



ALL IN ONE

PEELING / BUFFING / REGROOVING / EXTRUDER BUILDING

CNC controlled OTR (9 axis) peeling, buffing, extruder building and regrooving machine

18 Degree inclined main frame

A single separate dedicated robot system for peeling / buffing / regrooving functions

A single separate dedicated robot system for extruder building function



**AKR510REX
AKR630REX
CNC BUFFER**



	Minimum Tire Size	Maximum Tire Size
AKR 510REX	14,00 R 24"	50/65 R 51"
AKR 630REX	29,50 R 25"	59/80 R 63"

CNC CONTROLLED BUFFER

PEELING / BUFFING

CNC controlled OTR (4 axis) peeling, buffing machine

18 Degree inclined main frame

Hydraulic tire chucking, centering through interchangeable spacers

A single separate dedicated robot system for peeling/buffing functions



**AKR510C
CNC BUFFER**



	Minimum Tire Size	Maximum Tire Size
AKR 510C	14,00 R 24"	50/65R51"



**AKR250C
CNC BUFFER**

CNC controlled peeling/buffing functions

Central tire lifter for loading/unloading

Hydraulic tire chucking, centering through interchangeable

Optional
Precured tread application unit



	Minimum Tire Size	Maximum Tire Size
AKR 250C	14,00 R 24"	21,00 R 33"

SUPPLEMENTARY EQUIPMENT



**AKR273-274
WORK
STATION**



**AKR272M
WORK
STATION**



**AKR261-270-271
ENVELOPE
SPREADER**



**AKR108
DUST COLLECTION
CYCLONE**



TECHNICAL FEATURES

Certified P series material suitable for pressure vessels

Bayonet door closure systems

Hydraulic door opening and locking mechanism

Precured or Orbitread system automation control

Advanced PLC software able to control time, temperature, pressure, DPC functions (precured) automatically

Manufactured at state-of-the-art manufacturing facilities

Advanced safety features with available certification of 2014 - 68 - EU CE, ASME, EAC

10 year safety guarantee as part of CE/ASME



HIGHEST SAFETY STANDARDS



DESCRIPTIONS	Inner Diameter	Length	Capacity	Heating System	Working Pressure	Max. Working Temperature	Tire Curing
AKR 881E	2300 mm/90"	3900 mm/153"	29,50 R 25 x 4 Tires	Electrical / Indirect Steam	7 Bar/100 psi	120 °C	J Hook
AKR 881	2300 mm/90"	4900 mm/193"	29,50 R 25 x 6 Tires	Electrical / Indirect Steam	7 Bar/100 psi	170 °C	Console
AKR 384	3100 mm/122"	4000 mm/158"	27,00 R 48 x 4 Tires	Direct / Indirect Steam	7 Bar/100 psi	170 °C	Console
AKR 434	3500 mm/138"	5000 mm/197"	36,00 R 51 x 4 Tires	Direct / Indirect Steam	7 Bar/100 psi	170 °C	Console
AKR 389	3900 mm/153"	5500 mm/216"	40,00 R 57 x 4 Tires	Direct / Indirect Steam	7 Bar/100 psi	170 °C	Console
AKR 337	4600 mm/181"	3500 mm/138"	59/80 R63 x 2 Tires	Direct / Indirect Steam	7 Bar/100 psi	170 °C	Console



PRODUCT CATALOGUE

TRUCK & OTR TIRE RETREADING MACHINERY

www.akarmak.com



FACTORY

ABOUT US

Akarmak, founded in 1990, manufactures machinery for the Tire Retreading Industry. We have a complete machinery portfolio, including high capacity CNC Controlled Buffers and Autoclaves, that enables us to build a complete tire retreading plant for Truck and OTR [Off-The-Road] Groups in precured and orbitread retreading. Akarmak has proven quality standards in its products, and provides CE certificates with other required certifications and its machinery.

Our autoclaves meet with international quality standards, and we work with internationally well known certification agencies such as Bureau Veritas, TÜV, Lloyds, and Hartford Steam Boilers to certify our autoclaves. With our autoclaves, we are able to offer the following certifications and standards:

- Pressure Equipment Directive 2014 - 68 - EU
- ASME SEC VIII Div.1
- EAC
- DIN EN 15085-2 CL 1
- DIN EN ISO 3834-2
- Any other certificates that may be required by other authorities

For truck and OTR tires retreading, we offer complete turn-key plant machinery including buffers, autoclaves, building machines, work stations, tire lifter, inspection spreader, envelope spreader, and dust collection cyclone. Hence, Akarmak offers its customers one-stop-shop solutions in their retreading equipment needs.

We offer CE certificates and world wide warranty with our equipment.

