



WM350

User manual

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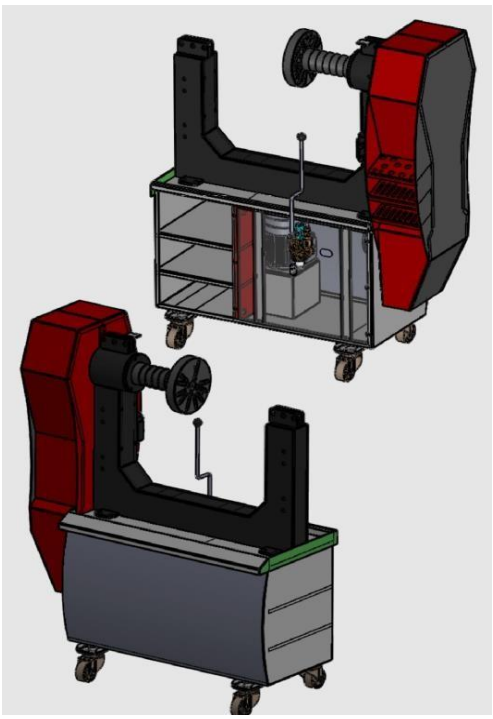
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ATTENTION

This operational manual must be read very carefully because of including very important information about warnings and instructions. Please, keep this in a reachable place and in safe.

Wheel Restore has no responsibility of any damage which may occur from not following the instructions of this operational manual.

This machine must be used only for the purpose that it has been designed. Any of other usage should be known as wrong. The manufacturer is not responsible of damages that occur from wrong and illogical usage.

TRAINING AND INFORMING OF MACHINE OPERATORS

Machine must be used only by the trained staff. Training and informing of the staff must be done by approved partner or Wheel Restore.

CAUTION

This machine corrects defected rims.

It corrects and levels the rims between 10" to 24" and makes the surface smooth with lathe.

Its 1,5 ton pump is solely designed to level rims.

Lathe unit of the machine is designed to clean crusty sections of rim surfaces.

This machine is not used for other purposes. If used, producer has no responsibility for the accidents.

ENVIRONMENT NECESSITIES FOR SETTING AND ASSEMBLING

Environment necessities for setting and assembling should have below specifications:

- Flat, strong preferably concrete or strong coated surface,
- Enough light (unchangeable, non-eye dazzle and non-bright light),
- Covered area which is kept off negative weather conditions,
- Lower noise levelled area from known declarations,
- A clean environment and work area.
- Working area must not be closed to dangerous movements of other machines,
- Explosive, rustable and poisonous materials should not be stored in the same working area.
- Operator has to see all around the machine during operation. Unauthorized people or objects must be kept away from working area.
- Main assembling from energy connecting resources must be done by the qualified staff.
- If you have any hesitation about setting and assembling please contact to Wheel Restore or Authorized Service Offices.

SAFETY

The manufacturer has no responsibility from any damages that occur on the changes on the machine which is not approved before. It is prohibited to remove of safety materials or making changes due to Europe regulations.

Electro- Hydraulic Wheel Straightening Machine is designed to correct the rims between 10" and 24"

This machine is not used for other purposes.

Follow all instructions and warning labels on the machine.

When you have problems with your machine see "HELP" sections.

If you can not solve the problem, apply to technical service of Wheel Restore

Wear your gloves and goggles while levelling rims. This precaution avoids your hands from cuts and protects your eyes from flying metal particles.



Be sure that working area has enough space indicated at drawing on the left.

Machine switch off automatically when electricity goes off.

Machine should be placed on a clean and level surface.

Aluminium and steel rims must be heated with blow torch.

The purpose of heating is to avoid rims from breaking, cracking and splitting while working.

Rims should be cantered on flanges with proper spacers.

Piston should be used with proper ends and proper places

Piston should fit exactly onto rims and supports.

Be sure that your clothes will not wrap around flanges. (ties, shirts cuffs, coat buttons, etc.)

Do not put your hands between rim and piston during operation.

Fit the piston exactly onto supportive canals.

If not it may slide and injure you.

Do not direct the piston onto living creatures.

