

Foam cutting machines and spare parts





→ sitola cut technologies	03
→ Cutting tools and spare parts	05
sitola SVC-A	05
sitola SCC-W	07
→ Cutting tools and spare parts	09
Band knives	09
CNC contour cutting band knives	
Horizontal cutting band knives	
Vertical cutting band knives	
Cutting wires	15
Grinding tools	17
Running wheels	19
Knife turning	21
Controller, motors and inverters	23
Spare parts cutting head	
→ Retrofit	27
Machine upgrades	29
CNC contour cutting machines	
Vertical cutting machines	
Horizontal cutting machines	
Service and maintenance	39
Machine relocation	41
→ 2nd Use	43
Used foam cutting machines	45

Why should you work with sitola?

The Company

sitola cut technologies is a German company with more than 20 years experience in developing, producing and distributing high quality products and service for foam cutting machines, such as Albrecht Baumer or Fecken-Kirfel.

We produce precision blades and wires for CNC cutting, splitting and trimming machines as well as cutting wires for special foam cutting applications. Also, we provide a large variety of spare parts, like grinding stones, diamond tips, pulley wheels, tension wires etc..

sitola also offers new foam cutting machines as well as the purchasing and selling of used foam cutting machines and professional machine service for reliable cutting machines.

As the controls on older machines become obsolete and can no longer be supported by the OEM, we retrofit these machines with new electronic control systems and new motors in order to give your equipment a second life, at a fraction of the cost for a new machine.

Because of the fact that we have been working in accordance with the international standards of an effective quality management for a long time, well-known and renowned companies from all over the world have been relying on the excellent quality by sitola for years.

Over the years we have been developing our commitment at home as well as abroad so that the export share amounts to 85 percent of the total turnover.

This is not least due to our strategically situated international sales offices which attend to our customers.

Highest quality standards MADE IN GERMANY

We produce cutting tools and all kind of machine parts. All products are made of high-quality materials. After all, our customers expect an excellent quality and a first class product performance.

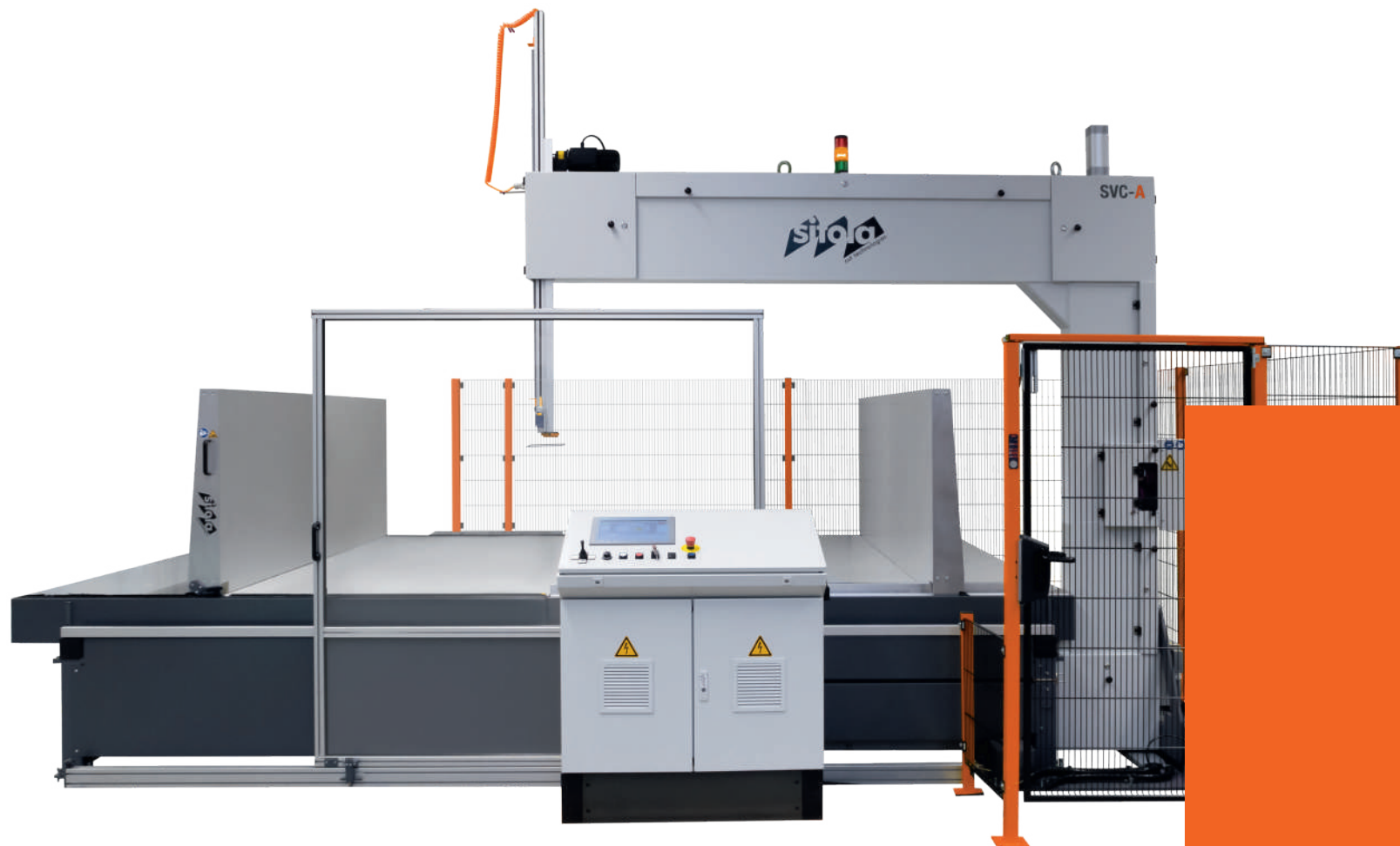
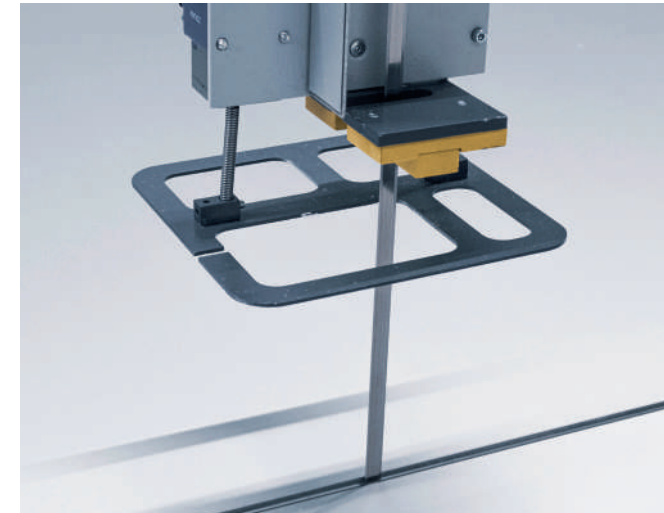
Some of the industries we supply are the industry of foam manufacturers, upholstery manufacturers, mattresses manufacturers, automotive suppliers, packaging producers, household products, technical industrial products or insulation material processing.



