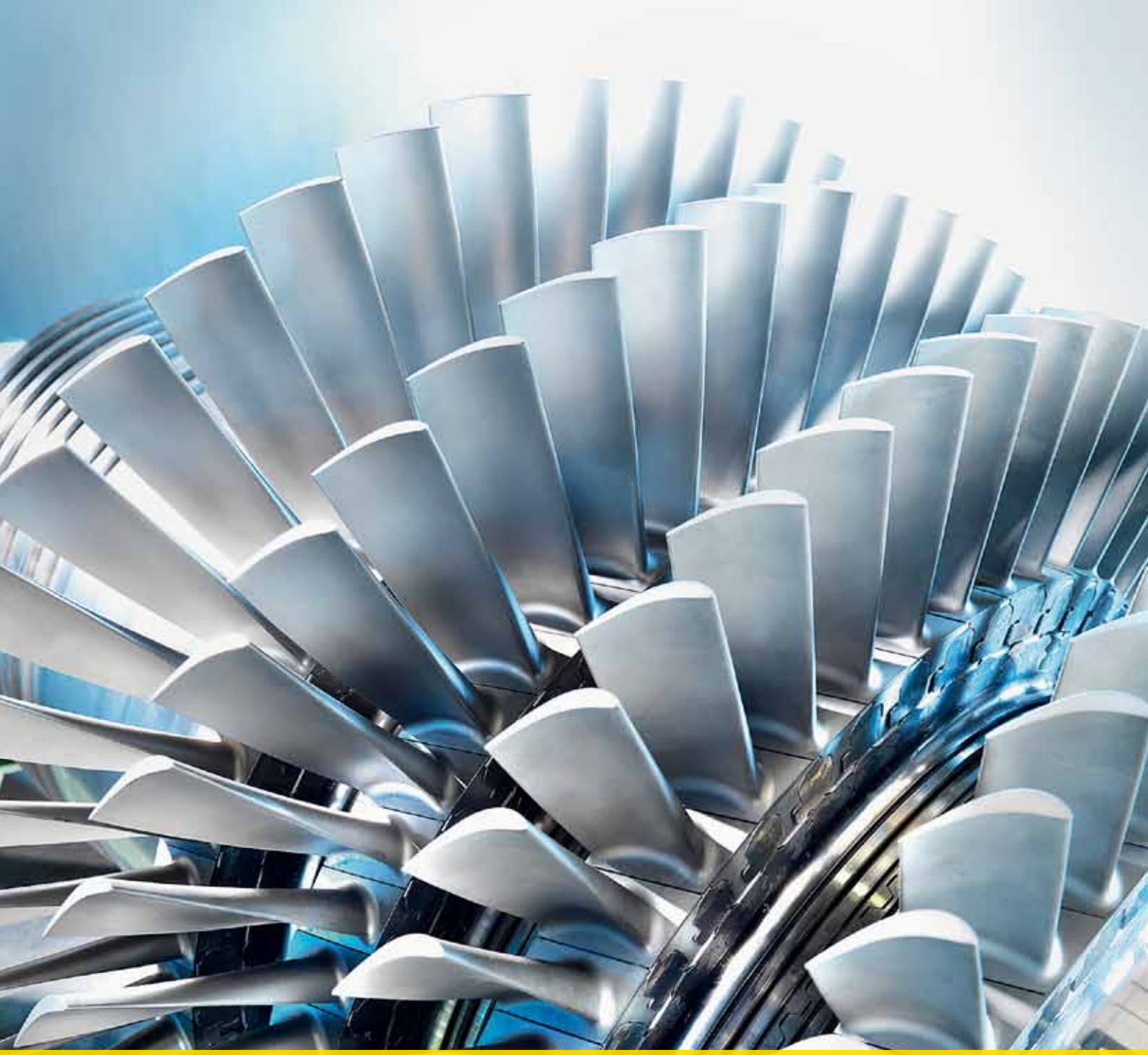


Turbine Industry

High-tech abrasives for surface finishing

sia ABRASIVES

sia Abrasives – Center of Excellence

Welcome to the «sia Abrasives – Center of Excellence» for surface finishing in the turbine industry. Our activity is entirely dedicated to the perfect surface finish in your field of application, the manufacturing and repair of blades and vanes and other components like seals and casings. We are focusing on components for aircraft engines, gas turbines and compressors and also for steam turbines. We offer years of experience in producing coated abrasives for specific applications – an experience you can rely on. The aim of our «Center of Excellence» is to offer you competent advice and application support for the surface finishing of your specific products.

