

MARKER

The magazine for the sheet metal processing industry

Fall 2024



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Dear readers,

Things are moving on. Europe has largely emerged from the dark days of the pandemic. And despite the current geopolitical uncertainties, it is noticeable that the global economy is picking up speed and generating growth. Nevertheless, the requirements facing us have changed: While the demand for flexible working arrangements and a better work-life balance has become more pressing, the shortage of skilled labor is increasingly making itself felt. AMADA is aware of all this and, as a partner to its customers, feels that it has a duty to find solutions that respond to these changes – by pressing ahead in the development of its products, services and organization. In its growth markets, in particular, it is vital for the AMADA Group to stand out for its leading high-level technologies and service. That is why I would like to invite you to pay a visit to the AMADA booth at the industry's flagship trade fair, EuroBLECH, which will be held in Hanover from October 22nd to 25th and where you will be able to get an insight into our innovations. Because a dynamic partnership means meeting, interacting and exchanging ideas – about market needs and innovative solutions for shared growth. In the following pages of this current edition, you can find out for yourself about AMADA's innovative strengths, how we are continuing to extend our service activities on your

behalf, and the benefits that the opening of our new Welding Technical Center in Italy will offer our customers in the European market.

I would like to wish you a very enjoyable read.

Alan Parrott,
European
Regional CEO



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An opportunity for Germany as a production location

Differentiation through cutting-edge technology

The German economy currently faces a number of significant challenges. Tatsuo Ishikawa, COO AMADA GmbH, takes a look at the local market and calls on Germany to: "Wake up and remember your old strengths!"

The German economy stands out for the great innovative strengths of its engineers and its high-quality production activities." It is not for nothing that Germany is one of the world's most important exporters and that the 'Made in Germany' label is recognized worldwide as a guarantee of quality. However, the constraints imposed by bureaucratic hurdles, the shortage of skilled labor, and high energy costs mean that businesses are currently living through challenging times. But does that mean that we should simply forget the old tried-and-tested German virtues? I don't think so! A look at the current market situation gives the impression that the only concern is to cut costs. However, reducing costs always also means making sacrifices when it comes to quality. And then everyone involved loses out. Germany will never be the cheapest producer. That sector is catered by other, low-budget suppliers. Instead, Germany should remember its old strengths and concentrate on cutting-edge technology implemented in outstanding quality and with a clear understanding of the costs involved in order to differentiate itself from its competitors.

AMADA is the perfect partner for such an approach. It has always been our aim to grow together with our customers. That is why we concentrate on solutions that help our market partners thrive in this competitive environment. As a technology leader in the field of sheet metal processing, saw technology and, micro-welding technology as well, AMADA is one of the few suppliers of end-to-end solutions. These stand out for their simple, error-free handling and automatic, autonomous operation.

Therefore, if Germany wants to assert and strengthen its position in Europe as well as in the global market, targeted investments in pioneering technologies will be the key to success. AMADA has recognized this potential and, with its most recent investments in its production facilities, has clearly confirmed its commitment to Europe and Germany." •



Tatsuo Ishikawa,
COO AMADA GmbH



From laser cutting and punching, through bending and welding and on to automation solutions, visitors to the AMADA trade fair booths will have access to a range of in-depth insights at the live demonstrations and specialist discussions.

AMADA at
EuroBLECH 2024:
Hall 12,
Booth D06/F06,
D02/F02

AMADA at EuroBLECH 2024

Growing together

When EuroBLECH, the industry's flagship trade fair, opens its doors in Hanover from October 22nd to 25th, 2024, visitors will be able to experience the innovative solutions and full-range strategies that AMADA offers its partners.

Under the motto "Growing together with our customers", AMADA will once again demonstrate just why it is the perfectly positioned partner to actively shape the future of sheet metal processing for and with its customers. To do this, AMADA will present its wide portfolio of innovative solutions at the 27th EuroBLECH international technology trade fair, where it will occupy booths D06/F06 and D02/F02 in Hall 12. From laser cutting and stamping, through bending and welding and on to automation solutions, visitors at the live demonstrations and specialist discussions will have access to a range of in-depth insights. And they can be secure in the knowledge that AMADA's experts always focus on finding the best

possible way to help customers achieve their objectives. Whether by combining different technologies or using forward-looking solutions for the digital transformation (DX) and Artificial Intelligence (AI) – AMADA is always driven by the vision of exceeding its customers' production expectations. At the same time, the company does not concentrate only on finding the best possible technological solution, but also focuses on the issue of sustainability and takes account of the imperatives of environmental protection during its development work. As you would expect from a good partnership, service also plays an important role at AMADA. That is why, at EuroBLECH, the company will be explaining how

its European service structure is to be redesigned in order to further enhance its already high quality level. What is more, visitors will have access to first-hand information about the benefits and synergies that will result with immediate effect from the new Welding Technology Center in Italy. So anyone who wants to discover how they can continue to grow in the market together with AMADA in the future should not fail to schedule in a visit to our stand at EuroBLECH. ●

For more information on AMADA's plans for this event: <https://euroblech.amada.de>

Scan the QR code opposite for information on this and other events:



