



Precision Levelers

for stamped, laser- and flame-cut parts

ARKU
EXPERTS IN LEVELING



ARKU precision levelers – what do customers say?

"Essentially, every sheet metalworking company should have a parts leveler. This significantly simplifies processing the laser-cut parts."

CEO of a sheet metalworking company

"The FlatMaster® provides us with enormous added value when working with sheet metals. Only afterwards did we notice the positive effects that flat sheet metals have on our entire steel working process."

Production Manager for a heavy duty transport manufacturer

"The lead times are shorter for edging or welding because not every sheet has to be corrected."

CEO of a metalworking company

"The FlatMaster® levels the parts five times faster than our straightening press. In addition, the leveling results have improved significantly, which enables the parts to be welded more quickly and more precisely."

Chief Operating Officer of a crane manufacturer

"Most of all, our employees in welding department profit from the ARKU FlatMaster®."

Production Manager of a machinery manufacturer

"Our precision leveler has been providing consistently good leveling results for almost 15 years."

Production Manager of a machine builder



Roller leveling with the FlatMaster® – the economical and rapid leveling process for sheet metal parts

The roller leveling process

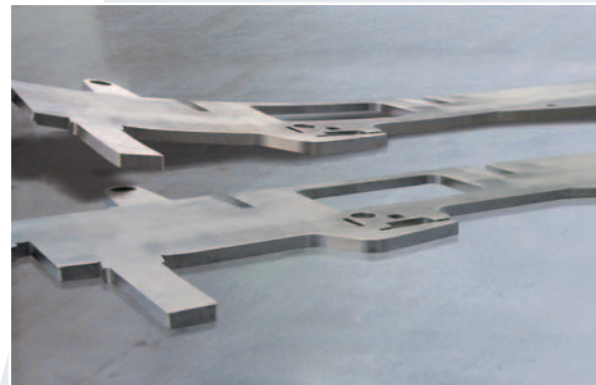
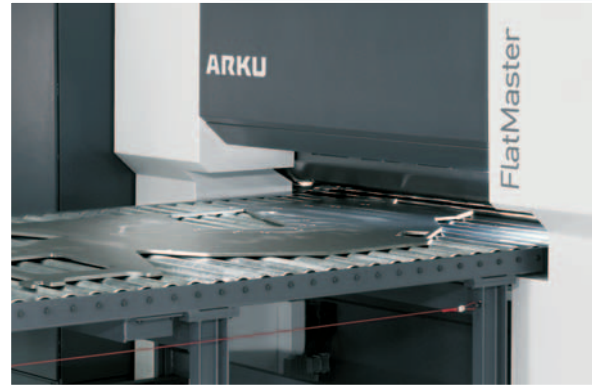
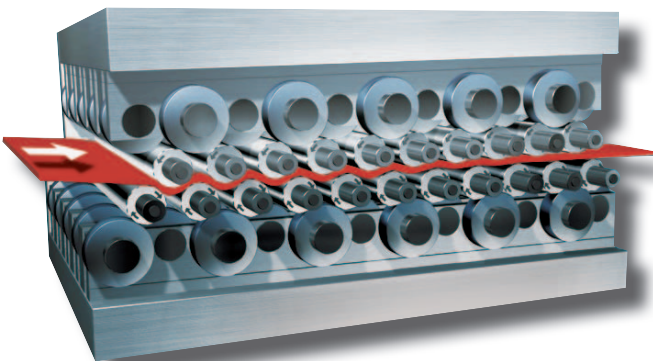
In the roller leveling process a sheet metal part passes through a series of alternating bends. The material is shaped in such a way that the finished result is flat and almost stress-free.

The lower the residual stress in a sheet metal part, the better the results during the subsequent production steps such as welding, bending or creasing.

Leveling with the FlatMaster® is simple and fast in comparison to other leveling processes. Punched, laser-cut or flame-cut parts which require hours of manual straightening are leveled within a few seconds.

