

# Ergonomic adjustable wrenches



BAHCO



# The grip

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**T**he adjustable wrench is an unbeatable hand tool for people who are tired of having to carry loads of heavy spanners and socket wrenches around.

We know that you the professional expect your tools to maintain a high quality as regards precision, ease of use, strength and design so that you can do a good job in all situations.

Sandvik Bahco's ergo adjustable wrenches make work easier for assembly and repair workers all over the world and their place in the professional's toolbox is well motivated.

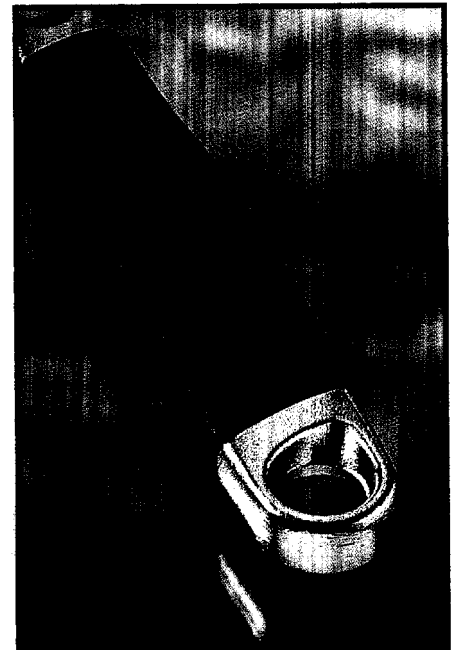
### **Made to withstand rough use**

Ergo adjustable wrenches have been designed to cope with the most demanding work. Scientific studies on how professionals use adjustable wrenches have formed the basis of the design. The handle of an ergo adjustable wrench has been designed to use the strength of the hand and to give the best possible grip in different work situations.

### **Available with hard or soft handle**

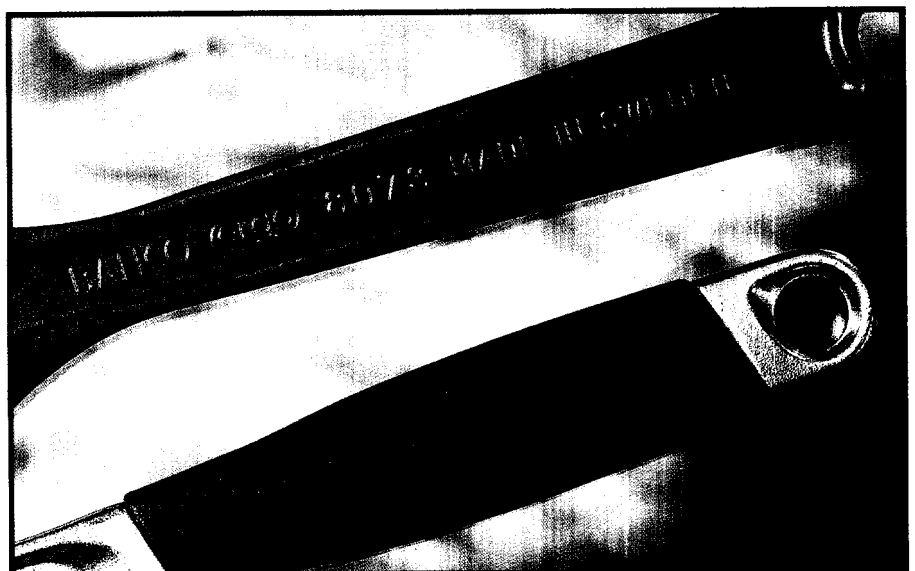
The ergo adjustable wrench is available in two types. The 80 series has a traditional, extra wide, rounded steel handle. The 90 series has a forged handle with a comfortable sleeve of thermoplastic elastomer. The sleeve is suited to the way in which the hand works and strain can therefore be reduced. The sleeve also gives a "warm" grip under cold working conditions and a "cool" grip at high temperatures.

The plastic material withstands temperatures ranging from  $-40^{\circ}$  to  $+100^{\circ}$  C. The roughened surface of the sleeve offers a firm grip even when the handle is oily and dirty.



### **The forging design protects the hand**

Sandvik Bahco's ergonomic adjustable wrenches are produced in one of the world's most modern forging plants using more than a hundred years experience in manufacturing adjustable wrenches. The handles are smoothly rounded and have no sharp edges which can injure the hand. The adjustable wrench's unique design is trade mark protected.



