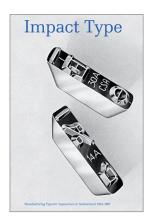


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Sophie Wietlisbach (ed.)
Impact Type.
Manufacturing Type for Typewriters
in Switzerland, 1941–1997

English edition: ISBN 978-3-03863-088-3

Caractères.

La fabrication des caractères pour machines à écrire en Suisse, 1941–1997

French edition: ISBN 978-3-03863-089-0

Book design: Sophie Wietlisbach 224 pages, 162 images, 16 × 24 cm, softcover with flaps

Euro (D) 29-, Euro (A) 29.90, SFr. 29.-

With texts by Sophie Wietlisbach, a preface by Roland Früh and a postface by Davide Fornari

Book launch: February 19, 2025

as part of the symposium «Automatic Type 3» at the ANRT (Atelier National de recherche typographique), Nancy (France)

→ https://automatic-type-design.anrt-nancy.fr/colloques/automatic-type-design-3

New Release January 2025

A Swiss History of Industry and Typography

- History and significance of the Swiss typewriter type manufacturers Caractères SA, Setag, and Novatype
- A history of industry and typography beautifully illustrated with numerous previously unpublished documents
- #5 of the Visual Archives series, in cooperation with ECAL

Three Swiss companies manufactured type for typewriters between the 1940s and 1990s: Caractères SA, Setag and Novatype. For over fifty years, they supplied leading office machine manufacturers in Europe and around the world, including Remington, IBM, Olivetti, Paillard-Hermes and Triumph-Adler.

These three companies, which held a major position on the world market, were instrumental in the creation, development and manufacture of type components and typefaces for typewriters, and indeed for impact printers in general. These visually distinctive typefaces occupy a significant place on today's typographic landscape.

This volume, with its detailed portraits of Caractères SA, Setag and Novatype, explores the history behind these typefaces and the historical context in which they were produced. It offers fascinating insights into the global impact type industry. When the three Swiss factories closed in the 1990s, most of their archives were destroyed. As a result, this research quickly turned into a very detailed investigation aiming to document this period of history by means of primary sources.

This publication brings together the fruits of several years of research in numerous locations to reveal previously unpublished image material and cast a spotlight on a little-known chapter in industrial and typographic history, both locally and internationally.



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About the editor

Sophie Wietlisbach works as a independent graphic and type designer in Fribourg, focusing on editorial design, type design, and illustration. She graduated in Visual Communication from the Bern Academy of the Arts (HKB), followed by a master's degree in Type Design from the ÉCAL/University of Art and Design Lausanne (HES-SO) in 2020. From 2020 to 2022, she worked as a teaching assistant for the master's degree program Type Design at ECAL and is currently involved in several design research projects.

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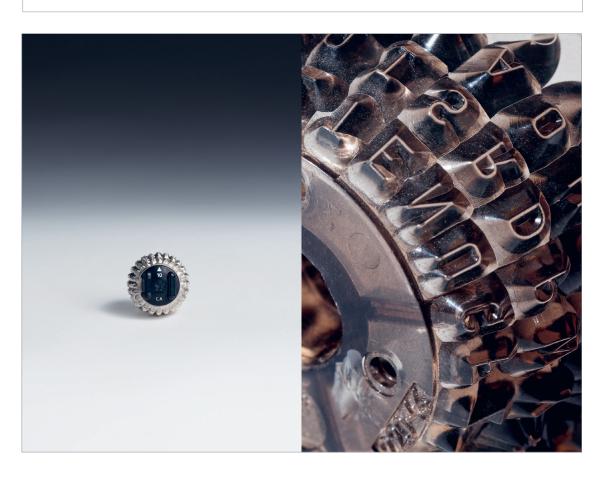
Deep in the Neuchâtel and Jura Mountains

Typewriters and typefaces are now obsolete but remain embedded in the fabric of our global social and industrial history. Over the course of the 20th century, they became a vital adjunct to modern life, and every office, administration and household had to have its own for its documents, for both professional and private use. This technology, nowadays only found in museums or the homes of devotees, left a clear mark on graphic design and typography, and indeed, on wider society.

