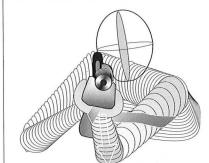
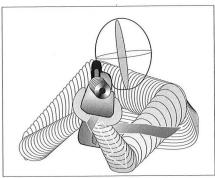


The left elbow can be placed directly under of the line of the rifle is therefore recomthe rifle. This usually causes a tendency for the rifle to fall towards the face, because the after the right hand is taken off it stays pull of the sling works in this direction if the right hand and head are lifted off.

A slight offset of the left elbow to the left



mended. The rifle now recoils vertically and pointing at the target. Here it's a matter of millimetres, the elbow can be moved using the right hand.



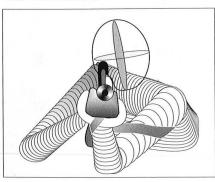
If the rifle is lying too far inside the elbow, it will recoil high and to the right. This problem is often encountered because the arm drops during a series and in so doing, pushes the position to the right (from the shooter's viewpoint).



Fastening the sling keeper transfers the pull of the sling to the shooting jacket. The stretch marks around the shoulder are signs of the way the force is working on the material.

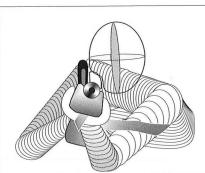
head has to be bent over to get to the sight position.

sions and sensations.



Here, the forearm, stock, barrel and Slight canting of the rifle and sideways offset buttplate are almost in a vertical line. The of the buttplate permit a more natural head further increased, such tension changes

This delivers a clean recoil, the shooter finds the rifle. Variable pressure in the shoulder or tered in training, but under the pressure of it easier to analyse and organise his impres- in the trigger hand will now make bigger dif- competition they easily lead to a loss of conferences to the recoil direction.



The position of the left arm is hard to determine for an observer, even an

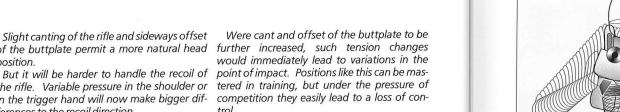
experienced coach. Because the jacket pulls across the shoulders, the sleeve creases and the sling squashes everything together, meaning that observation doesn't reveal much that is exact.

The shooter on the other hand, does have a clear idea of the tensions and the balance, what he lacks is pictorial feedback. Only a mirror (or video monitor) allow him to gain a perspective.

The solution for this dilemma lies in discussion. The observer describes his impressions. The shooter explains

where he feels his strengths and weaknesses lie. Dialogue of this sort offers a combined assessment. Errors and deficits in the position can be eliminated step by step.

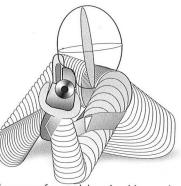
see how the muzzle reacts...



. Сонтроноров и порти и порти



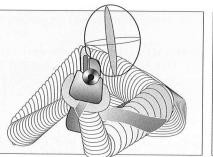




Gaby reaches a long way forward, her shoulders end up almost parallel to the line of fire. The sling is fastened high on the upper arm. The head is almost squashed between the shoulder and the stock.

The tensions are high in this position. The recoil is good in relation to the

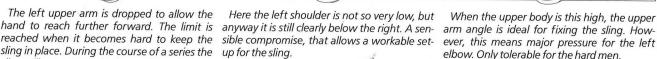
small body mass. The position appears extremely uncomfortable (though physical flexibility helps). Thank God it only has to last for twenty shots...

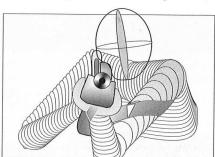


sling in place. During the course of a series the up for the sling. sling will anyway need to be readjusted.

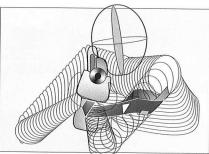
fastened, the more securely the recoil movement can be controlled.

The left upper arm is dropped to allow the Here the left shoulder is not so very low, but



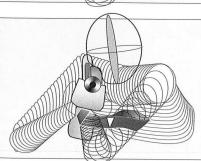


When the upper body is this high, the upper elbow. Only tolerable for the hard men.