INHALT

NEWS

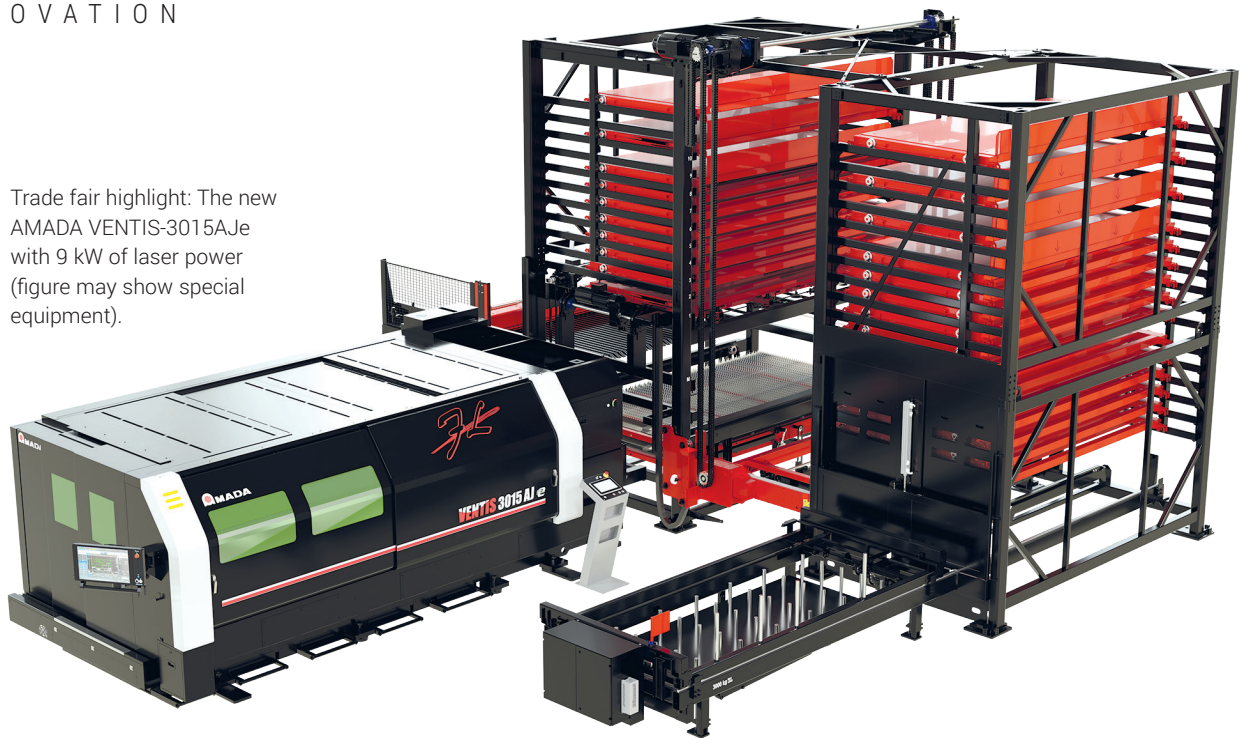
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Trade fair highlight: The new AMADA VENTIS-3015AJe with 9 kW of laser power (figure may show special equipment).



AMADA laser cutting systems

The new power class

AMADA is launching a new, particularly high-performance generation of laser cutting systems on the market in the form of the AMADA VENTIS-3015AJe, the AMADA ENSIS-3015AJe and the AMADA REGIUS-3015AJe. The new AMADA AMNC 4ie controller ensures that these systems are outstandingly reliable and easy to operate.

The AMADA AMNC 4ie represents the very latest in AMADA controllers and will equip all major AMADA systems in the future. The “4ie” in the name stands for “Innovative, Easy to use, Efficiency, Environmental and Evolution” and the solution’s ease of operation, in particular, offers enormous benefits in practice: “Not only does a facial recognition system automatically load the relevant user profile; the controller also switches to the corresponding interface language without the operator having to do anything. This helps prevent misunderstandings and also increases the reliability of machine operation,” explains Axel Willuhn, Product Manager for Punching and Laser Technology at AMADA GmbH. “What is more, the menu guidance has been simplified even further. Many features are self-explanatory, meaning that the controller can be used without difficulty even by less experienced operators.

Top-quality, high-speed machining of corners

One of the AMADA machines equipped with the AMADA AMNC 4ie controller is the new AMADA VENTIS-3015AJe. This fiber laser cutting machine provides up to 9 kW of laser power and permits the nitrogen-based cutting of thicker materials than was previously possible. What is more, it does so without leaving any disruptive oxide layer on the cut surface. Like the 4 and 6kW variants, the system uses only a single laser module without combiner. This ensures that this performance class also benefits from an outstandingly high laser beam quality. Another innovation takes the form of the “parallel kinematic” function. This is based on LBC technology, which causes the laser beam to move from side to side and permits the particularly fast, high-quality machining of corners and sharp contours. In addition, and again just like the pre-

decessor models, the AMADA VENTIS-3015AJe features the machining modes – “Productivity” and “Quality” – as well as the popular and proven “Flash Cut” function. This permits the extremely fast, high-precision cutting of smaller contours without it being necessary to move the weight of the laser bridge to do so. It is, of course, also possible to use the AMADA VENTIS-3015AJe reliably in automated scenarios– for example with the AMADA ASF II 3015 EU TWIN loading and unloading tower. This combination will also be on display at this year’s EuroBLECH, where the system’s performance will be demonstrated live as it cuts a variety of 30mm thick materials.

