

Caring for Bahco pruning tools

Keep your pruning tools sharp for optimum plant health while minimizing fatigue. A little maintenance at frequent intervals will keep the cutting edges of your Bahco pruning tool razor sharp. Cleaning and oiling will keep their actions smooth and fast.

Four steps to maintain your Bahco pruning tools

1.Cleaning

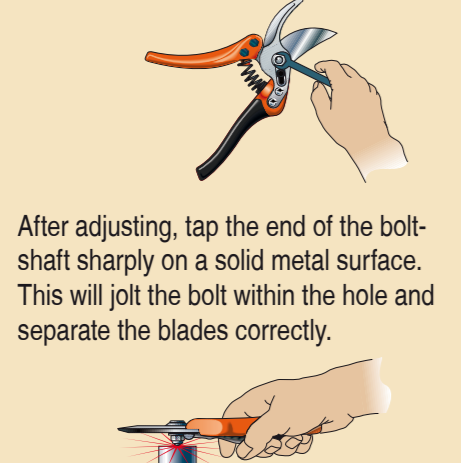
Moisten a rag with SAP-X until it feels damp. Wipe sap and debris from the blade and counterblade.

Wipe the blades with an oily rag coats them with a layer of oil for added rust protection.



3.Adjusting

Tweak the pivot bolt to increase or decrease the friction. The tool should always spring open as soon as the lock is released.



4.Oiling

Put a few drops of Bahco Eco-Lube 100 onto the blade and let them soak towards the bolt.

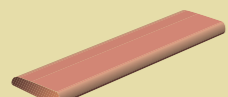


2.Sharpening Secateurs

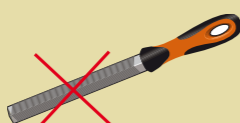
Use a Tungsten-carbide sharpener to keep the blade razor sharp during the day.



Use a coarse stone to take away notches and a fine grained stone to finish the cutting edge.



Important: never use a file to sharpen your blade.



Hold the secateur as shown and stroke the blade 5 times in the direction of the arrows

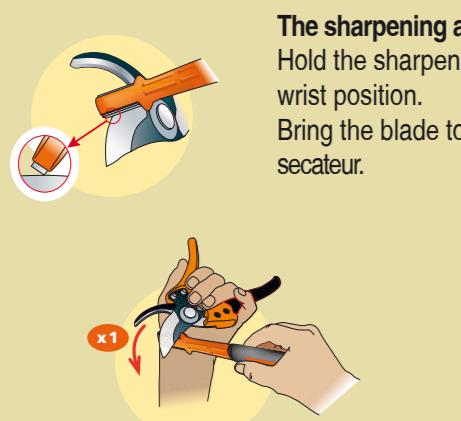
The stroke

Start at the base of the cutting edge and stroke outwards and off the tip of the blade. Apply light pressure. Never saw or rub.



A. Sharpen

Work on the honing angle with 5 strokes.



B. Deburr

Remove burrs with one light stroke on the back side. Keep sharpener or stone almost flat or with a slight angle of 10 degrees.

The sharpening angle

Hold the sharpener or the stone in a natural and comfortable wrist position. Bring the blade to the sharpener and control the angle by tilting the secateur.

GOOD



BAD



C. Keep the curve

The curve of the blades is important. It makes cutting easier by causing a slicing effect. If your blade becomes flat or uneven, consider replacing it with a new one.

"If you want to design a professional secateur, first talk to someone who uses one to earn a living!"

During the development of a secateur, our engineers go into the vineyards and orchards of the world to discuss and test their ideas with professional users. What interests them more are the ideas and experiences of the men and women who work day-after-day trimming and nurturing plants.

The slicing cut: the key to top performance

The four benefits of the Bahco slicing cut:

1. Less cutting force required
2. Less damage to the plant; clean cuts
3. Less wear = longer tool life
4. Less broken blades

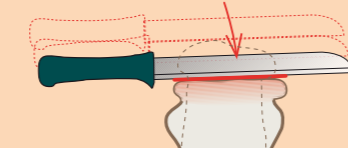


How it works

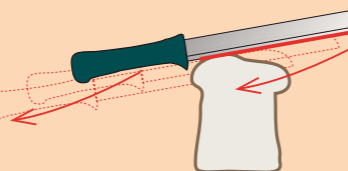
The sharp upward curve of the blade causes the leading edge to "slice" as it cuts into wood. The off-centered pivot bolt doubles this slicing motion increasing the length of the blade which is used for cutting.

Why it works

Imagine cutting a loaf of bread. No matter how sharp the blade, if you attempt to cut without slicing, the bread compresses and becomes harder to cut, therefore requiring more pressure which damages the loaf beyond repair.



