

MUSEO NAZIONALE DELLA
SCIENZA E DELLA TECNICA
LEONARDO DA VINCI

COMMEMORATIVE EXHIBITION
OF THE INVENTION OF THE TYPE-WRITER
UNDER THE AUSPICES OF THE MINISTRY OF EDUCATION

IN THE ANNIVERSARY OF THE INVENTION, FIRST
GRANTED TO GIUSEPPE BASTOGNA - NOVEMBER 1861



MILANO
PIAZZA S. VITTORIO, 11

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ARCHIVI DIGITALI OLIVETTI

COMMEMORATIVE EXHIBITION
OF THE INVENTION OF THE TYPEWRITER
UNDER THE AUSPICES OF THE MINISTRY OF EDUCATION
ON THE CENTENARY OF THE INVENTION PATENT
GRANTED TO GIUSEPPE RAVAZZA - NOVEMBER 1912

MILANO
PIAZZA S. VITORE, 11

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The Committee wishes to express its thanks to the following Corporations, Firms and Gentlemen, who contributed to the realization of the Exhibition:

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The Exhibition was decorated by MR. DE RIZZARDI and
MR. PENTORI.

ARCHIVE DIGIT OLIVE

Our Museum, pursuing its program of historical documentation of fundamental factors of progress in the fields of Science and Technique, has taken the initiative of reprinting an historical Exhibition of the writing Machine, noting the evolution of the anatomy of the invention-patent, granted to Blaise Pascal from Nature for his «Compte de l'Arithmétique».

The most primitive evidences, as well as the most recent improvements of the machine and science of mechanical writing have collected, show clearly an ample succession of graphic activities through centuries: issuing by a graphic act, in its widest sense, the written expression of man's thought, thus supplying the documentation of one of the most spiritual human activity. The cordial thanks of the Museum of Science and Technique are rendered to all those who have contributed to the Exhibition in its various aspects, and to all those who have put at its disposal photographs and precious copies of various sets, particularly to those who have complemented, assembled and the suggestive documentation of all manual graphic expressions, accompanied by short historic notes. The contribution of the Swiss Industrial and Agricultural Chamber of Commerce has deserved special thanks for manifestly documenting the invention of its fellow-countryman and for generously undertaking the illustration of his invention by various valuable publications.

ARCHIVI DIGITALI OLIVE

From the moment the gift of intelligence was granted to man, the powerful instinctive impulse rose in him to lend his thought a stable permanent form, allowing it to be transmitted to other people; hence the manifold graphic devices he found it difficult through signs by means of which drawings of material objects, or of a rudimentary signification of the implements then used by them.

In the course of time, more and more complex and perfect forms of graphic representation, by definition such as without colour, were developed, intended and fit to represent not only concrete objects perceptible by the eye, but also facts, even to conceive a real expression of a thought of abstract ideas, even of philosophical conceptions and religious tenets, up to the sublime elements of highest speculation. Such a magnificent scale of evolution could not have been accomplished, even in degrees and in different forms, taking advantage of possible material conditions, but making use of the products of different civilisations.

The smooth scale of signs leaps far in Egyptian hieroglyphs, which, even in their primevalness without the sound of any text unknown to some modern masters of signs and Egyptian Egyptian ideograms, which Russia alone exhibited ethnologists as interpreters, being again in the beginning even a world full of fascination, which might be dynamically projected on a screen. If only ideographic signs could be allowed to grow into animated systems, the light Chinese pencil marks characters, which were to evolve from this world brutal-

er, to offer us the idyllic vision of a smiling civilization, all intercourse with fables and legends. Austrian and Balydorian smileless characters, reaching the soft blue with rigid wedges, produced smileless tablets, the shores of forested continents and horizons, a mirror for bibliophilists proud of their well furnished libraries.

The smiling machines engraving hard stone and leaving for goldsmiths and miners of our times paragraphs of skillfulness, might have supplied an archaic printing-house with a primitive model-making possible to get from one stone thousands of copies. If only the writer had got the idea of hammering the solid surface with a boring column penetrating into the channel and then of placing over it a sliding surface, which, pressed with a roller, would have anticipated our printer's proofs. Then we might have had the first rudiments of tablet impressions thousands of years ago, long before the Chinese got it.