Optimized process reliability thanks to integrated cleaning of the cutting grid

At the same time, the new AMADA ENSIS-3015AJe will also be presented at EuroBLECH 2024. This



With a new level of laser power:
The AMADA ENSIS-3015AJe
with 15kW laser module.

laser cutting system is also equipped with the new AMADA AMNC 4ie controller and, thanks to its 15kW laser module, it now offers considerably higher performance. However, even in this performance class, the system still needs only a single laser module. This ensures optimum beam quality and excludes any possibility of combiner-related sources of error or power losses. At the trade fair, the new AMADA ENSIS-3015AJe will be presented in combination with the high variant of the AMADA ASF II 3015 EU tower, which also provides a parts sorting capability. "In this combination, the system runs as a stand-alone solution that can easily operate all but unstaffed for several days," explains Willuhn. Components can now also be marked in three different ways, all compliant with ISO requirements – using "deep etch" engraving or by means of a QR or barcode marking. This means that components can be assigned more reliably and simply than in the past, a capability that is becoming increasingly important as batch sizes shrink. Last but not least, the AMADA ENSIS-3015AJe boasts the so-called "Cleaning Blade" func-

tion. This automatically cleans the support grids at freely definable intervals and consequently prevents fusion and slag splashback. It increases the service life of the support elements, minimizes the corresponding costs and makes a major contribution to process reliability.

Roughness depths in the μm range

Another highlight at the trade fair will take the form of the AMADA REGIUS-3015AJe, which is now also available with 26 kW of laser power. This increased output capacity once again boosts the system's already outstanding precision and productivity and is beneficial not only during material penetration but also during cutting itself. The system has been designed primarily to process mid-thickness materials of up to 20 mm or more, always dependent on the table loading weight. "Experience from practical applications has clearly shown that the system meets the most exacting demands in terms of dimensional parts tolerances and the required roughness depth," reports Willuhn. In concrete terms,

this means that it has been possible to achieve smooth cut surfaces with a maximum peak-to-valley height of just a few μm , meaning that the machined parts can even be used in applications in the medical and food-stuffs sectors. At the trade fair, the AMADA REGIUS-3015AJe will be exhibited as a single machine that has been structurally adapted to make it suitable for the higher performance class. The system can also produce autonomously for long periods because, like the other two laser cutting systems, it possesses the corresponding monitoring and safety functions, such as the Laser Integration System (LIS), for example – meaning that even if a malfunction does occur, the system automatically prepares itself to resume cutting and continues the manufacturing process. ●



Axel Willuhn, Product
Manager for Punching
and Laser Technology,
AMADA GmbH



The new AMADA REGIUS-3015AJe with
26 kW of laser power is ideal for cutting
medium-thickness and thick materials.

One advantage of the AMADA ASF II 3015 EU storage tower is the innovative electric pallet changer.



The AMADA TK II 3015 EU parts sorter can sort parts weighing up to 150 kg.



Axel Gottfried,
Product Specialist for
Automation,
AMADA GmbH

Automation

Efficiency from start to finish

The latest AMADA automation solutions for flatbed lasers include the ASF II 3015 EU (storage tower with loading and unloading function) and the TK II 3015 EU (parts sorter). The overall solution can be flexibly configured and permits long, autonomous manufacturing cycles.

At this year's EuroBLECH, AMADA will also be presenting its latest automation solutions, including innovations specially designed with flatbed lasers in mind. These include the AMADA ASF II 3015 EU storage tower with loading and unloading function, which is now available as a single or twin tower. The tower is available in three heights between 4.5 and 6.4 meters depending on the available ceiling height. It is equally versatile in terms of capacity, with between 5 and 9 raw materials pallets and 2 to 5 unloading pallets. Furthermore, the twin-tower variant of the

AMADA ASF II 3015 EU offers high storage capacity and, despite its extremely compact design, provides space for a total of 34 pallets. "One particular feature of these systems lies in the innovative electric pallet changer. This operates in accordance with a rotational principle and therefore effectively prevents pieces of waste falling onto the raw material and causing malfunctions," stresses AMADA Product Specialist for Automation, Axel Gottfried. The unique single-sheet pallet also has many benefits to offer. This makes it possible to run a fully-automated system as if it were a stand-

alone solution when required. The new AMADA TK II 3015 EU parts sorter provides an even higher level of automation. This now also possesses the capability to unload foil-coated sheets. Parts weighing up to 150 kg can be sorted. Magnets and a vibrating plate mean that the solution is able to deal even with troublesome contours. It is equipped with a label printer for parts identification. Overall, therefore, the solution ensures fully-automatic material provision including automatic parts sorting. This means that end-to-end production is possible overnight and even during weekends. ●

AAE plant in Bennäs, Finland

Extended capacities

The AMADA production site in the Finnish town of Bennäs has been extended and modernized in a number of important ways. Alongside state-of-the-art technology, a special focus has been placed on sustainability.

