

Precision levelers for laser and flame-cut parts

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Roller leveling with the FlatMaster® – The economic process for flat flame-cut parts



Precision levelers from ARKU – What do the customers say?

”Our precision leveler has been providing consistently good leveling results for almost 15 years”
Production Manager of a machine builder

”Since we started using the FlatMaster®, we’ve had better results when welding components”
General Manager of a sheet metal processing company

”We can level even difficult flame-cut parts in a matter of minutes with the FlatMaster®”
General Manager of a flame-cutting company

”We’re very impressed with the quick change system for the leveling rollers. Cleaning the leveling unit is quick and easy”
Engineering Manager of a laser job shop

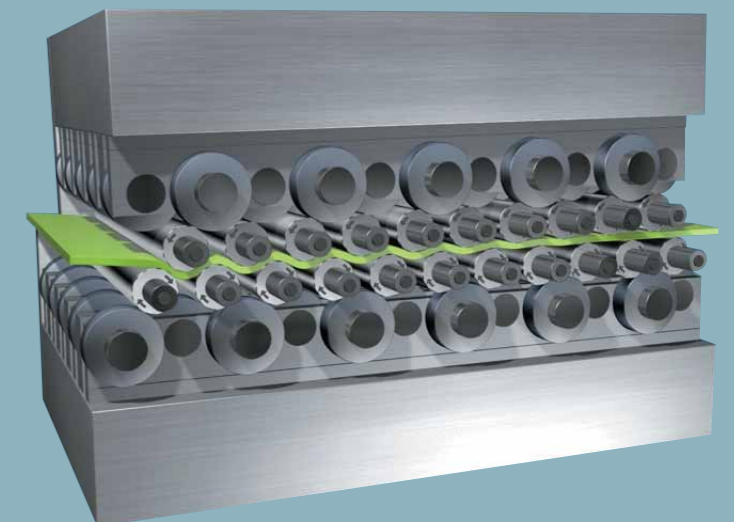
”ARKU service is available when we need it; right around the clock”
Maintenance Manager of a construction machinery manufacturer

In roller leveling, a sheet metal part is deformed by a series of alternate bends so that in the end it is flat and nearly stress-free. The smaller the residual stress in the flame-cut parts, the better the results in subsequent welding, bending or chamfering processes.

Compared to other leveling methods, the FlatMaster® is quick and easy. Difficult flame-cut parts, which can take hours to straighten manually, are flat in just a few minutes with the FlatMaster®.

Advantages of roller leveling:

- Flat flame-cut parts in just a few minutes
- Simple process with no major training required
- Better results when welding, bending or chamfering
- Reduced rework and scrap



FlatMaster® Hydraulic parts levelers



FlatMaster® – Consistently good leveling results

The FlatMaster® hydraulic precision leveler is equipped with a leveling gap control.

That means the leveling results are consistently good, even in applications where parts have cut-outs. User-friendly operator instructions and setting-memory make the FlatMaster® easy to operate. The integral suggestion system even recommends which part-specific settings the operator should use.

Safety due to effective overload protection

Large forces act on the sheet metal part and on the machine during the leveling process. With mechanical levelers, incorrect settings can cause the machine components to overload. The FlatMaster® has effective protection to guard against such overloading. The machine stops and opens the leveling unit before a dangerous level of force is reached.

Which industries use the FlatMaster®?

- Laser job shops
- Flame-cutting companies
- Construction machines
- Mechanical engineering
- Steel service centers
- Aircraft industry
- Automobile industry
- Perforated sheet production
- Electrical industry
- Circular saw blades, and many more

ARKU leveling center – Leveling trials with parts from your manufacturing facility

Levelers are always available for trials in our leveling center. See the performance of ARKU precision levelers – we will even test parts from your own manufacturing facility. Our leveling experts will help you find the right machine for your application.



FlatMaster® – the leveler range for sheet metal parts from 0.5 to 50 mm thickness



Quick change of leveling and back-up rollers



Dirt and material residues can accumulate in the leveling unit during daily production. Thorough cleaning of the leveling rollers and back-up rollers provides consistent leveling results and prevents damage due to contamination of the leveling unit. For this reason, the FlatMaster® is fitted with a quick change of the leveling rollers. The leveling rollers can be changed, and the unit thoroughly cleaned, in minutes.

RollerPickup® – Ideal for short cleaning intervals

When different materials are processed in rotation, frequent cleaning of the leveling unit provides consistent quality. This minimizes scratches and blemishes on the material surface. With the RollerPickup® roll change system, considerable time savings are achieved, especially when the leveling rollers require frequent changes.

The FlatMaster® range produces consistently good leveling results for sheet metal parts from 0.5 to 50 mm thickness. The FlatMaster® is the result of more than 40 years experience in the manufacture of precision levelers.

The FlatMaster® is used by leading manufacturers of construction machinery, experts in crane equipment and flame-cutting specialists.

	FlatMaster® 50	FlatMaster® 80	FlatMaster® 120	FlatMaster® 160
Sheet thicknesses (mm)	0.5 – 12.0	2.0 – 23.0	3.0 – 35.0	4.0 – 50.0
Max. aperture widths (mm)	800, 1250, 1650	800, 1300, 1600, 2000	1300, 1600, 2000	1600, 2000
Quick change leveling rollers	optional	optional	standard	standard
Chrome-plated leveling rollers	optional	optional	optional	optional
Adjustment	hydraulic	hydraulic	hydraulic	hydraulic
Display	graphic display	graphic display	graphic display	graphic display
CE certification	standard	standard	standard	standard

Other designs are available upon request.

**More than 3000 ARKU levelers are in use throughout the world.
ARKU provides a wide range of precision levelers for every
possible application:**

- Precision levelers for intricate electrical sheets
- Precision levelers for the aircraft and space industry
- High-capacity levelers for perforated sheets
- Precision levelers for stamped and laser-cut parts
- Precision levelers for thick flame-cut parts

A variety of levelers is always available in our leveling center for trials.



Parts Levelers



Cut-to-length and punching lines



Press feeding lines



Coil preparation lines for roll formers

www.arku.com

ARKU Maschinenbau GmbH
Siemensstrasse 11
76532 Baden-Baden
Germany
Phone +49 (0) 72 21 / 50 09-0
Fax +49 (0) 72 21 / 50 09-11
info@arku.com, www.arku.com

ARKU
experts in leveling