

# STAKO THE ART OF CUTTING

MANUFACTURER OF CNC CUTTING MACHINES

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**STAKO**   
THE ART OF CUTTING

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# INTRODUCTION\_

SINCE THE LATE-EIGHTIES STAKO DELIVERS HIGH QUALITY, INNOVATIVE CNC CUTTING MACHINES (PLASMA, OXY FUEL, WATER JET AND LASER). WE ARE A TRUE FAMILY BUSINESS. THE CORRESPONDING PASSION AND COMMITMENT IS ENDORSED BY EVERYONE WITHIN THE ORGANIZATION AND THESE VALUES ARE REFLECTED ON THE RELATIONSHIP WITH OUR CUSTOMERS.

In close cooperation with our customers, we offer a qualitative solution for every cutting need. Through the years we have developed a wide range of CNC cutting machines for plate and pipe cutting. These machines can be equipped with the most modern techniques, such as bevel cutting.

Besides our standard range of CNC cutting machines, Stako specializes in "custom made" cutting solutions. Our R&D Department invites you to challenge them in creating a solution for your cutting needs!

In addition to innovation and quality, Service and After-sales are a high priority for Stako. Because the entire production line is in own hands and in combination with years of experience, we can offer the best service. Providing the best and most efficient service, we strive for minimum downtime, forming a good base for future collaboration.

Our ambition is to obtain and to hold the most prominent position in the world of CNC cutting. To achieve this goal we aspire to be a transparent and reliable partner for our customers. We would like to invite you to share with us your ideas and problems regarding your cutting process.

You are more than welcome to visit Stako and enter our Art of cutting.

Yours Sincerely,

Markus Peters  
General Manager

# SERVICE & AFTERSALES

STAKO CONSIDERS SERVICE AND AFTERSALES AS ONE OF THE CORE ACTIVITIES OF OUR ORGANISATION. OUR CUSTOMERS HIGHLY APPRECIATE OUR GOOD JUDGEMENT AND THE 25 YEARS OF EXPERIENCE THAT WE BRING TO THE TABLE.

Because the entire production is in our own hands, from construction to the commissioning of the CNC cutting machine, we can offer the correct service. The in company knowledge is guaranteed, therefore continuity and reliability are proven again and again. That means you have a regular contact person within the organisation, which results in effective and short reaction times.

Our qualified service team is more than capable to handle and solve your problems or repairs. As a result, a possible downtime can be reduced to a minimum.

Machine training, software training, a maintenance- or consumable- contract are important parts of the complete service Stako provides. In our economical world a fast response is a must. In order to be as transparent as possible and to ensure fast response time and good support we use a CRM program, which provides our people with the proper information worldwide. This system is applicable to both existing customers as well as new customers.

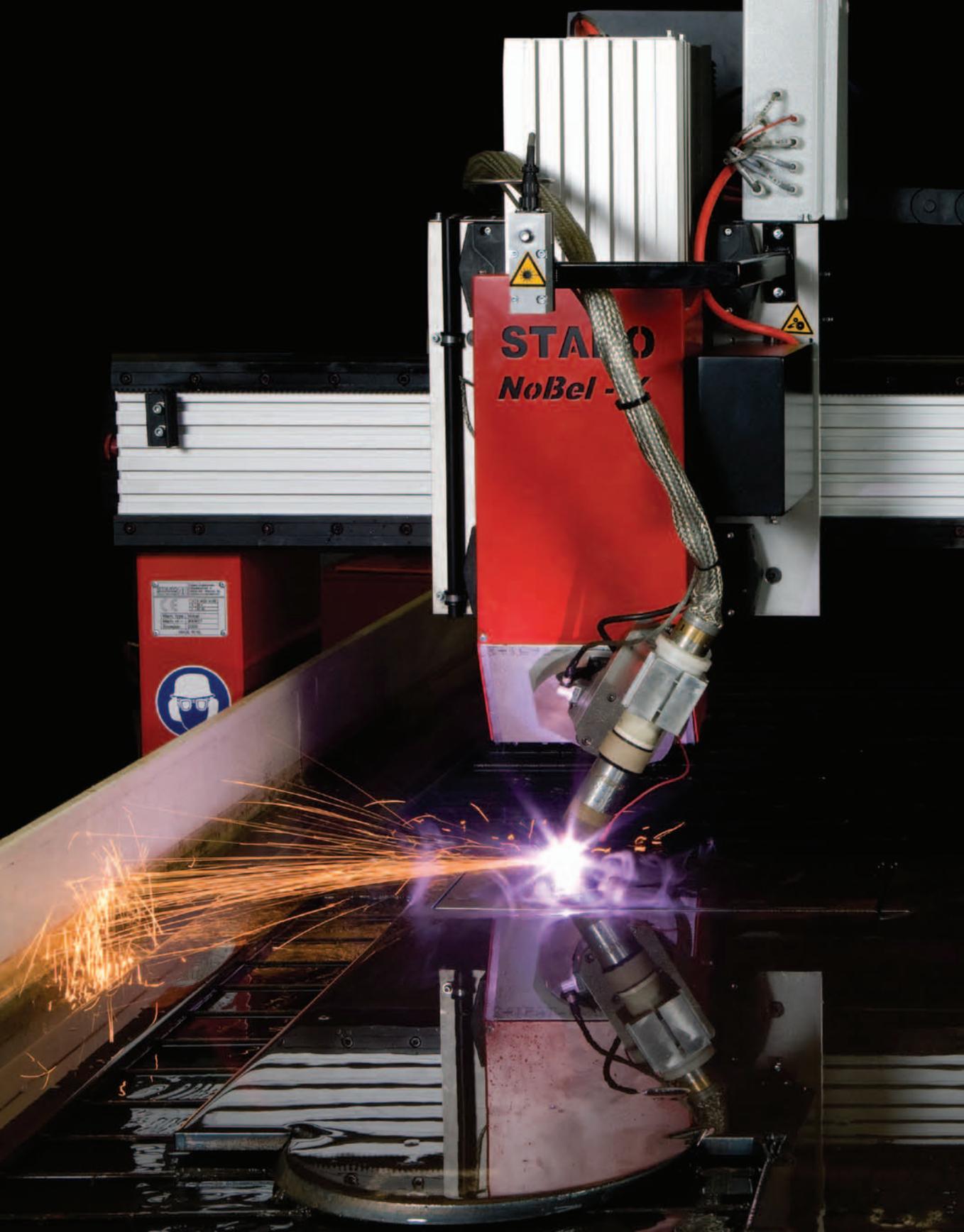
Besides personal contact with our sales department, we also have a service team at your disposal. They are standing by to answer all your questions. It is also possible to connect the machine to the internet, giving us the opportunity to analyze the problem from a distance.

At Stako, we regard Service & Aftersales as the foundation of an optimal cooperation!

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## PLATE CUTTING MACHINES\_

**TRADITIONALLY, STAKO IS A MANUFACTURER OF CNC PLATE CUTTING MACHINES. BECAUSE THE DIVERSITY AND TECHNICAL POSSIBILITIES OF OUR MACHINES, WE ARE CONVINCED THAT WE CAN OFFER YOU THE OPTIMAL CUTTING MACHINE FOR YOUR PRODUCTION NEEDS.**

Because Stako, in personal contact with our customers, always wishes to deliver a machine suited for your production and your precise cutting needs, no technical descriptions and sizes of the machines are given in this brochure.

Stako cutting machines are well known for their high quality. Technical components like servo motors, touchscreen CNC controller and V-rail with helical rack, guarantee user-friendliness for the operator and great durability. This, together with our attention for the environment, makes the choice for a Stako cutting machine a well-thought-out decision.

Our R&D-department, next to applying existing reliable techniques, is always on the lookout for possible innovations. Because of this, Stako is one step ahead in, for example, under water plasma cutting (green label technique) and the most modern 3D cutting head, the Pantograph.

We invite you to visit our showroom. Let us convince you of the quality and diversity of our machines. We will proudly give you a tour of our company.

We hope to give you a complete image of our range of machines and cutting possibilities. Should you have any questions, feel free to contact us for further information.

# SPEKTRUM\_

## GREATNESS BY PERFORMANCE

THE SPEKTRUM OFFERS, BY USING AN INTEGRATED TRACK, A COMPACT SOLUTION WHICH CAN BE MOUNTED WITHIN YOUR PRODUCTION PROCESS IN A SHORT AMOUNT OF TIME. THE MACHINE IS LIGHT WEIGHTED BUT HEAVILY EQUIPPED CONCERNING THE POSSIBILITIES AND THE ACCURACY OF THIS MACHINE.

The high quality motors and light weight combination makes the Spektrum very suitable for high speeds and a competitor for laser cutting machines.