Check that supportive pins are in their place

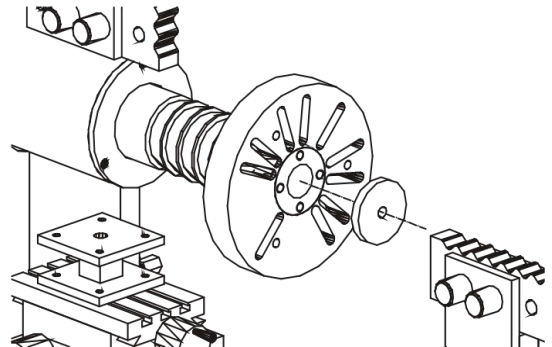
Fasten fixing nuts while levelling, loosen the nuts while lathing

Electrical and Hydraulic failures should be handled by experienced and competent technicians.

This booklet is prepared for the operators and technicians who use the machine and give technical service. This manual should carefully be read before taking any actions on the machine.

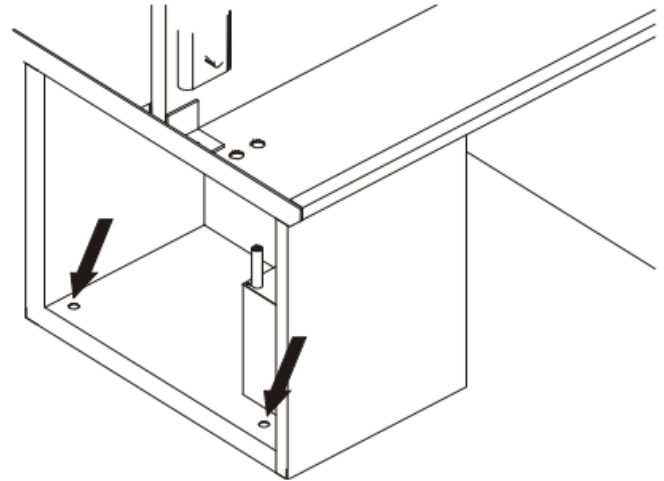
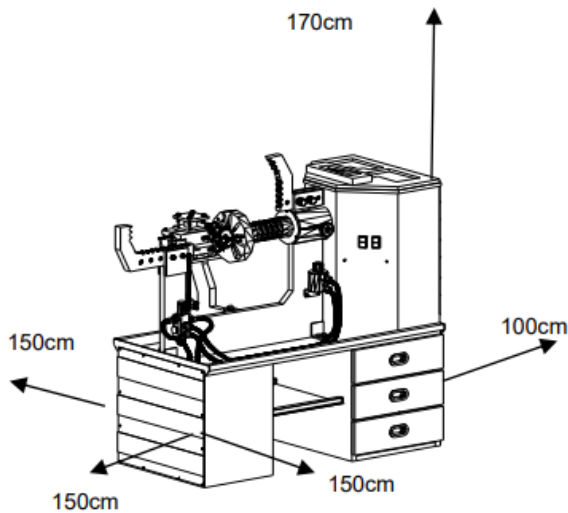
Electrical and Hydraulic systems of this machine should be maintained by certified and competent technicians.

Hydraulic unit can only be maintained by technical service of the Manufacturing Company. Problems caused by incompetent technicians are not under the responsibility of producer.



PLACING OF THE MACHINE AND ASSEMBLING

Machine should be placed onto surface with steel nuts in order to work silently and not to move during operation. Around the machine, there should be enough space indicated below to use it easily and comfortably. During lathe in operation, take special care for comfortable working. Keep the place of your machine off water, humidity and chemical materials.



Make holes in the surface so as to adjust the holes of machine bottom part and fit the machine

ELECTRICAL LAYOUT

Be sure that main voltage is the same as machine voltage !

Use only the plug which proper your electrical installation.

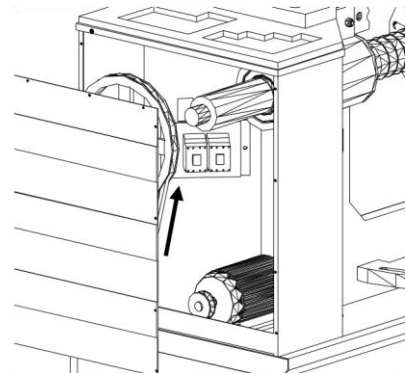
Use high quality plug with ground.

