

Vogtnews



Vogt AG Verbindungstechnik CH-4654 Lostorf www.vogt.ch

New Internet presence

We are pleased to present our newly designed website.

PAGE 1

New presses and accessories

We are expanding the product line.

Core competencies

We manufacture tubular, wire, stamped and hybrid parts.

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Reflow

We already carry many standard items as reflow tin-plated.

Sindex 2016

Visit us at the SINDEXT in Bern.

PAGE 4

Editorial

In past years, we have set up our operation in line with the lean production principle, have increased flexibility and have thus achieved considerable successes in productivity and readiness for delivery. Our production facilities will be facing further radical change in the future. Under the designation 4.0, the company is responding to the extensive incorporation of information and communication technology. This is understood as the interlinking of things, services and data on an Internet. This should enable real-time production capability. That sounds incredibly exciting and intriguing, but it also means saying goodbye to predictable lead times and long machine utilization and instead constantly focusing on the needs of the market and our customers. This requires investment in machines and their peripheral equipment. Our new website will be going online in May, thus forming the start of a consistent conversion. We report further on our new product line and the benefits of reflow soldering in our current issue. We also provide more detail on our core competencies.

Thomas Vogt,
Managing Director

Surf our new website

The new web presence of Vogt AG Verbindungstechnik highlights our core competencies – **tubular, wire, stamped and hybrid parts**. The new contemporary and responsive design makes it possible to view our website on all Internet-compatible devices.

At a glance, you will find all of the manufacturing options and numerous examples of complex solutions which we have developed together with our customers.

Visit our fresh new website today at www.vogt.ch.



Expansion of the press product line

Building on many years of successful collaboration with a German press manufacturer, we are expanding our line of presses to include the newest generation. On the one hand, this expansion allows us to acquire the simple and thus inexpensive presses requested by customers, while at the same time, we are expanding our range of products to include several professional presses. The new assortment offers a basic

product line for simpler applications with a very attractive price/performance ratio. This line includes both pinion and toggle presses. The expanded product line includes presses operated by compressed air with 2-hand safety control in accordance with the Machinery Directive (CE conformity). Force/path measuring devices and their digital displays are also available along with an OK or Not OK confirmation.

Order one of these new presses online by **June 30, 2016** at www.vogtshop.ch and receive an additional **5%** discount (cannot be used in combination with other vouchers or conditions).

Enter the discount code **Pressen0616** under comments.

www.vogtshop.ch



Article No.	Designation	Force	Working stroke	Extension
4230	Rack and pinion press	1.5 kN	40 mm	63 mm
4231	Rack and pinion press	2.5 kN	50 mm	80 mm
4234	Toggle press with force/path measurement including record-keeping	7.5 kN	40 mm	80 mm
4235	Toggle press	5 kN	40 mm	63 mm
4236	Toggle press	7.5 kN	40 mm	80 mm
4237	Pneumatic press including 2-hand operation	1.5 kN	80 mm	63 mm
4238	Pneumatic press including 2-hand operation	2.5 kN	80 mm	80 mm
4239	Pneumatic press including 2-hand operation	4.5 kN	100 mm	80 mm

Core competencies

In the areas of **tube and wire manufacture, stamping and injection moulding**, we work with you to create the appropriate product. We specialise in complex **hybrid components** (plastic/metal components), tube and wire parts and micro stamped products. Our products are designed and the asso-

ciated tools made in-house; this ensures that they can be manufactured reliably using machinery, some of which we have developed or upgraded ourselves. The range of services we provide extends to labelling, packaging, inland and overseas delivery, etc.

You can also find additional information on our new website. Our technicians are also always available.

www.vogt.ch
sales@vogt.ch



Injection moulding

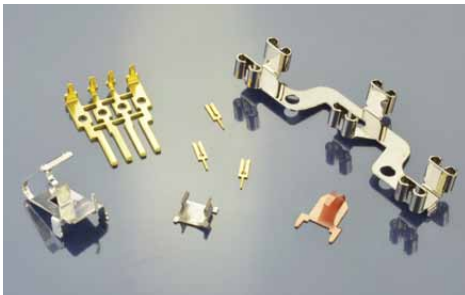
In our plastic injection-moulding department we primarily process thermoplastics and thermoplastic elastomers. Our areas of expertise include the manufacture of anything from free-falling parts to complex hybrid parts (otherwise known as plastic/metal composite parts).

