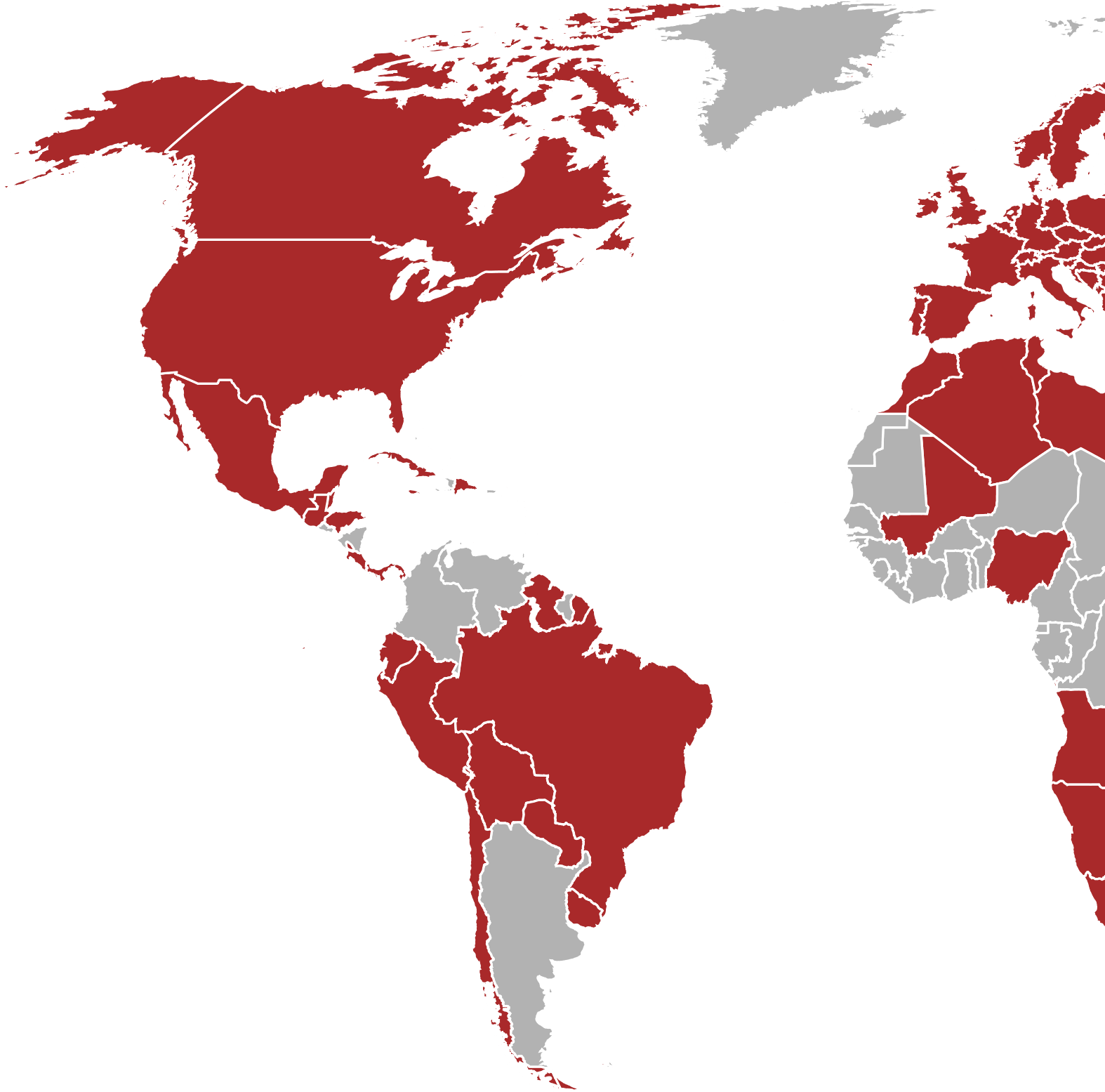
### Toolmaking

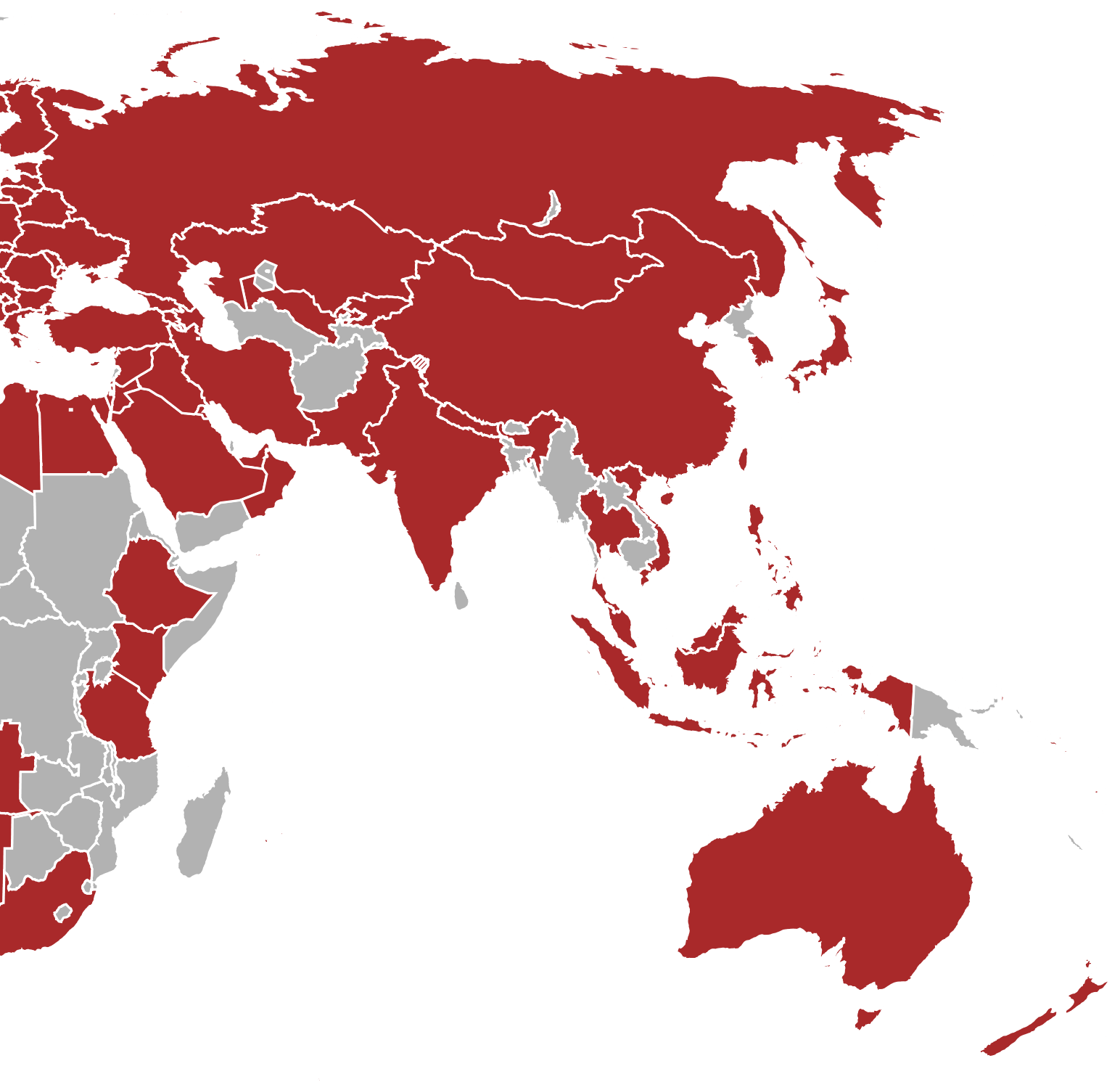
For the production of precisely tailored plastic parts.



[metall-kunststoff.rkoller.com](http://metall-kunststoff.rkoller.com)

# SALES WORLDWIDE





■ = SALES AREAS

