

MONSTER AG TT

There's no future for risks and strain



 **CORGHI**

Segui Corghi - Follow Corghi

MONSTER AG TT

SMART CORGHI System

The only one
in the world
with 'leva la leva'
technology

A “monster” of performance for industrial tyre professionals

Corghi, a leading manufacturer of tyre changers with extensive knowledge of the sector, has opened a new frontier for professionals of the heavy-duty tyre industry.

Following the pressing demands of **tyre specialists in the truck, earth movement and farming machine field** and of technicians of **workshops of fleets of transport vehicles**, the **Corghi** researchers have developed and patented a new and revolutionary heavy-duty tyre changer.



Together with the best of cutting edge technologies, **Monster AG TT** also integrates all the features that make it a fundamental and irreplaceable tool for the working quality and safety of industrial tyre operators.

Outstanding advantages in 5 strongholds:

- 1 • Significant reduction in strain
- 2 • High protection of rims and tyres
- 3 • High performance
- 4 • Maximum safety
- 5 • Absolutely universal application

Thanks to **Monster AG TT**, the profession of tyre specialists now changes substantially, guaranteeing technicians and their customers an additionally **efficient, rapid and top quality service**.



1 • Significant reduction in strain

Monster AG TT is a **super automatic and revolutionary** tyre changer. It is the only one in the world to fit the “**Leva la Leva**” device. It significantly reduces strain and risks for specialized professionals in changing all types of tyres on trucks, buses, farming and earth movement machines.

Equipped with **automatic and self-centring** wheel clamping device (without using extensions), **Monster AG TT** offers an electronic system to save **the diameters of the rims** and the **position of the wheel** and the “**Side To Side**” device that enables the tools to move automatically from one side of the tyre to the other.

2 • Very high protection of rims and tyres

The whole tool block is **operated hydraulically**. It comprises the “**Leva la Leva**” device, which performs tyre changing in a completely automated manner and a special **bead loosening disc** which, based on the hydraulic movement, reaches the **perfect inclination** in each phase of the process. A fundamental feature of the system is that the arm that operates the tool block makes a coordinated movement with the turntable and always keeps the **wheel and the tools perfectly tangent** in all situations. This **reduces tension** and **avoids contact**, consequently totally safeguarding the **integrity of the rims and tyres**.

3 • High performance

Monster AG TT is designed and manufactured to guarantee maximum versatility and efficiency for the operator. The **single position of the tool block** on the carriage makes tyre changing jobs easier and quicker. The **new play recovery pads** eliminate play due to wear; the **memory function** used to save the position of the tools speeds-up positioning during tyre changing. The **synchronised movement** between tool chuck and carriage, the **electro-hydraulic control unit with display**, which can be adjusted at pleasure by the user, and the possibility to automatically position the finger and the disc tangent with the rim, make **Monster AG TT** unmatched and one of a kind.

4 • Maximum safety

Not only is **Monster AG TT** designed to reduce strain, but also to guarantee maximum operator integrity and safety. The design of the tyre changer is devised to eliminate the need for a base, which consequently eliminates any unbalanced situations, which are certainly dangerous when loading **large and heavy wheels**. This solution allows the operator to work in **complete safety** with the wheel raised off the ground by just a **few centimetres**. What's more, the **new controller with very handy controls** allows the operator to command all movements without touching the tool block.

5 • Absolutely universal application

The universality of **Monster AG TT** is guaranteed by the new **self-centring** locking turntable made up of **tilting jaws with 9 direct lockable positions**, from **14” to 48”** and with tilt up to **58°**. The system is pre-arranged to lock rims with minimum centre hole diameter of **90 mm**. The turntable is equipped with a **drive inverter** that automatically enables the **output** of the **optimal speed** for each job, including **tyre groove forming**.





"Leva la Leva" device (SMART CORGHI System)

