



KOLLER METAL AND PLASTICS TECHNOLOGY

Love for precision



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 International group 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 **metall-kunststoff.rkoller.com**

**WORLDWIDE
AT YOUR
SERVICE!**

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.



View into the CNC manufacturing hall 1



CNC turning center with automated loading and unloading



Plate magazine for piece feed via gripper



CNC milling center with 4 axes



Deckel MAHO 5-axes machining center



View into the CNC manufacturing hall 2



CNC lathe with 2 spindles and each with 5 axes



CNC turning center - two-sided processing

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

The convection air furnace can be used for heat treatment at temperatures up to 600 degrees



Sheet metal working - cuts, bending, punching, welding



Punching



Semi and fully automatic punching



Bending



Soldering place



Brushing



Semi and fully automatic punching



Sandblasting



Grinding



Painting box



COSMAP

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



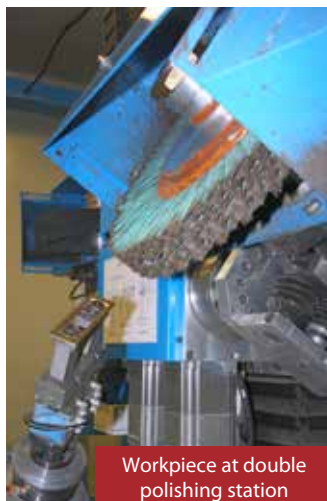
View into the surface treatment (grinding and polishing)



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 grinding station



Workpiece at double polishing station



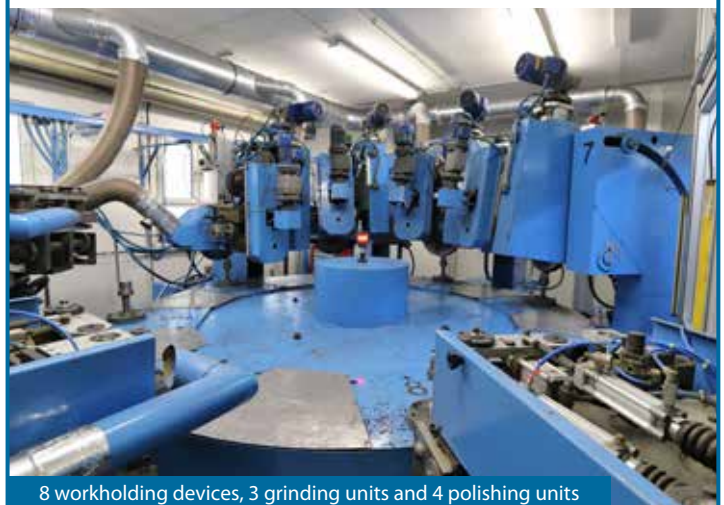
Revolving polishing machines

DAN

Grinding and polishing rotary table (**DAN-Technology**) for round parts – at state of the art – for small and large series.



View into the surface treatment (grinding and polishing)



8 workholding devices, 3 grinding units and 4 polishing units



Vacuum clamp



The completed high-gloss polished part



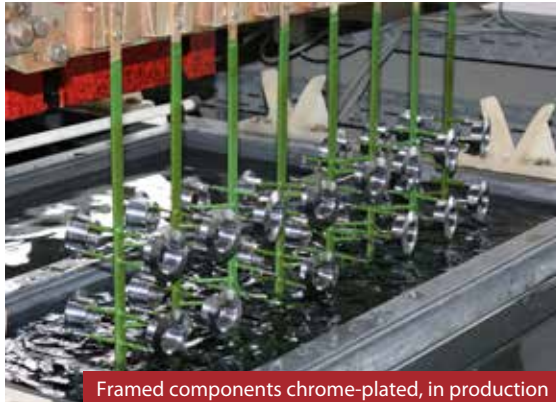
Central extraction for surface treatment according to the latest state with 100% heat recovery

6 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.



Automatic retraction of the goods carriers



Framed components chrome-plated, in production



Production process via control terminal - programming and monitoring



Panoramic view over the entire electroplating road



Barrel electroplating (nickel)



Control and plug-on places



Laser technology

The latest laser technology allows a permanent marking of your parts - whether chromium, nickel or plastic parts. Thus, any desired labels or logos can be permanently engraved with laser.



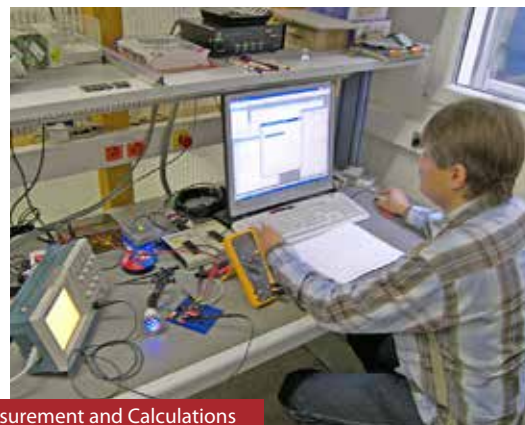
At our main plant in Vitis (Austria) we constantly update and develop new products.



