VALK MAILING
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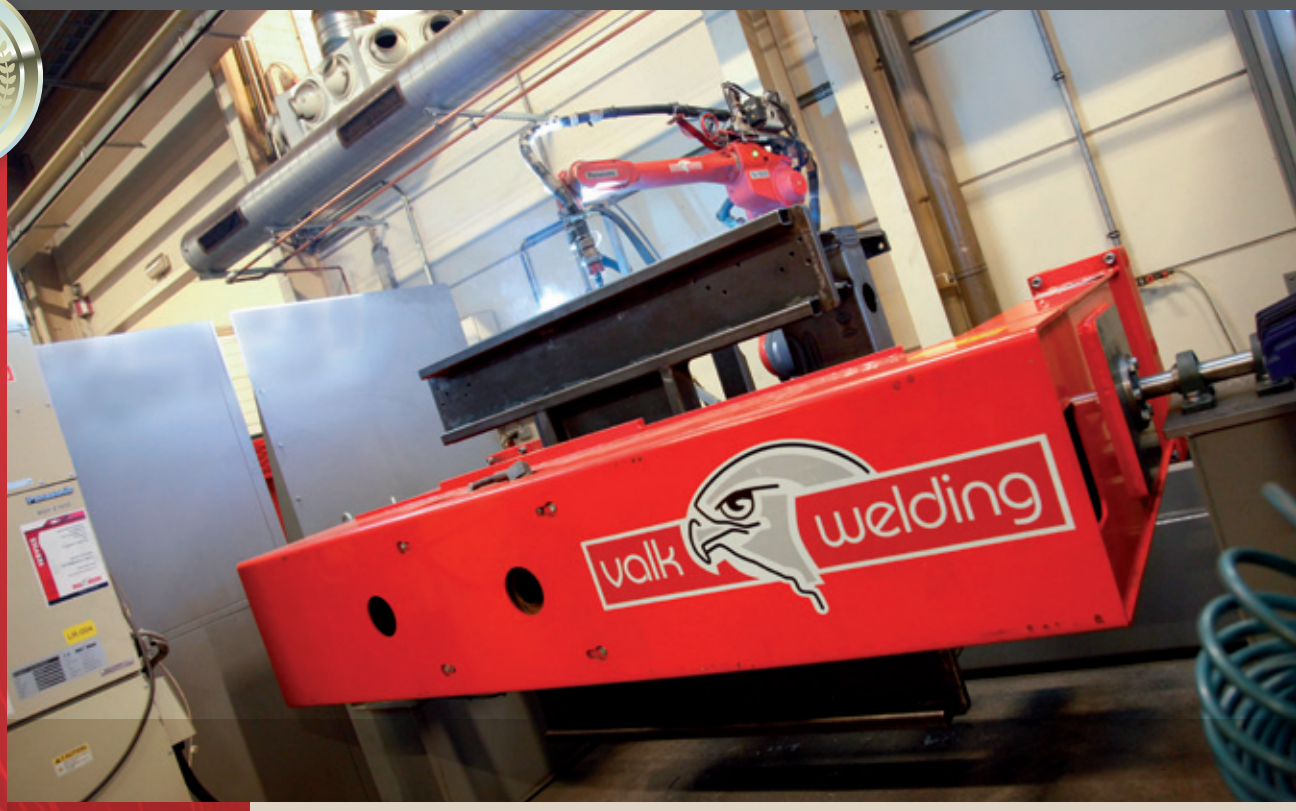
25th Edition



BELGIUM

Valk Welding, 50 years of presence in Belgium

This year marks the 50th anniversary of when Valk Welding started its activities in the Belgian market. By supplying welding equipment, welding consumables and, later, welding robots (1978), Valk Welding has developed during that period into a market leader in flexible arc welding robot systems and a household name for the delivery of welding consumables such as welding wire. Peter Pittomvils, branch manager Belgium: "Our role has gradually grown during that time from supplier to technology partner, in which we raise the client to a higher level. To do that we invest continuously in new technologies and software development."

The Valk Welding group now operates in virtually all European countries. Belgium is and remains one of the primary markets. Belgium was the first country in which Valk Welding operated outside of the Dutch borders. Peter Pittomvils: "Belgian customers also triggered the growth of Valk Welding outside of the Benelux region by taking us with them to their foreign establishments."

continued on page 2

Also in this issue:

valk welding
The strong connection

continued from frontpage

Valk Welding 50 years in Belgium

Peter Pittomvils: "We're working on the further development of our MIS 2.0"

"At first it was mainly the larger manufacturers that joined us in taking the step towards welding robot automation. With the introduction of DTPS offline programming in 1995 we introduced a completely new level of flexibility in the Belgium market. We were the first in our market domain to offer offline programming. That way we also made it possible for suppliers to use welding robots for flexible production."

Peter Pittomvils, branchmanager Belgium:

"New role as technology partner"

Peter Pittomvils: "These days we're no longer a company that just puts a welding robot on a track and connects the cables. We raise clients to a higher level with new technologies such as offline programming, programming automation (APG), Arc-Eye weld tracking systems and customer-specific software solutions. Our role as supplier has been transformed into that of technology partner."

Indispensable

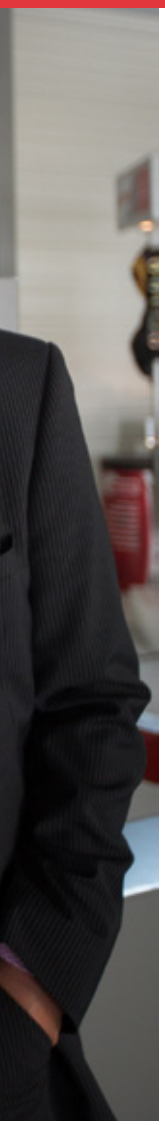
By supplying welding robot systems Valk Welding has made an important contribution to the profitability of its Belgium clients. Peter Pittomvils: "Most of our welding robot systems have become indispensable to their production processes. Some customers have told us that the use of Valk Welding robots in their own countries makes it possible for them to manufacturer profitably. We have also noticed that work that used to be carried out in low wage countries is now returning to Belgium, not least as a result of our welding robot automation."

