



# Equipment For Tyre Retreading

*Since 1953*

# *Our history starts in 1953*

CIMA Impianti was established in 1953 as a company manufacturing moulds for tyre retreading. In the after coming years it widened its range of products starting to manufacture also curing presses initially sold in the national market. During the 70's, with the introduction of tyres with radial casing, the first presses of the Radial Pneus series were developed and manufactured, the first and for many years the only ones conceived for this new type of tyres.

From that moment the process was started which brought CIMA Impianti to be introduced into the international markets, where it became the major manufacturer of "turn-key" plants for tyre retreading.

Thanks to the growing experience in this field and to the always deeper knowledge of the specific requirements of retreaders and of new tyre manufacturers, during the 20 years from 1980 to 2000 it designed and realized machines aimed at satisfying a wider and more demanding range of customers, setting up relationships based on mutual trust and cooperation with the biggest new tyre manufacturers, for which, during the years and thanks to the efficiency and flexibility shown, it became sole supplier of presses and moulds for tyre retreading.

Applying its big experience in the field of tyre retreading to the production of new tyres, CIMA Impianti realized during the 90's the first really innovative curing press for new tyres, for which it received a recognition inside the LIFE program of the European Community.

During the last 10 years, CIMA Impianti devoted itself to the constant improvement of its products in order to make them always compliant to the market evolution and anticipating often the new requirements which would have been requested only years later by the customers.

CIMA IMPIANTI also works for the steel industry sector where it developed considerable competence in developing, assembling and testing of plants for rod-mills and cutting-painting band machinery.

The premises cover an area of approx. 6000 square meters including factory and offices. In the same area, but with separate structures, also operate strategic sub-contractors.









The background image shows a large industrial curing press in a factory. The press is a complex machine with a blue base and yellow upper structure, featuring a platform and stairs. In the foreground, a large, dark tire is prominently displayed, partially obscuring the bottom of the press. The factory floor is concrete, and the ceiling is high with a complex steel truss system and industrial lighting.

# RP PRESSES

Mould cure has never been so automatic and safe. Our complete range of curing presses, together with our aluminium moulds, represent the perfect combination of quality and reliability for the best retreading results.

RP PRESSES peculiar radial closing system is still the simplest and fastest on the market, and easiest to maintain



# Equipment For

## Passenger, 4WD, Light Truck, Truck & Bus and Aircraft Tyre Retreading



Dimensions and specification shown are not binding and could be changed without notice by the manufacturer





# Retreading Passenger, 4WD, Truck & Bus and Aircraft Tyres

CMA IMPIANTI produces one of the widest ranges of fully automatic machines for the hot (mould cure) retreading technique, covering all sizes of tyres available on the market.

From 14" passenger up to 63" O.T.R., from a simple mould to a complete TURN-KEY plant, our customers can always find the appropriate solution for their retreading requirements.



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# **CI-MAXI 29 ( 2100 )**

## **CNC Buffing Peeling Grooving Machine for Truck tyres and small O.T.R. sizes**

Tyre holding group with steel plates (low pressure inflation), tyre drive by Brushless motor and hydraulic tyre support for easy load & unload

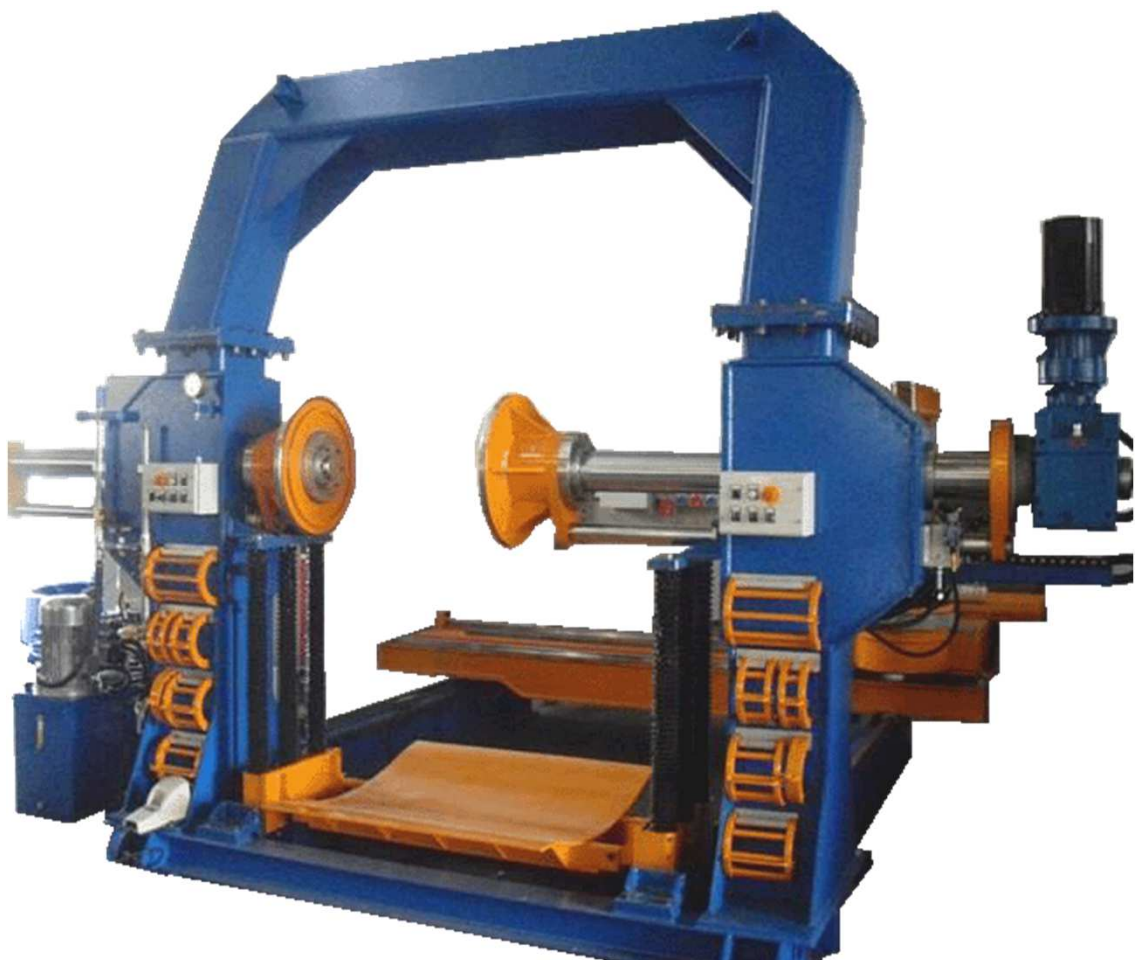
Data storage

Exclusive Touch Screen PC (with Lan, Ethernet, USB Port for NetCam)

NEW and reinforced exclusive inclined tyre holding frame design

5 axis tooling frame (3 positions Peeling / Buffing / Grooving) working with 3 axis during Peeling and Buffing and with 5 axis during Grooving

**Tyre sizes: from 19,5" to 33"**





# FCT 850 SIDEWALL VENEERING MACHINE

## FULLY AUTOMATIC OPERATION

The machine applies the sidewall veneer strip at the same time to both sides of the tyre.

The program allows to apply the strip in one or alternatively in two passes depending on the width of the sidewall of the tyre.