# Functions

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**A** Sandvik Bahco ergo adjustable wrench has more functions and advantages than any other adjustable wrench on the market. The idea behind all these finesses is of course to make work easier, more effortless, safer and more enjoyable. Sandvik Bahco has the market's widest range of adjustable wrenches to cope with most sizes of nut, bolt and screw. We also have the combination adjustable wrench and a number of classic special adjustable wrenches like No. 31 the "shark jaw" and No.10 the "bike adjustable".

*Stronger than the demands set by ISO and US standards – whichever drive direction is used.*

*15° angle for maximum access in confined spaces.*

*Narrower and thinner jaws for better access.*

*Shaft on moveable jaw completely hidden in handle allows better access and gives greater strength.*

*Parallel jaw faces*

*Scale for pre-setting jaw opening and for measuring bolt heads, metal thickness, etc.*

*Extra coarse serrating on the adjustable knurl for easier setting.*

*Generous opening for adjustable knurl makes setting jaw opening easy even when wearing gloves.*

*Ergonomically designed sleeve distributes pressure evenly in the hand, reducing the risk for work related injuries.*

*Good balance between head and handle makes the 90 series adjustable wrenches very comfortable to use.*

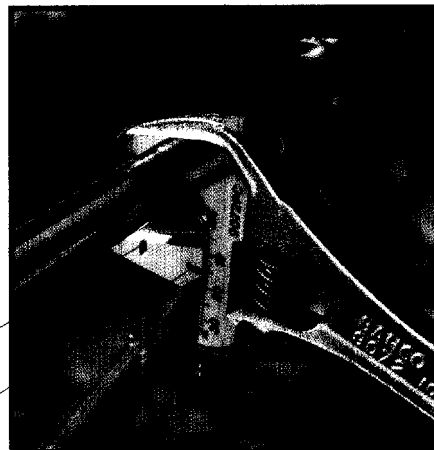
*One piece forged steel handle for extra strength.*

**The combination adjustable wrench solves many round problems**

By removing and turning the moveable jaw you can change the adjustable wrench into a pipe wrench. The largest adjustable wrench offers a firm grip on round objects with a diameter between 5 and 34 mm. The toothed jaw is induction hardened and will bite into even the hardest material. With the moveable jaw in the normal position the adjustable wrench will grip nuts and bolts of up to 34 mm.