Even more potential

On the one hand, companies using Valk Welding solutions have already raised the bar to single piece production and Smart Industry 4.0 / Made Different / Industry 4.0 solutions, whilst on the other there is rising demand from companies taking their first step towards automation. Peter Pittomvils: "Companies are thinking more and more in terms of "cost of ownership" and therefore want to make the right investments to maximise their returns. There is also a trend towards complete turnkey projects in which clients focus on their core business and we provide them with a total solution from A to Z. We even give them a result guarantee, in which we guarantee that their products will be manufactured within the agreed time period and at optimum welding quality.

Further efficiency improvements

"Belgian companies could raise their efficiency even further by focusing entirely on flexibility in all aspects and the perfomance and duty cycle of the welding robots. For that reason we are continuing to work on the development of our MIS 2.0 system, with which clients can monitor the robot systems in realtime (performance, service intervals, use of welding wire...). New **Panasonic** welding technologies such as SP-MAG II, HD-MAG, Active Wire Process, and so on make expensive subsequent processing virtually a thing of the past. This large cost reduction makes a substantial contribution to the project's return on investment, says Peter Pittomvils.



MIS 2.0: Monitoring welding robot performance in realtime

Many clients have long expressed a wish to be able to directly monitor the current status of their welding robots and, if neccesairy, respond quickly to occurring problems. Valk Welding already offers its own Management Information System (M.I.S.) for this purpose, which provides information about aspects such as the working time based on historical data. Valk Welding is now working on the development of M.I.S. 2.0, which provides information about the course of the process based on current/real time data. At operator and management level this makes it possible to respond immediately to the progress and service demand. This minimises downtime and makes it possible to steer production where necessary.

Peter Pittomvils: “Users want more insight into real time data, such as the working time, welding time, the amperage and voltage current being used for welding per product, how much welding wire is being used, etc. For this purpose M.I.S. 2.0 reads all data from the robot at a frequency of 100 Hz. This not only makes effective production immediately measurable, but also promptly detects when critical parts need preventative maintenance."
Two examples: "By monitoring the load-factor on the robot axis and the load-factor on the servomotor realtime, the M.I.S. is able to promptly send out a signal for preventative maintenance. That makes it possible to intervene in good time rather than being confronted by sudden down-time. It is also possible to link information about the amount of welding wire being used to the stock so that the purchasing department knows when to place new orders. These days it is still not unusual for the welding robot to stop and have to be urgently provided with welding wire."

The situation each day or month can also be shown using the M.I.S. 2.0 data in an SQL database or CSV file for processing in the client's own OEE software or storage in an ERP system. With the development of M.I.S. Valk Welding makes the welding process even more controllable. The new ‘Management Information System 2.0’ will be ready for implementation in DTPS-G3 end of this year.

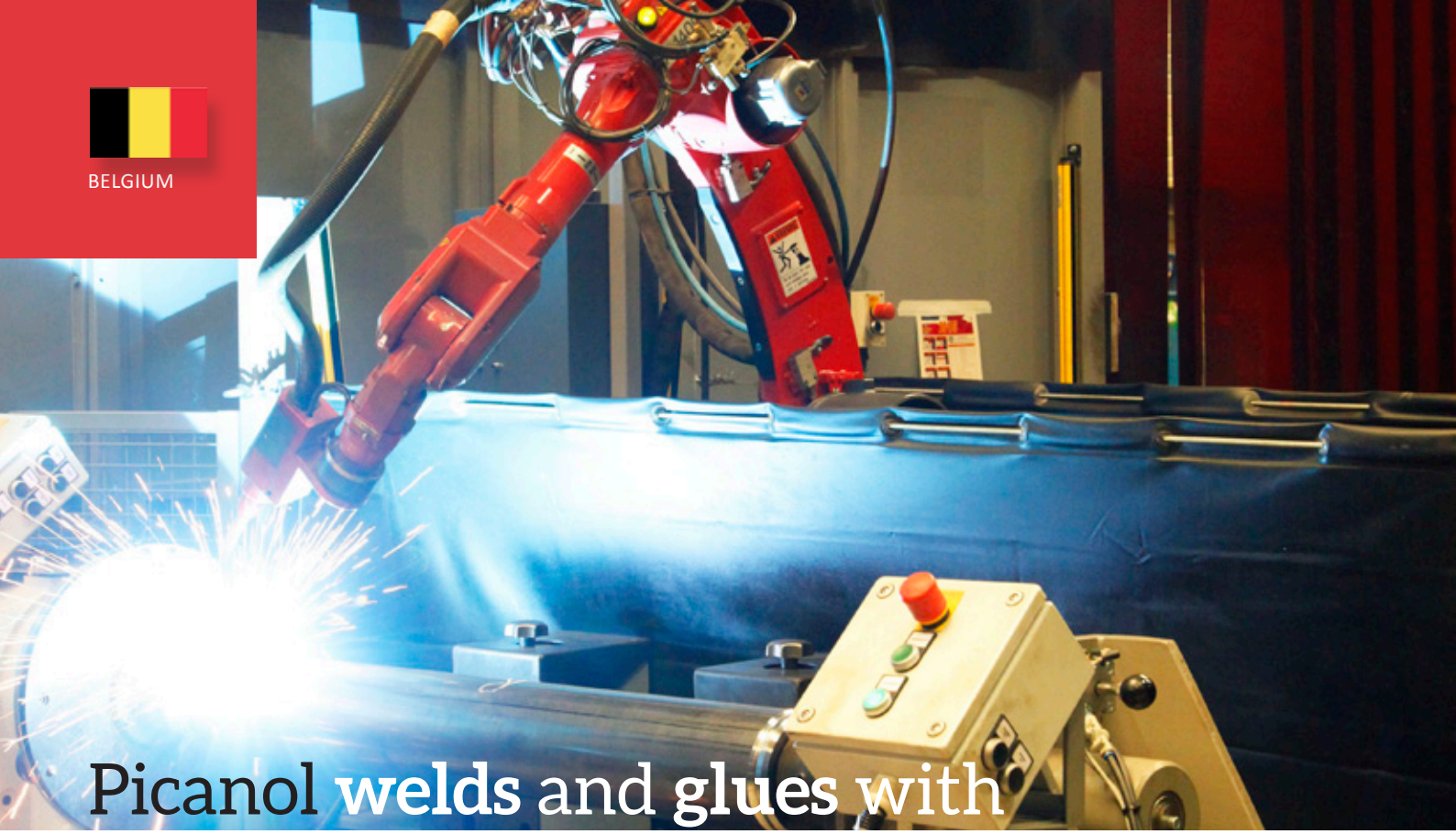
More information:
info@valkwelding.com

Where will it go in the next 10 years?

