

Everything you need to know about Multi-tools and cutlery



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represents practical high quality products, inspired by the ingenuity of the Original «Swiss Army Knife».

### Core philosophy of the VICTORINOX Family

«Our efforts to offer consumers around the world functional and practical high quality products at affordable prices, gives our lives deeper meaning and adds joy and satisfaction to our work.»

### History of Victorinox Ibach

In the 19th century Switzerland was still one of the poorest countries in Europe. Unemployment forced many Swiss to emigrate.

Confronted with this situation, the mastercutler Karl Elsener, son of a hat maker, wanted to create jobs. However, since he did not wish to build a factory, he founded the Swiss Cutlers' Association, with the objective of cooperating to produce knives for the soldiers of the Swiss army in Switzerland.

The first delivery to the Swiss army was made in 1891. Some 27 fellow cutlers participated, but gave up because a German firm was able to produce knives more cheaply at its industrialized plant in Solingen than was possible for Swiss craftsmen working by hand. Only the initiator, Karl Elsener, persevered, but lost all his money in the process. Relatives came to his rescue by granting him a loan to avoid bankruptcy. Later, following the success of his «Officer's Knife», he was able to repay the loan to his relatives. Furthermore he also paid his suppliers and creditors, voluntarily and without any obligation, the 50 % they had agreed to forego at the time, including interest and compound

interest. Under the circumstances prevailing at





that time, it was an adventurous undertaking for a craftsman to build up a factory using industrial methods, and required almost superhuman determination.

The soldier's knife was very robust but relatively heavy. Karl Elsener therefore developed a lighter and more elegant knife for officers, which had even more functions. He called this new model of pocket knife, which had only two springs for six tools, the «Officer's and Sports Knife». He had it legally registered on June 12, 1897.

However, unlike the soldier's knife, the «Officer's Knife» did not become part of the army's official equipment - which is why Victorinox writes the name «Officer's Knife» in quotation marks. Nevertheless, this did not hinder its success. Army officers bought the knife themselves at cutlery stores, and this versatile pocket tool rapidly became a favorite everywhere.

Thanks to an inheritance from Bulgaria, the Elsener family were able to purchase the Mühlematt property in 1939, on which the new factory building would be built in later years.

In the Second World War (1939-1945), the

Schwyz at the end of the 19th century: in the foreground on the left the home and business-house and the workshop of the founder Karl Elsener.

Α1

#### The ancestors and descendants



Annamarie Elsener-Wiget 1801-28.9.1847

Victoria Elsener-Ott

13.10.1836-1.7.1909



Peter Oswald Elsener-Wiget 11.1.1791-2.7.1850

Balthasar Elsener-Ott 14.8.1826-3.12.1893

Karl Elsener-Holdener

9.10.1860-26.12.1918

The grandfather of the company founder, Peter Oswald Elsener, came from Zug to Schwyz at the age of 25 in 1816 and set up a millinery. As a 5-year-old girl his wife, Annamarie Wiget, was buried in the Goldau mountain slide (500 dead) on September 2, 1806 and was rescued from the rubble after 14 hours. Her mother died trying to save her youngest child.

Peter Oswald's son. Balthasar Elsener, added a furrier's business to the millinery and felt production.

His capable and energetic wife Victoria, née Ott, ran the hat shop in the family home at the Ochsenplatz.

She was full of energy and drive but was also warm-hearted and helpful. After her death her son Karl chose her first name Victoria as the brand name.

On September 5, 1885 Karl Elsener, the company founder, married the Schwyz-born Josefa Holdener, and the eldest son Carl was born on 31 July 1886, followed by five boys and two girls. Josefa died during the birth of the last child at the age of 34.

Karl Elsener-Holdener often went on Saturday outings with his children, nieces and neighbors' children. They were very fond of him.



Josefa Elsener-Holdener

17.1.1861-16.8.1895

Elise Elsener-Gut 23.12.1900-13.10.1991



Carl Elsener-Gut 31.7.1886-22.5.1950

Carl Elsener married on 19 May 1921. His wife, Elise Gut, worked for a whole 62 years in the office of the knife factory from early morning until late at night.

Carl Elsener served his apprenticeship in Ibach and Clairemont-Ferrand in France. He withstood the crisis years of the 1930s without a single redundancy, despite the fact that his competitors in Solingen received 15 % export bonuses from the state.

He played a key part in the development of stainless steel for knives from 1921 to 1934.

#### The founder



Karl Elsener, 9.10.1860-26.12.1918 founded the company in January 1884 and in 1897 created the original «Swiss Army Knife» which later became famous all over the world.



nosedive of exports was offset by a surge of contracts for domestic shipments, in particular to the Swiss army (soldier's knives, bayonets and officer's daggers). The 117 staff on the payroll at the outbreak of war climbed to 199 by the end.

During the early war years, the two sons Carl (in 1939) and Eduard (in 1942) joined the firm to become the third generation to prepare to take up the responsibilities of management.

The many workshops strewn through nine old buildings were proving an increasing drawback to rational manufacturing.

The spacious halls of the new factory built in 1943 enabled production capacity to be quickly expanded.

Building a new factory created a heavy debt burden. Luckily, however, the widely feared post-war recession did not develop as after 1918; far from it, an utterly unexpected boom got under way.

In 1946 a new hardening facility and surface grinding shop had to be built. Father Carl Elsener dedicated all his energy to the development of the factory during these years, from early morning until late at night, neglecting to take proper care of himself.



The home and business-house until 1934.

Office, shipping department and sales room on the 1<sup>st</sup> floor and production on the ground floor.

This building is more than 500 years old.

On May 22, 1950 the unstinting creator died an untimely death, at the early age of 64 years. From that time on, Mother Elise Elsener, who had already thrown herself wholeheartedly into the service of the firm as her husband's righthand helper, took up the weighty task of running the business with her sons Carl and Eduard.

Steadfast efforts to rationalize and update production processes, tuning capacity to mounting demand, made it possible to offset at least part of the annual rise in wage costs and keep prices down. This enhanced competitiveness and was instrumental in promoting the steady expansion of exports year on year.

More and more interest was received from abroad. After the Second World War the PX stores of the US Army, Marines, and Air Force sold large numbers of the «Swiss Army Knives» to US officers and soldiers. The exchange rate of the USD at that time was CHF 4.31.

Over the years further useful features were built into the practical multitool, and improvements were made in their functioning.

Today, the «Officer's Knife» is available from stock in more than 100 different variations and combinations.

In 1953, we were visited by Mr. Hartkopf from Solingen, who sold the «Windmill» vegetable knives from Solingen in Southern Germany and Switzerland. He was impressed by the quality of our pocket knives, and wanted to sell these for us in Germany. The start was difficult however. For example, he sold some Officer's Knives to his friend Maurer, a master-cutler in Heilbronn. Mr Maurer ran the workshop, and his wife ran the shop. She sent the knives back, with the comment: «You can't sell knives like these in Germany». Until 1969 there were only cheap foreign pocket knives with red handles and the Swiss emblem on sale in the Swiss Souvenir Trade. We did not succeed in preventing the foreign manufacturer from marking his pocket knives with the Swiss emblem.

After the court ruling he could however be forced to do so. The Souvenir trade was used to trading with cheap souvenir articles and it is for this reason that we created the Elinox-series (today's EcoLine). Later on, to our surprise, the higher-priced VICTORINOX pocket knives proved to be the better sellers than the lower-priced Elinox-series also in the Souvenir trade.

On January, 2 1979 the individual enterprise «Messerfabrik Carl Elsener» was changed into the family owned corporation «Victorinox AG».

Out of regard for the specialised trade, in particular the Swiss Master Cutlers Association, the Ecoline pocket knives were produced from 1979 to 1994 with a different form of the logo and with light-red handles for a large-scale Swiss distributor.

Until 1991 VICTORINOX was growing in a most satisfactory way, however the competitive pressure from the Far East made business difficult for the western cutlery industry in general and also for the largest employer, VICTOR-INOX, in the Canton of Schwyz.

The prime objective of Victorinox has always been the creation and the safeguard of the workplaces. Every human being needs a useful type of work and the possibility for a meaningful way of life. To offer workplaces is a contribution to the public welfare.

VICTORINOX was looking for the best way to keep the company strong and sound in order to prevent it from being weakened through eventual subsequent heritage partitions.

To this end the VICTORINOX business foundation comprising 78,4 % of the VICTORINOX capital was established on 27.10.2000 and 15 % are held by a charity foundation which was set up on 26.10.1994. Together with the management however, the Elsener Family continues to feel totally responsible for the business. VICTORINOX's record is exemplary in terms of environmental protection and recycling, and we have even carried out some pioneering work. Thus we need virtually no heating oil to heat the plant and the 100 flats adjacent to it, thanks to large investments in a vast heat recovery installation. Due to specific overdimensioning of the ventilation pipes, filter, heating and cooling areas, the energy consumption for the ventilation could be reduced from 150 to 70 kwh by equal performance. Plants capable of recycling an annual 600 tons of sludge were developed on our initiative and thanks to our cooperation.

For many the VICTORINOX «Swiss Army Knife» has become an indispensable and useful companion as well as a symbol for Swiss quality. The Swiss souvenir traders confirm that the «Swiss Army Knives» are the best-selling souvenir articles.

The knife has been successfully put to the test on expeditions to the arctic ice of the North Pole, on the highest peak on earth, Mount Everest, in the tropical rain forests of the Amazon, and elsewhere, and in situations of extreme danger and great need it has even proved to be a lifesaver.

A small brochure available in English, French, German, and Spanish contains a collection of true stories from around the world where the «Swiss Army Knife» has played a significant part.

The «Swiss Army Knife» even orbits the earth as part of the official equipment of space shuttle crews. US presidents since Lyndon B. Johnson present guests to the White House with Victorinox pocket knives. A special highlight came in 1997 when President George Bush, and his wife Barbara, honored the factory in Ibach with a visit.

More than 250 companies, outside of our trade, have used the «Swiss Army Knife» in advertisements as a symbol to promote the quality and versatility of their own products or services.

For hobbies, camping, or picnicking, it is indispensable. As one American aptly described it: «A friend! Not just a knife.»

The 9/11 disaster has affected badly our pokket tool business. Nevertheless, during the last 90 years nobody has been made redundant on account of the recession.