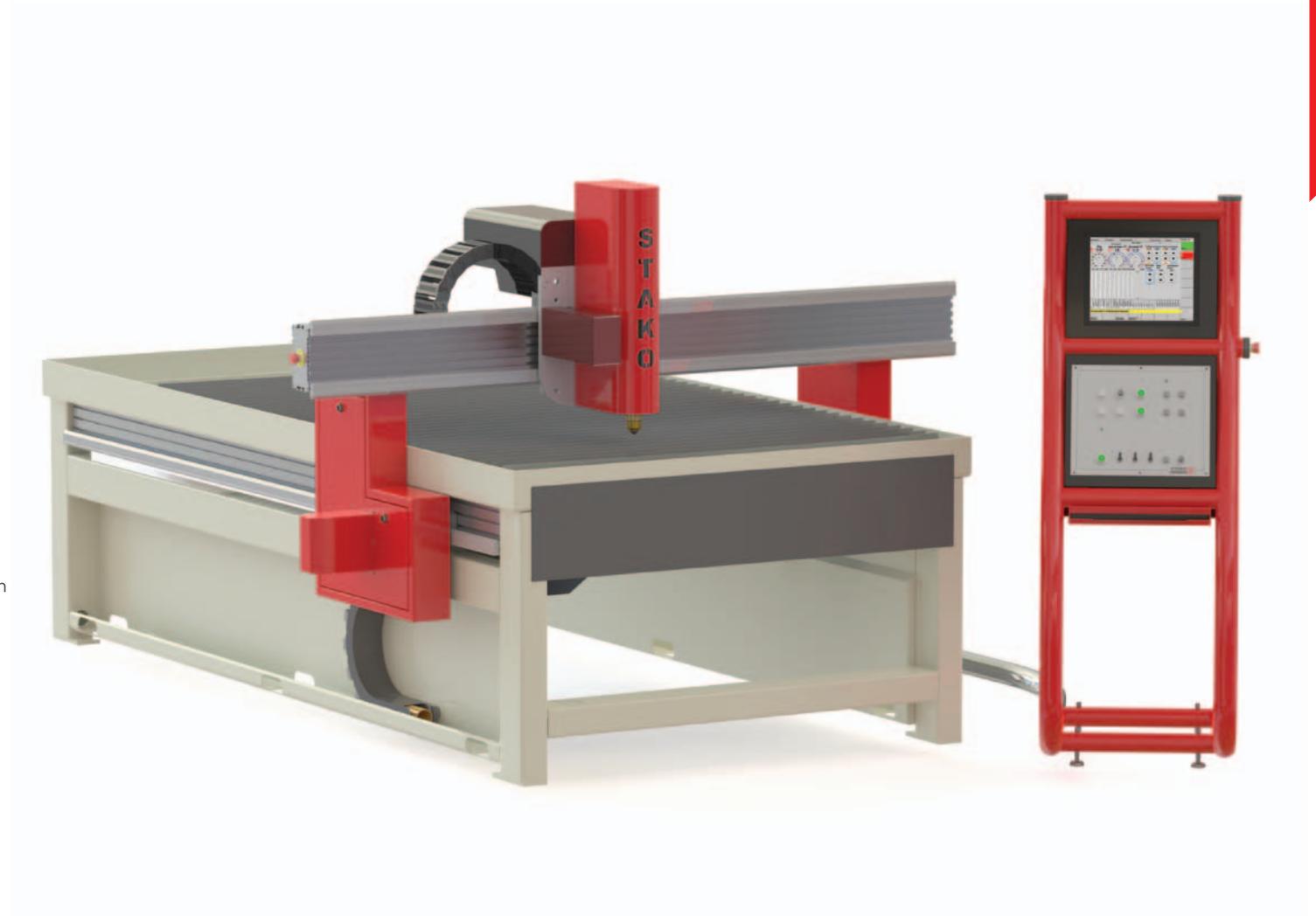


### APPLICATIONS:

- ❑ Air channel work
- ❑ Machine building
- ❑ Stairs building
- ❑ Job cutting centres
- ❑ Construction work

### CHARACTERISTICS:

- ❑ Compact and solid machine
- ❑ Suitable for plasma at high speed
- ❑ Versatile by the use of marking/drill and tap units
- ❑ Controlled by AC-servo motors
- ❑ High accuracy
- ❑ Solid machine with integrated track
- ❑ Operator friendly by using touch screen CNC controller
- ❑ Stand-alone operation



# ECONUM\_

## ONE STEP AHEAD TO OTHER MACHINES

THE ECONUM IS AN INDUSTRIAL CNC CONTROLLED CUTTING MACHINE, SUITABLE FOR PLASMA AND OXY FUEL CUTTING. THE SEPARATED RAIL OFFERS, BESIDES A SOLID MACHINE BASE, THE POSSIBILITY TO CHOOSE BETWEEN A DRY CUTTING TABLE AND A WATER TABLE. THE FIRM BRIDGE IS SUITED FOR THE COMBINATION OF DIFFERENT CUTTING PROCESSES AND MACHINES OPTIONS LIKE FOR EXAMPLE A MARKING UNIT.

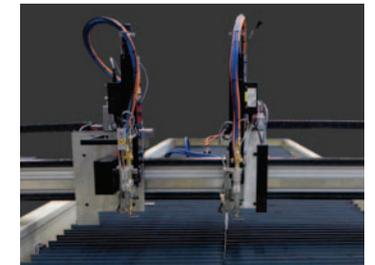
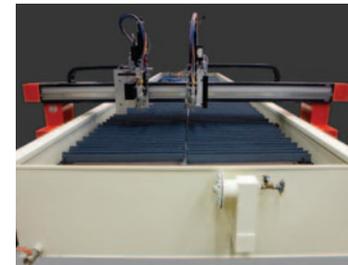
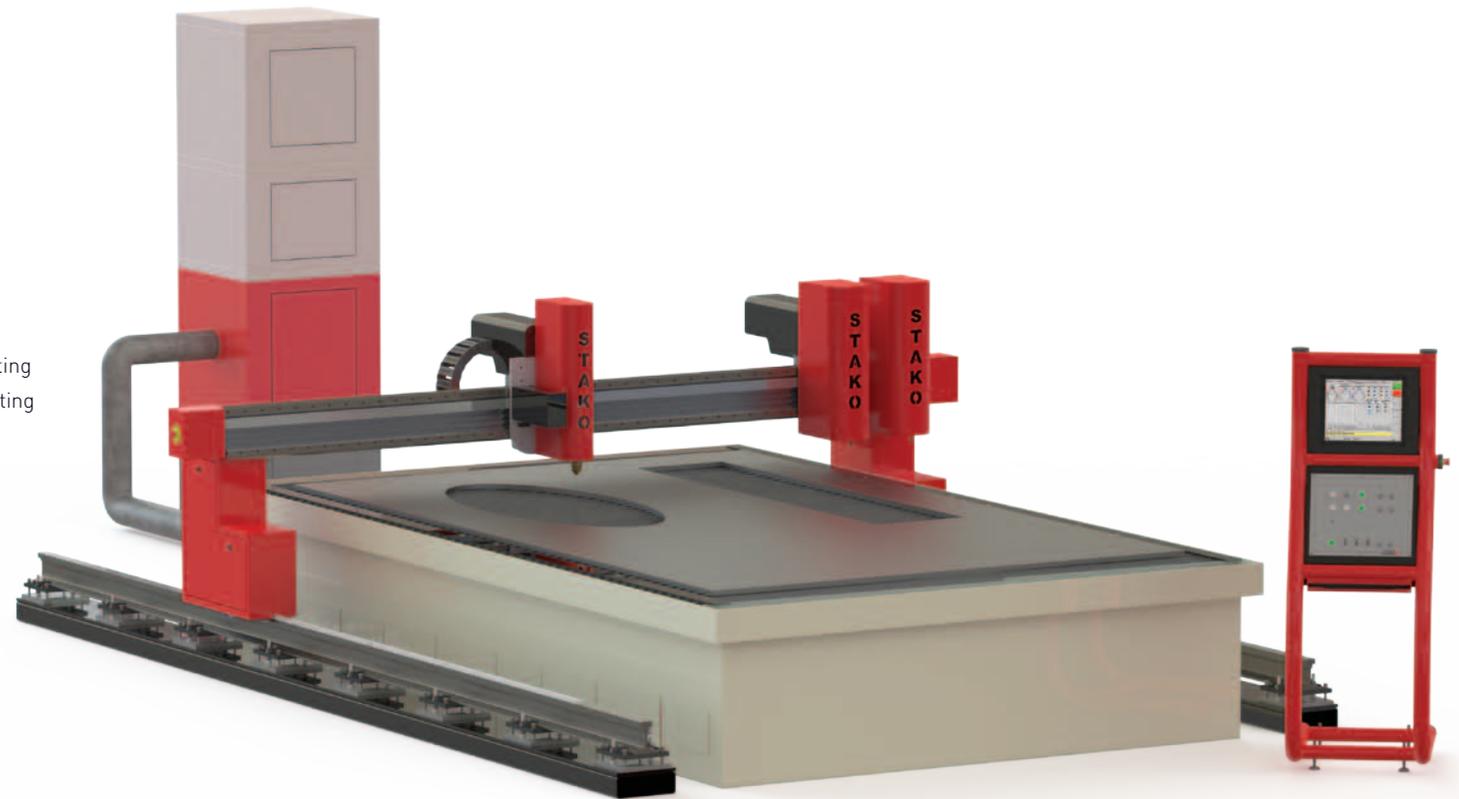
Because of his economic build and use of high quality components this versatile machine offers a great price/quality ratio.

### APPLICATIONS:

- ❑ Construction work
- ❑ Machine building
- ❑ Yacht and ship building
- ❑ Job cutting centres

### CHARACTERISTICS:

- ❑ Great price/quality ratio
- ❑ Suitable for plasma and oxy fuel cutting
- ❑ Versatile by the use of combined cutting processes
- ❑ Dry cutting table or Water table
- ❑ Controlled by AC-servo motors
- ❑ High accuracy
- ❑ Separated track
- ❑ Operator friendly by using touch screen CNC controller
- ❑ Marking options



# TRIUM\_

## PROOF OF VERSATILITY

IF THE INFLUENCE OF TEMPERATURE DURING THE CUTTING PROCESS CREATES POSSIBLE PROBLEMS OR IF YOUR COMPANY REQUIRES TO CUT DIFFERENT KIND OF MATERIALS, STAKO IS PRESENTING THE TRIUM: THE WATER JET CUTTING MACHINE.

