



OPERATOR'S MANUAL

AHCON MATCHMATIC 900



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Manufacturer's Information

Art. No.: 600 30 000

Type: AHCON Matchmatic 900

Use: Fully automatic seat optimizing, flat spot elimination and optimizing of tyre uniformity.

Max. Tyre size: 295/30x22

Min. Tyre size: 155/80x13

Field of Operation: To be used as an independent piece of equipment or as a built-in part of an AHCON Speed Line System.

Manufacturer: **AHCON WHEEL SERVICE EQUIPMENT**
Danmarksvej 25
DK - 8660 Skanderborg
+45 76152150
e-mail: ahcon@ahcon.dk

Distributor:



Function and Product Idea

How to optimize uniformity and lower force variations.



Tyre model

1. Tread area
2. Nylon 0° top protection layer
3. Steel belts
4. Strips
5. Casing
6. Inner liner
7. Apex
8. Strips
9. Side wall



Bead Seating Process:

During low speed rotation of the wheel, the two side rollers will put a pressure on the upper APEX (7) area of the tyre and hereby force the bead into an optimized seat on the rim.

Choose between 0-8-13-18 sec. cycles.



Flexing Process:

During high speed rotation of the wheel, the four upper 10° angled steel rollers will put a pressure to edges of the steel belt (3) and nylon layer (1) and hereby build up heat in the tread (1) area.

This process improves the shape of the tyre and optimizes the uniformity.

Choose between 0-30-60-120 sec. cycles.

WARNINGS !

Safety Precautions

AHCON Matchmatic 900 must only be used by trained personnel.

AHCON Matchmatic 900 must only be used for car tyres.

Tyre service should only be performed by persons trained properly.

AHCON disclaim all responsibility for failures occurring by working procedures, which do not comply with procedures recommended by AHCON and / or tyre and rim manufacturers (STRO).

Risks and Labelling



Pictograms and warning labels placed on the machine by the manufacturer must not be removed!

If warning labels are removed the responsibility of the manufacturer will be renounced.

Safety Precautions

Safety Distance

1 meter for the operator while machine is operating.

1 meter for the outsider.

No special precautions are needed.



Warranty

AHCON guarantees that the product will live up to the specifications at the time of delivery and will be faultless as regards materials and workmanship for a period of 24 months after the product has been invoiced to the end user.

Components and parts related to normal wear and tear are not included in the warranty.

AHCON will not be responsible for damages occurring by negligence, improper use, incorrect installation, etc.

All products and parts returned to AHCON for repair and replacement must be forwarded carriage paid.

Dimensions and Weight



Height: 1430 mm
Width: 620 mm
Length: 1160 mm

Weight net: 315 kg

Shipping Dimensions

Height: 1500 mm
Width: 800 mm
Length: 1200 mm

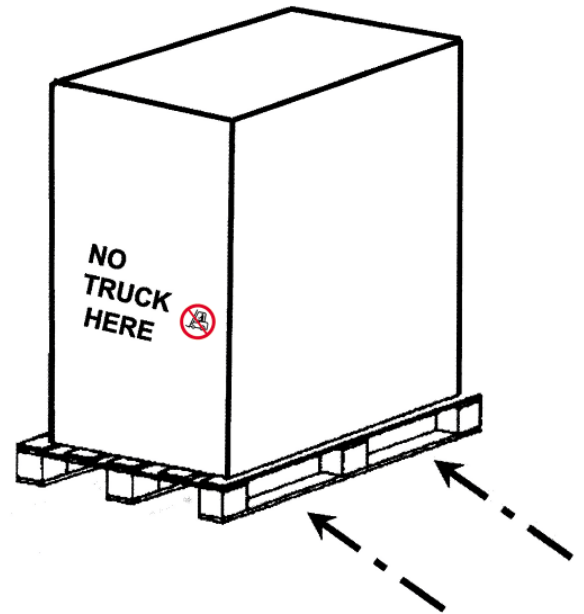
Shipping weight: 335 kg

Transport and Handling

This machine has to be transported with a pallet stacker or a fork-lift truck according to the below instructions.

KEEP A SAFETY DISTANCE OF MIN. 2 M WHEN THE FORK-LIFT TRUCK IS LOWERED !

Place the machine close to the place of use.
Remove the bolts holding the machine to the pallet.



Unpacking

Remove the external packing and check that the contents correspond to the order.

Place the machine on an even floor.

Because of heavy weight, the machine does not need to be fastened to the floor.

Connection

Compressed Air Connection



Compression pressure: 8 – 10 bar

Power Connection

3 Ph 380/400V+/- 10% 50 Hz.



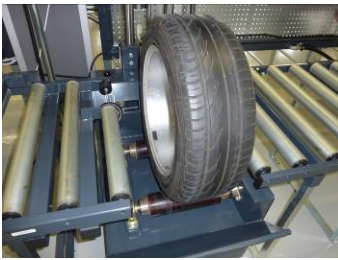
Machine terminal

OPERATION



Operating Panel

Adjust the operating pressure 5 – 6,5 bar.
According to tyre size and pressure.



Load wheel into the Matchmatic 900 by
placing the wheel on the rollers.
Max tyre pressure: 1,6 – 2,0 bar.



Adjust the side rollers, by pulling the pin
locker.



The rollers must be adjusted to 15 – 20 mm
from rim edge for correct performance.



Set timer for "**Bead Seat**" 0–8–13–18 sec.



Set timer for “**Flexing**” 0–30–60-120 sec.



Press “**Start**” to start operating.
Both processes will start after another.

1. Cycle “Bead Seat” as set on timer.
2. Cycle “Flexing” will follow automatically, as set on timer.



The processes can be stopped any time.
If you want to stop press “**Stop**”.



After running the processes the machine will stop and open automatically.

Remember to adjust tyre pressure, before balancing the wheel.

Noise

The noise level for this machine is higher than 70 dB.

Use approved ear protection.

Special Functions and Accessories

AHCON Matchmatic 900 can be used in connection with the AHCON Speed Line System.

Can be used together with:



Art. No. 900 40 011 Roller Table with rollers.



Art. No. 900 40 010 Roller Bridge for omitting use of the Matchmatic in the Speed Line System.



Standards for Built-in Parts

**Fastening Parts
Machine Elements
Air Accessories
Handles**

All the above parts are produced in strengths according to the **DIN, ISO, DS and BS standards in force.**

Maintenance

WARNING !

NOT to be cleaned with a pressure blower!



Maintain oil level! Type 32 hydraulic.

Repair

Do only use trained personnel for maintenance and repair of this machine.

WARNING !

The machine must not be connected to electric power and compressed air during maintenance and repair.

Chart

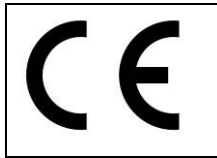
Require complete electric chart by contacting the manufacture.

See page 3.

Declaration of conformity

AHCON WHEEL SERVICE EQUIPMENT ApS.
Danmarksvej 25
DK-8660 Skanderborg

declares that the following product:



Type: AHCON Matchmatic 900

Art. No.: 600 30 000

Product No.:

Production year: 2010

has been produced in accordance with the Council's directives:

*2006/42/EU 17th of May 2006 - 2006/95/EU – EMC 2004/108/EU
Altered by the following:
98/37EEC*

has been produced in accordance with the following standards:

DS/EN 292-1 and DS/EN 292-2
DS/EN 294
DS/EN 811
EN 951-1
DS/EN 349

Date: 05.05.10

Name: Bo Møller

Signatur: 