Asked about which technological developments will be boosting efficiency further in the next 10 years, Pittomvils mentions the huge success of the Arc-Eye weld tracking system. "That is the proof that applications that weren't possible with traditional solutions can now be used thanks to our Arc-Eye solutions. We are also at the eve of the new Industry 4.0 revolution, and the importance of tailor-made software solutions is bound to increase in our projects. Valk Welding is certainly aware of the huge importance of this and is therefore making a substantial contribution to this evolution.

www.valkwelding.com
ppit@valkwelding.com

BELGIUM



Picanol welds and glues with Valk Welding robots

Valk Welding has delivered two similar robot configurations for the automation of the welding and glueing process of Picanol, one of the world's largest weaving machine manufacturers. According to Senior Buyer & Manufacturing Manager Geert Tanghe, it was mainly based on the Valk Welding technical know-how and flexible approach that Picanol now has a flexible welding robot system and a highly innovative robot solution for the automation of the gluing process supplied by Valk Welding.

PICANOL

Founded in 1936 with its head office in Belgium
> 2000 employees, > 35 nationalities worldwide
14 locations worldwide
installed base of more than 175,000 weaving machines
Consolidated 2014 turnover: 418.2 million euros
Listed at Euronext

Picanol was looking for a robot integrator for the automation of its glueing and welding system. The robot integrator also had to be willing to work with third parties for the glue application aspect. In an extremely lean & mean and highly automated production system the welding was still carried out partially manually, and the transport rollers were still glued entirely by hand. Geert Tanghe: "Until recently glueing the rough materials to the smooth rollers was a traditional process that was in sharp contrast to the rest of the production process. We wanted to introduce a new glueing procedure and improve quality by automating the process. For the welding of the construction parts and the transport rollers we were looking to partially replace and extend the existing welding robot."

Weaving machines with 15 different working widths

Two types of weaving machines with 15 different working widths are currently being built at the factory complex in Ieper, Belgium. Picanol's state-of-the-art weaving machines make more than 1000 strokes a minute, which makes very high demands on the drive components and stability of the weaving machines. The drive components not only have to be strong and wear-resistant: they must also be light in order to withstand the fast movements. The necessary machine stability is created with side partitions made of moulded parts. All of the moulding, turning and grinding work has been carried out in-house for 75 years.

Choice of supplier

Geert Tanghe: "Valk Welding is a well-known name in the region, also at the suppliers of our plate and sub-components. We asked Valk Welding and a couple of other robot integrators to offer us a turnkey solution to our problem. The glue application calls

The material for 1/3 of all jeans in the world is woven on Picanol weaving machines.

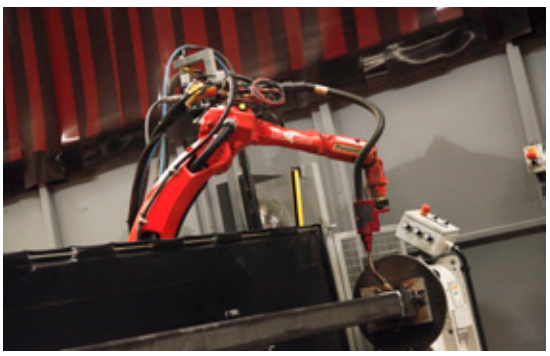
for a special positioner that is not included as standard in the offering of most robot integrators. The development of the welding jigs and the programming were also included in the turnkey assignment and the robot supplier had to be willing to work with the supplier of the glue application system that was being integrated. Only Valk Welding agreed to this and had no trouble developing a non-standard system."

2 Robot systems on an H-frame

welding of transport rollers and traverses (stabiliser tubes) with dimensions of 1.5 to 5.6 metres in length corresponds to the configuration for glueing. Both systems consist of a robot on an H-frame (fixed torsion frame with positioners on 1 top side and 2 adjustable counter bearings) in a special design. Both robots are **Panasonic** TA-1400 models. The rollers were previously welded using a welding machine with an outdated controller that could no longer be upgraded. Also, the flanges were still manually being welded to the stabiliser tubes. Geert Tanghe: "Automating the two processes was intended to reduce the manual work and increase quality."

Welding robot system

In the welding robot system supplied by Valk Welding a **Panasonic** TA-1400 welding robot moves on an integrated 6m track to weld the tubes and transport rollers in lengths up to 5.6m on 2 jig stations. The positioners on both sides have a fixed position and are equipped with adjustable counter bearings. That makes it possible



to weld both the smallest and the largest lengths of the transport rollers and stability tubes just on one single system. Valk Welding also saw to the development and delivery of the welding jigs and the programming of the welding robot for the 2 types and 15 different lengths.

Glueing robot system

Geert Tanghe: "In our weaving machines the woven material is guided to the output side by 3 transport rollers. These have to be covered with rough textiles to obtain

the necessary grip. Until recently we manually applied contact glue to the rollers and the covering. Not only was this a time-consuming job, there was also the disadvantage that it was difficult to replace the cover at a later date. That's why we switched to a 2-component epoxy glue." Delta Application Technics, which specialises in the design and production of application and dosing systems for liquid and paste products, was asked to develop a solution to apply the glue precisely and automatically to the metal transport rollers in such a way that the glue was spread evenly. "Integrating the dosing system in the same automated system of Valk Welding made it possible to make do with virtually the same robot system, which was a big advantage in terms of maintenance and usage. All that needed to be done was to replace the welding torch with a glue dispenser."