Our plant in Jindrichuv Hradec (Neuhaus) where our plastic components and moulds are produced:



Main entrance to our plant in Jindrichuv Hradec



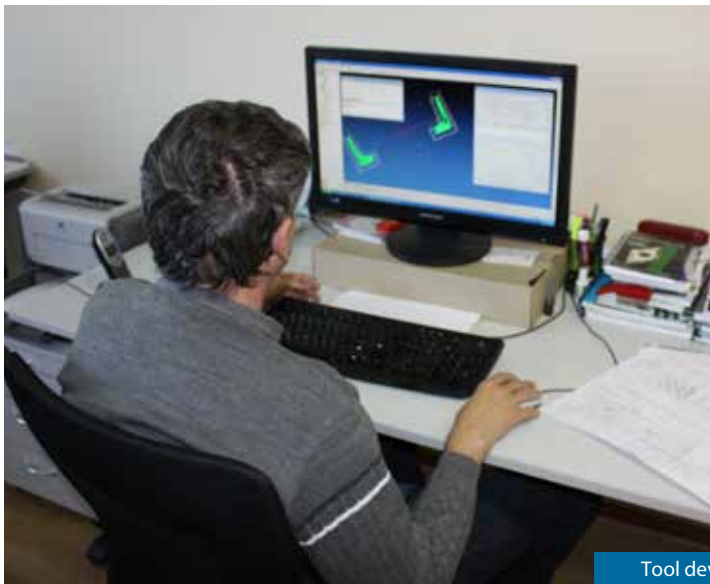
Injection moulding – all fittings and plastic components are being produced here. We process various materials, including PVC, ABS, PP, PA...