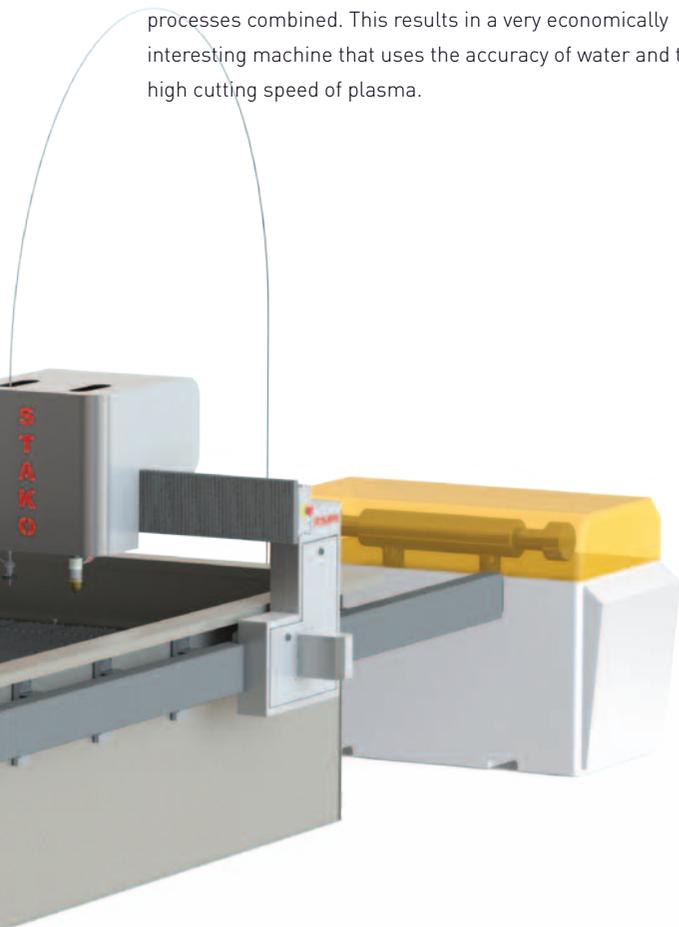
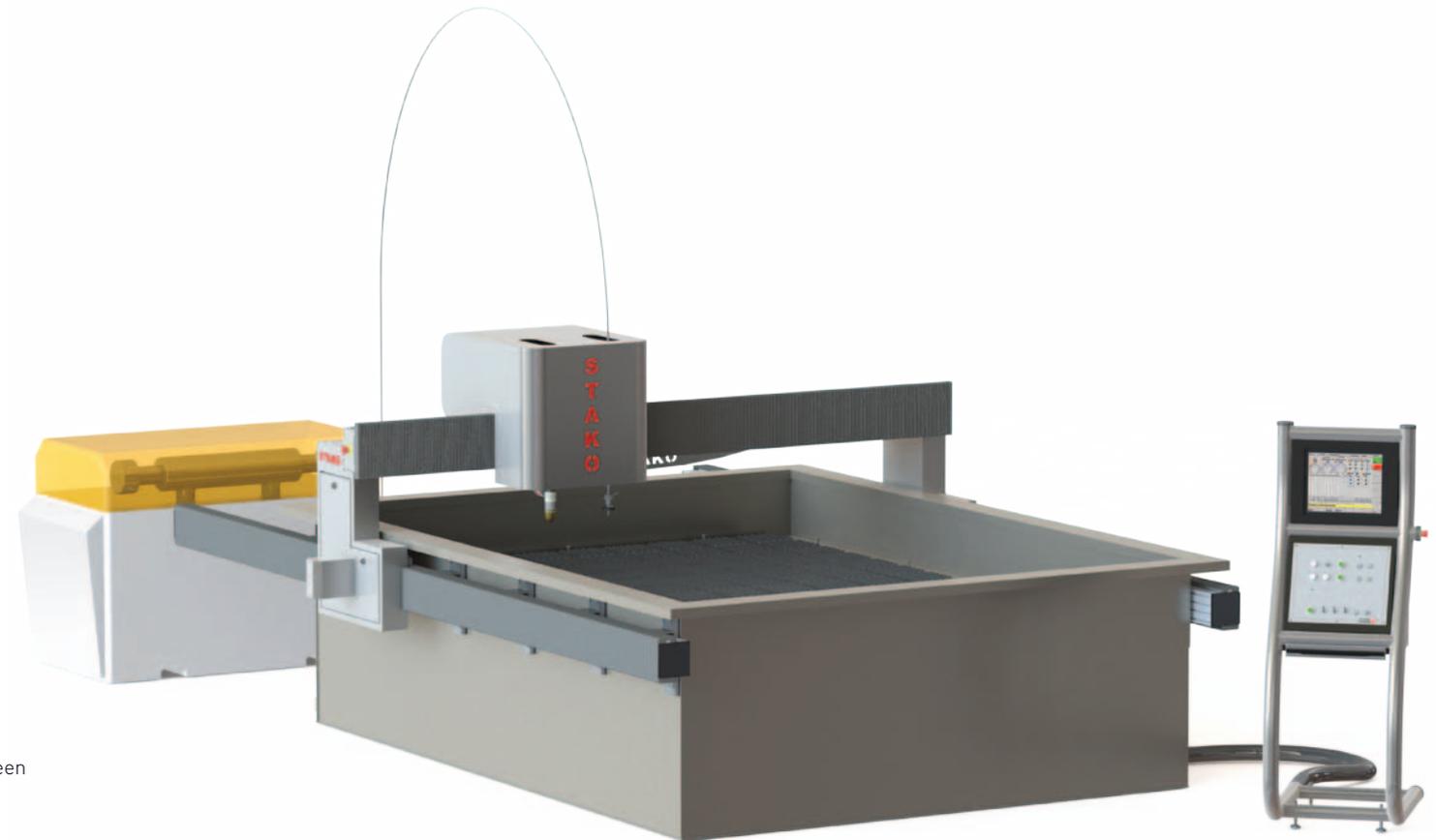
Next to the Trium Stako offers the Trium WPC (water-plasma combination). It offers the great benefits of two cutting processes combined. This results in a very economically interesting machine that uses the accuracy of water and the high cutting speed of plasma.

### APPLICATIONS:

- ❑ Air and astronautics
- ❑ Machine building
- ❑ Special products
- ❑ Technical education
- ❑ Job cutting centres
- ❑ Yacht building
- ❑ Natural stone treatment

### CHARACTERISTICS:

- ❑ Compact and solid machine
- ❑ High precision: water jet
- ❑ High cutting speed: plasma
- ❑ Versatile by the use different processes
- ❑ Water table
- ❑ Controlled by AC-servo motors
- ❑ Automatic abrasive unit
- ❑ Operator friendly by using touch screen CNC controller
- ❑ Stand-alone operation



# NOVUM\_

## WELCOME TO THE TOP SEGMENT

THE NOVUM IS ONE OF STAKO'S HEAVIER MACHINES. THIS COMPACT MACHINE WITH INTEGRATED GREEN LABEL WATER TABLE IS COMMONLY USED FOR THE MOST DIVERSE (PLASMA AND OXYGEN) CUTTING JOBS.

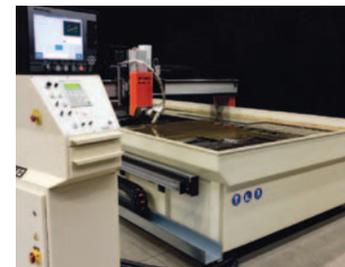
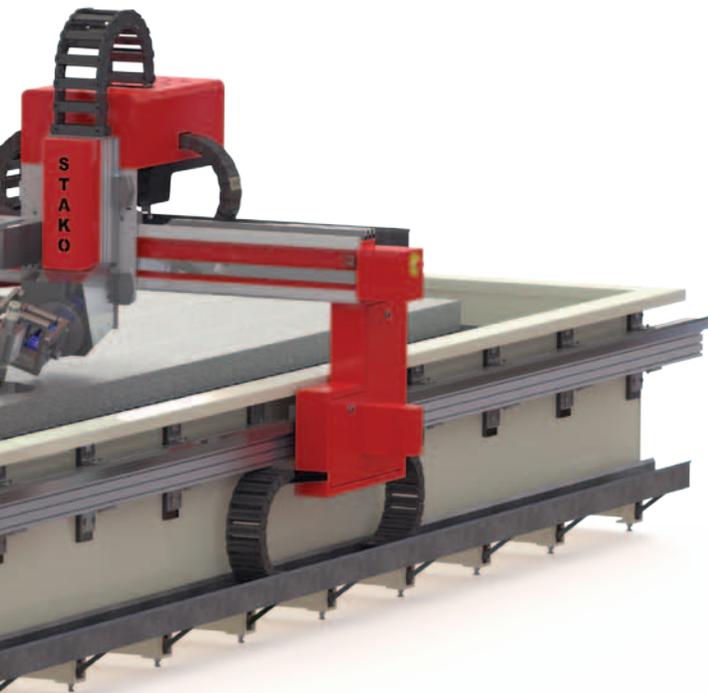
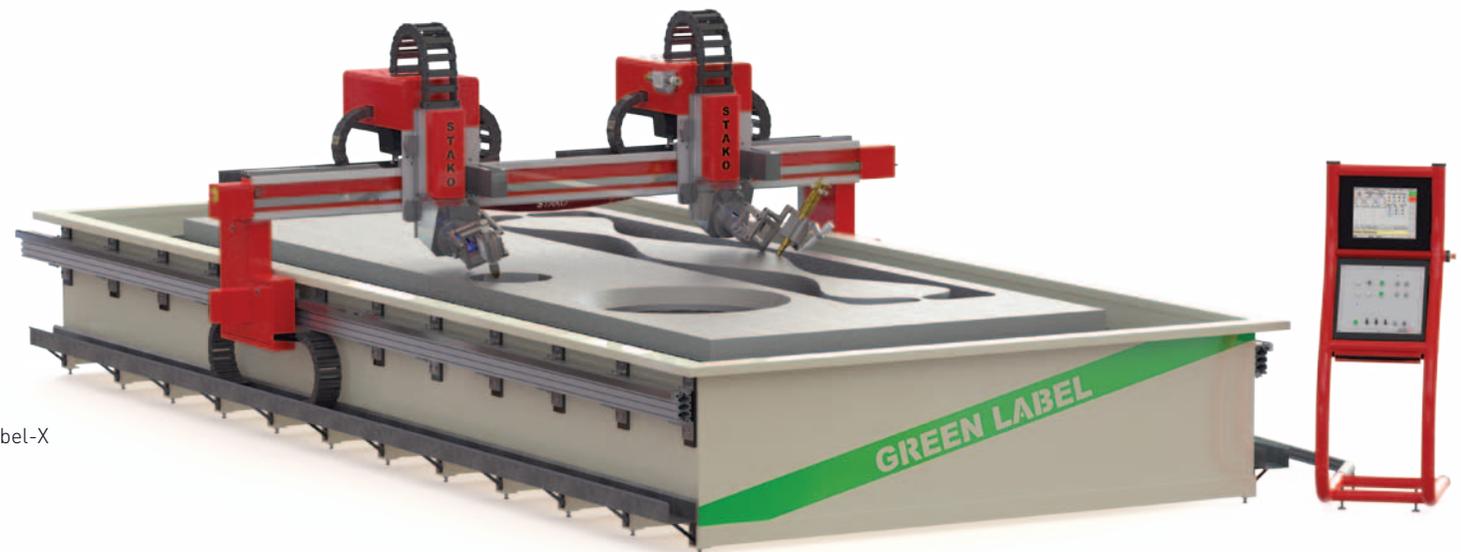
All modern needs like environmentally friendly, economic results in combination with optimal working conditions are fulfilled with this machine. The Novum guarantees a modern and well thought out investment!