CAD supported development of new products



Development, Measurement and Calculations



Electronic

Electronic parts are produced in Vitis, Austria.

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



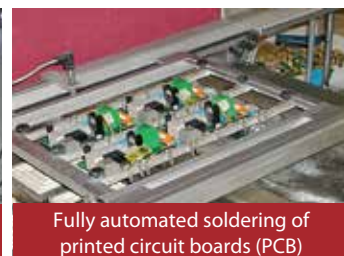
Manufacture of electronics



PCB assembly



Connecting cable manufacture for electronic button



Fully automated soldering of printed circuit boards (PCB)

In-house installation

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



Testing of a finished Whirlpool



SPA assembly

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

Production according to customer drawing or a cooperative development with the customer - Koller stands for short coordination paths and an uncomplicated realization of your wishes.



We use high-end machinery to ensure advanced computer-controlled metalworking for exactly turned and milled components. Control technology enables us to also manufacture complex forms.



Semi and fully automatic stamping, bending and cutting - we take care of your orders using different procedures.



The making of a brass part with plastic injection

Step 1: Production of the raw brass part



Step 2: Polishing of the turned raw part



Step 3: Chroming the polished raw part



Step 4: Injecting plastic onto the chromed brass part (compound of brass part and plastic)



Step 5: Logo or inscription with laser



The creation of a special part

Step 1: Turning/milling the raw aluminium part



Step 2: Brushing of the aluminium part



Step 3: Anodizing the brushed aluminium part



Step 4: Inscribing the anodized part with laser



Plastic production and tool manufacture at the plant Jindrichuv Hradec (Neuhaus – Czech Republic):

Plastic processing machines: from 25 t up to 300 t

PVC: 0.25 g – 425 g, PP and ABS: 0.25 g – 740 g. Further plastics on request



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



Injection machines



Gripper for surface-protective removal from the tool



Extruder

In our ultramodern machine park with machinery from Engel we execute our customers' orders and produce injection moulded parts of PVC, PP, PA, ABS, as well as other thermoplastics.



Sieve



Body



Screw-in part



Distributor



Fitting



Fitting



Air jet body



Press button



Shower jet body



Shower jet body



Cover ABS nature - for chromium plating



Sealing



Cover



Cover ABS chrome



Distributor

We fabricate pipes and hoses of PVC and PP meeting both customer requirements and a high quality standard. We use state-of-the-art technology to develop and manufacture products with highest precision.



We are specialized in the series production of small devices through to large devices. A very high degree of flexibility is possible through manual assembly and the quality of the product is ensured according to EN 50106 with our safety testing equipment. Due to our comprehensive machine park the manufacture of components is also possible.