Advantages of roller leveling:

- Flat and almost stress-free parts
- Significantly faster and more economical than alternative leveling processes
- Simple processes without extensive training requirements
- Foundation for reliable welding, bending and creasing
- Reduces rework and rejects




0,73

0,73 mm

F_{max}

0 %

0 %

0005

1 / 1

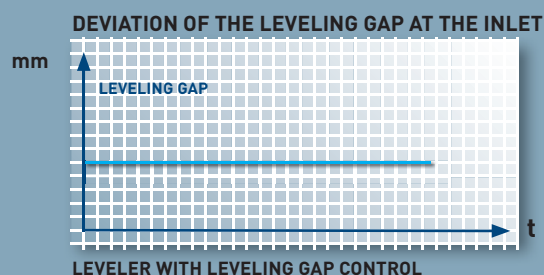
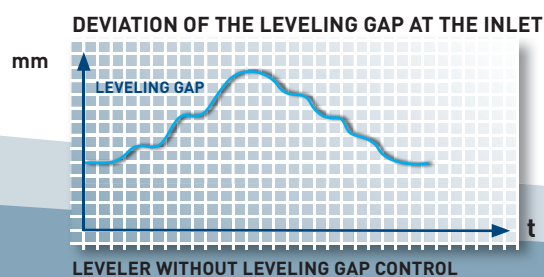


Consistently good leveling results with leveling gap control

Fluctuating forces affect both the parts and the leveler during the leveling process. Especially when working with thick materials with varying cross sections.

As a result, the precision leveler maintains a constant leveling gap despite the fluctuating and varying forces. This delivers consistently good leveling results.

The FlatMaster® is equipped with a servo-hydraulic leveling gap control.

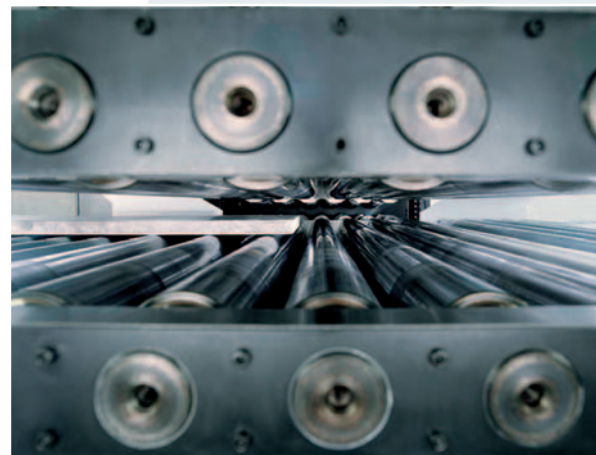


The FlatMaster® series of levelers is equipped with the servo-hydraulic leveling gap control.



Safety due to effective overload protection

During the leveling process both the parts and the machine are exposed to immense forces. The FlatMaster® utilizes a hydraulic overload protection system to prevent damage to the leveler. Hydraulic systems react fast enough to compensate sudden overloads. As a result, the leveler is optimally protected.



▲ The FlatMaster® hydraulic overload protection safeguards both the drive system and the leveler against damage.



▲ FlatMaster®88 TwoWay
The "TwoWay" option enables sheet metal parts to be processed in both directions.



Quick change of leveling and back-up rollers

During production, dirt and material residue accumulate inside the leveler. Thoroughly cleaning the leveling and back-up rollers reduces the wear on the leveler.

For this reason ARKU precision levelers are equipped with a unique leveling roller quick-change system. The leveling rollers can be changed and the leveler thoroughly cleaned in a short period of time.

RollerPickup® - ideal for short cleaning times

Frequent cleaning of the leveling unit maintains a consistent quality. This serves to minimize soilings and markings on the materials surface. The RollerPickup® change system saves a large amount of time, especially when the leveling rollers are cleaned frequently.





