High-tech belts

High-performance coated abrasives for the panel industry
We are a Swiss company
sia Abrasives, with its headquarters in Frauenfeld, Switzerland, is one of the world’s leading suppliers of innovative abrasives. The company develops, manufactures and markets complete abrasive systems, tailored to specific requirements and applications, for the surface treatment of every type of workpiece. These products turn sanding and grinding into surface technology.
sia Abrasives employs around 1,300 people worldwide and is represented with partners in over 80 countries.

Technology leader
Our careful choice of premium materials, the latest production and manufacturing equipment and sophisticated production technologies enable us to provide sanding products at the highest level in constant quality.

Innovative solutions
In close cooperation with leading manufacturers from various industries, new standards are developed for abrasives based on our own research and development work. Trendsetting abrasives and genuine product innovations with trendsetting processes result in sanding surface technology.
Production expertise
The flexible abrasives by sia Abrasives in Switzerland are developed according to the ever changing user requirements and explicit material analysis. They represent high-quality Swiss precision and workmanship with one goal: to be the best abrasives with the greatest possible efficiency to achieve a perfect surface.

Coated abrasives
Classic coated abrasives and abrasive systems for advanced surface treatment of all types of material.

Nonwoven abrasives
Nonwoven products for preparation and cleaning tasks and for structuring, especially on metal.

Foam abrasives
Foam sanding pads in the widest possible range of shapes and grades for precision sanding on wood, fillers, paintwork and varnish.

Bonded abrasives
Precision cutting discs for optimum cutting performance and efficient grinding discs for a wide variety of metalworking applications.
Coatings and Composites
This application area specialises in process-optimised surface solutions for processing and treating automotive body parts and fibre-reinforced plastics (such as carbon or glass fibre reinforced plastics) and offers a complete system comprising abrasives, machinery and accessories. Our application-specific solutions have been developed for the marine, aviation, transport, automotive and wind energy sectors as well as for bodywork specialists and automobile painters.

Wood
This application area covers the entire range of surface treatment for the group of customers in sectors such as furniture, interior finishing work, kitchen and shop fitting, boat-building, restoration, renovation and painting. A wide range of the many different types of products enables optimum surface finish for solid wood, wood-based materials, solid surface materials, paints and lacquers.
**Metal**
This application area focuses on surface treatment for all metals ranging from rough grinding to material removal through to structuring for finishing purposes. The market is split into five segments: metalware, container building and toolmaking; foundries and forges; rolling mills and drawing works; fixtures and fittings industry; and precision engineering and watch industry. This structure requires a broad range of products to achieve the perfect surface as demanded by the user.

**Panels**
This application area covers industrial manufacturers’ requirements for wood-based, solid wood and solid surface panels with perfect surfaces. siapan wide belts meet users’ demanding requirements with regard to consistency of quality, surface quality, lifetime and mechanical stability under load. The siaslide pad system means that the sanding process can be optimised further thanks to improved precision and time-saving as a result of shorter downtimes.

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Surface finishing expertise with innovation

There is a continuing trend towards increasingly efficient production processes in the panel industry. New surfaces solutions are therefore a must. In response to this, sia Abrasives has further expanded its surface finishing expertise by developing product innovations and partnerships. Across the entire value chain — from research and development, to logistics, through to training — sia Abrasives consistently gears everything towards the needs of customers.
Our system –
Your advantages
Customer benefits

Customer advice

On location, from professional to professional
As part of our personal customer service and support, our specialists are happy to provide their expert knowledge, also on location.

Thanks to our many years of experience, we develop optimal solutions for your sanding-related challenges.

Surface technology

Economical and efficient
We look at the required surface quality as a whole. This means that upstream and downstream machining processes are considered in the analysis, and factors such as efficiency, economy, quality and environmental pollution are also incorporated. If necessary, we search for alternative solutions.

Machining process

Perfectly harmonised products
To ensure that you achieve the required surface result, our engineers assist you in selecting the suitable product. We define optimal processing steps together.