If the piston is not moving up and down when you start hydraulic motor, it might be turning in reverse direction. Look at electrical layout and change the phases.

If the flange is turning in reverse direction when you start mechanical motor, look at electrical layout and change the phases of mechanical motor.

When you observe an abnormality, look at " FAQ " section and solve the problem.

If you fail to solve the problem, look at " SAS " section and contact us.



MAINTENANCE OF THE MACHINE

You should follow maintenance program given below in order to make your machine life longer and work smoothly.

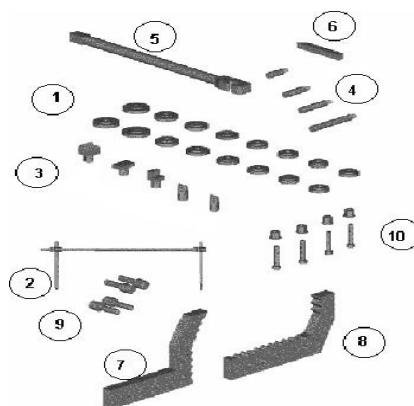


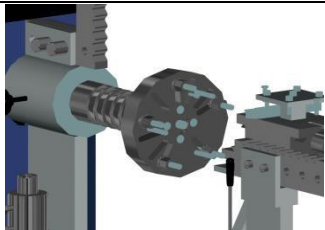
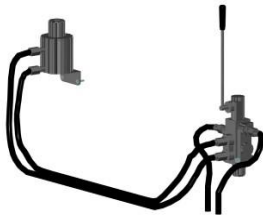
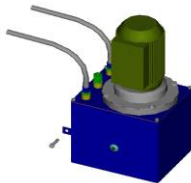
All moving cog shafts/rails/gears should be lubricated periodically.

Daily maintenance	Clean flange, lathe, and counter. Never leave your machine wet leave your machine wet
Monthly maintenance	Check oil in oil tank. Check nuts of flange Clean the machine with diesel saturated clothes.
Bi-annual maintenance	Check hydraulic hoses and fittings.
Annual maintenance	Check the machine to see if there is any problems. Check electrical installation. This process should be accomplished by a competent electrician. Check burned, torn cables, sockets and contactors.

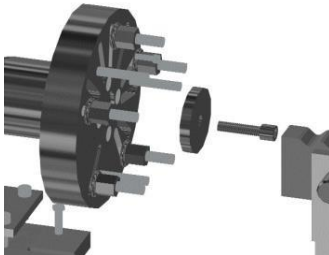
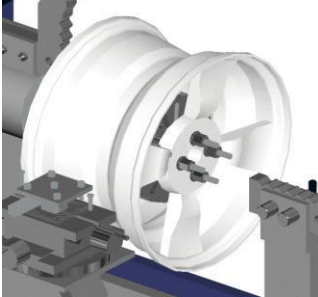

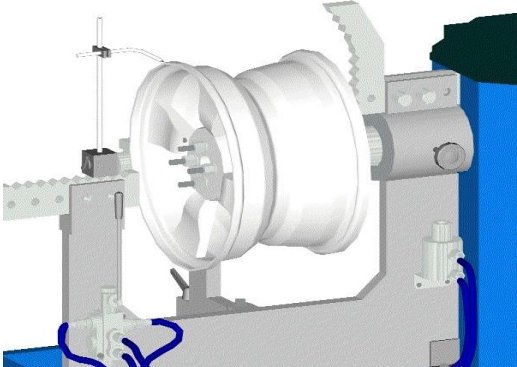
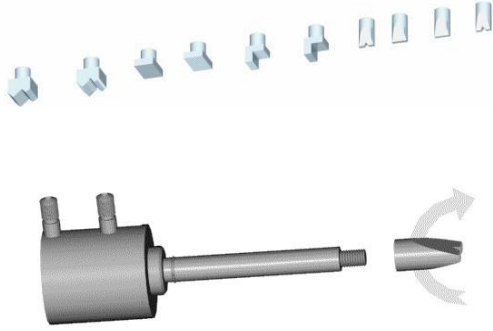
ACCESSORIES including the machine