All this stands alive in the last part of the exhibition of legation art, as it may be defined, which contributing to diminish the impressive show of art manifestations, imparting in our eyes a possession of ancient civilization and making a living experience of classical images kept by Museums, had of perfect graphic devices prepared by Art Galleries.

The wonderful genius of Leonardo had seen not how keen in advancing the value of alphabet for the exact expression of scientific thought, than he had been, as usually, busy in creating the power of signs to represent the inner feelings of souls. Galileo is the master of the instrument, ready to put in motion when in writing while the simplicity of characters to cover the possible permutations of a language with a few «catacumbas» (Galileo).

Galileo, the Florentine born, the master of «convexes», represents the alphabet, too. From Hologram forms, reducing material figures of the ideographic period to a fixed style, the transmission of an aesthetic Greek idea offers, and then, in the square Roman capital letters, but, once again, through the sign of characters, or the changing aspect of signs, in the denunciation of graphic values in the most various phonetic elements of a language: often the entire group of a people, or its relative scope, or even the ancient impressions of distant immemorial ages.

Then the various aspects of alphabetic graphics, which has found a place in our Exhibition, born a «Preface» to the previous, existing the «Machine» (Grellmann).

Grellmann's invention was inspired, indeed by the last stage of graphics: the alphabetic graphics does not get the immense spark of using alphabet letters of casting «types», at following the process of the word composition and living motives just as in handwriting, alphabetic characters are drawn on a line. Mobile characters, and typographic press (perfected by Linotype's genius in the well-known Italian drawing) are the two symbols of the history of mobile graphics, as a medium of spiritual communication of thought among peoples.

But it is not our task to illustrate this invention and the glorious Italian connected with it, from Aldo Manuzio who in his «*muscula*» (title types) and the capital shape of his small volumes, forever has stamped his graphic influence and constant printing in a quiet Academy, to Giovanni Battista Bodoni, who in his «*typographic Handbook*» and French square without luxury stimulates the reader to do well in art and to behave plainly in life.

The world now trust in a new system of numbers and would like to turn towards typographic perfection, after getting rid of all the «*chirping*» noisy distractions of America. Civilization is learning from French «*Revolution*» popularized the new ideas of the Encyclopedists, newspapers and magazines have been no longer used by «*romanticism*» alone, whose invention were in former times limited to «*romanticism*» and their.

In the field of such a graphics, discovered also by our Exhibition by means of an accurate and combination of drawings and typographic materials, the modern world of thinking people has a golden of its own, «*the Press*», and her servants on the linotype and the cylinder press — the writing ideal, and as shown growing today the use of turning the impalpable ether into a graphic shape, from which to address all peoples of all Continents.

And behold! already on the horizon, like a dawn circled with a halo of light, another ideal appears, the instrument, leading a mechanical leads even in our most intimate personal writing.

The Italians are to be criticised for having created the instrument required by new times. Exhibitions are often the outcome of a nervous life more and more inventively and fastidiously by people under different climates; as was it with the birth of the printing machine made slow by commercial life passing more and more leisure, and by the increasing amount of trade.

Pietro Gatti from Grosseto, in Tuscany province (1791-1871), and Giuseppe Ravina from Novara (1818-1892) were the two inventors of the idea: the former in theory, the latter in practical reality.

Unfortunately, the "Comitato Nazionale" failed to be honoured by a commercial success, the lack of necessary material correspondence, and the work of a very modest level of personal activity, which could not lead to the wanted perfection; or even the consequence of the importance, which would not wait for the necessary execution to be obtained, up to classical perfection, through the successive layers of painful expenditure and loss.

The most honourable position in the exhibition is held by the "Comitato Nazionale", represented by a model which has enriched the history of time, previously presented by Ottavio Onorato to our Museum. It is motivated by the documents of an occasion, the difficulty of which can be especially measured from the lack of present pictures, on which to cast a confident look for search and comparison.