Automatic vertical cutting machine sitola SVC-A

This affordable, fully automatic vertical cutting machine „Made in Germany“ works with a rotating serrated or smooth band knife and guarantees precise cutting for the highest quality demands. Materials to be cut are e.g. flexible PU foam, polyethylene, composite

foam and viscose foam. The machine is mainly used for trimming and dividing PU foam blocks and PU sheet goods in the upholstered furniture industry, mattress production and the packaging industry.



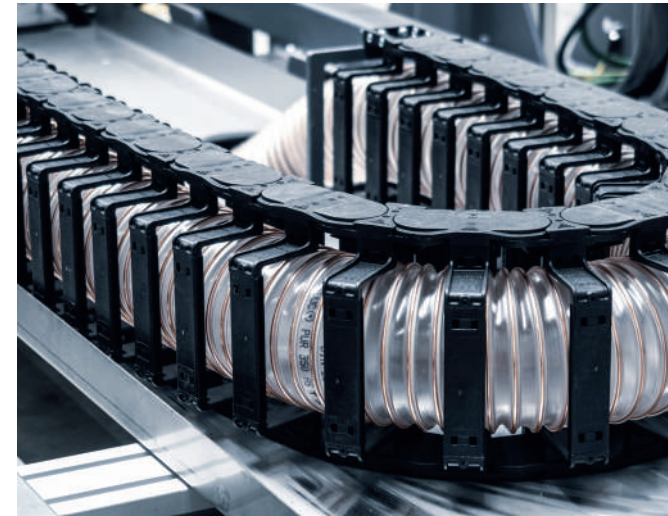
Advantages

- The machine has an extremely small footprint thanks to a stationary table and a movable cutting unit.
- Thanks to the motorized side stop, the block can be moved fully automatically for any desired cutting thickness.
- The heart of the control is a powerful Siemens S7-1500 PLC. The blocks are positioned and the cutting unit is moved using extremely precise Siemens servo drives.
- The user-interface has been designed for a fast familiarisation time and is friendly to use.
- Service costs are cut due to possible remote access maintenance.
- You can benefit from a guaranteed and economic spare parts supply.
- You may configure your machine optionally to your needs.

Automatic CNC contour cutting machine sitola SCC-W

The horizontal contour cutting machine with rotating cutting wire is used for cutting shapes and contours of harder materials such as PU flexible foam, PU rigid

foam, PU rebonded foam, extruded PS, phenolic resins, calcium silicates, mineral wool and foamglas.



Advantages

- The innovative wire cooling device cools the wire during the cutting process. This significantly rises the lifetime of the cutting wires.
- The control panel is a touch panel with a generously sized 17,3" TFT display.
- The user-interface has been designed for a fast familiarisation time and is friendly to use.
- The sitola CNC-control reads machine code of various providers. That means you can continue using your CAD programming software. Cutting programs G-CODE and SLD - programs can be used.
- Service costs are cut due to possible remote access maintenance.
- You can benefit from a guaranteed and economic spare parts supply.
- You may configure your machine optionally to your needs.

CNC contour cutting band knives.

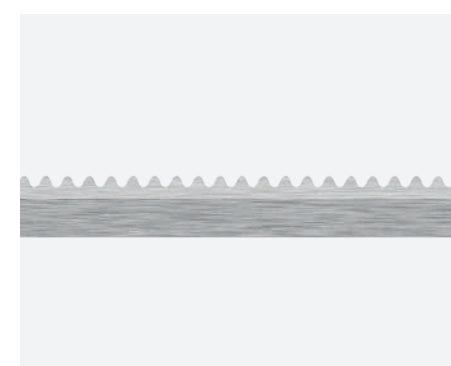
Our knife cuts the perfect contour

You profit from the absolutely precise band knives for your CNC contour cutting machine. That is thanks to digitised optical production control. Due to the innovative further development of our products and manufacturing machines you always receive the

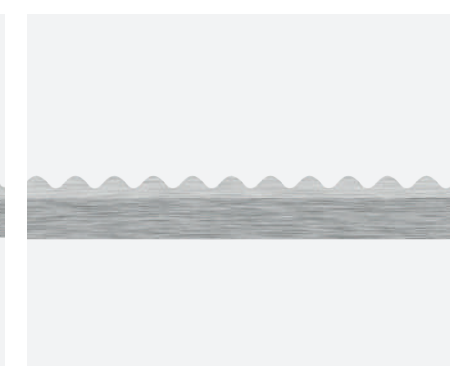
suitable design for your specific application. The CNC contour knives are available smooth and ground with two heels and also toothed in oscillating or circulating design.

Dimensions

- 3,0 x 0,45 mm
- 3,0 x 0,6 mm
- 3,6 x 0,6 mm
- 3,8 x 0,7 mm
- 4,5 x 0,8 mm
- (...)



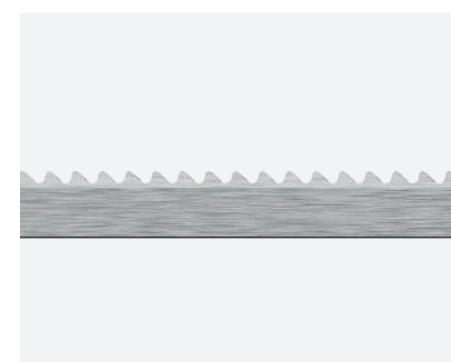
band knife, type 2.124



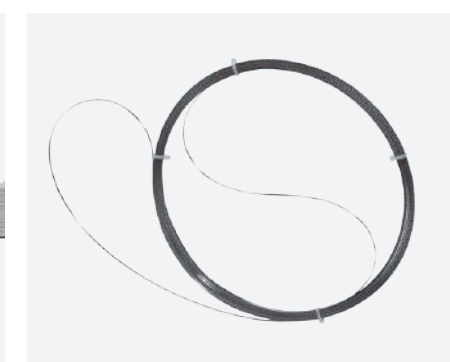
band knife, type 3.2



band knife, 2 heels



band knife - type 2.322



endless



oscillating

Advantages

- oscillating or endless
- toothed or flat with 2 heels
- HQ steel grades for maximum precision
- special welding process
- optical production control for perfect grinding
- production process for each blade is fully traceable

Best cutting results with sitola HQ band knives

For foam cutting machines of all standard manufacturers, you get ready-to-use ground circulating band knives in the dimensions of 30 x 0.45 mm to 100 x 1.2 mm. The design of the heels as well as the determination of the steel composition can be customised. A special surface treatment of the

splitting band knife guarantees the ideal application in the machine. And also a longer lifetime of the band knife compared to conventional products. In addition to that you achieve a higher dimension accuracy of the cut products.