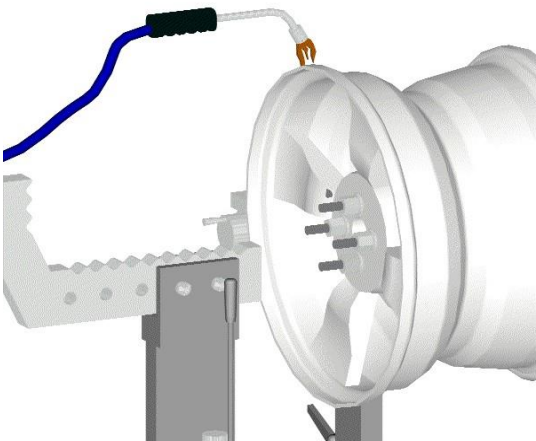
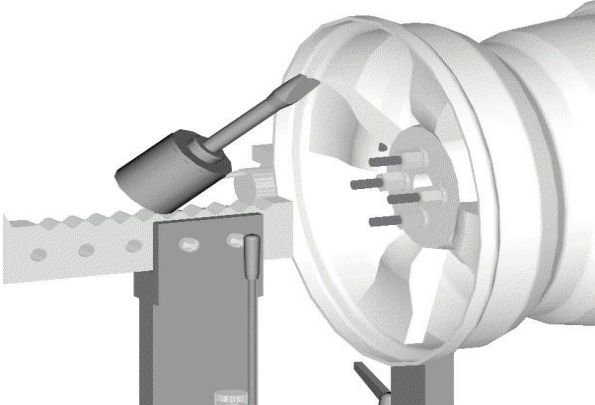
1. 18 pcs rim attaching center
2. 1 pcs metal pointer
3. 5 pcs press tips 4.
4. 4 pcs support axis for press tips
5. 1 pcs lever
6. 1 pcs upper support
7. 1 pcs lower support
8. 4 pcs Support pins
9. Flange nuts and bolts



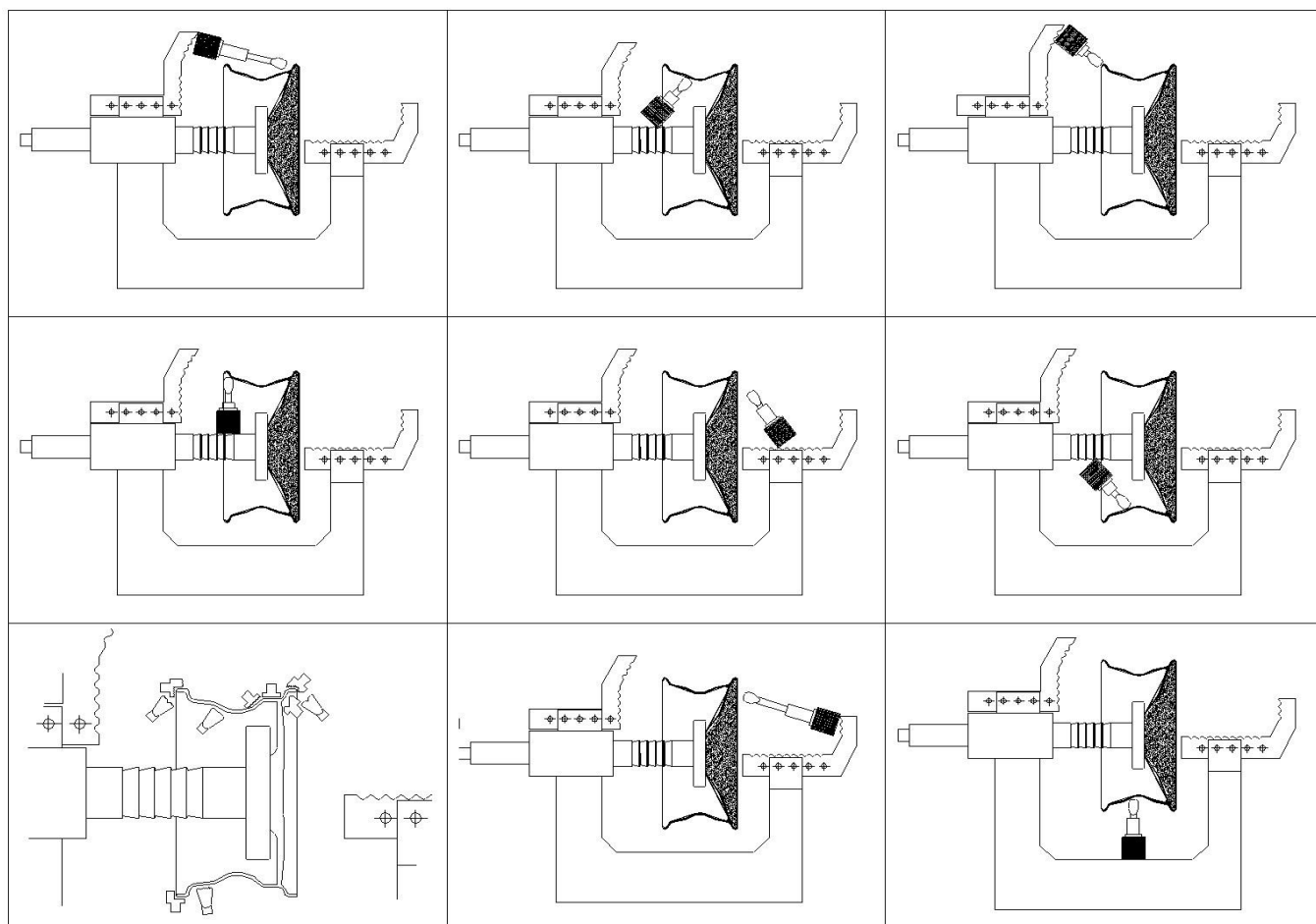
<p>Rim flange</p> <p>Rim attaching flange is designed for different sizes, and kinds of rims.</p>	
<p>Piston control unit</p> <p>It enables us to control the piston</p>	
<p>Hydraulic unit</p> <p>It enables us to push piston up and down.</p>	