Giuseppe Ravina, a lawyer, librarian, archaeologist and philologist, who spent his life in the quiet of his studies and the scholarly training of his domestic laboratory, saw his labour — the writing that Italy needed — but this bright light never before he reached his goal, and it is only a posthumous glory that is bestowed to the memory of a man, whose life was disturbed by the distress of a weary freedom-fight work, both as an inventor and an activist.

The idea, however, had been cast — like Gatti's die — and the inspiring atmosphere had harmoniously embodied, even in its smallest details, in a model based on simple practical architecture, a room with a simple machine.

The substantial stage of the typewriter, which allows of its entrance into the stately building of Modern Life, opens with the "Ravina-type". Over its portal the names of Gatti and Ravina stand out engraved in golden letters, while a banner

ing Dantique, warning may be heard hovering above: "Ye who enter here, did not see — your testament thought to turn — so soon for all inventors".

The exhibition, in its latest phase, gives its answer to the cosmopolitan spirit of our times, by placing, by the side of ancient relics of archaic art and large models of a past, rich in experience and the need to reorganisation, the most recent living present: period of his machine, period of technical perfection, eagerly aspiring to being the indispensable companion of modern life.

The particular occasion for this exhibition — a show in commemoration and celebration of Ravina's "Comitato Nazionale" — has limited its scope within the orbit of mechanical inventions, housing inside the marvellous inventing machines, clattering operations of high mechanical analysis, and simplifying complex statistical computations, as well as repeating machines supplementing libraries, to supply the printing with more and more rapid working sheets and more and more accurate compositions.

But you, welcome visitor, who are passing by the hospitable chamber of a Museum which is unique in Italy for the multiplicity of problems and wealth of models, think, please, of the long expanse of time, stretching from prehistoric times, whose ages are millions, to our own, when the unity of time is measured by the hundredth part of a second. And then, applying your attention to the rough page of smooth rolls of paper — and thanks to the sheet of paper, really improved by an accurate type through a writing-machine that never knew expense or haste — consider what amount of effort and obscure sacrifice Man had to undergo to achieve his last conquest, a brief victory, however, for purpose of presenting humanity with the realisation, by his hand, manner, of a useful machine, of the death by a dream made visible, by writing, through all events.

G. A.

PREHISTORIC TIMES

Engravings and drawings on stone, wood, bone, and have performed the function of messages, besides their aesthetic and religious meaning, within the narrow limits of small communities and a short span of time; but they do not convey any words, only instinctively thinking of messages. This prehistoric kind of writing, made up of pictures, known as carved lines or other geometrical figures, drawings of scenes, animals, symbols of human figures, gave back some means to diary, diagram, trace (upper prehistoric period).



EGYPTIAN CIVILIZATION

The hieratic, demotic, and the Coptic writing for current use, are but complications of hieroglyphs, the oldest hieroglyphic script, used mostly for monumental inscriptions. In the earliest period, these hieroglyphs were only symbols representing actual concrete objects (like, earth, man, animals) but in a later period, the same symbols assumed a conventional phonetic value. Such characters used for the transcription of the spoken language, but differently from a real word alphabet. In a further period, the Egyptian writing was changed by the spreading of Greek characters, and then languages, entering a dark, inaccessible mystery; and, in 1822, Champollion, the French Egyptologist, succeeded in deciphering the famous inscription at the Rosetta stone.



MESOPOTAMIAN CIVILIZATION

Early cuneiform writing also had an ideographic value; but already in the Sumerian period, with a highly civilized people, such a primitive system of expression must have proved unsatisfactory; and previous groups and combinations of cuneiform signs representing fixed syllables and connected signs must have been used as a representation of any word. No cuneiform writing was made widely spread or fixed longer than this (lasting from about 3000 B.C. till about the Christian Era); but it was used by a large number of peoples, speaking different languages: i. e. Sumerian, Assyrian, by Aramæans, Elamites, Babylonians, Persians, Elamites, Greeks, Armenians, Persians, Romans, and many others.