We shall try to further consolidate our position on the world market. At the same time, we will have to ensure the stability of our company. In order to remain competitive in the future, we will have to push ahead the rationalisation and automatisation processes, adjust our product range to our customers' requirements, and become increasingly active on the spot, i.e. at the points of sale. On April 12, 2005 the WENGER SA was taken over by VICTORINOX which was very positively received and commented upon by the official Swiss Radio and Television as well as by the entire Swiss Press.

The relationship between WENGER and VICTORINOX is based on a friendly competition.









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### Tables

#### Swiss soldiers' knife













#### Swiss army officers' knife



#### Development of knife production from 1884 to 2007

		Number of employees	Surface of manufactu- ring, stocks and office	Sales in CHF 1000
1884 1909 1930 1934 1939 1945 1950 1955 1959 1965 1970 1975 1980 1984 1990 1995 2000 2005 2007	25 years 50 years 75 years 100 years	1 22 74 85 137 210 230 300 320 390 510 520 730 810 900 924 960 910 903	50 300 1'600 2'600 6'000 6'300 7'000 7'200 7'200 7'200 11'000 27'000 27'000 27'000 27'000 27'000 31'000 33'000	? 487 486 880 1'568 2'428 2'580 4'838 11'478 20'457 36'676 65'455 90'000 160'000 186'000 238'000 197'000 212'000

### The development of the Swiss soldier's knife

1.	1891	wooden scales 144 gr	•
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- 2. 1908 fibre scales 125 gr.
- 3. 1951 fibre, stainless-steel 90gr.
- fibre with bushings 90 gr. 4. 1954
- 5. 1961 alox red 72 gr.
- 6. 1965 alox silver color 72 gr.
- 7. 1980 alox with Swiss emblem
- 8. 1994 regular instead of tubular rivet

#### The development of the «Swiss army officers' knife»

1.	1897	fiber scales
2.	1909	fiber scales with cross,
		since 1923 also stainless
З.	1937	Celluloid scales
4.	1946	new can opener
5.	1951	new can opener and alox linings
6.	1961	new reamer and invisible rivets
7.	1968	ring instead of shackle
8.	1991	corkscrew without decoration
		groove

### The development of the Trademarks

ELSENER SCHWYZ 1884





1923-1930

(VICTORIA)

1909-1930











 $\Delta$ 

1931

INOX



1943



1950

VICTORIA T 1952

E L I N O X STAINLESS SWITZERLAND 1957



1950/1968

VICTORINOX SWITZERLAND STAINLESS ROSTFREI

#### 1952



1957



🔁 VICTORINOX

1996



VICTORINOX SWITZERLAND

#### 1968

VICTORINOX 1984

**H** VICTORINOX SWISS MADE 2007

### The Logos of the Victorinox Knives





until 2007

after 2008

- The founder of Victorinox, Karl Elsener, has created the first famous Multi-Tool, he registered this knife in Switzerland on June 12, 1897. The German manufacturers and Wenger have copied it about 10 years later.
- An original Victorinox Pocket Tool can be recognized by the Victorinox Cross and Shield which has remained unchanged since 1908 on the handle and the Victorinox stamp on the shank of the large blade.
- There is a gentleman's agreement between Victorinox and Wenger, where Victorinox uses the term «original» and Wenger, which also produces knives in Switzerland, the term «genuine».



- The Victorinox eagle emblem is our registered trademark since 1926.
- This emblem is composed of an oval, with an eagle and in the background the two Mythen mountains (the landmark of Schwyz).
- Etching on steak- and table knives.Relief on the handle of paring knives.

In 1908 the company founder, Karl Elsener, began to use the Christian name of his mother Victoria as the trademark.

In 1920 Charles Elsener, the eldest son of the company's founder, requested the Böhler steelworks to develop a stainless steel that can be hardened. The laboratory samples were then converted into knife blades in Ibach. After many tests the first stainless steel knives were produced in Ibach. The blades made from carbon steel were stamped VICTORIA while those made from stainless steel were added the word «inoxydable» beneath the trademark VICTORIA, later these two words were replaced by Victorinox.

**Something of interest:** In 1999 we received a picture of a 5<sup>th</sup> century tombstone from a Museum in Tunisia on which the word VICTOR INNOX can be read. According to the University of Zurich, the word VICTOR INNOX means «Victory without damage».







#### Numbering Code for «Swiss Army Knives»

No. 1.96 0.0         1.9773         1.96 1.9.71         No. 0.e1         Ob         Dode, raile/air (air cloner         Odd         Add         Gene           20         B         Image: Control of the stand of the st	<ol> <li>small size, 84 mm, 3<sup>1</sup>/<sub>4</sub>"</li> <li>large size, 91 mm, 3<sup>1</sup>/<sub>2</sub>"</li> <li>Economy, small size, 84 mm, 3<sup>1</sup>/<sub>4</sub>"</li> <li>Sets</li> <li>Economy, large size, 91 mm, 3<sup>1</sup>/<sub>2</sub>"</li> <li>Pliers Tools</li> </ol>		4 60 2 7 Swis 4 60 2 7 Swis 7 7 8 Swis 61 1-2 62 2 10 5 Swis 61 1-2 2 1ay	ss Flash ss Flash Flight ss Flash Laser 0.62 23. ss Flash Laser Flight ssic Range layers (without scissors), 2–4 springs yers (with scissors), 4 springs layers (with scissors), 6–8 springs	Choice of           without         wir           cross         cross           01         02         2           022         200         200           025         200         027         200           03         3         3         3	th oss Cell. or Nylon red with cross red blue 2 purple plum 5 peacock blue
78B K R L 9(n) = nailfile on the back96staghorn imitation79B K R L Xs = fine screwdriver V = pliers W = wood saw97tortoise-shell imitation78B K R L Xs = fine screwdriver W = wood saw98mother-of-pearl imitation	20B00021U2 $V(n)$ 223C3F326NO4M428NR5 $VF$ 630BK7W M is V31BK R f4 P8W M is F32BK R f4 P39W M is V F33CK7W M is V F33CK7W M is V F34C K XAbbreviations35B K R SB= small blade36B K R XC = combination tool38N K RG = magnifying glass + Phillips-screwdriver 1-240B PHex drive41B P R f4 P3K = corkscrew43C PL44C P X P R XP = Phillips-screwdriver 1-245B P R NP = nailfile46B P R NP = can opener + cap lifter47B P R XP = P Phillips-screwdriver 343C K GR = O + reamer44C K G XS = spike-key45B K R LN = metal saw / nailfile46B K R SF = fish scaler47B K R SF = fish scaler48C K G XS = spike-key49B K R L(n) = nailfile on the back44B K R L(n) = nailfile45B K R L(n) = nailfile46B K R L(n) = nailfile47B K R L XS = fine screwdriver48	<ul> <li>key ring</li> <li>tweezers + toothpick</li> <li>1 + 2</li> <li>3 + mini-screwdriver</li> <li>4 + ballpoint pen + pin</li> <li>5 + watch instead of tweezers</li> <li>Cell. blue with cross</li> <li>Cell. black with cross</li> <li>Cell. black with cross</li> <li>Cell. white with cross</li> <li>Cell. black mith cross</li> <li>Cell. black with cross</li> <li>Cell. black mith cross</li> <li>Cell. black mith cross</li> <li>Cell. black mith cross</li> <li>Cell. white with cross</li> <li>Genuine staghorn handles</li> <li>with Tamponprint «William Tell»</li> <li>Camouflage</li> <li>with Altimeter</li> <li>with Altimeter</li> <li>with highter SwissFlame</li> <li>limited distribution</li> <li>with translucent scales</li> </ul>	1       0       + c         3       0       + c         3       0       0       0         4       0       + c       0         5       0       0       0         1       2       - c       0         1       0       0       0         1       0       0       0         1       0       0       0         1       0       0       0         1       0       0       0         1       0       0       0         1       0       0       0         1       0       0       0         1       0       0       0         1       0       0       0         1       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0	ring erring	034       30.         04       4         046       40.         047       40.         05       50.         053       50.         057       50.         057       50.         082       80.         087       80.         081       81.         81.       81.         81.       81.         81.       80.         087       80.         81.       81.         81.       81.         81.       81.         81.       81.         81.       81.         81.       81.         81.       81.         81.       81.         81.       81.         81.       81.         81.       81.         82.       80.         83.       81.         83.       81.         80.       81.         81.       81.         82.       81.         83.       89.         94.       96.         97.       94.	<ul> <li>grey (anthracite) green</li> <li>retro green</li> <li>retro green</li> <li>pale green</li> <li>hot pink</li> <li>raspberry sherbert (lila)</li> <li>pale pink</li> <li>white</li> <li>yellow</li> <li>electric orange</li> <li>pale yellow</li> <li>yellow fluorescent</li> <li>(Fan Collections)</li> <li>etc.</li> <li>smooth Alox, red, with cross</li> <li>ribbed Alox, silver, with red emblem</li> <li>engine turned steel, design 3</li> <li>ribbed steel, with red emblem</li> <li>engine turned steel, assorted</li> <li>-52</li> <li>red Cell. with zodiac signs</li> <li>RocKnives</li> <li>rosewood</li> <li>genuine horn</li> <li>genuine staghorn</li> <li>real mother-of-pearl</li> <li>hardwood</li> <li>-76</li> <li>sterling silver</li> <li>gold plated</li> <li>with kinebar gold bar 1 gr.</li> <li>Camouflage</li> <li>staghorn imitation</li> <li>tortoise-shell imitation</li> </ul>

The above list, as far as the Cell. and Nylon handled knives are concerned, also includes all the special color shades we have made in the past for large orders of over 30'000 knives. These color shades are only available for repeat orders of about the same size.

Only parts shown in bold print are available ex stock.