The demanding requirements on material and the tough operating conditions of turbine components ask for corresponding abrasives. Standard products used for conventional grinding operations do not offer the same efficiency. sia Abrasives has developed specific high-grade abrasives for a perfect surface finish on turbine components. As a result of our continuous research and improvement of our coated abrasives we can now offer you specific products for surface finishing on:

- Investment casting components
- Forged compressor and turbine parts
- Milled or bar milled compressor and turbine blades
- Repaired components (e.g. blades, vanes, honeycomb seals, casings)

With our product portfolio on coated abrasives for the turbine industry you can achieve the perfect surface finish.

sia
ABRASIVES

Finishing Solutions

Deburring

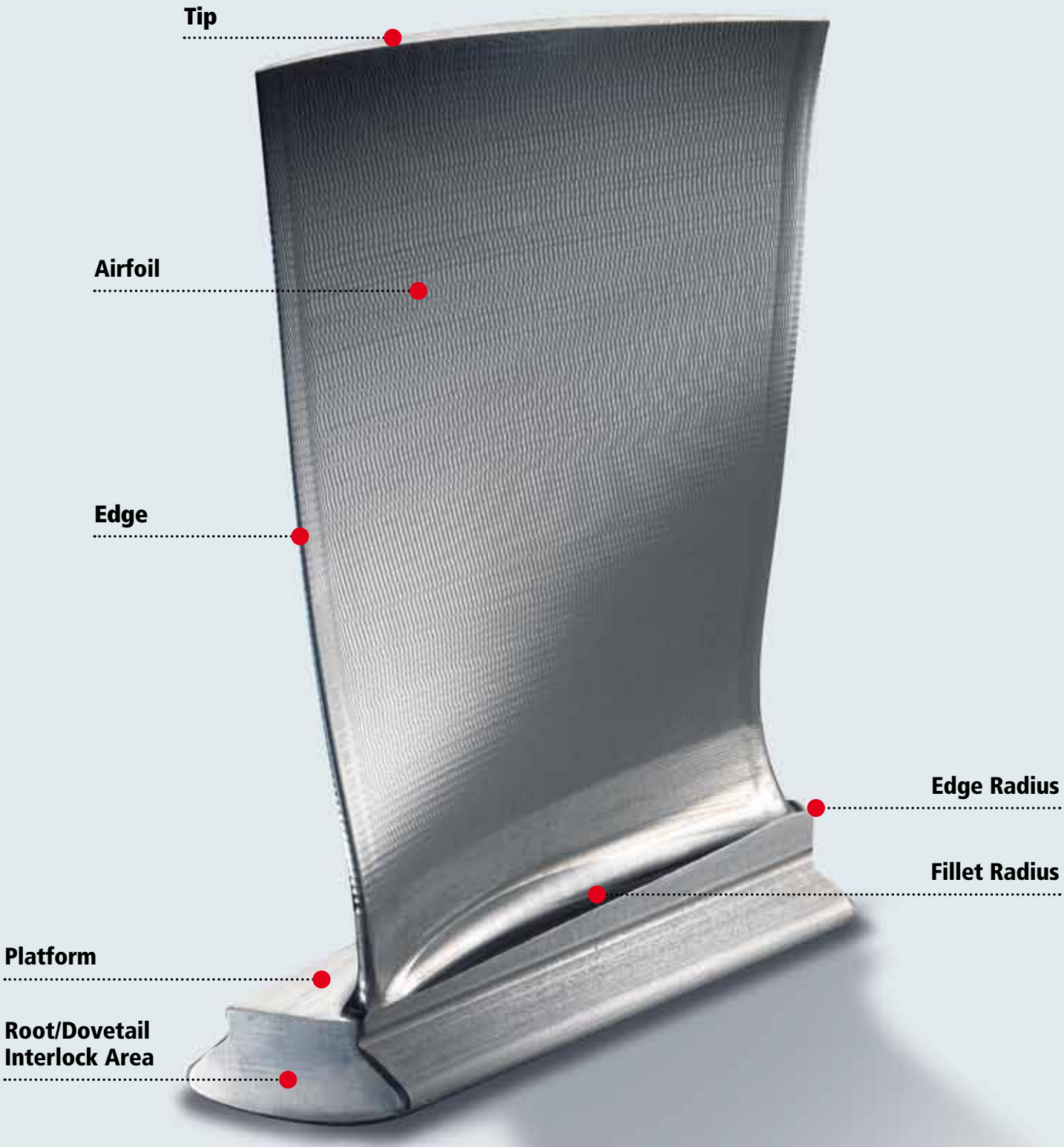
Deburring
Deburring of edge and tip on new or repaired components e.g. milled compressor blade

Blending / Polishing

Blending / Polishing
Blending of airfoil on new or repaired components e.g. milled compressor blade

Edge radiusing

Edge radiusing
Technical wheels are a perfect product for edge radiusing on new or repaired components e.g. milled compressor blade


Tip
Airfoil
Edge
Edge Radius
Fillet Radius
Platform
Root/Dovetail
Interlock Area

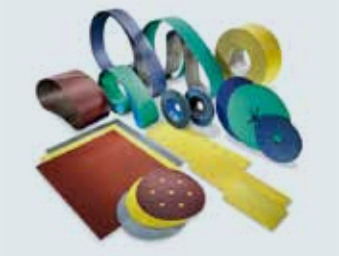
Commitment

Company
The sia Group is based in Frauenfeld, Switzerland, and is one of the world's top three suppliers of innovative abrasives. sia Abrasives develops, manufactures and sells complete sanding systems tailored to specific requirements and applications of all kinds, transforming sanding into surface technology.

sia Abrasives employs about 1250 people and is represented in more than 80 countries.

Top-quality products from Switzerland
Our careful choice of premium materials, the latest production and manufacturing equipment and sophisticated production technologies enable us to provide sanding products of the highest level. Abrasive materials from sia Abrasives undergo continuous development based on demanding customer requirements and our detailed analysis of production materials. They thus represent the finest examples of Swiss precision and quality with one goal: a commitment to the perfect surface.