**For Passengers, 4WD, Light Trucks**



## SIDEWALL VENEERING MACHINE **FCT 1200**



Wrapping unit swings around the tyre to copy perfectly the tyre sidewall shape.

**For T.B.R. tyres.**

## TECHNICAL FEATURES

MODEL	MAX TYRE EXT. DIA (inch)	MAX AIR PRESSURE (bar)	EL. POWER INSTALLED (Kw)	WEIGHT (Kg)	TYRE LIFTING DEVICE
FCT 850	Up to 19.5	7	2	1250	Optional
FCT 1200	Up to 22.5	7	4,3	1700	Included



# DB 900 IN/UG

## DYNAMIC BALANCING MACHINE

### FULLY AUTOMATIC OPERATION

The machine allows to identify and compensate the unbalances on casings to be retreaded.

Operations are managed on a user friendly screen.



For Passenger and 4WD tyres



The operator can select to make either a static or a dynamic balancing, with the possibility to set the indication of the unbalance in grams or in ounces and to fix the minimum reading level and the approximation degree required.



# CI-MASTER 22,5

## **BASIC EXTRUDER for PCR & TBR tyres**

Automatic application of tread rubber

- Azimut (drum support rotation) axis with brushless motor and drive
- Radius (drum support forward/reverse movement) axis with brushless motor and drive
- One zone temperature control with water pump, electric heater, water/air exchanger with fan, water tank



- 10" touch screen display for operator interface
- Drives, brushless motors and electric equipments made by Schneider Electric
- Extruder a.c. motor: 18Kw - 400/460v 50/60Hz - 3ph with inverter
- 76 mm smooth extruder screw; L/D ratio: 12/1; Rated speed 75 rpm



# CI-MASTER 24

## CNC CONTROLLED STRIP WINDING EXTRUDER

*for PCR & TBR tyres*

Automatic application of tread rubber  
Data storage  
Touch Screen PC (LAN-Ethernet)



CI-MASTER 24

- Laser circumference reader
- Buffed shape acquisition
- Driver for extrusion speed adjustment
- Available with 80, 90 or 120 mm pin type extruder screw.



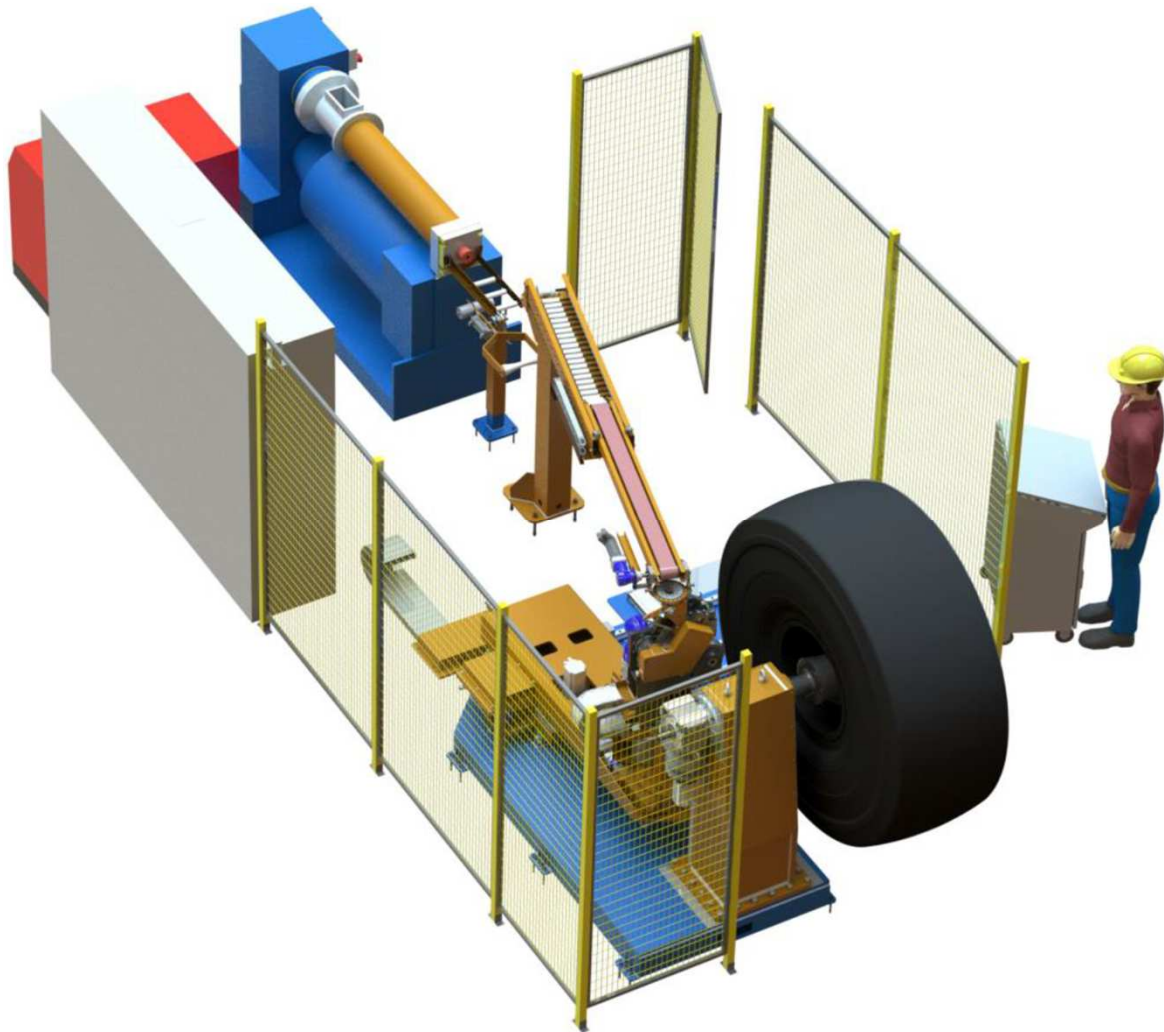
CI-MASTER 24 AVIO

# CI-MASTER 1800

## CNC CONTROLLED STRIP WINDING EXTRUDER

*from TRUCK tyres to 29.5R25*

- Automatic application of tread rubber
- Data storage
- Touch Screen PC (LAN-Ethernet)



- Laser circumference reader
- Buffed shape acquisition
- Driver for extrusion speed adjustment
- Available with 80, 90 or 120 mm pin type extruder screw.



