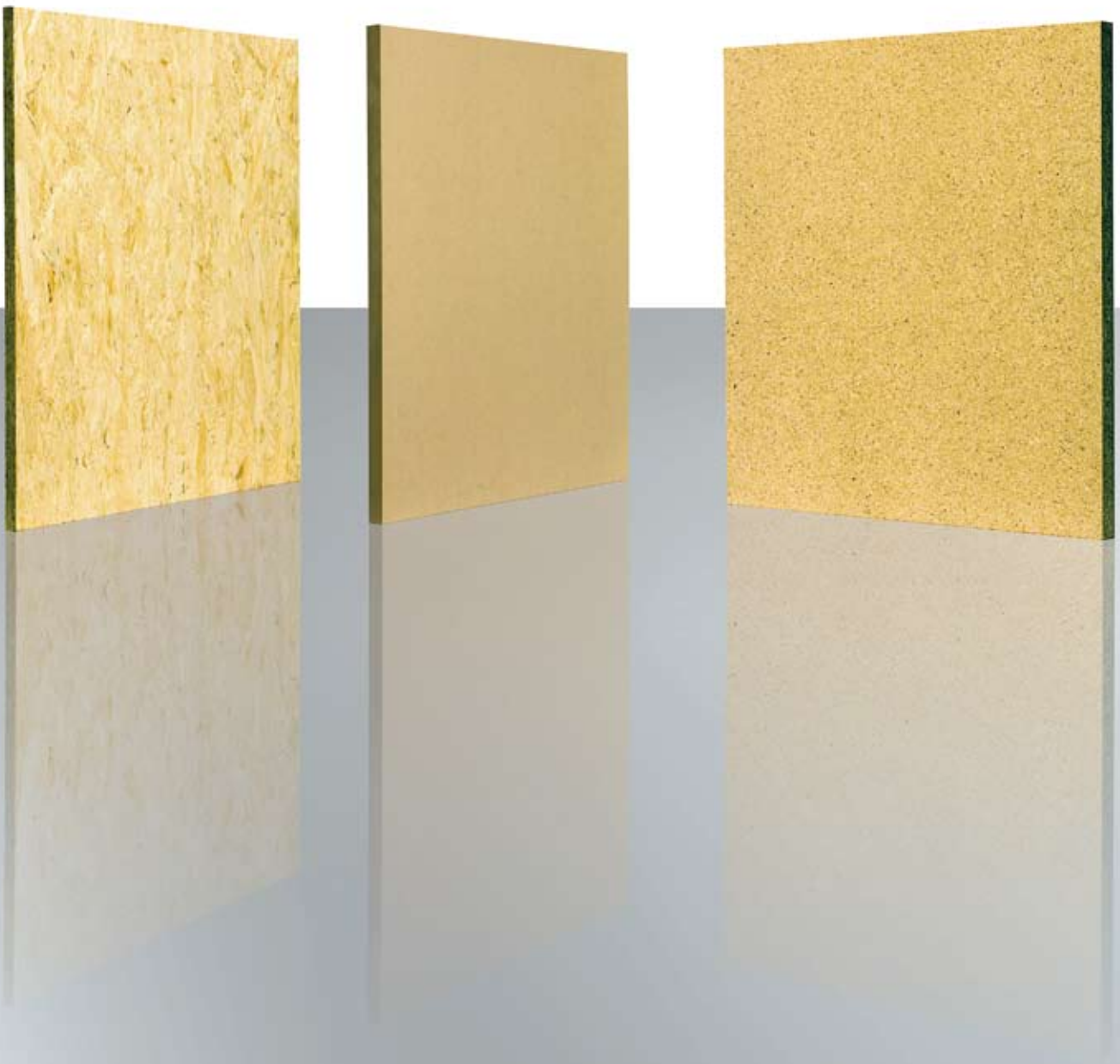


Sandvik steel belts for wood based panels



Sandvik steel belts – much more than the supply of product

“We can offer product and process solutions that support our customers. Our aim is to supply high quality steel belts that provide optimum plant efficiency and performance and increase productivity.”





Sandvik steel belt installations at customer plants showing our worldwide industry experience.

Sandvik has a long history and a well-established reputation in the market as a reliable and innovative supplier of high quality steel belts for the production of particle board, MDF, OSB and coated boards.

Total service with a local presence

Our wide range of stainless and carbon steel belts is backed by a high level of technical support and an extensive maintenance and repair capability.

We operate in over 130 countries and have a local presence in key markets. We are where you need us to be.

Optimum panel properties

Our products are designed and produced to the highest product quality in order to provide optimum panel properties.

Skilled engineers

Our skilled and trained engineers are always available to offer servicing and technical support and to give recommendations on the care and maintenance of belts.

World leaders in steel belt processing technology

We invest heavily in Research and Development, using our in-depth knowledge of steel manufacture, to ensure that our ongoing product development meets the latest processing and product needs of our customers.

The double belt process technology – developed in collaboration with our OEM customers and now the industry standard – is just one of our major contributions to wood based panel production.

