

## ► FIRST A MATTER OF SAFETY

Ergonomic design in a modular system enables you to build a secateur that fits perfectly into your hand. Choose your PX or PXR from the 11 available.

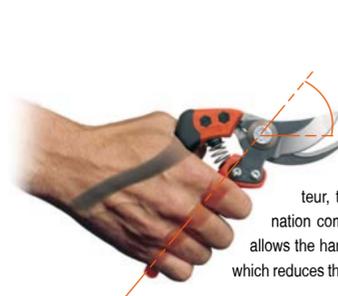
## WHAT MAKES THE PX AND PXR ERGONOMIC?

### FEATURES

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

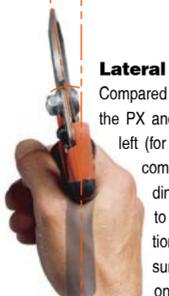
### BENEFITS

- 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).

## ► WORLDWIDE EXPERIENCE

### TESTED & APPROVED



For me the main advantages of the secateur are that it is easy on the wrist, very practical and more useful. I'm very happy with it. You have to try it to really feel the difference.  
**Mme Berthelot**  
Champagne Berthelot  
Champagne, FRA



Very good and comfortable tool with good sharpening. The angle is good, even though very different, causing less fatigue.  
**Rob Smith**  
Vineyard Manager  
Dry River Estate, Martinborough  
North Island NZ



This is finally a secateur that fits perfectly and cuts so smoothly that you can work all day long without any fatigue.  
**Kerstin Buhmann**  
Wilhelm Ley Baumschulen  
Meckenheim, GER



It's such a simple tool. Parts are easier to put on than on competitors' tools. This is the only tool that comes with different size handles and it's made to fit your hands. I am not as tired at the end of the day and I don't have to waste so much time replacing parts.  
**Ulises Valdez**  
Valdez & Sons Vineyard Management  
Sonoma County, USA



PX & PXR secateurs are very good tools: less effort and a clean cut!  
**Alberto Benetti**  
Azienda Agricola Benetti  
Oltrepò Pavese, ITA



The inclination brings better efficiency during work, less effort for the cut and less fatigue in the wrist and arm, hence a greater productivity. The handles have a comfortable grip and are pleasant to work with.  
**Albert Valdosa**  
S.A.T. La Costa de Valdosa  
Penedès (Avinyonet del Penedès)  
Barcelona ESP



The ergonomic design and the rotating handle feel like an extension of my hand. This results in less fatigue and pain in the arm and hand.  
**Brian Piott**  
Agricultural Technician Viticulture  
University of Guelph  
Ontario Niagara, CAN



Pruning has not changed much, but people suffer less from injuries to the wrist which makes pruning a lot easier than it has been in the past.  
**Jürgen Sledsens**  
Boonkwekerij Van den Berk  
Noord Brabant, NTL



Felt that the angles of the cutting allowed me to access to the most difficult cuts on the vine.  
**Neil Barry**  
Moormick & Sons  
Hunter Valley, New South Wales, AUS



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**Jürgen Sledsens**  
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Noord Brabant, NTL

The design of the ergonomic secateur results from five years of scientific research and hundreds of users testing all over the world. The benefit of the design of the ergonomic secateurs can be felt in two major advantages for the end-users: less fatigue at the end of the day and a less painful, longer and more productive working life.

# ergo® PX & PXR professional



PRADINES®



### Bahco, Innovation and Ergonomics

Bahco stands alone at the forefront of ergonomic hand-tool design. Attention to the real concerns of users and their integration in the design team is at the core of our innovative approach to ergonomic tool development. Only Bahco has an 11-Point Program that includes intensive user testing and scientific analysis. Our aim is simple:

**Make tools that work with us - not against us.**

[www.bahco.com](http://www.bahco.com)



## RIGHT AND LEFT HANDED THE ONLY ERGONOMIC SECATEUR

MORE COMFORT / MORE EFFICIENCY / MORE CUTTING POWER



## ► PX TYPE

### Fixed handle ergonomic secateur

The most innovative secateur design in the world. Ergonomic design in a modular system that enables you to build a secateur that fits perfectly into your hand.



## ► PXR TYPE

### Rotating handle ergonomic secateur

Same head and palm handle as the PX, but with a comfortable, elastomer coated rotating handle. PXR feels like part of your hand and cuts with optimal accuracy and ease.