Quality gains

Geert Tanghe: "For the glue application Valk Welding adapted its torch holder for the welding torch on the **Panasonic** welding robot in order to fit the glue dispenser. A specially developed positioner ensures that the metal transport rollers turn quickly while the robot makes a linear movement. The covering can then be placed directly by hand while the positioner slowly turns. The new gluing process has greatly improved the adhesion and, accordingly, the quality. The robot evenly applies the glue in a way that could never be done by hand. All in all, this application is of the most innovative of its kind at Picanol."
www.picanol.be

GERMANY

System Trailers Fahrzeugbau GmbH builds complete trailers and semi-trailers for truck manufacturers. The company constantly works on the production of large volumes in a wide variety as competitively as possible. This German trailer builder has reduced its lead times by 30% since switching to Valk Welding welding robot systems. But its aspirations go beyond that. Together with Valk Welding, System Trailers is setting out to further improve quality and reduce costs.

Welding robots are used to weld beams for trailers at System Trailers Fahrzeugbau GmbH

There is cutthroat competition in the trailer building sector. System Trailers in Twist, Germany, has gained a distinctive position as an independent producer of trailers and semi-trailers. The factory produces 60 to 70 trailers a week. 70% of the company's turnover is generated.outside of Germany. Director Ralf Saatkamp: "Our strategy is to make favourable purchasing conditions and highly efficient production processes possible by combining the demand of several truck manufacturers. That way we can offer our clients consistently high quality and favourable prices." System Trailers has geared its organisation, production and computerisation entirely to a large variety in a high volume production setting.

Programs virtually without corrections on the welding robot

System trailers had already been using welding robots to weld its longitunal beams and chassis components when it made the s change to a Valk Welding welding robot system. Ralf Saatkamp: "The large number of different trailers makes the time it takes to reconfigure the welding robot a crucial factor. We looked for a partner that would be able to flexibly set up the entire programming system. Valk Welding stood out in this respect with its offline programming system DTPS. As well as the delivery of a welding robot system for the welding of girders, we have also switched

to offline programming. The welding robot is able to work with the programs with almost no corrections being made. We were immediately impressed by the first Valk Welding welding robot system and the creative ideas that they use to make better use of the welding robot's options."

Three identical welding robot systems

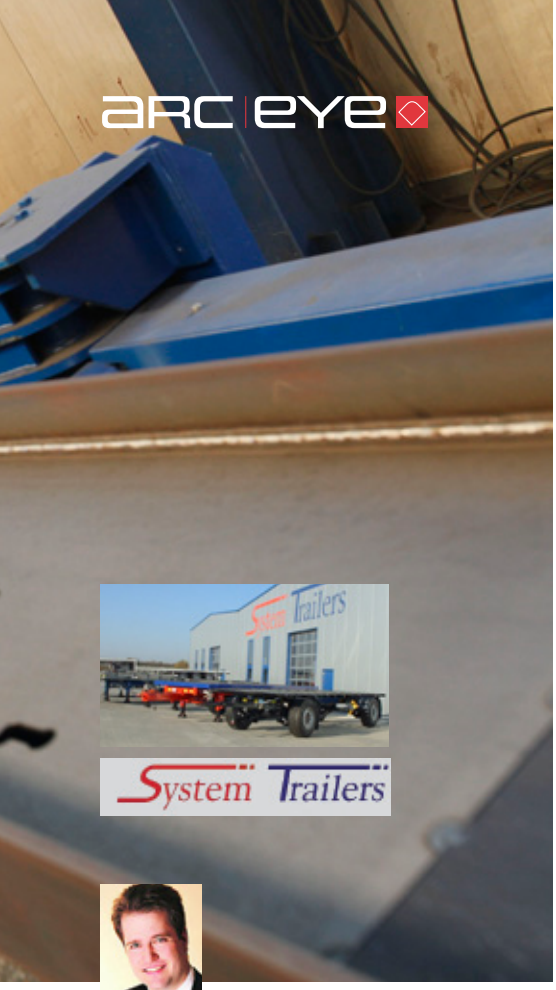
Two years later Valk Welding has delivered another two of the same welding robot systems. All three welding robot systems are set up to weld longitudinal beams with a standard length of 13.65 m. The last two welding robots are positioned next to each other in a right and left hand version. Beams welded on the right-hand welding robot are automatically tilted and transported to the other welding robot system, where the other side can be welded. It is partly as a result of this logistical automation that System Trailers has succeeded in reducing its lead time for the girders by 30%.

Partnership

Ralf Saatkamp: "We have a very efficient setup. The fact that we have very close control of the production of a large variety in a high volume production process means that we can offer our clients both cost and quality benefits. We have made a conscious choice not to enter the market with our own brand name. Ninety-five percent of the trailers that we produce leave the factory bearing our clients' logos. That enables us to manufacture customer-specific products under extremely favourable conditions. An important aspect of this is to build up a partnership with our customers in order to better meet their wishes. That is the basis on which we work with Valk Welding."

Automatic programming

"Our aim is to continue to increase our turnover. We currently have one single employee spending only 2 days a week on offline programming in DTPS. But we still want to integrate the programming more closely in the workflow. With that aim in mind we are now working in intensive partnership with Valk Welding to automate the programming of the welding robots with APG (Automated Program Generation) based on CAD data, linked to ERP.



Ralf Saatkamp: “We were immediately impressed by the first Valk Welding welding robot system.”

In this area, too, Valk Welding’s approach was clear. As well as its know-how, this also includes motivation, innovation and the flexibility of coming up with solutions."