From the 1946s onwards, the bulk of the type used on type-writers around the world was manufactured in the Neuchâtel and Jura mountains in north-western Switzerland. Three companies were based in this area: Caractères SA, Setag and Novatype. Their customers included leading office machine manufacturers such as Remington, IBM, Triumph-Adler, Olivetti, Paillard-Hermes and Facit. For more than 50 years, between 1841 and 1987 to be precise, astronomical quantities of type left their factories to go throughout Europe and all around the world. Together, these factories probably shared more than two thirds of the world market for impact type. They initially specialised in metal type slugs and then, as technology progressed, went on to produce millions of plastic balls and discs. They also manufactured type components of all kinds for other devices (e.g. calculators, card printers and high-speed printers) using impact printing mechanisms. L'Impartial, a Swiss daily newspaper, wrote in 1962: (The manufacture of type is the result) of the technical developments of the time, in particular the boom in calculation and statistical tools. Our contemporary world is full of typewriters and calculators, robots churning out increasingly accurate forms, tables, sums, and even translations and statistics at an alarming rate. To meet this new demand, our need for type (letters and numbers) has increased exponentially!*

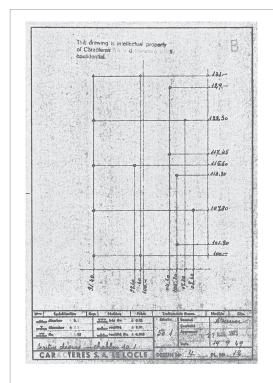
Specialised skills, tools and personnel were required to manufacture these small parts: type slugs for impact printing type, where metal wa

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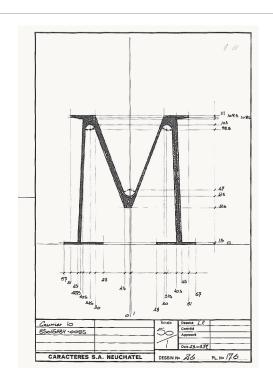




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Dimensioned drawing at 50:1 scale for the letter 'B' in Chèques typestyle, 1949. Drawing by Alfred Bauer, Caractères SA



Dimensioned drawing at 50:1 scale showing the cutter path for the letter 'M' in Courier 10 typestyle, 1979. Drawing by L.F., Caractères SA

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The Caractères SA factory at Rue du Parc, Le Locle, in an advertising brochure from Caractères SA for injection-moulding tools and parts, 1987. Unknown photographer

The Caractères SA factory at Rue du Plan, Neuchâtel, in an advertising brochure from Caractères SA for injection-moulding tools and parts, 1987. Unknown photographer

The Caractères SA factory at Rue de la Jaluse, Le Locle, in an advertising brochure from Caractères SA for injection-moulding tools and parts, 1987. Unknown photographer

Caractères SA. Le Locle and Neuchâtel

Caractères SA, often referred to by the acronym CSA, was a family business founded in 1942 by industrialist Alfred Bauer (1907–1991). In just a few years, the company became one of the global leaders in this field and maintained its top spot for nearly 50 years. They supplied customers such as IBM, Triumph, Facit, Olympia, Olivetti and Remington. "According to an account by managing director Sergio Tatasciore in an article in 1986, some newspapers saw the company as the world's leading type manufacture, estimating that it held 75% of the world type market." In 1973, the company itself claimed to cover 65% of this market. Caractères SA clearly occupied a dominant position in the industry.

Alfred Bauer was from a peasant familus who owned a small farm and six cows in Les Bénéciardes, a few kilometres from La Chaux-de-Fonds. He wrote:

'We weren't ever hungry, but we had to make sure that everyone got their share.'*5

everyone got their share."

He was the only one of six children to continue his education after primary school. At the age of 14, he entered the La Chaux-de-Fonds Business School. After he graduated, his family could no longer afford to pay for him to go on to university. He worked first as a commercial employee, then in charge of accounting restructuring and eventually in sales. In 1932, he married Madeleine-Lina Guyut (1910-1989), "a woman from Le Locle, and they had three children, Eric, Lucienne and Jean. In 1933, he accepted the post of director at Huguenin Frères et Cie SA, a company based in Le Locle specialising in the minting of medals. He was offered the job

competition."