Type standard



horizontal cutting - type standard

- standard steel grade
- pre-ground ready-to-use
- surface grinded
- special heel length on request
- short delivery times
- suitable for all kind of horizontal foam cutting machines

Type HQ



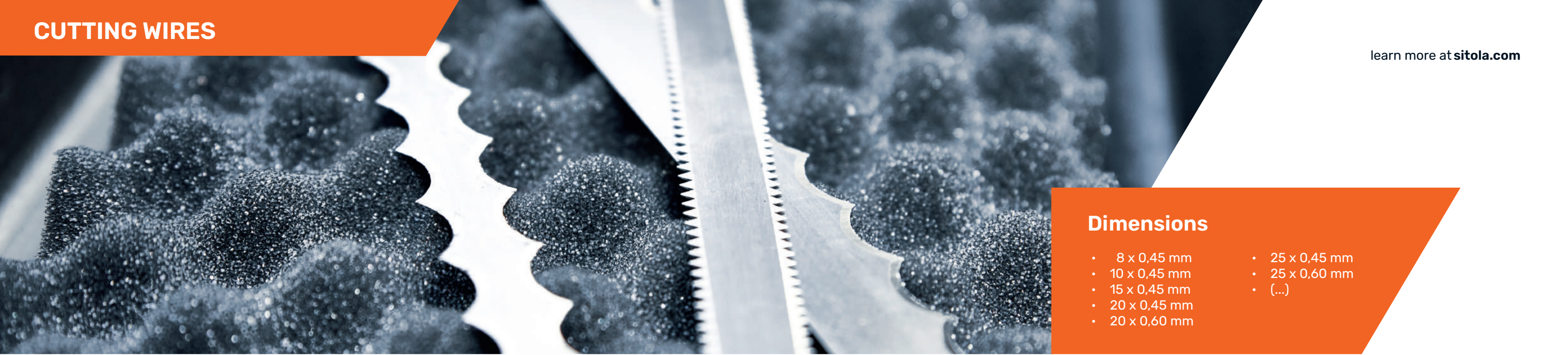
horizontal cutting - type HQ

- harder steel grade
- pre-ground ready-to-use
- surface grinded
- special welding process
- knife back rectified for 5/100 mm tolerance
- production process for each blade is fully

Horizontal cutting band knives

Dimensions

- | | |
|----------------|-----------------|
| • 30 x 0,45 mm | • 80 x 0,60 mm |
| • 40 x 0,45 mm | • 80 x 1,00 mm |
| • 50 x 0,50 mm | • 85 x 1,00 mm |
| • 60 x 0,60 mm | • 100 x 1,20 mm |
| • 60 x 1,00 mm | • (...) |



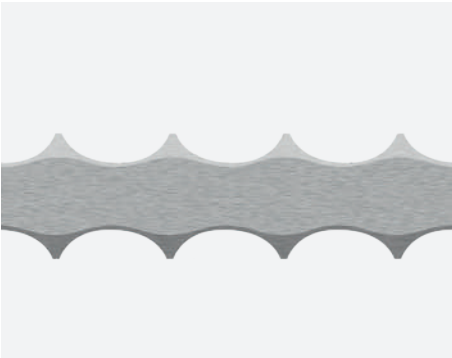
Dimensions

- 8 x 0,45 mm
- 10 x 0,45 mm
- 15 x 0,45 mm
- 20 x 0,45 mm
- 20 x 0,60 mm
- 25 x 0,45 mm
- 25 x 0,60 mm
- (...)

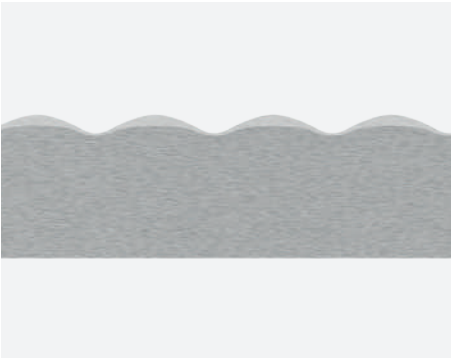
We hold a large range of band knives ready for you

For nearly all kind of cutting machines we have available a large number of band knives that we can adapt to your needs. Among these are different teeth available that you need to cut for different materials

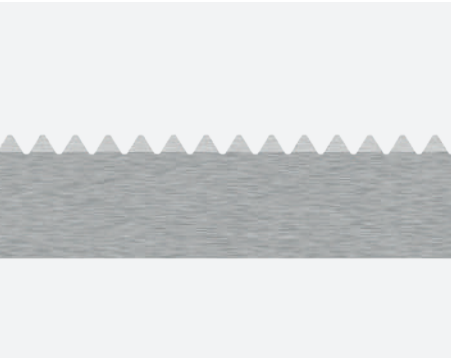
like PU flexible foam, PU rigid foam, PU rebonded foam, extruded PS, phenolic resins, calcium silicates, mineral wool and foamglas.