Injection machines



In-house moulds production, modern manufacturing technology, qualified and experienced personnel are the guarantee to quality, efficiency and promptness. Besides raw materials, moulds are the deciding factor for a high-quality plastic part. Experience and sound knowledge in plastic-injected moulding and mould construction are the prerequisites for an optimal finished product.



Tool development



Eroding Machinery



Wire Cutting Machinery



Tool manufacture



Sanding Machine



CNC 3-Axis Milling Machinery

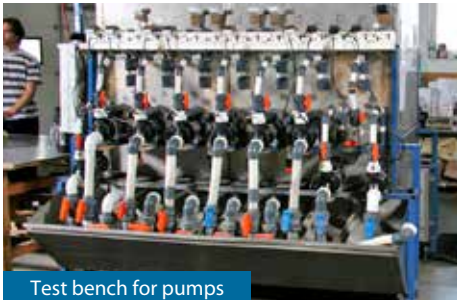
Assemblage, testing, packaging & warehouse at the plant in Jindrichuv Hradec (Neuhaus):



Pump production



Blower production



Test bench for pumps



Individual parts are assembled



Inspection and packaging



Individual parts are assembled into a complete product



Products ready for shipment



Large warehouse



Whirlpool production in the Jindrichuv Hradec (Neuhaus) plant:



Ready-made whirlpools



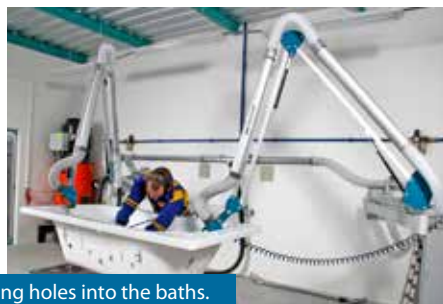
Spa pools inspection



Spa pool production



Dedicated area for drilling holes into the baths.



Pre-glued kits



Packaging



KOLLER is the pioneer of the **Fitting in Fitting technology**. These novel, continuous fittings are manufactured in our plant at Jindrichuv Hradec (Czech Republic). The KOLLER **Fitting in Fitting** method is designed to allow easy fitting into the counterpart without the need to install a junction pipe.

This will reduce the junction points by half and save on glue and working time. This new technology also allows continuous reduction fittings.

Cross section: Fitting-in-Fitting Technology



Another in-house innovation is the revolutionary **cartridge system**. To mount hose simply push in, no need to glue parts together. To dismount, simply pull out.

We are always ready to fulfil our customer's special requirements. Order for special products, own logos, etc, will be accepted at an additional cost.



Many of our visible parts are also available in stainless steel. Price and delivery time on inquiry!

Special tools are available for various KOLLER products (hole saws, milling cutters, specially manufactured keys, etc.). Please view in our Main Catalogue the „Accessories“ chapter.



All visible parts are available at additional cost in various RAL colours (according to colour pallet). Delivery time on inquiry.



We are presently in possession of over 750 certification documents for our appliances.



In recognition of our company's achievements, the federal minister for economics and labour awarded to us the coat of arms of the Austrian state. This highest Austrian honour is only awarded to companies, which excel through extraordinary achievements (especially in the export field) in the Austrian economy, which take a leading and generally respected position in their respective industry and which prove their innovation potential.



# MORE PRODUCTS FROM KOLLER WHIRL SYSTEMS



## Baby SPA Whirlpool

The Baby SPA Whirlpool is an oasis of well-being offers babies a chance to recover and is fun at the same time! Here the pleasant interplay of colors ensures a very special atmosphere during your baby's bath. Your child can enjoy the quiet and gain strength through the gentle massage produced by inflowing air. Depending on the application, the bath vitalizes and ensures a peaceful sleep.

## Koller Aqua Active – revitalized water

The new way of water treatment makes ordinary tap water as valuable as natural spring water. By simply screwing the devices developed by Koller onto the water tapping points, the water is swirled and vitalized while flowing through the tap. This innovation is very versatile and can be used in baths, households, gardens, service connections / heating systems.

## Relaxan® fragrance products

The special perfume oils and herbal extracts have been specifically designed to be used in whirlpool tubs, saunas, or steam baths. Due to the high concentration of fragrance, the products are very economical in use and create a pleasant scent.



# At your service, worldwide!



You will find all our contact details at [whirl.rkoller.com](http://whirl.rkoller.com)



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