After a two-year construction period, the new, extended production facilities at AMADA Automation Europe (AAE) in Bennäs (Finland) went operational in June 2024. The new facilities practically double AAE's manufacturing capacities and, among other things, include a new logistics center and a new assembly hall. At the same time, a considerable amount

has been invested in new technology. This includes, for example, a cutting-edge integrated welding robot cell and a new fully-automatic powder-coating system to replace the earlier wet-coating process. Naturally, attention was also paid to the need for sustainability during the extension work. Consequently, AAE has switched 100 percent to renewable ener-



AAE has been investing in state-of-the-art technologies at its Bennäs site.

gies, operates its own solar power installation, uses biogas for its curing oven and has completely eliminated the use of solvents. ●



The new AMADA 4ie controller makes punching on AMADA EM-ZRTe punching machines even simpler, more reliable and more efficient.

AMADA EM-ZRTe

Punching made easier

Thanks to the new AMNC 4ie controller, the AMADA EM-ZRTe punching machine is now even easier to operate – and complex punching operations on large-format sheets can be performed even more reliably than before.

Fully-automated punching continues to play an important role in the sheet metal processing industry because it combines optimized productivity with flexibility and energy-efficiency. That is why AMADA EM-ZRT punching machines have long been a popular and reliable choice for performing complex punching operations. These systems have now been equipped with the new AMNC 4ie controller. Thanks

to the new user interface, operation has never been easier — for example, the integrated camera recognizes the current operator and automatically loads the right user profile. Along with the new controller, the solution also provides the end-to-end tracking of energy data. This means that the energy consumption to date and current CO₂ emission levels can be consulted at any time. The smart die controller and the

intelligently controlled, full-area brush table for completely scratch-free processing are other stand-out features. Used in combination with the AMADA ID Tooling System (AITS), the automatic 300-way tool changer with up to 600 dies covers all user requirements. The AITS performs all the tool management tasks and makes operation of the system particularly efficient and reliable. ●



Tobias Koglin,
Product
Specialist
for Punching
and Laser
Technology,
AMADA GmbH

AMADA T-UP II punching tool

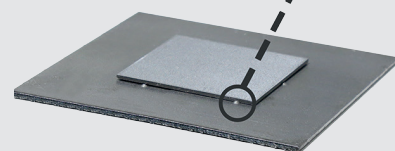
Fast, reliable positioning

The new AMADA T-UP II punching tool possesses a carbide tip that has been specially designed for use with stainless steel and which generates larger and more stable retaining lugs – for even greater precision, stability and reliability during sheet positioning.

Whenever the task is to position one sheet on top of another and then join the two together, small, punched lugs are the best option. In the past, AMADA was able to supply the AMADA T-UP to produce these indentations and protrusions and measure only a few millimeters. However, this solution has now undergone further development. "The AMADA T-UP II now has a particularly hard carbide tip which makes it possible to produce practically wear-free retaining lugs even in stainless steel materials," explains Thorsten Grimberg, Product Manager for

Tools, AMADA GmbH. "What is more, the AMADA T-UP II can I also used to produce larger lugs with a height of approximately 0.5 millimeters and a width of some 1.5 millimeters. This makes positioning more stable and accurate. The sheets can be positioned faster and there is absolutely no deformation on the back of the processed sheets." The new AMADA T-UP II punching tool, which can be used on all normally available AMADA punching machines, will be presented for the first time at this year's EuroBLECH and is available with immediate effect.

Using the new punching tool, it is now possible to punch particularly large lugs without leaving any deposit.



Thorsten Grimberg,
Product Manager for
Tooling, AMADA GmbH

The AMADA EGB-4010e + is one of the new press brakes that is now equipped with only one electric motor per side.

The new AMADA EGBe series

Press brakes with a unique drive

The new AMADA EGBe possess an innovative electric drive system that permits ultra-fast, high-precision operation. With press forces of between 400 and 1300 kN and working widths of 1 to 3 meters, this series covers the entire manufacturing spectrum and represents the ideal solution for all bending requirements.

With its EGBe series, AMADA has developed an entirely new generation of servo-electric press brakes. What makes them so different? The systems operate purely electrically with only a single electric motor per side, equipped with a clutch for high-precision torque adjustment. This drive is in use in the AMADA EGB-4010e +, the AMADA EGB-6020e and the AMADA EGB-1303ATCe, which range from a press force of 400 kN and beam length of 1 meter through to values of 1300 kN and 3 meters, respectively. "This is an innovative drive system that is unique in the field of press brakes and that is responsible not only for the feed movements but also for developing the press force

and ensuring precise positioning," explains Tankred Kandra, Product Manager for Bending Technology at AMADA GmbH. "At 250 millimeters per second, it not only permits very high feed speeds but also guarantees extremely high-precision bending." What is more, compared to hydraulic systems, the electric drive is much more responsive, consumes less energy and is easier to maintain, for example because there is no longer any need to change the oil.