## 100% MODULARITY

All spare parts available

### Right handed handles



**PX-S**  
Fixed handle  
Small size



N° 1 Small cutting head  
(Cut. cap. 15 mm - 5/8")



Ideal for end of season, clearing of vines from training wires and green pruning.  
Ergo® tip: highly recommended for users who are already suffering from aches and pains in their hand or arm.

Ø 15 mm (5/8")

**PX-M**  
Fixed handle  
Medium size



N° 2 Medium cutting head  
(Cut. cap. 20 mm - 3/4")



Ideal for most popular training methods in vineyards of up to 10 years of age.  
Ergo® tip: recommended for users who do not feel any pain yet, but who wish to avoid it.

Ø 20 mm (3/4")

**PX-L**  
Fixed handle  
Large size



N° 3 Large cutting head  
(Cut. cap. 30 mm - 1 1/4")



Ideal for most popular training methods in vineyards of up to 10 years old.  
Ergo® tip: not recommended for users who already suffer from pains in the hand or arm. It is then advisable to use a lopper or a pruning saw when cutting large diameters.

Ø 30 mm (1 1/4")

**PXR-S**  
Rotating handle  
Small size



N° 3 Large cutting head  
(Cut. cap. 30 mm - 1 1/4")



**PXR-M**  
Rotating handle  
Medium size



N° 2 Medium cutting head  
(Cut. cap. 20 mm - 3/4")



### Left handed handles



**PX-M2-L**  
Fixed handle  
Medium size for left handle



N° 2 Medium cutting head  
(Cut. cap. 20 mm - 3/4")



Ideal for end of season, clearing of vines from training wires and green pruning.  
Ergo® tip: highly recommended for users who are already suffering from aches and pains in their hand or arm.

Ø 20 mm (3/4")

**PXR-M2-L**  
Rotating handle  
Medium size for left handle



N° 2 Medium cutting head  
(Cut. cap. 20 mm - 3/4")



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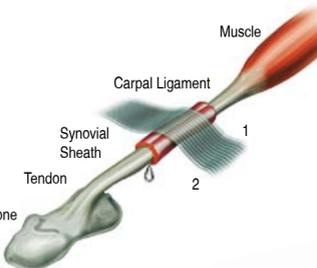
## ► MEDICAL APPROACH

### Work related illnesses

CTD: Cumulative Trauma Disorder  
RSI: Repetitive Strain Injury  
OOI: Occupational Overuse Injuries

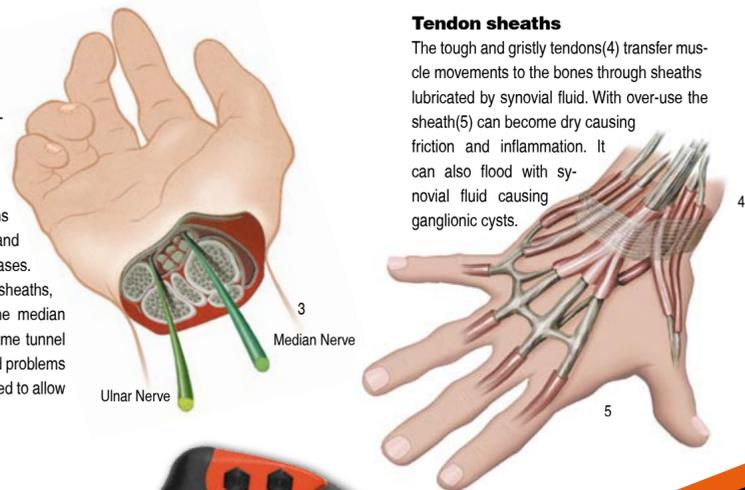
### The Carpal ligament

The Carpal ligament(1) is a band of tough tissue that encircles the wrist. The finger and thumb tendons pass through lubricated sheaths(2) beneath this flexible protective cover.



### Carpal Tunnel Syndrome

When the hand is opened and closed in the relaxed neutral position the tendons slide easily through the sheaths at the wrist. As soon as the hand is angled, however, the tendons are squashed into a smaller space and the risk of friction dramatically increases. When friction inflames the tendon sheaths, they swell and put pressure on the median nerve(3) which runs through the same tunnel space. This, in turn, causes pain and problems in the hand itself. Rest is then required to allow the initial inflammation to heal.