Abrasives

Top-quality products from Switzerland
Sanding belts from sia Abrasives are state-of-the-art products, manufactured with meticulous care from selected raw materials. The range for the panel industry comprises products for all applications, from coarse through to fine sanding.

Tools and accessories

Comprehensive range
A broad, complete range of accessories perfectly tailored to abrasive and surface quality covers the needs of users.
Application training

Customer-specific seminars in Switzerland
Every year, many specialists from various branches of industry receive comprehensive training at our training centre in Frauenfeld. In the calm and relaxed atmosphere of our seminars, participants have the opportunity to broaden their knowledge of the products and exchange their experiences.

Documentation

Application-oriented resources
We provide comprehensive product information and detailed recommendations. These documents give you the means to ensure that you work with our products in a safe manner while guaranteeing that you end up with a perfect surface finish. In addition, we refer to FEPA safety recommendations and safety data sheets dealing with abrasives, all of which can be downloaded from www.sia-abrasives.com.

Packaging

Perfect protection
siapan belts for the panel industry are packaged in special cartons to provide perfect protection during transport and storage. For paper and combination belts, an additional air-tight polyethylene packaging is used to give protection from the various climatic conditions.

Distribution

Punctual and reliable
The aim of our efficient sales system is to satisfy your requirements with regard to product choice, quantity and delivery schedule.

The sia Group is represented in over 80 countries around the world.

Service

Customer-oriented solutions
We at sia Abrasives attach particular importance to maintaining close contact with our customers and partners. Our panel team is available to you at all times to help with technical questions, quotations and orders.
Wood-based materials
**Chipboard** (consists mainly of wood chips)
Chipboard is a subgroup of wood particle board. It is a flat, compressed sheet with a surface made of especially fine-grade chips.
It is made by gravity- or air-spreading processes, and during its manufacture there is a gradual transition from the coarse-grained inner layer to the fine-grained outer layer. Chipboard is in most cases veneered or covered with an outer coating. Because the edge faces of chipboard are very rough, these are rarely finished and are usually covered, for instance with an edging of solid wood.

**OSB** (consists mainly of micro veneers)
OSB (Oriented Strand/Structural Board) is a subgroup of wood particle board.
In its classical form, it consists of three layers. This involves aligning and compressing long, slim chips during the production process.
Due to its technical properties, it is mainly used in structural work and interior fitting, and also as a packaging material or formwork panel.
The chip structure gives the OSB panel its characteristic appearance. This makes it suitable not only for “invisible” use, but also for decorative applications, which is why it is also used in furniture manufacture.

**MDF** (consists mainly of wood fibres)
MDF (medium-density fibreboard) is a sheet material made from wood fibres. MDF’s technical properties make it one of the world’s fastest-growing wood products. Based on finely crushed fibres of conifer wood, usually without bark, and produced by a gentle compression process, the result is a wood product which is consistently homogeneous in both its length and width.
MDF board is very easy to work with and is highly versatile in its applications. It is often used as a base material for laminate flooring and in the furniture industry, where the ability to finish its edges (profiling) is a highly desirable property.

**Plywood** (consists mainly of veneers)
The term plywood refers to sheets of wood made up of a number of layers of veneer glued one on top of the other. Each layer is rotated through 90° before being glued down to the layer beneath. The grain on the two visible sides runs parallel. The number of layers is therefore uneven. Plywood can be obtained in various kinds of wood and should be finished with an abrasive appropriate to the relevant wood; only the outermost layer is sanded, and this contains no adhesive. Plywood is used mostly for making furniture, models and also for interior finishing.

**HPL** (consists mainly of layers of paper soaked in synthetic resin and pressed)
Decorative high-pressure laminates are made of multiple layers of paper or textiles, soaked in synthetic resin, which are pressed while being subjected to pressure and temperature to form panels with an overlay.
Special materials can be used to give the surface properties such as scratch resistance, heat or light resistance, or even to make it odourless.
Due to their design and technical variety, they are made into many products such as tabletops, door leaves, furniture or kitchen worktops. To do so, they are keyed on the back in order to achieve optimal adhesion with a carrier material such as MDF or chipboard.
# Product overview

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1718 siapan – The professional paper belt for perfect fine sanding without chatter marks

The special series for fine sanding or intermediate sanding of MDF boards, hard fibre boards and chipboard: 1718 siapan ensures perfect, chatter mark free quality due to its optimised belt joint.

