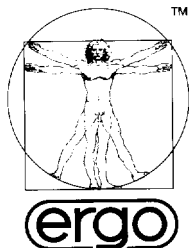


Ergonomic cutters & pliers



BAHCO

589 706 / 743

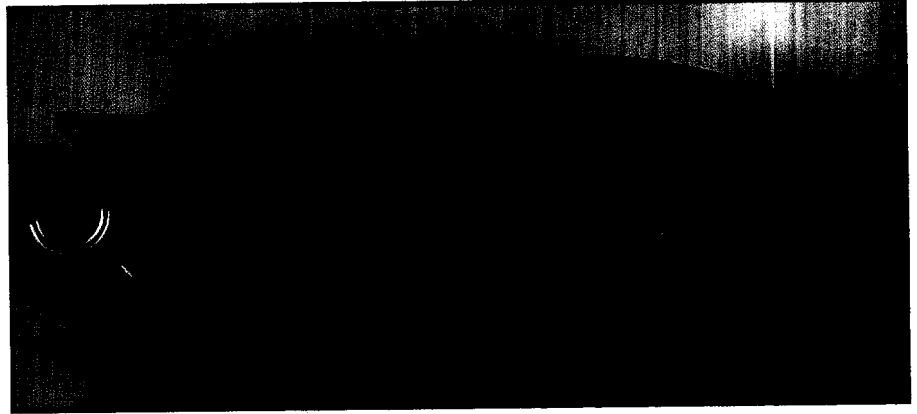


SANDVIK
BAHCO
2128 G
-160
MADE IN SWEDEN

The grip



In many professions good pliers are just as essential as nimble fingers. It is not unusual for an electronics assembly worker to make thousands of cuts in an 8 hour shift. Therefore it is easy to understand how important it is that the plier's handles and sleeves are correctly designed ergonomically, and that the cutting edges work efficiently. This reduces the risk for work related injuries to the muscles and tendons in the lower arm with lifelong disablement as a result.

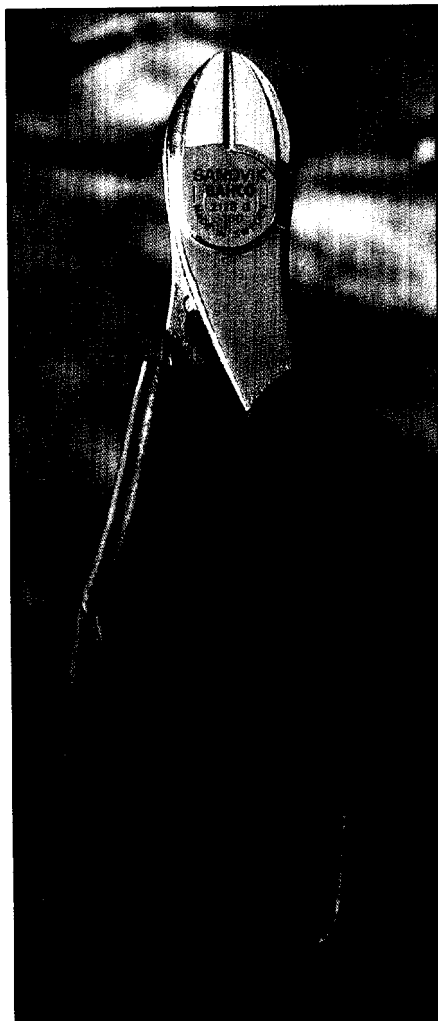


The ergo-sleeve reduces strain on the hand

Ergo-pliers have sleeves with a soft outer covering over a hard core. They are designed to spread the workload over a larger area to avoid tiring pressure. The soft surface is kind to the hand and gives a safe non-slip grip.