#### Group descriptions preceding the article number

#### Descriptions of options following the article number

Pos.	Description			language key
0	Officer's-, Pocket- and Lockblade tools	А	Antibacterial	.1 English
1	Officer's-, grafting and pruning knives	А	Altimeter	.2 German
2	Pocket tools, Ecoline	В	PK-blister $B = 106 \times 160$ ,	.3 French
3	Pocket tools and grafting knives		B1 = 120 x 230	.4 Spanish
	Ecoline, SwissTool		HK-blister B=4 lang.	.5 Italian
4	Pocket knife pouches, chains		B1 = e + sp., B2 = g + f	.6 Chinese
	Boy Scout knives, Maglite, Cross pens	С	Cap crimper	.7 Japanese
5	Vegetable, household and butcher knives	D		.8 Arabic
6	Tools for industry and farming	E	Event	.80 Russian
7	Kitchen articles, Sharpening steels	F	Lighter SwissFlame	.81 Portuguese
8	Scissors	G	Gift box	.82 Polish
9	Displays I-VI and A-D	Н	Handle with hole for hanging	.83 Finnish
		J	Jubilee + Year date	.84 Danish
		L	Limited Edition	.85 Norwegian
A	Pocket knife parts	L	Leather strap, leather case	.86 Turkish
В	Pocket knife parts	L	Large (T-Shirts)	.87 Korean
С	Cellidor handels	Μ	Medium (size of handle)	.88 Dutch
D	Miscellaneous, formerly V		Money Clip)	.89 Swedish
E	Electromaterial	Μ	Military blade for one hand	.90 Czech
F			opening	.91 Hungarian
G		Ν	Nylon case	
Н	Wooden handles	Ρ	Picnic fork and spreader	
		Р	Poster	
J		R	Special manufacture, promotional	
K	Butcher knife blades, short tang		knives	
L	Butcher kinfe blades, long tang	RS	Rescue, Security	
M	Operating material	S	SB (self service)	
Ν	Standard parts, drawings	S	Small (T-Shirts)	
0		S	Stylus for PDA,	
P	Packaging		instead of ballpoint pen	
Q		Т	Translucent handles	
R	Raw materials	U	unpacked / bulk	
S	Handles: Alu, wood, steel, stag, pearl,	V	Voyager	
	etc.	W	wavy edge	
Т		XL	Extra large (T-Shirts)	
U		Y	Whistle	
V	VISA watches	Ζ	inch measurement with bits	
W	Tools			
X	Semi finished products (non Victorinox)			
Y	Inventory (machines, facilities)			
Z	Extra cost, die cost			
			R1 = metal inlay	e.g. 0.2503R1
			R2 = tamponprint	e.g. 2.2501R2 e.g. 2.2501.02R2
			R3 = stamping	e.g. 2.2501R3
			D4 – imprint on alov bandlo	0 a 0 6201 10R4

R4 = imprint on alox handle

R7 = nailfile engraving

R9 = knife body

R5 = etching on SwissTool handle

R21 = tamponprint + protective coating

R6 = etching on blade or nailfile

e.g. 0.6201.10R4

#### The Evolution of the VICTORINOX «Swiss Army Knife» 91 mm

1884 January 1, Karl Elsener starts his own business.

**1891** The Swiss army is supplied with the sturdv soldier's knife for the first time. The knife comprises a large blade, screwdriver, can opener and reamer.

**1897** June 12, official registration of the elegant «Officer's Knife» with an additional small blade and corkscrew developed by Karl Elsener.

1902 New models with additional wood saw. scissors, tweezers, toothpick and shackle,

1909 Metal Swiss cross inlaid on the red fiber handles.

1923 The Swiss army knife made from stainless steel.

**1937** Handles made from cellidor replace fiber handles.

1942 New screwdriver with bottle opener, nailfile and nail cleaner (on the back of the knife).

1946 New patented can opener.

**1951** Improved new patented can opener with small screwdriver, alox dividers replacing nickel silver dividers, new screwdriver with bottle opener, wire stripper and bender.

**1952** Phillips screwdriver forged with cut nailfile (in place of corkscrew), fish scaler with hook disgorger, metal saw and metal file with nailfile and nail cleaner.

1957 Tweezer grip made from aluminum (previously nickel silver).

**1961** New reamer with cutting edge, invisible rivets.

**1968** Keyring replaces shackle.

1973 Magnifying glass and Phillips screwdriver, small blade with pointed tip instead of the old shape.

1975 New scissor spring (V shaped).

1977 Small screwdriver (on the back of the knife).

**1978** Tweezer grip made from plastic.

**1980** Inlav made from stainless steel instead of nickel silver, new round Phillips screwdriver (up to now it had been forged).

**1983** Patented mini screwdriver stored within corkscrew.

1985 Ballpoint pen, small screwdriver (new shape), chisel, reamer with sewing eye, cap lifter with 90° lock.

**1986** Pliers with wire cutter, combination tool with: bottle opener, can opener, screwdriver and wire stripper (cans opened clockwise).

1987 Camouflage handles.

1990 Swiss watch in handle, new scissor spring with cam, scissors with guiding groove.

1991 Multi-purpose hook and pin, scissors riveted (previously screwed).

1992 Golfer blade, spatula, Phillips-screwdriver (round) new without slot.

1994 Mat nylon handles for EcoLine, corkscrew without decorating groove.

**1995** Wire crimping tool on pliers.

**1998** Multi-purpose hook also with nailfile.

**1999** Wrench and bit holder, translucent handles.

2000 Altimeter electronics.

2001 Voyager electronics, new handle for small tweezers, toothpick and ballpoint pen.

2002 Piezo lighter (until 2005), LED module plus new Phillips screwdriver.

2003 StayGlow (fluorescent handles).

2004 Plastic magnifying glass, blade shank 2,0 mm instead of 2,4 mm.

2005 Traveler electronics stainless, metal file ground, new stamping on blade shank.

### Explanations about our catalogue



VICTORINOX usually issues a fully revised catalogue every three years. During the intervening period, customers are provided with a corresponding A4-sized illustrated product brochure with price lists for innovations, which can be conveniently stored at the end of the catalogue for ready access.

The product numbers are listed in the catalogue in ascending order and are therefore easy to find

	Page	Item number	Number of items	Bestsellers
Pocket-tools	1-14 c	0.2300-3.0339	374	86
Complementary assortment	16–18 b	4.0262-4.4401	139	20
	Total		513	106
Household- and professional cutlery	22–38 a	5.0101-6.8713	541	145
Complementary assortment	41–47 b	7.6030-8.2116	302	60
	Total		843	205
	Combined	total	1356	311

The comprehensive product range and the general catalogue are aimed at specialist traders. The reason that the complementary assortment is so comprehensive is because VICTORINOX took over the purchasing cooperative (established 1913) of the Swiss cutlers' association in 1942 at the request of its members.

Because our total range of over 1300 products is far too comprehensive for the retailers, we have printed the product numbers and prices of **bestsellers** in bold print throughout the catalogue.

Each year VICTORINOX launches some new products while other products that have not sold well are deleted from the catalogue.

Faced with the desire for new products, there is the risk that sales people overlook good, tried-and-tested products. Unlike the clothing industry, for example, in our industry the investment costs for the production tools and machines are very high, making it difficult to fully amortize such costs if too many new products are launched. It is therefore in the interest of our customers and the job safety of our workforce to find a reasonable balance.

In 1968, Coricama, Italy's largest knife factory (650 employees) was offered for sale. The technical director informed us that the company was not doing well because the commercial director, who was also the owner of Coricama, wanted to fulfill all special wishes from customers, resulting in production runs that were too small and thus too expensive to produce rationally. Coricama no longer exists.

VICTORINOX products not only have to be practical and of high quality, but should also offer good value for money.

We must remain innovative but also undertake realistic cost-benefit analyses before every investment, providing us with an expense-return estimate.

The corporate philosophy of the successful and largest company in the world, General Electric, is: «Highest input, lowest possible office overheads, openness to new ideas, high guality and cost consciousness». This should also be our philosophy. In addition, modesty and commitment are also part of the VICTOR-INOX tradition. VICTORINOX receives over 100 suggestions and special requests each year, which we answer comprehensively, explaining where applicable why we cannot comply with the recommendation for technical or cost reasons. If we cannot fulfill a customer's wish, we feel compelled to explain and justify this in detail. This helps create a feeling of trust and understanding and avoids irritation.

Politeness costs nothing – but it is invaluable. The difference isn't always in what you say, it's how you say it. The director of an extremely successful American company explained: «Everybody thinks that there is a secret to our success but our formula is very simple: We just take care of every minor detail».

Mr. Helmut Maucher, head of Nestlé, writes, «We must realistically identify the value of informative advertising and emotional advertising in order to ultimately market a product successfully.

We don't want to make politically correct advertising, we want to sell as many products as possible.»

Because readers are interested in Victorinox products, editors are happy to pen editorial pieces, especially when innovations are launched. After publication of the article, as a rule, we gladly supply some free pocket knives to the employees of the magazines and newspapers, to express our gratitude for this free advertising.

There is no better person to promote sales than someone who is converted to the cause, for as the German saying goes, «it's easy to convert others if you're a convert yourself».

This is reinforced by the fact that sales and marketing staff use the company's products at home themselves.

### Part 1 – Pocket-Tools



The information provided on page A and 12 in the catalogue should be thoroughly studied by all sales personnel. In part B (tables) you will find the numbering codes and a list of further abbreviations as complementary information. Thanks to these numbering codes, our employees in the assembly and sales departments, recognize at a glance which tools are included in the respective item number.

#### Page 1 - «Swiss army knives» - small model

Previously we used to manufacture the large (91 mm) and the small (84 mm) «Swiss army knife» models with 1 to 4 layers (8 to 15 functions). Later on we expanded the large models to 2 to 8 layers (12 to 33 functions) and reduced the small models to 1 to 2 layers (5 to 12 functions).

the length of the closed Pocket knives	with VIC	TORINOX	WENGER
the useful Key fobs (Classic series)	2 ½"	58 mm	65 mm
the elegant pocket tools	3"	74 mm	75 mm
the small «Swiss Army Knives»	3 1/4"	84 mm	85 mm
the large «Swiss Army Knives»	3 ½"	91 mm	-
the pruning knives (gardener knives)	4"	100 mm	85 mm
the large Pocket-Tools with lock blades	4 ¾"	111 mm	120–126 mm

The size 65 mm was just right for combination with a nail clipper, 58 mm was too small, and 74 mm too large.

For publicity purposes the following slogans are used:

VICTORINOX «The original Swiss army knives» WENGER «The genuine Swiss army knives»

5

#### MY FIRST VICTORINOX – for the young beginner

Pocket knives are useful in many areas of life. Many children will first come into contact with a multifunctional tool that belongs to someone in their family – perhaps their mum or dad – and will want to try out a «grown-up one» for themselves.

