

M10 SOLAR CAMPUS



Competence and innovation center for the solar industry

Development, production and service – the performance areas at M10 Industries AG are perfectly dovetailed to suit each other's needs. This is possible through the close connection to our subsidiary, SI Module GmbH, in a state-of-the-art location: the M10 Solar Campus.

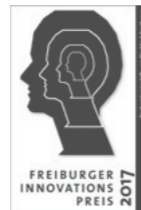
Benefit from twenty years of experience

During the development of highly productive systems for photovoltaic automation, M10 Industries uses the technical know-how of personalities, who have set milestones in the history of solar industry. KUBUS, the most recent generation of machines, stands in the tradition of great solar innovations – and provides your business with new opportunities on the global market.

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KUBUS
EXPECT EVEN MORE

flyer V1.1 03.2017
www.designconcepts.de

**10 % UPGRADED
PERFORMANCE**

5500

24/7
Production

190
MW/year

Cells/h

≥ 98
% Uptime



1
Operator

3-4-5-6
Busbar

35
m² Footprint

www.m10ag.de

KUBUS: THE NEXT STRINGER

If productivity and economic efficiency determine the direction your business takes, you should get to know KUBUS – the first multi-tray stringer to set industrial standards.

Redefining performance

With 5,500 cells per hour, KUBUS has revolutionized soldering technology for crystalline solar cells. The innovative multi-stringer makes an important contribution to the future sustainability of your business – not only when it comes to increasing capacities. Expand your range of products through the production of 3, 4, 5 or 6 busbar – and remain free to choose your own raw materials and suppliers at the same time!

Your advantage with regard to efficiency

By choosing KUBUS you are opting for pioneering technology that will provide your business with noticeable cost benefits: this highly productive system requires less space than less efficient multi-stringers and runs continuously as a one-man operation.

At a glance:

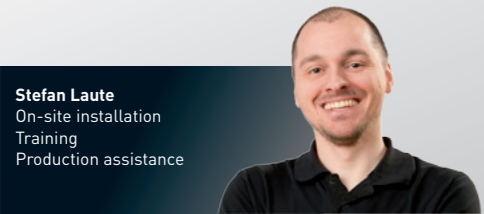
- Maximum productivity of 5,500 cells/h
- 3, 4, 5 or 6 busbars; half-cells, PERC
- Minimal space requirements
- One-man operation



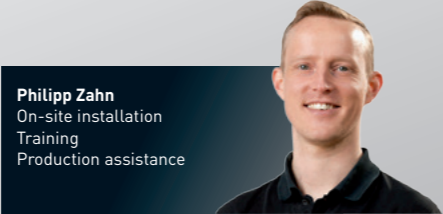
- 1 Cell-Loader
- 2 Ribbon-Supply
- 3 Soldering-Unit
- 4 Tray-Transport

Our Service Team:

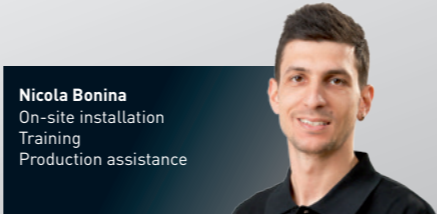
RELY ON THE EXPERTS WHEN EVERY MINUTE COUNTS!



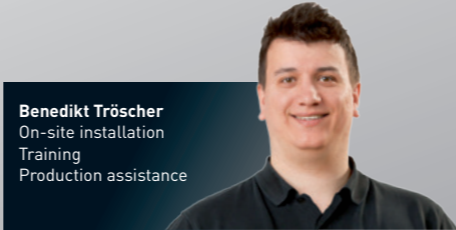
Stefan Laute
On-site installation
Training
Production assistance



Philipp Zahn
On-site installation
Training
Production assistance



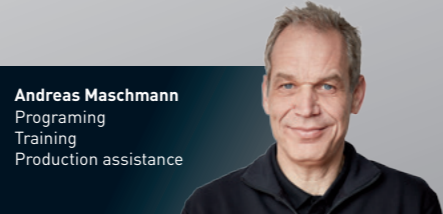
Nicola Bonina
On-site installation
Training
Production assistance



Benedikt Tröscher
On-site installation
Training
Production assistance



Frank Haist
On-site installation
Training
Production assistance



Andreas Maschmann
Programing
Training
Production assistance



Christian Reichling
Programing
Training
Production assistance

EXPERTS AT YOUR SIDE

Our high-performance service center is located on the premises of M10 Solar Campus in Freiburg, Germany. From here our team provides you with highly qualified 24/7 support; this is where we implement material tests for you (incl. preliminary acceptance) and provide training. Yet our service reaches even further: in addition to installing and running-in the multi-stringer at every customer location, we also provide effective ramp-up assistance on request, as well as long-term support of your production processes.

INSTANT ADDED VALUE

Optimized for maximum system availability and absolute production reliability from the start! By choosing KUBUS you are provided with the best machine on the market, ideally trained staff and first-class all-round service.

COMMERCIAL BENEFITS

190 MW | 22,5/7* 350 | 98% Uptime | 4.5 W p. cell

25–30 MW more because no stop needed for ribbon coil change
→ Equals over 90,000 modules per year at no additional costs
→ 12.5–15 Mio. € more turnover per year (0.5 € / W)

No ribbon cutting needed; each string is separately adjustable
→ This saves approx. 75,000 € per year material waste per machine

Only 35 m² Footprint – Combined with highest throughput in market
→ This leads to 1/3 operating and front end acquisition costs, compared to the standard machines on the market

* Calculation base 24/7 possible

CONSISTENT PRODUCTIVITY

With KUBUS your competitors are kept on their toes. Consistently decoupled processes guarantee non-stop operation during most maintenance work and servicing. In this way you can ensure the greatest possible output at any given time.

Sophisticated design – tried-and-tested down to the last detail
KUBUS sets new standards – even in terms of maintenance. By means of modular construction, all components are ideally accessible. The high level of user-friendliness, the ergonomic design and the uncompromising “Made in Germany” quality workmanship are strictly based on the requirements of uninterrupted production.

Benefits that pay off:

- Non-stop production, even during refilling materials
- High redundancy for maximum productivity during maintenance
- Soldered cell matrix on a tray and contactless soldering for highest precision
- Non-contact soldering process
- 6” half-cells

AT CUSTOMER LOCATIONS

Our services for you:

- Installation of KUBUS multi-tray stringer
- Commissioning and product set-up
- Final acceptance with customers
- Training of operators and technicians on-site

On request we provide even more:

- Ramp-up assistance
- Production support
- Process support for KUBUS in terms of material changes
- Process support for your manufacturing line during contacting, lamination, quality control, electroluminescence measuring and performance testing