



### Highlight technique

Gentle and complete processing



### Sustainability

No blasting media or chemical processes



### Efficiency

Time and cost savings

The manufacture of screws, nuts, clips and other small components places high demands on surface treatment, regardless of the geometry of the respective workpiece. Every day, thousands of kilograms must be prepared for the application of zinc flake coating or electroplating. For this process step, the surfaces must be cleaned, because only clean surfaces provide the condition for a long service life and good corrosion protection.

Our laser-based surface pre-treatment now offers a completely new approach to the optimal preparation of metallic bulk materials for this previously very energy-intensive and costly process. In our fully automated LAMA systems, we clean up to 1,000 kg/h of bulk material and more. Compared to the methods currently in use, such as chemical cleaning or blasting, laser technology offers decisive advantages:

1. **Residue-free cleaning without the use of chemicals**
2. **Reproducible quality thanks to reliable process control**
3. **Cost savings due to significantly lower energy consumption**
4. **Reduction of emissions and resource conservation**

SLCR systems can be flexibly integrated into existing or new, semi- or fully automated production lines. This enables us to deliver future-proof solutions for a scalable and cost-effective production.

# LIGHTCLEANER WAVE LINE

in the manufacture of screws, nuts, clips and many more.


## EXTENSIVE TEST SERIES

Together with our partners DÖRKEN and Benseler, and with the support of several customers, we have conducted extensive tests under industrial conditions over the past four years. Both, simple geometries of screws, nuts and rivets, as well as geometrically more complex parts, were successfully processed using the LAMA system.



## SIMPLY WITH LIGHT

Laser radiation cleans all metallic materials gently and in an environmentally friendly manner without pre- or post-processing.

**GREEN TECHNOLOGY**   
No chemicals, no other media.  
Simply with light.

**MORE INFORMATION**



## FRAGEN?

We look forward to hearing from you:

Telephone: +49 2423 950 93-0  
E-Mail: lama@slcr.de



LAMA – The compact system with a small footprint for cleaning bulk materials

Thanks to flexible plant concepts and reliable open control systems, our systems can be efficiently integrated into both: new and existing production lines.

Parameter	Performance
System performance	500 – 1.500 kg
Loading capacity per batch (depending on component)	30 - 250 kg per batch 30 – 120 l
Energy consumption	approx. 15 KW / h
System Footprint	2,5 m x 5,5 m (WxL)
Deliverytime	approx. 9 month
Testing	Possible at any time – appointment coordination required

**SLCR Laser Technology** – reliable laser processes for state-of-the-art manufacturing technologies. Give us a call or send an email to lama@slcr.de