**Application**
- Intermediate sanding
- Fine sanding
- Intermediate sanding of trimmed panels (pad sanding)
- Intermediate sanding of MDF boards, hard fibre boards and chipboard (pad sanding)
- Keying prior to direct painting

**Advantages**
- Chatter mark free surface finish thanks to optimised belt joint
- Gentle on sanding platen
- Product with increased strength and stability

**Product profile**
- **Grit type:** Silicon carbide
- **Backing:** G-wt paper
- **Coating:** Electrostatic open closed
- **Bonding:** Resin over resin
- **Equipment:** TopTec

**Properties**
- **Removal rate:** low very high
- **Lifetime:** short very long
- **Finish:** medium very good

**Grit range**

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**Belt joint**

**P060–P220**

The upper and lower sections are ground to a scarf joint and glued together. This joint enables absolutely chatter mark free sanding because it has no excess thickness.
**2718 siapan – The multi-purpose sanding belt for coarse to fine sanding**

With its robust, flexible polyester backing and broad grit range, 2718 siapan ensures consistently precise, high-quality results in all common applications from surface calibrating through to fine sanding.

**Product profile**
- **Grit type:** Silicon carbide
- **Backings:** Z-wt cloth, polyester
- **Coating:** Electrostatic open-P024–100 closed-P120–220
- **Bonding:** Resin over resin
- **Equipment:** TopTec

**Application**
- Calibrating
- Intermediate sanding
- Fine sanding
- Keying chipboard, MDF boards and hard fibre boards
- Keying HPL (back)
- Keying plywood, wood core plywood and solid wood panels

**Advantages**
- Suitable for the entire sanding process, from surface calibrating through to fine sanding
- High tear resistance
- High climate resistance
- Suitable for frequent belt changing
- Can be used as wide belt and segmented belt
- Easy handling
- Waterproof and washable

**Properties**
- **Removal rate:**
  - low
  - very high
- **Lifetime:**
  - short
  - very long
- **Finish:**
  - medium
  - very good

**Grit range**

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**Belt joint**

**P024 – P220**

Spliced joint with tape inserted on the grit side, no excess thickness anywhere in the grit range.
2728 siapan – The very robust all-round sanding belt for coarse to fine sanding

Suitable for universal use, 2728 siapan offers top-class conditions for top-class quality. With its especially sturdy polyester backing, it offers consistent results from surface calibrating through to fine sanding even in extreme applications and with long lifetimes.

Application
- Calibrating
- Intermediate sanding
- Fine sanding
- Keying chipboard, MDF boards and hard fibre boards
- Keying plywood, wood core plywood and solid wood panels

Advantages
- Suitable for the entire sanding process, from surface calibrating through to fine sanding
- Suitable for all industrial wide belt sanders
- High tear resistance
- High climate resistance
- Can withstand high lateral forces from belt oscillation
- Suitable for frequent belt changing
- Can bridge large gaps between guide rollers and sanding platen
- Can be used as wide belt and segmented belt
- Easy handling
- Waterproof and washable

Product profile
- Grit type: Silicon carbide
- Backing: Z-wt cloth, polyester
- Coating: Electrostatic open closed P040 – P100 P120 – P180
- Bonding: Resin over resin
- Equipment: TopTec

Properties
- Removal rate: low → very high
- Lifetime: short → very long
- Finish: medium → very good

Grit range

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Belt joint

P040 – P180
Spliced joint with tape inserted on the grit side, no excess thickness anywhere in the grit range.
2738 siapan – A new dimension in sanding

Thanks to its state-of-the-art coating technology, 2738 siapan ensures an optimised sanding pattern with the highest possible removal rate.

Additional advantages are the maximum width of up to 1,700 mm with only one belt joint and the exceptionally long lifetime with low wear.

