

# Bahner Plate Hardening Machine Type 5-213p

(Edition 2016)



Bahner

## General:

We manufacture one type of plate hardening machines:

### 1) Plate Hardening Machine 5/213 p, Two-Units

With automatic lifting-off device of the upper plates  
Pneumatically operated, and electronic timing from  
5 – 50 seconds

## General Design:

All plate hardening machines delivered by us are equipped with moving lower and upper plates. The hardening process is highly intensified by this kind of design. The lower plate at the front is running on hard rolls. With the standard design of the machine the lower plates are made of cast iron with a screwed-on brass-plate. It is heated directly with steam. The upper plate is made of light metal or wood. Upper and lower plate as well are covered with twill by the customer.

On the head hardening stand the woolen hat bodies are steamed on the crown and pre-hardened.

The hardening plates at the jiggling hinges are borne in extra wide pin bearings.

### 1) Plate Hardening Machine Two-Units, 5-213 p

With automatic, pneumatically operated lifting-off for the upper plates and with electronic timing from 0 – 120 seconds.

It is often regarded a disadvantage to open and to close the upper plate "OP"

of the plate hardening machine by hand. The plate hardening machine with automatic lifting-off for the upper plates gives the unique & uniform production result.

The lifting of the upper plate "OP" is done with the aid of a pneumatic cylinder over a lever arrangement. The degree of pressure can be adjusted and read on the downsituated adjustment wheel "AH".

The hardening time of 0 -120 seconds – separate for each hardening unit – is chosen as desired and is adjusted on the electronic timers "ZS" (upper part of the switch-box).

For putting the machine into operation, 3-phase alternating current of 220 Volt, 60 cycles or 380 Volt, 50 cycles, steam, and compressed air 6 bar, are required.

This design of the machine has the great advantage that the continual hard handling of the upper plates is avoided for the operator. The plate hardening machine, therefore, can generally be operated by women or men. The operator concentrates solely on the crossing, taking-in, and taking-out of the hat bodies to be hardened.

## Technical Data

	Hardening Machine For woolen hats with autom. Lifting for the upper Plates, 2-units	
<b>Measurements:</b>		
Length	2100 mm / 82,7 inch	
Width	1280 mm / 50,4 inch	
Height	1300 mm / 51,2 inch	
<b>Dimensions of Case</b>		
Seaworthy Packed:	2250 x 1450 x 1500 mm	
	88,6 x 57,1 x 59,1 inch	
Space Required:	2200 x 1700 mm	
	86,6 x 67,0 inch	
Weight net:	1475 lbs / 670 kg	
Weight, Seaworthy Packed:	1860 lbs / 843,7 kg	
Power Requirey:	Per operation	1,5 kW
Compressed Air Requirey (Estimate)	Per hour	appr. 5 Liters
		4-5 cubikmeter
Steam Requirey (Average)	Per hour	200 Liters
Output per hour and Unit		80 – 110 each
Output per Machine		160 - 220 each

