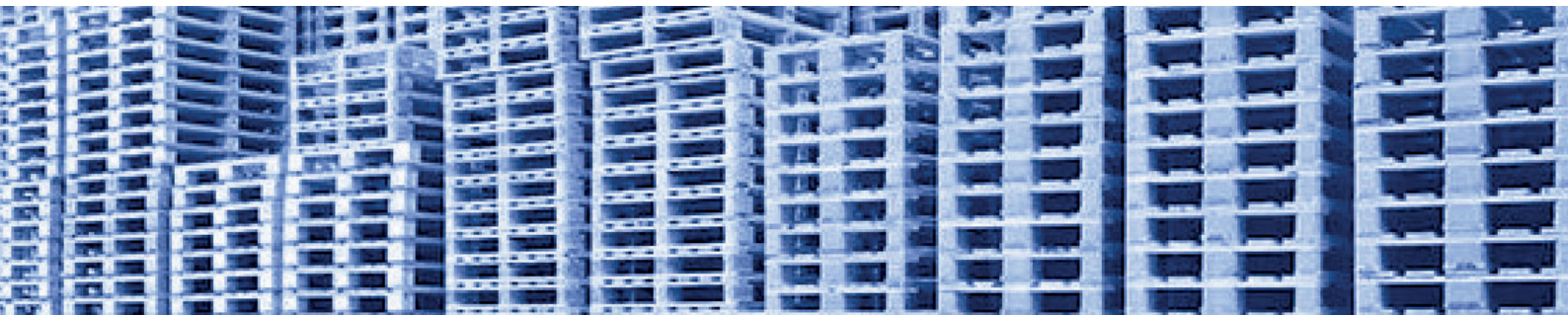# Repair bench for wood/metal pallets (e.g. Dusseldorf pallets)

The All-in-One machine for pallet repair

Secure your competitive advantage by using innovative technology in the repair of Dusseldorf pallets.
With the newly developed straightening and riveting machine, for the first time all steps of the pallet repair are integrated in a single, compact machine.

Benefit from
- High efficiency and small space required
- Reliability and extreme ease of maintenance
- Consistent performance and less downtime due to relief of the operator.
- Improved quality of repaired pallets

Fig. incl. tool-holder and LED lightning (optional)

„How can pallet repair be automated economically?"

With the straightening and riveting machine for Dusseldorf pallets, there is now a viable alternative to manual workstation available. The peculiarity of this new concept: For the first time, all work steps can be done at a single place.
- Bent metal profiles are aligned. Simultaneously, the correct pallet geometry is restored. This is particularly important when the pallet is to be used in automatic systems.
- While aligning, the pallet is fixed to the machine table. In this state, single pallet boards can be easily cut out.
- Rivet joints can be re-riveted effortlessly with the freely positionable riveting head.
- The pallet can be moved or rotated on the table surface without effort.
- Pallet runners can be riveted in a special attachment.

Compared to conventional repair, many advantages result:
- The pallets have to be moved less. The repair capacity is significantly higher, compared to pallet repair with hand held hammer.
- The quality of the repaired pallets improves, due to better aligned metal profiles and correct rivet joints.

- By fixing the pallet on the machine table, single pallet boards can be easier cut out with the reciprocating saw.
- Working safety is enhanced. All machine functions are controlled and monitored by a safety controller.
- The noise level in the range of pallet repair is reduced to a minimum.
- Working performance remains constant, because the employee is relieved from heavy physical work.
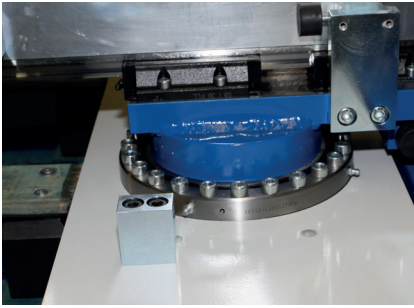- The employee motivation is increased.

Besides functionality, we place a great emphasis on ease of use. Few, clearly arranged controls allow new employees to easily get to grips with the machine.
To enable riveting both sides of the pallet, the machine table can be lifted 20 mm with a single keystroke.
The machine is designed and built to work for many years with a minimum of maintenance.
To achieve this, specially developed plastic bearings are used for the aligning guides, that do not longer need lubrication.
The straightening dies are made of hardened steel, all guides and bearings are generously dimensioned.
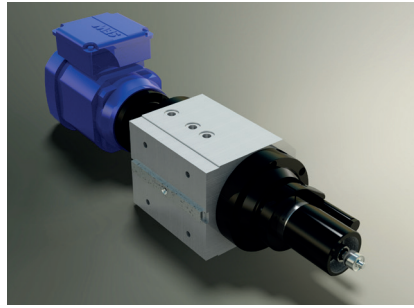
1 Robust bearings for a long life

Solid guiding shafts and hardened straightening dies withstand harshest environments.

- The straightening dies and guiding shafts are connected positively to prevent rotation and withstand even harsh treatment.
- The guiding shafts move in specially developed plastic slide bearings that do not require lubrication. Due to this, the adhesion of dirt is minimised.

2 Riveting without effort

The wobble riveting unit can be positioned quickly and precisely due to linear guide and pivot bearing.

- The guides are so smooth, that they can be moved with one finger. However, the riveting force of 12,5 KN can be absorbed without problems.
- The riveting process is started by slightly pressing the handle. Releasing the handle moves the riveting unit up.
- Through the wobble riveting process, durable rivet joints of high quality are produced.