Full range

Another highlight takes the form of the AMADA EGB 4010e+. At EuroBLECH 2024, this press brake, which has 400 kN of press force and a beam

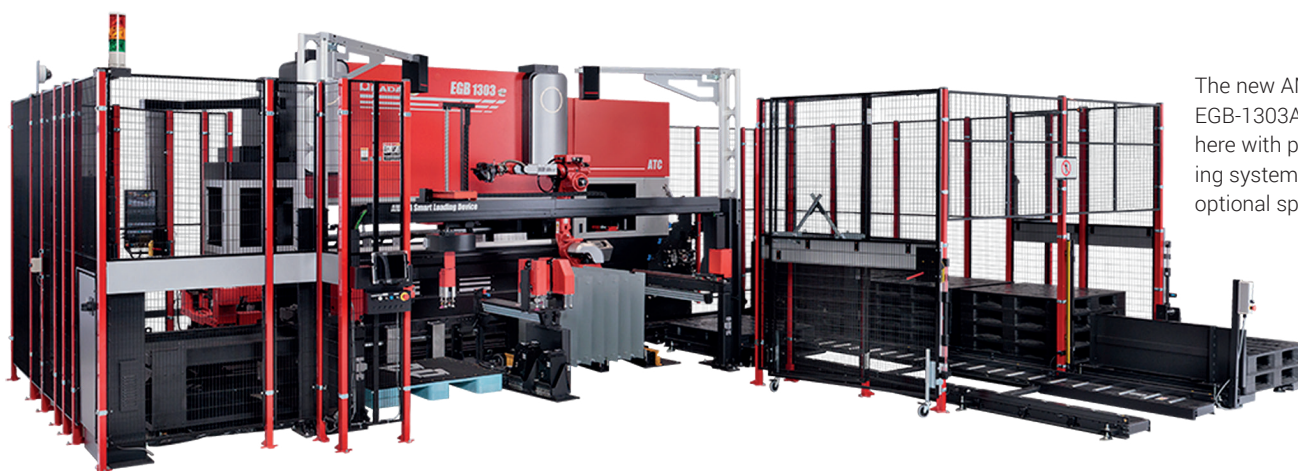


length of 1 meter, will be presented as a concept machine together with the new AMADA Tool Setup Assistant. This is an innovative tool magazine that keeps frequently used punches and dies ready right next to the machine so that the distances that have to be covered by the operator are shorter. In addition to this ergonomic system, AMADA we'll also be presenting the AMADA EGB-4010e +. This is the new high-end solution boasting 600 kN of press force and the beam length of two meters. The new EGBe series is rounded off by the AMADA EGB-1303ATCe, the largest of the variants with 1300 kN of press force and a beam length of 3 meters. With these three systems, AMADA is able to offer a full range of servo-electric machines suitable for all types of bending work that will boost the cost-effectiveness of users and simplify the work of operators thanks to their extreme speed, precision and ergonomic design.

In addition to the new EGBe systems, AMADA we'll also be presenting the hydraulic variant of the AMADA HRB-1303 at the trade fair. This is the proven talented all-rounder for the mid-range segment and can be ideally adapted to specific customer requirements – for example with sheet followers, an angle measurement system, an active crowning system and mobile foot pedal. •



High-end system
The AMADA EGB-6020e
with 600 kN of press
force and a beam length
of two meters.



The new AMADA EGB-1303ARse, shown here with pallet changing system as an optional special feature.

AMADA EGB-1303ARse

Fully-automated productivity

The AMADA EGB-1303ARse represents the latest generation of robot-assisted servo press brakes and ushers in a whole new dimension in production efficiency – thanks to drastically reduced cycle times and highly-automated measurement and security features that also greatly simplify the bending process.

At EuroBLECH 2024, AMADA will introduce visitors to a completely new electrical, fully-automated and robot-assisted bending cell in the form of the AMADA EGB-1303ARse. One of the stand-out features of the new system is the fact that operation has once again been greatly simplified for users. System operators can now call on the new AMADA “Smart Loading Device” for help during loading. This system is equipped with a camera that enables it to recognize the sheet position automatically and an integrated handling device that grips each part securely and precisely. This loader also checks the sheet thickness and then transfers the part to the bending robot. As a result, the parts no longer have to be located at a defined position on the pallet or be accurately stacked. There is also no need for a reference table to ensure correct parts positioning. “The fully-automatic loading unit significantly reduces cycle times and it is easily possible to save up to 15 seconds per operation compared to the variants with reference table,” adds Tankred Kandra, Product

Manager for Bending Technology at AMADA. What is more, the AMADA “Smart Loading Device” is also able to handle vertically stacked metal parts without difficulty. The system’s setup plan and status can be tracked via WiFi, including from an tablet, with the result that operators always know what is going on at the machine irrespective of where they are at the time.

Integrated measurement system, extended capacity

In addition, the AMADA EGB-1303ARse naturally also offers a range of new functions that make sheet metal processing even more efficient. This includes the further-optimized backgag with its three independent gage fingers and a laser-assisted measurement system for checking the height of the sheets. This ensures that the sheet is always located in exactly the right position in all directions and does away with the need for time-consuming fine adjustments using a manual control box. The capacity of the automatic tool changer (ATC) has also been

increased by approximately 30 percent, an improvement that once again significantly increases the level of vertical integration.

Time savings on all fronts

Further important benefits are provided by the AMADA BI-S II angle measurement system, which can now complete the measuring process in half the cycle time. There is also an automatic integrated electric crowning system. With its two servo-electric drives, which are independent of one another, it is able to compensate precisely for the sagging of the press beam. Last but not least, the speed of all the machine’s axes has been increased once again and the robot now possesses an automatic gripper changer for nine different grippers. ●



Tankred Kandra, Product Manager for Bending Technology, AMADA GmbH

AMADA FLW-3000Le

The ideal entry-level model

At EuroBLECH 2024, AMADA will present the new AMADA FLW-3000Le, a particularly compact and economically priced variant of the well-known AMADA FLW fiber laser welding cells. This unit is the perfect introduction to the world of robot-assisted laser welding.