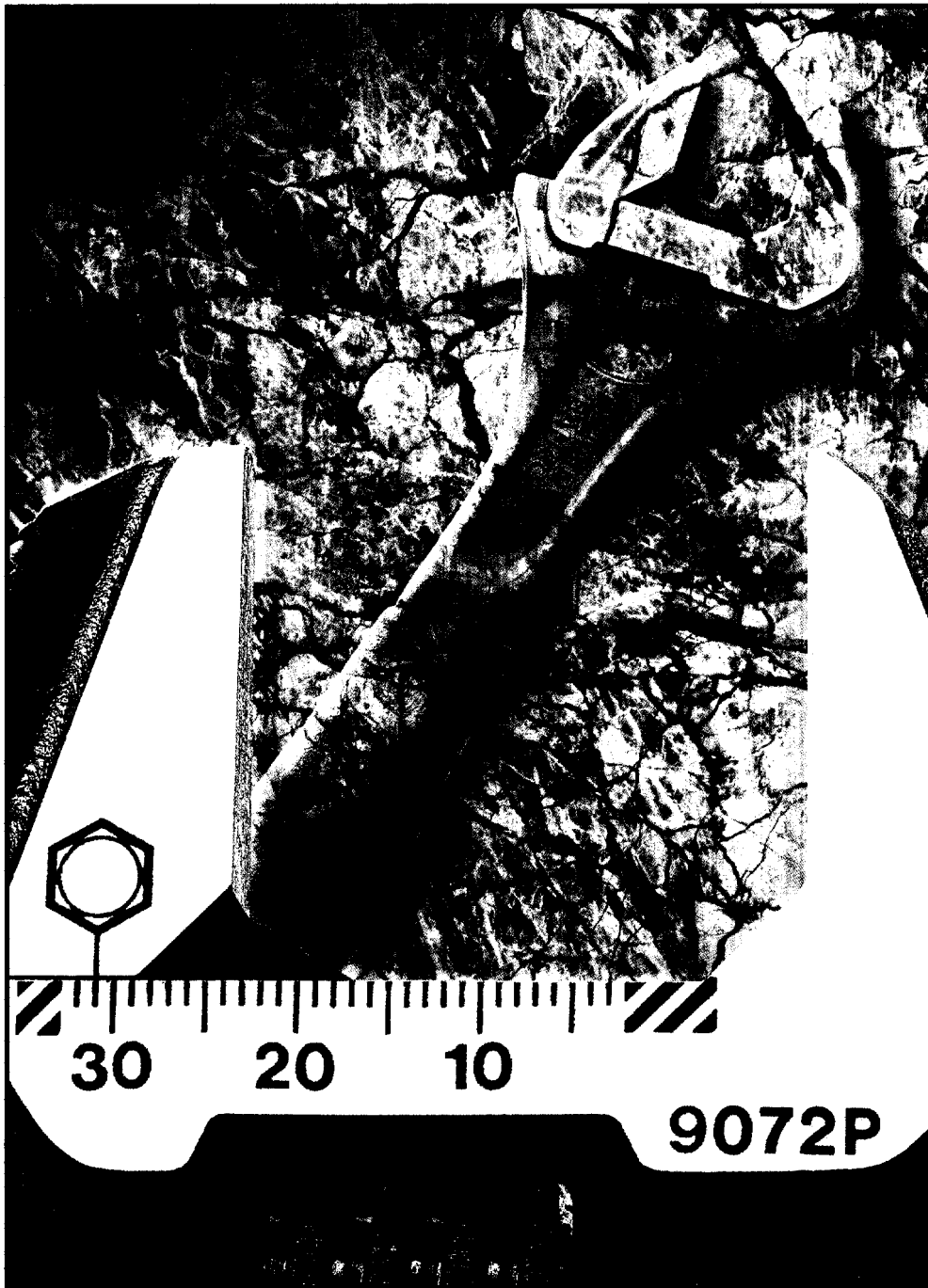
The combination adjustable wrench is the perfect solution for loosening rounded nuts and bolts which cannot be gripped with a normal adjustable wrench, spanner or socket. With a combination adjustable wrench in your toolbox, rounded nuts and bolts are no longer a problem.

*With the pipe centre opposite the horizontal line on the moveable jaw you can easily read the pipe diameter against the vertical marking.*



# Quality

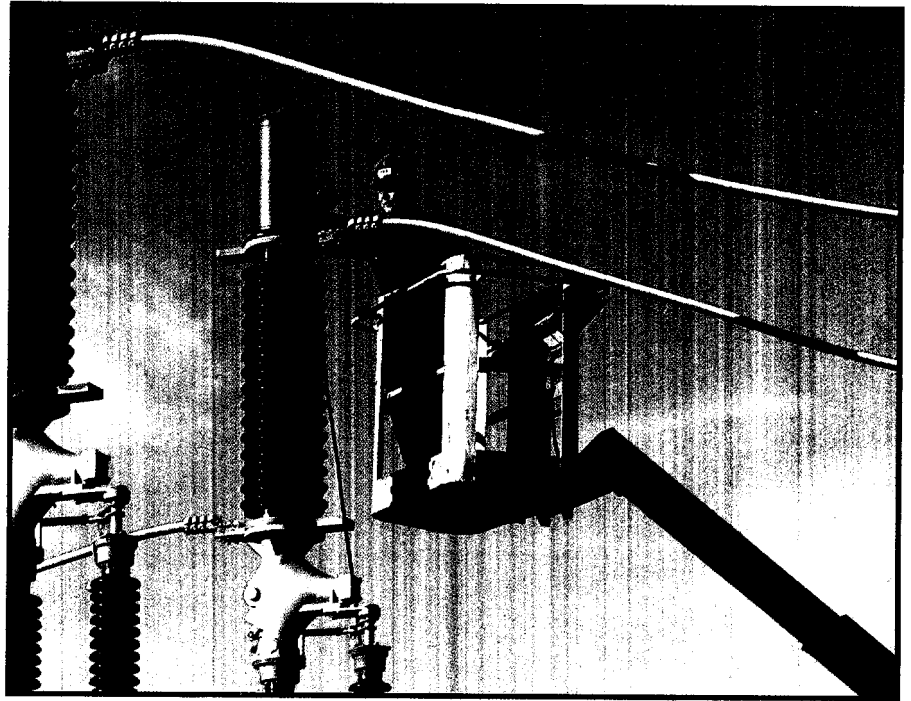
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**T**here is nothing more irritating for a professional than a tool that breaks, doesn't work or wears out.