The higher the sling can be fixed on the upper arm, the better it works for carrying the weight of the rifle.

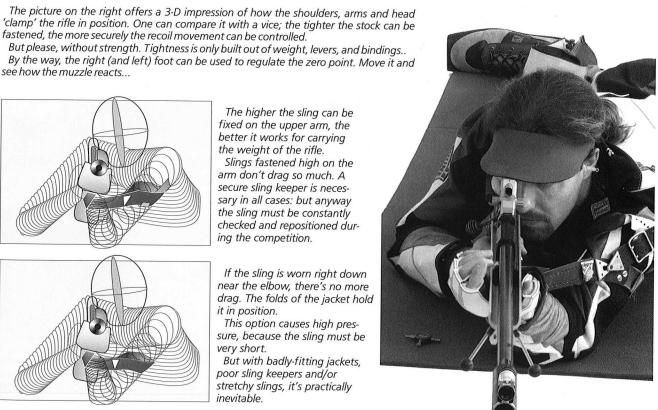
Slings fastened high on the arm don't drag so much. A secure sling keeper is necessary in all cases: but anyway the sling must be constantly checked and repositioned during the competition.



If the sling is worn right down near the elbow, there's no more drag. The folds of the jacket hold it in position.

This option causes high pressure, because the sling must be very short.

But with badly-fitting jackets, poor sling keepers and/or stretchy slings, it's practically inevitable.





Slings are the causes of a lot of difficulties in prone and kneeling:

- They can stretch during the course of a series because the leather has softened over time. The muzzle drops a fraction after every shot, you are constantly having to make sight adjustments.
- Soft leather and poorly constructed mountings may permit the rifle to bounce off the sling as the shot breaks.
- Wrongly placed buckles and attachments exert pressure on the wrist and touch the stock.
- Poor fastenings on the upper arm and the jacket permit the sling to
- If the shooter doesn't know, or know how to use, the proper function of the sling, force will be necessary to get the rifle to point at

- These problems lead in general to pain and uncertainty

To get a grip on this mess you first need to have a sensible sling. It must then be adjusted to suit your anatomy and optimally fastened. Many experiments will be necessary before you find satisfactory solutions.

On this page we have pulled together the basic rules for using the sling. Though you must be clear that the combination of position, jacket and sling type affords extremely individual solutions. So you'll only reach your imagined ideal by way of a lot of systematic experimentation. You should only allow yourself to feel satisfied when:

- Nothing drags any more.
- Nothing causes heavy pressure or pain.
- No visible pulse is seen down the sights when in position.
- The rifle drops back exactly onto aim after the shot.
- The muzzle jump is vertical
- The position stays constant for 60 shots.





A lower front-stock helps people with short arms. 'PUSH-UP' from MEC.

This buckle regulates the tightness of the sling on the upper arm. It also allows the sling to be fixed to pull more from the inside or from the outside of the arm, and so to reduce constriction of the brachial artery. This helps to eliminate pulse effects in the position.

The relatively good functionality shape. of the sling in this picture does mean that the upper arm loop can be too tightly set, causing unnecessary constriction of the upper arm. This in turn magnifies the pulse beats in the same way as a blood pressure measurement device would do. Also, be careful not to put too much strain on the buckle.



The triangle joins the upper arm loop to the front loop of the sling. It permits a square junction with the angled upper arm and so reduces creasing of the sling itself.

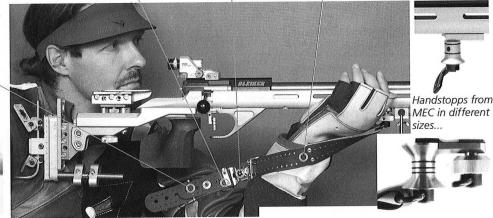
The fastening point of the triangle establishes a permanent dimension for the circumference of the upper arm loop according to your body

The fine adjustment can be freely altered, so you can in position.

corrections or if there isn't is easily removed.