To ensure their first encounter with a multitool is not too challenging, Swiss knife-maker Victorinox has developed «My First VICTORINOX», comprising useful tools with numerous functions. It has a short blade (5,4 cm), which does not have a pointed tip but is nevertheless very handy for day-to-day use. The combi-blade serves as a bottle opener, tin-opener, screwdriver, wire stripper and bender. Tweezers and a toothpick are accommodated in the handle. Also available with wood saw.

#### Pages 2 to 3 – The famous Classic series

These elegant pocket knives for ladies and gentlemen are at the same time very practical key-fobs and count amongst our best-sellers, particularly no. 0.6223. As from 2009 onwards the red LED's have been replaced by white LED's which produce a much brighter light. The number of handle-colors previously available has been reduced.

Until now the battery compartment was covered by a small cap that tended to fall away when changing the battery. Since 2008 it has been replaced by a rotating cap that is connected to the knife handle.

When using a pocket knife model with a ballpoint pen **the nailfile should always be opened before writing.** Thus this key fob becomes a handy ballpoint pen, the only writing instrument that you can fold to a small useful key fob.



This is practically a world's first in itself. What's more, built into the ballpoint pen are the following, a sharp blade, strong scissors, a nailfile with a screwdriver, and either tweezers or a toothpick: all these useful tools are packed into this compact 58 mm high-quality key fob! The pen has a gas-pressurized cartridge (order no. A6144.0) which is perfectly simple to replace when empty. Show your customers how to do it themselves! They will be amazed and will want to buy it. And with the Midnite Manager (order no. 0.6366) it is even possible to make important notes at night in complete darkness.

#### Page 4 – Elegant pocket knives 74/84 mm

No. 0.6540.16. Americans like to use this model as a purse by squeezing their dollar notes, once they have been folded, under the clip and carrying it loosely in their trouser pocket. The teeth of the nailfile included in model 0.6603 used to be cut in earlier days, since 2008 they are ground.

The multi-functional **golf tool** is of the highest quality, fits comfortably in the hand and weighs only 65 grams despite having ten efficient and functional tools.

The repair fork for one handed use is made of thin hardened stainless steel and easily pierces the ground without pushing down roots. With light pressure the tools, which swing out from the side, return to the inside of the knife, making the fork more comfortable to use.

The ball marker can also be quickly pushed out of the tool **with one hand** and directly planted in the green. To set a wooden tee in hard or fro-



zen ground, you need the tee punch to bore a hole. The point also serves to clean the grooves of the golf club. Golfers specially value the scissors and the comfortable nailfile on the rounded edge of the tee punch. Professional golfers have advised us against also including a ballpoint pen, in addition to the tweezers and toothpick, in our pocket knife models for golfers saying that small pencils are supplied at the entrances of the golf courses. In rainy weather the ink of the ballpoint pen tends to smear when noting the handicaps.

#### Page 5 – SwissCards

As of 2008 the rotary slide has been eliminated to improve the solidity of the card.

In 2009 the red LEDs on the SwissCard Lite will be replaced by white LEDs.

The small «Quattro» four-way screwdriver for small and medium-sized slotted and Phillips screws is **astonishingly** efficient.

We also produce the cost-effective «SwissCard Quattro» without the scissors, magnifying glass and LED for the promotional items market. This is not available in specialist trade shops, so that the public perception of the price of the SwissCard remains orientated to the «Classic» and «Lite» models.

The magnification of the magnifying glass has been optimally selected so that whole words are easily picked up in text that is too small to read with the naked eye.

# The SwissCard has the advantage that it fits into the credit-card slots in briefcases or wallets.

SwissCard Lite from VICTORINOX scooped the highest accolade for product design, the «best of the best» prize, at the 2004 red dot awards. The red dot design award is one of the best known competitions for international product design. Only the best products of the year are considered by the red dot design award jury in the hope of being awarded the coveted «red dot». The award is seen in the industry as a highly valued seal of quality and is a recognized label around the world. A total of 1,673 products from 32 different countries were submitted and assessed. In the end, the jury honored only 33 exhibits with the highest award, «the best of the best» title, making the success of the SwissCard Lite from Victorinox all the more significant. The SwissCard Lite will now also be included in the illustrious «Design Innovations Yearbook 2004» and will feature in one of the world's largest exhibitions of contemporary design in the red dot design museum. The museum is situated on the former «Zeche Zollverein» mining complex in Essen, which was named as a World Heritage Site by UNESCO in 2001.

Despite all these advantages the famous Classic models on pages 2 to 3 are considerably more practical and good value for money.



#### Page 7 – Pocket multi-tools with a large locking blade

The «Original Swiss army knife» is also very popular amongst craftsmen, although we have often received requests from them for an approx. 20 % larger pocket tool with a locking blade. The blade release via the slider on the rear shell of the handle is comfortable and easy to operate. The bestsellers in this series are the Picknicker, Rucksack and Outrider. The WorkChamp XL is aimed at the knife collector. Helmsman and Skipper - for wind and water adventures! It easily opens any sized shackle. The large lock-blade with wavy edge is ideal for cutting halyards, sheets, and hawsers. Also

included is a marline-spike, a sewing awl, a wire stripper, a Phillips screwdriver, a bottle opener with a large screwdriver and a can-opener with a small screwdriver. The Skipper also includes a corkscrew and pliers with a wire cutter and crimper. Its rough finish and ergonomic handle provide a sure grip when wet. Although 111 mm long it still only weighs 150 g. Marine blue and wind rose. Our tip: contact your local sailing and yachting club!



#### Page 6 – Robust models for armies and emergency services

This series began with the picnic knife, no. 0.8863, on page 7. The knives of the series on page 7 are practical, popular and have a proven track record.

However, we found them to be insufficiently robust and sturdy for use as army knives. For this reason we developed a knife for the Dutch army of the same shape and size but much stronger, with thicker rivets and blades, Linerlock for the blades and the powerful screwdriver. The large blade of the multi-tools on page 7 is now lockable but can be released via a practical slider.

Criminals who want to use the pocket knife as a weapon, purchase knives where the blade can be opened with one hand. They grasp the knife unobserved from the trouser pocket, open the blade unnoticed with one hand behind their own back so that they can stab unexpectedly in a split-second.

In view of the fact that the members of the firebrigade, the rescue services and the police, when in action, do not always have both hands free for opening the knife blade, we also supply the Rescue Tool with a one-hand blade («M» Military).

This blade can also be easily opened with protective gloves.

There are hundreds of different **pocket knives** with one blade only on the market. Calling the 400 different multi-function **pocket-tools** from Victorinox also «pocket knives» is however incorrect. The can opener, the corkscrew, bottle opener, wood saw, metal file, metal saw, the various screwdrivers, the scissors, the magnifying glass, the tweezers and toothpick are all

#### Page 6 - RescueTool

When seconds count!

The Victorinox RescueTool was developed and perfected during 5-years of collaboration with rescue- and safety services.

A functional window breaker, an effective, well tested windshield / windscreen saw and a practical seatbelt cutter are ready for use within

0.8623.MWN RescueTool contains the following parts

- and features:
- 1. large lock blade
- 2. Phillips-screwdriver
- 3. window breaker
- 4. strong screwdriver /
- crate opener with
- 5. cap lifter
- 6. wire stripper
- 7. reamer, punch
- 8. seatbelt cutter
- 9. kev rina
- 10. tweezers
- 11. toothpick
- 12. disc saw for
- shatterproof glass
- 13. luminescent handles
- 14. Nylon cord
- 15. Nylon pouch

0.8623.N RescueTool same knife as 0.8623.MWN but with normal blade (instead of one hand opening blade)



**Registered Design** 



not knives but pocket-tools. The blade is also a tool. They are elegant yet functional and have often saved lives in emergencies. A small booklet exists entitled «A friend in need» containing a collection of true stories on this subject. The model adapted to the personal requirements and wishes is a source of joy, is useful and indispensable as a daily companion. They have been thought out and created to be useful to mankind.

seconds! The tool can be used with and without aloves.

When opened, the one-hand blade and powerful screw-driver (crate opener) are automatically locked in place through the Liner Lock. Parts 3 and 12 can be replaced when worn.

#### Page 9 to 10 – «Swiss Army Knives», 91mm

The Spartan 1.3603 is the successor of the first «officer's knife» of 1897. The Spartan, Climber, Huntsman, Explorer and SwissChamp have been bestsellers of the Swiss Army Knife series. In future the Mountaineer may succeed the Huntsman, as this model is the same size and weight yet it contains three additional functions and the price has been reduced as of 2008. Previously the metal file was cut, casehardened and hard-chrome plated. Now it is ground from hardened stainless steel.

The Compact has only been around since 1986. It was intended as a lightweight pocket knife for business people and office workers with as many functions as possible (15). The multi-purpose hook was only counted as one function despite the fact that it can be used to fit bicycle chains, open sardine tins, carry parcels using the knife handle instead of the string and to pull tent pegs out of the ground when camping. Until 2007 this model was also supplied with an oval-shaped timepiece.

Each Voyager comes with instructions for use. When setting the time you need to make sure that you only press the button until the up and down arrows appear. If you press for longer, the time display is switched to 24 or 2 x 12 hour after 10 seconds.

When setting the alarm time, on the other hand, the alarm clock switches on and off after four seconds. To change the alarm time you need to hold «ON» again for four seconds, and the up and down arrows for correcting the alarm time appear.

The mini screwdriver (stored in the corkscrew) for small screws in glasses is used to open the battery compartment. The curved side of the battery faces upwards.

The magnification of the magnifying glass on the Explorer and SwissChamp has been optimally selected so that whole words are easily picked up in text that is too small to read with the naked eye.

#### Page 11 – «SwissChamp» and CyberTool

The philosophy of VICTORINOX is expressed in the company motto: «We want people all around the world to be able to enjoy our practical, economical, yet quality products.» The Swiss officer's knife from VICTORINOX has long been a classic. Whether in extraordinary situations or normal everyday circumstances, it has become known world-wide as the «Swiss army knife», thanks to its ease of use and the proverbial reliability. It is no surprise that something which embodies Swiss quality so well has become one of the favorite gifts of all time. The flagship of the series is the «SwissChamp» with 33 features. It consists of 64 individual parts, weighs only 185 grams, and fits easily into hand. More than 450 steps are required in its manufacture.