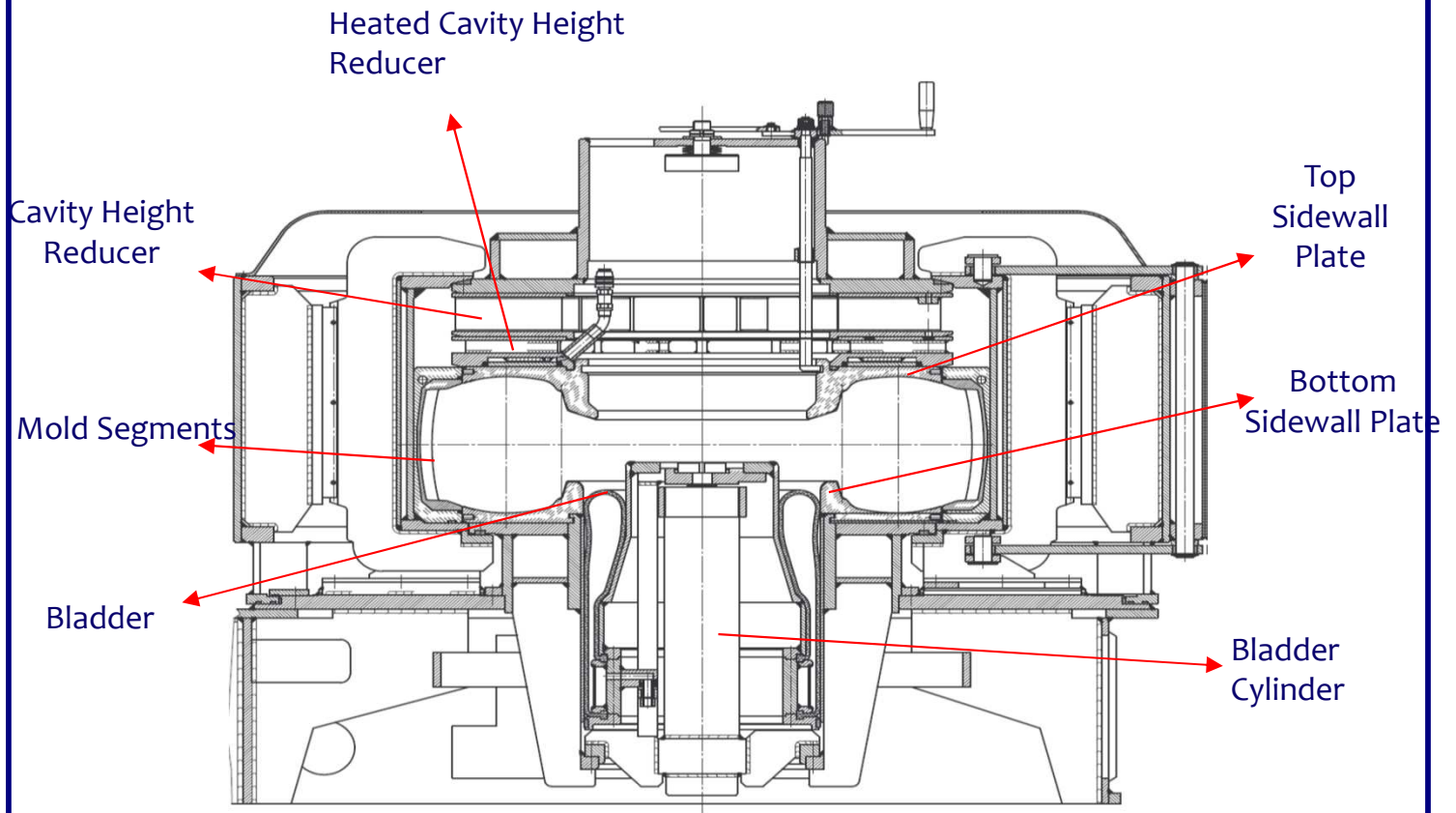


# RP PRESSES

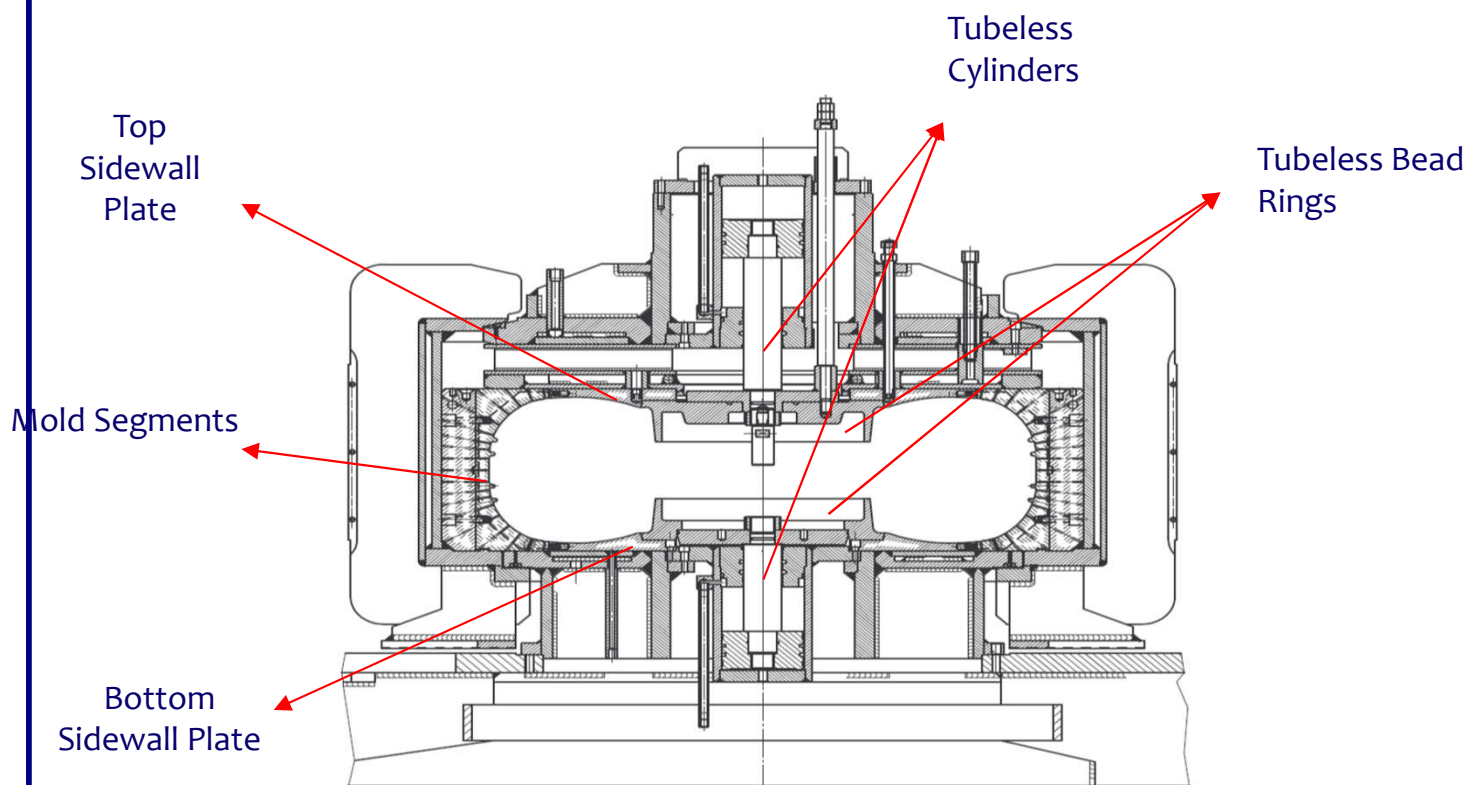
RADIAL CLOSING SYSTEM



# BLADDER SYSTEM

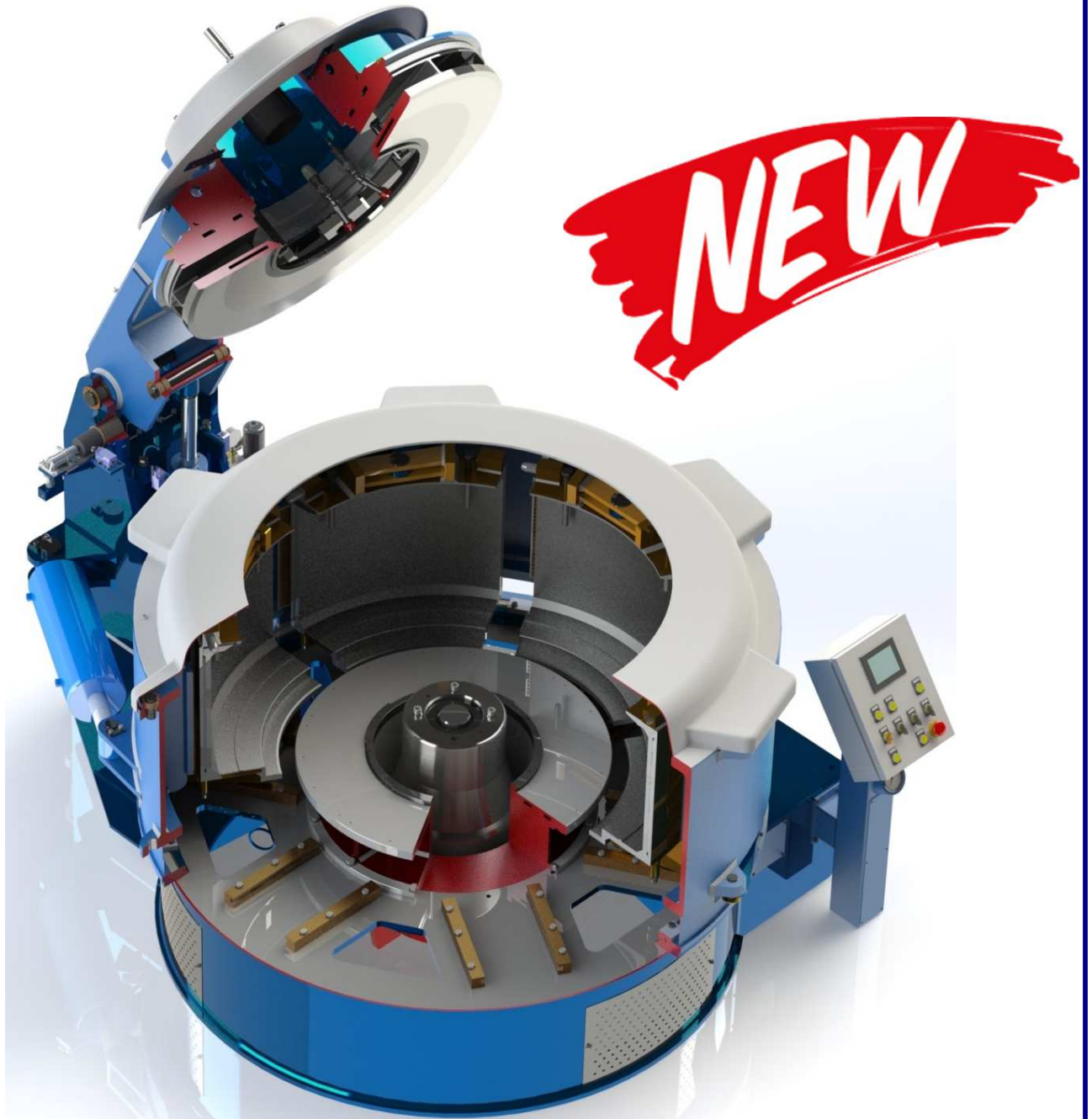


# TUBELESS SYSTEM





# Don't grease'm anymore!



**Eliminate a contaminant, save time and money!**

**Request remote technical support on your next machine!**

## **Invest in technology!**

# QUICK-MOULD CHANGE

OUR TIME SAVING SOLUTION FOR RP PRESSES

**OPTIONAL**

LOADING AND UNLOADING MOULDS

IN ONE PIECE ONLY, SAVING MACHINE DOWN TIME.

EASIER AND FASTER TO STORE, ALWAYS READY TO BE LOADED INTO THE PRESS CAVITY.



**QMC**



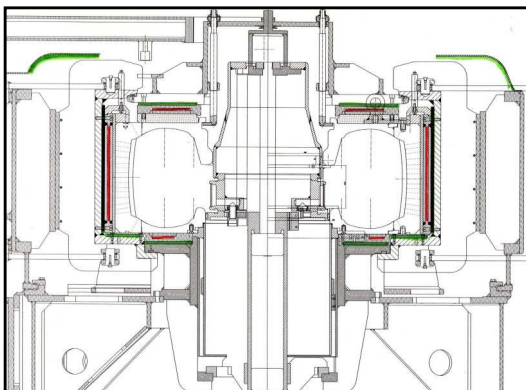
**OPTIONAL**

## ECO-LINE

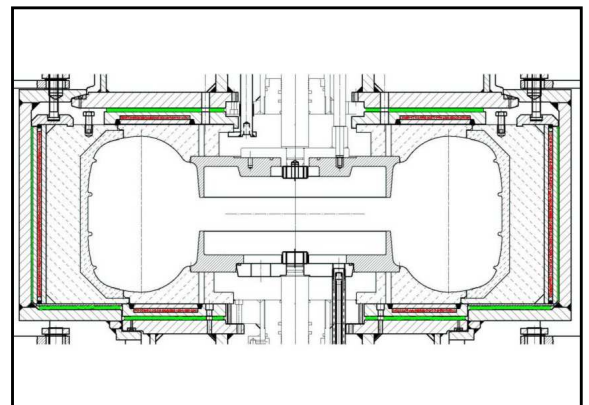
OUR ENERGY SAVING SOLUTION FOR RP PRESSES

BUILT-IN, HIGH GRADE INSULATION MATERIAL PLACED WHERE NEEDED, TO REDUCE HEAT LOSS, SAVING ENERGY COSTS

**ecoLine**



Bladder press



Tubeless press



**OPTIONAL**

# SMART-R.S.K.

## REMOTE SUPPORT KIT FOR PRESSES

USABLE WITH ANY CIMA PRESS WITH ML1100 OR NEWER PLC

*Works both Wi-Fi or using a cable connection to an internet line.*

