

**A passion
for pad printing**



 ***Teca-Print***
Pad Printing Equipment & Supplies  swiss made



Teca-Print – Pad printing as our "raison d'être"

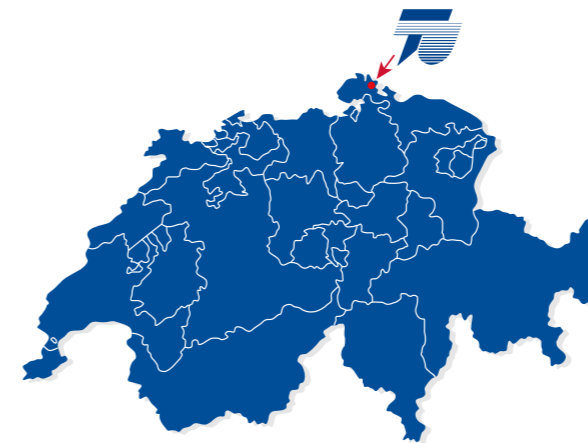


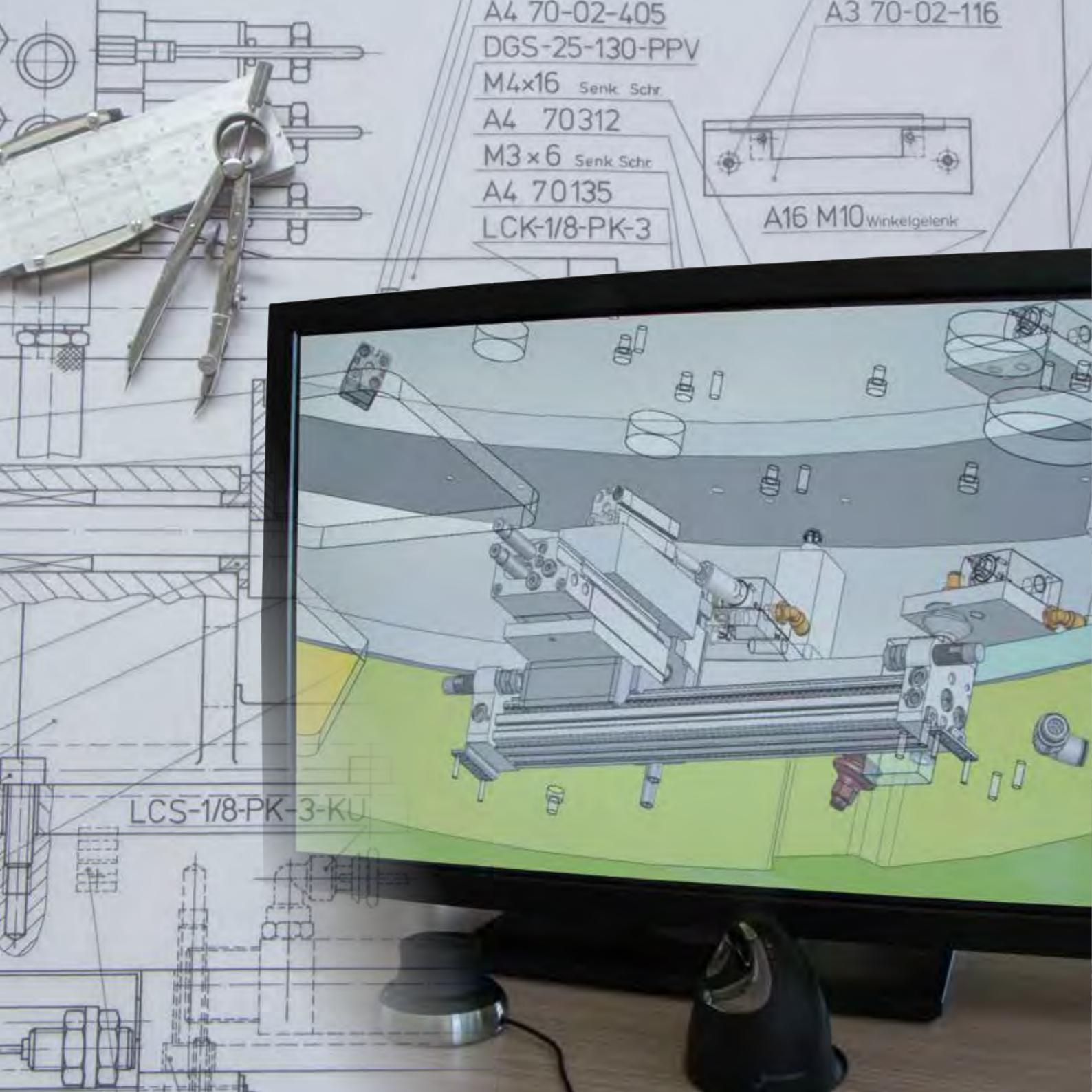
Since 1973, Teca-Print AG has been synonymous with quality and reliability in pad printing. Its products range from pad printing machines and complex automated systems, peripherals and accessories to consumables, like printing pads, inks and plates.