Hindrichs-Auffermann

Hindrichs-Auffermann – specialists in the manufacture of press belts and press plates for applying textures to laminates and melamine coated wood based panel surfaces – are part of the Sandvik Group.

Using sophisticated laser welding techniques to etch textures directly into the surface and welding seam of steel belts, Hindrichs-Auffermann made the important breakthrough that enabled the industrial use of textured steel belts in double belt presses.



Technical service and support – increasing ‘uptime’ by reducing ‘downtime’

We understand the importance of maximizing and maintaining production and ensuring minimal downtime and production losses. The excellence of our after-sales service capability is as important to us as our product quality, so that plant and maintenance managers can regard Sandvik as a reliable supplier and partner, able to provide the highest level of support.

We're there when you need us!

- 24 hour service line geared to providing service support 24 hours per day / 7 days per week
- Easy access to specialist service technicians worldwide
- Local presence in over 130 countries

And, the support goes still further. Our ‘QuickTools’ programme provides a range of high quality, light-weight, easy to handle tools for carrying out cost efficient belt repairs on site. Full training on maintenance and service equipment is available.

Our engineers can investigate and give recommendations on improving plant efficiency and performance and are happy to pass on our worldwide industry experience.



QuickTool products

For further information, please refer to our product sheets, available from your local representative or via the Sandvik website www.smt.sandvik.com/sps

The QuickTools programme

Sandvik QuickDisc™

For easy removal of damaged belt areas

Specially designed for the wood based panel market, the Sandvik QuickDisc tool enables quick and easy removal of damaged areas in steel belts and the production of circular blanks for repairs.

Sandvik QuickCutter™

For efficient, precise cutting and end preparation of press belts

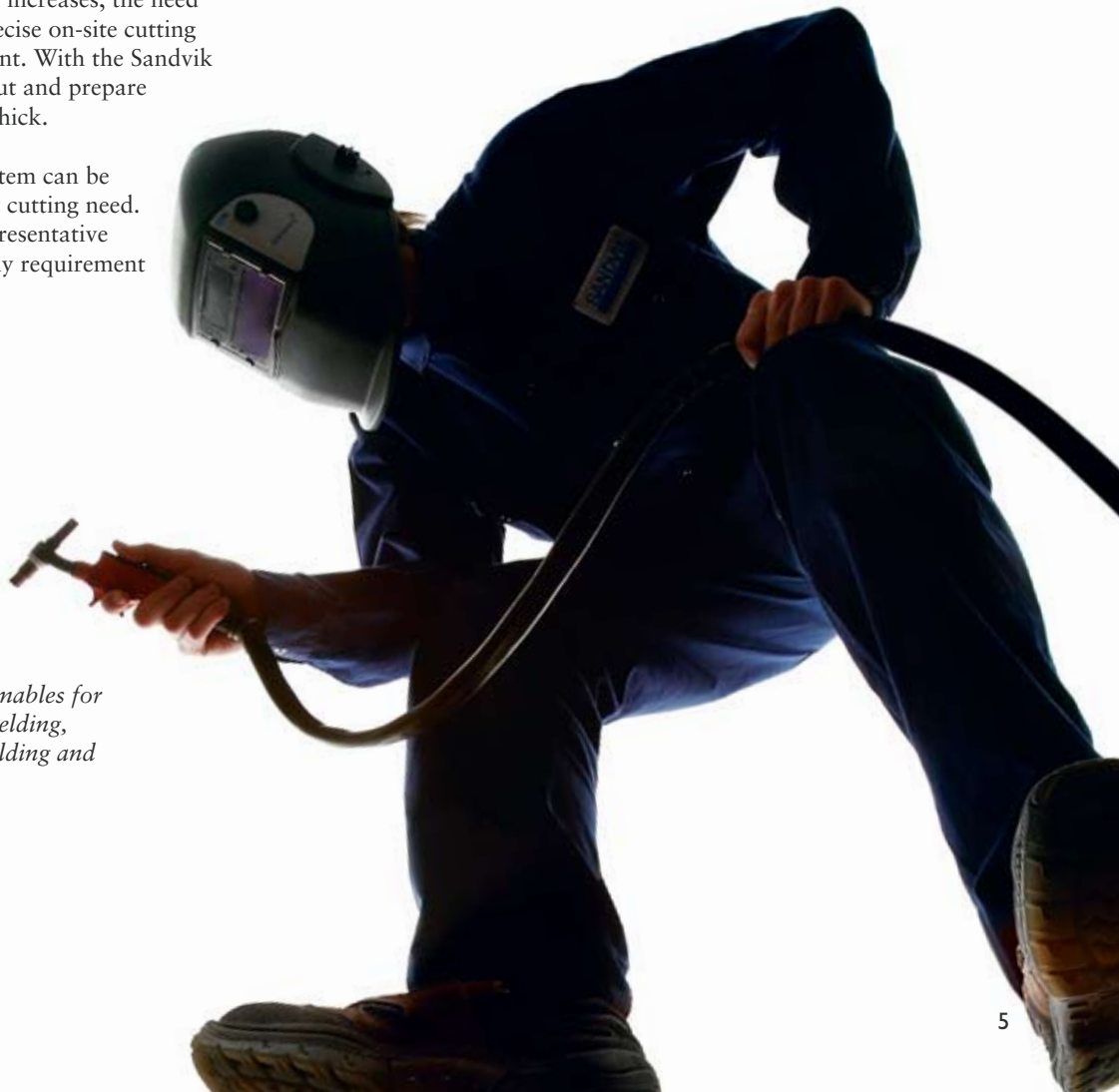
As the use of thicker steel belts increases, the need for a means of efficient and precise on-site cutting has become a major requirement. With the Sandvik QuickCutter, it is possible to cut and prepare belts for welding up to 4 mm thick.