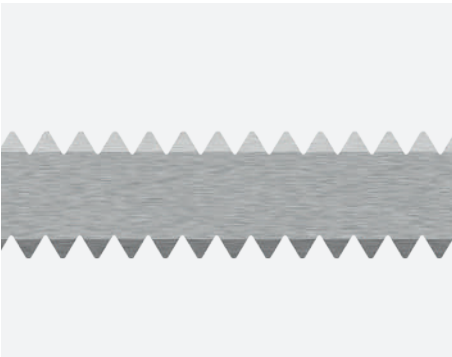
vertical cutting - toothed - concave



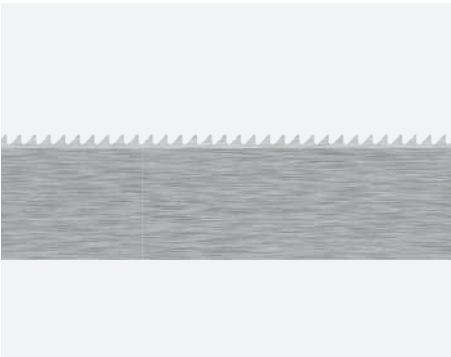
vertical cutting - toothed - convexe



vertical cutting - toothed - D2,5



vertical cutting - toothed - D2,5



vertical cutting - toothed - F1,75



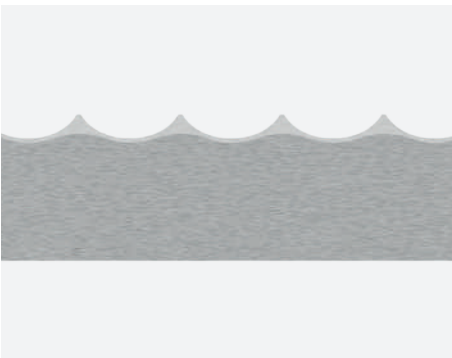
vertical cutting - toothed - F1,75



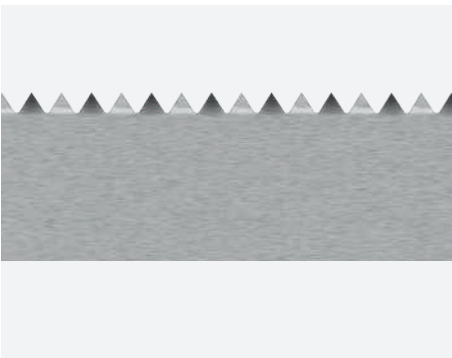
vertical cutting - ground - 2 heels



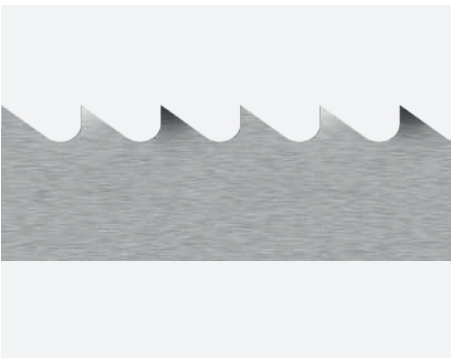
vertical cutting - ground - 4 heels



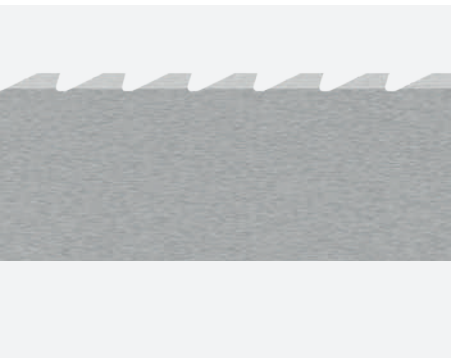
vertical cutting - toothed - concave



vertical cutting - toothed - set



vertical cutting - toothed - set



vertical cutting - toothed - special



Special wires for all kind of materials

We manufacture customised cutting wires for your individual applications. That is due to the use of different primary materials like carbon and tungsten and a special winding technology of the production machine. The cutting wires are used among others

for processing the following materials: PU flexible foam, PU rigid foam, PU rebonded foam, extruded PS, phenolic resins, calcium silicates, mineral wool and foamglas.



cutting wire - PU rigid foam



cutting wire - PU rebonded foam



cutting wire - phenolic resins



cutting wire - mineral wool



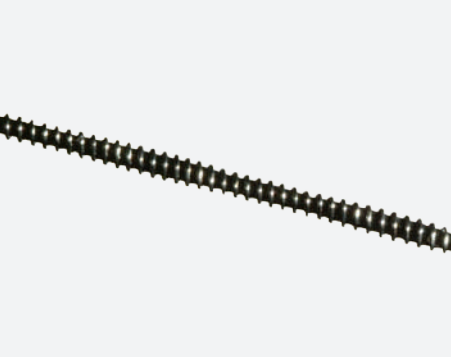
cutting wire - mineral wool



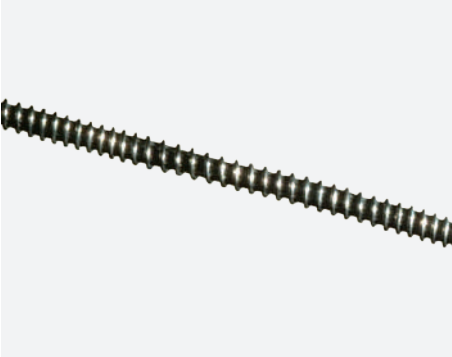
cutting wire - foamglas



cutting wire - PU flexible foam



cutting wire - PU flexible foam



cutting wire - PU rigid foam



cutting wire - extruded PS



cutting wire - extruded PS



cutting wire - calcium silicates

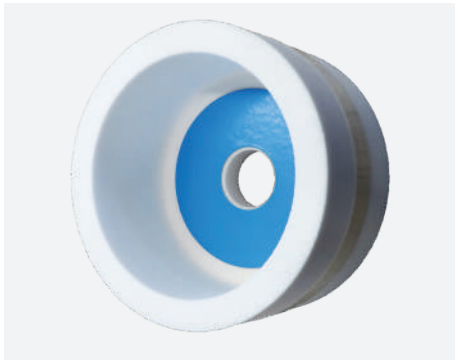
The best cut with a sharp band knife

Each type of cutting machine requires the right tool to keep the blade sharp and thus to achieve the best cutting results. sitola offers you a wide range of grinding disks and cup grinding stones that are

selected to best fit to our blade steels. As a result you achieve best cutting results and a long lifetime of the band knives.