If we are able to introduce our expertise at an early stage during product development, we can optimise the production process and produce this type of complex component economically.



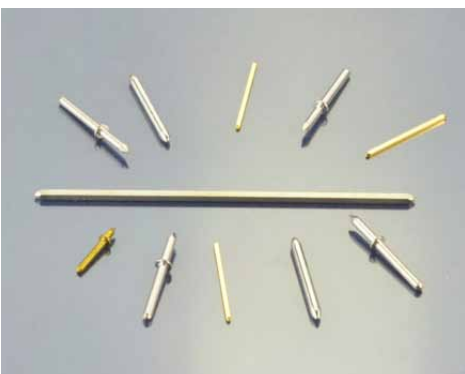
Tube manufacture

The manufacture of fine tubing encompasses sawing, reshaping (crimping), chamfering, widening, slitting and deforming. Thanks to our great precision we are able to produce alternatives to turned parts. Using the above techniques, we produce products including spacer tubes, crimp sleeves, wire end ferrules and tubular rivets. Downstream processes include annealing, vibrating, barrel finishing (otherwise known as vibratory finishing) and cleaning of parts. For the most exacting requirements, we can deploy various testing systems that support image processing; these enable components to be exhaustively tested and sorted.



Stamping

Using tools from our own toolmaking shop, we produce stamped parts of the required quality that conform to your needs and specifications. Thanks to our high level of standardisation we can extremely quickly construct stamping tools that are designed for an agreed output and for the life cycle of the product. We manufacture copper bands, copper alloys, steel and stainless alloys in thicknesses of up to 2.5 mm.



Wire manufacture

We manufacture round or angular profile wire from coils of common metals including copper, copper alloys, aluminium, steel or stainless steel using purpose-designed equipment.

The forms we can produce range from straight wire parts to products with a crimped collar or forms shaped to the customer's specification. Curved wire components can also be produced. The wire parts are finished in subsequent process steps. They are then used either as standalone parts or as constituent parts in components such as pin strips.

Reflow

The finishing of soldered parts (surface treatment) ensures not only reliable electrical contacting but also corrosion protection, wear protection and chemical resistance. Along with the commonly used treatments such as tin-plating, nickel-plating, gold-plating, silver-plating or galvanising, the reflow process is constantly gaining significance.

What is reflow?

The parts treated by what is referred to as 'reflow soldering' are heated to just above the tin melting point and then recooled. This additional heat treatment to just above the melting point creates a uniform and low-stress surface. However, this produces higher temperatures than other soldering processes, which can lead to undesired changes in the tin surface of glossy tin-plated components. Components with a semi-gloss or

matt tin-plating process optimised for reflow in the electroplating process contain less carbon in their tin layer. They thus appear more matt and less visually appealing but are much more resistant to high temperatures.

Reflow is a soldering process primarily used for SMD parts (surface mounted devices). With this assembly technology, instead of holes being punched in the circuit board, only solder pads are printed, to which a solder paste is applied. The components are pressed slightly into the solder paste during positioning and held in place by adhesion. The completely equipped circuit board is now transported through the furnace by conveyor belt. The additives (such as soldering flux and binding agents) are liquefied and outgassed in the preheating zone. After the preheating zone, the melting point, star-

ting at around 220°C depending on the selected solder alloy, is reached and the actual soldering process begins. In this phase, the maximum solder temperature is approached, which is required and can still be tolerated by the components. Existing customer feedback indicates that this generally occurs at a temperature of 245°C and lasts no longer than 10 seconds.



Figure 1
PCB tap
3866a.64
pure tin-plated



Figure 2
PCB tap
3866a.68
tin-plated reflow

SINDEX 2016

The Swiss Technology Fair is held biennially at the Bernexpo in Bern and is deemed **THE** Swiss fair for industrial automation. With its focus on services and products from the automation, electrical engineering, fluid technology, and robotics industries, we enhance the fair perfectly with our products as

a partner for the supplier industry. From **6 to 8 September 2016** SINDEX will be showing the trends and innovations from tomorrow. A good reason for us to be in the frontline.

Follow the trend and visit us at the SINDEX.

Order your entry ticket quickly and easily at marketing@vogt.ch.

6.-8. SEPTEMBER 2016 BERN **SINDEX** MASSGEBEND IN TECHNOLOGIE

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Covert to digital today at marketing@vogt.ch.