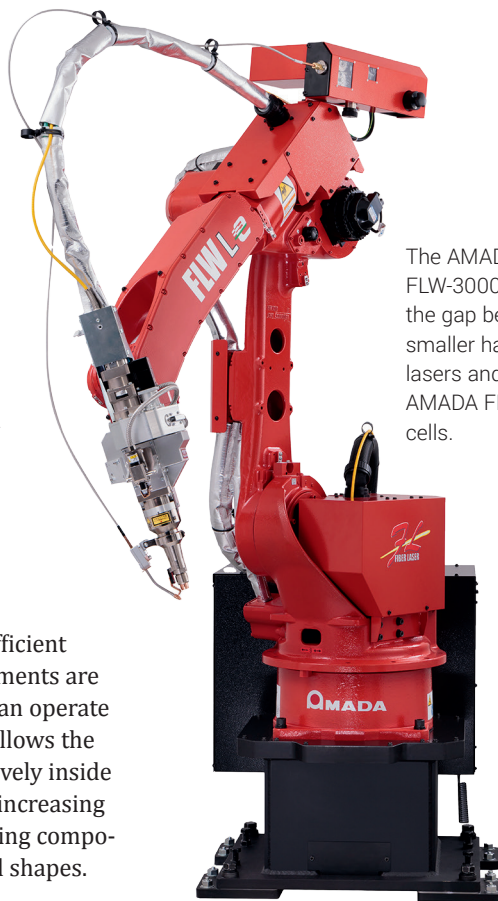
Whenver automated, robot-assisted welding is needed, the AMADA FLW-ENSISe welding cell is the first choice. AMADA has now extended its range of welding cells to include the AMADA FLW-3000Le, a particularly compact and economically priced variant. "The AMADA FLW-3000Le has been designed as an entry-level welding robot and bridges the gap between manual welding processes or smaller hand-held laser devices and the large AMADA FLW welding cells," explains Markus Müller, Welding Specialist at AMADA GmbH. "The system is not only considerably less expensive than the large models but also stands out for its very low space requirement." The particularly slender design of the robot head makes it possible to weld smaller parts simply by rotating the head, without there being any need to swivel the table. The result is that

parts machining is more efficient and precise because movements are minimized and the robot can operate more flexibly. The design allows the robot to reach more effectively inside smaller housings, thereby increasing its flexibility when machining components of different sizes and shapes.

Variable structure

The AMADA FLW-3000Le with its 3kW oscillator and six-axis robot is available with an optional fixed table in the M1 version or with a rotary/tilting table in the M2 variant. Both versions are equipped with the weaving function, in which the laser beam moves from side-to-side to bridge gaps, as well as with a wire feed function. As a result, the AMADA FLW-3000Le, which will be presented for the first time in Europe at this year's EuroBLECH, can reliably per-

form a wide range of high-quality welding operations in steel and stainless steel up to 6 mm and in aluminum up to 4 mm – and therefore fully reflects the functional scope of the large AMADA FLW welding cells. ●



The AMADA FLW-3000Le bridges the gap between smaller hand-held lasers and the large AMADA FLW welding cells.



Markus Müller,
Welding
Specialist, AMADA
GmbH

Plasmacut GmbH, Harsum

"A perfect fit"

Plasmacut GmbH was one of the first companies to place an order for the new AMADA FLW-3000Le. The key factor in its decision was the compact design.

For almost 20 years, Plasmacut GmbH in Harsum, Germany, has been relying on AMADA technology and the company's core production equipment includes an AMADA VENTIS-3015AJ 4 kW laser cut-

ting system and an AMADA EML-2515AJ combination machine. However, the company has also always been interested in automated, robot-assisted welding in the form of the AMADA FLW welding cell. "Unfortunately, the earlier FLW models were simply too big due to the limited space available to us," explains Managing Director, Jens Vogel. "So when the new AMADA FLW-3000Le became available, we lost no time in ordering the system. With a footprint of only 4 x 4 meters, it fits perfectly in our production hall." The company was also won over by the system's high manufac-

turing quality and its attractive price. The new AMADA FLW-3000Le will arrive at Plasmacut GmbH in early 2025. "We are looking forward to using the new system, which will significantly extend our manufacturing expertise and will undoubtedly help us win many new customer projects.



Jens Vogel,
Managing Director
Plasmacut GmbH



New Welding Technical Center

The entire laser technology product portfolio in a single location

On October 25, AMADA will open its new Welding Technical Center (WTC) in Pontenure, near Piacenza in Italy. Here, European customers will not only be able to get to know the entire welding technology portfolio but will also have the opportunity to work on joint developments.

Laser-welded parts play an important role in our day-to-day lives and are used, for example, in fields such as aviation and aerospace, e-mobility or medical engineering. That is why the new Welding Technical Center will be the setting for AMADA to demonstrate its full portfolio of technologies in a single space, from large welding robots through to automated laser welding cells for micro-applications," explains Joerg Kundrat, COO AMADA WELD TECH Europe. At the heart of the Center, there is the "Weld Vision Hub", an interactive space where customers can experience the forward-looking capabilities of AMADA's fiber laser welding technologies first hand. Here, they can meet with experts to discuss, test and analyze tailor-made solutions for specific production requirements. A process monitoring capability provides information about the quality of the welds, an aspect which is of enormous importance for suppliers in the medical engineering or automotive sectors.