CHINESE CIVILIZATION

From the earliest pictographs and ideographs, rapidly also to ideographs, advanced on building materials, perhaps as standard marks or trademarks, sometimes both as an original conventional form without. Pictographs have progressed to a new different system: the «*Shang*» & a corresponding about 30 marks, and the «*Shang*» & a corresponding perhaps 60 marks.

The discovery of Chinese writing in some of these inscriptions of importance on clay tablets, — have remained, not in this form, but in and permanent in some of the more ancient in ancient China.

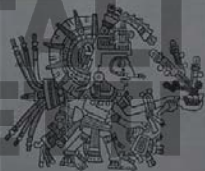


The primitive ideographic Chinese writing, as evolved from beginning from the right side, did not undergo a real true evolution in the course of time, in spite of the wide use of a reference collection of this people, except for the prevalence of a more and more rigid system of its signs.

Thousands of signs, indeed, are provided for the Chinese writing, this not being alphabetical, and every ideogram representing only one word, even in case of monosyllabic words, as is the case, for instance, with the sign WAN, which is used, both for a surname and for wine (domestic). Such ideographic hieroglyphs are only about five hundred. The need of a new script system of writing is deeply felt in modern China.



By the time of the discovery of America, the highest civilization indication, that of the Maya people, the inhabitants of the country corresponding more or less to the present Honduras, had already fallen into decay. Many sections of their magnificent writing are still visible in the imposing monuments of their architecture, but the ideographs which marked the varying form of the European conquest are lost. The introduction of the hieroglyphs has revealed the marvelous knowledge that people had in the field of mathematics and astronomy. At the time of the discovery of America, Mexico was ruled by Aztec, whose civilization had reached a very high level. The writing of this people had already surpassed the ideographic stage and reached a highly advanced ideographic stage, perhaps closely approaching the pronunciation of the present form of ideographs, in a way not unlike the present ideographs in Egypt by ideographs. Indeed, some remarkably refined signs, combined together, had been already adopted phonetically as signs of names and places. But the European conquest and the following prevalence of the Latin alphabet stopped any further development of the native writing.



The Caucasian origin of the Greek alphabet is now almost universally admitted. Through a rapid evolution, it supplanted its stock of signs with some particular symbols, attesting a degree of simplicity fully in tune with the polyphonic character of the language. Following the triumph of the Greek art and the increasing of spiritual Greek influence over the ancient world, the alphabet became equal to its great vocation, allowing different languages still in their infancy to grow in accuracy and perfection. In fact, the Etruscan writing and the Latin alphabet must owe, however indirectly from Greek. In a further period, and still later, the Gothic and Cyrillic characters were added, as well were also borrowed from Greek. — And for some letters still retained, as retained, from earlier writings.



Etruscan inscriptions and documents can be read, though they are not yet understood. In some white clay tablets signs are known, the language itself is still unknown. The alphabet is, essentially, the Greek-Latin one, which the Etruscans perhaps learned from Gallic colonies of Campania; except some signs, whose origin is quite different. The great documents of this writing are numerous, especially, as they belong to different times, as archaic ones, as ancient ones, and a most recent one, deeply influenced by Latin characters.





LATIN CIVILIZATION

This alphabet appears in its capital manner, as the very earliest with few exceptions and occasional errors, already fully developed, conventionalized and harmonious. Though derived from the Semitic characters, having not those signs (especially some consonants) which found no graphic correspondence in its language, it soon took up several characters to them. From the upper, round letters no vertical stems, more important pictures derived, of which became very scarce, resulting, as in a given, the horizontal member and broken lines of writing; but the capital letter-writing, the capital letters remained, and the archaic conventional.