Locking turntable

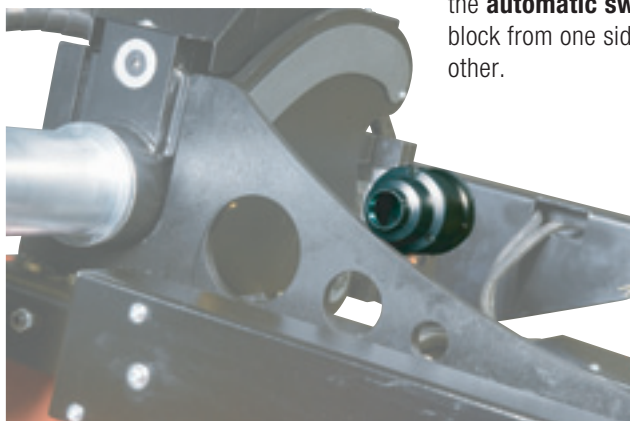
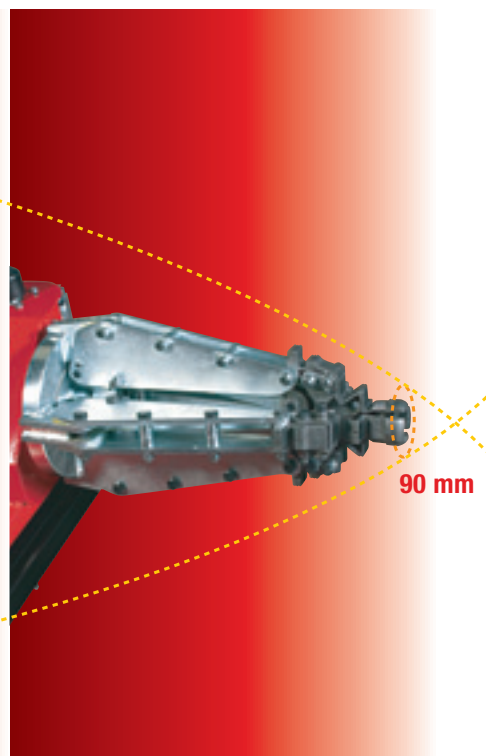
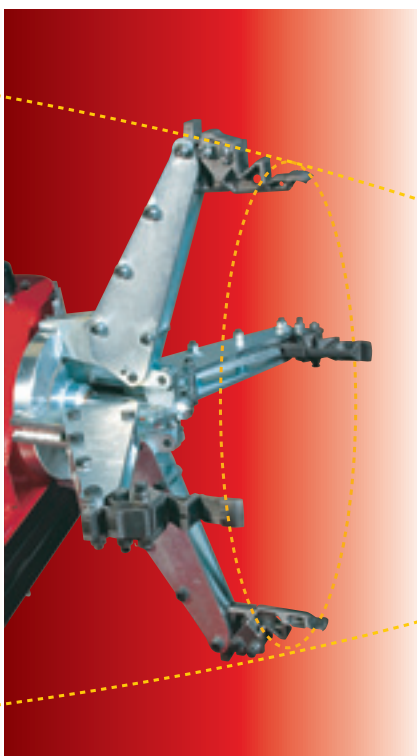
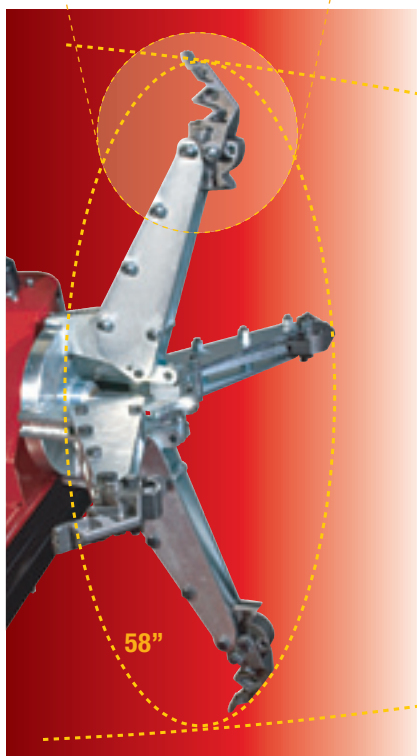
Bead loosening disc

Radio transmitter control unit

Corghi's research and experience for an unmatched product



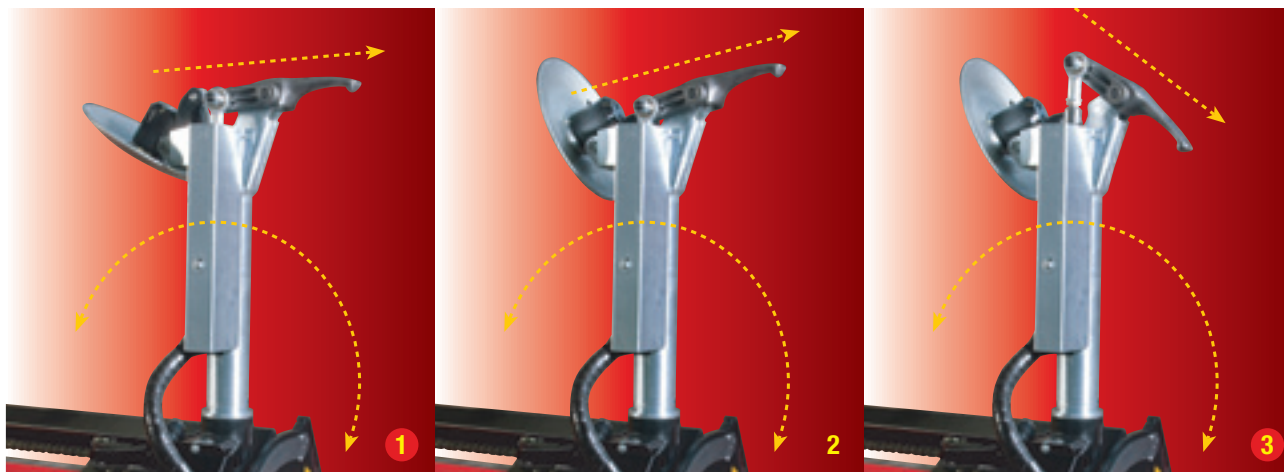
The new and exclusive **tilting jaw adapts perfectly to all types of rims**.
From **9 mm** to **58"**, **Monster AG TT** can be used for the tyres of any vehicle.