Weld seam tracking with the Arc-Eye laser sensor

The next step is to use the Arc-Eye welding seam tracking system. The tolerances, differences and tension in the product that occur during the welding process make it necessary to check whether the position of the welding seam corresponds to the programmed position. Deviations cannot be predicted, which means that the programme can only be corrected afterwards. For this purpose Valk Welding uses Quick Touch (wire searching) and Arc-Sense to locate and then track the welding seam. To speed up that process and further improve the weld quality, System Trailers will be using Valk Welding's Arc-Eye weld tracking system. The Arc-Eye laser sensor is mounted in front of the welding torch and carries out circular scans to make a complete 3D image of the welding seam. Ralf Saatkamp: “That way the Arc-Eye system ensures that the welding robot precisely tracks the welding seam so that a reliable welding seam is made. This has also made it possible for us to take another step towards reducing the cycle time over 13.65 m.

www.system-trailers.de

EUROPE

Smart Industry Robot Solutions

Valk Welding works constantly on the development of hardware and software solutions to further improve production efficiency in the area of welding automation. Simplified and even automated programming in APG (Automated Programm Genration), CMRS (Custom Made Robot Software) and DTPS (Desk Top Programming and Simulation) are important items that Valk Welding has been developing for a long time for that purpose, under the name of 'Smart Industry Robot Solutions'. This has enabled clients to raise their output, improve their flexibility in an automated production environment, automate single item production with welding robots and achieve 'one piece flow' production.

System Trailers example of the use of welding robots for single item production

Similar software developments and the large scale interfacing of data (Internet or Things) are held up by policy officers of large banks and public authorities as examples for other industries under the heading of 'Smart Industry'. Smart Industry is a container concept around the key concepts of flexibilisation and optimisation for the sustainable growth of industry. Adriaan Broere: "This presents a major challenge for the sector and is one of our organisation's spearhead policies. For that purpose we are making a big effort in the area of software development so that our clients can manufacture products at a competitive cost price.

Smart Industry Robot Solutions something for your company?

Up until now the possibilities of automatic programming have been limited to companies that manufacture their own products. Van Hool (truck and bus building) System Trailers (trailer building), Auping (beds), Thyssen Krupp Encasa (stair lifts), Profielnorm (entresol floors) and Voortman (steel frames) are good examples of companies at which Valk Welding has already made this possible with software solutions.

Automation in DTPS

With a view to also providing these options to a wider target group, Valk Welding is working on ways of further automating the entire work preparation process in the programming system DTPS. Adriaan Broere:

Single piece production at Royal Auping

"For that purpose we're working in close partnership with **Panasonic** Welding Systems in Japan. This is however subject to the condition that the programs can be directly taken over 1:1 by the robot without any need for manual corrections. This is only possible with calibrated welding robot systems in combination with welding seam tracking systems."

More information?
info@valkwelding.com

CZECH
REPUBLIK

VOP welds 24/7 with increased output and maximum flexibility

Small batches produced by welding robots

Valk Welding has completed a unique project for the Czech supplier VOP, in which 21 types of fuel tanks for forklift trucks are welded from a warehouse system 24/7, virtually unmanned, on Panasonic welding robots. The project is an example of extensive automation, Industry 4.0 style with a large degree of flexibility. VOP has raised its capacity by 60% and shortened its turnaround times by 40% compared to the existing IGM welding robot. VOP is aiming to meet the production target of 35,000 fuel tanks a year with this system.

VOP CZ, S.P. employs more than 800 people, who together provide a broad range of professional services in the areas described above.

As well as manufacturing vehicles for the Ministry of Defence, VOP supplies articles such as fuel tanks for forklift trucks and agricultural vehicles. When the company became a certified supply of Caterpillar last year, the production target of 22,000 items was sharply raised to 35,000 a year. For that purpose, some items that were still being manually welded and some that were being welded on an existing IGM robot would from that point onwards have to be welded on a completely new production system. Engineer Mr. Horník: "We were therefore looking for a solution that enabled us to do this production-technically in the same area."

Ample robot experience

VOP already had over ten years' experience with robots when it took its first Valk Welding robot systems into use in 2006, and since then it has had Valk Welding convert two existing IGM welding robot systems with **Panasonic** welding robots. Based on that relationship, Valk Welding was also asked to develop a new welding production system. The project engineers of Valk Welding CZ set up the project entirely under their own responsibility and also worked with local parties in the tendering phase. Only the welding robot cells were supplied from Valk Welding in the Netherlands.

Large degree of flexibility

Despite the substantial production volume a large degree of flexibility was one of the most important items on VOP's wish list. A total of 21 different types had to be welded on call and per batch, also with the ability to process single items. The solution was found in using a central storage buffer for the pre-assembled tanks. Each tank can be transported with an unmanned conveyor system from the warehouse to the welding robot, welded and then delivered to an output station by the same conveyor.

Logistics automation

In order to be able prepare sufficient tanks in 2 day shifts for welding production during the night, the cell is equipped with seven tacking stations where the tanks are assembled and clamped onto a pallet. The conveyor stores each pallet in the warehouse, which provides 2 floors of space for a total of 72 pallets. The advantages of this setup are that the pallets can be quickly changed, each pallet is immediately available and there are no longer any loose tanks in the workplace.

Two identical robot cells

To meet the required welding capacity two identical welding robot cells have been provided, each of which is equipped with a drop-centre manipulator. This makes it possible to position the tanks in such a way that the **Panasonic** TA 1900 welding robots can reach all points at the best possible welding position. The average cycle time was thus reduced to 12 minutes. Up until that time the manual welding had taken 51 minutes, and the welding on the IGM robot almost 18 minutes. These time gains made it possible to achieve the higher annual capacity. The welding programmes for most of the tanks had already been prepared by Valk Welding's software programmers.

The tanks were assembled and loaded in two shifts, and welded during the night time. This is done entirely unmanned. The welding robots therefore no longer have to wait for an operator.