Repair Process

<ul style="list-style-type: none"> - Clean soil on rim and remove leads. - Select proper spangle for rim hole. - Put the spangle onto the center of flange and fasten with nuts. - Special nuts are designed for Renault rims, so use these nuts for Renault rims. - Rim is attached by means of center spangles and rim revolves at center. 	
<ul style="list-style-type: none"> - Select proper wrench for rim wrench holes. - Fasten the rim by using proper tools. - Loosen nuts which fix flanges. - Attach touch metal. - Turn the rim by hand. 	 
<ul style="list-style-type: none"> - Determine defected section and mark it by help of metal pointer. - When you turn the rim onto the defected part where it is pressed, fasten flange fixing nut. - Start hydraulic motor. 	
<ul style="list-style-type: none"> - Select proper press tip for the section to be straightened. - After selecting support axel for the tips, fasten the selected tip onto piston. 	

<ul style="list-style-type: none"> - Defected part is mildly heated with blow torch. - Heated defected part is corrected by applying pressure. - After applying enough pressure, straightening is checked by metal pointer. - Same process is applied until rim completely levelled. 	
<ul style="list-style-type: none"> - After this procedure continue lathing process if necessary. 	

RIM CENTRE POINT MEASURES	
Ø 55	CITROEN
Ø 56,6	OPEL
Ø 57	AUDI - BMW - PORCHE 929 - VW
Ø 57	AUDI-BMW 3 SER-PORCHE - VW
Ø 58	CITROEN CX-FIAT RITMO
Ø 58.5	ALFA ROMEO
Ø 60	FIAT
Ø 60,15	RENAULT-R12-R25
Ø 63,3	FORD
Ø 65	CITROEN BX-PEUGEOT 205-302 MINI METRO-OPEL OMEGA
Ø 66,5	DAIMLER BENZ
Ø 69,5	OPEL
Ø 72,5	BMW 5-7 SER-OPEL

PISTON and END POSITIONS for RIM STRAIGHTENING

FAQ

Problem	Reason	Solution
Motor is not running	1. Main voltage is not plugged in 2. Turn on main voltage. 3. Fuses down	1. Plug in 2. Turn on main voltage. 3. Check or change fuses.
Flange is running reverse	Phases are reverse	Check electrical installation Change phases.
Hydraulic system is not working	1. Hydraulic motor is running in reverse 2. Oil leaking at fittings 3. Insufficient oil in tank	1. Check electrical installation Hydraulic system is not working 2. Check fittings and hoses. 3. Full the tank at oil level.