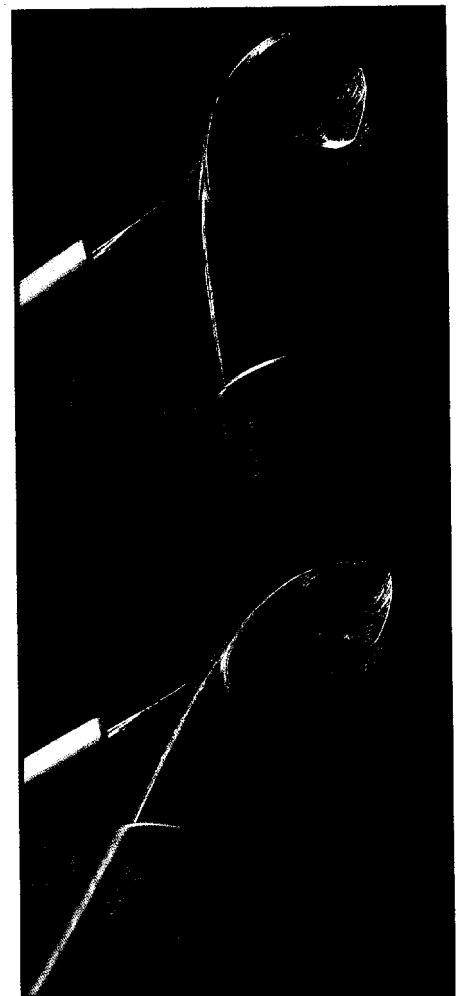
The best grip in all situations

Ergo-pliers are the result of a long scientific study of how professionals use pliers. The handles and sleeves on an ergo-plier are constructed to give the hand the best possible grip in many different working situations. In some situations it may be for example preferable to hold the pliers very near the jaws. Ergo-pliers are therefore constructed so that they can be held in many different ways and still have a good ergonomic effect.



The handle design makes use of the hand's strength

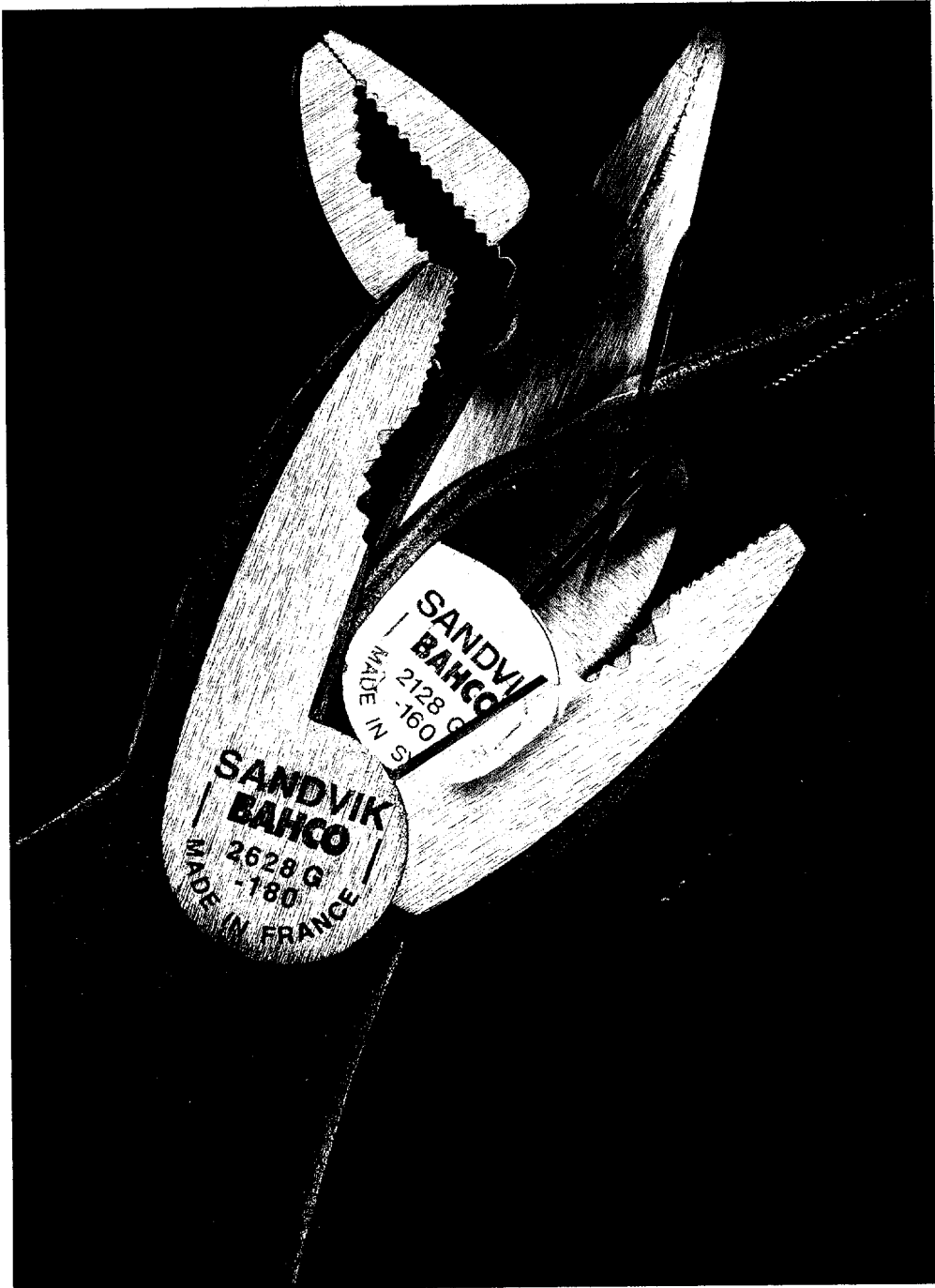
The way in which the handles of an ergo plier are designed is adapted to the work to be done with the plier. They are designed to evenly spread the hand's strength and to give maximum control over the work being done. All ergo-pliers make maximum use of the leverage effect to reduce strain on the hand.