Leveling demonstrations and contract leveling of sheet metal parts

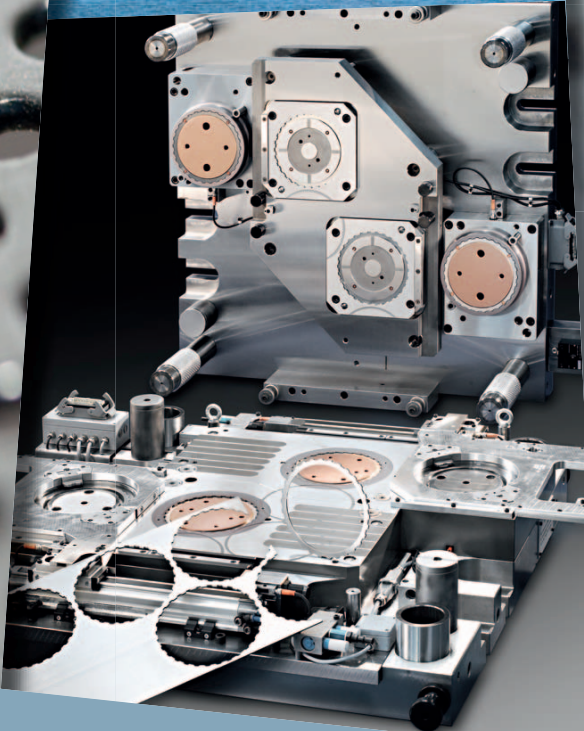
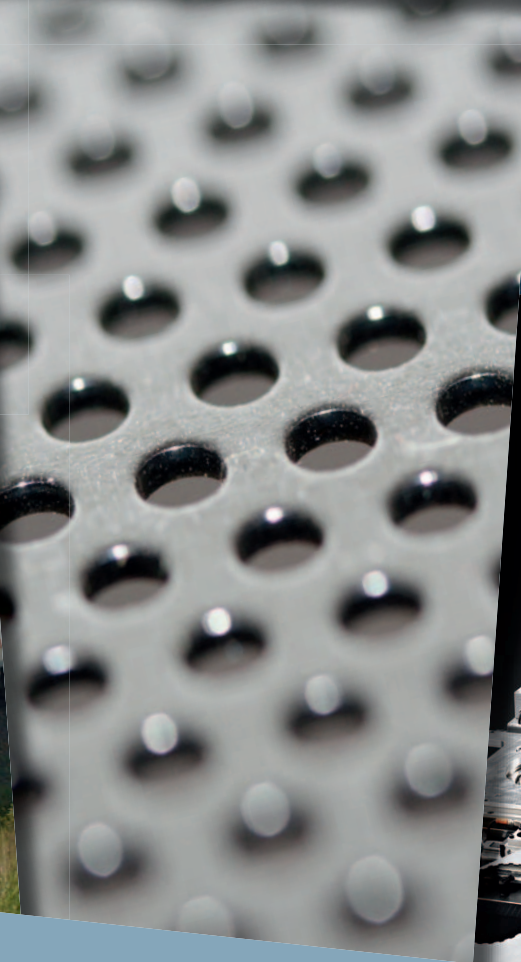
Visit us and convince yourself of the performance of ARKU's precision levelers - preferably with parts from your own production. Our leveling centers offer a large range of precision and high-performance levelers. We offer both leveling demonstrations and contract leveling. Profit from the results of numerous leveling demonstrations and our extensive expert knowledge.

ARKU possesses a comprehensive network of customers with ARKU levelers. We would be happy to put you in touch with a customer close to you.





Our parts levelers are utilized in a variety of different industries.
 The customers' portfolios range from thin sheet metal to thick steel plates.
 With ARKU levelers you are making an investment in optimizing your processes.