*One of these Kits is all you need to get Cima's remote technical support to trouble-shoot your press.*

**NEW**



# RP 1 – 1,5



The RP 1 and 1,5 presses allow to retread passenger car and aircraft tyres, can be manufactured tubeless, bladder and curing tube and with high belt to increase the tyre width range.

Heating by steam, electricity or diathermic oil

## TECHNICAL FEATURES

### RP 1H

### RP 1HH

### RP 1,5

Ø DIAMETER OF THE CAVITY mm	695	695	740
HEIGHT OF THE CAVITY mm	190/230	190/270	255/330
MAX TYRE O.D. mm	665	665	700
MAX TYRE C.S. mm	210	250	310
WEIGHT Kg	1290	1600	2300
AIR CONSUMPTION Nlt/h	1250	1250	1350
STEAM CONSUMPTION Kg/h	12	12	14
MAX INFLAT. PRESSURE Bar	16	16	16
ENGINE POWER HP	2	2	2
WIDTH mm	1550	1550	1800
LENGTH mm	1700	1700	2000
CLOSED HEIGHT mm	1200	1200	1200
OPEN HEIGHT mm	1850	1950	2100

TYRES SIZES

From 13" to  
205/55R 16

From 13" to  
245/35R 19

From 205/70R 15 to  
285/40R 18



# RP 2

The RP 2 presses allow to retread passenger car, light truck, 4x4 and aircraft tyres, can be manufactured tubeless, bladder and curing tube and with high belt to increase the tyre width range.