In spite of the power of the Roman Empire, the Latin alphabet prevailed in every part of Europe, especially after the barbarians' attack upon Roman civilization. The Catholic Church having in the seventh century adopted Latin as its Roman language and Bible language, caused the language wherever the Church was preached. The well-known varieties of social and family characters, as well as of Italy -- with the pre-

a b c d e
j i h g f
k l m n o
t s r q p
u v x y z

A B C D E F G H I J K L M N O P Q R S T U V

W X Y Z

ter features of the people who used them (Goths, Lombards, Visigoths, Anglo-Saxons, Irish etc.) -- are always almost unperceptible deformations of the primitive Latin writing, due to gradual phonetic representations of capitals. After the pure consonant and its spelling, the use of the use of Latin alphabet grew wider and wider. Under it is adapted for most languages by civilized peoples.



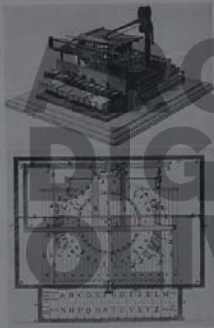
GIUSEPPE RAVIZZA

It is difficult to overstate how, and where, had been the location of a writing machine — as it is the case with most other machines. The attempts made before the XVIII century, however clumsy, pointing to a wood-boring bit, represent the psychology of modern expression. Such as the Italian P. Torri (study in P. Cavigli, 1899), and the American A. North (1779), the Frenchman Pignat (1811) and G. Bédet (1815), the American G. Thompson, the Brazilian de Almeida, and the American Minshullist, and he produced among his admirers. The first to formulate and find the solution in all technical problems relating to it, and to manufacture an actual writing machine, was the Italian Giuseppe Ravizza (1855).

II «Cembalo Scrivano»

One hundred years the life of three generations; apparently a wide stretch of time, but only one instant in the history of civilization. However slow the first steps of a technique may be, the schools of its progress will eventually turn quicker and quicker, operating miracles. The lack of instant, even phenomenal, of the early system will be followed by a constant change to the memory of the leader of the idea. This is the case with Giuseppe Ravizza, the first Italian inventor of an actual writing machine.

One hundred years have just elapsed since, on the first of September 1855, this Norman lawyer, then well known for his good charitable activities, as a provincial councillor and president of Norman youth hospital, and for the famous contribution given to the history of his region by valuable publications, applied to the patent office in Turin — the city of his University course, awarded by a doctorship in law — for a patent in the language of a «Cembalo Scrivano» after Henry Harpichordt, or a keyboard writing instrument. Many a year — perhaps a score or more — Ravizza had been working in sleepless nights upon the scheme of a machine to replace the lost handwriting; and he had been working full ten years, in the wing of his house transformed into a makeshift factory, at the making of a new piano, whose boys were to form the alphabetical pentagram destined to revolutionize the writing world, nay, the world itself.



GÉOMÉTRIE MÉCANIQUE

The first idea of a *Géométrie Mécanique* may perhaps be traced to a remote theoretical idea of Pierre Louis Simon Cauchy, a little village boy from Normandy (May 22, 1798, - May 1826), but its realization went through enormous difficulties for lack of money and experience, in a succession of delays and setbacks, which is documented by Fourier's *Journal*, only partially published, of the period 1814-1820, but all the central ideas of the solution of the mechanical-writing problem are found in the statics models, the work of the earlier levels and industrial levels of the barons from Normandy.

Such is the working of genial minds: they know the whole problem, as well as the original writing particular problems which are going to exist the whole of their existence in the possession of the perfecting of the invention, but in their searching, and while going, themselves, gradually, the side lines of the fundamental problems raised by a project, they point out in the eventual ways to reach further along. Witness the speculation raised by Fourier himself in his short patent (Laplace, 1820), how to make the writing visible by the type, which was to be furnished, and then solved in a revolutionary way, only by the end of the century, without any the remains of a personal disposition in the work on the technique, which, even at present, is raising the efforts of some few solitary searchers. Fourier's *Géométrie Mécanique* got praise from some of his contemporaries, but it wanted a more potent connection between a French del. *proposant commercial* (Laplace, 1820) and a *Le Temps* (Gaston) a certain Calcutta Galt having taken interest in it.

Georges Bagatti, a poet, declared he had personally been present at a first performance of the mechanical system in Yver.