Return spring eases work

All ergo-pliers are fitted with a return spring which automatically opens the jaws when the handle is released. The return spring allows faster work and a more relaxed grip on the plier with all the fingers on the outside of the handles. On some pliers the return spring can be easily engaged or disengaged according to the work to be done.

The function



The range

Standard pliers

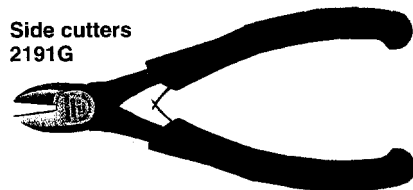
Combination pliers
2628G



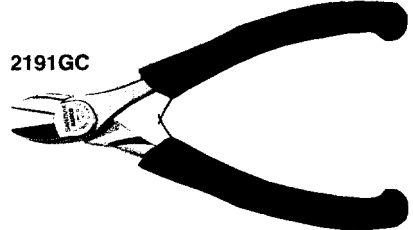
2628GC



Side cutters
2191G



2191GC



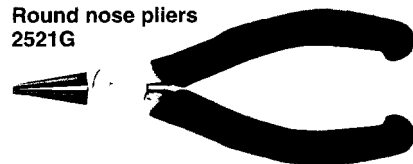
2128G



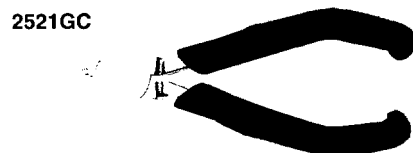
2128 GC





Round nose pliers
2521G



2521GC

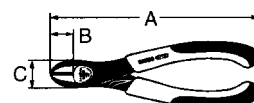
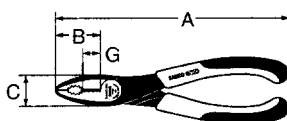


