Leveling with precision levelers







When sheet metal & heavy plate are turned into perfect parts and assemblies with tight tolerances you have to be able to rely on the material. This cannot be taken for granted:

many sheets & heavy plate contain residual stresses and distortions which can interfere with further processing.

Residual stresses in the material can arise in different ways: thermal cutting processes, such as lasers or oxyfuel and plasma cutting, introduces a great deal of heat into the material at the cutting beam. This releases stresses or introduces additional stresses into the material due to the heat. As a result, the sheet metal parts become warped after cutting. During roller leveling, a sheet metal part undergoes several alternating bends, making it flat and virtually stress-free. This means that punched, laser or flamecut parts can be flattened in just a few seconds.

During roller leveling, sheet metal and heavy plate become flat and are stress-relieved through alternating bends.

What are the benefits of using a precision leveler?

Eliminate residual stresses and distortions



Rolling, mechanical or thermal cutting processes and the effect of heat can cause residual stresses within the material. These stresses can be removed with a precision leveler.



Avoid production errors

Unleveled sheets metal & heavy plate can cause angularity errors during downstream processes such as bending and folding.



Achieve tight tolerances

Welding robots rely on tight tolerances. If a part deviates too much, it ends up as scrap, which slows down production and increases costs. Leveling before welding allows the robot to achieve its full potential in terms of accuracy.



Simple operation

The leveling process is easy to use and does not require extensive training. It can be quickly integrated into existing production processes.

Function & efficiency



Scan the code and learn more about ARKU precision levelers



Superior leveling results with servohydraulic gap control

During leveling, fluctuating forces act on the material and the leveling unit, especially with thick material. The FlatMaster® series with servo-hydraulic gap control keeps the leveling gap constant - for consistently precise results.

Safety through effective overload protection

Large forces act on the material and the machine during leveling. To prevent damage to the precision leveler, the FlatMaster® is equipped with hydraulic overload protection. Hydraulic systems react quickly enough to absorb overload peaks. The precision leveler is therefore protected from damages.

FlatJack® - flatness control directly on the precision leveler

Thanks to the integrated FlatJack®, punched, laser and flame-cut parts can be checked quickly and precisely. Flatness is measured both before and after leveling. The FlatMaster® control system records the flatness values within a tenth of a millimeter range and allows them to be retrieved at any time.



Gap control



FlatJack® flatness control system



RollerPickup® for quick cleaning and maintenance.





EcoMaster® – the leveler series for sheet metal from 0,1 up to 5 mm thick

| | EcoMaster® 12 | EcoMaster® 25 | EcoMaster® 30 |
|----------------------|---------------|---------------|-----------------------------|
| Part thickness (mm) | 0,1-1,25 | 0,2-3,0 | 0,3-5,0 |
| Max. part width (mm) | 150 | 300, 500, 800 | 300, 500, 800, 1.100, 1.300 |
| Automatic setting | - | optional | optional |
| Digital display | - | Standard | Standard |
| CE-certification | Standard | Standard | Standard |

We are happy to offer you other models upon request.

The EcoMaster® precision leveling machine ensures optimum leveling results for sheet metal parts with a thickness of 0,1 mm up to 5 mm. Thanks to its simple operation and ease of maintenance, the EcoMaster® can be quickly integrated into your production and contribute to an efficient workflow.

FlatMaster® – the servohydraulic leveler for sheet metal & heavy plate from 0,5 up to 60 mm thick

| | FlatMaster® 55 | FlatMaster® 88 | FlatMaster® 120 | FlatMaster® 140 | FlatMaster® 180 |
|------------------------|----------------------|-----------------------------|------------------------|------------------------|------------------------|
| Part thickness (mm) | 0,5 – 15,0 | 1,0-28,0 | 1,5 – 40,0 | 2,0-45,0 | 4,0-60,0 |
| Max. part width (mm) | 800, 1.250, 1.650 | 800, 1.300, 1.600, 2.000 | 1.300, 1.600, 2.000 | 1.300, 1.600, 2.000 | 2.000, 2.500, 3.000 |
| Quick-change system | Standard | Standard | Standard | Standard | Standard |
| Gap control | Standard | Standard | Standard | Standard | Standard |
| Overload protection | Standard | Standard | Standard | Standard | Standard |
| НМІ | Touchscreen | Touchscreen | Touchscreen | Touchscreen | Touchscreen |
| CE-certification | Standard | Standard | Standard | Standard | Standard |
| | | | | | |

We are happy to offer you other models upon request.

The FlatMaster® series ensures the best leveling results for sheet metal parts & heavy plate from 0,5 to 60 mm thick. Key features include the gap control and the hydraulic overload protection.

Scan the QR code and learn more about ARKU precision levelers