Heating by steam, electricity or diathermic oil



TECHNICAL FEATURES	RP 2H	RP 2HS	RP 2HHS	RP 2,5HH
Ø DIAMETER OF THE CAVITY mm	830	880	880	850/860
HEIGHT OF THE CAVITY mm	230/280	280	280/330	280/340
MAX TYRE O.D. mm	800	850	850	820
MAX TYRE C.S. mm	260	260	310	320
WEIGHT Kg	2300	2500	2600	2700
AIR CONSUMPTION Nlt/h	1450	1450	1500	1600
STEAM CONSUMPTION Kg/h	16	16	18	18
MAX INFLAT. PRESSURE Bar	16	16	16	16
ENGINE POWER HP	2	2	2	2
WIDTH mm	1800	1800	1800	1900
LENGTH mm	2100	2100	2100	2200
CLOSED HEIGHT mm	1300	1300	1400	1350
OPEN HEIGHT mm	2200	2200	2300	2500
TYRES SIZES	From 195/80R 15 to 265/60R 18	From 195/80R15 15 to 265/45R20	From 195/80R15 to 305/50R 20	From 195/80R 15 to 315/35R20

# RP 3



The RP 3 presses allow to retread light truck, 4x4, truck and aircraft tyres, can be manufactured tubeless, bladder and curing tube and with high belt to increase the tyre width range.

Heating by steam, electricity or diathermic oil

## TECHNICAL FEATURES

	RP 3	RP 3H
Ø DIAMETER OF THE CAVITY mm	950	980
HEIGHT OF THE CAVITY mm	250/300	300/350
MAX TYRE O.D. mm	910	940
MAX TYRE C.S. mm	280	330
WEIGHT Kg	3600	3750
AIR CONSUMPTION Nlt/h	1750	1950
STEAM CONSUMPTION Kg/h	23	24
MAX INFLAT. PRESSURE Bar	18	18
ENGINE POWER HP	3	3
WIDTH mm	1950	1950
LENGTH mm	2100	2100
CLOSED HEIGHT mm	1500	1500
OPEN HEIGHT mm	2250	2350
TYRES SIZES	From 235/85R 16 to 285/70R 19.5	From 205/65R 17.5 to 305/70R 19.5



The RP 5 presses allow to retread truck and aircraft tyres, can be manufactured tubeless, bladder and curing tube and with high belt to increase the tyre width range.

# RP 5



Available in Curing Tube, Bladder or TUBELESS system

Heating by steam, electricity or diathermic oil

Press model by tyre size

<b>RP 5</b>
<b>RP 5H</b>
<b>RP 5 HS</b>
<b>RP 5 HH</b>

<i>From 9 R 20 to 315/80 R 22.5</i>
<i>From 9 R 20 to 425/65 R 22.5</i>
<i>From 10 R 20 to 445/60 R 22.5</i>
<i>From 315/80 R 22.5 to 495/45 R 22.5</i>

## TECHNICAL FEATURES

	<b>5</b>	<b>5H</b>	<b>5HS</b>	<b>5HH</b>
Ø DIAMETER OF THE CAVITY mm	1170	1170	1250	1170
HEIGHT OF THE CAVITY mm	325/360	325/460	325/460	460/530
MAX TYRE O.D. mm	1130	1130	1200	1130
MAX TYRE C.S. mm	345	445	445	500
WEIGHT Kg	4600	5600	5900	7150
AIR CONSUMPTION Nlt/h	2500	2500	2500	2500
STEAM CONSUMPTION Kg/h	35	35	35	38
MAX INFLAT. PRESSURE Bar	18	18	18	18
ENGINE POWER HP	3	3	3	3
WIDTH mm	2750	2600	2600	2500
LENGTH mm	2950	2700	2700	2500
CLOSED HEIGHT mm	1400	1700	1800	1800
OPEN HEIGHT mm	2650	2750	2750	2850

## AVAILABLE OPTIONS:

# RP 5

- QMC – Quick Mould Change system,
- Built-in Cavity Insulation system,
- Standard configuration 6 segments, 10 or 12 segments available on request



Press model by tyre size

**RP 5HHS**

From 315/80R22.5 to 445/65R22.5

**RP 5,3**

From 10 R 20 to 12.00 R 24

**RP 5,5**

From 10 R 20 to 13.00 R 24

**RP 5,5 H**

From 10 R 20 to 15.5 R 25

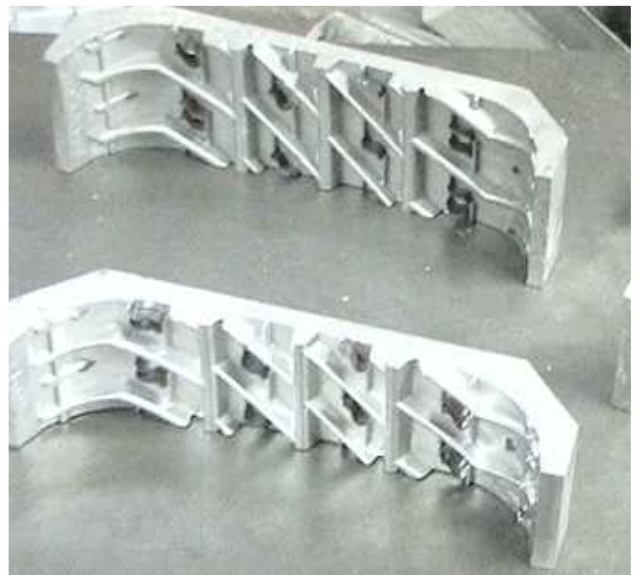
## TECHNICAL FEATURES

	<b>5HHS</b>	<b>5,3</b>	<b>5,5</b>	<b>5,5H</b>
Ø DIAMETER OF THE CAVITY mm	1250	1280	1370	1370
HEIGHT OF THE CAVITY mm	460/530	325/360	325/360	360/480
MAX TYRE O.D. mm	1130	1230	1320	1320
MAX TYRE C.S. mm	500	345	345	365
WEIGHT Kg	7000	5200	7000	7500
AIR CONSUMPTION Nlt/h	2500	2500	2600	2800
STEAM CONSUMPTION Kg/h	38	40	50	60
MAX INFLAT. PRESSURE Bar	18	18	18	18
ENGINE POWER HP	3	3	3	3
WIDTH mm	2500	2100	2700	2700
LENGTH mm	2500	2800	3200	3200
CLOSED HEIGHT mm	1800	1400	1500	1700
OPEN HEIGHT mm	2800	2650	2800	3000

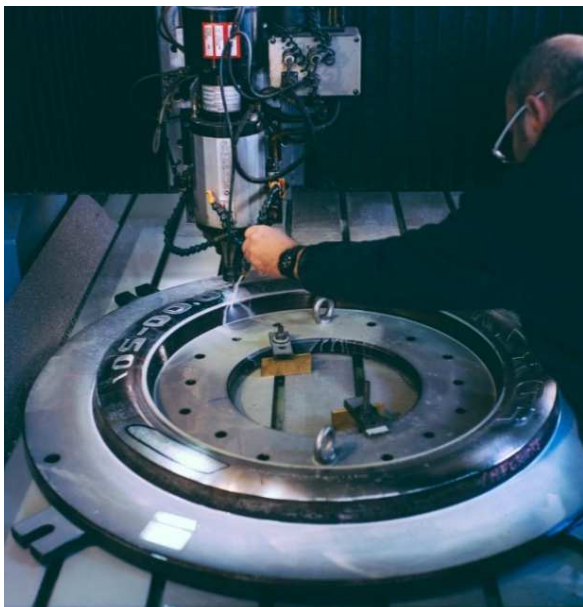


# MOULDS

CIMA IMPIANTI is specialized in the production of molds for tyre retreading, available in different sizes, models and materials, depending on the specific requirements of the customer