Type	EAN-code 731415+	Dimensions in mm					Max. cutting capacity		
		A	B	C	D	G			
Combination pliers for piano wire									
2628G-160 Black	0042999	167	33	23	10,5	16	1,8 mm P	200	5
2628G-180 Black	0042678	187,5	36	25	11	14	2,0 mm P	245	5
2628G-160IP Black	0055357	167	33	23	10,5	16	1,8 mm P	200	10
2628G-180IP Black	0044030	187,5	36	25	11	14	2,0 mm P	245	15
2628G-200IP Black	0101085	200	39	27,5	12,5	16	2,5 mm P	275	5
2628GC-160IP Chrome	0101863	167	33	23	10,5	16	1,8 mm P	200	5
2628GC-180IP Chrome	0101870	187,5	36	25	11	14	2,0 mm P	245	5
2628GC-200IP Chrome	0101887	200	39	27,5	12,5	16	2,5 mm P	275	5
Side cutters for copper wire and hard steel wire									
2191G-140 Black	0038626	147	17	18	9		1,75 mm H	155	5
2191G-160 Black	0038633	167	18	20	10		2,0 mm H	195	5
2191G-125IP Black	0101894	131	16,5	16	8		1,5 mm H	120	5
2191G-140IP Black	0044009	147	17	18	9		1,75 mm H	155	15
2191G-160IP Black	0044016	167,5	18	20	10		2,0 mm H	195	15
2191GC-125IP Chrome	0101900	131	16,5	16	8		1,5 mm H	120	5
2191GC-140IP Chrome	0101740	147	17	18	9		1,75 mm H	155	5
2191GC-160IP Chrome	0101917	167,5	18	20	10		2,0 mm H	195	5
Side cutters for piano wire									
2128G-140 Black	0042623	147	16	20	9,5		1,8 mm P	165	5
2128G-160 Black	0042630	167,5	18,5	23	10,5		2,0 mm P	225	5
2128G-125IP Black	0102471	131	13,5	18	8		1,6 mm P	115	10
2128G-140IP Black	0043927	147	16	20	9,5		1,8 mm P	165	15
2128G-160IP Black	0043934	167,5	18,5	23	10,5		2,0 mm P	225	15
2128GC-125IP Chrome	0102358	131	13,5	18	8		1,6 mm P	115	5
2128GC-140IP Chrome	0102365	147	16	20	9,5		1,8 mm P	165	5
2128GC-160IP Chrome	0102372	167,5	18,5	23	10,5		2,0 mm P	225	5
Round nose pliers with serrated jaws									
2521G-140 Black	0100293	152	39	14	7			140	5
2521G-140IP Black	0100613	152	39	14	7			140	5
2521GC-140IP Chrome	0102044	152	39	14	7			140	5

The pliers are delivered in either industrial or consumer packs

IP = Industrial packs (without consumer packs)
G = Phosphated
GC = Chromiumplated