cup grinding stone 125 x 63 x 30



cup grinding stone 150 x 80 x 32



cup grinding stone 80 x 40 x 20



cup grinding stone 50 x 32 x 13



cup grinding stone 76 x 40 x 20



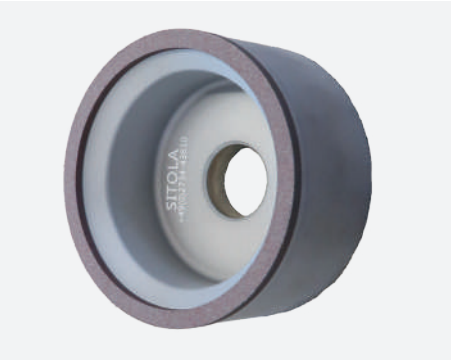
grinding disk 200 x 13 (20) x 90



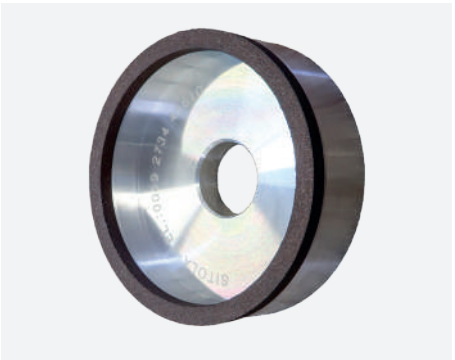
grinding stone 65 x 12 x 8



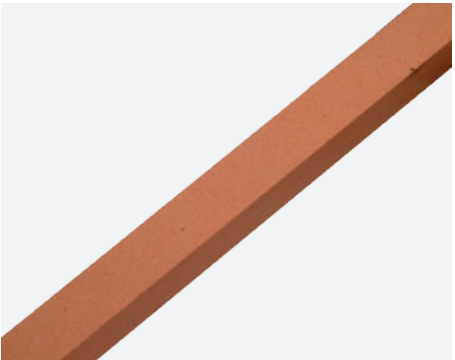
CBN grinding disk



CBN cup grinding stone



CBN cup grinding stone



dressing stone



dressing diamond

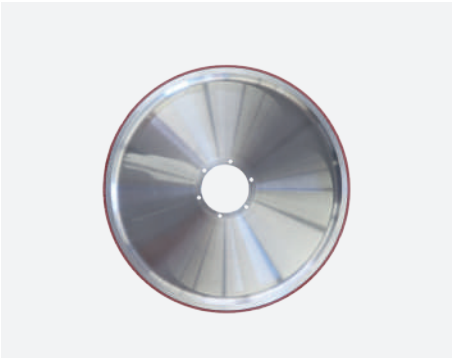
Long lifetime and ready-to rework

sitola holds a large range of running wheels available for your machine. Among those are wheels for vertical cutting, horizontal cutting and CNC contour cutting machines. Each wheel has been designed to fit best into your foam cutting machine. You may profit

twice with the sitola running wheels: they are made of materials that extend their lifetime. At the same moment it allows us to rework your old ones with new rubber coatings so that you don't need to purchase new wheels.



Running wheels



drive wheel contour cutting



running wheel contour cutting



running wheel contour cutting



running wheel wire cutting



running wheel wire cutting



running wheel vertical cutting



running wheel vertical cutting



wheel holding fixture



circular brush

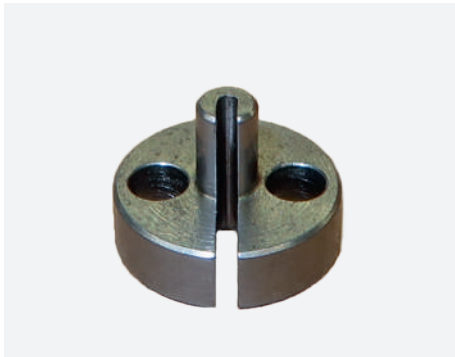
Highest precision spare parts

We know CNC contour cutting requires highest precision and best quality on all mechanical parts to make the perfect cut. Therefore we have developed

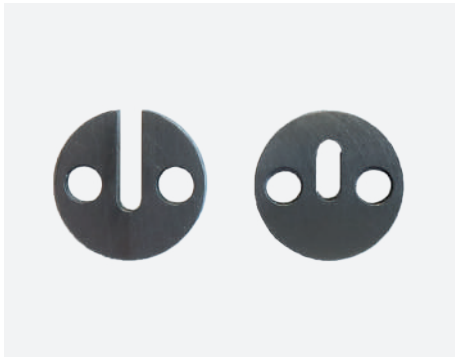
and distribute the best spare parts for knife turning units of your oscillating or circulating CNC contour cutting machines.



knife guide for center support



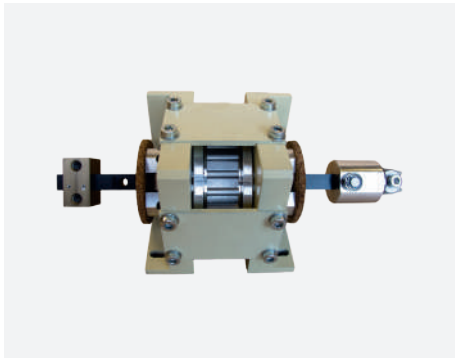
cover guide for center support



cover guide for center support



knife turning unit



knife turning unit



push rod



anti twist device



clamp cover for push rod



tension wire



deflection roller tension wire



connecting rod (dog bone)



convoluted rubber gaiter



deflection roller incl. bearing



deflection roller with slot



precision water spirit level

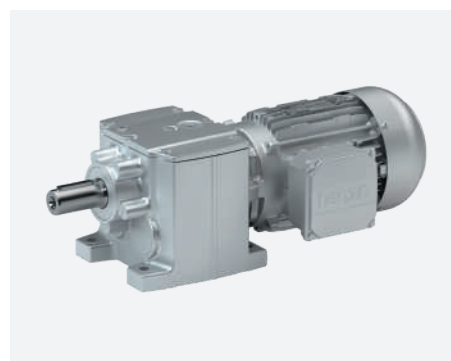
Exchange spare parts for your foam cutting machines

You surely know the problem: again a motor fails and there is no replacement for it or worse not even the OEM has the part. sitola offers electrical spare parts for your foam cutting machines that are sometimes not

even provided by the original machine manufacturers. You may get your machine running again with new substitutes or repaired devices.



servo motor



AC gear motor



controller (old v.) in exchange



joystick (old v.) in exchange



servo inverter



panel



controller



servo inverter



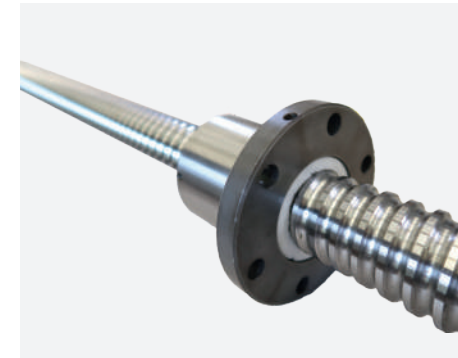
dust exhausting unit



All kind of mechanical spare parts quickly available

At sitola we continuously try to extend our range of mechanical spare parts. Thus we have learned to stock a wide range of different spare parts for your foam

cutting machines. Since most of them are available in our stock you may receive them by overnight express in case of machine stops or maintenance issues.



spindle



ball guiding segment



track roller for chain guide



running rolls for cutting head



knife guide



gear wheels



guide cars



pneumatic spare parts



pneumatic spare parts



toothed belt



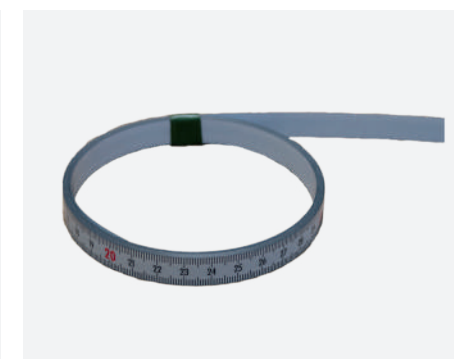
guide roller incl. housing



guide roller



conveyor belts



measuring tape cutting table



manual cut-a equipment



Machine upgrades

What is Retrofit?