....it serves as a compact tool box. Although the SwissChamp is not for the pocket or key chain (in contrast to many smaller VICTORI-NOX knives) it puts a veritable tool box in your hand. At home, for hobbies, when camping, in the car and at the workplace it will guickly become an indispensable and a ready helper. ....it is known worldwide for its top quality. Of course it is not just the number of functions packed into the SwissChamp which make it so valued, it is the quality. VICTORINOX pays attention to every detail, from the selection of materials to the final inspection. Each kind of tool has been hardened in a different way to stand up to the use for which it is intended. Such care is unmatched!

....it is backed up by a generous guarantee. Should anything ever go wrong with your VIC-TORINOX knife, then we will replace or repair it at no cost. To us, quality means that customer protection against defects in workmanship or material in our products never expires.

....it is unsurpassed in its design. Granted, that tastes differ in the applied arts. Yet, experts are

in agreement: the simple elegance of the SwissChamp has registered with international experts. The New York Museum of Modern Art, and the State Museum of Applied Art in Munich, have each on their own initiative selected it for inclusion in their collections of excellence in design.

We have so far sold over 47,000 units of the collectors model No. 1 .6795.XLT, much to our surprise.

The Swiss **CyberTools** with 29, 34 or 41 functions was developed for electronic engineers and for IT-professionals. A particularly large amount of time and money was invested into the development and perfection of this tool.

You could almost think it is descended from the iMac but VICTORINOX enters a new dimension with the **CyberTool.** Technically forward-minded people of the IT era will never be disappointed by this universal electronic multi-tool. The transparent case exposes its clever construction and identifies its maker as VICTOR-INOX. Inside are 34 amazing functions (order no. 1.7725.T).

#### Page 11 a – Lite products and sets

The Lite model group contains the best LEDs currently available. They shine extremely and for a long time with minimum battery consumption. Apply pressure to the slider switch to make them flash. For constant light, push the switch backwards, but don't forget to switch the light off after use. These models also have the advantage that they contain both a Phillips screwdriver and a corkscrew, whilst the non-Lite models or those without magnifying glass have either a corkscrew or a Phillips screwdriver. The mini-screwdriver positioned in the corkscrew for small spectacle screws in glasses can also be used to open the battery compartments. The Traveller Lite costs 50 % more than the Voyager Lite because it provides 10 instead of just 5 digital displays, including an expensive, high quality Altimeter, which nevertheless costs considerably less than conventional altimeters with the same precision.

The new **Traveller Lite** combines tried-andtested functions from existing multi-tools with the very latest electronics. The altimeter and thermometer functions are taken from the Victorinox altimeter, while the white LED light and the clock with alarm and timer come from the Voyager Lite. These functions have now been combined and complemented with a barometer and a walking/driving time calculator to create the ideal companion, that's both compact and multi-functional, for all outdoor activities, in particular for hiking.

With its 27 finely-tuned functions, the Traveller Lite will take you anywhere.



#### Page 12 – Replacement parts case

The Victorinox replacement parts case is **a must** for every professional storekeeper. In order to maintain Victorinox's good image and high quality it is vital that we offer the customer the best possible service at the POS. In order for us to help you in this, you can receive replacement parts case No. 4.0571 and No. 4.0581 for a quarter of the retail prices listed on page 12 of the catalogue.

#### Page 13 – Pruning and grafting knives

The finish and the final inspection of these knives are done on a more detailed basis than with the Ecoline on page 14. The hooked grafting knives are also used in the floor-laying industry. The rose- and grape shears (cut-and-pick with one hand) are very practical.

#### Page 14 – EcoLine

The Ecoline-pocket knives are slightly lowerpriced because they **do not carry the metallic VICTORINOX logo and the final inspection is less detailed.** The handles are made of polyamide (nylon) the same material as is used for the large lock-blade knives and are therefore more hard-wearing than the delicate cellidorhandles.

#### Page 14b – SwissTool and SwissTool Spirit

Without our prior knowledge, our SwissTool was tested and reviewed together with competing brands by 18 specialist magazines. Our model came out as the winner in 17 of the tests, in one magazine gaining second place behind the Leatherman Wave in the overall ranking. We created the elegant SwissTool Spirit in response to market demands for an additional, lighter model.

The «Spirit» is more ergonomic and elegant, and weighs just 205 g compared to 285 g for the regular SwissTool.



People are so familiar with the standard sharp blades with the pointed tip that they often lose sight of the benefits of the Spirit blade:

- 1. The front 3/4 of the blade has a wavy edge which remains sharp for much longer and is particularly useful at picnics for cutting meat or putting filling to sandwiches.
- 2. The latter 1/4 of the blade has the best leverage and can therefore be used to cut wood.
- 3. Because the blade has no point, the risk of accidents occuring is reduced, without any corresponding disadvantages in its usage.
- 4. Authorities are less likely to regard this tool as an offensive weapon.

Ratchet for the SwissTool Spirit

 The development of this small ratchet tool represents a masterpiece from the VICTOR-INOX engineers with regard to miniaturization, solidity and functionality. At present there is no comparable ratchet in this size on the market. The scissors on the SwissTool are intended for cutting cloth, paper and fingernails, while those included in the «Spirit» offer the additional possibilities of cutting plastic and thin metal foils. If you compare the «Spirit» with the roughly 200 different multi-tools which are produced worldwide, mainly in the Far East, you will notice that ours is much more versatile, more compact, more elegant, more practical and of higher quality and precision than the others.

#### Page 14c – SwissTool

In around 1994, SABI, our USA representative, requested a pliers-type multi-tool from us. We declined as we did not want to copy the inventors of this product idea. However, as increasing numbers of manufacturers were starting to produce pliers-type multi-tools, and SABI pressed us more and more, we made up some prototypes similar to multi-tool no. 176 from WEN-GER 2007. SABI rejected our prototypes. They wanted a tool that had more in common with the Leatherman model and other pliers-type multi-tools. We then developed a similar model which functioned differently and contained a number of patented improvements, which did not require the pliers to be opened in order to access the other tools. SABI filed for a USA patent for our model on October 29, 1996. When experts all over the world refer to the VICTORINOX SwissTool as the «best of the best», «a bullseye», «the Rolls Royce of all tools», or a «cult tool», that's not just by chance. Enthusiastic press reports are sent to us from all parts of the globe. Even in tough tests carried out without our knowledge on a dozen different multi-tools, it is always the VICTORINOX SwissTool that comes out the winner. «Outdoor» magazine enthuses that all tools (with 23 functions) lock automatically after they have been opened, the ends of the handles are rounded so you can grip firmly with the pliers, and the 23 cm long ruler can be placed completely flat, which is not the case with any other multi-tool. The technical journal «IWM» notes with an eye for detail that on the SwissTool the edges are folded over and therefore never cut you while the tool is being used, all the tools are accessible from the outside, so it is not necessary to open the SwissTool first to be able to get at them, and each tool has its own spring. A «BM» test report comments: «Every

tool opens like a pocket knife and automatically locks when open». No wonder the renowned American outdoor magazine «Field & Streams» chose to award its highly esteemed annual «Best of the Best» prize to the VICTORINOX SwissTool. And the jury of the international weapons magazine «Visier» unanimously elected the SwissTool its «Bullseye 98».



When the Central Switzerland Chamber of Commerce awards its Innovation Prize to a company more than a century old, it is highly significant. Obviously the 1000-strong VICTOR-INOX team with its history and tradition is constantly setting new records for innovation. The acclamation states clearly: «The Innovation Prize is awarded to VICTORINOX for its company policy which has proved itself over decades, for its continuous realignment to new markets and products, for its ecological manufacturing philosophy, and for its systematic maintenance of employment stability even during years of recession.» Such a comprehensive definition of innovation does honor, not only to our company, but also to the prize givers. They award their «Innovation Oscar» not simply for a single creative effort, but for the visionary spirit of a company which extends from product development through manufacturing to marketing.

#### Pages 16 and 16a – Pouches for pocket tools

The best-selling belt pouches are also available with a stainless-steel rotating belt clip. The case can be rotated from a vertical to horizontal position or upwards by 45 degrees to the left or right and secured in position.

Pouch no. 4.0515 is for the classic series with LED. The LED can be switched on and off, even when the knife is in the pouch. With pouches no. 4.0516 and 4.0517 for the Voyager and Traveller Lite, switching functions can be

performed by pressing the emblem and the digital display can be viewed through the pouch window.

#### Page 17 – Multiclips

Multiclips no. 4.1858 to 4.1860 are made in Switzerland and have a proven track record. The latter is particularly practical since the key ring remains safely stowed in the trouser pokket. The chain is long enough to enable you to open and lock the door without removing the key ring from the chain. The knife hangs on the short chain on the snap hook outside the trousers or in the top of the trouser pocket and not below with the keys.

Neck band no. 4.1879 has a safety clasp that opens in the event of an emergency.

#### Page 18 – Sport and camping

The Grillfork No 4.2460 is new in the catalogue and very practical in its application.

#### Multi-tool oil

When cutting or peeling fruit, fruit juice often runs down between the blades, sticking them together once it has dried. Open and close the blades in warm water several times and the tools can be easily moved again. When they have dried it would be good, although not necessary, to apply a small drop of oil between the blade or tool shank and the spring. On the locking mechanism sometimes a drop of this excellent gliding oil could be helpful from time to time.



The main characteristics of this multi-purpose oil are:

- neutral smell and taste
- long lifetime
- excellent lubricant properties
- good protection against corrosion
- food-appropriate

This high-quality oil was tested in group 21 CFR 178.3570 according to FDA (Food and Drug Administration) guidelines.

### Part 2 – Cutlery

#### Page 20

Please read this page carefully and remember the significance of the 4th and 5th digit of the product number. The blade length follows the point in the 5-digit product number.

#### Page 22 – Paring knives

The economy peelers were manufactured in Ibach until 1958 and after that by the company Minel in Nogent, France. Today: SAS Nogent \*\*\* The paring knives with wooden handles have become expensive due to the large amount of manual work they entail. They are also not dishwasher-proof. The paring knives with rosewood are supplied in individual plastic self-service sheats, and those with bubinga handles in packs of six without blade protection.