### APPLICATIONS:

- ❑ Construction work
- ❑ Machine building
- ❑ Yacht and ship building
- ❑ Job cutting centres
- ❑ Steel production

### CHARACTERISTICS:

- ❑ Environmentally friendly and economic under water and above water cutting (green label)
- ❑ Suitable for plasma and oxy fuel cutting
- ❑ Versatile by the use of combined cutting processes
- ❑ Water table
- ❑ 3D cutting techniques. Pantograph, Nobel-X
- ❑ Controlled by AC-servo motors
- ❑ High accuracy
- ❑ Solid machine with integrated track
- ❑ Operator friendly by using touch screen CNC controller
- ❑ Several process options: Marking, Drilling, Tapping
- ❑ Stand-alone operation



# MAGNUM\_

## THE SOLID MASTERPIECE OF STAKO

THE MAGNUM IS OUR POWERHOUSE. THIS ROBUST STAKO MACHINE IS MADE FOR EVERY HEAVY DUTY CUTTING JOB AND OPERATES IN THE MOST DEMANDING INDUSTRIES.

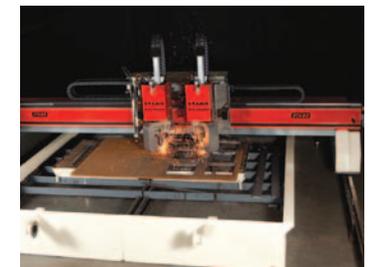
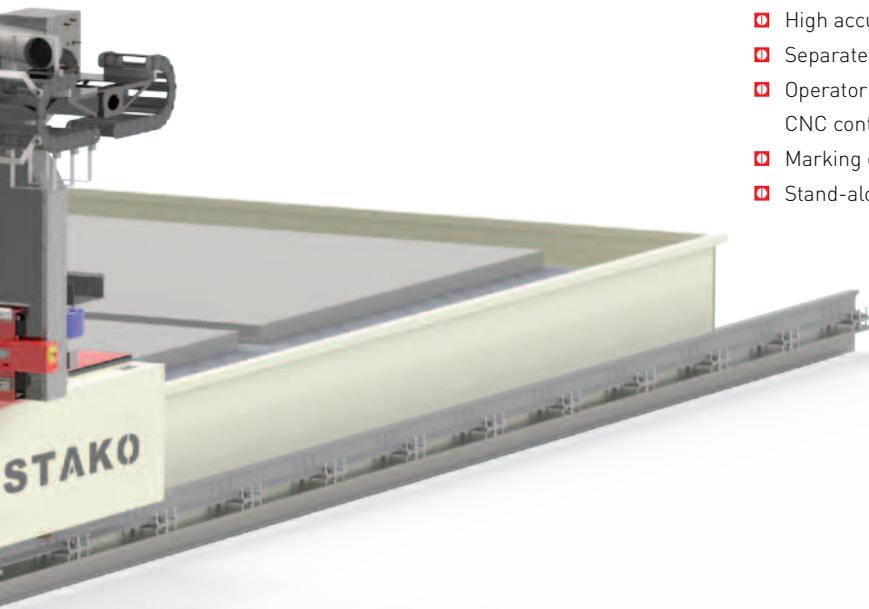
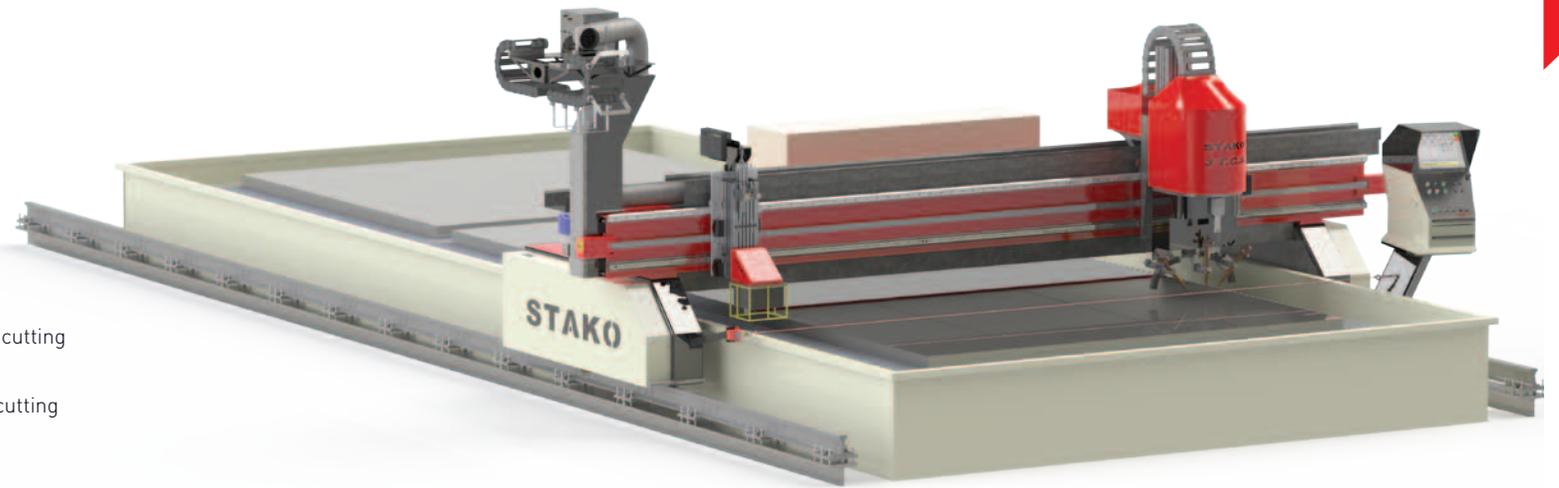
This multi combination machine with several cutting heads at the same time, 3D if requested, confirms that the Magnum is The machine for heavy industries.

### APPLICATIONS:

- ❑ Construction work
- ❑ Steel production
- ❑ Yacht and ship building
- ❑ Job cutting centres
- ❑ Windmill production

### CHARACTERISTICS:

- ❑ Robust construction, suitable for heavy duty jobs
- ❑ Suited for plasma and/or oxy fuel cutting (piece until 150 mm)
- ❑ Versatile by the use of combined cutting processes
- ❑ Dry cutting table or Water table
- ❑ Common use of 3D cutting techniques
- ❑ Controlled by AC-servo motors
- ❑ High accuracy
- ❑ Separated track
- ❑ Operator friendly by using touch screen CNC controller
- ❑ Marking options
- ❑ Stand-alone operation



# SIGNUM\_

## SIMPLY BETTER THAN THE REST

THE SIGNUM IS EQUIPPED WITH HIGH QUALITY GUIDE-RAIL IN BOTH X AND Y AXES AND OFFERS A GREAT SOLUTION FOR FAST AND WIDE MACHINE BUILDS. STAKO DELIVERS THIS MACHINE OFTEN WITH SEVERAL CUTTING HEADS AND IS SUITABLE FOR PLASMA AS WELL FIBERLASER CUTTING.

Using his very accurate V-guiding rails mounted on a strong aluminium profile the Signum offers maximum results during all travel speeds and every material.