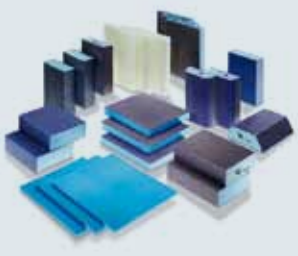
Innovative abrasives



Coated abrasives
Classic flexible abrasives and systems for conventional surface treatment on all types of material.

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

Microabrasives
Products on special polyester film to give defined surface structures in the areas of graphics, optics and the auto industry.



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

Environment

Environmental-friendly production, competent and ethical waste disposal

For many years we have concerned ourselves with the efficient use of energy and committed ourselves to protecting the environment. We have implemented many measures within our production processes to protect the air, earth and water. We use our energy and raw-material resources efficiently and carefully.

We care.
By joining the EnAW (Energy Agency for Industry) programme, we have voluntarily made a commitment to improve energy efficiency and limit our CO_2 emissions as part of our day-to-day operations.

We take responsibility.
As a «dry factory», we protect nature by not putting untreated industrial wastewater back into the water system (i.e. public drains). Weekly testing of additional industrial wastewater for compliance with regulations demonstrates that our wastewater is clean.

Quality

Choosing raw materials, setting quality standards

The comprehensive inspection programme in place in our manufacturing operations enables us to produce premium-quality products. The superior properties of sia products represent excellent value for our customers.

We verify.
We select our raw materials and their suppliers in accordance with strict criteria on quality, environmental impact and safety. Long-standing partnerships and continuous testing of raw materials ensure good-quality, reliable and fault-free materials.

We continually optimise.
Our internal process management system (PMS) records and improves important procedures and allows direct intervention in the production process where necessary. In this we can operate an active, committed opportunity-management programme.

People

A safe, healthy workplace

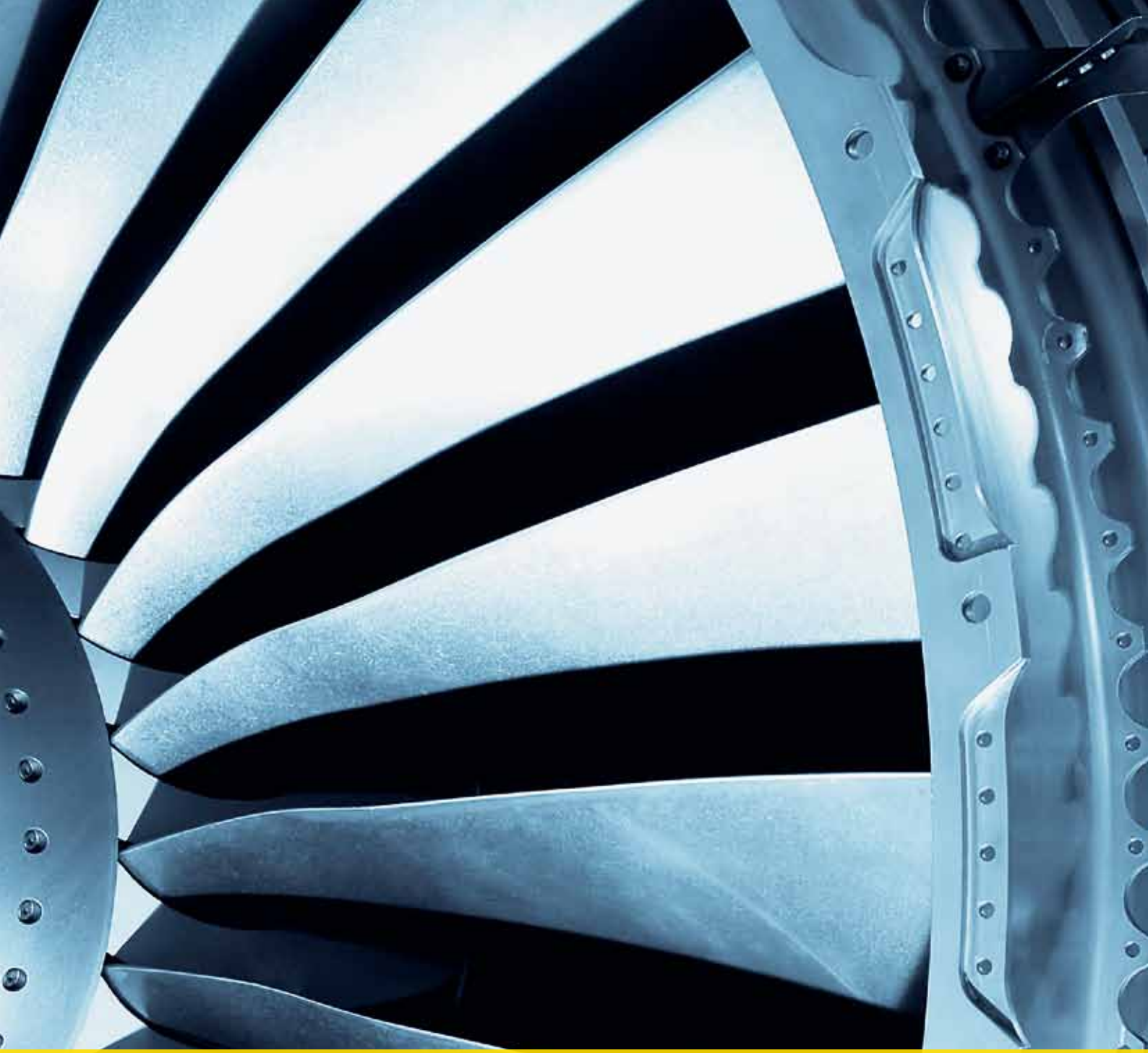
We set the standard for an accident- and hazard-free workplace. The well-being of people is an integral part of our culture and is based on OHSAS 18001 (Occupational Health and Safety Management Systems).