Today 99.9 % of paring knives are produced with dishwasher-proof polypropylene handles in black, red or blue. Numbers 5.04, 5.06, 5.07 can be supplied with a normal **or** wavy edge, numbers 5.03 and the shaping knife 5.05 are only available with a normal edge, and the tomato and sausage knives 5.08 only with a wavy edge. The paring knives 5.03 to 5.09 are supplied in boxes of 20 with a safe blade protection. For cost reasons, the brand is printed in relief on the handle and in black on the blade protection sheath. On numbers 5.07 and 5.08 the handles are somewhat larger and the brand is etched on the blade.

The tried-and-tested and legally registered blade protection means that the paring knives are ideal for sale in display trays such as no. 9.7005.2. Refilling the display trays takes less time than hanging up each individual blister pack. The paring knives could also be presented for sale in the opened boxes of 20. In smaller specialist shops where space is at a premium, the sales stand 9.7007 could be used. As of 2008, the paring knives will also be available with the SwissClassic handles on page 38 to 38a (group 6: special knives and tools for industry and new shapes for the household). As retailers generally do not want to sell both series of paring knives, two different household-knife leaflets are available: one with the traditional standard models and the other with the SwissClassic handles.

The «professional's choice» leaflet and the household-knife leaflet complement each other and should be presented alongside one another in the same brochure stand.

### Pages 23 to 24 – Carving cutlery and kitchen sets

The traditional carving cutlery, kitchen sets and knife blocks have dishwasher-proof polypropylene handles and are much cheaper than the large household knives of the SwissClassic range with FIBROX handles.

#### Page 24a – Blistered household knives

Packaging Award for our kitchen knives «Technically well thought out, the perfect solution from every aspect, equally attentive to the packaging functions of protection, logistics and marketing, as well as to economics and ecology». That was the verdict of the jury of the Swiss Packaging Institute, SVI, in June 1997, on the new blister pack of our kitchen knives for which they awarded the Swiss Star, the highest award for «exemplary packaging». – Yet another good reason to include our kitchen knives in your range!



#### Pages 25 to 25a – Table sets

Because the spoon and fork handles do not match the SwissClassic handles, the traditional handles have been retained for the steak and table knives in the sets.

Experience shows that people who have both all-metal table sets and sets with plastic handles will always prefer the latter for everyday use.

### Pages 26 to 27 – Household and kitchen knives

Until 1974 all our household knives had rosewood or bubinga wood handles. We sourced rosewood logs from India and had them sawn down to boards in Swiss sawing mills. The bubinga wood came from Africa. Our new factory, built in 1969, was fully geared for woodenhandle production, with a large sawdust collector connected directly to the heating system. Between 1974 and 1980 we converted to pla-

stic handles. Today household knives 5.16 to 5.19, 5.38, forks 5.21 and spatulas 5.26 and 5.27 are still only produced from polypropylene for cost reasons.

At that time we sandblasted the surface of the butcher's knife handles to improve their nonslip properties. We asked our plastic suppliers to produce a plastic for our handles that had the best possible non-slip properties. Since 1987 all butcher's knives and kitchen knives no. 5.20 have had non-slip FIBROX handles. To round off the FIBROX range for chefs, we had to produce a second bread knife, no. 5.2533.21.

The range of knives with rosewood handles is slowly shrinking. Butchers are required to only use plastic handles that can be sterilized. Hotel chefs, on the other hand, prefer rosewood handles as these are less sensitive if they are accidentally placed on a steel hotplate.

The universal knives (pastry knives) 5.2930.26 and 5.2933.26 are important bestsellers.

#### Page 28 – Special knives for the kitchen

The vegetable and shaping knives 5.30 to 5.31 are the same as on page 22 but with larger handles for the chefs.

The fiber insert inside the leather sheath 4.0898 prevents the leather from being pierced.

#### Page 29 – Slicing knife

5.4120.30 and 5.4623.30 with flexible blades are the most popular knives for cutting salmon.

#### Pages 30 a and b

The chef's cases are fiber cases with aluminum frames produced in Switzerland and are lockable. The inlays are also removable and can be washed in the same way as the cases. The small chef's cases for apprentices no. 5.4913 are also available in a second inexpensive plastic version, non-lockable (no. 5.4903). The middle section can be easily removed. The base is subdivided into three practical sections in which various small tools or implements can be stored.

The **empty** cases 5.4903.0 are approx. four times less expensive than the empty Swiss quality cases 5.4913.

The cutlery roll bags are better sellers than the knife bags. Both enable the professional to store his or her individual knives.

#### Pages 32 to 34 – Butcher's knives

These knives are mainly sold via purchasing cooperatives and wholesalers.

Thanks to their quality, the VICTORINOX knives with the black FIBROX handles are well liked in the butchers' trade and the meat industry around the world.

Knives with the attractive rosewood handles are now only bought by enthusiasts.

In the special leaflet «first class» there are listed the model numbers that are available also with yellow, red or blue Fibrox-handles.

- the blade-shape 5.56 has been produced for the French and Belgian markets
- the rosewood handles 5.6006, 5.6106, 5.6406, 5.6606, 5.7200, 5.7300 and 5.7800 for the USA as well as knives 5.6103, 5.3763, 5.6603, 5.7203, 5.7303, 5.7803, 5.7903
- the butcher knife models 5.7100 just for the city of London
- the butcher knife models 5.81, 5.82, 5.83, 5.84 just for Italy
- the butcher knife models 5.75, 5.76 for Northern Germany and the Scandinavian markets

The 19 knives of these latter two groups have no longer been listed in our catalogue since 2000. The butcher knives are supplied with individual blade protection and in cardboard boxes containing 6 pieces.

### Page 36 – Special knives for dairies, the paper- and cable industry

Until 1997 the cheese knives were only available with rosewood handles.

#### Page 37 – Tools for gardeners and farriers

Until 1997 the hoof knives were made of carbon steel and only since then of stainless steel.

#### Page 38, 38a – Household knives «Swiss Classic»

Not all the retailers have enough space to carry the series «SwissClassic» as well as the traditional household knives on pages 22–26. For this reason we have printed two different leaflets for household knives:

- 1. «The quality knives for the household, standard models»
- 2. «SwissClassic, the quality knives for the household»

For the conventional household one of the leaflets is quite sufficient.

In countries where the specialist trade still has a strong market position (e.g. Switzerland and Germany) we have, on a trial basis, reserved the «SwissClassic» series (leaflet 2) for specialized traders and the standard models (leaflet 1) for the large scale distributors.

For the **professional cook** there is a larger selection of special kitchen knives and tools available.

Therefore one of the two household knife leaflets should always be placed alongside the leaflet entitled «the professional's choice», in the leaflet holder no. 9.6045 since these leaflets complement each other.

The **paring knives** on pages 22 and 38 are very competitive and offer a unique price-performance ratio.

The **household knives** with the conventional polypropylene handles illustrated on the catalogue pages 23 to 26 are lower-priced than the «Classic series» with the expensive Fibrox handles and the attractive gift boxes shown on page 38a.

### Page 41 – Complementary assortment for the kitchen

Peelers

- 7.6073 very handy and sharp
- 7.6074 practical, peelings do not stick to the peeler but drop in the readily available dustbin
- 7.6075 microdenting, especially suitable for tomatoes, kiwi and asparagus

### Page 42 – Complementary assortment for the kitchen

- Poultry shears 7.6343 stainless, handy, light
- Universal kitchen scissors with micro-denting no. 7.6363 are well liked in the kitchen and household.

### Page 43 – Complementary assortment for the kitchen and household

Corkscrew

 This practical Swiss product allows you to uncork wine bottles without much energy. The advantage of this self-opening item lies in the careful removal of the cork preventing its tearing off. Another user-friendly feature is the foil cutter which is integrated in the product.

### Page 43a – Forged chef's knives (German shape)

The forged chefs knives illustrated on the catalogue pages 43a and b are manufactured in Germany and partly in France. Here in Ibach we do control of the quality and the finish, the blade etching and the sharpening of the cutting edge.

With these forged knives the text within our oval trade mark showing the eagle and the Mythen mountains reads «Victorinox Quality Controlled» in contrast with all our household and professional knives that are manufactured from A to Z here in our factory in Ibach where the etching reads «Made in Switzerland».

#### Seite 43b – «Grand Maître» – Forged knives for the well-equipped kitchen

The Victorinox master cutlers have applied their unique ingenuity and techniques to design the highest quality, forged cutlery line. This fine cutlery is hot-drop hand forged and ice tempered by master forgers in Solingen, Germany exclusively for Victorinox. It is then shipped to Victorinox in Ibach, Switzerland for application of their famous proprietary sharp edges and rigid quality control finishing.

The result is a beautifully balanced, perfectly weighted full tang construction, an intuitively engineered comfortable handle, a high carbon, non staining, high polished forged steel blade with an edge that retains its razor sharpness. Because a single knife cannot do every job, Victorinox supplies a range of tools to perfectly meet every requirement. The same comment applies to the German-type knives on page 43a. For preparing and cutting small vegetables, a short, rigid blade is required. For cutting bread and tomatoes or carving a roast a serrated knife is the recommended tool. For effortless slicing, kitchen professionals need a knife with a normal straight edge, and a large kitchen knife is a useful tool not just for cutting, but also for finely chopping herbs and onions. Kitchen knives and Santoku knives are truly multifunctional tools and invaluable kitchen aids. The new range consists of twelve knives and a carving fork:

- Paring knife 9 cm, Art. No. 7.7203.09G
   Small handy knife for fine chopping, preparation and decorative cutting of fruit and vegetables.
- Steak knife 12 cm, art. no. 7.7203.12G
   Excellent all-purpose table knife.
- Carving knife 15 cm, art. no. 7.7203.15G and carving knife 20 cm, 7.7203.20G:
   For a smooth, clean cut. No defibration. Ideal for roast and raw meat.
- Fish filleting knife 20 cm, art. no. 7.7213.20G
   The flexible blade of this knife ensures waferthin filleting of fish and meat. The thin, highly flexible blade allows very accurate cuts.
- Ham knife 26 cm, art. no. 7.7223.26G
   For cutting ham, raw or cooked. Air cushions between the ham joint and the blade prevent the meat from sticking to the blade.
- Boning knife 15 cm, art. no. 7.7303.15G
   For removing bones and skinning meat or poultry. Tendons and fat can be easily removed.
- Santoku knife, 17 cm, art. no. 7.7303.17G, Santoku knife with granton (scalloped) edge, 17 cm, art. no. 7.7323.17G
- Perfectly balanced knife. A great kitchen allrounder.