Teca-Print develops and produces its high-quality Swiss pad printing machines itself and, through the systematic evolution of products and the continuous incorporation of technical innovations, the company has succeeded in constantly promoting pad printing and integrating it into new market segments. Today Teca-Print is one of the market leaders in pad printing and supports customers across the globe with its own subsidiaries and long-standing sales partners.

Since 2002, Teca-Print has been an independent company within the French Dubuit International group, which has specialised in different printing processes as well as in screen and pad printing inks.

Screen printing, digital printing and hot stamping are offered in addition to pad printing within the group.





Teca-Print changing over time



Teca-Print was established as Tecalcos and the first pad printing machines, the Tecalcos 120, were developed and produced in a simple garage.

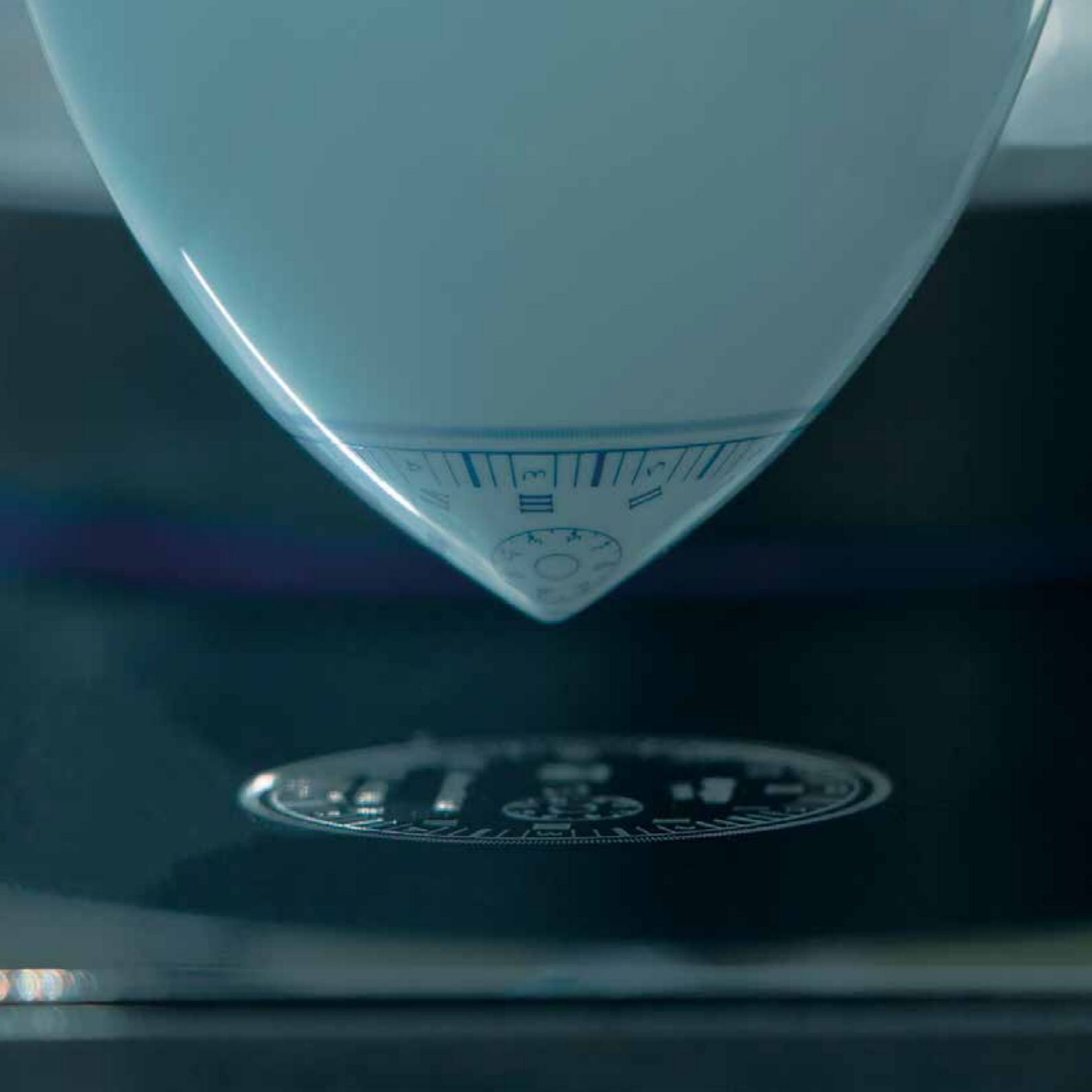
Following the company's major success on the market, the construction of a proprietary production and office building was soon needed. The company moved into its new premises in Thayngen in 1977, which since then have been extended and modernised several times and today still act as the company's head office.