We are clean.
We develop products that also effectively help our customers remain healthy. We have had our finishing products tested for dust formation by the Swiss Accident Insurance Fund (SUVA). The results are impressive: the lowest dust emissions compared with our competitors' products.

We set an example.
sia Abrasives is one of the first companies in the world to comply with the new OHSAS 18001:2007 standard. We also comply strictly with the recommendations of the FEPA safety standards and publish this, together with other safety information, at www.sia-abrasives.com.

«REACH»
Regulations for chemicals
REACH (Registration, Evaluation and Authorisation of Chemicals) concerns a European Community regulation dealing with chemicals and has been in force since June 2007. Its purpose is to gather all necessary information regarding the properties of chemical substances and to examine their use and the associated risks to humans and the environment. We ensure compliance with REACH by keeping up-to-date records of all chemical materials and substances and by taking all necessary steps to meet our REACH obligations.

Aircraft Turbines

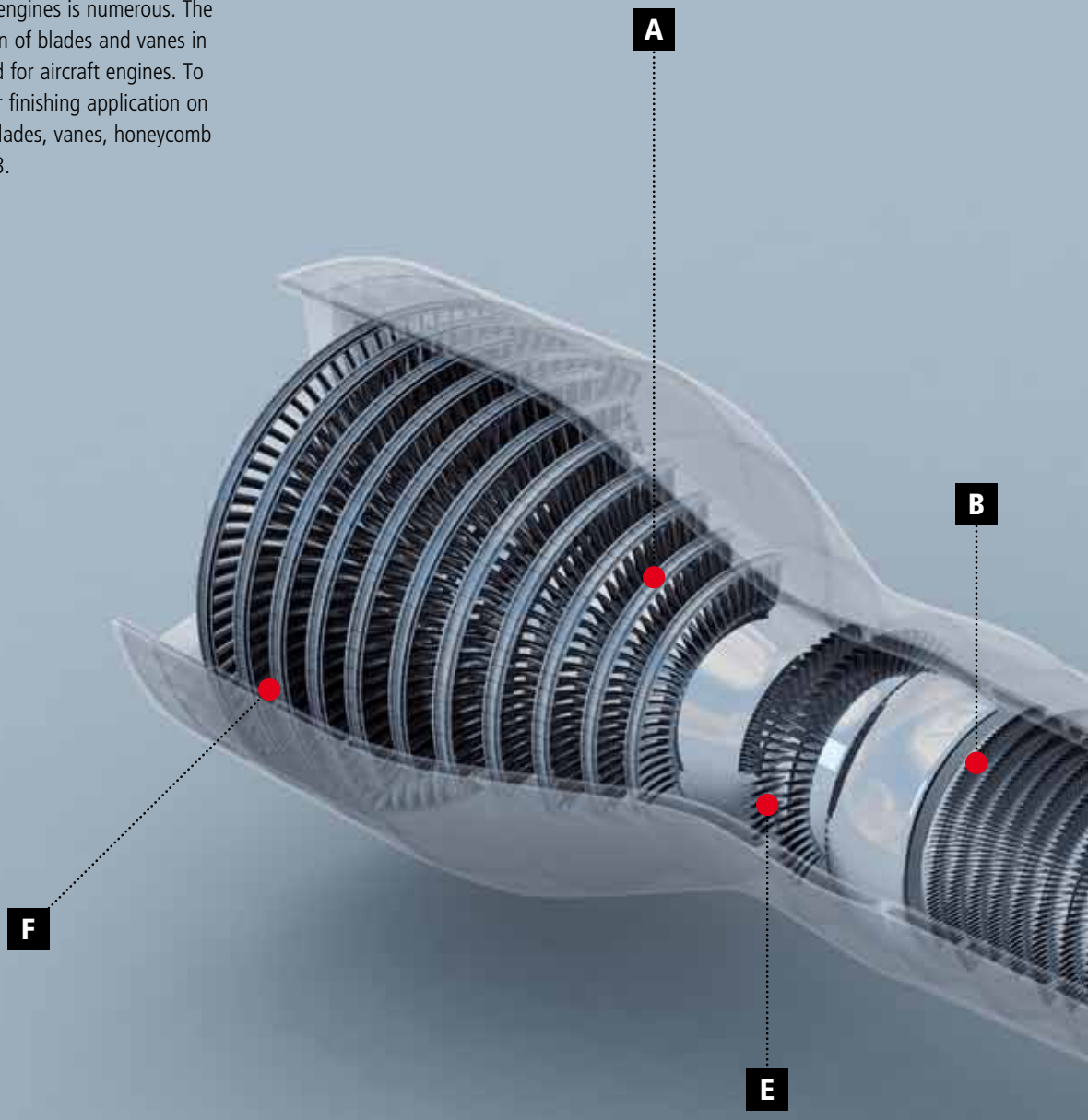


Aircraft engines have to operate and function under extreme conditions. The materials used for aircraft turbines have to tolerate harsh service environments. New or repaired components like blades, vanes, seals or casings require a perfect surface finish.
«Finished by sia Abrasives» – the final finish on your turbine and compressor components.