QUICK FACTS

- State of the art machinery manufacturing facility
- Professional management team with experience and knowledge
- Highly-skilled workforce (incl. certified welders)
- High machining capacity and advanced design capabilities
- Conveniently located in the hub city of Eskişehir (close to ports and major cities such as Istanbul, Ankara, Bursa)
- ISO 9001 - 2015 certified and providing CE Certification with its own equipment
- Well executed future growth plans
- Export and growth oriented international company
- High degree of flexibility and access to numerous subcontractor companies allow Akar to manage high-volume projects

Please do not hesitate to contact us, if you have any questions. You can also visit us at www.akarmak.com.tr to get more information about our company and our products. We would like to thank you for your interest in our products and look forward to realizing tire retreading projects with you.

LOCATION

Eskişehir, Turkey Conveniently located close to ports and major cities.

FACTORY

27.000 m² factory space in Eskişehir Industrial Zone

QUALITY

ISO 9001-2015 certified with advanced engineering capabilities

ASME, CE, EAC

DIN EN 15085-2 CL 1, DIN EN ISO 3834-2, AD2000



Truck Tire Group

AKR550

CUSHION GUM EXTRUDER WITH TREAD BUILDER

TECHNICAL FEATURES

Suitable for truck tire cushion gum building up to 445/65 R 22.5" size tires

Extrusion tire width range: 140 - 450 mm (5,5"-17,5")

Capacity: 3-5 min/tire (including building) Standard wingforms: 3 standard sets

Extruder Unit: Screw and barrel system

TECHNICAL SPECIFICATIONS

Tire Range: 7,50 R 15 - 12,00 R 24
Minimum Tire Diameter: 700 mm (27,5")
Maximum Tire Diameter: 1,250 mm (49,2")
Maximum Tire Width: 450 mm (17,7")



AKR240C

CNC BUFFER

TECHNICAL FEATURES

Fully computerized CNC controlled buffing machine with bead plates and automatic sidewall brushing

Programmable tire buffing recipes

Suitable for truck tires up to 445/65 R 22,5" and 495/45 R 22,5"

Buffing capability of BIAS and Radial tires

TECHNICAL SPECIFICATIONS

Buffing Range: 7,50 R 15 - 12,00 R 24
Minimum Tire Diameter: 700 mm (27,5")
Maximum Tire Diameter: 1,250 mm (49,2")
Maximum Tire Width: 500 mm (19,6")



AKR240HCX

CNC BUFFER

TECHNICAL FEATURES

Fully computerized CNC controlled buffing machine with expandable hub and rim system

Programmable tire buffing recipes

Suitable for truck tires up to 445/65 R 22,5" and 495/45 R 22,5"

Buffing capability of BIAS and Radial tires

TECHNICAL SPECIFICATIONS

Buffing Range: 7,50 R 15 - 12,00 R 24
Minimum Tire Diameter: 700 mm (27,5")
Maximum Tire Diameter: 1,250 mm (49,2")
Maximum Tire Width: 500 mm (19,6")



AKR240T

AUTOMATIC BUFFER

TECHNICAL FEATURES

Automatic PLC controlled buffing machine with bead plates

User friendly easy operation with 1:1 copy of templates

Suitable for truck tires up to 445/65 R 22,5" and 495/45 R 22,5"

Buffing capability of BIAS and Radial tires

TECHNICAL SPECIFICATIONS

Buffing Range: 7,50 R 15 - 12,00 R 24
Minimum Tire Diameter: 700 mm (27,5")
Maximum Tire Diameter: 1,250 mm (49,2")
Maximum Tire Width: 500 mm (19,6")



TRUCK TIRE AUTOCLAVES

TECHNICAL FEATURES

Fully computerized PLC controlled

Electrical heating system with efficient use

Preheating feature

Vacuum test function

Working pressure: 6 bar (90 psi)

Advanced safety features with available certification of 2014 - 68 - EU CE, ASME, EAC

10 year safety guarantee as part of CE/ASME



DESCRIPTIONS

Model	Capacity	Inner Diameter (mm)	Length (mm)	Heating System	Working Temperature
AKR 291	12 Tires	1600 mm / 63"	4500 mm / 177"	Electric	120 °C / 248 °F
AKR 293	16 Tires	1600 mm / 63"	6000 mm / 236"	Electric	120 °C / 248 °F
AKR 294	20 Tires	1600 mm / 63"	7500 mm / 295"	Electric	120 °C / 248 °F
AKR 297	24 Tires	1600 mm / 63"	9000 mm / 354"	Electric	120 °C / 248 °F

HIGHEST SAFETY STANDARDS



SUPPLEMENTARY EQUIPMENT

AKR172 BUILDER



AKR191 INSPECTION SPREADER



AKR108 DUST COLLECTION CYCLONE



AKR221 CUSHION GUM CUTTER



AKR233 TREAD PREPARATION TABLE



AKR241 ENVELOPE SPREADER



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