40% time gain

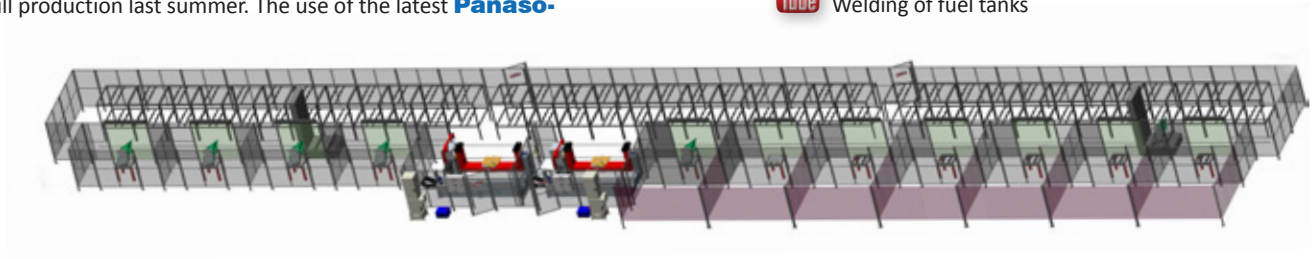
The entire system was first tested for 3 months and went into full production last summer. The use of the latest **Panasonic** WG3 arc welding technology ultimately reduced the cycle time even more than expected. A cycle time of 11 minutes means that VOP has achieved a time gain of 40% compared to the former IGM welding robot. Engineer Mr.Šturala: "Because of their speed and quality the use of **Panasonic** welding robots is at anyhow a neccesisty for achieving this production volume.

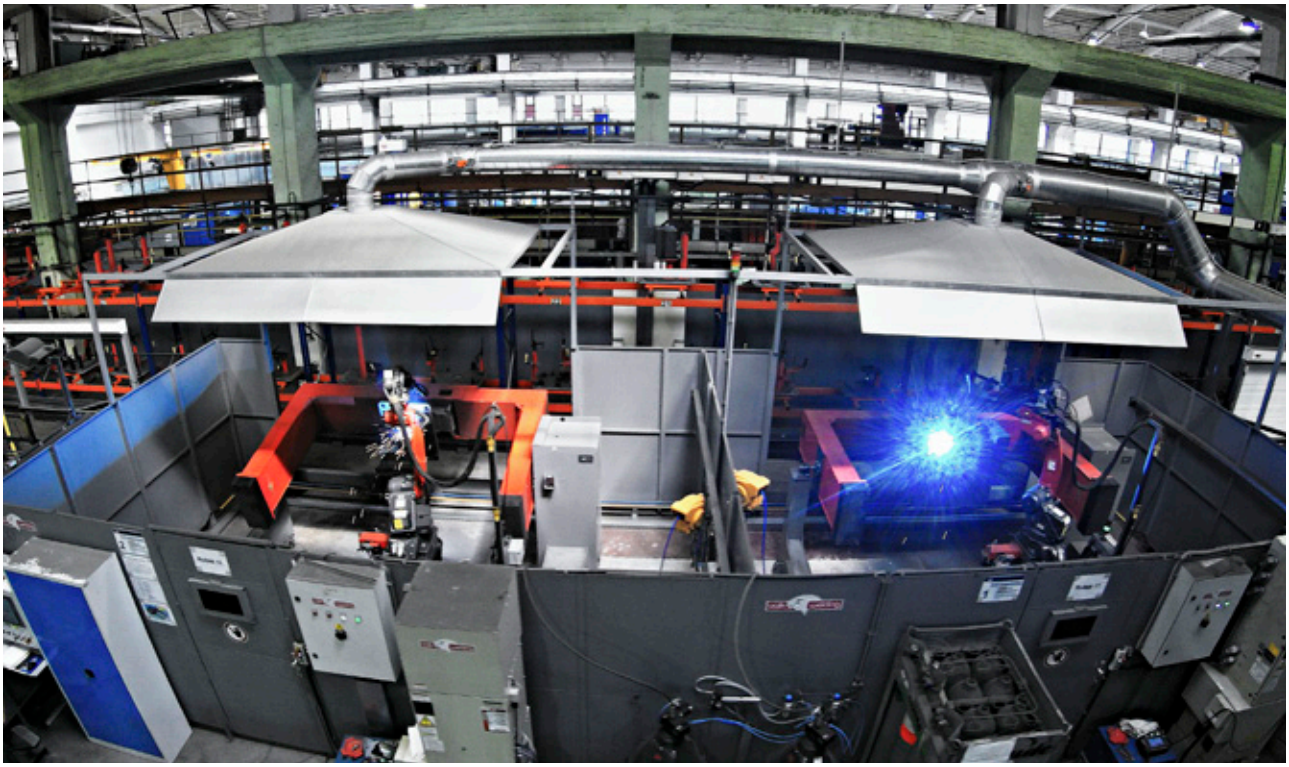
Flexible response to market demand

VOP regards having a production system such as this as a absolute necessity, not only to achieve the required production volume but also to be able to respond flexibly and quickly to market demand. Mr. Horník:"From our warehouse we can prepare a large number of tanks and weld them on call, which enables us to supply our customers quickly and just-in-time." With this flexible welding production cell VOP is well ahead of its time and VOP will keep its production facility in the Czech Republic.

www.vop.cz

www.youtube.com/valkwelding:
Welding of fuel tanks



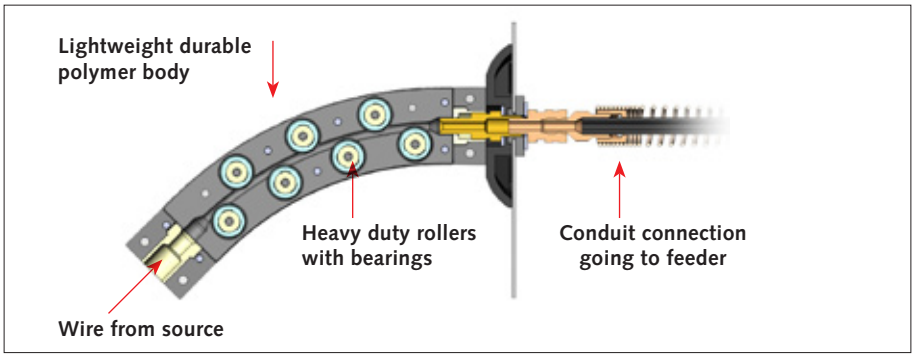


EUROPE

Wear out of conduits, hidden cost center

More info? Mail Peter Haspels:
info@wire-wizard.eu

As the number of welding robots in production systems increases, companies are paying more and more attention to the maintenance costs. Replacing the cable assemblies that feed the welding wire from the drum to the welding robots is an expensive business. At places where the welding wire is subject to the most friction, such as short bends, do not only cause excessive wear in the cables, but also overload The wirefeeder motor. For that reason a number of companies mainly in the automotive industry use Wire Guide Modules. These modules eliminate the friction in the bends and angles, so that the cables last much longer and create a substantial saving on the maintenance costs. Large companies that use multiple welding robots are now also discovering the advantages of these Wire Guide Modules.