Retrofit is the replacement of mechanical and electrical components and the modernisation of the control system of your foam cutting machine.

Since older technology tends to wear out and is not available any more Retrofit is the perfect way for older machines to reach the state-of-the-art without having to be completely replaced.

Cost savings

- A new control system is the cost-effective alternative to purchasing a new cutting machine or even Retrofits offered by other suppliers.
- Short retrofitting time.
- If necessary, the old motor is simply replaced with the new one. There is no need to make any adaptations on-site, which significantly reduces the conversion time.
- User-friendly control system interface.
- An optionally integrated modem enables remote diagnoses and software updates worldwide. This drastically reduces service costs.



Vendor independence

- The conversion has multivendor-capability and can be implemented for all cutting machines from various manufacturers.
- The sitola CNC-control reads machine code of various providers. That means you can continue using your CAD programming software.



Reliability

- Fast provision of replacement parts overnight due to own stock-keeping.
- The newest generation of hardware components is independent and can be easily exchanged. If individual assemblies are no longer available after a longer period of time, it is possible to switch to other systems without any major difficulty.
- You may choose between a complete upgrade of the machine and partial upgrades of defective components.
- Existing safety equipment can be integrated into our control system.



Give your machine a second life!

Our CNC control system for CNC contour cutting machines is the cost-effective alternative to purchasing a new cutting machine. It can be universally integrated into machines from a wide range of manufacturers. All cutting programmes can be read and processed directly using our control system.

The existing CAD programming system can thus continue to be used. We use technology of the latest generation. We have our own stock of the components and motors. This prevents long waiting times in the event of a fault.



Advantages

- A new control system is the cost-effective alternative to purchasing a new cutting machine or even Retrofits offered by other suppliers.
- You are manufacturer independent.
- You can benefit from a guaranteed and economic spare parts supply.
- Due to the integration of various machine codes you can continue using your existing CAD programming software.
- Service costs are cut due to possible remote access maintenance.
- You may choose between a complete upgrade of the machine and partial upgrades of defective components.
- An easy-to-use and intuitive user interface ensures straightforward operation.



Do you want more?

Retrofitting your foam cutting machine does not only mean a simple exchange of inverters and the PLC. If necessary, sitola also offers an exchange of the motors, cables and other critical mechanical spare parts of your machine in order to get it running properly again.



motor table drive (old version)



exchange servomotor table drive



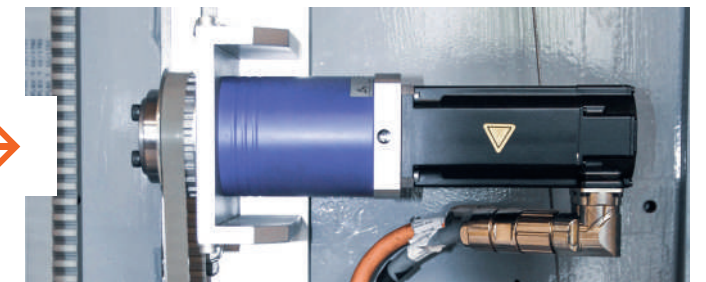
motor height adjustment (old version)



exchange servomotor height adjustment



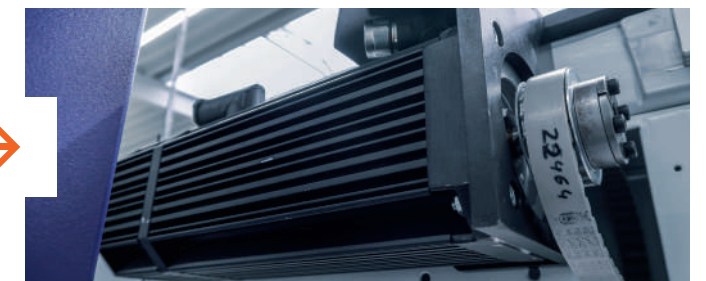
motor knife turning unit (old version)



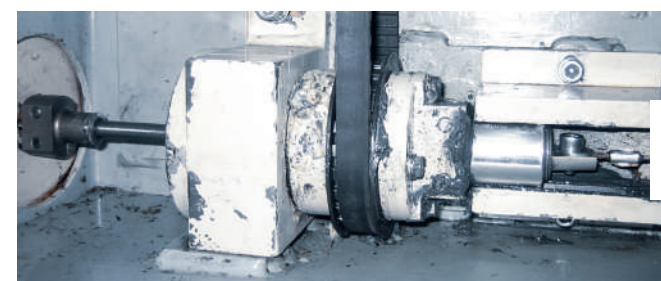
exchange servomotor knife turning unit



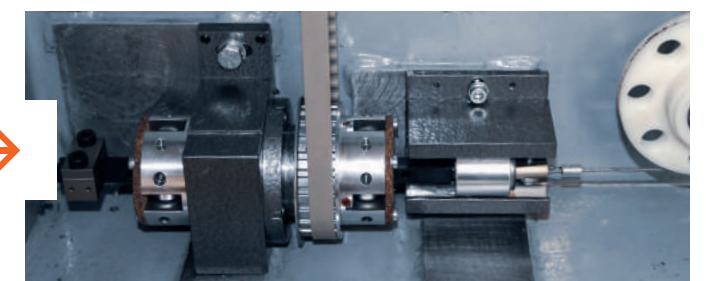
motor knife turning unit (old version)



exchange servomotor knife turning unit



knife turning unit (old version)



new sitola knife turning unit

CNC contour cutting machines

Our CNC control system for CNC contour cutting machines is the cost-effective alternative to purchasing a new cutting machine. It can be universally integrated into machines from a wide range of manufacturers. All cutting programmes can be read and processed directly using our control system.

The existing CAD programming system can thus continue to be used. We use technology of the latest generation. We have our own stock of the components and motors. This prevents long waiting times in the event of a fault.



machine upgrade type C 41



machine upgrade type F 52



before machine upgrade type C 41



after machine upgrade type C 41

Advantages

- A new control system is the cost-effective alternative to purchasing a new cutting machine or even Retrofits offered by other suppliers.
- You are manufacturer independent.
- You can benefit from a guaranteed and economic spare parts supply.
- Service costs are cut due to possible remote access maintenance.
- You may choose between a complete upgrade of the machine and partial upgrades of defective components.
- An easy-to-use and intuitive user interface ensures straightforward operation.
- We make upgrades for „old“ AC or DC motors as well as newer servomotors.

