

Automatic Tip Stretching Machine for Hat Bodies Type 3-227

(Edition 2017/08)



with

- automatic steam valve
- automatic axial rotation of the body
- wide range adjustable crown size
- with 3 pairs of conical moving rings

Hat bodies are made for reasons of production, in conical shape. The top radius of the cone is smaller or bigger, but in most cases too small for standard heads of different sizes. Therefore, the hat bodies are stretched in the top.

This operation is perfectly done by the **Automatic Tip Stretching Machine Type 3-227**. The upper crown is moving vertically up and down with high frequency. The 6 stretching fingers of the lower crown can be adjusted tall and wide. The upper crown can be adjusted vertically by approx. 15 mms.

During the operation cycle, the lower crown is lifted vertically upwards to the upper crown. During the first third of the tip stretching cycle the lower crown lifts another 10 mms upwards and remains in its final working position during the rest of the cycle. By a special system the crown expands during the tip stretching cycle. The 6 stretching fingers of the lower crown are expanded radially outwards.

After finishing the tip stretching cycle, the lower crown removes into the start position and start size. The size of the lower crown can be adjusted easily and quickly. During the whole tip stretching cycle, the body turns continually by a conical pair of rings, which are mounted into the machine. An automatic steam valve provides the

body with steam through the whole cycle and keeps it stretchable. Three working speeds - depending on the material - assure a short working interval (8, 10 or 12 seconds) and thus a high output.

After setting the body on the lower crown the machine is switched on with a two-hand power switch for security reasons. The machine closes, the steam valve opens the steam and the tip stretching cycle begins. Close before the end of the cycle, the lower crown goes downwards and opens the machine. After the cycle, an end switch stops the electric brake motor and finishes the cycle. The upper crown, driven by a second electric motor, remains running up and down.

With an emergency switch, mounted on the left side of the switch board, the machine can be stopped in every position of the stretching cycle.

There are 3 pairs of exchangeable conical rings - with diameters of 190 mms, 200 mms and 210 mms - included in delivery. They allow a quick adjustment of the machine to all sizes and shapes of hat bodies.

By the different possibilities of adjustment and by the combination of the single steps of the stretching cycle, an excellent stretching of the crown can be achieved in any requested way.

Technical Data:

Measurements		
Length	1160 mm	45,7 inch
Width	600 mm	23,6 inch
Height	1910 mm	75,2 inch
Seaworthy Case		
Length	2100 mm	82,7 inch
Width	800 mm	31,5 inch
Height	1210 mm	47,6 inch
Weight		
Gros	745 Kg	1642,44 lbs
Net	580 kg	1278,68 lbs
Drive Motor	0,75 kW	
Brake Motor	0,61 kW	
Capacity	about 500 hat bodies each 8 hours' shift, for fur, about 1000 hat bodies for wool. One worker operates 2	