Application
- Calibrating
- Intermediate sanding
- Fine sanding
- Keying chipboard, MDF boards and hard fibre boards
- Keying HPL (back)
- Keying plywood, wood core plywood and solid wood panels

Advantages
- Belt with just a single joint up to a max. width of 1,700 mm
- Suitable for the entire sanding process, from surface calibrating through to fine sanding
- High tear resistance
- Suitable for all industrial wide belt sanders
- Suitable for frequent belt changing
- High climate resistance
- Long life
- Easy handling
- Waterproof and washable

Product profile
- Grit type: Silicon carbide
- Backing: y-wt cloth / x-wt cloth, polyester
- Coating: Electrostatic open P040 – P100 closed P120 – P180
- Bonding: Resin over resin
- Equipment: TopTec

Properties
- Removal rate: low → very high
- Lifetime: short → very long
- Finish: medium → very good

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Belt joint

P040 – P180
Spliced joint with tape inserted on the grit side, no excess thickness anywhere in the grit range.
2918 siapan – The specialist for solid wood materials

Specialised for sanding soft and hard wood materials, 2918 siapan impresses not only with its robustness and transverse stability, but also with its optimal removal rate in the coarse grit range – as a wide belt and as a segmented belt.

Application
• Calibrating
• Intermediate sanding
• Fine sanding
• Keying plywood, wood core plywood and solid wood panels
• Calibrating solid wood

Advantages
• Dust-free process – antistatic construction gives low dust formation on belt, workpiece and machinery
• High transverse belt stability
• High removal rate in coarser grit sizes on softwood and hardwood
• Suitable for frequent belt changing
• Waterproof and washable
• Can be used as wide belt and segmented belt

Product profile

- Grit type: Semi-friable aluminium oxide
- Backing: Z-wt cloth, polyester
- Coating: Electrostatic open P036 – P060 closed P080 – P120
- Bonding: Resin over resin
- Equipment: TopTec

Properties

- Removal rate:
  - low
  - very high
- Lifetime:
  - short
  - very long
- Finish:
  - medium
  - very good

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Belt joints

- **P036 – P040**
  Joint for the coarse grit range. The grit coating is ground down in the overlapped area.

- **P050 – P120**
  Joint for the fine grit range. The grit coating is ground down in the joint area.
3708 siapan – The combination for top performance and top finish

The high-tech belts in the 3708 siapan special series are excellent for calibration, intermediate and fine sanding of wood-based materials, HPL and solid surface materials.

Application
- Calibrating
- Intermediate sanding
- Fine sanding
- Keying chipboard, MDF boards and hard fibre boards
- Keying HPL (back)
- Keying plywood, wood core plywood and solid wood panels

Advantages
- Suitable for the entire sanding process, from surface calibrating through to fine sanding
- Fine sanding pattern thanks to stable backing
- Very long lifetime
- Gentle on sanding platen
- Backing with very high strength and stability
- Can be used as wide belt and segmented belt

Properties
- Removal rate: low → very high
- Lifetime: short → very long
- Finish: medium → very good

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Product profile
- Grit type: Silicon carbide
- Backing: Paper/cloth combination
- Coating: Electrostatic open P036 – P100 closed P120 – P150
- Bonding: Resin over resin
- Equipment: TopTec

Belt joints

P036 – P050
The grit coating is ground off in the area of the overlapped cloth layer.

P060 – P150
Combination of overlapped and spliced joint with tape inserted on the grit side.
Correct sanding belt storage taking into consideration humidity and temperature fluctuations is very important for your surface.