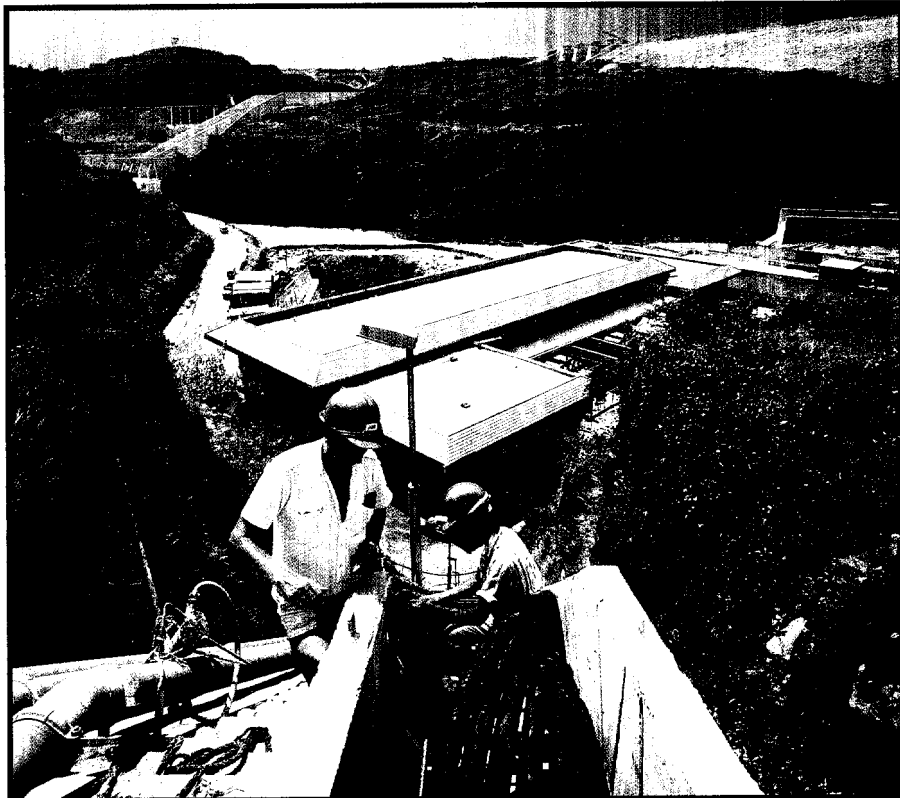
H = Hard steel wire
P = Piano wire



Ergo products are design protected
Ergo is a protected trade mark

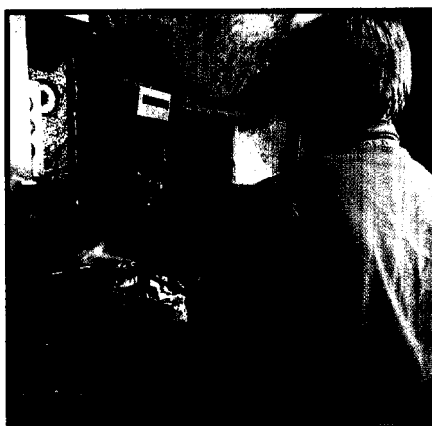
There is nothing more irritating for a professional than a tool that breaks, doesn't work or wears out. Of course this always seems to happen at a critical moment, for example when the job has to be finished by a certain time, when you are at the top of a ladder or when you are 50 miles from the nearest hardware store. That's why you need pliers of top professional quality - just like those from Sandvik Bahco! Thousands of cuts can be made with our cutting pliers before any signs of wear appear.

Our quality control system guarantees that every ergo-plier you buy is of the same high even quality.



100 years of development work behind today's ergo handtools

Sandvik Bahco has more than a century of experience from heat treatment of special steel and manufacturing hand tools. By consolidating, using and developing these reserves of knowledge, we have become world leaders in producing new generations of quality hand tools that combine good ergonomics with top performance.



The right finish ensures maximum life

Ergo-pliers are available with different finishes according to the type of rust protection required. The phosphated pliers are suitable for all normal use. The chromiumplated pliers can be used in working environments that demand better protection against rust.

First in Europe with the ISO 9001 quality system

Our quality system covers all stages of manufacture from development to delivery. Sandvik Bahco was the first manufacturer of hand tools in Europe to be internationally approved according to the ISO 9001 quality system. This guarantees that every stage of the manufacturing process is right and that our tools live up to your expectations.



Quality



A Sandvik Bahco plier has more functions and advantages than any other plier on the market. The idea behind all these finesses is of course to make work easier, more effortless, safer and more enjoyable.

The ergo-range comprises a large choice of combination pliers, side cutters and holding pliers with round, flat and snipe-nose jaws. They are available in two different series – for normal workshop and installation work and electronics and fine mechanical work.



Edges and jaws suited to different work situations

Sandvik Bahco's side cutters for copper and steel wire have a special type of extremely sharp edge. For cutting extremely hard material - such as piano wire – there are ergo-pliers with a slightly rounded cutting edge more suitable for tougher work.

The Compact ergo-series of electronic pliers is available with different cutting edge bevels to give the exact cut required for soldering. They are also available with angled jaws for easy access in confined spaces.

The diversity of the ergo-range means that you can always find a plier to suit the job in hand.

Rounded shape makes work easier

The contours of the jaws is also an important point. All ergo-pliers have jaws with softer rounded contours. This makes them easier to use in confined spaces and more comfortable to work with, even if you hold your hand over the jaws. There are no sharp edges or abrupt corners to make holes in your pocket, cause blisters in the hand or damage electronics components.

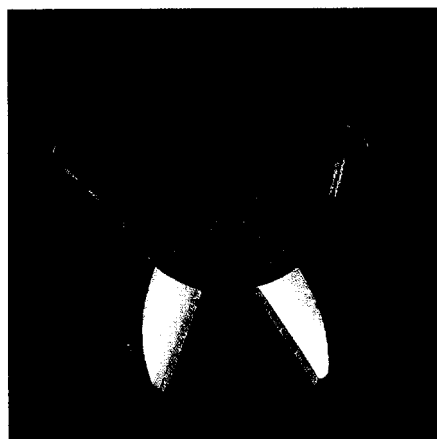


The world's fastest slip-joint plier

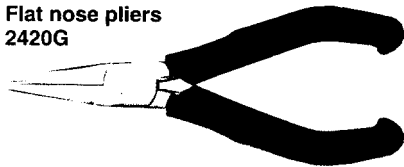
The jaw width of the ergo slip-joint plier can quickly and easily be changed with one hand as opposed to other makes which need two. The slip-joint plier has jaws of tempered steel which never lose their grip. They also have extra large jaw width and long slim jaws for easy access in confined spaces.