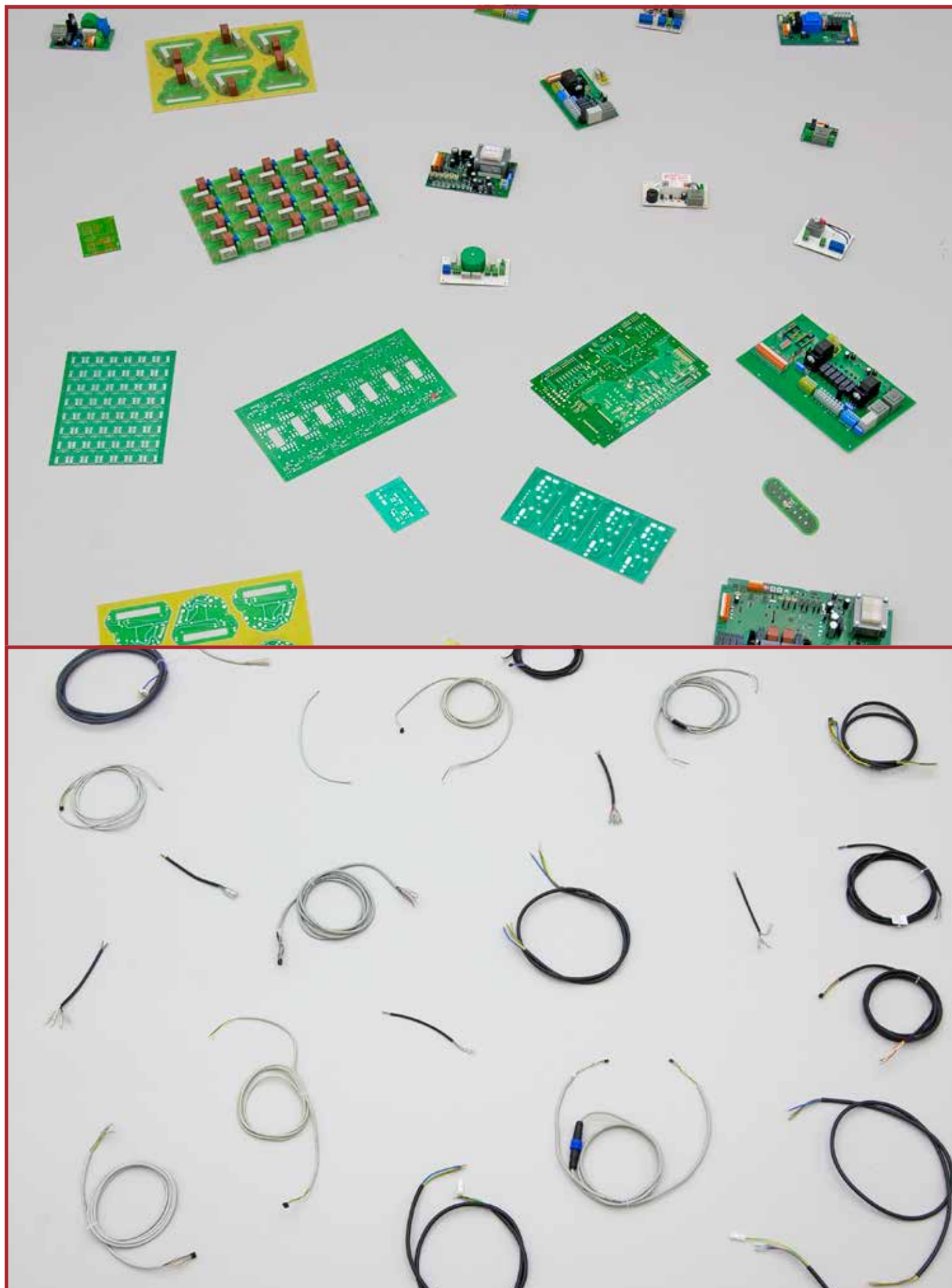


Cabel manufacture

We are flexible in the production of connectable cables and can produce small batch sizes. The appropriate cable harnesses or connection cables for your requirements are no problem - we flexibly respond to customer preferences.



Development and production of circuit boards, electronic control panels, switches, remote controls, etc
Cables in various lengths and dimensions, ready-assembled or on rolls



In-house tool manufacture, modern production technology and qualified, experienced personnel are a guarantee for quality, cost-effectiveness and promptness. Tools, apart from raw materials, are the deciding factors for first-class plastic parts. Experience and well-founded knowledge in injection moulding and tool construction are the prerequisites for the optimal design of both moulds and tools.



Tool manufacture



Sanding Machine



Wire Cutting Machinery



Eroding Machinery

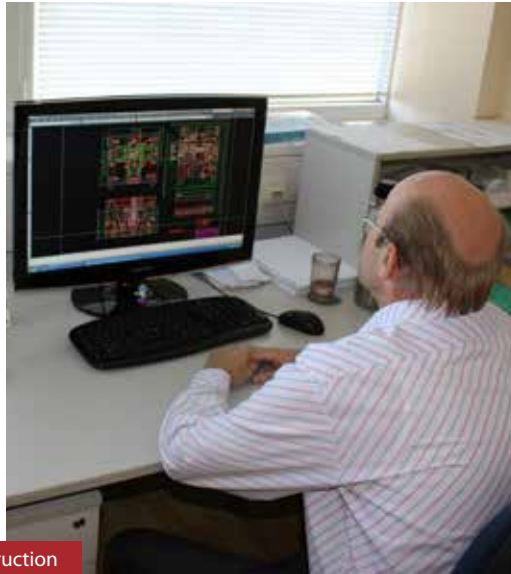


CNC 3-Axis Milling Machinery

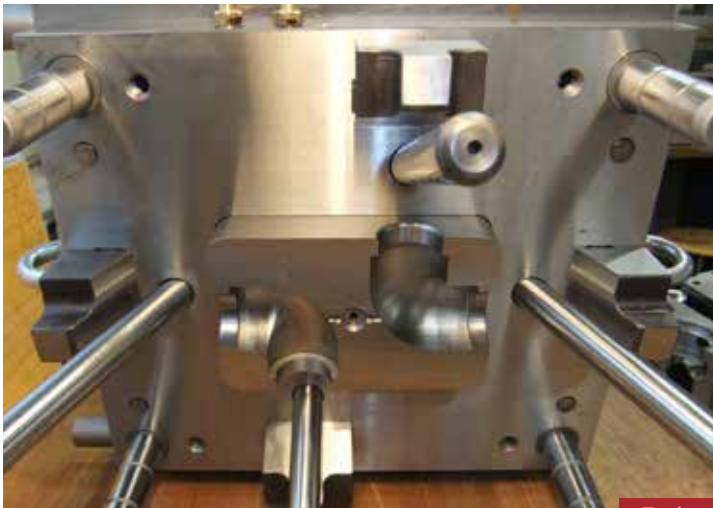
The tools for the production of plastic parts developed together with the parent plant in Vitis are fabricated by highly qualified employees. We guarantee quick manufacture and high quality - because you need the right tool if you want to process materials perfectly.



Construction



Finished tools



Tool manufacture



At your service, worldwide!



You will find all our contact details at metall-kunststoff.rkoller.com

KOLLER

**METAL & PLASTICS
TECHNOLOGY**

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