Kitchen knife, art. no. 7.7403.20G, Kitchen knife, art. no. 7.7403.25G

Knife for cutting raw meat, fish, fruit and vegetables and for mincing and chopping.

 Bread knife, art. no. 7.7433.23G
 Knife with regular serrations ideal for cutting and slicing food with firm rinds or hard crusts, for example bread, tomatoes or pork rind.

Carving fork, art. no. 7.7233.15G
 Holds the material being cut (joint of meat etc.) in the correct position.
 The arrangement of the prongs ensures that

the material being cut is not damaged.

## Page 44 – Sharpening steels and knife sharpeners

The sharpening steels are used by butchers and chefs.

The kitchen steel diamond, no. 7.8327, stands out with its excellent adhesion of the coating, the firm grip and the outstanding sharpening ability.

For the household, the best solution is the VIC-TORINOX-knife sharpener no. 7.8715. The directions for use are printed on the reverse side of the cardboard hanger.



### Page 44a – Cut resistant gloves

VICTORINOX offers a range of protective gloves of different sizes and manufacture. With increasingly strict safety and hygiene regulations, demand is increasing for suitable tools such as the protective gloves from VICTORI-NOX. Originally, these types of products were mainly used in slaughterhouses, but are now being used increasingly in large kitchens and food processing facilities.

### Pages 46 to 46a – Stainless steel scissors with plastic handles

The scissors on page 46 have been manufactured with special care. They have been treated to a third sharpening process rendering the two blades thinner towards the tip. The anchoring between the blades and the handles is more

### **Technical Informations**

solid than with the Economic-series illustrated on page 46a, although the latter, on the other hand, is considerably better value for money. The steel quality of both series is top-class, the screwing is self-impedingly adjustable which makes it possible to adapt the smooth running to each user's feelings.

#### Page 47a – Manicure sets «Rubis»

Tweezers and cuticle scissors of top quality, Swiss made

#### Page 47b - Cuticle scissors, nail pincers, nail clippers

8.255.C Nail clipper with very smooth cut and optimal nailfile, very good value for money.

#### Page 48

We act as wholesalers of all the Felco products in Switzerland. In other countries FELCO have their own representations.

#### **Final Inspection**

- Non-conforming products are: - identified
- segregated
- repaired or exchanged

#### Process control

- Identifying and recording - Initiating corrective
- action
- Optimization
- Verifying effectiveness
- Controlling
- Requirements: tolerances (± 0.02mm), Hardness, finish, function

#### Incoming material

- lab testing
- Spectral analysis Metallography
- Corrosion resistance
- Fatigue test
- Cutting test

#### Inspection plan

Entry control

- Measuring and function
- check
- Statistically documented
- Supplier evaluation





semi-fin. products

#### The stainless steel for VICTORINOX knives

Spoons, forks and metal goods like jugs, sinks and metal covers – all are made from highly alloyed, non-magnetic 18/8 or 18/10 chrome nickel steels. These steels contain 18% chrome and 8% to 10% nickel. They are highly resistant to corrosion that can be caused by cooking salt from leftover food and regenerating salt. These steels are quite bright and silver in color.

An alloy with a carbon content of 0.1 % and 13% chrome is considerably cheaper. It cannot be hardened either but it is magnetic, and its color is slightly darker. The relatively low proportion of chrome limits corrosion resistance, for example in atmospheric conditions or watery substances, so these steels are graded as «low-corrosion».

Knife blades used to be made of hardenable carbon steel which was not resistant to rust. Because of this, hotels used special knifecleaning machines and polishing paste to give the knife blades a shiny appearance. To save this time-consuming task the surface of the knife blades was chrome-plated.

#### Pioneering feat from Victorinox

In 1920, Carl Elsener, the eldest son of the company's founder, urged a steel mill to develop stainless steel that could be hardened. Following numerous attempts he produced the first stainless steel knives in Ibach. As the initial results did not correspond to his ideas, he made great efforts in the years that followed to further improve the quality of stainless steel knives. The quality of a knife doesn't just depend on the correct alloy; it also depends on the precise hardening and annealing temperature. In 1931 the current ABB received the order to set up the first fully electric steel hardening plant in Ibach.



From then on the butchers' knives from Victorinox gained an excellent reputation, firstly in Switzerland, then in France and the USA and later worldwide.

The effects of alloy components

Hardening makes knives hard, elastic and provides them with the edge-holding ability. The more carbon the steel contains, the harder and sharper it can be made during the hardening process, but the less resistant it will be to rusting. Conversely less carbon makes the rust resistance better but the edge-holding ability worse. Steel becomes stainless when it is alloyed with at least 12 % chrome, which must be dissolved in the basic matrix. A protective «passive» surface layer of chromium oxide prevents corrosion, for example as caused by moisture. If the steel has a higher carbon content the insufficient rust resistance can be improved by increasing the molybdenum part of the alloy. Higher chromium content also provides better corrosion resistance but reduces the hardness of the steel, while molybdenum makes it harder. Knife blades made of chrome nickel steel would be extremely resistant to rust and acids, but would be easily bent and quickly become blunt.

#### Hardening

Martensitic stainless steels exhibit good corrosion resistance and perform well enough in everyday use. But to achieve optimum cutting power and enough corrosion resistance, it is important for the steel to be hardened properly. During this heat treatment the steel is heated from 1020° C (1868° F) to 1060° C (1940° F) in a protective gas atmosphere. The hardening temperature depends on the quality of the steel and must be observed precisely. After a holding time of five to ten minutes, the parts are cooled as quickly as possible in protective gas.



#### Annealing

Because the hardened steel is brittle and inflexible, it then needs to be annealed. During this additional process the steel is heated again for two to three hours at 160°C (320°F) to 250°C (482°F) before being allowed to cool slowly. This removes most of the tension from the steel and gives it the desired elasticity and toughness. The hardness of the steel is tested using a Rockwell testing device. After hardening and annealing, the blades have a hardness of 56 HRC. In principle, the greater the hardness the better the edge-holding ability of the steel. But this also depends on the particular geometry of the blade.

As the Rockwell hardness increases the steel also becomes more brittle and prone to fracturing.

#### Grinding, polishing, sharpening

After the hardening process the surface is machined. In the knife industry this machining process is known as grinding. The process requires plenty of water for cooling to prevent excessive temperatures. The overheating provokes changes in the structure of the steel leading to a reduction of the rust-resistance, hardness and edge-holding ability. (If regrinding work is required later on and the blade is overheated in some places during the regrinding process, there is an expansion of the steel only in these spots. During the cooling off and reverse expansion process, cracks will develop at these overheated spots which can lead to breakage of the blade during use.)

The surfaces are then finely polished. This requires a homogeneous microstructure and very high degree of purity. Finally, the cutting edge of the blade is sharpened to give the cutting tool its sharpness and functionality.



Sharpening is performed on either a sharpening stone or a polishing wheel. The cutting angle is checked using a laser.

The outstanding precision of modern automated machinery makes it possible to produce very high-quality knives at an affordable price.

#### Victorinox alloys for knife blades

We use a stainless special knife steel alloyed with chromium and molybdenum to make blades for pocket tools and household knives.

StandardCCrMoV1.41100.48–0.6013.0–15.00.50–0.800.15for other Victorinox knives1.40340.43–0.5012.5–14.5

The influence of the key alloy components is summarized below:

#### Carbon (C)

Carbon has the most significant effect on the properties of a steel alloy. The carbon content is between 0.3 % and 1.0 %; it determines the hardness and tensile strength of the steel but reduces corrosion resistance. The higher the carbon content, the greater the achievable hardness (rigidity). However, toughness is reduced and the steel becomes brittle.

#### Chromium (Cr)

The chromium content is between 12 % and 17 %. This is the main alloy component of martensitic stainless steel. It gives the steel its corrosion resistance. Chromium is a carbide former. Its carbides increase edge-holding ability and wear resistance.

#### Molybdenum (Mo)

The molybdenum content is between 0.2 % and 1 %. Molybdenum is an important element which helps to maintain the corrosion resistance despite a higher carbon content. It improves the edge-holding ability of steel designed for use in cutting tools. Molybdenum also promotes the formation of fine grains, which has a positive effect on the cutting characteristics. **Vanadium (V)** 

Vanadium is added to steel for special purposes. It can be added to martensitic molybdenum steel in small quantities. It makes for a finer grain, greater edge-holding ability and toughness. All material is tested in accordance with inspection certificate 3.1 for compliance with to SN EN 10204. All specifications and guidelines comply with the requirements of standard SN EN ISO 8442-1.

#### **Stainless**

Items that are said to be «stainless» (or «rustfree») feature high-alloy steel. This steel is used to manufacture products that are highly resistant to corrosion and therefore rust much less than non-alloyed or low alloyed steel.

There are conditions attached to the terms «rust-free», «stainless» and «inox». Permanent dampness, high salt content in the air or water and acids in food (e.g. in mustard or horseradish) can all cause corrosion.

### What should you look out for when buying household knives?

Conically ground, crosswise and lengthwise When pressure is applied at the side, the force is distributed along the entire length of the blade, creating an even arc shape. This reduces the risk of excessive bending and breakage. You will benefit from good cutting characteristics and balanced material load.



Manufacture: Made from soft annealed knife steel, hardened, and conically ground lengthwise and crosswise. Hardness: 56 HRC

#### From flat strip steel (cheap)

When pressure is applied at the side, the blade bends only slightly towards the tip, but noticeably at the handle, where it increases the risk of excessive bending and breakage.



**Manufacture:** Punched from hard, flat strip steel. **Cheap** to manufacture because there is no hardening, lengthwise and crosswise grinding and lengthwise polishing. **Hardness:** 46–48 HRC Example of an exploded assembly drawing of a pocket knife, size 91 mm closed length CyberTool Lite 1.7925.T



#### The notch between the blade and the shank

This creates a gap that acts as a run-out zone for the grinding disk during production.