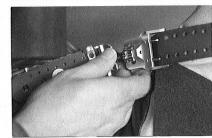
The buckle on the front loop should be located so as to make it easy to manage it comfortably when reach when in position and so that it doesn't place any pressure on the If you don't want to use fine wristbones. This avoids pain over long courses of fire.

enough space between sling On top of which, the metal parts and jacket, then the adjuster aren't allowed to touch the stock; this is one of the rules of the sport.





It is important to set up the sling the same way every time you get into position. Changes create a different distribution of balancing forces. A mark on the jacket (seam!) Helps to find the spot.



screw all the way out.



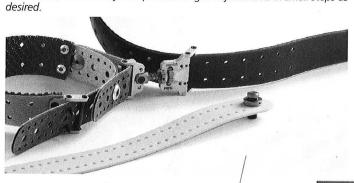
The fine adjustment allows for millimetric Adjusting the length of the front loop reguheight corrections. It can be employed when in lates the pull of the sling. If you want to get position. As all positions generally lose some your muzzle to point higher, you should height, you need to start with the adjusting shorten your sling and bring the handstop further back.



SET-UP POSSIBILITIES AND MECHANICS

The sling keeper fixes the height of the sling location on the upper arm and the position of the loop. Both factors have a considerable influence on the stability of the position in the course of a series. A high location is good, because it provides stability The organisation of the pull to the outside of the arm avoids pulse beat being transferred along the sling.

In this sling, a triangle fastener for the upper arm loop allows a perfect connection, the fine adjuster permits length adjustments in small steps as

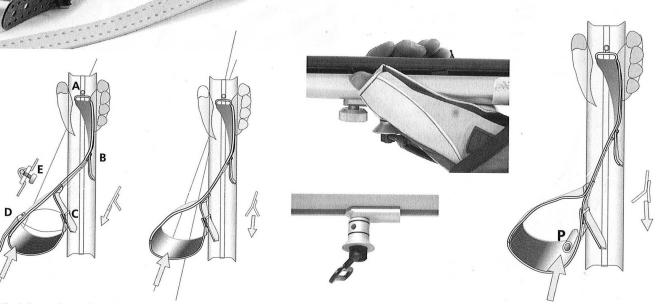


A fine adjustment system in close-up: by turning the screw in, it shortens the sling in any desired fine steps. This lifts the muzzle and on the target, it leads to raising the point of aim with millimetric precision.

This perspective also shows a perfect set-up of the upper arm loop. The triangle exactly fits the upper arm angle and prevents slippage in the course of a series.



MEC/centra SLING. Fine-adjustment and 'turn'. Only one way string from the 'processor' to the stopp. This string can be taken in two materials, fibre and leather. Some shooters believe in softer behavior of leather, others trust in the stability of plastics. A new connection from the sling to the stopp makes it easy to handle it.



The left arm from above; stock and hand are The upper arm loop is fixed to the jacket with left, the tension pulls from outside, on the complicated tool, which permits all manner of tricks. Possible adjustments are:

- A the contact point between hand and rifle
- B the length of the forward loop
- C-the length of the upper arm loop
- D the set-up on the upper arm

E - fine adjustment of the length

tant in prone shooting than changes to the fine adjuster (E). body position. The fine configuration of pulling force between upper arm and the palm of the contact point for the hand on the stock. brought to rest and aligned with the centre.

'transparent'. The sling shows itself to be a the sling keeper (D) and its diameter is estab-right it pulls from inside the arm. lished with the buckle (C). The tighter it is Where the brachial artery pulses (P), pressure around the arm. The loop is too tight if the transferred to the barrel. pulse becomes noticeable

The position of the handstop (A) establishes and an effective fastening mechanism.

which the mechanics work differently. On the how the pull of the sling is working.

closed, the less it can drag downwards or at this point often creates beats which are

If this happens, the best solutions are to ei-The length of the sling is determined by the ther move the upper arm loop down towards forward buckle (B). If it is shortened, the barrel the elbow, or to change the set-up to pull from becomes higher. Fine corrections during shoothe the outside as shown in the left-hand picture. Handy use of these variations is more importing can be comfortably managed using the But to achieve consistent pull from the outside the prerequisites are a good, well-fitting jacket

A glance at the Y of the upper arm loop the hand is the means by which the rifle is The three diagrams show sling set-ups in when you are in position, shows at any time