STORING

If you are going to store your machine for a long time in the storing area, cut off main connections (electricity, air, etc.) Empty oil box and cover the parts which can be damaged from dust. Oil the parts which can be damaged from dry air.

SCRAPPING OF MACHINE

If you are not going to use the machine, put it into non-work condition. Make dangerous able parts undangerous. Make as iron scrap and send it to a suitable scrap centre. If there is a valid special regulation, remove the parts and collect the similar parts.

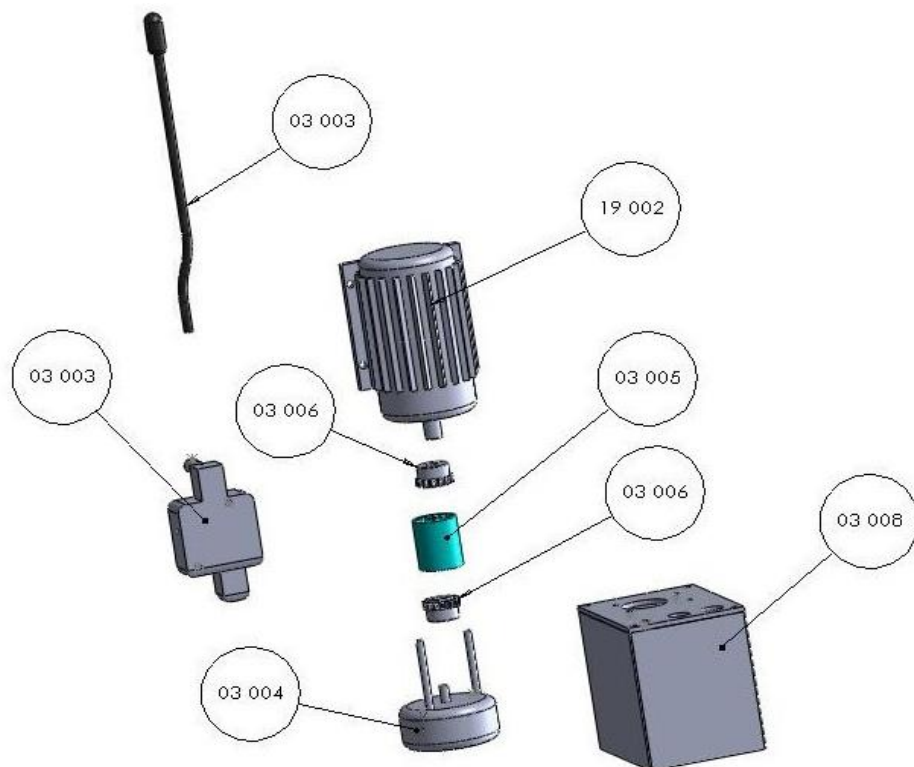
TECHNICAL DATA

Capacity	10"-24"
Max Rim Width	10"
Hydraulic System Motor	0,75 kw 1400 rpm, 1 hp Single phase 220V
Axle motor	0,55 kw 1400 rpm, 0,75 hp Single phase 220V
Working Pressure	0-200 bar (standart 150 bar)
Sound Level	35 dBA
Lenght	1150 mm
Width	750 mm
Height	1400 mm
G.Weight	240 kg
Export Packing Dimensions (box on palet)	1200x800x1430 mm