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 an adjustable wrench of top professional quality – just like those from Sandvik Bahco!

Our quality control system guarantees that every ergo adjustable wrench 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 adjustable wrenches and other hand tools. By consolidating, using and developing these reserves of knowledge, we have become world leaders in producing new generations of adjustable wrenches that combine good ergonomics with top performance.



### **The right finish ensures maximum life**

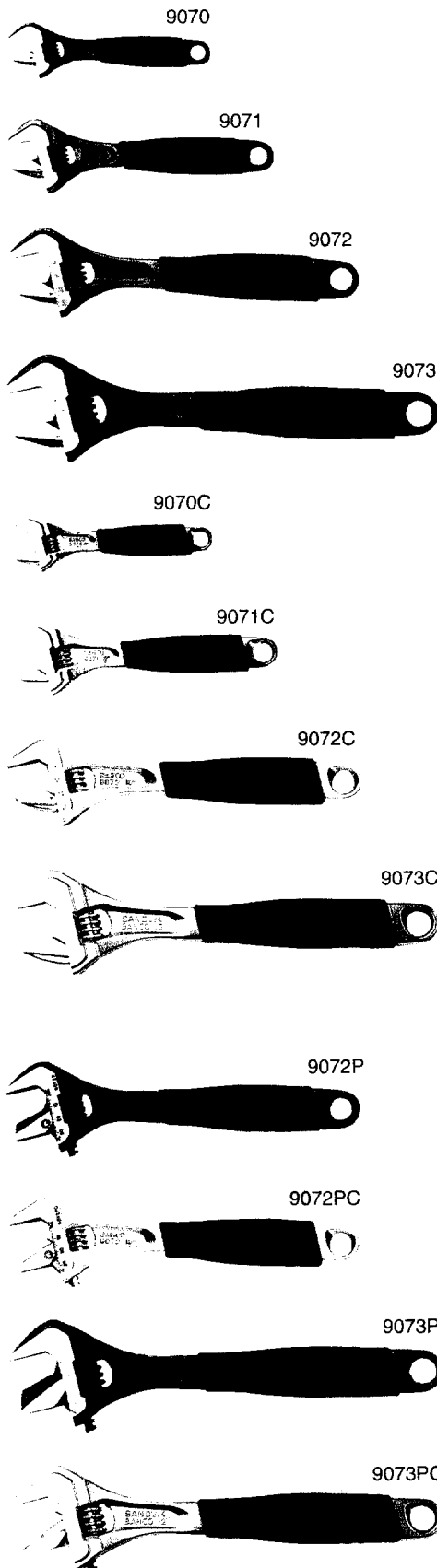
The ergo adjustable wrenches are available with different finishes according to the type of rust protection required. The phosphated adjustable wrenches are suitable for all normal use while the chromiumplated adjustable wrenches are more suited to working environments which demand better protection 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.

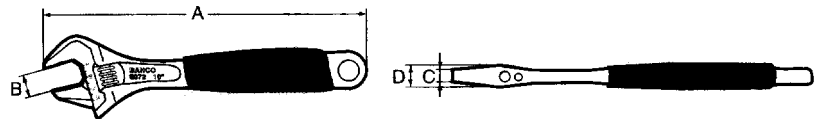


# The range



## Standard adjustable wrenches – ergo 90-series

Type	EAN-code 731415+	In. A	Dimensions in mm				rNm ISO	g	kg
		A	A	B	C	D			
9070 Black	0100170	6	158	20	4,9	11,3	85	139	5
9071 Black	0100194	8	208	27	6,0	12,9	180	272	5
9072 Black	0055609	10	257	31	8,7	15,2	325	425	5
9073 Black	0101702	12	308	34	11,9	17,6	515	690	5
9070 IP Black	0102945	6	158	20	4,9	11,3	85	139	40
9071 IP Black	0102952	8	208	27	6,0	12,9	180	272	50
9072 IP Black	0102969	10	257	31	8,7	15,2	325	425	30
9073 IP Black	0102983	12	308	34	11,9	17,6	515	690	20
9070 C Chrome	0100187	6	158	20	4,9	11,3	85	139	5
9071 C Chrome	0100200	8	208	27	6,0	12,9	180	272	5
9072 C Chrome	0055616	10	257	31	8,7	15,2	325	425	5
9073 C Chrome	0101719	12	308	34	11,9	17,6	515	690	3