#### Metal files

As with almost all metal files, the cut of Victorinox metal files was created on a file cutting machine with a chisel. Case-hardening steel is used for thinner files. The hardening process used on this steel makes its surface very hard while its core remains soft, thus helping to prevent breakage.

As case-hardening steel is not stainless, Victorinox files needed to be hard-chrome plated. Unfortunately, this process slightly reduces the sharpness of the teeth.

Made from	Case-harde- ning steel	Stainless steel
Officers' Knife	1952-2005	from 2006
SwissTool	1998–2005	from 2005
SwissTool Spirit		from 2004
Lock-blade knives	1998–2007	from 2008
0.6600 and 0.6603	1967-2007	from 2008

In contrast to case-hardening steel, the teeth of files and saws made from stainless steel are ground on a high-precision machine. Changes to the geometry of the metal file have made it stronger. The performance of the file has also been improved.



Stainless steel

#### Phillips



Recessed head-screws are basically classified into two main groups.

#### Norm for:

Phillips crosstip
 Pozidrive and Supradrive crosstip



Phillips

Pozidrive

The Pozidrive-Crosstip is the one most commonly used. Unfortunately it is not possible to activate a screw with a Phillips crosstip with a Pozidrive-screwdriver. For this reason we have created a crosstip screwdriver which can be used for both norms.

#### The bits for the CyberTool

When storing bits in the bit holder, please ensure that the ball locking device on each individual bit is positioned **against the sides** of the holder. This will ensure the bit is held more securely in the holder.

Victorinox procures the bits from a renowned German tool manufacturer. The steel used in their manufacture is **not** rust resistant and is therefore treated with a special surface protection. Nevertheless, they should be carefully maintained (cleaning, light oiling).





#### The LED module in Lite products

The shape of the housing has been optimised to prevent the devices from being turned on accidentally.



#### Using the wire stripper

Before connecting up an electrical wire, a certain amount of insulation needs to be removed. To do this, use the knife blade to carefully make a cut through the plastic insulation, stopping when you reach the actual wire underneath. To remove the insulation around the wire, place the wire stripper on the cut you have made and drag the insulation down.



If required, you can also use the wire-stripping notch to bend the end of the wire to form a loop. To do this, simply bend the wire around the notch of the wire stripper and the hook of the cap lifter. This enables you to create a uniform loop.

#### Using the corkscrew

Please follow these directions when using the corkscrew:

1. Remove the mini screwdriver (if present). The mini screwdriver is not supplied as standard with all models.



2. **Fully** insert the corkscrew into the cork and pull the cork **vertically upwards** and out of the bottle. Try to avoid twisting or tilting the knife body.

#### Multi-tools with a locking mechanism

This range of multi-tools is characterised by two different types of blade locking mechanism and by the stability of the riveting.

Robust services pocket tools with a locking mechanism for blade and strong screwdriver

#### 0.83-0.84

These knives are both very robust and lightweight, and are specially produced for the police, fire service and army. The locking mechanism operates via a stable linerlock.



Pocket multi-tools with a locking mechanism for the cutting blade only 0.88–0.90

These models have a much wider range (number of tools). The blade locking mechanism operates via a slider on the handle.



#### The altimeter from Victorinox

Air exerts a pressure on the surface of the earth under the influence of gravity. The amount of pressure depends on the quantity of air above the respective level. The pressure reduces as the altitude increases. As air can be compressed, the change in pressure is not linear to the increase in altitude.

To use the altimeter properly it is essential to strictly observe several rules. The altitude indicated could otherwise be just an approximate value and not good enough to provide accurate bearings under critical visibility conditions. If you have an altimeter, you must be able to rely on it. It is therefore a good idea for every user to check that the instrument is in correct working order every now and then.

For this purpose it is necessary to measure the altitude of two points in the terrain, which are situated close to each other and which are precisely detailed on the map. If the difference between the altitudes given on the map and the reading of the altimeter is more than ten meters, it is advisable to have the instrument tested by an expert.

#### Are the electronics waterproof?

None of the models with integrated electronics and/or LEDs (Altimeter, Voyager, Traveller, etc.) are essentially waterproof. We recommend that all electronics are kept away from liquids. However, if liquid does penetrate the housing, remove the batteries and allow the casing to dry out completely. Because the contacts are covered with a protective coating, the electronics will not be damaged. We recommend the following procedure for general cleaning:

Remove the batteries and carefully rinse the pocket tool under warm water. Allow the housing to dry out completely. Once dry, apply a small amount of oil to the springs and between the shanks of blades and tools.

#### Battery life and replacement

A CR1225 3V lithium button cell is used for the electronics. Alternatively, you can also use a CR1220. However, Victorinox cannot guarantee a reliable contact between the spring contact and this cell, as the CR1220 is slightly thinner than the CR1225. Under conditions of normal use, the battery has a lifespan of 1.5 years. Normal use

- Watch (inc. alarm, timer, stopwatch) or barometer
- Using the light twice a day to check the time or alarm
- Using the light while also setting the alarm clock every other day
- Taking an altitude or temperature reading twice a day

#### Care tips for pocket tools

When cutting or peeling fruit, fruit juice often works its way between blades, sticking them together as it dries. Place the blades under warm running water several times to restore ease of movement. Once dry, apply a small amount of oil to the springs and between the shanks of blades and tools.



#### Cleaning in a dishwasher

The temperature in dishwashers can reach between 55 and 80 degrees, depending on the selected cycle. Cleaning salts and strong cleaning agents are used during this process. If pocket knives and multi-tools are exposed to an aggressive environment such as this over a long period of time they can become damaged. **Therefore,** do not put penknives or other multitools in the dishwasher!

You can find further information on cleaning and maintenance in the leaflet «Care tips for pocket tools».

#### The handles of our pocket tools

The difference between Cellidor and nylon Cellidor is a trade name for organic cellulose ester, which is a modified natural product. Components made from cellulose propionates (Cellidor) exhibit an exceptional high-gloss look with a feeling of depth.

**Nylon** is a term used primarily in the U.S. to describe polyamides characterized by a recurrent amide group. Polyamides are used in the production of pocket knives chiefly because they exhibit better resistance to mechanical abrasion. They have a structured surface compared to high-gloss and smooth Cellidor components.

#### Cellidor

Swiss Army knives and Classic series

#### Polyamid

Pocket-Multi-Tools with lock-blade, grafting-knives, Ecoline

ABS (AcryInitril-Butadien-Styrol) SwissCards

#### How to replace handles

The handles of most officer's knives and pocket tools are centered over, and pressed onto bushings. This means it is easy to fit replacement handles yourself.





Insert a narrow blade between the handle and the knife body. Gently prize the handle away from the bushings. Repeat this process several times to completely separate both handles from the knife body.

Centre the two new replacement handles closely over the protruding brass bushings.

A vice can then be used to carefully press the handles onto the bushings. Take care! Place something soft (a piece of fabric, cardboard, etc.) between the clamping jaws to avoid damaging or scratching the surface of the handles.



#### Knife bodies for selfmade handles

Various artists and handle makers often produce pocket-tool handles made from special materials and/or ones that are carefully handcrafted. In such cases, it is not uncommon for these handles to be fitted to a standard Victorinox knife body. The Victorinox warranty applies solely to the knife body and not to the handles in these cases.

### Patents and designpatents

#### Interesting facts concerning table and kitchen knives made of stainless steel

Spoons, forks and metal goods like jugs, sinks and metal covers – all are made from highly alloyed, non-magnetic 18/8 or 18/10 chrome nickel steels. These steels contain 18 % chrome and 8 % to 10 % nickel. They are highly resistant to corrosion that can be caused by cooking salt from leftover food and regenerating salt. Knife blades used to be made of hardenable carbon steel which was not resistant to rust. Because of this, hotels used special knifecleaning machines and polishing paste to give the knife blades a shiny appearance. To save this time-consuming task the surface of the knife blades was chrome-plated.

Hardenable stainless steel for knife blades has been available only since 1921. The hardening process, at temperatures between 1020° C (1868° F) to 1060° C (1940° F), makes the blades hard, flexible and edge-retaining. The more carbon (0.3-1.0%) this steel contains, the harder and more edge-retaining it can be tempered but the less rust-resistant it becomes. On the other hand, with less carbon content the rust-resistance is better but the edge-retaining capacity is worse. With a higher carbon content the inferior rust-resistance is improved by an addition of molybdenum. (Knife blades made of chrome-nicke steel would be rust- and acid-resistant to a high degree but could be bent easily and would become blunt immediately).

Every single delivery of steel to the Victorinox manufacturing facility is analyzed and tested to determine which hardening and annealing temperature 160°C to 250°C (320°F to 482°F) guarantees the best edge-retaining capacity while preserving a sufficiently high rust-resistance. Victorinox sells about 7 million paring, table and household knives annually worldwide. Complaints relating to insufficient rust- and acid-resistance are insignificant, one for every 10'000 knives sold at the most.

Stains can develop

- if the knives are left uncleaned with saliferous or acidic leftovers
- if the dishwasher is not opened for a long period after the cleaning process and the knives are exposed to steam for too long
- when an aggressive or too much of a detergent is used.

These stains can easily be removed with a metal cleaning agent.

- In isolated cases knife blades can be affected by crevice-corrosion. This can occur when the knives are left wet for some time and come into contact with other metals thus producing a galvanic element. For this reason knife blades should not come into contact with spoons and forks in the dishwasher.

#### Cutting base

Hard cover plates made of natural or artificial stone should be avoided. A wooden board as cutting base should be used instead. As is the case with wooden handled knives, wooden cutting boards should not be cleaned in the dishwasher. The wood becomes swollen, bleached out and unsightly.

#### Resharpening

Blunt knife blades can be resharpened with a sharpening steel. The Victorinox knife sharpener (No. 7.8715) will enable you to do this job faster and more easily.



After years of use and resharpening, knife blades are bound to become thicker along the cutting edge thus making the resharpening process more difficult. It is therefore advisable to have the blade ground thinner and then polished along the sharpening edge by a professional. Great care must be taken so that the blade never gets hotter than 150°C (302°F) during the resharpening process.

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