Wire Guide Modules are 45º wire guiding elements with roller bearings that enables to guide welding wire through short bends without any friction being generated. The Wire Guide Modules are a component of the Wire Wizard programme for wire feeding and consist of a lightweight polymer body featuring bearing rollers that guide the welding wire through the bends with barely any friction at all.

These bends are connected together with the familiar Wire Wizard cables and connectors. The cables themselves create also much less friction when feeding the welding wire than competing brands, and ensure that the wire is passed with low force over larger distances from the drum to the welding robot or other welding applications.

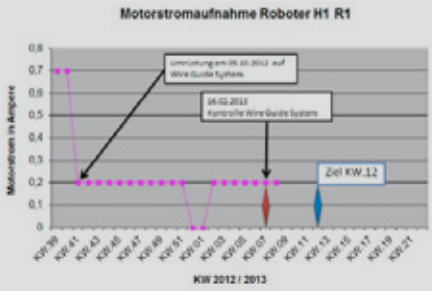
Just ask yourself the following questions to find out how much you can save:
- How often do the cables have to be replaced?
- How much downtime of my welding robot does this cause?
- How many man hours does these countermeasures take?

Test at VW

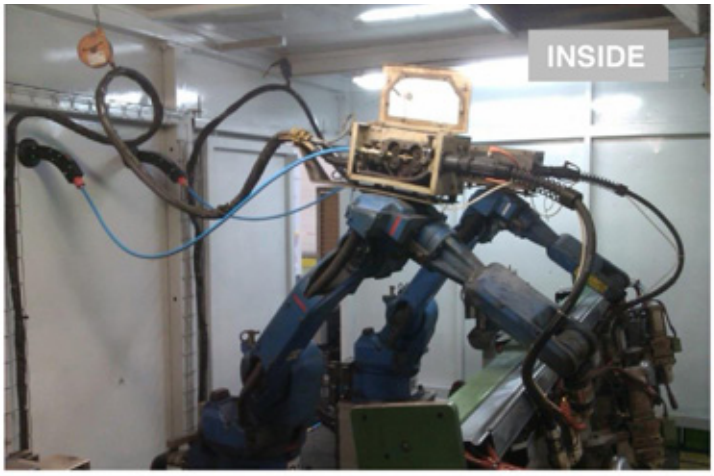
A recent pilot at Volkswagen demonstrated that after installing the Wire Guide Modules, the cables only needed to be replaced after two years rather than every two weeks.

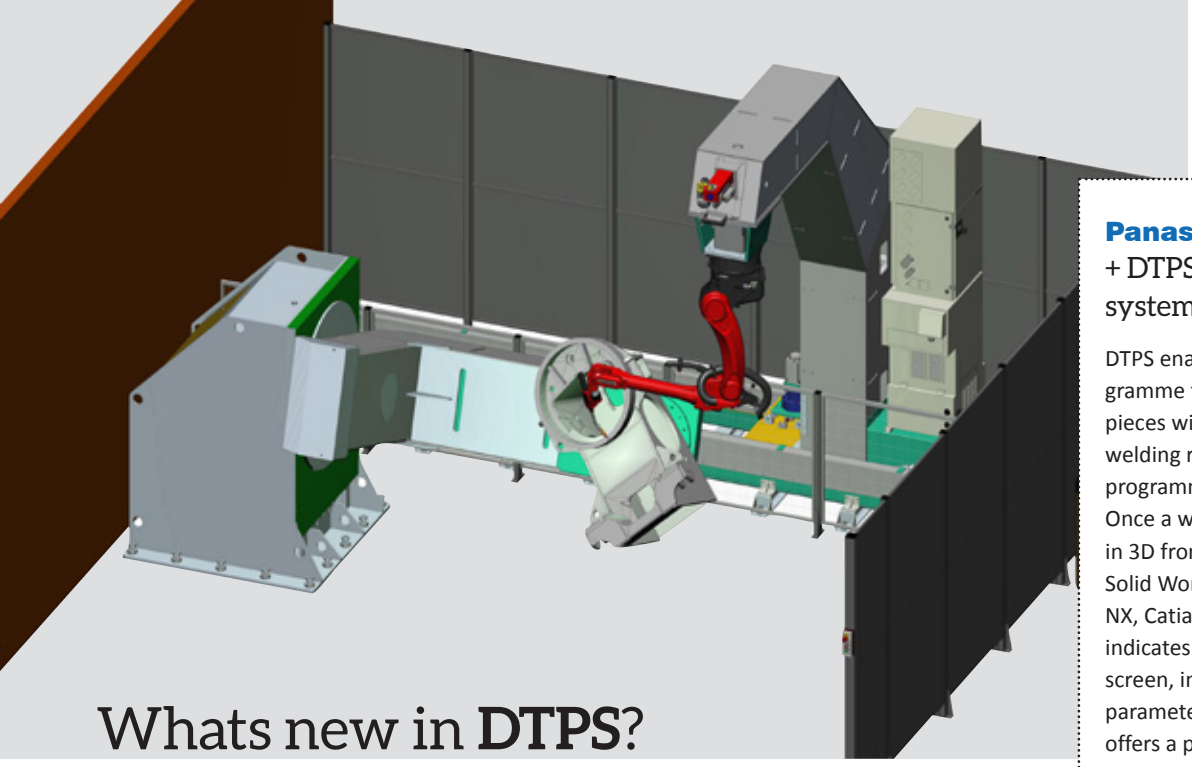
Drum on gantry above robot

The wire cable makes a bend of 180° from the welding wire drum and then goes downwards into the welding robot cell. Replacing this 180 degree bend in the wire cable with four connected modules reduced the current used by the wire motor from 0.7A to 0.2A, and it remained at this level. In the previous situation Volkswagen replaced the wire cables every two weeks because otherwise the wirefeeder motor current rose above 0.7A, resulting in wire feeding problems and production downtime.
In the new situation the current of the wire feeder motor remained at 0.2A and the wire cables did not need to be replaced even after being used for two years.