He managed to develop new products, such as stainless-steel watch cases and tableware and diversify the company's revenues and customers. Business quickly picked up.
During this time, Alfred Bauer developed a keen interest in type design and manufacture. He was aware of the country's advantageous geopolitical location and had an inkling of the industry's economic potential especially as Huguenin already possessed all the necessary machinery and technical know-how. In 1938, he began trials of type production at the factory in Le Locle, with a view to further diversification. After some time, he successfully produced his first type slugs, but unfortunately no office machine manufacturer showed any interest. They were all happy enough with their German suppliers. Alfred Bauer had to wait until 1941, before Precisa SA, a Swiss manufacturer of calculators, placed its first orders. However, shortly afterwards, Georges Huguenin-Sandoz, the president of the

- 82 Questionnaire sent by the Zurich forensic police to Caractères SA and their responses, 23 August 1973. Class 1984.

 4 Impartial 1986.

 4 Impartial 1986.

 5 Experiment 1986.

 5 Rose 1980, p. 2 Our translation.

 5 Bauer 1990, p. 2 Our translation.

 6 Bauer 1990e, p. 1. Our translation.

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2yxcvbr QWERT

Detail of a sample of the IBM Mid Century proportional typeface manufactured by IBM from 1950 and by Caractères SA from 1968 for the IBM EI Executive typewriter, in the original copy of the Atlas der Schreibmaschinenschriften, 1998.

Detail of a sample of the Detail PS proportional typeface manufactured by Setag, taken from a Wang machine in 1986, in the original copy of the Atlas der Schreibmaschirenschriften, 1998.

Detail of a bullet on a sample of the Zurich PS 876 proportional typeface manufactured by RaRo from 1987, in the original copy of the Atlas der Schreibmaschinenschriften, 1998.

TZ Z de

Measuring the height of a letter using a macroscopic magnifying glass at the Zurich Forensic Science Institute, 2019. The letter is measured from the middle of the stroke to the middle of the next stroke. Photo by Sophie Wietlisbach

In the Offices of the Forensic Police

The forensic police took a close interest in typewriter typefaces. As typewriters were increasingly used in everyday life, the police needed to be able to recognise and identify typefaces in many of their investigations. The police services wanted to be able to identify and date all typed documents accurately for legal purposes. Over the course of the 20th and early 21st centuries, experts developed multiple systems for classifying and recognising typefaces, collected samples by the thousand, compiled a wealth of documentation and developed appropriate methodologies to differentiate accurately between different variants.

In most cases, a microscope was used to identify typefaces by comparison. Forensic experts first measured the height and width of the characters and then identified the style. Pica, Elite, Courier, Cubic or other. They then consulted their type samples and listed all the typefaces that matched the design and dimensions so that they could compare them under the microscope. One of the most important publications in the area of identification was, and still is, the one compiled by German police officors Josef and Bernhard Haas. It is commonly referred to as the 'Haas Atlas' and came in the shape of four ring folders in which over 300,000 samples of typefaces are systematically catalogued. It is arguably the world's leading reference work in this field and offers a virtually exhaustive compondium of all the typewriter typefaces available in Europe from 1920 until the end of the 20th century." Other widely recognised classification systems are those provided by Ordway Hilton, David Crown, Gerry de la Durantaye and Interpol. A special microscope was used to superimpose two of the same letters and compare the superior of the same letters and compare the superior of the same letters and compare the superior of the same and interpol. As special microscope was used to superime the superior of the same and interpol. As special microscope was used to superime.

1890b. In 1980b. In 1980b. Penhard Hass. In

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Caractères SA (1942–1994)
Typeface catalogue, 1990.
Back cover with a double-material plastic printwheel, a metal printwheel and a typeball.
Unknown ubotoeraraber.

157 Caractères SA (1942–1994) Digital Chinese characters ECR 217 folder, undated. Cover page stating the intellectual property rights of Caractères SA