Pages 10–13

Turbine and compressor components

Large fan blades or small compressor blades, the variety of blades used in different aircraft engines is numerous. The examples shown are just a selection of blades and vanes in different shapes and materials used for aircraft engines. To select the correct abrasives for your finishing application on new or repaired components like blades, vanes, honeycomb seals and casings, see page 12–13.




A
B
C
D
E
F
C
D

Job / Application	Material			Grinding area												Grit size coated					
				Airfoil		Edge		Tip		Platform		Fillet radius	Root, Interlock area	Casing		Honeycomb							
	Stainless Steel	Superalloys	Titanium	Rep.	New	Rep.	New	Rep.	New	Rep.	New	New	New	Rep.	New	Rep.	16	24	36	40	50	60
Deburring 	●	●	●	B	B	B		B		V	V										●	●
		●	●	BV	BV	BV		BV		V						●			●	●	●	●
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	●	●	●								BV		BV									
Blending/Polishing 	●	●	●	BV	B	B		B		V	V										●	●
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Edge radiusing 	●	●	●	BV	BV	BV	BV	BV	BV	BV	BV	BV										
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B = Blades (rotor)
V = Vanes (stator)
BV = Blades and Vanes
Rep. = Repaired components
New = New components

80	100	120	150	180	220	240	280	320	400	500	600	Grade non woven: extra coarse	coarse	medium	fine	very fine	Your solution	Properties: Grit type	Top coat with coolant	Contact pressure	Flexibility	Wet grinding	Application: Stationary machine	Hand tools	Conversion: Belt*	Disc	Unitised wheel	Convolute wheel	Flap brush	Flap disc	Flap wheel	Fibre disc	Spiraband
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●	●	●	●	●													2803 siaron	Z	●	=	=		●	●	●								
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●	●	●															2820 siafix coated	Z		–	–			●		●								
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Contact pressure

– low
= low to medium
≡ medium
≡ medium to high

Flexibility

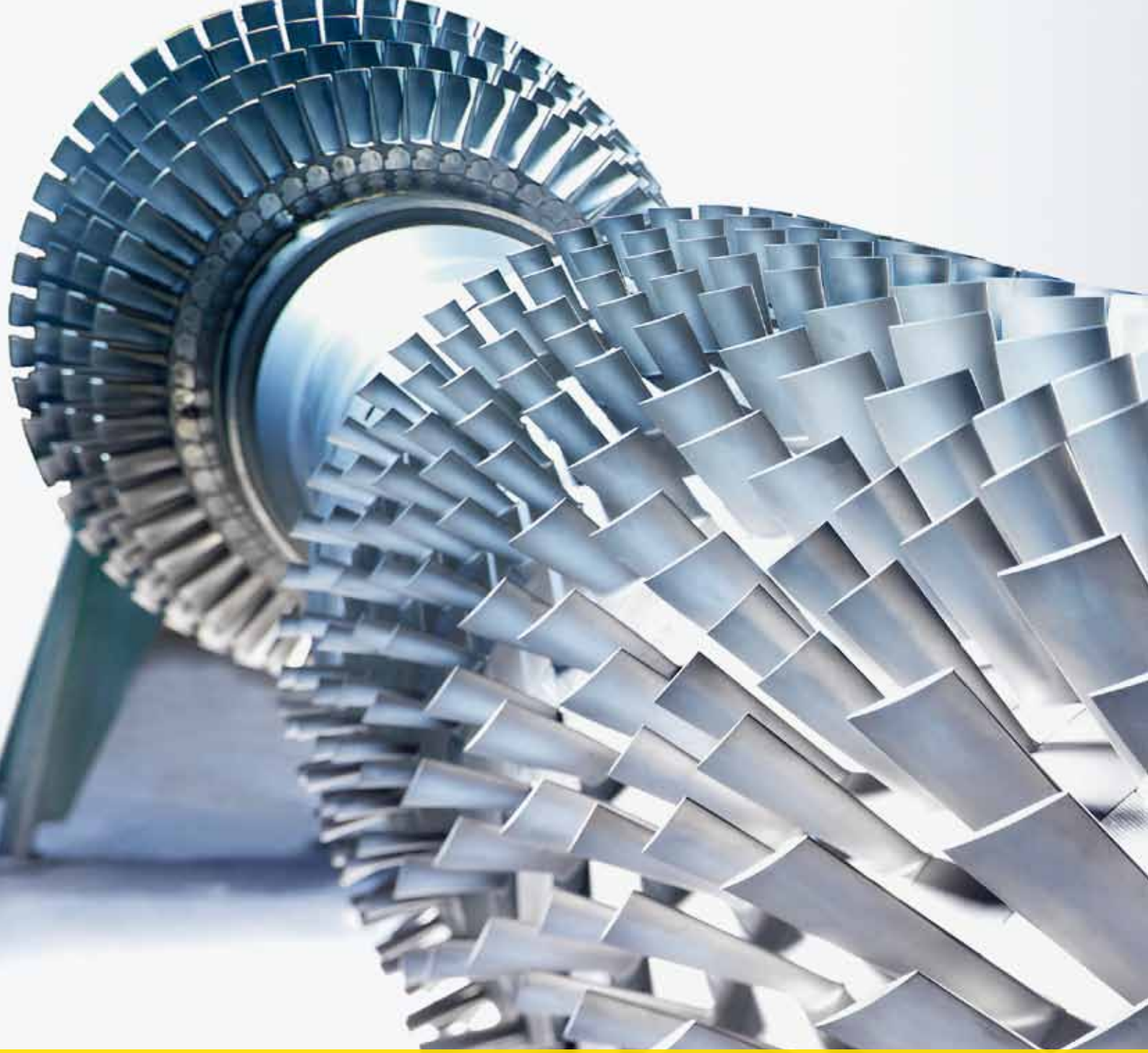
– rigid
= strong
≡ flexible
≡ very flexible