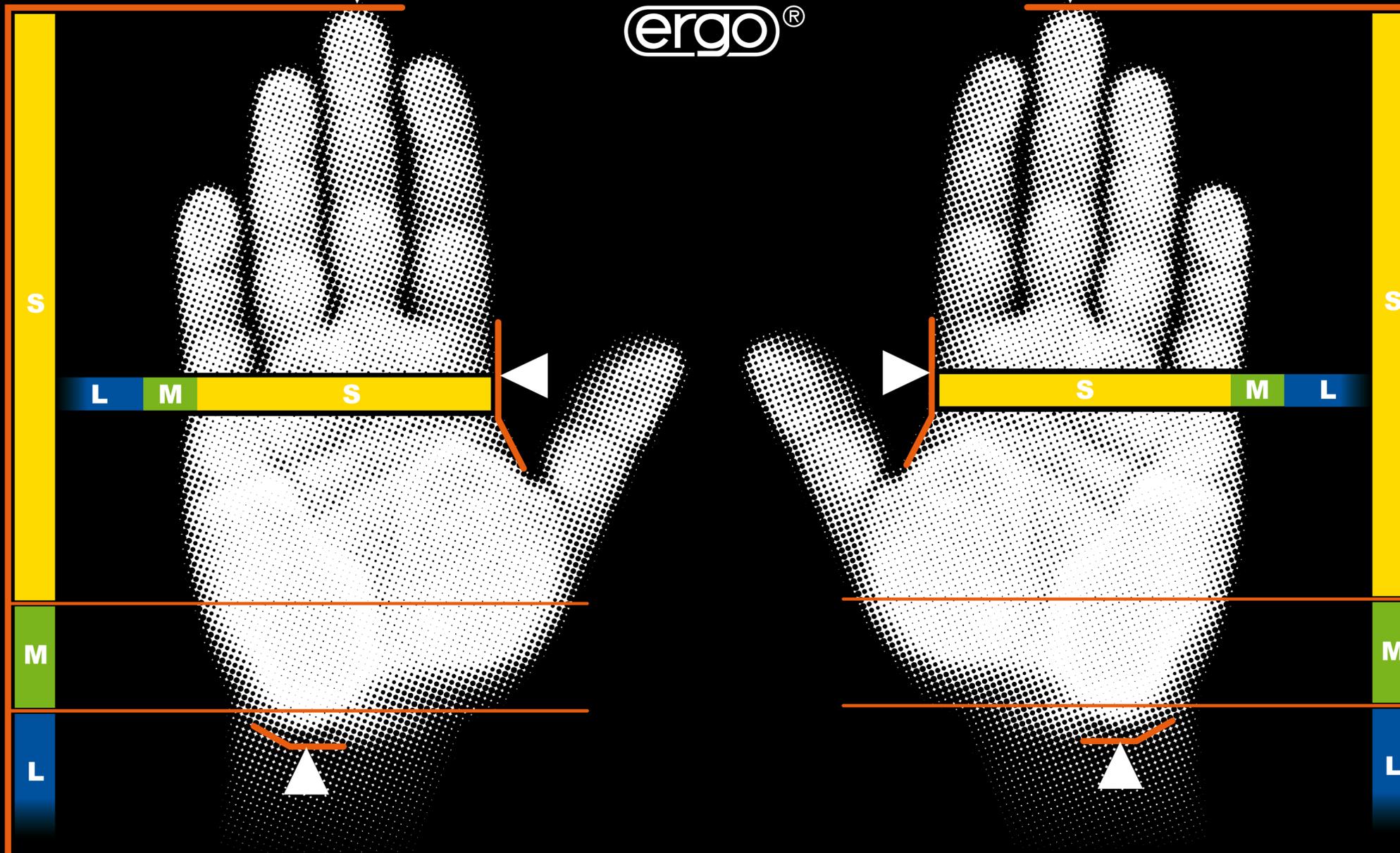


### Tendon sheaths

The tough and gristly tendons(4) transfer muscle movements to the bones through sheaths lubricated by synovial fluid. With over-use the sheath(5) can become dry causing friction and inflammation. It can also flood with synovial fluid causing ganglionic cysts.