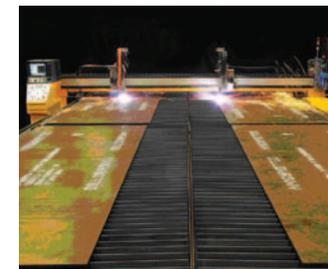
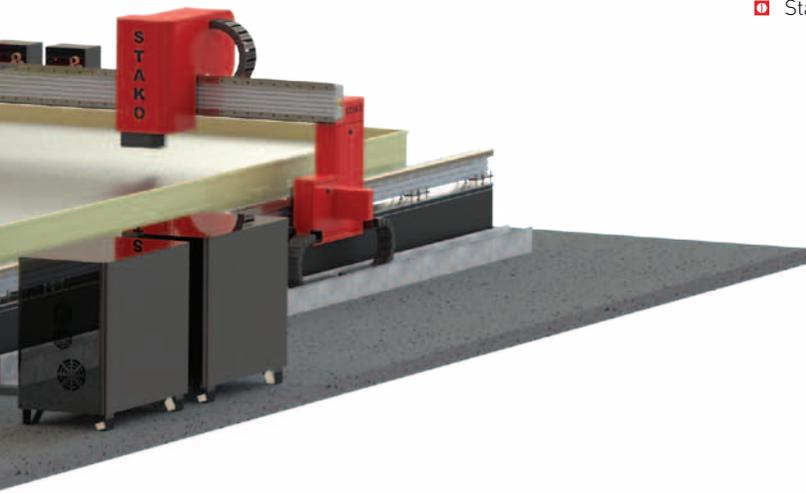
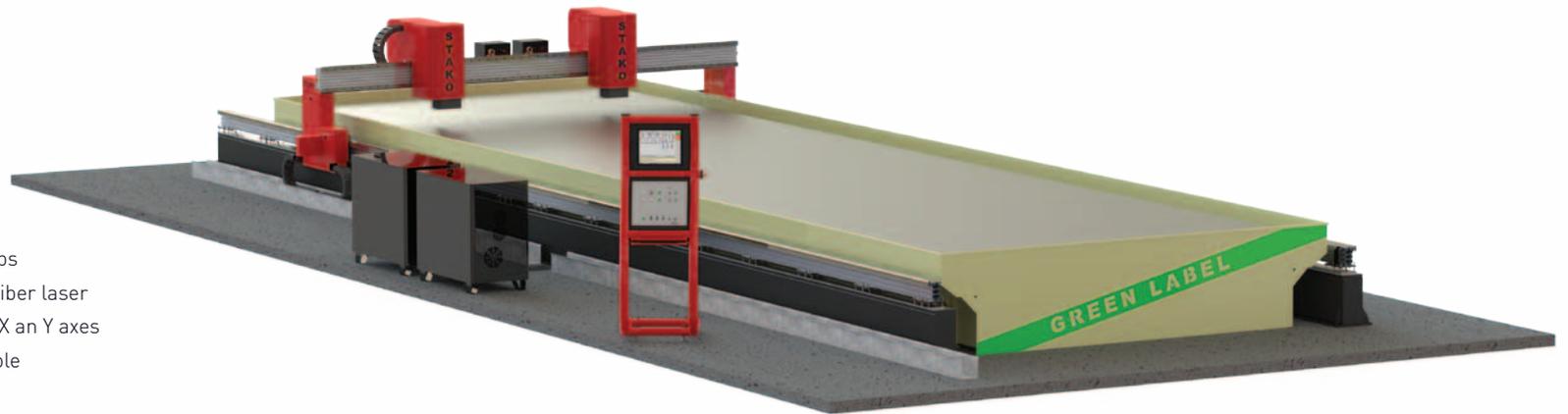
The modern techniques, light weight bridge (even at width up to 4500 mm) and accurate guiding rails makes the Signum simply better than the rest.

### APPLICATIONS:

- ❑ Construction work
- ❑ Machine building
- ❑ Yacht and ship building
- ❑ Job cutting centres
- ❑ Steel production

### CHARACTERISTICS:

- ❑ Robust construction, suitable for heavy duty jobs
- ❑ Suitable for plasma and fiber laser
- ❑ Accurate guiding rails in X and Y axes
- ❑ Dry cutting and Water table
- ❑ 3D cutting techniques
- ❑ Controlled by AC-servo motors
- ❑ High accuracy
- ❑ Solid machine with separated track
- ❑ Operator friendly by using touch screen CNC controller
- ❑ Several process options
- ❑ Stand-alone operation



## DRY CUTTING TABLE\_ INNOVATIVE AND DURABLE

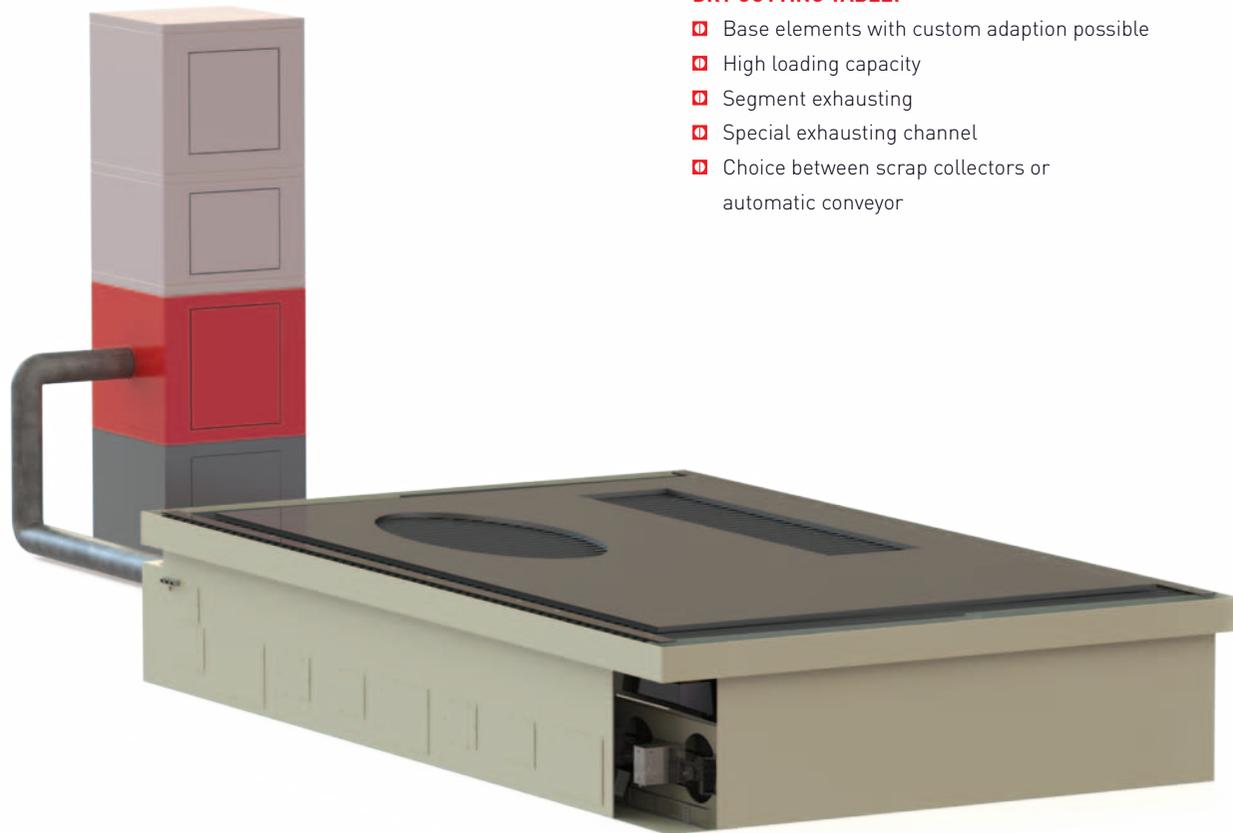
IN ACCORDANCE TO YOUR CUTTING NEEDS AND TYPE OF MACHINE, STAKO CAN OFFER YOU TWO KINDS OF CUTTING TABLES. IMPORTANT FACTORS TO TAKE INTO CONSIDERATION WHILE MAKING THIS DECISION ARE OPTIMAL WORKING CONDITIONS, ENVIRONMENTAL COMPATIBILITY AND OBTAINING HIGH QUALITY END PRODUCTS.

It doesn't matter if we're talking about a custom made table or about a standard cutting table, our tables will always be suitable for the most challenging jobs.

You can choose between:

### DRY CUTTING TABLE:

- ❑ Base elements with custom adaption possible
- ❑ High loading capacity
- ❑ Segment exhausting
- ❑ Special exhausting channel
- ❑ Choice between scrap collectors or automatic conveyor