Grit type

CER Ceramic corundum
Z Zirconia alumina
A Aluminium oxide
SiC Silicon carbide
SiC/A Silicon carbide/ Aluminium oxide

*****

Belt width (straight cut) 5 – 400 mm
Belt length (straight cut) 300 – 4500 mm
Belt width (scalopped) 15 – 400 mm
Belt length (scalopped) 300 – 4500 mm
SCM Belts straight cut only



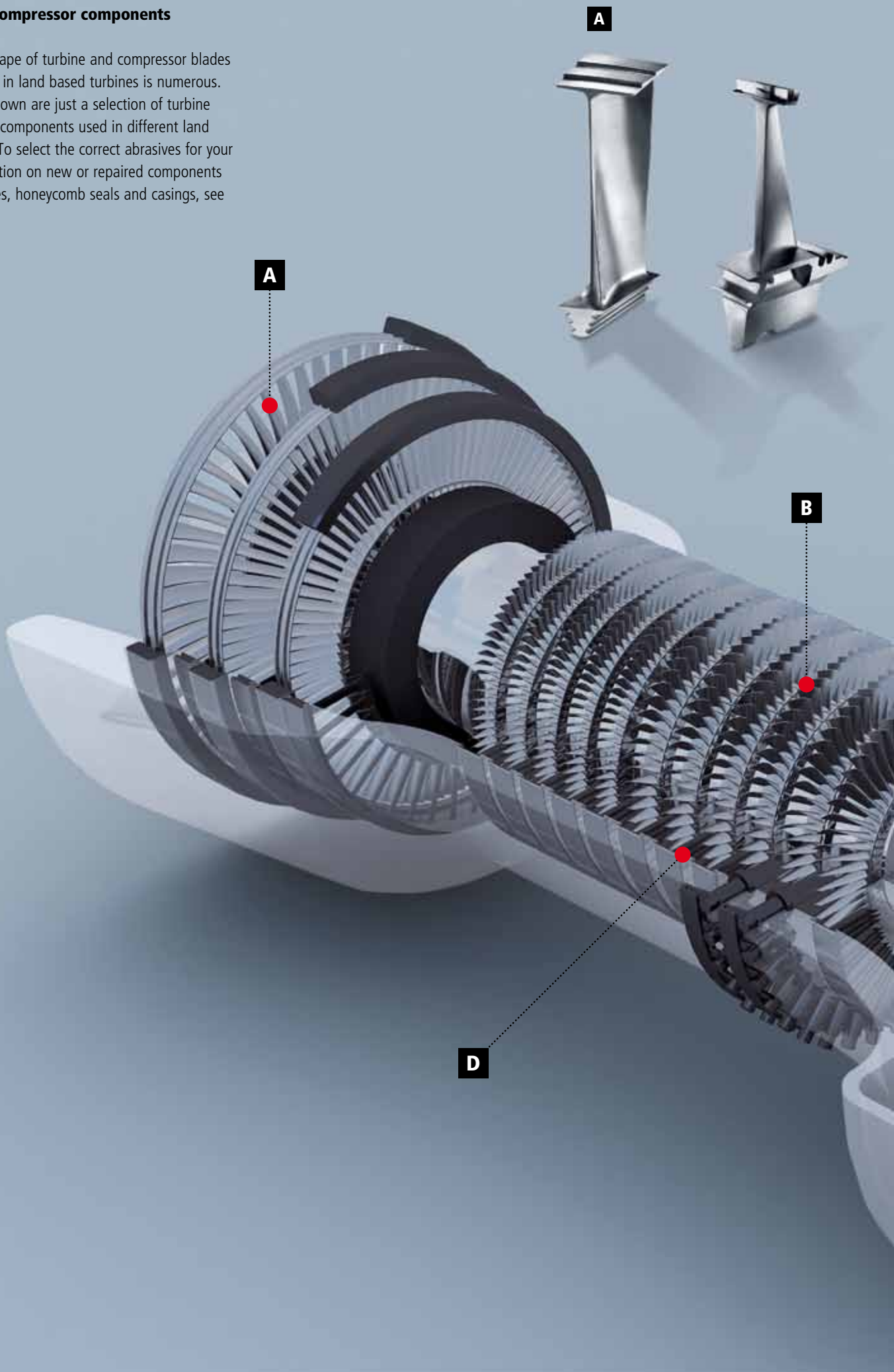
Land Based Turbines

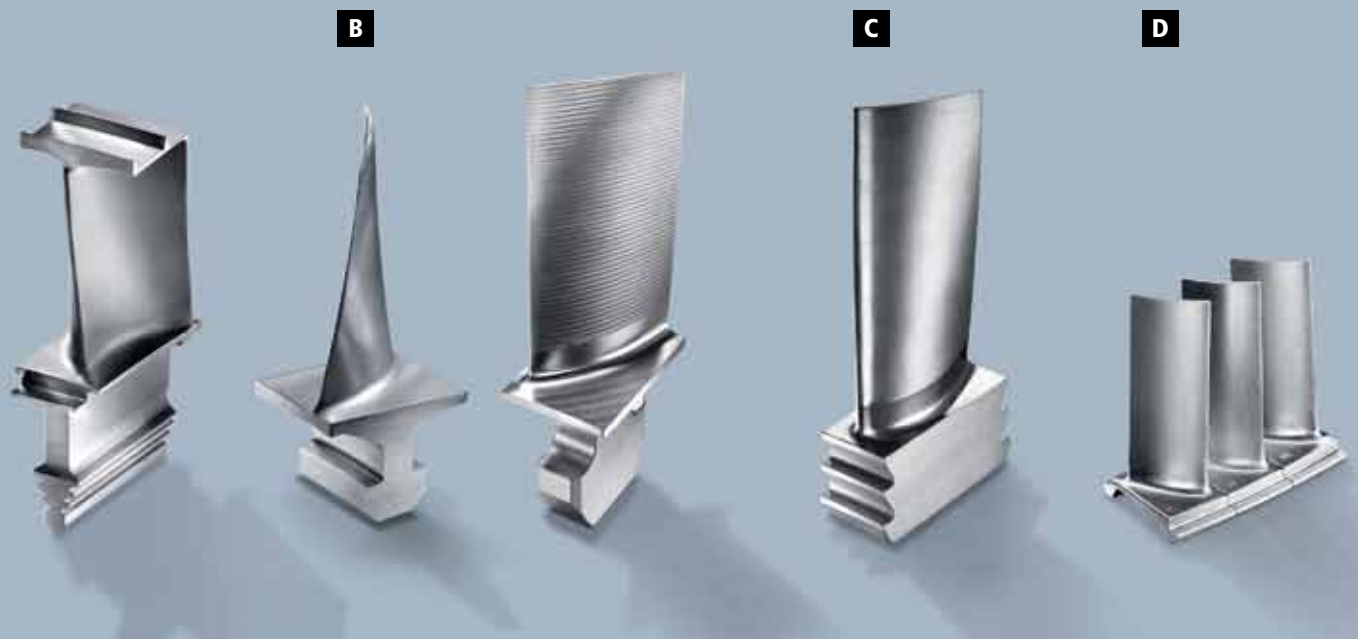
Energy supply in many countries is heavily depending on the reliability of land based turbines.
The materials used for land based turbines and compressors have to be of highest quality.
New or repaired components like blades, vanes, seals or casings require a perfect surface finish.
«Finished by sia Abrasives» – the final finish on your turbine and compressor components.

Pages 16–19

Turbine and compressor components

The variety in shape of turbine and compressor blades and vanes used in land based turbines is numerous. The examples shown are just a selection of turbine and compressor components used in different land based turbines. To select the correct abrasives for your finishing application on new or repaired components like blades, vanes, honeycomb seals and casings, see page 18 – 19.




B
C
D


C

Job / Application	Material			Grinding area												Grit size coated					
				Airfoil		Edge		Tip		Platform		Fillet radius	Root, Interlock area	Casing		Honeycomb						