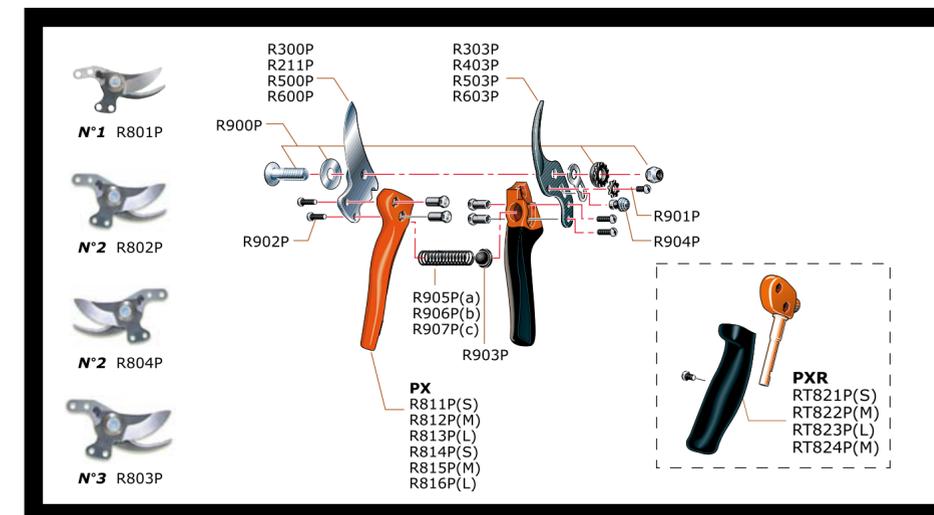
The three conditions listed above are various types of work related musculoskeletal disorders. These disorders result in many more specific conditions such as: tenosynovitis, tendonitis, epicondylitis (tennis elbow) and the most frequently reported of all disorders, Carpal tunnel syndrome. Carpal tunnel syndrome results from damage to the median nerve at the wrist, this tends to disrupt the functioning of some of the 17,000 pressure sensitive nerve endings in the hand. As the hand is repeatedly opened and closed, the tendons that work the fingers can rub against and inflame the sheaths through which the nerves pass. This causes them to swell, which creates pressure within the confined tunnel space in the wrist. The result is a loss of hand function (numbness, tingling and pain). The base of the thumb and index finger, the mid finger and parts of the ring finger can lose the ability to grasp, hold and manipulate. Specialized jobs, repetitive tasks and excessive forces combine with poor posture to make these problems a particular risk of the modern, high production workplace. The situation is made worse by the fact that not enough rest can be taken to allow the body to properly recover.

## HAND MEASURING GUIDE CHOOSE A SECATEUR TO SUIT YOU



## ► PRODUCT OVERVIEW PX & PXR RANGE

Product code	EAN code	Package qty	Cutting capacity in mm	Weight in g	Sizes/length	Spare parts	Patent
<b>SECATEURS</b>							
PX-S1	7311518233785	2	15	205	S	✓	US. Pat. N 5,950,316 and Intl N 057083
PX-M1	7311518233815	2	15	215	M	✓	US. Pat. N 5,950,316 and Intl N 057083
PX-M2	7311518233822	2	20	227	M	✓	US. Pat. N 5,950,316 and Intl N 057083
PX-M3	7311518233839	2	30	237	M	✓	US. Pat. N 5,950,316 and Intl N 057083
PX-M2-L	7311518240714	2	20	227	M	✓	US. Pat. N 5,950,316 and Intl N 057083
PX-L2	7311518233853	2	20	247	L	✓	US. Pat. N 5,950,316 and Intl N 057083
PXR-S1	7311518240677	2	15	269	S	✓	US. Pat. N 5,950,316 and Intl N 057083
PXR-M1	7311518233877	2	15	277	M	✓	US. Pat. N 5,950,316 and Intl N 057083
PXR-M2	7311518233884	2	20	287	M	✓	US. Pat. N 5,950,316 and Intl N 057083
PXR-M3	7311518233891	2	30	298	M	✓	US. Pat. N 5,950,316 and Intl N 057083
PXR-M2-L	7311518240738	2	20	287	M	✓	US. Pat. N 5,950,316 and Intl N 057083



Bahco ergo tools combat these tendencies in a direct way, by reducing the effort and stress of repetitive industrial tasks and, where possible, improving posture.