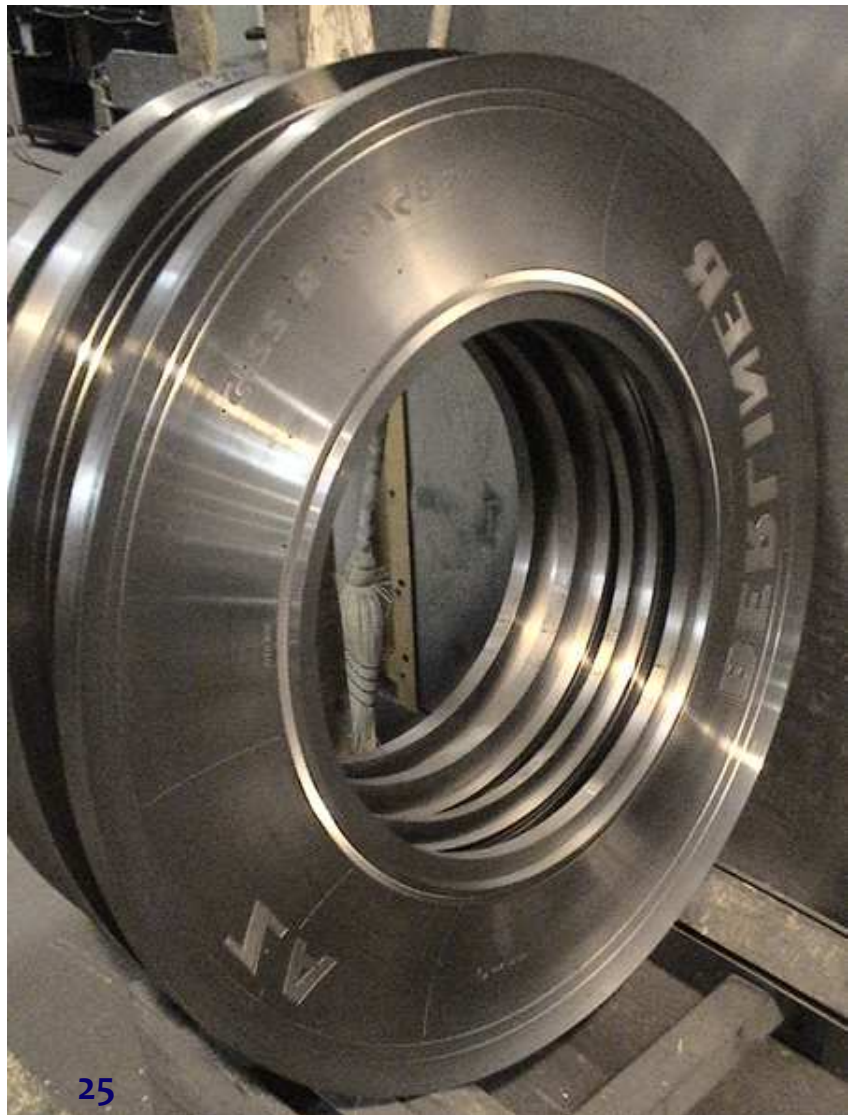
Winter profiles are produced with the insertion of sipes/blades made of special steel.





# MOULDS

Each assembly phase has a programmed, intermediate check-list control, in order to guarantee maximum quality and repeatability





# EQUIPMENT FOR AIRCRAFT TYRE RETREADING

Today, one important application for our presses is the Aircraft Tyre retreading market.

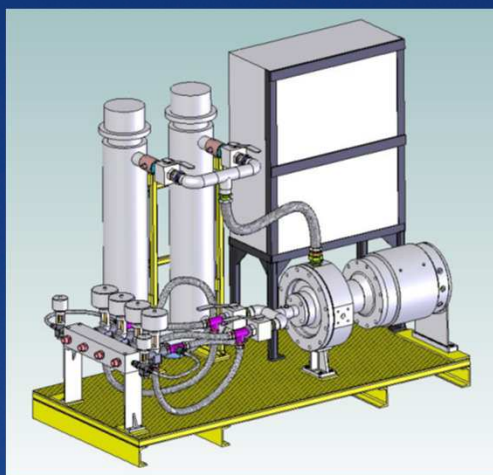
CIMA IMPIANTI supplies most of the major retreaders of Aircraft tyres in the world with specific machines and moulds.

High pressure curing presses up to 25 bar inflation pressure are available on most of our standard range of machines. Special moulds made of high grade aluminium assure the best quality available on the market of tyre retreading.

**CIMA IMPIANTI has also developed one HOT NITROGEN inflation system:**

- Nitrogen extends life of bladders because not oxydating
- Nitrogen is preferred by aircraft tyre retreaders working at high pressure because it assures the maximum adherence between the aircraft tyre (more rigid) and the mould
- Nitrogen reduces the curing time if used heated





### HOT NITROGEN SYSTEM

The group has the function to heat the nitrogen and assure its circulation inside the curing presses during the curing cycle of tires. The machine is interfaced with the curing press to which it is connected and is composed by:

- Electrical cabinet
  - Heating Units
- Electric motor
- Turbine

## AIRCRAFT TYRES/CIMA PRESSES

Tyre Size	Model	Tyre Size	Model
20x5.5x10**	RP 1 H	41x15.0x18	RP 5 H
22x6.75x10**	RP 1 H	44.5x16.5x18	RP 5 HS
24x7.7x10	RP 1 H	44x16x18	RP 5 HS
24x5.5x14	RP 1 H	H40x14.5x19	RP 5 H
26x6.6x14	RP 1 H	H41x15.0x19	RP 5 H
28x7.7x14	RP 2 H	46x16x20	RP 5 HS
30x11.50x14	RP 2 HHS	46x17x20	RP 5,5 HH
H31x13.0x12	RP 2 HHS	49x17x20	RP 5,5 HH
34x11x14	RP 3 H	49x19.0x20	RP 5,5 HH
40x16x14	RP 5 H	50x21.0x20	RP 5,5 HH
27x7.75x15	RP 2 H	H44.5x16.5x20	RP 5 H
30x8.8x15	RP 2 H	H46.x18x20	RP 5 HS
32x11.50x15	RP 2 HHS	H44.5x16.5x21	RP 5 H
H37x14.0x15	RP 3 H	1270x455x223	RP 6
1050x395x16	RP 5 H	50x20x22	RP 6
36x11x16	RP 3 H	H49x19. 0x22	RP 5,5 HH
40x14x16	RP 5 H	1400x530x23	RP 6
40x15.5x16	RP 5 H	52x20x23	RP 6
H30x9.5x16	RP 2 H	H54x21.0x24	RP 6