The **S. T. S.** device (Side To Side) enables the **automatic switching** of the tool block from one side of the tyre to the other.



The **new controller with very handy controls** enables efficient operation of the tyre changer without the operator **touching the tools**.



Sequence of automatic movements of the tool:

1 bead clamping position

2 rim tangency position

3 "Leva la Leva" changing position

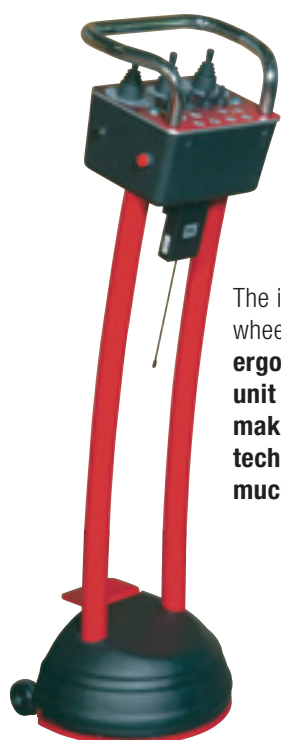


Sequence of automatic movements of the bead loosener disc:

1 disc tangent with rim
(minimum inclination)

2 disc inclinable to maximum
inclination

3 tool block rotation



The independent
wheel-mounted
**ergonomic control
unit** (trolley style)
makes the
technician's job
much easier.



The **electro-hydraulic control unit** with
display can be positioned at pleasure by
the user and used to related to the tyre
being changed.

MONSTER AG TT

**From now on,
no more levers,
no more strain,
no more damages
to rims and tyres
and no more risks for the operator.**

Technical data

Tool arm	
Changing type	Leva la Leva
Tool-rim tangency type	YES
Automatic "S.T.S" wheel turnover movement	YES
Bead loosening disc	with "patented" hydraulic movement
Axial travel	1120 mm
Displacement axial speed	100 mm/s
Operating axial speed	40 mm/s
Maximum internal axial bead loosening force	30.000 N
Maximum external axial bead loosening force	25.000 N
Rotation	Hydraulic
Locking	Hydraulic
Tool arm lift	
Chuck holding carriage	
Hydraulic axial travel	670 mm
Operating axial speed	70 mm/s
Chuck	
Locking system	Hydraulic turntable
Rotation motor	Drive inverter
Rotation speed	3 speed 1 – 3.5 – 7.8 RPM
Maximum rotation torque	5.500 Nm
Locking unit	4 tilted jaws (patented)
Locking capacity	from 14" to 58"
Locking positions	9
Maximum locking force	40.000 N
Maximum hydraulic pressure	180 bar
Maximum tyre diameter	2500 mm
Maximum tyre width	1600 mm
Maximum wheel weight	1700 kg
Minimum wheel centre hole Ø	90 mm
Minimum working height to chuck shaft	450 mm
Base	
Wheel loading area	floor level
Hydraulic control unit – electrical equipment	
Stand-by function	YES
Display for setting wheel size in inches	YES
Operation	Electrical
Motor	3.3 - 4 kW
Adjustable hydraulic pressure	from 80 to 180 bar
Oil tank	15 l
Power supply	Electrical 3ph 230/400 V - 5 kW
Operating noise level	63 dB (A)
Controller	
Transmission of commands	via radio
Emergency button	YES
Voltage	24 V
Weight	8 kg
Dimensions	
Length	2400 mm
Width	2200 mm
Maximum height	1800 mm
Weight	1300 kg

Authorised dealer

The manufacturer reserves the right to modify the characteristics of its products at any time.
Cod. DPG000141A - 05/09

To protect the planet and reduce paper usage, our catalogues are viewable online at the website www.corghi.com. Printing responsibly contributes to saving the environment.