Le *Globe* *Caennais* (1820) and *Leipziger* *Post* (1821) the father of the great wireless (1821) book, also interest in it. Various national and international exhibitions (the one held in London in 1862, among others, awarded a prize to the inventor), but models and diplomas were like qualifying points without potent encouragement, a laurel without the almost being commercial support.



- 1 — Sholes
- 2 — Sholes (Remington)
- 3 — Remington
- 4 — Hammond
- 5 — Columbia
- 6 — Hall
- 7 — Williams
- 8 — York
- 9 — Smith Premier
- 10 — Franklin
- 11 — Picaud
- 12 — Empire
- 13 — Dwyer
- 14 — Oliver
- 15 — Grandville
- 16 — Lambert
- 17 — Williams
- 18 — Underwood
- 19 — Imperial
- 20 — Kautz
- 21 — Mignon
- 22 — Emerson
- 23 — Higgins
- 24 — Dwyer
- 25 — Oliver (M)
- 26 — Corona
- 27 — National
- 28 — Oliver (M)
- 29 — Jovita
- 30 — Oliver (M)
- 31 — Evered
- 32 — Typewriter for the Blind

ARCHITECTURAL DIGITAL OLIVER

SHULTS (1881)

original drawing also given by Benjamin Lathrop Shultz, Carlo Clouston and Samuel V. May's (1881). The type bars are arranged along a ring and actuate a common rotating arm from underneath. The paper is carried by a rectangular frame and the writing is on rubber. The keyboard is a piano type only. This system — which was the pattern for the first Remington — is very like the "Graduate" system as patented by Marcus Shultz from London.



SHULTS & GLOBE'S REMINGTON, 1877
(Shack Golden Typewriter)

In 1877 industrial typewriter manufacture first started in E. Remington and from Watertown, Mass., N. Y.

This machine is based on the patent of Shultz. Blanking typewriters are arranged along a horizontal ring of links the roller from underneath. The writing is not visible to read the letters under the carriage as usually used in today's.

This machine with only upper case letters. The lower placed on the right side of the machine is for the carriage return and the writing is not also possible to operate it by means of a handle.

Very interesting is the keyboard arrangement, that is practically the same adopted in modern typewriters. This arrangement was adopted with the purpose of avoiding the collision of the type bars and frequently used letters are placed far from one another.



REMINGTON, 1870.

For more than 20 years the Remington typewriter, with most visible features, was hardly employed.

In the Remington typewriter model 2 (1870) we find for the first time the small letters besides the capital ones. The upper-case still has means the carriage forward. The model evolved is model 3 (1875), with a 17 keyboard.



REMINGTON

Evolved for the first time by James H. Remington in 1870, as a direct descendant of the First typewriter (1860). Types are arranged on 2 wheels, depending on the type font number of an angle corresponding to the letter selected, while a steel hammer strikes the paper typing the sign.

The printing wheel system of the Remington machine represents an ultimate solution in the typewriter construction followed by many designers. Two important characteristics of this system, compared with the type bar principle, are the simplicity of the writing and the lower cost. The model evolved is model 3, with interchangeable type arranged on three rows.



BLICKENSULZER (1890)

A French model of the American Blickensulzer, is representative one of the first attempts of a portable typewriter with a relatively complete performance, its popularity was due to the reduced weight and to the low cost.

A model of this typewriter with some parts in aluminum was sold in England under the name of Featherweight.



OLIVER (1890)

By Thomas Oliver. It is another example of horizontal arrangement of the typewriter in order to obtain the isolation of writing.

Typex are situated on frames hinged on parallel axes. They move with a horizontal movement. For writing the capital letters the roller can be moved horizontally.

This typewriter has the following:



EDERMANN 1001

A single-line typewriter. The type-cylinder strikes the paper with force, and it is therefore possible to obtain unusual surface effects, both good and bad.