EcoMaster® – the leveler series for sheet metal parts from 0.15 to 5 mm

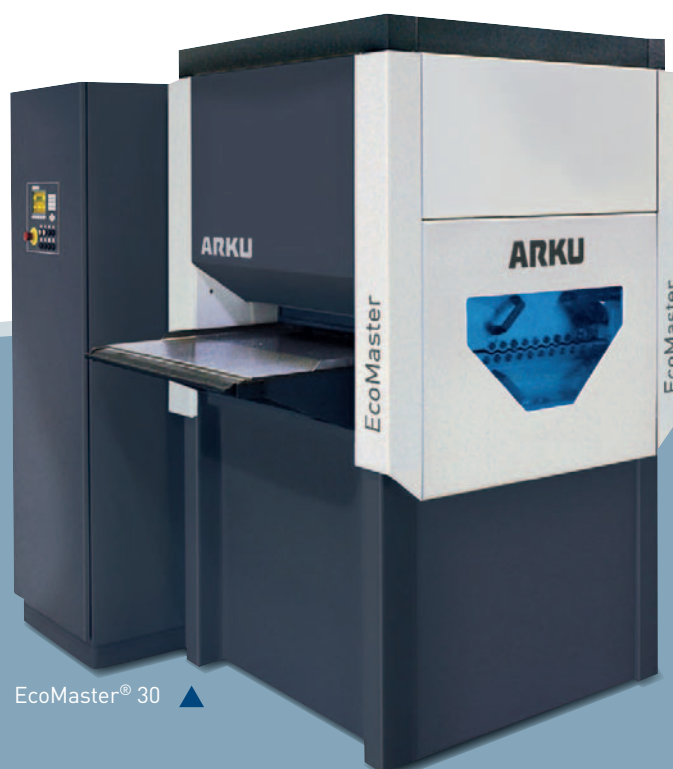
| | EcoMaster® 10 | EcoMaster® 25 | EcoMaster® 30 |
|-------------------------|---------------|---------------|-----------------------------|
| Parts thickness (mm) | 0.15 – 1.25 | 0.25 – 3.0 | 0.35 – 5.0 |
| Max. passage width (mm) | 120 | 300, 500, 800 | 300, 500, 800, 1,100, 1,300 |
| Motor settings | - | optional | optional |
| Digital display | - | standard | standard |
| CE-certification | standard | standard | standard |

We are happy to offer you additional models upon request.



 Measuring calipers option:
The clever tool for automatic thickness measurement.

The EcoMaster® series of precision levelers delivers good results when working with thin sheet metal parts. Its easy operation and maintenance-friendly design ensure efficient operation in your production.



EcoMaster® 30 

FlatMaster® – the servo-hydraulic parts leveler series for sheet metal parts from 0.5 mm to 60 mm

| | FlatMaster® 55 | FlatMaster® 88 | FlatMaster® 120 | FlatMaster® 140 | FlatMaster® 180 |
|--|--------------------|--------------------------|---------------------|---------------------|---------------------|
| Parts thickness (mm) | 0.5 – 12.0 | 2.0 – 23.0 | 3.0 – 35.0 | 4.0 – 43.0 | 6.0 – 60.0 |
| Max. passage 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 for leveling rollers | optional | optional | standard | standard | standard |
| Leveling gap control | standard | standard | standard | standard | standard |
| Overload protection | standard | standard | standard | standard | standard |
| Visualisation | Multi-touch screen | Multi-touch screen | Multi-touch screen | Multi-touch screen | Multi-touch screen |
| CE-certification | standard | standard | standard | standard | standard |

We are happy to offer you additional models upon request.

The FlatMaster® series delivers the best leveling results for sheet metal parts from 0.5 to 60 mm. The distinctive features include the leveling gap control and the hydraulic overload protection. The FlatMaster® is the result of 40 years of experience in manufacturing precision levelers.



▲ FlatMaster® 180

ARKU – The experts in leveling of sheet metal and coils

ARKU represents more than 40 years of experience in manufacturing levelers and coil lines. As a market and technology leader in leveling technology we offer the broadest range of high-performance and precision levelers in the world. ARKU maintains leveling and service centers on three continents:

- Baden-Baden (Germany)
- Cincinnati (USA)
- Kunshan (China)



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