Meer toepassingsvoorbeelden vindt u op:
www.wire-wizard.eu/gallery/wire-guide-modules-in-use





Whats new in **DTPS**?

Valk Welding explains to DTPS users about the latest developments every year

With more than 300 companies that use the offline programming and simulation software DTPS for the offline programming for their Panasonic welding robot systems, DTPS is one of the most used off-line programming systems for arc-welding inthe world. Valk Welding invites licensees to an informative DTPS Users Day every year to talk about the latest developments in offline programming and to ask them for their feedback. At the end of May this year almost 80 visitors arrived from various countries for the sixth DTPS Users Day in Alblasserdam, the headquarters from the Valk Welding group.

Valk Welding and **Panasonic** Welding Systems continuously work on expanding the software with functions that speed up the programming and control the welding process even more closely. For this purpose a new Management Information System was introduced to provide real-time access to the most important data. See page 3 for information about MIS 2.0.

Many new functions

The new version includes a tool for speeding up the graphic display during orbit, pan and zoom in complex 3D models.
There is also a new macro function that makes it possible to manipulate a program, including the auto-function of all sorts of tasks such as transferring programs, mirroring, exchanging external axis data, find & replace operations and much more. Clients are now also able to make complete parametric solutions in DTPS without the intervention of Valk Welding software experts. The macros are shared in the internal forum with other users, and the assistance of Valk Welding experts is called on as required.

Another handy tool that speeds up the programming process is a short cut for measuring plate thickness. This directly shows the thickness of a selected plate section, which can then be used to select the right welding parameters. The most important innovation however is programming with Teach Navi 2.0, which makes it possible to position the external axis fully automatically in order to weld in PA or PB position, for instance.

By extending the functionality Valk Welding and **Panasonic** Welding Systems continuously ensure that users are able to get more and more functionalities out of their programming software.

More information?
info@valkwelding.com

Panasonic welding robots + DTPS, thé only all-in-one system

DTPS enables companies to programme the most complex work pieces without having to stop the welding robot, as is the case when programming with a teach pendant. Once a work piece has been imported in 3D from a CAD system such as Creo, Solid Works, Solid Edge, Inventor, NX, Catia, etc., the work planning indicates the welding position on the screen, including the desired welding parameters. Since the software also offers a powerful 3D simulation with collision detection, the programs can be controlled down to the finest details before being sent to the welding robot controller. The jigs can also be designed and tested using DTPS as the planning tool and registering all of the welding process data. That makes DTPS in combination with the **Panasonic** TA arc welding robots the only all-in-one system and also the most powerful and flexible system for robotised welding.

DTPS Users Day 2015

Higher precision with new welding filter

Speedglas has developed a new, automatically dark-colouring 9100XXi welding filter kit especially for accurate welding work. The specially designed optical properties of this new filter enables welders to see more details. They can focus more closely on the weld preparation, welding position, the inspection of the completed welds and precision grinding work.

Now available from Valk Welding.
More info: AVL@valkwelding.com

Speedglas 9100XXi welding filterkit

With the new 9100XXi it is easier for welders to distinguish colours in their work environment, such as the coloured operating panels on welding machines.
The external control elements for the grinding position and memory functions of the welding filter are included in the newly designed silver front panel 9100XXi, which is used in combination with welding filter 9100XXi.

Benefits of the 9100XXi welding filter kit

- sharper contrast
- natural colours
- grinding position
- memory function
- auto on/off function
- compatible with Speedglas 9100/9100 Air and 9100-QR

Repeat orders from VDL Groep

NETHERLANDS

Valk Welding has received several repeat orders orders for welding robot systems to be supplied to two manufacturing plants of the VDL Groep. VDL Groep develops, produces and sellssub-components, buses and other end-products and also assembles passenger cars (Mini-Cooper). This privately ownwed company has a total of 87 production facilities in 19 countries, employing approximately 10,400 people. Valk Welding is a welding robot integrator operating through its own subsidiaries in several European and other countries, and with over 2,500 installed welding robot systems the company is among the largest welding robot integrators and independent welding wire suppliers in Europe.

Last year Valk Welding delivered a welding robot system to VDL Containersystemen in Hapert. Based on the good experiences in which a important role was played by offline programming, Valk Welding will now be delivering two multifunctional welding robot systems to VDL Bus Modules in Valkenswaard and VDL Staalservice in Weert. The delivery comprises **Panasonic** welding robots on an E-shaped torsion-free frame structure in a single and double version. VDL Bus Modules will be using the new welding robot system to weld sub-components for their production.
www.vdlgroep.com

www.youtube.com/valkwelding:
Welding of Automatic Guided Vehicles (AGV's)

Tradeshows

Metavak
Gorinchem, Netherlands
October 27-29 2015

Tolexpo 2015
Paris-North Villepinte, France
November 17-20 2015

Smart Industry Event
Rotterdam, Netherlands
December 8th 2015

Sepem Industries Nord-Ouest
Rouen, France
January 26-28 2016

TechniShow 2016
Utrecht, Netherlands
March 15-18 2016

Industrie Paris
Paris-North Villepinte, France
April 4-8 2016

Elmia Automation
Jönköping, Sweden
May 10-13 2016

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