



SM-321-HA UNWINDING, HOT AIR WELDING AND SQUARE CUTTING SYSTEM FOR THE AUTOMATIC PRODUCTION OF (TRUCK) COVERS AND PERGOLA'S.

S.M.R.E. developed SM-321-HA - a new hot air welding solution for the automatic production of (truck) covers in PVC with hot air welded reinforcing strips or omega profiles.

SM-321-HA is a high performance unwinding, welding and square cutting system that automatically carries out the following functions:

- Unwinding of the PVC sheet – loaded onto a transportation trolley – off of the roll
- Square cutting with pentagonal electric blade
- While the sheet is pulled through the machine 5 or more hot air welding heads – the distance of which is manually regulated on the machine bridge – hot air weld a reinforcing strip, an anti-vandalism strip or an omega profile to the fabric. The operator can choose the number (1, 2, 3, 4 or 5) of hot air welding heads that are to be employed. The maximum number of installable welding heads is 7.
- At set intervals, another hot air welding head welds a transversal reinforcing strip, which is cut off of the roll automatically after every welding cycle.
- Once the sheet is at the desired length, an electric cutting blade square cuts the fabric off of the roll.
- On the other side of machine, a completely welded and square cut PVC cover comes rolling out.

SM-321-HA is supplied with a fabric handling trolley which makes the movement of the heavy rolls through the production plant light and easy. The trolley – with a strong structure in aluminum and stainless steel – can be easily connected to the unwinding / welding / square cutting system. The PVC sheet is then processed directly off the roll.

When unwinding the PVC off the roll, an electronic light cell will automatically check the position of the PVC sheet. If the sheet is not perfectly aligned, the trolley on which the roll is loaded will automatically move left or right to correct the positioning of the roll and make sure the cutting is done in perfectly straight lines.

A user-friendly touch screen installed in the industrial computer box that is delivered with the machine assists the operator in choosing the following parameters:

- Length of each PVC sheet
- Number of sheets to be manufactured
- Distance between the transversal strips (distance between length strips is regulated manually)



The SM-321-HA can process a roll of up to 1.000 kg with a maximum length of 3,2 meter and a maximum outer diameter of 600 mm.

SM-321-HA is the ideal solution for manufacturers that produce straight PVC sheets for tarpaulins and pergola's, or reinforced PVC covers in general. This system takes up very limited space and has a competitive price. SM-321-HA saves time, energy and manpower, and greatly reduces discards.

SM-321-HA is strong, compact, fast, easy to use and very precise.

With SM-321-HA S.M.R.E. Engineering has created yet another solution for manufacturers of end products in PVC.