## Combination adjustable wrenches – ergo 90-series

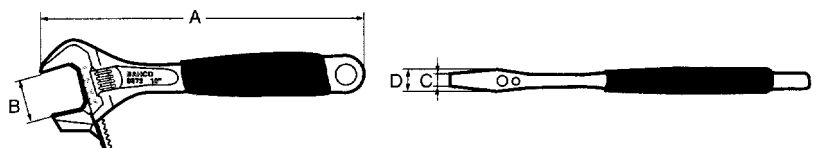
Type	EAN-code 731415+	In. A	Dimensions in mm				rNm ISO	g	kg
		A	A	B	C	D			
9072 P Black	0056254	10	257	33	8,7	15,2	325	430	5
9073 P Black	0101726	12	308	34	11,9	17,6	525	690	5
9072 P IP Black	0102976	10	257	33	8,7	15,2	325	430	30
9073 P IP Black	0102990	12	308	34	11,9	17,6	525	690	20
9072 PC Chrome	0056361	10	257	33	8,7	15,2	325	430	5
9073 PC Chrome	0101733	12	308	34	11,9	17,6	525	690	3

Finish: black phosphated or chromiumplated.

Delivered in consumer packing

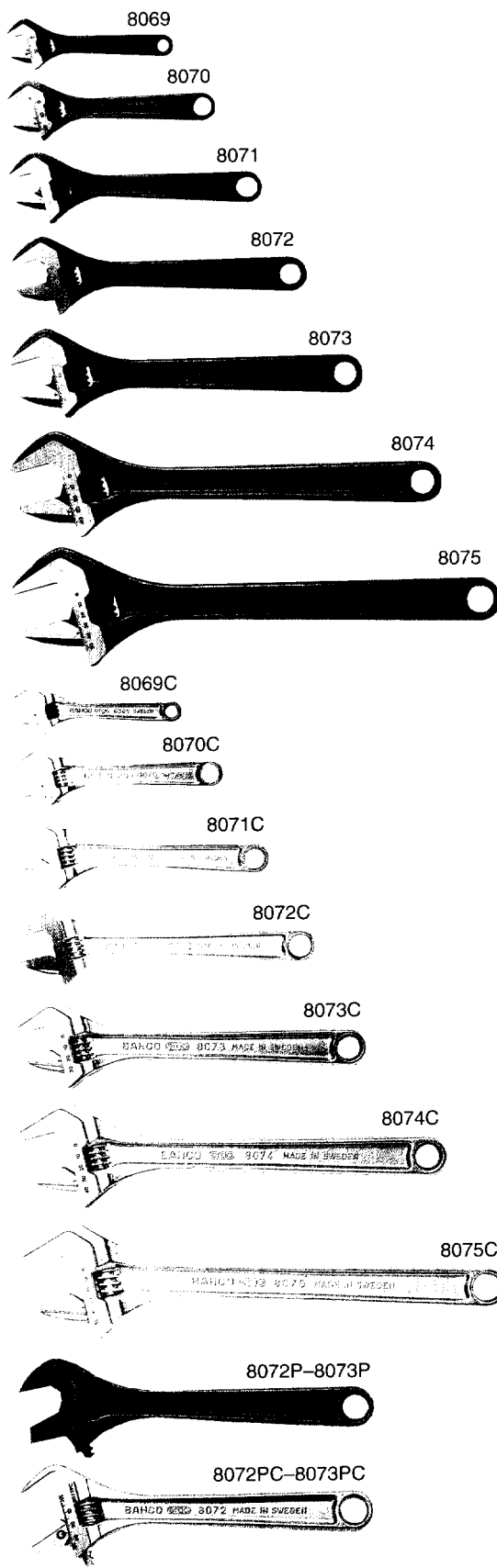
P = Combination adjustable wrench with reversible sliding jaw