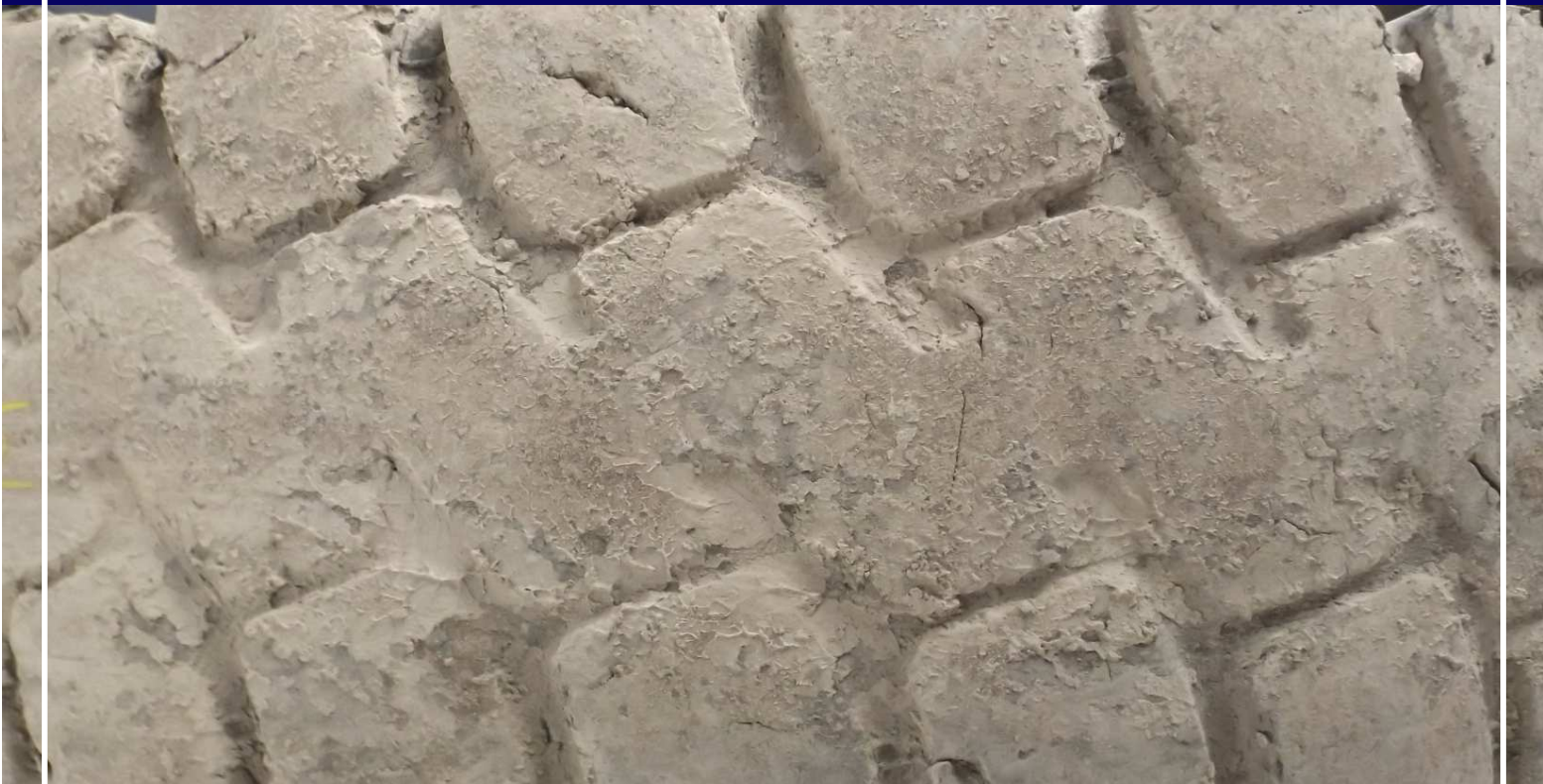
### TUBELESS SYSTEM







# Equipment For Off The Road (O.T.R.) Tyre Retreading



\*Dimensions and specification shown are not binding and could be changed without notice by the manufacturer



A photograph of a desert landscape with two off-road vehicles, possibly dump trucks, driving on a dirt road. The vehicles are kicking up a large cloud of dust. In the background, there are rugged, rocky hills under a clear sky. The overall scene is dusty and arid.

# **Retreading Off-The-Road**



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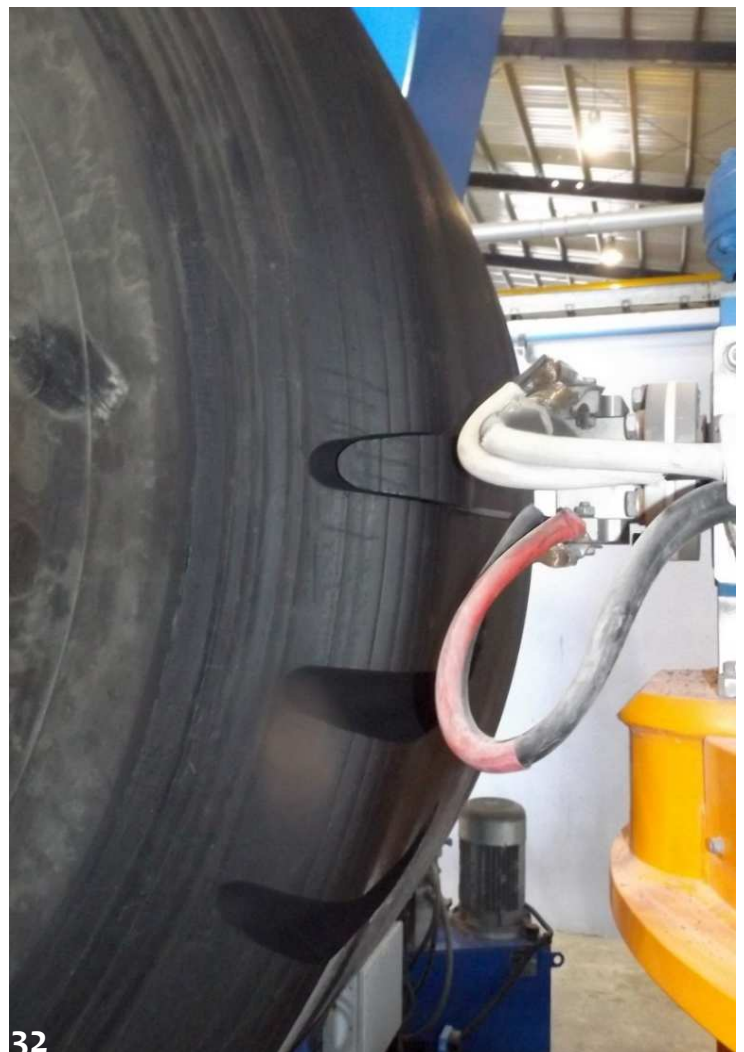
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RP 14 

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# OTR CNC Buffing Peeling Grooving Machine

Tyre holding group with steel plates (low pressure inflation), tyre drive by Brushless motor and hydraulic tyre support for easy loading and unloading (no pit required)

Data storage

Exclusive Touch Screen PC (with Lan, Ethernet, USB Port for NetCam)

NEW and reinforced exclusive inclined tyre holding frame design

5 axis tooling frame (3 positions Peeling / Buffing / Grooving) working with 3 axis during Peeling and Buffing and with 5 axis during Grooving

MACHINE AVAILABLE IN FOUR DIFFERENT SIZES

## CI-MAXI 29 (2100)

for tires from 19,5" up to 33"