	Stainless Steel	Superalloys	Titanium	Rep.	New	Rep.	New	Rep.	New	Rep.	New	New	New	Rep.	New	Rep.	16	24	36	40	50	60
Deburring	●	●	●	BV	BV	BV	BV	BV	BV	V	V										●	●
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B = Blades (rotor)
V = Vanes (stator)
BV = Blades and Vanes
Rep. = Repaired components
New = New components

80	100	120	150	180	220	240	280	320	400	500	600	Grade non woven: extra coarse	coarse	medium	fine	very fine	Your solution	Properties: Grit type	Top coat with coolant	Contact pressure	Flexibility	Wet grinding	Application: Stationary machine	Hand tools	Conversion: Belt*	Disc	Unitised wheel	Convolute wheel	Flap brush	Flap disc	Flap wheel	Fibre disc	Spiraband
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●		●															2824 spiraband	Z		=	—			●									●
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Contact pressure

— low
= low to medium
≡ medium
≡ medium to high

Flexibility

— rigid
= strong
≡ flexible
≡ very flexible

Grit type

CER Ceramic corundum
Z Zirconia alumina
A Aluminium oxide
SiC Silicon carbide
SiC/A Silicon carbide/ Aluminium oxide

*****

Belt width (straight cut) 5 – 400 mm
Belt length (straight cut) 300 – 4500 mm
Belt width (scalopped) 15 – 400 mm
Belt length (scalopped) 300 – 4500 mm
SCM Belts straight cut only

Product overview

New or repaired turbine and compressor components are surface finished with our high-tech coated and non-woven abrasives.
«Finished by sia Abrasives» – the final finish on your turbine and compressor components.