C = Chromiumplated





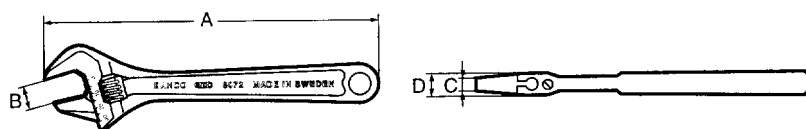
Ergo products are design protected  
Ergo is a protected trade mark







## Standard adjustable wrenches – ergo 80-series

Type		EAN-code 731415+	In. A	Dimensions in mm				Nm ISO	 	
			A	B	C	D				
8069	Black	0007028	4	110	13	4,0	9,0	33	60	5
8070	Black	0007110	6	155	205	4,9	11,3	85	135	5
8071	Black	0007202	8	205	27	6,0	12,9	180	255	5
8072	Black	0007288	10	255	30	8,6	15,5	320	400	5
8073	Black	0007363	12	305	34	11,9	18,0	515	645	5
8074	Black	0007448	15	380	44	14,0	20,0	920	1035	1
8075	Black	0007523	18	455	53	17,7	22,5	1370	1665	1
8069 IP	Black	0007042	4	110	13	4,0	9,0	33	60	50
8070 IP	Black	0007134	6	155	20	4,9	11,3	85	135	40
8071 IP	Black	0007226	8	205	27	6,0	12,9	180	255	50
8072 IP	Black	0007301	10	255	30	8,6	15,5	320	400	30
8073 IP	Black	0007387	12	305	34	11,9	18,0	515	645	20
8074 IP	Black	0007462	15	380	44	14,0	20,0	920	1035	20
8075 IP	Black	0007547	18	455	53	17,7	22,5	1370	1665	15
8069 C	Chrome	0007035	4	110	13	4,0	9,0	33	60	5
8070 C	Chrome	0007127	6	155	20	4,9	11,5	85	132	5
8071 C	Chrome	0007219	8	205	27	6,0	13,0	180	255	5
8072 C	Chrome	0007295	10	255	30	8,6	15,5	320	400	5
8073 C	Chrome	0007370	12	305	23	11,9	18,0	515	645	3
8074 C	Chrome	0007455	15	380	44	14,0	20,0	920	1035	1
8075 C	Chrome	0007530	18	455	53	17,7	22,5	1370	1665	1
8069 C IP <sup>1)</sup>	Chrome	0101634	4	110	13	4,0	9,0	33	60	5
8070 C IP <sup>1)</sup>	Chrome	0101641	6	155	20	4,9	11,5	85	132	5
8071 C IP <sup>1)</sup>	Chrome	0101658	8	205	27	6,0	13,0	180	255	5
8072 C IP <sup>1)</sup>	Chrome	0101665	10	255	30	8,6	15,5	320	400	5
8073 C IP <sup>1)</sup>	Chrome	0101672	12	305	34	11,9	18,0	515	645	3
8074 C IP <sup>1)</sup>	Chrome	0101689	15	380	44	14,0	20,0	920	1035	3
8075 C IP <sup>1)</sup>	Chrome	0101696	18	455	53	17,7	22,5	1370	1665	3



## Combination adjustable wrenches – ergo 80-series

Type		EAN-code 731415+	In. A	Dimensions in mm				Nm ISO	 	
			A	B	C	D				
8072 P	Black	0042524	10	255	30	8,6	15,5	320	400	5
8073 P	Black	0101610	12	305	34	8,6	18,0	515	702	5
8072 P IP	Black	0046522	10	255	30	8,6	15,5	320	400	30
8072 PC	Chrome	0043217	10	255	30	8,6	15,5	320	400	5
8073 PC	Chrome	0101627	12	305	34	8,6	18,0	515	702	5

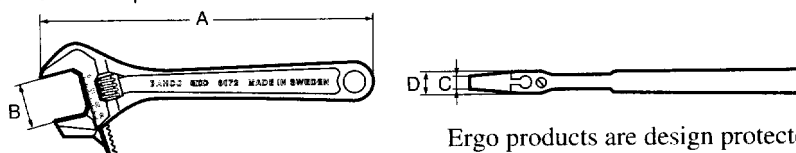
Delivered in either industrial or consumer packs.