## CI-MAXI 35

for tires from 24" up to 24.00R35

## CI-MAXI 51

for tires up to 36.00 R 51 and 45/65 R 45

## CI-MAXI 63

for tires up to 59/80 R 63 and 70/70 R 57





# CI-MASTER



## Strip Winding



## Extruder Builder





# OTR CNC Extruder Builder

Tyre holding group with steel plates (low pressure inflation), tyre drive by Brushless motor and hydraulic tyre support for easy loading and unloading (no pit required)

Exclusive Touch Screen PC (with Lan, Ethernet, USB Port for NetCam)

**NEW** and reinforced inclined tyre holding frame

- DC motor for extruder speed adjustment ;
- “Cold Feed Pin Type” extruder;
- 4 zones of temperature control

5 axis strip application group with calendering rollers and strip supporting device

**MACHINE AVAILABLE IN FOUR DIFFERENT SIZES**

## **CI-MASTER 29 (2100)**

for tires from 19,5” up to 33”

## **CI-MASTER 35**

for tires from 24” up to 24.00R35

## **CI-MASTER 51**

for tires up to 36.00 R 51 and 45/65 R 45

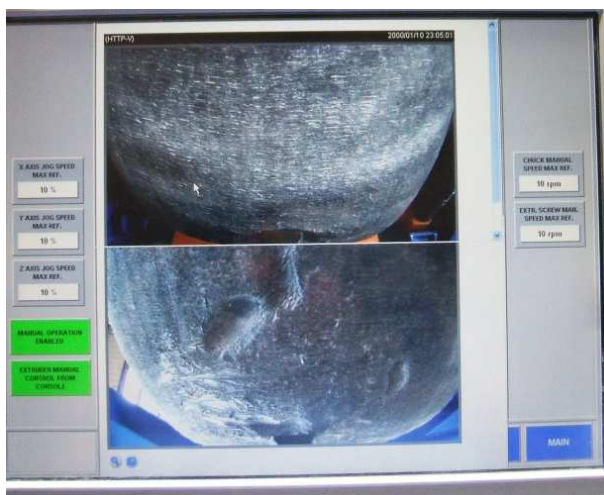
## **CI-MASTER 63**

for tires up to 59/80 R 63 and 70/70 R 57



# CI-MASTER SKF

## AUTOMATIC SKIVE FILLER AND CUSHION GUM APPLICATOR



- 50 mm extruder with cooling unit;
- 2 Cameras to monitor tire surface;
- Manual override to fill big skives

# CI-MASTER CRATFILL

Easy to use, compact, 60 mm extruder for all crater filling operations;

Operator panel and temperature control unit mounted on board;

Easy C-CLAMP closing system;

Thermo regulated barrel, screw and extrusion head



Extruder mounted on wheels for easy positioning

Weight: 900 Kgs  
Dim.: 120x80x100 cm  
Extruder motor: 15 Kw



Extrusion head and screw



Rubber feeding mouth



# O.T.R. MOULDS



**CIMA IMPIANTI produces moulds for O.T.R. tyres up to 63" rim dia. for any kind of press available on the market**





A large black off-the-road tire is being lowered by a crane into a retreading machine. The machine has several orange-colored segments and a central rotating drum. The tire is positioned above the drum, and the machine's components are visible in the foreground and background.

# RP Presses for Off-The-Road Tyre Retreading

RADIAL CLOSING SYSTEM



# RP 6 – 7H – 8

The RP 6 presses allow to retread tyres for agricultural purpose, aircraft and small OTR.

The presses can be manufactured tubeless, bladder, curing tube and with high belt to increase the tyre width range



## TECHNICAL FEATURES

### RP 6

### RP 7H

### RP 8

Ø DIAMETER OF THE CAVITY mm	1550	1750	1950
HEIGHT OF THE CAVITY mm	550/600	470/700	700/850
MAX TYRE O.D. mm	1490	1690	1880
MAX TYRE C.S. mm	580	670	820
WEIGHT Kg	11000	12000	22000
AIR CONSUMPTION Nlt/h	3500	3500	7500
STEAM CONSUMPTION Kg/h	80	100	130
MAX INFLAT. PRESSURE Bar	18	18	18
ENGINE POWER HP	5.5	7.5	10
WIDTH mm	3300	3300	3500
LENGTH mm	3900	3900	4300
CLOSED HEIGHT mm	1450	1800	2500
OPEN HEIGHT mm	3250	3850	5000
TYRES SIZES	From 13.00R 20 to 20.5 R 25	From 14.00 R 24 to 23.5 R 25	Up to 29.5 R 25

# RP 9 – 9H – 10



The RP 9 and 10 presses allow to retread tyres for agricultural purpose, and OTR.

The presses can be manufactured tubeless and with curing tube.

## TECHNICAL FEATURES

	<b>RP 9</b>	<b>RP 9H</b>	<b>RP 10</b>
Ø DIAMETER OF THE CAVITY mm	2150	2150	2500
HEIGHT OF THE CAVITY mm	750/850	800/1000	800/1100
MAX TYRE O.D. mm	2080	2080	2420
MAX TYRE C.S. mm	820	970	1050
WEIGHT Kg	25000	29000	32000
AIR CONSUMPTION Nlt/h	7500	8000	10000
STEAM CONSUMPTION Kg/h	150	180	230
MAX INFLAT. PRESSURE Bar	18	18	14
ENGINE POWER HP	10	10	12,5
WIDTH mm	3500	3500	3900
LENGTH mm	4700	4700	5300
CLOSED HEIGHT mm	2500	2650	2800
OPEN HEIGHT mm	5000	5150	5500
TYRES SIZES	From 23.5 R 25 to 29.5 R 29	From 23.5 R 25 to 35/60 R 33	From 24.00 R 35 to 37/25 R 35



# RP 11



## TECHNICAL FEATURES

### RP 11

Ø DIAMETER OF THE CAVITY mm	3100
HEIGHT OF THE CAVITY mm	1250
MAX TYRE O.D. mm	2850
MAX TYRE C.S. mm	1160
N. OF SEGMENTS	12
AIR CONSUMPTION Nlt/h	12000
STEAM CONSUMPTION Kg/h	250
MAX INFLAT. PRESSURE Bar	13
ENGINE POWER HP	30

TYRES SIZES

From 35" to 49" incl.  
45/65R45 and  
27.00R49

The RP 11 and RP 14 presses allow to retread tyres for big OTR vehicles.

The presses can be manufactured tubeless.





# RP 14



## TECHNICAL FEATURES\*

Ø DIAMETER OF THE CAVITY mm	
HEIGHT OF THE CAVITY mm	
MAX TYRE O.D. mm	
MAX TYRE C.S. mm	
N. OF SEGMENTS	
AIR CONSUMPTION Nlt/h	
STEAM CONSUMPTION Kg/h	
MAX INFLAT. PRESSURE Bar	
ENGINE POWER HP	

## RP 14

4250
1600
4030
1500
12
15000
300
13
40

TYRES SIZES

From 57" to 63" incl.  
40.00R57 and  
59/80R63





**CIMA IMPIANTI S.p.a.**

Via Gora e Barbatole, 192 – 51100 Pistoia (ITALY)

Phone: +39.0573.9049-1 Fax: +39.0573.402244

E-mail: [info@cimaimpianti.com](mailto:info@cimaimpianti.com)

[www.cimaimpianti.com](http://www.cimaimpianti.com)