## WATER TABLE\_ INNOVATIVE AND DURABLE

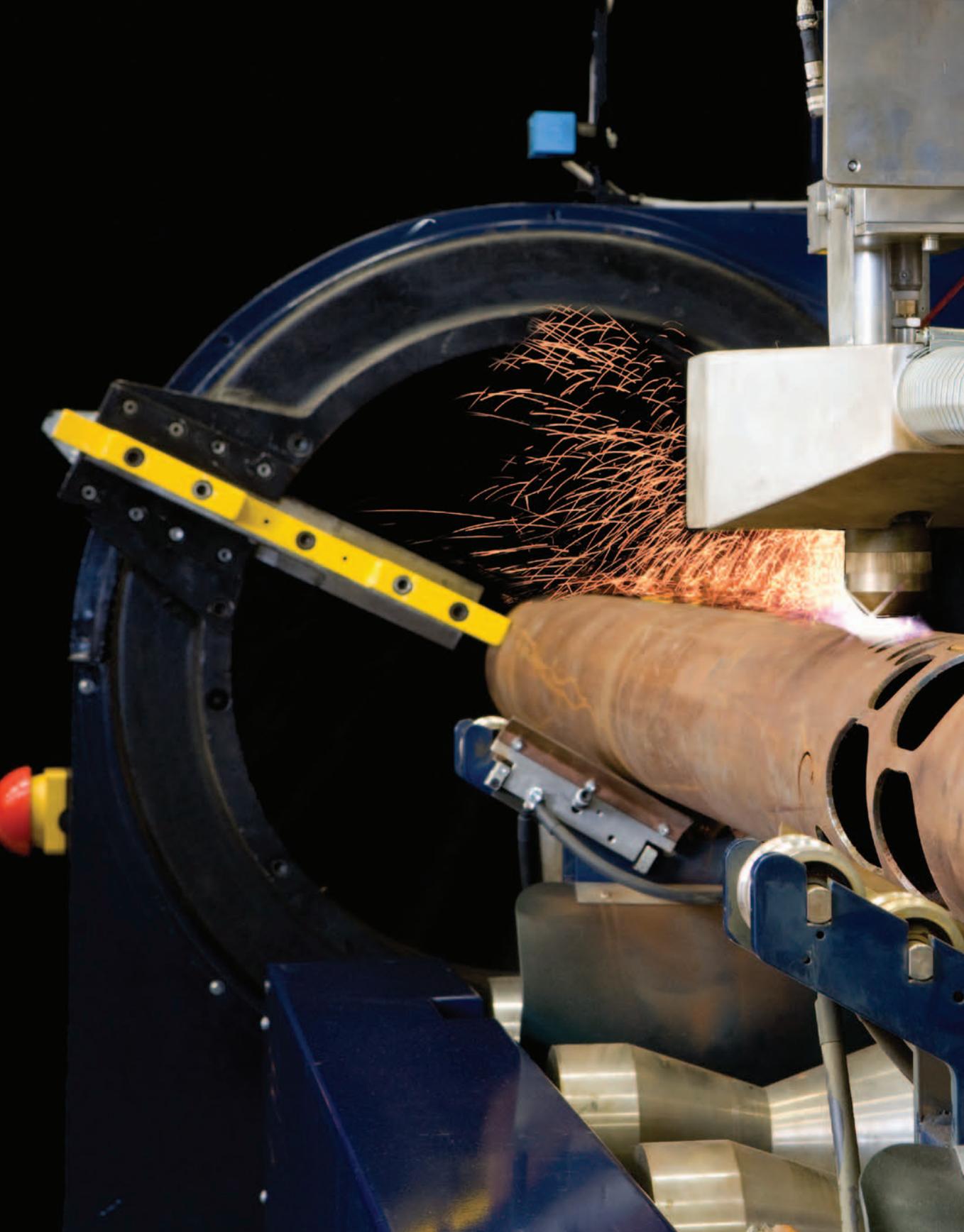
### GREEN LABEL WATER TABLE

#### FIRE AND WATER CAN GO TOGETHER!

- ❑ Binding of dust out of smoke gasses thru the water
- ❑ Noise reduction up to 80%
- ❑ Fast water levelling, irrespective of the table's volume
- ❑ Easy cleaning possibilities
- ❑ No extra risk for oxidation. The water becomes oxygen free because of the cutting process
- ❑ Low investment because the exhausting system is not necessary anymore
- ❑ Less risk for damaging materials by using removable, angle mounted strips

- ❑ The greatest result we have achieved is besides a positive affect on the environment, we have also achieved an effect on the quality of the cut.
- ❑ By cutting under water, the cut is directly cooled down. This result is an increased accuracy (less risk for deforming) and materials like Harox keep their original characteristics because of less temperature changes. Even other processes like drilling become easier to realise because the materials are less hardened.





## PIPE AND PROFILE CUTTING MACHINES\_

**PIPE AND PROFILE CUTTING MACHINES HAVE ALWAYS BEEN AN IMPORTANT PART OF STAKO'S HISTORY. ACROSS THE YEARS, THE MARKET HAS SHOWN MANY DEVELOPMENTS, IN WHICH STAKO PROUDLY PIONEERED. OUR PRODUCT RANGE OF CUTTING MACHINES IS VERY DIVERSE. WE OFFER, FOR EXAMPLE, THE COMPACT MOBILE ARB1500D AND THE VARIPROFILE.**

The Variprofile is an absolute scoop in the 3D world of cutting. Our company is the first on the market that offers a cutting machine for pipe, profile and even plates! We have received much positive feedback about these developments. Companies now have the possibility to automate all their activities with the investment in only one machine!

Still cutting centric and eccentric holes by hand? Please let us advise you about the ARB1500/2500D. This mobile cutting machine can do this job for you, just enter in the Siemens panel your parameters and off you go. No CNC program is needed.

As you can expect from a manufacturer as Stako, all our machines are equipped with high quality and modern techniques. In our opinion, this is a key condition to guarantee the requested cut quality in combination with a long service life. Together with modern techniques like automatic pipe supports, the user-friendliness for the operator has also been improved. Touchscreen CNC controller and standard shapes are just small steps in making life easier for the operator.

The pipe cutting machines in our showroom are ready for a demonstration.

Please challenge us with your complex cutting wishes and we will convince you of our all-round machines!

# ARB 1500D / 2500D\_

## THE WELL THOUGHT SOLUTION

FOR CENTRIC/ECCENTRIC HOLES, SHORTENING AND CONNECTION CUTS IN PIPE PROFILES, STAKO HAS DEVELOPED THE ARB.

The compact design of the ARB makes it suitable for mobile use, ideal for fulfilling jobs on field locations. The Siemens controller avoids human mistakes and saves a lot of time concerning pre- and after treatment of materials.

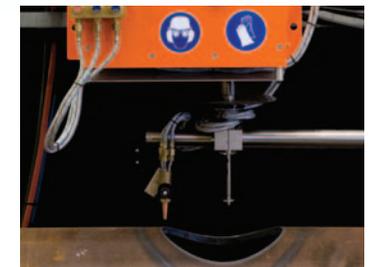
The ARB is suitable for oxygen and plasma cutting.

### APPLICATIONS:

- ❑ Offshore related activities
- ❑ Construction work
- ❑ Tank- / pressure vessel production
- ❑ Piping

### CHARACTERISTICS:

- ❑ Automatic contour cutting
- ❑ Mobile use, cutting on site
- ❑ Welding sides preparation
- ❑ Time savings in pre- and after treatments
- ❑ Suited for plasma cutting
- ❑ Suited for oxy fuel cutting



# VARIPIPER\_

## FOR THE ONE WHO THINKS AHEAD

THE VARIPIPER HAS PROVEN HIS QUALITY WORLDWIDE. FOR MANY YEARS WE HAVE CONTINUOUSLY DEVELOPED THE VARIPIPER TO BECOME THE OPTIMAL 3D CUTTING SOLUTION FOR PIPE PROFILES.

By using high quality components like a self centring clamping unit, track, torch carrier, hydraulic pipe supports and a touchscreen CNC controller, the Varipiper offers the highest productivity and production reliability.

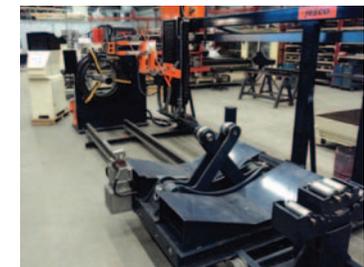
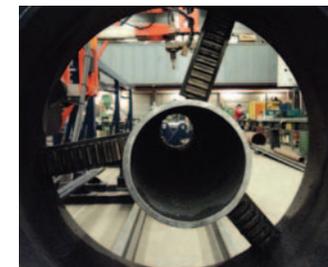
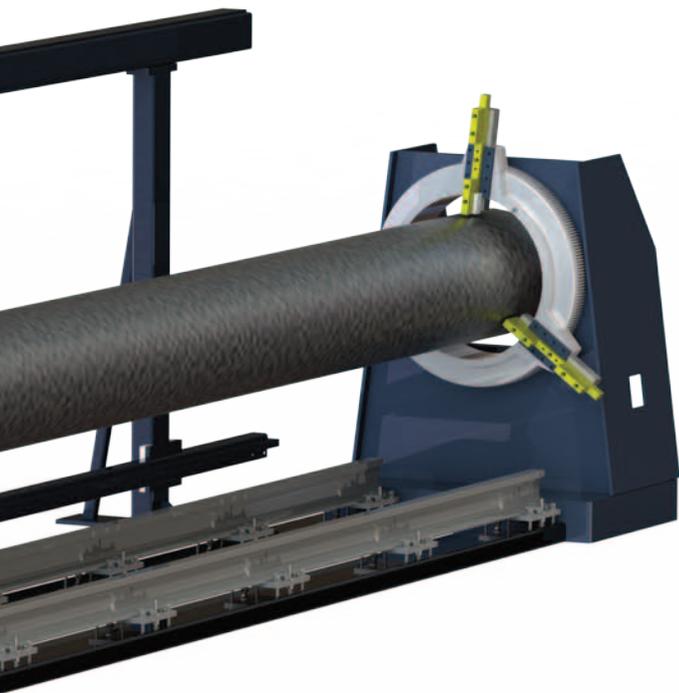
Operator friendliness, reliability, efficiency and a high quality end product are simply guaranteed by years of experience.

### APPLICATIONS:

- ❑ Offshore industry, platform development
- ❑ Shipyards
- ❑ Tank and kettle production
- ❑ Piping
- ❑ Crane and bridge building

### CHARACTERISTICS:

- ❑ 3D pipe cutting
- ❑ Standard working length 3000 mm
- ❑ High efficiency using extended frame
- ❑ 3D CNC controller (12 programmable axis) with standard fast programming shapes
- ❑ Completely finalized products (welding edges, connections and pipe ends)
- ❑ Suited for plasma cutting
- ❑ Suited for oxy fuel cutting



# VARIANT VARIPIPER\_ THE BENCHMARK IN HIS CLASS

HIGH PRODUCTIVITY, EFFECTIVE CUTTING AND AUTOMATED TRANSPORT OF PIPES AND PROFILES, THESE ARE THE KEY POINTS OF THE VARIANT VARIPIPER. THE FINALIZED PRODUCT IS IMMEDIATELY READY FOR THE NEXT STEP IN THE PRODUCTION PROCESS, WHICH CAN BE CONNECTED TO THE SAME CONVEYOR.