**The following can be avoided:**
- Changes in dimensions
- Buckling
- Reduced sanding performance
- Belt slippage
- Belt flutter
- Breakage of belts or joints

**Correct storage means:**
- Enabling optimal sanding results
- Ensuring product life
- Obtaining good performance
- Reducing costs

**Storage conditions:**
- Do not store directly on the floor
- Store abrasives in their original packaging
- Hang belts up before using them

- Do not store at openings, e.g. windows or doors
- Avoid cold/warm air streams
- Relative humidity of 40 – 70%

- Do not store near to heat sources, e.g. radiator
- Avoid direct sunlight
- Temperature: 15 – 25 °C or 59 – 77 °F
Accessories

- Pad H
  - Graphite anti-friction coating
  - Felt backing
  - Wooden base

- Pad M
  - Graphite anti-friction coating
  - Foam backing
  - Wooden base

- Pad S
  - Graphite anti-friction coating
  - Foam backing
  - Wooden base
siaslide pad system

The innovation for consistent sanding precision

The siaslide pad system consists of a sanding platen and the innovative siaslide pad which makes life considerably easier for the user. Time-consuming fitting of the abrasive is not necessary with the siaslide pad system, because the permanently installed sanding platen remains in the machine even when the siaslide pads are being changed. The ready-to-use pad comprises a wooden carrier and a support backing with graphite and is simply pushed into the platen. This ease of handling speeds up the work process as a result of shorter machine changeover times. An additional benefit is the elimination of expensive maintenance and spare-parts costs. Users can enjoy consistent precision in the sanding process, with perfect results on the workpiece.

The siaslide pad system is an ideal complement to the top Swiss quality siapan high-tech belts.

siaslide pad system range:

Pad model 80/40
Version: Felt (heavy) or PU foam (medium + soft)
Length: 685 – 3,480 mm

Pad model 80/55
Version: Felt (heavy) or PU foam (medium + soft)
Length: 685 – 3,480 mm
TopTec – Further improved with Maker 5 technology

**State-of-the-art coating technology**
- Very uniform scattering thanks to exceptionally consistent grain positioning
- Outstanding lifetimes due to less clogging
- Maximum removal rate and optimised sanding pattern thanks to laser-checked, electrostatic coating

**Superior belt joints**
- Premium manufacturing quality and high quality consistency
- High level of stability and long lifetime
- Comprehensive, solution-oriented belt joint concept
- Many years of know-how thanks to sia Abrasives Engineering

**Best antistatic properties**
- Less cleaning required, less wear and longer lifetime of equipment thanks to reduced dust accumulation in machines and assemblies
- Better work conditions due to minimised dust in the ambient air
- Longer belt life and greater durability due to low level of clogging

**Consistent quality**
- Quality products “Made in Switzerland”
- High-precision, laser-controlled and ultrasound-monitored measurement procedures for consistent product quality and exceptional quality reliability

**Pioneering manufacturing processes**
- Swiss technology from one of the world’s most state-of-the-art manufacturing plants
- Backing, base and size coats, and abrasive grains are combined with each other in a fully automated, high-tech process at the plant
Maker 5 – Abrasives manufacturing of the highest order

Maker 5 – The future of abrasives production
One of the world’s most state-of-the-art abrasives production plants manufactures 40 million square metres of abrasives per year. And it does so at a maximum production speed of 80 m/min. The result is premium-quality abrasives made from the best ingredients to produce a Swiss quality product.

Customer requirements determine production
Maker 5 enables sia Abrasives to react quickly and flexibly to customer orders and to minimise stocks because this ultra-modern facility allows for largely uninterrupted production. This represents cutting-edge technology for the world of abrasives.

2,000 versions largely without interruption
sia Abrasives uses a completely new machine concept to ensure its virtually uninterrupted production of over 2,000 different versions of abrasives — especially with regard to bonding agent production, backing changeover, bonding agent application and grit changeover. The result is a fully automated manufacturing process with one specific aim, namely to provide you with the key to a perfect surface.

Unique process and quality control
High-precision, laser-controlled and ultrasound-monitored measurement procedures record over 1,000 permanently controlled process parameters in order to deliver top products in consistent quality.

Consideration for people and nature – “Made in Switzerland”
The Maker 5 abrasives manufacturing plant is not only one of the most state-of-the-art facilities of its kind, it is also a clear commitment to Switzerland as a production location. Ecological criteria are important to sia Abrasives. A new bonding agent preparation method prevents problematic industrial wastewater from being produced. Optimised air conduction processes and heat recovery systems reduce the need for heat energy considerably. Optimised processes when switching to a new product cause considerably less waste and reduce disposal requirements to protect the environment.