Everything from a single source

"Welding is an important process step during overall production. AMADA is determined to cover a large number of the different processes involved in the manufacturing chain as a single-source supplier. The fact that AMADA Italy and AMADA Engineering Europe are located close to one another means that visitors to the new WTC can benefit from valuable synergies, for example they can also see AMADA sheet metal processing machines and solutions for automating loading and unloading operations," explains Philipp Hagn, Business Development Manager at AMADA WELD TECH Europe. Given the growth of the southern European market and the proximity to southern Germany and Austria, the WTC in northern Italy is also very well-situated geographically for potential customers. The WTC will be opened on Friday, October 25, 2024, to coin-

cide with the EuroBLECH trade fair in Hanover. The new WTC will reflect AMADA's commitment to offering reliable, technologically advanced machines designed to meet the needs of high-quality production in Europe. At the same time, AMADA is working on processes that minimize any harm to the environment. In this way, the new Welding Technical Center also underlines the company's commitment to a greener, more sustainable future. ●

For more information, visit www.amada.eu and www.amadaweldtech.eu



Joerg Kundrat,
COO of AMADA
WELD TECH
Europe



Philipp Hagn,
Business Development
Manager at AMADA
WELD TECH Europe



AMADA Service Europe

Optimum support

Service has always been one of AMADA's very top priorities. To further improve the service it offers to its customers in Europe, the AMADA group has now founded an independent company under the name AMADA Service Europe.

In addition to its innovative technologies and comprehensive portfolio of solutions, the AMADA Group has firmly established service provision, which is a key element in its customer relations, among its medium and long-term business objectives. That is why AMADA already has a skilled team ready and waiting to provide comprehensive support – from installation and training right through to maintenance and the rectification of downtimes, either locally at the customer's premises or via remote service. Customers are able to call on a range of services in the form of telephone or IoT support, scheduled maintenance and troubleshooting for their machines. Our range of services also covers spare parts, consumables, tools, software, training, application support and machine relocations. Christophe Sangnier, CEO of AMADA Service Europe, explains the proactive decision to set up a separate service company: "We want to provide the same first-class service quality irrespective of where the customer is located in Europe, including in the newly industrialized economies. The new company has a series of key aims, for example the further enhancement of its service engineers' qualifications

to ensure that they can keep pace with the rapidly evolving world of machine technology. On top of this, we will also continue to improve our delivery times for spare parts and consumables." The company has its head office in the premises of AMADA France in Paris. At the same time, Sangnier wants to make it clear that AMADA will not be making any changes to the highly-efficient service that customers already enjoy every day from their local service teams. Instead, the cre-

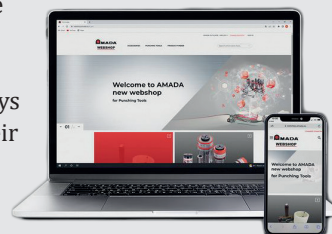
ation of AMADA Service Europe will ensure uniform service throughout the whole of Europe, irrespective of where the customer is situated – proactive, fast and professional. In addition to this, the company is working to move ahead in the field of digitalization by offering high-quality, individually tailored industrial IoT services (Internet of Things) in all its markets and business sectors. All of this means that AMADA's customers will continue to receive top-quality service in the future. ●

AMADA Webshop

Open for orders round-the-clock

From now on, it will be even easier to purchase tools, consumables and accessories. Customers can now order anything they need quickly and intuitively from the AMADA Webshop seven days a week, round-the-clock and irrespective of their location. All the European sites are connected, making it possible to reduce delivery times. Order confirmations and tracking mean that customers can plan their purchases with confidence. The customer's order history is stored to simplify order management and streamline reorders.

You will find more on the Webshop at https://webshop.amada.eu/uk_en/





AMADA DX Solutions

The new LIVLOTS solution

AMADA is due to present its new LIVLOTS software solution at EuroBLECH 2024. This will drive the digitalization of the manufacturing sector forwards and help make production processes more efficient and reliable.

Our innovative software solutions and proactive services represent an all-round approach to the digitalization of manufacturing," explains Software Application Engineer, Lukas Pollok. "The new LIVLOTS solution shows how the digital transformation can make production processes more efficient and reliable." LIVLOTS (Live Variable LOT production System) is characterized by very low-level integration in the machine technologies and the VPSS 4ie CAD CAM software solution in order to permit virtual prototype production. This is further complemented by predictive support from the technical service in order to reduce downtimes and increase machine availability. The new LIVLOTS application establishes a balance between the variables that exist in any given production environment and improves resource utilization. To do this, LIVLOTS networks machines and employees and provides relevant real-time job data.

Flexible solution packages

Thanks to its modular structure, LIVLOTS can be adapted to each customer's individual circum-

stances. The ERP\DX core package is a base-level solution that offers all the benefits of integrating ERP, the AMADA machine technologies and the VPSS 4ie software solution and permits full monitoring of the progress of every job. Even without an ERP system, LIVLOTS is able to manage orders, material stocks and resources. Thanks to KPIs, dashboards and a 3D production view, it is also possible to analyze the production order data and the operating states of the AMADA machines – as the basis for fully-informed strategic decisions.