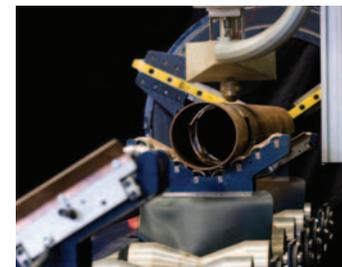
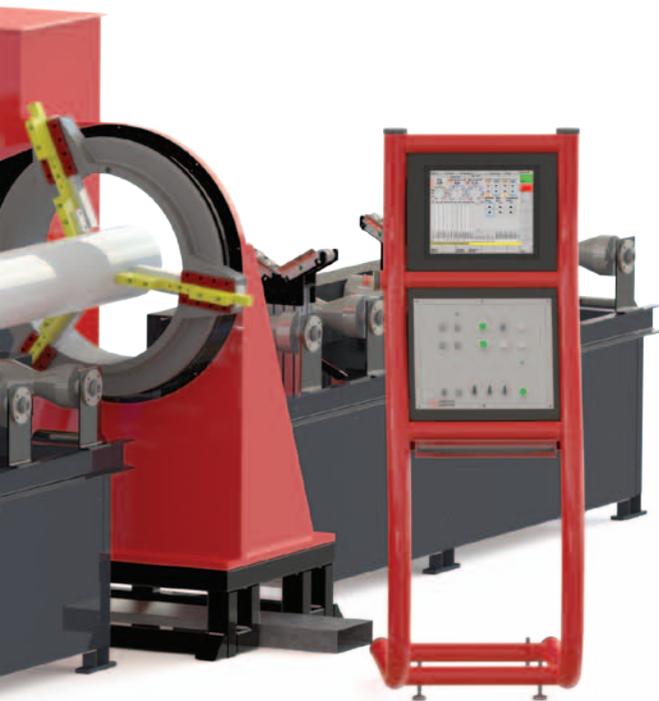
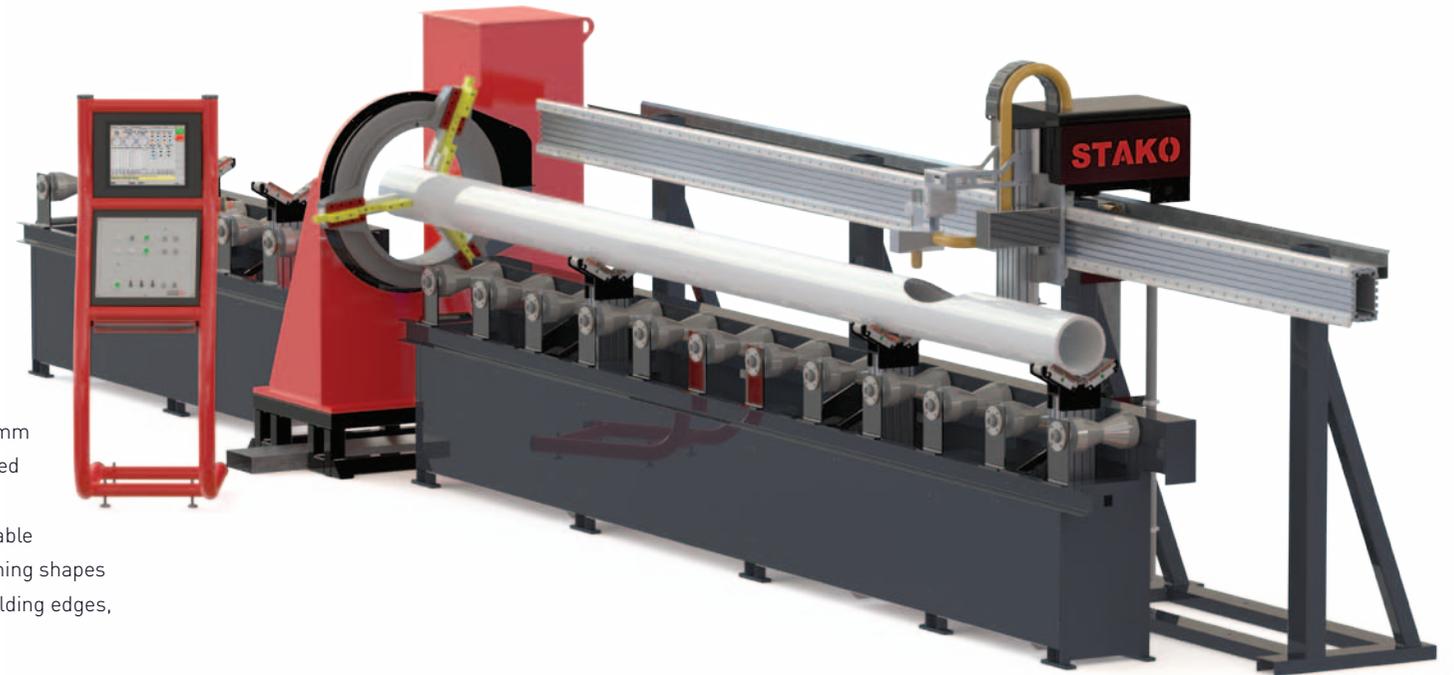
The Variant Varipiper is suitable for cutting pipe connections and 3D shapes, controlled through a 2D or 3D CadCam connection.

## APPLICATIONS:

- ❑ Offshore industry, platform development
- ❑ Construction work
- ❑ Tank and kettle production
- ❑ Piping
- ❑ Streetlight manufacturing

## CHARACTERISTICS:

- ❑ 3D pipe and profile cutting
- ❑ Standard movement length 3000 mm
- ❑ High efficiency due to an automated conveyor system
- ❑ 3D CNC controller (12 programmable axis) with standard fast programming shapes
- ❑ Completely finalized products (welding edges, connections and pipe ends)
- ❑ Suited for plasma cutting
- ❑ Suited for oxy fuel cutting



# VARIPROFILE\_

## THE ICON OF DEVELOPMENT

THE VARIPROFILE IS AN UNIQUE MACHINE WHICH BRINGS STAKO TO A HIGHER LEVEL. THE 3D CNC CONTROLLER MAKES IT POSSIBLE TO CUT ALMOST EVERY IMAGINABLE CUTTING SHAPE IN PIPE, BEAMS, PROFILE AND EVEN PLATES!



No other competitor offers cutting possibilities in this many materials and profiles. The Variprofile is a great example in how Stako advises his customers concerning the most efficient production process.

### APPLICATIONS:

- ❑ Offshore related, platform development
- ❑ Construction work
- ❑ Tank and kettle production
- ❑ Piping
- ❑ Windmill production

### CHARACTERISTICS:

- ❑ Cutting capacities for all kinds of materials (plate, pipe, profile and beams)
- ❑ Standard movement length 3000 mm
- ❑ High efficiency by fast exchange in multifunctional use
- ❑ 3D CNC controller (12 programmable axis) with standard fast programming shapes
- ❑ Completely finalized products (welding edges, connections and pipe ends)
- ❑ Suitable for plasma cutting
- ❑ Suitable for oxy fuel cutting





## SPECIAL ENGINEERING\_

**YOUR WISH IS OUR MACHINE! WITH OUR DIVERSE AND SPECIALIZED MACHINES STAKO HAS DISTINGUISHED HERSELF FROM OTHER SUPPLIERS IN THE MARKET. THIS HAS MADE STAKO ONE OF THE LEADERS IN CONSTRUCTING "SPECIAL CNC CUTTING MACHINES" WORLD-WIDE.**

The machines shown in this brochure are just the tip of the iceberg concerning our products. Stako has specialised itself as a builder of custom tailored machines. Taking our machines to the next level or developing an entirely new product, completely suited to your needs.

Combine water jet with plasma; water jet with milling; a decoiler with fiberlaser printing and even more. Automation in the plate supply, disposal and handling system allows you to drop labour costs and push boundaries. Give us your specifications and be amazed!

Examples of Stako Special Engineering:

- ❑ An economic water jet/plasma cutting machine
- ❑ Dry aluminium milling with an automated load and unload system
- ❑ A fully isolated Magnum cutting machine equipped with automatic positioning water cutting tables
- ❑ A double extra wide Magnum machine that can cut 1000 mm raw steel in a steel rolling plant
- ❑ A Magnum XL with double Roto oxy fuel burner carrier equipped digital height control with a measurement accuracy of 0,01 mm
- ❑ A fully automatic pipe and profile cutting system
- ❑ A CNC controlled laser-cutting combination machine (laser welding and cutting) guided by camera's
- ❑ Specialized 2D and 3D- cutting through our different types of torch lifters..

# EXAMPLE OF STAKO SPECIAL ENGINEERING\_

## ASSIGNMENT:

- ❑ Develop a production line for the decoiling, straightening, laser cutting of plate and labelling and unloading of finished products.

## CHALLENGE:

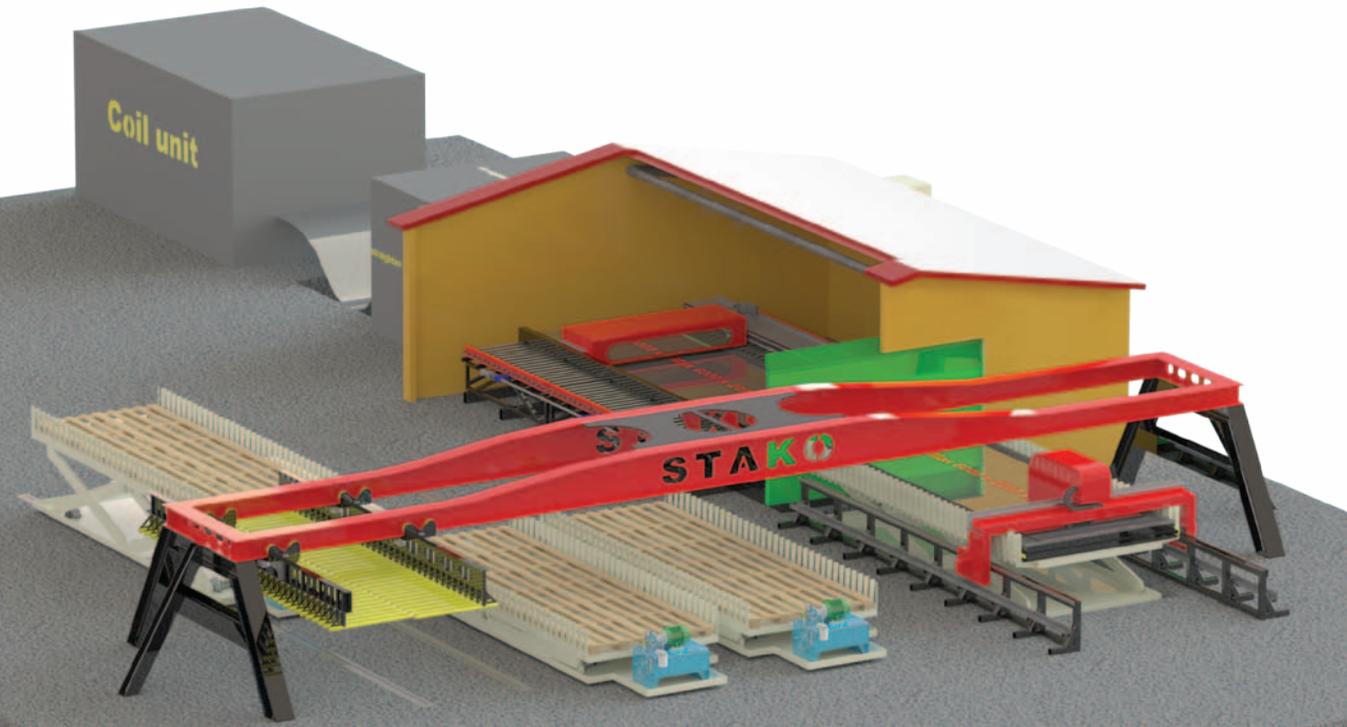
- ❑ Create production speed through atomisation.

