

2023-02-20

Hall: 2 Booth: 2A26

## SCHWEISSEN & SCHNEIDEN

### WAAM Technology

GED?K Welding together with Istanbul GED?K University conducts R&D works in the field of Metal Additive Manufacturing, particularly in the field of Robotic Wire Arc Additive Manufacturing (WAAM).

GED?K Welding develops and produces new generation of solid and metal cored wires for innovative and challenging 3D WAAM applications, where low and high strength design requirements both may exist. Non-ferrous welding wires such as stainless steel, aluminium and bronze alloys can also be provided together with respective process and material data sheets that designers and customers can readily use for their WAAM applications.

GED?K Welding can provide “ GeKa WAAM Cell” including welding robot, power source, positioner together with respective software and special wires including GeKa WAAM Data Sheets.

Ask us about the manufacturing system for your Metal 3D part using Robotic WAAM Technology

Ask us about obtaining the best WAAM welding wires for your Metal 3D Part

Ask us about education – training – certification of your WAAM (DED-Arc) Engineers and Operators

At the booth you will learn more about the exceptional value of WAAM technology.

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2023-04-18

Hall: 3 Booth: 3B17

SCHWEISSEN & SCHNEIDEN

GTAW 200P PFC

GTAW 200P PFC with power factor more than 0.99 has multiple advantages such as energy saving and wider input voltage. It works with 110V and 220V.

You can select unique spot time/pulse time function and pre/post flow time freely. GTAW 200P PFC with pulse has perfect performance on ultra thin surfaces with no deformation. It is equipped with temperature, voltage and current sensors for high protection.

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2023-07-06

Hall: 4 Booth: 4F38

## SCHWEISSEN & SCHNEIDEN

### MetalXL

MetalXL is built by MX3D to enable 3D metal printing of large metal parts in-house, using robotic WAAM technology (Wire Arc Additive Manufacturing).

MetalXL is integrated to an off-the-shelf industrial robot and power source and transforms it into an industrial grade 3D metal printer.

Its streamlined end-to-end workflow allows users to easily manage the whole printing process from design to print, including data monitoring, logging and analytics.

MetalXL is independent of hardware configuration and easy to use. It offers diverse features to both print with preset metal alloys and process parameters, or customize the entire process to your own needs.

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2023-06-06

Hall: 5 Booth: 5C10

## SCHWEISSEN & SCHNEIDEN

### AL3D Metal - 3D metal printer

The AL3D-METAL makes it possible to produce complex objects from metal quickly and precisely.

By means of 3D metal printing, you produce components for high quality requirements, which are manufactured very precisely and grant an enormous freedom of design and geometry. The closed powder circuit of this metal printer increases work safety, because the operator does not come into contact with the powder during the entire printing process.

The small build platform size of the AL-3D enables powder-saving printing of precious metals such as Gold, Platinum and Silver. This makes the AL3D-METAL ideal for jewellery manufacturing companies. A large database of verified parameters for stainless steels, cobalt chrome, reactive materials such as Titanium, as well as for various precious metals is available to ALPHA LASER customers.

A big advantage is the fast powder change with short cleaning of the system. With its small footprint of 600 \* 617 millimetre, the 3D metal printer is also suitable for companies with limited space.

AL3D is well known for:

- | Innovative cartridge system for safer powder handling allowing it to have a downtime of only 15 minutes
- | In-House software development
- | Intuitive user interface
- | Modular filter system
- | Provides print reports

Printing speed, precision, and safety characterize the AL3D METAL printer.

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2023-03-28

Hall: 4 Booth: 4B08

## SCHWEISSEN & SCHNEIDEN

FerroTiC Titanium Carbide steel cemented hardmetal powders

Advanced Metallurgy Technology Co., Ltd. presents FerroTiC Titanium Carbide steel cemented hardmetal powders for HVOF thermal spraying at volume price 1/4 of WC-10Co-4Cr.

### **AMTmetalTech**

Unique top quality world lowest price FerroTiC Titanium Carbide cemented hardmetal powders for HVOF thermal spraying adopt duplex stainless steel as the matrix, so that the corrosion resistance is better than 316L. Wear resistance is next to WC-10Co-4Cr. Volume price is one quarter of WC-10Co-4Cr. Also can be used for high speed laser cladding of wear and corrosion resistance.

As the world leading Metallurgy company of solutions in 1000 degree high temperature severe corrosion / erosion / cavitation / abrasion / wear resistance, AMTmetalTech philosophy is always making various alloy powders including gas atomized MCrAlY / inconel / stellite / duplex stainless steel powders, and agglomerated sintered WC-Co / Cr3C2-NiCr / mo powders at consistent top quality, continuous lowest price, quickest delivery in the world.