The SHOP FLOOR extension package goes even further and digitalizes material flow and stock management. In addition, LIVLOTS provides support in the identification and provisioning of upcoming production orders and makes sure that the end products meet the quality requirements. This includes monitoring production standards and implementing digital quality checks. At the same time, digital document management provides greater security and accessibility and simplifies cooperation. The OFFICE extension package supports operational planning at the levels of cost management, detailed

process planning, resource assignment and production data analysis. In this way, cost discrepancies can be identified at an early stage and cost optimization measures can be introduced in order to improve both the production processes and cost efficiency.

The LIVLOTS QUOTE module permits the precise preliminary costing of production orders based on a detailed calculation of the expected costs and resource requirements. This helps boost competitiveness. Together, AMADA's DX Solutions form a high-performance suite that prepares for the transition to digitally transformed, future-proof production. ●



Lukas Pollok,
Software Application
Engineer at AMADA
GmbH



One of the current top models: The Hymer Grand Canyon S.



Hymer GmbH & Co. KG, Bad Waldsee

High-end vehicle manufacture

The Hymer brand stands for top quality and motorhomes for the premium segment and when it comes to sheet metal processing for vehicle production, this long-standing company calls on state-of-the-art technology from AMADA. The systems, which are sourced from a single supplier, ensure outstanding component quality, increase the level of inhouse production and generate value-added.

Motorhome and camper van touring has been extremely popular for quite some time and the levels of demand reported by Hymer GmbH & Co. KG in Bad Waldsee, Germany, have been correspondingly high. This long-established company is a market leader and one of Europe's largest manufacturers of motorhomes. "One factor in our success is the fact that our motorhomes target the premium segment and embody outstanding quality, from the chassis on to the

accessories and right through to the interior fittings," explains Udo Dittrich, Head of Preproduction at Hymer. "However, the fact that we are able to produce very many of the components we use in-house is also crucial. We manufacture the majority of the components we need ourselves and are therefore independent of suppliers, which had a very positive effect during the Covid-19 pandemic," adds Christian Borgenheimer, Project Manager Industrial Engineer at Hymer.

AMADA for all metal components

Hymer's exacting requirements for top-quality and in-house production also naturally apply to its sheet metal processing activities. In this area, the market leader has been working with AMADA technology for over 20 years and now possesses four press brakes and two punch-laser combination machines. These are used to manufacture all the



One of the great advantages of the AMADA systems is their ease of operation.

Among its other systems, Hymer uses an AMADA EML-2515AJ for combined punching and laser cutting.

metal components in and around the motorhomes – whether in the form of chassis brackets, step supports, furniture brackets or stainless steel refrigerator trim. “Generally speaking, for us the positives of AMADA’s machines lie in their ease-of-use, the high level of compatibility with our existing tools and, of course, the service and support offered by AMADA,” explains Head of Metal Processing, Winfried Saal. “Because we have sourced our machine pool from AMADA, everything comes from a single supplier. This also leads to high productivity and value-added,” continues Dittrich.

Eliminating unnecessary work

One of the two main ways sheet metal is processed at Hymer is through the combined punching and laser-cutting of steel and aluminum sheets in thicknesses of up to 4 mm. The company has performed this work on an AMADA LC-2515C1AJ since 2017 and on an AMADA EML-2515AJ since 2019. “The most important factors for us were the high speed, the high manufacturing quality and the efficiency of the systems during production. Many operations are unnecessary, for example welding on a nut, because we can now produce the corresponding retaining mechanism using an AMADA nozzle tool and a screw tap in a single step. This not only saves material and energy but, above all, a whole lot of time, especially because the corresponding tool is

always present in the turret ready for use without us having to change anything,” stresses Saal. The automatic nozzle changer that is installed in the AMADA EML-2515AJ as standard brings about similar benefits in terms of efficiency.

Setups take just minutes

The second area of metal processing that is common at Hymer is bending. Since 2018, this work has been carried out at an AMADA HFE3i, as well as at one AMADA HG-1003ATC press brake that was acquired in 2017 and a second that followed it in 2023. These machines are used to produce approximately 70 percent of all the metal components at Hymer. The greatest benefit offered by the AMADA HG-1003ATC press brakes in practical use is due to the automatic tool changer ATC. This cuts the effort and time involved in machine setups from, in many cases, 30 minutes to under two minutes and is particularly valuable for complex tool setups. “Overall, fully-automated setups have allowed us to reduce our setup times by 40 percent,” reports Bor-

genheimer. “What is more, it makes our work a lot more convenient and, most importantly, more reliable. And, last but not least, the risk of human error is all but eliminated. The operator simply scans the barcode, starts the setup program and is ready to begin production. All in all, therefore, our two AMADA HG-1003ATC press brakes are extremely cost-efficient systems.”

Production without downtimes

Hymer GmbH rates production on the AMADA systems equally positively: Borgenheimer, Dittrich and Saal all agree: “We are very happy with our AMADA machine pool and in particular with our most recent investments. They provide the necessary manufacturing efficiency as well as a high level of machine availability. This means that production is not interrupted by any downtimes, in particular thanks to the ready availability of spare parts. That is why we will continue our partnership with AMADA and believe that it has great potential for the future.” •



Christian Borgenheimer, Project Manager Industrial Engineer at Hymer



Winfried Saal, Head of Metal Processing at Hymer



Udo Dittrich, Head of Preproduction at Hymer



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