3 Versatility

Pallet runners can be separately riveted in a special attachment.

- Through the table height adjustment, both sides of the pallet can be riveted without moving the pallet.
- A dust cover prevents dirt to get into the machine.
- The side table support (with integrated tool tray) allows simple and secure pallet disassembling.
- The machine is optionally equipped with a holder for a balancer and a robust LED-lightning.

4 Performance and efficiency

A powerful hydraulic unit in conjunction with a hydraulic cylinder ensure sufficient force.

- The straightening dies build up a maximum force of 33 KN and take only 2 sec. for a whole stroke.
- Tubular rivets with a wall thickness up to 1 mm are effortlessly processed with the integrated wobble riveting unit.
- During breaks, the motors are switched off automatically to save energy.

SOLUTIONS FROM A SINGLE SOURCE

mba offers machinery in the range of pallet manufacturing, pallet repair and industrial robotics. Besides standard solutions, our main competence covers the area of individual machine concepts with high usability and profitability.
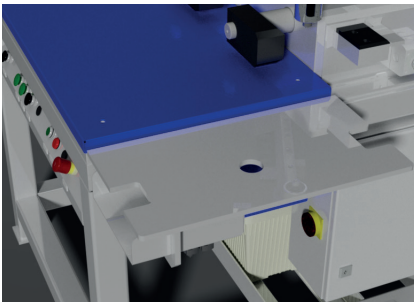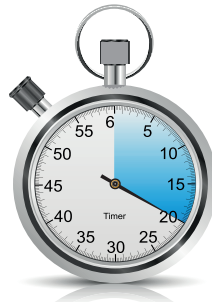
MADE IN GERMANY

We manufacture our machines in house and can therefore respond flexibly to customer demands.

AT HOME IN YOUR BUSINESS

We supply the pallet industry for many years and we are aware of the essential requirements – Reliable and robust technology with high usability.

MORE INFORMATION?

You want more information or have any questions about our products or services. Then visit our website or call us directly.
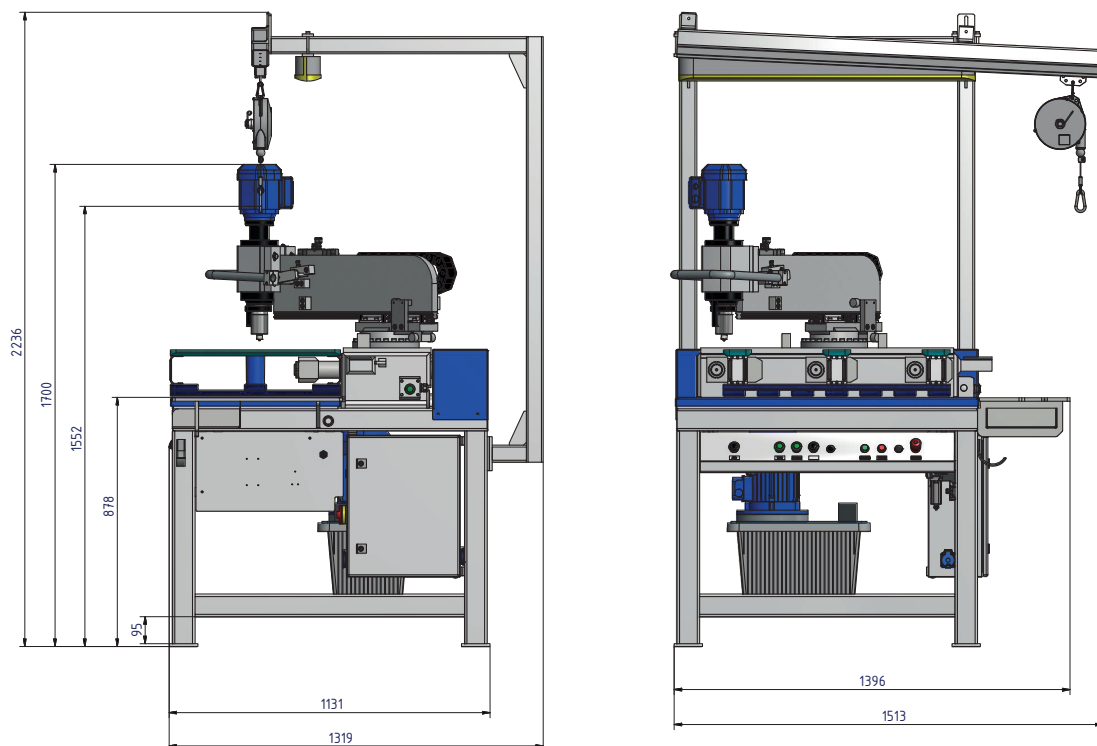
Technical specification

Fig. incl. tool-holder and LED lightning (optional)

Type: Straightening an riveting machine for wood/metal pallets (e.g.Dusseldorf pallets)

Dimensions (L x W x H): 1400 x 1130 x 1785 mm

Weight: approx. 450 kg

Fluid media (pneumatic): compressed air (oiled or unoiled), 8 bar (116 psi)

Fluid media (hydraulic): Hydraulic oil ISO-VG 46, capacity 30 l

Electrical connection: 3x400V+N+PE, 16 A

Safety features: Safety controller, Two hand switch, enable switch

Delivery: operational, without hydraulic oil filling

Technical specifications and Photos are not binding and may be subject to change.
Technical changes made during the course of further development are reserved.