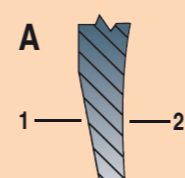
Bread and live wood are similar in that they can both be cut more efficiently if a slicing motion is added to the downward pressure.



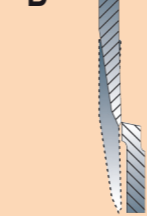
The grinding edge

Four separate grinding operations are performed (Drawing A)

- 1- **Main bevel**, the cutting area of the blade is tapered to a point
- 2- **Cavity**, a shallow hollow is ground into the inner face of the blade
- 3- **Second bevel**, the edge is polished to a razor sharp point
- 4- **Back bevel**, an additional honing angle is ground on the inside edge



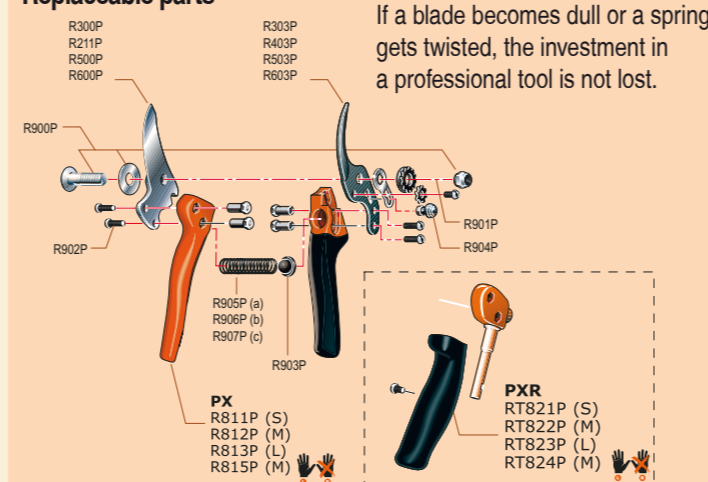
B



Reduced friction and sticking (Drawing B)

Due to the hollow inner face, the blade only touches the counterblade at the point of cutting. This reduces friction and the risk of sticking and increases the performance of the tool.

Replaceable parts



If a blade becomes dull or a spring gets twisted, the investment in a professional tool is not lost.

The ability to replace just a worn part is a money-saving feature that can extend the life of the tool.

To help you choose the correct replacement part, detailed information including part codes are available on the back of the packaging.



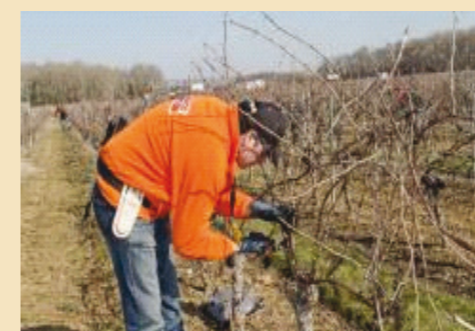
"Why does Bahco make different types of secateurs?"

All Bahco secateurs guarantee a clean cut with maximum efficiency. They can all be used to cut any type of plant – so why are there so many types?

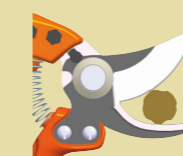
Professional use

One main reason is that Bahco secateurs are designed for use by people who make between 5,000 and 12,000 pruning cuts per day.

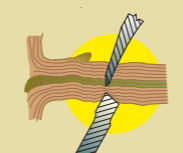
In this type of professional work environment a small improvement in tool efficiency can save an enormous amount of hand strain and fatigue.



BYPASS secateurs: for cutting live and green wood



As with the blade, the counterblade also presses into the wood



The wastewood may be damaged



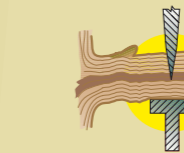
But the cut itself is clean and flat

Bypass secateurs are used for cuts that affect the health of the plant. The bypass cutting head owes its name to the fact that the cutting blade "passes-by" the counterblade in a scissor action. Bahco bypass secateurs slice through the wood as they cut it. This motion requires less force than a straight cut, and causes less compression damage to the wood.

ANVIL secateurs: for cutting mature and dry wood



As the narrow blade is forced through the wood



The broad "anvil" spreads the load and support the branch



Until the cut is complete

Anvil secateurs are used where cleanliness of cut is not as important as removal.

The blade of the cutting head is narrower and sharper than that of the bypass. When cutting mature and dry wood, the blade must be forced through the wood with greater pressure. The "anvil" supports the branch and spreads the pressure to reduce damage.

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CHOOSE THE CORRECT
SECATEURS
FOR YOUR NEEDS

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“Which secateur is best for which job?”

To satisfy the broadening spectrum of our end-users, Bahco offers an extended range of secateurs with features and cutting capacities relevant to specific tasks.

