Solving the quadric equation 0 or 1 root 2 roots No interception Only one of the two root The two roots are above The two roots are not is above the target point above the target point the target point and and within the limits of and within the limits of within the limits of the the crown part the crown part crown part Check that the beam Keep this two roots Search the second point: does not intercept the the target point or an crown part limits interception with the crown part limits