Vertical cutting machines

Our control system for vertical cutting machines is the cost-effective alternative to purchasing a new cutting machine. It can be universally integrated into machines from a wide range of manufacturers. It does not matter if your machine operates AC, DC

or newer servomotors. We use technology of the latest generation. Our own stock of the components and motors used also prevents long waiting times in the event of a fault. In addition, we offer complete conversion sets for vertical cutting machines.



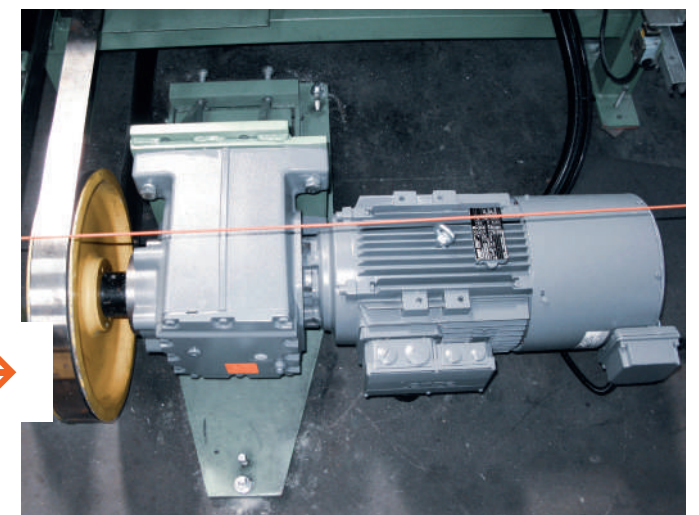
control panel (old version)



new sitola control unit



motor cutting unit (old version)



exchange AC motor cutting unit



Advantages

- A new control system is the cost-effective alternative to purchasing a new cutting machine or even Retrofits offered by other suppliers.
- You are manufacturer independent.
- You can benefit from a guaranteed and economic spare parts supply.
- Service costs are cut due to possible remote access maintenance.
- You may choose between a complete upgrade of the machine and partial upgrades of defective components.
- An easy-to-use and intuitive user interface ensures straightforward operation.
- We make upgrades for „old“ AC or DC motors as well as newer servomotors.

Horizontal cutting machines

Our control system for horizontal cutting machines is the cost-effective alternative to purchasing a new cutting machine. It can be universally integrated into machines from a wide range of manufacturers. It does not matter if your machine operates AC, DC or

newer servomotors. We use technology of the latest generation. Our own stock of the components and motors used also prevents long waiting times in the event of a fault.



machine upgrade type H 16



machine upgrade type BST-150



machine upgrade type H 24



machine upgrade type H 24

Advantages

- A new control system is the cost-effective alternative to purchasing a new cutting machine or even Retrofits offered by other suppliers.
- You are manufacturer independent.
- You can benefit from a guaranteed and economic spare parts supply.
- Service costs are cut due to possible remote access maintenance.
- You may choose between a complete upgrade of the machine and partial upgrades of defective components.
- An easy-to-use and intuitive user interface ensures straightforward operation.
- We make upgrades for „old“ AC or DC motors as well as newer servomotors.

We are making a skilled service team available for our customers. All of our technicians have been working on foam cutting machines for many years. Thus we

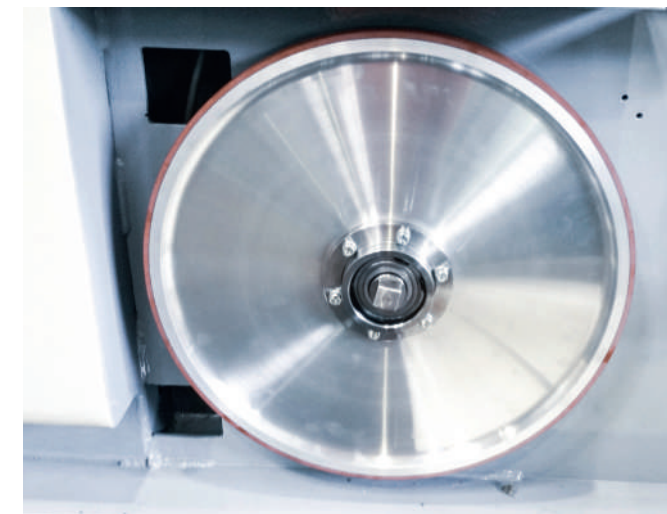
know all challenges or issues that may occur and can help you to maintain or repair your cutting machines in the best way.