UNDERWOOD 100

The first studio typing system designed in 1896 by Frank Smith Warner is at the origin of the first Underwood typewriter and represents a new movement away from the typewriter because it left behind all typewriters with no visible writing, as well as all other attempts of visible writing. The typing mechanism includes, between the key-board and the type-bar a bell-shaped line connecting the back of the key. The type-bar is fixed in a slot of the plate and it is pressing on a single wire between that is easily removable, thus allowing the individual replacement of the type-bars. The returned ball is actuated by the type-bar and not by the key-board.



COLUMBIA 1884

This mechanical typewriter was well known for a certain time, in spite of its modest performance.

To type a sign the letter must be moved so that the indicator comes opposite to the letter and then the letter is ground down. The types are linked by means of an indicator.



BALL 1897

The types are fixed on a rotative plate. The indicator is moved on the dial and depressed in correspondence to the letter, taking by means of an ink ball.



RAPID model 120 (1946)

A typewriter with 120 spaces and variable carriage; and key automatic release with carriage speed checker consisting of an expanding brake momentary magnet.



STENOY GRAPHIC WRITER

Typewriter for the Shorthand alphabet for the use of blind people. The six keys correspond to the six fundamental points of the Shorthand alphabet. The writing is relief is not immediately legible. The complete keyboard consists of eight to left along the writing line. The paper sheet (17 x 30 cm.) can be typed on both sides with line or point spacing.

Produced by The Royal National Institute for the Blind, London.



OLIVETTI M 1 (1910)

The first Italian typewriter designed in 1910 by Ing. Camillo Olivetti and manufactured at Ivrea. It constituted at its time the typewriter model a truly advanced design and its basic features are those of a modern standard typewriter. It was a high speed machine, thanks to the system of its lever action in which the typewriter stroke is abbreviated, without raising a lever profile and a less rapid action of all the keys. It was one of the first typewriters equipped with a distinct tabulation.



CORONA (1920)

A portable typewriter.

The carriage can be tilted forward for an easier carrying. It is a typewriter system machine, notwithstanding its weight is very reduced.



INVICTA (1901)

A standard typewriter designed by Ing. Giuseppe Gluckens, and manufactured at the Invicta Works, Torino. Its production was then born to fill the several Italian manufacturer industry.



OLIVETTI M 10 (1901)

A standard Typewriter produced in 1901. The first typewriter with semi-automatic margins controlled from the carriage and with the carriage stop for the indicated paragraph. This typewriter was remarkable for its new writing and constant alignment.



SMITH PREMIER (1886)

Manufactured by A.T. Brown, is the first machine the typewriter with the paper from underneath and the writing is not visible. The model exposed is model 18, of 1886, with front strike and a seven row keyboard arrangement. In the typewriter history Smith Premier is a remarkable example of individual attachment to such an important observation as the extended keyboard.



FRANKLIN (1886)

Manufactured by F. Kidder, this typewriter was an ancestor to the modern Franklin.

It is a reliable writing typewriter. The type action is very simplified, the same as in the contemporary arrangement of the keyboard, the key levers are directly connected with the type bars. There is also a ribbon vibrator, so that the ribbon, when the machine is not writing, is kept out of the writing line.



KRALICE (1906)

A visible writing typewriter. Two rows keyboard; each actuates four signs placed on a rotating cylinder, which is brought to the height of the selected type by means of three lateral keys.



HARLING (1906)

A simplified typewriter.

The key comes on a dial, thus positioning the disk of the type. Types are linked by an ink-pod.

It is not much more than a re-stapewriter, that disappeared very soon from the market, like many other partly abandoned machines.



WILLIAMS (1895)

Manufactured in 1895 by John Newton Williams, it is one of the first typewriter machines with visible writing. The visibility is the result of a particular arrangement of the type bars which strike the paper with an articulated action, moving from their resting position on the keyboard. The visibility is of one line only.



SIMON (1907)

Manufactured by C.E.N. Simon, who had introduced typewriting in 1904.

The writing is not visible, but for the first time we notice the typebars that ensure a positive alignment of printing; paper are taken by an inked and with a better result in the typed work.

Each bar corresponds to a single type. The keyboard has such an extension that touch-typing is virtually impossible. The universal ball is in the center, and it includes a universal joint.