[www.AMTmetalTech.com/StandardProducts/](http://www.AMTmetalTech.com/StandardProducts/)

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2023-03-10

Hall: 4 Booth: 4E12

## SCHWEISSEN & SCHNEIDEN

### Battery powered inverter welder AK-370

Cordless inverter welder AK-370, built-in 2405Wh li-ion pack, maximum output 150A, duty cycle 100 per cent, one single charge can weld up to 41 pieces of 3.25 millimetre electrodes or 85 pieces of 2.5 millimetre electrodes.

Cordless welders are widely used in Petrolchemical maintenance, mining, construction, steel industry, service truck, agricultural, ships, as well as bridges, they are perfect for welding in remote locations, construction sites, and highly suitable for welding in electrically hazardous environment.

This model got CE approval, distributors worldwide are welcome.

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2022-11-15

Hall: 5 Booth: 5A27

## SCHWEISSEN & SCHNEIDEN

Energy-efficient: Yaskawa robots with regenerative braking

Yaskawa offers a technical solution for the recovery of robot braking energy into the power grid – as a standard and without additional hardware. All larger MOTOMAN robot series with a payload upwards of approximately 50 kilogram and the latest YRC1000 robot controls are able to convert kinetic energy from down and sideways movements directly into 400 V AC at 50 Hz and feed it back into the net. Depending on its movement pattern, the robot's energy requirements are therewith significantly reduced.

Prerequisite for this energy recovery is the standard YRC1000 robot controller in conjunction with the larger robots with payloads upwards of approximately 50 kilogram.

In their very diverse tasks – such as handling, palletizing, joining and processing – industrial robots make many down or sideways movements, during which the servomotors dissipate energy and potentially generate electricity. Up until now, in older or other robot models on the market, the resulting energy has been converted to waste heat by control technology through electrical resistance and lost to the environment.

In the Yaskawa solution, the electric energy is fed back into the operator network without additional hardware and reused. Savings in the eight to 25 per cent range can be anticipated. This may well result in annual feed-ins of about 2,800 kWh, with savings of about 1,600 kilogram CO<sub>2</sub> and 1200 Euro.

With this hitherto unique technical solution, Yaskawa has applied its experience as manufacturer of drive technology – after all, all servo drives and control packages are in-house products, and accordingly optimal tailored to industrial robots. MOTOMAN robots open up further efficiency potential due to their slim and compact design with low moving masses and fast application of brakes during movement intervals, in order to switch off the active position control when not in use.

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2023-06-09

Hall: 4 Booth: 4F35

## SCHWEISSEN & SCHNEIDEN

Traceless welding gun

Milco&Welform presents its traceless welding gun.

Traceless surface: A perfectly balanced traceless surface can be obtained on the static side.

Meltcore: Reliable core size.

High pressure: Output pressure up to 4KN.

Modular: Replaceable dual drive unit.

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2023-05-13

Hall: 2 Booth: 2A21

## SCHWEISSEN & SCHNEIDEN

### Gas cartridge edge welding torch set

The new PERKEO UPSIDE gas cartridge edge welding torch is the perfect little torch for special and short-term uses on the roof.

It is operated with the new UPSIDE special gas cartridges and burns for up to 45 minutes with a UPSIDE gas cartridge. The burner is immediately usable "overhead" and can be used in any position. The flame from the 25 millimetre high-performance burner head is extremely powerful and enables bitumen edges and corners to be welded on quickly. UPSIDE is the ideal little helper for all repair work on the roof.

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2022-11-14

Hall: 2 Booth: 2C38

## SCHWEISSEN & SCHNEIDEN

### HFT-2000 SS Collaring Unit

Pipe branching by the T-DRILL method is also called collaring, mechanical tee forming, or simply T-DRILL tees. The T-DRILL method of pipe branching is an ideal solution for making tee joints in main run tubes in just a couple of minutes. HFT-2000 SS is used in conjunction with the T-DRILL T-65 SS collaring machine. The Hand Feed Table (HFT) is capable of producing collars O.D. 17 to 54 millimetre ( $\frac{3}{4}$ " – 2") in run tubes O.D. 32 to 114 millimetre (1  $\frac{1}{4}$ " – 4").

- | No T-fittings
- | No costly inventories
- | No tube cutting
- | Only one welded joint
- | Minimized inspection cost
- | Tee ratio variation flexibility
- | Smaller risk of leakage or call-backs
- | Optimized flow-characteristics
- | Hygienic, clean weld points

[T-DRILL HFT-2000 SS Product page](#)

[T-DRILL technologies](#)

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