New materials and manufacturing techniques have enabled us to design many new tools which exploit the advantages of Hi-tech materials.

The result of this long term development is the broadest range of top quality professional tools in high performance steel and materials.

Application environment



Viticulture

- Work at waist-height or lower
- High manoeuvrability for fast work
- Free hand required to clear cuttings
- Precision cut
- Good secateur adds market value to the vines



Pomology

- Work mostly above waist-height
- Lightweight tools preferred
- Must manoeuvre between close branches
- Many cuts on one tree
- Good secateur adds market value to the trees



Landscape

- Very robust tools required
- Frequent overgrown plants and tough wood
- Secateur carried in holster during other activities
- Good secateur adds market value to the plant



Garden

- Discerning gardeners to occasional users



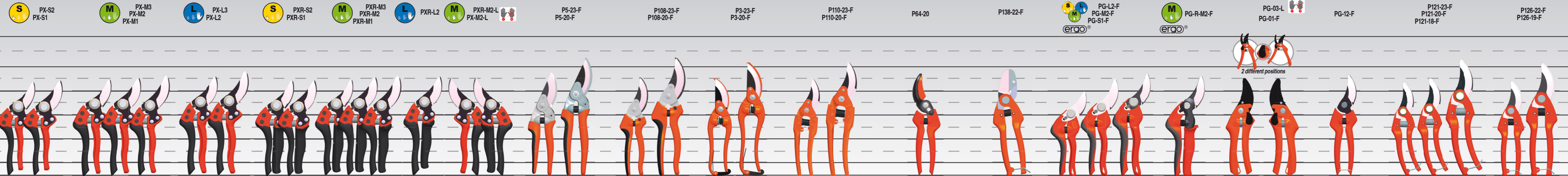
Professional Secateurs - The only true ergonomic secateur!



Professional Secateurs

Garden Secateurs

Inch 0 1 2 3 4 5 6 7 8 9 10
cm 0 5 10 15 20 25



What makes the PX and PXR ergonomic?

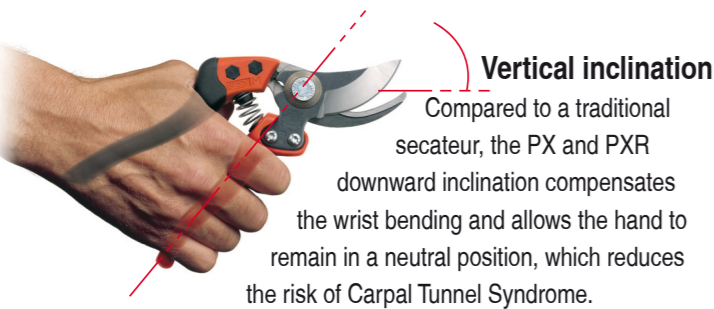
FEATURES

- Vertical and lateral inclinations
- Shape of the handles
- Elastomer coating on upper handles
- Choice of cutting head
- Choice of spring
- Hand measuring system



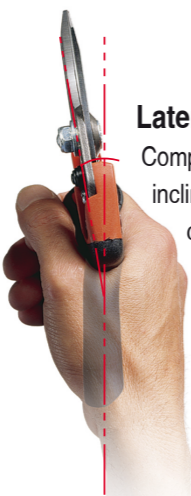
BENEFITS

- Keeps your wrist in a neutral position
- Provides comfort
- Helps to spread pressure evenly
- Provides the right cutting head for each job
- Adapts the secateur to the power of your hand
- Guides you to find the best secateur for you



Vertical inclination

Compared to a traditional secateur, the PX and PXR downward inclination compensates the wrist bending and allows the hand to remain in a neutral position, which reduces the risk of Carpal Tunnel Syndrome.










Lateral inclination

Compared to a traditional secateur, the PX and PXR inclination to the left (for right-handed secateurs) compensates the wrist bending and allows the hand to remain in a neutral position, which improves pressure capacity to be applied on handles and avoids M.S.D. (Musculo Skeletal Disorders).

The modular system of the PX and PXR ergonomic secateur not only allows you to choose the handle that fits the size of your hand, but also by choosing the size of the cutting head you get the right capacity of cut adapted to the task to be performed.