A.B.C. (1867)

A single key typewriter produced by A.B.C., Boston. It was the most diffused among single-key machines; its equipment included dial and typewriting roller for several alphabets.



EMERSON (1867)

Another example of typewriter machines with writing revolving. The typewriters are supported by vertical axes parallelly arranged to front of the roller. The typewriter assembly can be moved up and down, moving from the writing position.

Adding the vertical bar the professional utilized by the 1860s and a keyboard, with the keys arranged in four rows, the most important in the possibility of the single shifting of the carriage as of the typewriter assembly compared to the double or even triple shifting necessary with keyboards with the keys arranged in two or three rows.



PTT-01 04 (1868)

Designed by J.D. Langbein. The first typewriter with front stroke. The writing is completely visible. The ribbon, with a normal height of 12 mm (1/2") is supported by a horizontally hinged reel. The shift key raises up the type-bar assembly and depresses the keyboard.



EMERY (1880)

Of Canadian origin, this typewriter was designed by William P. Kilb. In design it completely differs from the earlier machines and represents another attempt to obtain the stability of writing. The type bars have a new arrangement, with a horizontal sliding movement; the key pushes the bars with a high positioning rack. In this way the typewriter instead of striking the ribbon by inertia, like in other typewriters, is pressed against it. This typewriter was on the market for a very long period.



REMINGTON (Remington)

In the 1 No. 5 machine the writing system is by pressure, and not by hammering. This is achieved by including in the mechanism an elbow, that brings the lever in the alignment position thus leading directly the stroke of the typewriter.

A single mechanism acting as a mechanism accumulator and giving the necessary typing pressure, is attached to the elbow-joint. The machine exposed is Remington No. 5 model 5, of 1911.



OLIVETTI M 20

The Olivetti typewriter M 20 was a revised design of the model M 1, and Italian as well as foreign export called it as the most complete typewriter then on the market. The most important new features of this model were as follows:

- the shape of the carriage and of the accumulator got an improvement;
- simplification in the number and in the form of the parts of the typewriter mechanism.



IMPERIAL (1880)

Typewriter writes the letter downward and are directly actuated by the corresponding letter. The depression of the shifting key moves the keyboard and the typewriter smoothly.



KANZLER (1880)

This typewriter offers a very curious example of the combination of two typing systems: the hammerless and the pressure typing. Four different letters actuating a particular letter system based on a geograph principle, lifting the type, which are arranged in groups of eight, against the roller by means of a push rod.



GRANDFATHER AUTOMATIC (1896)

An improved model of the Royal typewriter (1890), of Remond Eldredge, Boston.

The typewriter mechanism works with the groove system: the letters are arranged on two rows. The shifting mechanism moves the letters correctly. In the keyboard there are included two keys generally absent in preceding typewriters: they are the carriage return and line spacing key, and the carriage release key.



LAMBERT (1896)

A typewriter without keys, designed by Frank Lambert, Brooklyn. Instead of the keyboard we find a disk with a series of buttons around the edge. The disk can revolve around its axis, and pressure, in each position, a typewriter identifies the tracing of a sign on the paper is obtained by a slight pressure on the correct key, that actuates a steel hammer. This simple press mechanism, common to all the types, makes this typewriter a very economical product.

Cognome LAMBORGHINI
 Nome BRUNO ROMANO
 nato il 25/07/1936
 (alto n. 795 P. I S. S.)
 a FERRARA (FE)
 Cittadinanza ITALIANA
 Residenza IVREA
 Via VIA SOAVA s. 7
 Stato civile CONIUGATO
 Professione DIRIGENTE INDUSTRIA
 CONNOTATI E CONTRASSEGNI SALIENTI
 Statura CM. 180
 Capelli GRIGI
 Occhi CASTANI
 Segni particolari



Firma del titolare Bruno Romano
 IVREA 15/07/2004
 Impronta del dito indice sinistro
 SINDACO
 Funzione incaricata

ARCHIVI
 DIGITALI
 OLIVETTI

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 BRUNO ROMANO