Better cutting capacity with less force

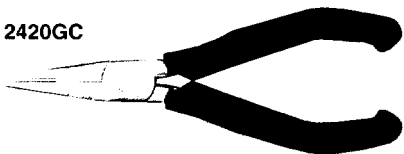
The greatest possible cutting capacity using as little force as possible is often a wish when using cutting pliers. Ergo-pliers have a special joint design which gives better leverage than other pliers of the same size. The sharpest possible cutting edges also help minimise the force required.



Flat nose pliers
2420G



2420GC



2421G



2421GC



Snipe nose pliers, 60°
2427G



2427GC





Snipe nose pliers, straight
2430G



2430GC



Type	EAN-code 731415+	Dimensions in mm					Max. cutting capacity		
		A	B	C	D	G			
Flat nose pliers with serrated jaws									
2420G-125 Black	0102525	136	23	14	7			130	5
2420G-125IP Black	0101955	136	23	14	7			130	5
2420GC-125IP Chrome	0101962	136	23	14	7			80	5
2421G-140 Black	0102532	152	39	14	7			140	5
2421G-160 Black	0102549	174	49,5	16	8			165	5
2421G-180 Black	0102556	189	64	16	8			175	5
2421G-140IP Black	0102006	152	39	14	7			140	5
2421G-160IP Black	0100576	174	49,5	16	8			165	5
2421G-180IP Black	0100583	189	64	16	8			175	5
2421GC-140IP Chrome	0102013	152	39	14	7			140	5
2421GC-160IP Chrome	0102020	174	49,5	16	8			165	5
2421GC-180IP Chrome	0102037	189	64	16	8			175	5
Snipe nose pliers with serrated jaws and 60° angled tips									
2427G-160 Black	0100408	174	49,5	16	8	12	1,5 mm H	155	5
2427G-200 Black	0100415	190	66	16	8	12	1,5 mm H	170	5
2427G-160IP Black	0100743	174	49,5	16	8	12	1,5 mm H	155	5
2427G-200IP Black	0100750	190	66	16	8	12	1,5 mm H	170	5
2427GC-160IP Chrome	0102051	174	49,5	16	8	12	1,5 mm H	155	5
2427GC-200IP Chrome	0102075	190	66	16	8	12	1,5 mm H	170	5
Snipe nose pliers with cutting edge and serrated jaws									
2430G-140 Black	0102563	152	39	14	7	12	1,25 mm H	130	5
2430G-160 Black	0024070	174	49,5	16	8	12	1,5 mm H	155	5
2430G-200 Black	0100422	198	73,5	16	8	12	1,5 mm H	170	5
2430G-140IP Black	0102143	152	39	14	7	12	1,25 mm H	130	5
2430G-160IP Black	0100811	174	49,5	16	8	12	1,5 mm H	155	5
2430G-200IP Black	0100835	198	73,5	16	8	12	1,5 mm H	170	5
2430GC-140IP Chrome	0102150	152	39	14	7	12	1,25 mm H	130	5
2430GC-160IP Chrome	0102167	174	49,5	16	8	12	1,5 mm H	155	5
2430GC-200IP Chrome	0102174	198	73,5	16	8	12	1,5 mm H	170	5

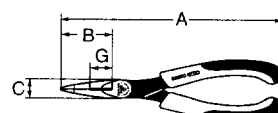
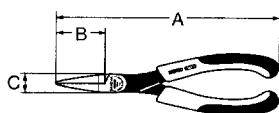
The pliers are delivered in either industrial or consumer packs

IP = Industrial packs (without consumer packs)

G = Phosphated

GC = Chromiumplated

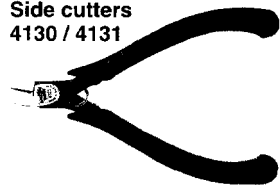
H = Hard steel wire



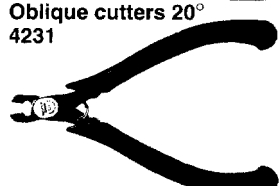
Ergo products are design protected
Ergo is a protected trade mark