Teca-Print products achieved such international success in the 1980s that the company established its first subsidiaries in France and the USA, soon followed by further subsidiaries in Germany and Hungary. At the same time, cooperation was expanded with sales partners across the globe.

New pad printing machines, peripherals and accessories were developed to offer customers the latest technical options at all times.

Teca-Print is ISO 9001-certified (quality management) and ISO 14001-certified (environmental management).





Pad printing



Pad printing is a multifaceted printing process and has grown over the last 40 years to become one of the most important printing processes. The roots of pad printing lie in the watchmaking and ceramics industry. Due to its proximity to well-known Swiss watchmakers, Teca-Print was there at the very beginning of pad printing and helped to shape the development of this printing process.

Pad printing is an indirect offset printing process, in which depressions are etched or engraved onto a flat plate, also known as a cliché, which are then filled with ink. When a flexible silicone stamp compresses on the plate, it picks up the ink and transfers it to the object. The stamp is known as a pad and gives the printing process its name.

The flexibility of the silicone enables the pad to adapt to the shape of the object to be printed, enabling textured, laminated and uneven surfaces to be printed.



Pad printing then and now



Pad printing continues to successfully overcome new challenges with its versatility and flexibility. Market requirements are growing almost daily, enabling pad printing to open up new fields of application time and time again.

Until just a few years ago, pad printing was often "only" used to apply functional labels or names, today it is also capable of creating visually appealing designs with, at times, artistic decorative printing.

Teca-Print succeeds in staying ahead of this change with customer and industry-specific products, developing solutions tailored to specific requirements to meet the particular needs of a sector. Thanks to its in-house development and production department, the company's close cooperation with customers and flexible approach are crucial for its success.

The functions of a pad printing system today go far beyond printing itself, with the integration of optical camera systems enabling continuous monitoring of the printing process and even automatic correction on request. Apart from controlling the print image, it is also often possible to check the correct position of the part in the jig.





Pad printing machines and automated systems



Our wide range of pad printing machines matches the versatility of pad printing itself:

From compact 1-colour pad printing machines to high-quality multiple-ink machines and printing systems specifically developed and produced to customers' requirements – we offer every customer the most suitable pad printing machine for their application.