<sup>1)</sup> = For the European market only (EDC)

P = Combination adjustable wrench with reversible sliding jaw

IP = Industry pack (without consumer packing)

C = Chromiumplated



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Ergo is a protected trade mark

# The range

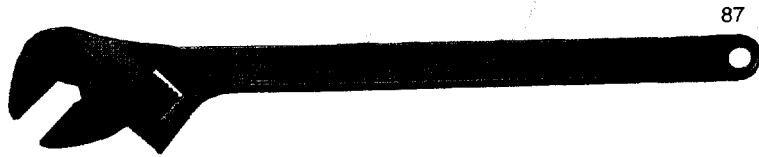
## Special adjustable wrenches



The "Bike adjustable" has a thinned flat end to the handle to ease tyre removal



The "Shark jaw" with an adjustable wrench at one end and a serrated pipe jaw at the other. The adjustable wrench has a large width across the jaw in relation to its size and can cope with the most usual dimensions in pipe fittings.



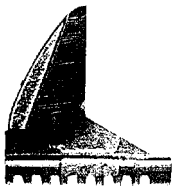
86-87. Adjustable wrenches for large size nuts and bolts and really tough work.

## Spare parts

There is a complete range of spare parts readily available for Sandvik Bahco adjustable wrenches.



Sliding jaw, black



Sliding jaw, chrome

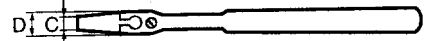
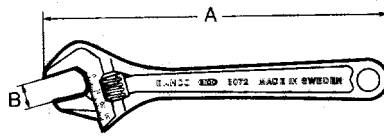


Adjustable knurl, pin and spring

Type	EAN-code 731415+	A in.	Dimensions in mm				Nm ISO	ISO	ISO	ISO
			A	B	C	D				
<b>Others</b>										
10	Black	0004911	6	155	19	4,9	11,0	85	120	5
31	Black	0004942	8	205	32	5,5	13,5	180	270	10
86	Black	0005376	24	614	63	27,5	29,0	3000	3165	1
87	Black	0005406	30	770	85	31,0	33,0	3000	5700	1
31 IP	Black	0004959	8	205	32	5,5	13,5	180	270	50

Delivered in consumer packs

IP = Industry pack (without consumer packing)



86

87

Product code	EAN-code	For adjustable wrench
<b>Sliding jaw</b>		
8069-2	Black 0007059	1 8069
8070-2	Black 0007141	1 8070, 9070
8071-2	Black 0007233	1 8071, 9071
8072-2	Black 0007318	1 8072, 9072
8073-2	Black 0007394	1 8072, 9073
8074-2	Black 0007479	1 8074
8075-2	Black 0007554	1 8075
8069 C-2	Chrome 0007066	1 8069 C
8070 C-2	Chrome 0007158	1 8070 C, 9070 C
8071 C-2	Chrome 0007240	1 8071 C, 9071 C
8072 C-2	Chrome 0007325	1 8072 C, 9072 C
8073 C-2	Chrome 0007400	1 8073 C, 9073 C
8074 C-2	Chrome 0007486	1 8074 C
8075 C-2	Chrome 0007561	1 8075 C
10-2	Black 0004928	1 10
31-2	Black 0004966	1 31
86.2	Black 0005383	1 86
87-2	Black 0005413	1 87
<b>Adjustable knurl, pin and spring</b>		
8069-95	0007073	1 8069, 8069 C
8070-95	0007165	1 8070, 8070 C, 9070, 9070 C
8071-95	0007257	1 8071, 8071 C, 9071, 9071 C
8072-95	0007332	1 8072, 8072 C, 9072, 9072 C+P
8073-95	0007417	1 8073, 8073 C, 9073, 9073 C+P
8074-95	0007493	1 8074, 8074 C
8075-95	0007578	1 8075, 8075 C
10-95	0004935	1 10
31-95	0004973	1 31
86-95	0005390	1 86
87-95	0005420	1 87

# ergo – for your own safety

## Tools ergonomically designed after scientific studies

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 trade mark 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.



# The original

On May 11th, 1892 J.P. Johansson of Enköping, Sweden was granted the first patent for an "Adjustable wrench" with the same general design as today's modern adjustable wrenches. This laid the foundation for Sandvik Bahco in

Enköping – the factory which today is one of the world's leading manufacturers of adjustable wrenches and pliers. That J.P. Johansson was a mechanical genius is proved by the fact that he had already been given a patent in 1888 for

the pipe wrench and the fact that his adjustable wrench has been developed in only six stages from the patented "Adjustable wrench" of 1892 to today's modern ergonomic adjustable wrenches in the ergo 90-series.