Compact ergo – pliers for precision engineering and electronics

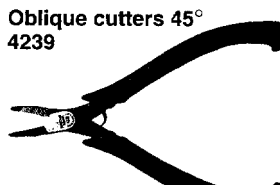
Side cutters
4130 / 4131



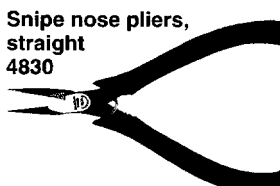
Oblique cutters 20°
4231



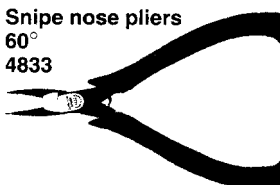
Oblique cutters 45°
4239



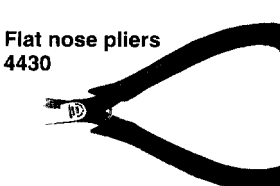
Snipe nose pliers, straight
4830



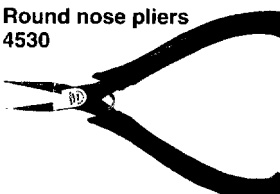
Snipe nose pliers
60°
4833



Flat nose pliers
4430

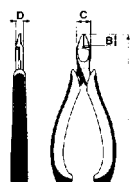


Round nose pliers
4530

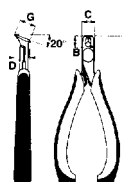


Type	EAN-code 731415+	A	B	C	D	E	F	G	Cutting capacity Copper wire	Bevel	g	mm
Side cutters												
4130 Black	0100019	120	9	11	6,8				0,3-1,5 mm	Micro	60	9
4131 Black	0100026	120	9	11	6,8				0,3-1,5 mm	Flush	60	3
Oblique cutters, 20°												
4231 Black	0100033	119	12	10	6,8			12,8	0,3-1,25 mm	Flush	55	3
Oblique cutters, 45°												
4239 Black	0100088	129	-	9	6,8			6,1	0,3-1,0 mm	Flush	60	3
Snipe nose pliers, straight												
4830 Black	0100057	135	26	9	6,8	1	1				60	3
Snipe nose pliers, straight												
4833 Black	0100064	131,5	22,5	9	6,8	1	1				55	3
Flat nose pliers												
4430 Black	0100040	135	26	9	6,8	1	4				54	3
Round nose pliers												
4530 Black	0100095	135	20	9	6,8		0,8				60	3

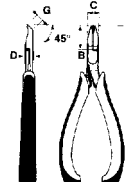
The pliers are delivered in consumer packs.



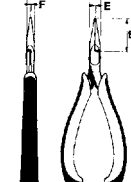
4130
4131



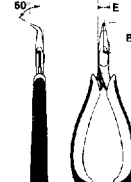
4231



4239



4830
4430
4530



4833

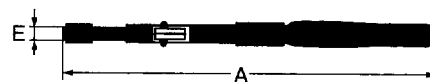
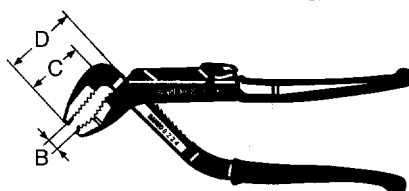
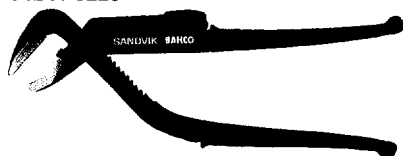
Slip-joint pliers

Type	EAN-code 731415+	A	B	C	D	E	g	mm
Slip-joint pliers								
8224 Black	0000012	250	45	40	53	7,5	350	5
8225 Black	0000029	315	55	52	67	9	560	3
8224IP Black	0101757	250	45	40	53	7,5	350	5
8225IP Black	0101764	315	44	52	67	9	560	5

The slip-joint plier is delivered in either industrial or consumer packs

IP = Industrial packs (without consumer packing)