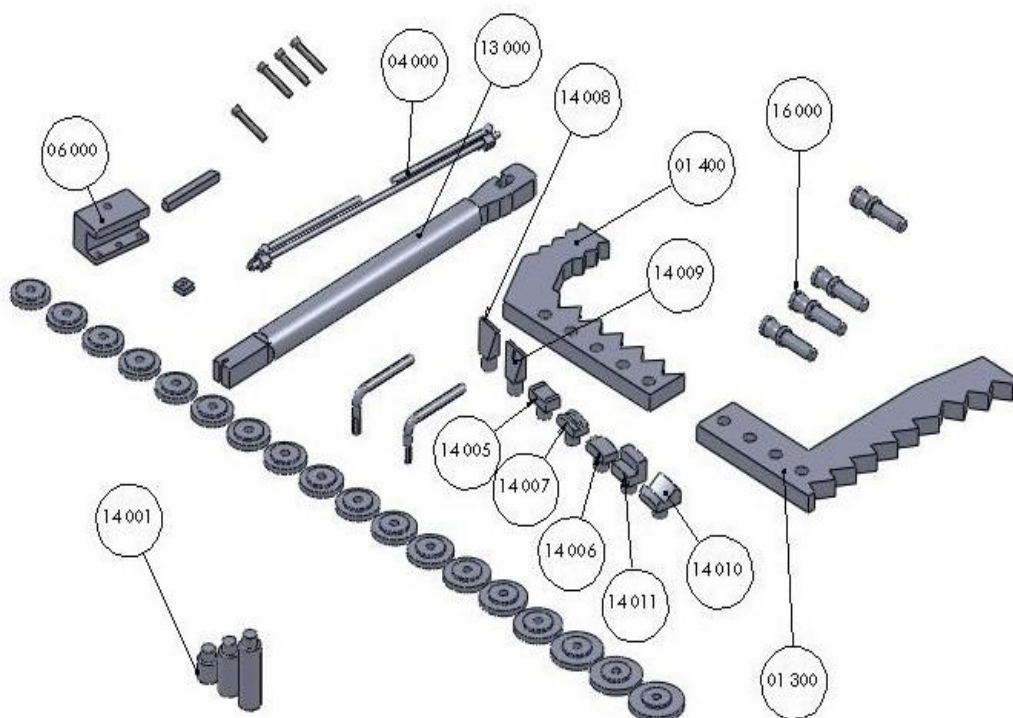
ELECTRICAL DRAWING

Please refer to the provided documentation within SAS (Service and Support)

SPARE PARTS DRAWING

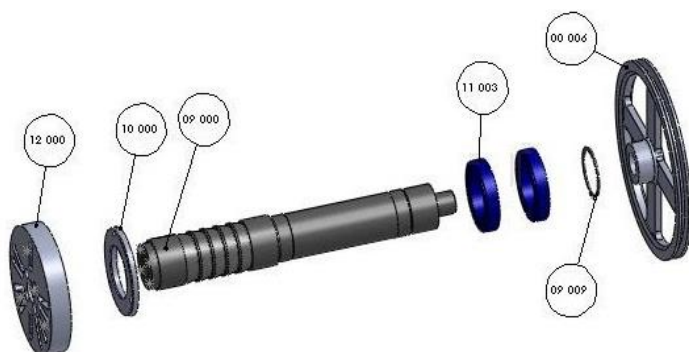


Item no.	Item name.	Drawing no.
WM300-H-1	Wheel straightener - Hydraulics - Control arm & Valve	150 03 03 003
WM300-H-2	Wheel straightener - Hydraulics - Pump adaptor	150 03 03 006
WM300-H-3	Wheel straightener - Hydraulics - A36 Pump	150 03 03 004
WM300-H-4	Wheel straightener - Hydraulics - COUPLING Ø28	150 03 03 005
WM300-H-5	Wheel straightener - Electric motor	150 20 19 002
WM300-H-6	Wheel straightener - Hydraulics - Oil Tank	150 03 03 008