PX		n°1	Cutting capacity 15mm 1/2"	n°2	Cutting capacity 20mm 3/4"	n°3	Cutting capacity 30mm 1 1/4"
PX-S	Fixed handle, small	PX-S1		PX-S2			
PX-M	Fixed handle, medium	PX-M1		PX-M2			PX-M3
PX-M-L	Fixed handle, medium - left handed			PX-M2-L			
PX-L	Fixed handle, large			PX-L2			PX-L3
PXR		n°1	Cutting capacity 15mm 1/2"	n°2	Cutting capacity 20mm 3/4"	n°3	Cutting capacity 30mm 1 1/4"
PXR-S	Rotating handle, small	PXR-S1		PXR-S2			
PXR-M	Rotating handle, medium	PXR-M1		PXR-M2			PXR-M3
PXR-M-L	Rotating handle, medium - left handed			PXR-M2-L			
PXR-L	Rotating handle, large			PXR-L2			

Features and areas of application of secateurs

Secateur Type		Description	Cutting head	Application environment						Cutting capacity					Spare parts	
*** Highly Recommended ** Recommended * Acceptable										12 mm 1/2"	15 mm 1/2"	20 mm 3/4"	25 mm 1"	30 mm 1 1/4"		
Professional Secateur																
PX-Ergo	PX-S (range) PX-M (range) PX-L (range)	Heavy-duty ergonomic secateur with fixed handle	yes		***	***	***									yes
									yes							yes
																yes
PXR-Ergo	PXR-S (range) PXR-M (range) PXR-L (range)	Heavy-duty ergonomic secateur with rotating handle	yes		***	***	***									yes
									yes							yes
																yes
P5	P5-20-F P5-23-F	Robust, heavy-duty secateur with bi-material sleeve	yes		**	*	***									yes
																yes
P108	P108-20-F P108-23-F	Secateur with slim cutting head and soft grip on the upper part of the handle	yes		**	**	*									yes
																yes
P3	P3-20-F P3-23-F	Robust, heavy-duty secateur with solid forged steel handles	yes		**	*	***									yes
																yes
P110	P110-20-F P110-23-F	Traditional style secateur with slim cutting head and stamped steel handles	yes		**	***	*									yes
																yes
P64	P64-20	Light secateur designed for cut flower production	yes						***							yes
P138	P138-22-F	Anvil secateur designed for cutting mature and dry wood		yes	**	***	**									yes

Garden Secateur

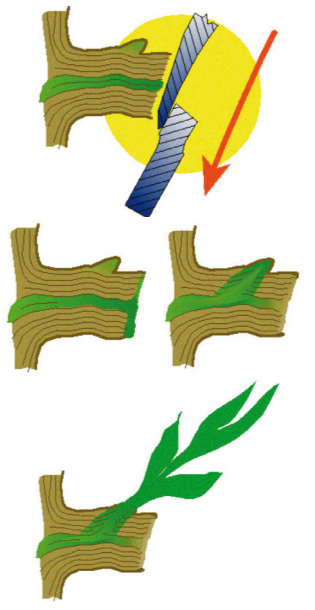
PG-Ergo	PG-S1-F PG-M2-F PG-L2-F PG-R-M2-F	Ergonomic secateur for demanding gardeners	yes		*	*	*	***							
PG	PG-01-F PG-03-L	Modern designed secateur for all year gardening	yes		*	*	*	***		yes					
PG-12	PG-12-F	Secateur designed for leisure gardening	yes					***							
P121	P121-18-F P121-20-F P121-23-F	Traditional style secateur for all year gardening	yes		**	**	*	***							
P126	P126-19-F P126-22-F	Traditional style secateur for leisure gardening	yes		*	*	*	***							

Pruning tips for gardeners

The importance of a good, clean cut

The response of a plant to a cut or wound is not unlike that of an animal. The plant bleeds a sap or resin from the wound which dries to form a protective shield.

The healing process continues long after the cut has been sealed and consumes considerable amounts of energy. Naturally, while energy is being diverted to heal wounds, it is no longer available to the plant to fuel normal growth. The importance of good clean pruning cuts can, therefore, never be over-stressed. Not only does a clean cut heal quickly, during the time the wound is open, the plant is exposed to less risk of damage from disease, fungus and weather.

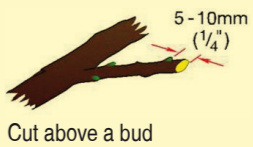


How?

A bevelled cut is needed



The secateur must be used with the cutting blade at the side of the remaining branch



It will improve the growth of the bud

About Bahco pruning & cutting tools

Professional end-users in viticulture, pomology, landscape and gardening have known for many years that Bahco is one of the most reliable names in tool making. Our broad range of pruning and cutting tools is recognized for efficiency, effectiveness, comfort, quality, design and ergonomics.

- Bahco pruning tools are a pleasure to use and promote successful pruning and caring for plants

- Features like precision ground blades and special coatings extend the life of our tools and guarantee both satisfaction and an optimum return on investment

- Correctly hardened and sharpened cutting edges reduce workload and produce clean cuts that enable plants to heal quickly and resist disease

These are just three of the many good reasons for selecting Bahco pruning and cutting tools, manufactured using top grade steel and materials.