Slip-joint pliers
8224 / 8225



Ergo products are design protected
Ergo is a protected trade mark

ergo® – for your own safety

A research approach to ergonomic hand tools

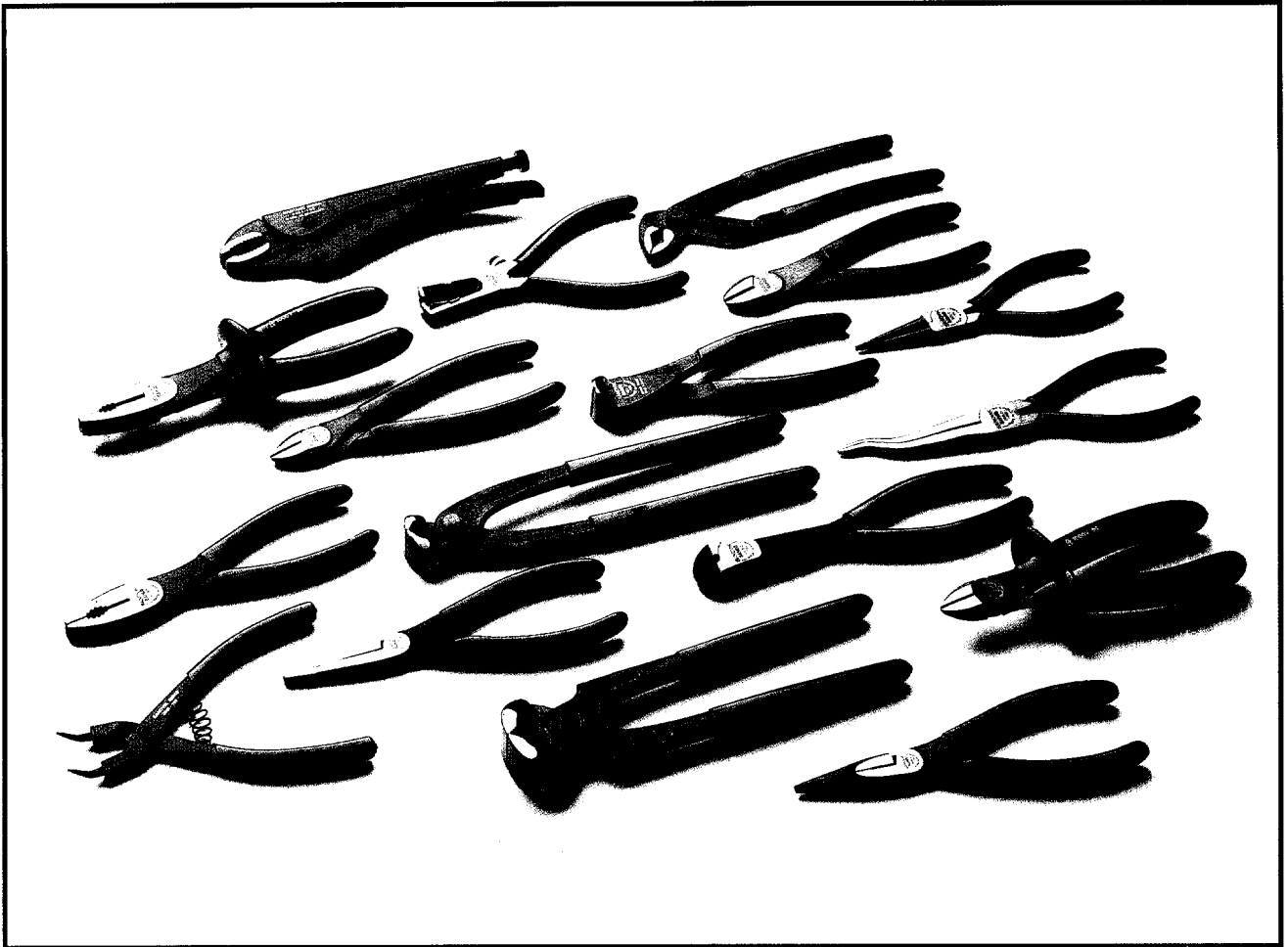
Sandvik Bahco guarantees that every handtool that carries the ergo marking has been subjected to a unique scientific, 11 point test programme for ergonomics and function.

The testing programme includes exhaustive tests with users from different professions and trades. The test group's

task is to test a prototype series of the new tool in normal working day conditions. The test results are then carefully analysed by experts in medicine, ergonomics and industrial design. After adjustments, another user test is carried out before the design is finally trademark protected and the tool is approved

for manufacture. The testing programme ensures that each ergo tool has several unique qualities which increase its usefulness and the pleasure of using it while radically reducing the risk for painful and costly work related injuries.





Apart from the ergo products shown in this brochure, Sandvik Bahco has about 500 other types of pliers for electronics and precision engineering. Please contact your nearest dealer for further information.