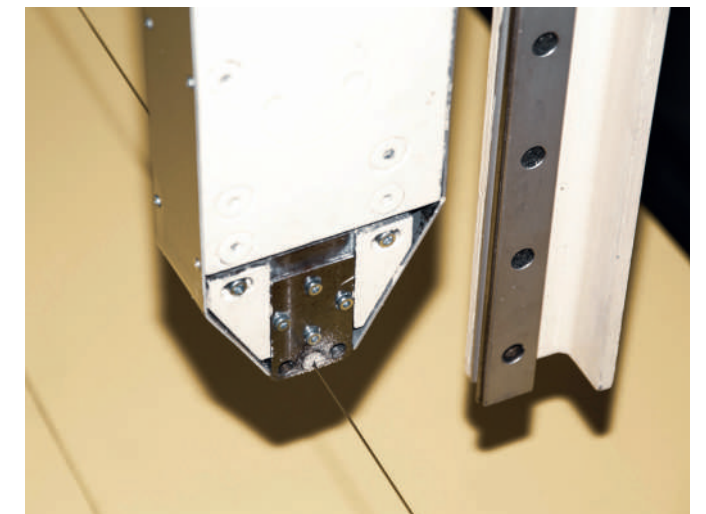
alignment of knife guides



installation and alignment of bindings



installation and alignment of running wheels



alignment of center support

Service world-wide

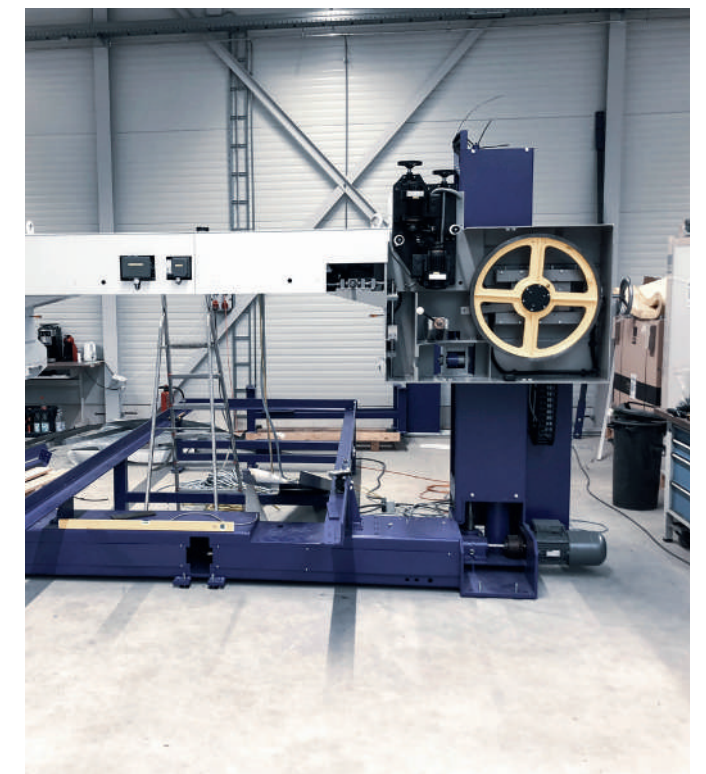
Advantages

- We repair and maintain your foam cutting machines on site.
- Personal consulting by telephone for problems which may arise is provided.
- You take advantage of a fast service that is provided world-wide.
- In case you want service at a time of your choice we offer service contracts that ensure the availability of our technicians.

Service world-wide

We are making a skilled service team available for our customers. All of our technicians have been working on foam cutting machines for many years. We therefore relocate or move your foam cutting machines wherever

you want. Thus it does not matter if you just want to relocate a single machine or if you plan to build up an entirely new plant.



Machine relocation

Advantages

- Due to the great experience of our technicians we are ready to move or relocate nearly each type of foam cutting machine.
- We move or relocate your foam cutting machine or even the whole machinery.
- We also work in larger projects as the installation of entire plants or factories.
- You can take advantage of our fast service that is provided world-wide.

Save on used foam cutting machines

You, too, can benefit from re-using a second-hand foam cutting machine.

The services we offer include purchasing and selling as well as professional servicing for mature cutting machines in the fields of vertical cutting, horizontal cutting and CNC contour cutting.



Save money with used foam cutting machines!

Our used foam cutting machines are the cost-effective alternative to purchasing a new cutting machine. You benefit from high quality machines „Made in Germany“ that have been completely checked and tested. Most of the used foam cutting machines are also completely

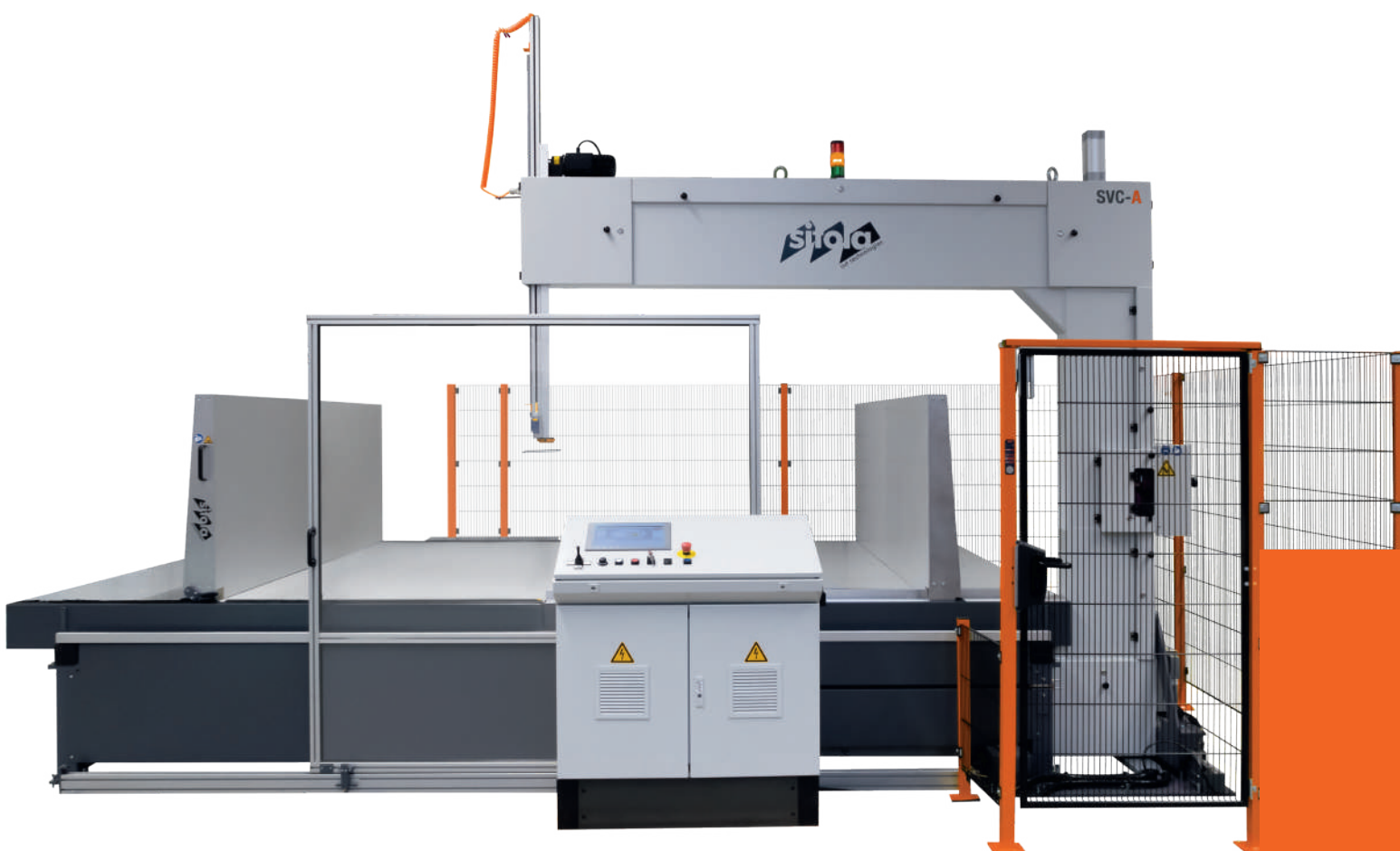
rebuilt. That means they have been equipped with a completely new machine control, new motors and new mechanical spare parts. They even look like a new machine. And not least it ensures the availability of any spare parts for a long time to go.



before upgrading a used machine by sitola



after upgrading a used machine by sitola



used machine BSR



used machine W 21

Advantages

- A used machine is the cost-effective alternative to purchasing a new foam cutting machine.
- All used machines are high quality foam cutting machines „Made in Germany“.
- All used machines are completely checked and tested.
- Most of the machines are being rebuilt with new spare parts and even a completely new control unit.
- You can benefit from a guaranteed and economic spare parts supply in the future.



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