MONSTER AG TT

MONSTER AG TT, as you might imagine, affords the user many advantages, but there are 5 which make this new product truly excellent.

- **REDUCTION IN EFFORT FOR THE USER**
- **PROTECTION FOR WHEELS AND TYRES**
- **HIGH WORKING PERFORMANCE**
- **SAFETY**
- **UNIVERSAL APPLICATION**

MONSTER AG TT

REDUCTION IN EFFORT FOR THE USER

Leva la Leva demounting system, setting of wheel size and storing of its position, SIDE TO SIDE device to switch automatically from one side of the wheel to the other, chucking device without extensions but with tilting jaws, maximum automation.

PROTECTION FOR WHEELS AND TYRES

Leva la Leva demounting system with coordinated movement of the chucking device for reducing tension and avoiding contact with the rim.

HIGH WORKING PERFORMANCE

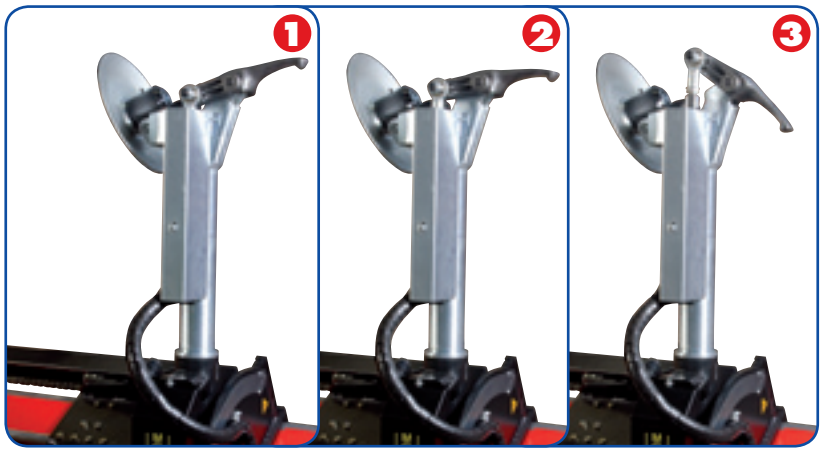
The equipment and the wheel are always tangent (they point towards the centre of the wheel), providing maximum precision and efficiency. Variable inclination of the hydraulic bead breaker.

SAFETY

Ability to work with the wheel only a few centimetres from the ground, elimination of base with its corresponding dangerous step when loading the wheel.

UNIVERSAL APPLICATION

Ability to clamp rims with a minimum centre hole of 90mm and a maximum wheel diameter of 58”. Chucking device equipped with Motoinverter which enables automatic setting of optimal speed for each job including groove forming.



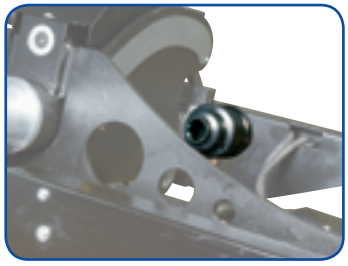
Tool’s sequence of automatic movements:
1. *coupling position of the bead*
2. *point of tangency of the rim*
3. *“leva la leva” (without lever) demounting position*

Bead breaker disc sequence of automatic movements:
1. *disc to rim tangent (minimum inclination)*
2. *disc can be tilted to its maximum*
3. *tool unit rotation*

New turntable 14”-48”

From 48” to 58” with clamp tilting

90 mm minimum lockable hole



“S.T.S.” (Side To Side) device

New hydraulic control unit

New control module with ergonomic controls

- Super automatic tyre changer with Leva la Leva system designed for changing all types of wheel for motor cars, buses, agricultural and earth moving vehicles, with a significant reduction in operator effort.
- Wheel and equipment always totally tangent.
- Ability to work with heavy wheels lifted from the floor by the minimum amount necessary.
- Automatic switching from one side of the wheel to the other – SIDE TO SIDE.
- Wheel clamping via hydraulic chuck.
- New tilting jaws with 9 clamping positions from 14” to 48” and with tilt up to 58”. Ability to clamp rims with a minimum centre hole of 90mm.
- Completely automated tool arm with no contact with rim during removal and fitting.
- Single tool position on carriage for simplifying and speeding up work.
- Hydraulic rotation and lifting of tools.
- Hydraulic bead breaker disc, allows setting of perfect working angle.
- Synchronised movement between chuck and tool carriage.
- New play compensation pads enable elimination of play due to wear.
- Base with wheel loading area at floor height.
- Chuck with 2-speed Motoinverter and groove forming.
- Electro-hydraulic control unit with display, can be positioned by the user.
- Rim diameter setting (inches or millimetres) via display and automatic chucking device positioning.
- Ergonomic control unit with wheels, trolley style, separate from machine.
- Both finger and bead breaker can be automatically fitted tangent with wheel rim.
- Tool positioning memory function, for fast positioning during removal and fitting.
- Electrical operation.
- Separate radio module can be fitted to machine on request.

Technical Data

tool arm	
demounting system	Leva la Leva
tool-rim tangency type	YES
automatic "S.T.S" wheel turnover movement	YES
bead breaker	patented hydraulic
axial travel	1120mm
displacement axial speed	100mm/s
operating axial speed	40mm/s
maximum internal axial bead breaking force	30,000N
maximum external axial bead breaking force	25,000N
rotation	hydraulic
clamping	hydraulic
tool arm lift	hydraulic
chuck holding carriage	
hydraulic axial stroke	670mm
operating axial speed	70mm/s
chuck	
clamping system	hydraulic chucking system
rotation motor	Motoinverter
rotation speed	3-speed 1 - 3.5 - 7.8 RPM
maximum rotation torque	5,500Nm
clamping unit	4 patented tilting jaws
clamping capacity	from 14" to 58"
clamping positions	9
maximum clamping force	40,000 N
maximum hydraulic pressure	180 bar
maximum tyre diameter	2,500mm
maximum tyre width	1,600mm
maximum wheel weight	1,700kg
minimum wheel centre hole Ø	90mm
minimum working height to chuck shaft	450mm
base	
wheel loading area	floor level
hydraulic control unit – electrical equipment	
Stand-by function	YES
display for setting wheel size in inches	YES
operation	electric
motor	3.3 - 4kW
adjustable hydraulic pressure	from 80 to 180 bar
oil tank	15 lit.
power supply	3Ph 230/400 V – 5 kW
operating noise level	63 dBA
controller	
transmission of commands	via cable (via radio on request)
emergency button	YES
voltage	24 V
weight	8 kg
dimensions	
Length	2400 mm
Width	2200 mm
Maximum height	1800 mm
Weight	1,300 kg

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