## RESULT:

- ❑ Simplicity, efficiency and innovation.

## OUR SOLUTION:

- ❑ The plate will be decoiled, straightened and cut. After this the plate will be transported in the correct length underneath the fiberlaser machine. The products will be cut by the fiber laser and when done, automatically transported to the high speed label machine. After labelling, the finished products and waste material can be unloaded to 3 possible locations.



# EXAMPLE OF STAKO SPECIAL ENGINEERING\_

## ASSIGNMENT:

- ❑ Cut weld preparations on edged steel plates for the pipe industry.

## CHALLENGE:

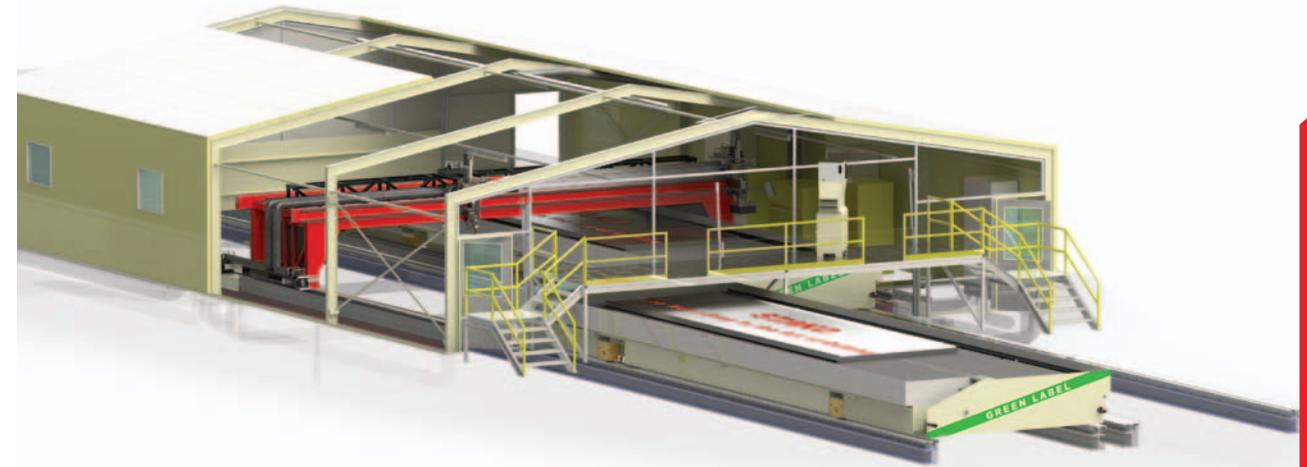
- ❑ Create production speed through automation.

## RESULT:

- ❑ Quality, simplicity and success.

## OUR SOLUTION:

- ❑ The square edged plate is positioned with the help of an operator on one of the two water tables. The 80-tons water table moves underneath the machine. After the table is in its position the plasma torch will cut weld preparations on the edged side of the plate. The water tables can move synchronously (suited for 8000 mm wide plates) as well as separate in or out of its cabin. The cabin is provided with an integrated ventilation system.



# EXAMPLE OF STAKO SPECIAL ENGINEERING\_

## ASSIGNMENT:

- ❑ High speed dry aluminium milling, inkjet printing and automatic loading and unloading of plates and finished products.

## CHALLENGE:

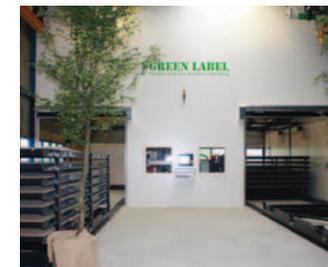
- ❑ Create production speed though automation.

## RESULT:

- ❑ Stability, assurance and reliability.

## OUR SOLUTION:

- ❑ The aluminium plates are placed in racks on a mobile frame. Multiple racks are transported into the cabin of the milling unit. A CNC controlled crane lifts one frame and positions it on the table of the milling machine on which the products will be milled. When finished, the crane automatically takes the frame from the machine and transports it to the other side of the milling cabin. This process is repeated until all plates are milled. These finished products are then transported out of the cabin as in the same time on the other side of the machine already a new rack with plates is waiting for processing.





## EQUIPMENT / TOOLS\_

ONE OF OUR STRONGEST POINTS IS THAT THE MANUFACTURING OF THE MACHINE TAKES PLACE INSIDE THE ORGANISATION. FROM DESIGN TO ASSEMBLY, IT ALL LIES IN OUR OWN HANDS! THIS MEANS THAT OUR SUPPLY CHAIN IS SHORT AND OUR MACHINES CAN BE CUSTOMIZED AND EQUIPPED WITH UNIQUE COMPONENTS AND DISTINCTIVE TECHNOLOGIES. EXAMPLES REACH FROM SPECIAL DESIGNED CUTTING TORCHES AND CUT OPTIMIZATION TO OUR VERY USER FRIENDLY CAD CAM SOFTWARE. FURTHERMORE, STAKO USES HIGH-QUALITY MATERIALS TO ENSURE A HIGH DEGREE OF ACCURACY AND HIGH CUTTING SPEEDS.

When a machine is assembled, thoroughly tested and delivered, the result is an exceptional CNC cutting machine equipped with unique technologies that distinguishes not only us but also our customers from competitors.

On the following pages you will find an overview of our new equipment & tools.

## REVISION & RETROFIT\_

Beside new cutting machines, Stako also offers the option of retrofitting a machine to your wishes and specifications.

A lot is possible when converting or retrofitting a machine to your specific needs. Is your software out of date? Would you like to change from oxy fuel to plasma cutting? We can alter

or retrofit your machine with the latest technology so you can stay competitive.

Send us an email at [info@stako.nl](mailto:info@stako.nl) for further information.

## HOLE CUTTING OPTIMIZATION\_

Different machines means different optimization options. Stako has made cutting holes into an artform. We combine the best in the market to make cutting holes a seamless part

of the finished product. Contact us for the possibilities of the Quickcut: the complete solution for cutting both normal and countersink holes.



## MARKING OPTIONS\_

Marking different materials or products with serial numbers, product numbers or make and model specifications is made easy when it is part of the production process. Stako offers a range of engraving, inkjet printing, plasma marking or even sticker labelling options for your machine.

### CHARACTERISTICS:

- Automated to fit your production processes
- Made easy and controlled through the CNC-program

## SOFTWARE: STAKONEST\_

In order to operate your CNC cutting machine, we make use of CAD CAM Software called StakoNest. This is specially designed software optimize your cutting process. Stakonest is a very versatile program that is operational in both 2D and 3D which makes it applicable for every cutting process.

### CHARACTERISTICS:

- Import options for DXF-/ DWG files with automated error analysis (for example double lines)
- Standard shapes library with 50 parametric shapes

- Simple drawing module for adjusting or starting a new drawing
- Possibility to save your own settings regarding the lead- in and lead- out of your cut for different dimensions and materials
- Automatic nesting in grid format
- Contour nesting of different shapes
- Automatic simulation and time calculation
- Saving and revising NC- programs

## LATERAL TANGENTIAL THREE BURNER TORCH LIFTER\_

This special feature makes it possible to cut, next to a straight cut, also cut welding edge preparations like V-, Y- and K- cuts.

### CHARACTERISTICS:

- 6 AC- servomotors
- Possible cut length up to 200 mm!
- Multiple types of weld possible and automatically adjustable, such as the K- V- or Y- cut
- 3-burner with automatic angle adjustment where the middle burner is limited to an automatic angle adjustment of +/- 10 degrees and the other torches up to an angle of 60 degrees
- Automatic lateral adjustment of 2 burners with a range of approximately 130 mm adjustable from the center
- Completely automatic gas console



# PANTOGRAPH BEVEL UNIT\_

STAKO HAS SEAMLESSLY COMBINED A MULTIPLE AXIS CUTTING UNIT WITH THE RIGHT SOFTWARE TO DIFFERENTIATE ITSELF FROM OTHER BEVEL CUTTING UNITS. THE CUTTING QUALITY WITH BEVELLING IS MAINLY A COMBINATION BETWEEN ARC VOLTAGE, CUTTING SPEED AND CUTTING HEIGHT.

Stako has developed special software for this and integrated it so that the parameters can be automatically adjusted. This means that there are no speed or voltage adjustments (on changing geometries of the cutting part) that need to be programmed in the cutting file.

Additionally, the software enables the operator to easily make an optimization without, for example the need to make a new CNC file.

## ADVANTAGES OF THE PANTOGRAPH:

- ❑ The pantograph rotates around its own axis/ center point! The biggest advantage with bevel cutting. As a result, multi-axis correction during changing the angle is not necessary and because of this no height adjustments are necessary!
- ❑ Stako's specialized height adjustment control enables you to measure arc voltage, even when performing dynamically varying cuts. Even then, virtually dross-free cuts are possible.

## SPECIFIC FEATURES OF STAKO'S BEVEL UNIT:

- ❑ Repeated accuracy regardless of the experience of the operator and very user-friendly
- ❑ The first height will be determined through contact or sensor measurement (this makes it easy to detect thin or thick material)
- ❑ Protection of the wear parts through the special torch-up function while piercing thick materials
- ❑ Height adjustment is active even when cutting dynamically