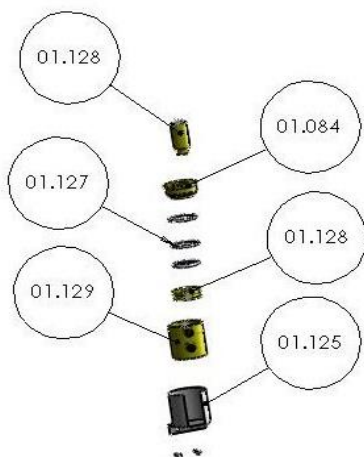


Item no.	Item name.	Drawing no.
WM300-A-1	Wheel straightener - Accessories - Upper bed support	150 03 01 300
WM300-A-2	Wheel straightener - Accessories - Botom bed support	150 03 01 400
WM300-A-4	Wheel straightener - Accessories - Center unit Ø55	150 03 07 001
WM300-A-5	Wheel straightener - Accessories - Center unit Ø54	150 03 07 002
WM300-A-6	Wheel straightener - Accessories - Center unit Ø56	150 03 07 003
WM300-A-7	Wheel straightener - Accessories - Center unit Ø56,5	150 03 07 004
WM300-A-8	Wheel straightener - Accessories - Center unit Ø58,5	150 03 07 005
WM300-A-9	Wheel straightener - Accessories - Center unit Ø58	150 03 07 006
WM300-A-10	Wheel straightener - Accessories - Center unit Ø57	150 03 07 007
WM300-A-11	Wheel straightener - Accessories - Center unit Ø59,5	150 03 07 008
WM300-A-12	Wheel straightener - Accessories - Center unit Ø60	150 03 07 009
WM300-A-13	Wheel straightener - Accessories - Center unit Ø63	150 03 07 010
WM300-A-14	Wheel straightener - Accessories - Center unit Ø65	150 03 07 011
WM300-A-15	Wheel straightener - Accessories - Center unit Ø65,5	150 03 07 012
WM300-A-16	Wheel straightener - Accessories - Center unit Ø66	150 03 07 013
WM300-A-17	Wheel straightener - Accessories - Center unit Ø76	150 03 07 014
WM300-A-18	Wheel straightener - Accessories - Center unit Ø72	150 03 07 015
WM300-A-19	Wheel straightener - Accessories - Center unit Ø72,5	150 03 07 016
WM300-A-20	Wheel straightener - Accessories - Center unit Ø59,5	150 03 07 017
WM300-A-21	Wheel straightener - Accessories - Center unit Ø62,5	150 03 07 018
WM300-A-22	Wheel straightener - Accessories - Internal Press tip	150 03 14 005
WM300-A-23	Wheel straightener - Accessories - External Press tip	150 03 14 006
WM300-A-24	Wheel straightener - Accessories - Split External Press tip	150 03 14 007
WM300-A-25	Wheel straightener - Accessories - Cutting Press tip	150 03 14 008
WM300-A-26	Wheel straightener - Accessories - Split Cutting Press tip	150 03 14 009
WM300-A-27	Wheel straightener - Accessories - Payramid Press tip	150 03 14 010
WM300-A-28	Wheel straightener - Accessories - L Type press tip	150 03 14 011
WM300-A-29	Wheel straightener - Accessories - Pins for bed support	150 03 16 000
WM300-A-30	Wheel straightener - Accessories - Manual bending tool	150 03 13 000

WM300-A-31	Wheel straightener - Accessories - Measuring needle	N/A
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Item no.	Item name.	Drawing no.
WM300-F-1	Wheel straightener - Flange - Rim Axis	150 03 09 000
WM300-F-2	Wheel straightener - Flange - Shell case lid	150 03 10 000
WM300-F-3	Wheel straightener - Flange	150 03 12 000
WM300-F-4	Wheel straightener - Flange - Pully Ø280	150 03 00 006
WM300-F-5	Wheel straightener - Flange - Adaptor	N/A
WM300-F-6	Wheel straightener - Flange - O-ring	N/A
WM300-F-7	Wheel straightener - Flange - Tightning Handle	20488983D



Item no.	Item name.	Drawing no.
WM300-HP-1	Wheel straightener - Hydraulic Piston - Holder	1125
WM300-HP-2	Wheel straightener - Hydraulic Piston - Case	1129
WM300-HP-3	Wheel straightener - Hydraulic Piston - Kephale	1128
WM300-HP-4	Wheel straightener - Hydraulic Piston - O-ring	1127
WM300-HP-5	Wheel straightener - Hydraulic Piston - Clack	1084
WM300-HP-6	Wheel straightener - Hydraulic Piston - Axis	1128

SERVICE AND SUPPORT

Service and support require a service ticket. WheelRestore offers a service ticket system. In addition to support tickets, the platform offers an overview of ongoing service on the machine. This includes files, tasks and software updates. Yearly maintenance can be requested and set up as an event with notifications.

[SAS system \(Service & support system\)](#)

Additional information can also be found in the Wheel Restore Knowledge base here: [SAS Knowledge base](#)