It's your choice: electromechanical or electropneumatic drive, open or sealed inking system, or even lateral sliding ink cup mechanism?

We are happy to offer you comprehensive advice – even after your purchase, as there's more than just the operation of a machine behind pad printing. Our 2-day seminars teach you about the background to pad printing and offer useful hints and ideas from everyday working life – or take advantage of our individual education and training courses.

To ensure that your machine always works perfectly, Teca-Print offers you training, as well as service and maintenance for your pad printing machine.





Peripherals and accessories



Peripherals are frequently used in complex pad printing processes, and are in no way less important than the pad printing machines themselves. Teca-Print supplies a comprehensive range of the most diverse equipment and continues to develop this further.

Shuttle tables and the Transfert Carré provide for convenient multi-colour printing, while other devices, such as flame treatment units or infrared units, offer the requisite pre- or post-treatment with certain materials.

There are also peripherals and accessories, which simplify the printing process, beyond the actual printing process itself. Often it can be very simple measures that offer significant simplification. Our application engineers use these products every day so that we only offer you field-tested and optimised accessories.

The heart of the system: the printing pad



Printing pads are of crucial importance: they do more than just give the entire print process its name – indeed they also have a critical role in the printing process per se.

As the medium for transferring ink, printing pads play a decisive role in the quality of the printing, after all, an optimum print can only be achieved with clean and complete ink transfer, free from distortion.

Teca-Print has its own in-house pad production, during which the quality of the silicone, as well as pad shapes, are subject to a process of continuous development.

New qualities of silicone are developed in countless tests incorporating a wealth of practical experience, which ever more specifically take into account the individual needs of different sectors. For instance, special pads are produced to meet clean room specifications and "super dry" pads, which leave no silicone oil residue, are increasingly used.

However, it is not just the properties of the silicone that affect the printing process. The pad shape is also decisive when it comes to the print result, as it determines the rolling behaviour of the pad. Teca-Print supplies almost 2'000 different pad shapes, a number that is rising constantly, thanks to systematic and individual development work.



Cliché and cliché service



The cliché plate carries the print image. Teca-Print supplies all types of plates suitable for pad printing: plastic plates, steel plates, steel plates 05 and ceramic plates. Each type of plate can be sub-divided into further subcategories.

While ceramic plates are engraved by lasers, the print image is etched into a light-sensitive layer on the plate with all other types of plate. A film with the print image is placed on the plate and exposed to UV light. The parts covered by the image remain soft and are washed off or etched after they are exposed to the light, depending on the type of plate.

The material quality of the plate is critical to the final quality of the print-ready plate, with even the file for the film template, as well as the engraving and etching, having a crucial impact on the print result. Teca-Print offers you a complete service for the production of your cliché, from the production of the file, film, etching, exposure to UV light to the print-ready plate. The combination of our employees' many years of experience and high-performance technical equipment ensures the professional production of your plates.

Our in-house cutting service for plastic plates guarantees the shortest possible delivery times for all requested plate sizes for customers who wish to produce their plates themselves.





Pad printing inks: brilliance and service for every shade



A wide range of pad printing inks is available today. All Teca-Print pad printing inks have been especially developed for pad printing and designed for rapid processing and cycle times. The most appropriate type of ink is selected, depending on the material to be printed and the requirements governing the adhesion of the ink. LED inks are increasingly used in addition to the widely-used 1- and 2-component inks. They can be easily processed and have a long pot life. LED drying, which is needed to dry the inks, is energy-saving and dries the ink in the shortest possible time.

All types of ink are solvent-based and come in a wide range of standard shades, including metallic shades and daylight luminous inks.

Based on the common mixing systems Teca-Print offers to produce non-standard ink tones or tones to match customer's samples. You not only profit from our ultra-fast ink mixing service, you can also have the colour of your choice in small quantities of 500 ml or 500 g if required.



 ***Teca-Print***

Teca-Print AG
Bohlstrasse 17
8240 Thayngen
Switzerland

Tel. +41 52 645 2000
info@teca-print.com
www.teca-print.com