The Sandvik QuickCutting system can be customized for almost any belt cutting need. Please contact your service representative for more information about any requirement you may have.

Sandvik QuickPeener™

A portable shot peening unit specially designed for repairing deformed press belts

Press belts in double belt presses can deform over time into a convex shape. The Sandvik QuickPeener overcomes this problem by incorporating a blasting head, which travels across the width of the belt and flattens out any irregularity. The key benefits are that there is no plant stoppage or costly dismantling of belts.



Other service products

We also supply welding consumables for steel belts, clamps for repair welding, fixtures for automatic joint welding and edge dressing.



Product range and technical data

Sandvik offers four main steel grades to the wood based panel market – two carbon grades, used for single opening presses and two stainless grades, used on double belt presses.



Sandvik 1300C and Sandvik 1320C

Sandvik 1300C belt grade is a hardened and tempered carbon steel. Sandvik 1320C is a dual phase carbon steel, which offers the benefit of welding without further heat treatment.

Both grades are characterized by:

- Very good static strength
- Very good fatigue strength
- Very good thermal properties
- Excellent wear resistance
- Good reparability

Sandvik 1500SM and Sandvik 1650SM

Sandvik 1500SM and Sandvik 1650SM are made from low carbon, martensitic, precipitation hardened stainless steel.

Both grades are characterized by:

- Excellent static strength
- Excellent fatigue strength
- Good corrosion resistance
- Very good wear resistance
- Very good reparability



Sandvik Group

The Sandvik Group is a global high technology enterprise with 42,000 employees in 130 countries. Sandvik's operations are concentrated on three core businesses: Sandvik Tooling, Sandvik Mining and Construction and Sandvik Materials Technology – areas in which the group holds leading global positions in selected niches.

Sandvik Materials Technology

Sandvik Materials Technology is a world-leading manufacturer of high value-added products in advanced stainless steels, special alloys, metallic and ceramic resistance materials, as well as process plants and sorting systems.

Quality Assurance

Sandvik Materials Technology has Quality Management Systems approved by internationally recognized organizations.

We hold for example: the ASME Quality System Certificate as a Materials Organization; approval to ISO 9001, QS-9000 and PED 97/23/ EC, as well as approvals from LRQA, JIS, TÜV and others as a materials manufacturer.

Environment

Environmental awareness is an integral part of our business and is at the forefront of all activities within our operation. We hold ISO 14001 approval.

Size range

Sandvik 1300C and 1320C	
Belt thickness	1.2 and 1.4 mm
Belt width up to (mm)	Performance
1240	Single width
2380	One long weld
3500	Two long welds

Sandvik 1320C is also available in 1.6 mm thickness

Size range

Sandvik 1500SM and 1650SM	
Belt thickness	1.8 up to 3.5 mm
Belt width up to (mm)	Performance
1560	Single width
2790*	One long weld
4400	Two long welds
4620	Three long welds

* For central weld 3030 mm

Mechanical and physical properties at room temperature – approx values

	Sandvik 1300C	Sandvik 1320C	Sandvik 1500SM	Sandvik 1650SM
Proof strength, MPa (ksi)	1200 (174)	1250 (181)	1420 (206)	1580 (229)
Tensile strength, MPa (ksi)	1280 (186)	1340 (194)	1500 (218)	1600 (232)
Density, kg/m ³ (lb/in ³)	7850 (0.284)	7810 (0.282)	7800 (0.282)	7740 (0.280)
Modulus of elasticity, MPa (ksi) x 10 ³	201 (29.1)	205 (29.7)	197 (28.6)	197 (28.6)
Thermal expansion, 1/°C (1/°F) x 10 ⁶				
20 -100°C (68-212°F)	11.1 (6.2)	11.8 (6.6)	10.8 (6.0)	10.9 (6.1)
Thermal conductivity, W/(m ·°C) (Btu/(ft·h·°F))	38 (22)	34 (20)	16 (9.2)	15 (8.7)
Specific heat capacity, kJ/(kg·°C) (Btu/(lb·°F))	0.46 (0.11)	0.45 (0.11)	0.46 (0.11)	0.50 (0.12)

For further information, contact the local Sandvik office or our website www.smt.sandvik.com/sps

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