Pages 22 – 25

2510 siabite

Grit range	P50 – P120
Grit type	Ceramic corundum
Conversion	Belt
Application / Usage	Hand tools Stationary machine
Job / Application	Deburring Blending / Polishing Edge radiusing
Grinding area	Airfoil, Edge, Tip Platform
Contact pressure	low to medium
Flexibility	strong
Material	Stainless Steel, Superalloys Titanium
Wet grinding	no
Top coat	yes

2515 siabite

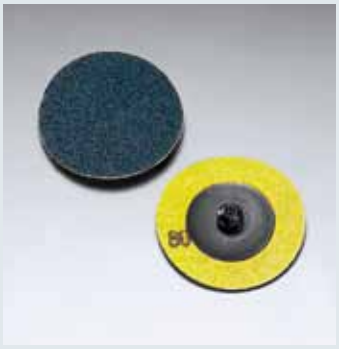
Grit range	P36 – P80
Grit type	Ceramic corundum
Conversion	Belt
Application / Usage	Hand tools Stationary machine
Job / Application	Deburring Blending / Polishing
Grinding area	Airfoil, Edge, Tip Platform, Honeycomb seal
Contact pressure	medium to high
Flexibility	rigid
Material	Superalloys Titanium
Wet grinding	no
Top coat	yes

2546 siatur

Grit range	P60 – P400
Grit type	Ceramic corundum
Conversion	Belt
Application / Usage	Hand tools Stationary machine
Job / Application	Blending / Polishing
Grinding area	Airfoil
Contact pressure	low to medium
Flexibility	very flexible
Material	Superalloys Titanium
Wet grinding	no
Top coat	yes

2815 siaron

Grit range	P24 – P80
Grit type	Zirconia alumina
Conversion	Belt
Application / Usage	Hand tools Stationary machine
Job / Application	Deburring Blending / Polishing
Grinding area	Airfoil, Edge, Tip Platform, Root and interlock area
Contact pressure	medium to high
Flexibility	rigid
Material	Stainless Steel, Superalloys
Wet grinding	no
Top coat	yes



2820 siamet siafix

Grit range	P40 – P120
Grit type	Zirconia alumina
Conversion	Disc
Application / Usage	Hand tools
Job / Application	Blending / Polishing
Grinding area	Platform Casing
Contact pressure	low
Flexibility	rigid
Material	Stainless Steel
Wet grinding	no
Top coat	no

2824 spiraband

Grit range	P36 – P150
Grit type	Zirconia alumina
Conversion	Spiraband
Application / Usage	Hand tools
Job / Application	Deburring Blending / Polishing
Grinding area	Airfoil, Edge, Tip Platform
Contact pressure	low to medium
Flexibility	rigid
Material	Stainless Steel, Superalloys
Wet grinding	no
Top coat	no

2707 siawat

P60 – P180

Silicon carbide
Belt
Stationary machine

Blending/Polishing

Airfoil

low to medium
strong

Titanium

yes
no

2747 siatur

P60 – P600

Silicon carbide
Belt
Stationary machine

Blending/Polishing

Airfoil, Edge, Tip

low
very flexible

Titanium

no
no

2800 siaron

P24 – P400

Zirconia alumina
Belt
Stationary machine

Blending/Polishing

Airfoil

medium to high
rigid

Stainless Steel

yes
no

2803 siaron

P50 – P180

Zirconia alumina
Belt
Hand tools
Stationary machine

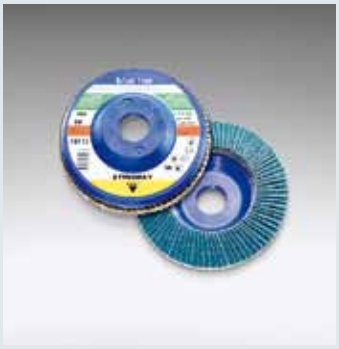
Deburring
Blending/Polishing

Airfoil, Edge, Tip

low to medium
strong

Stainless Steel, Superalloys

no
yes



2828 siaflap

P36 – P120

Zirconia alumina
Flap disc
Hand tools

Deburring
Blending/Polishing

Platform

low to medium
rigid

Superalloys

no
yes

2948 siatur

P80 – P600

Aluminium oxide
Belt
Stationary machine

Blending/Polishing

Airfoil, Edge, Tip

medium
very flexible

Stainless Steel, Superalloys

no
yes

2980 siafin 3D

P50 – P600

Aluminium oxide 3D
Belt
Stationary machine

Blending/Polishing

Airfoil

medium to high
rigid

Stainless Steel, Superalloys

yes
no

4515 siabite

P36 – P120

Ceramic corundum
Fibre disc
Hand tools

Deburring
Blending/Polishing

Platform

low to medium
rigid

Superalloys

no
yes

6120 siafleece

Grit range / Grade	medium, very fine
Grit type	Silicon carbide, Aluminium oxide
Conversion	Flap brush
Application / Usage	Hand tools Stationary machine
Job / Application	Blending / Polishing
Grinding area	Airfoil
Contact pressure	low
Flexibility / Density	flexible
Material	Stainless Steel, Superalloys Titanium
Wet grinding	no
Top coat	no

6250 siafix SCM

Grit range / Grade	coarse, medium, very fine
Grit type	Aluminium oxide
Conversion	Disc
Application / Usage	Hand tools
Job / Application	Blending / Polishing
Grinding area	Platform
Contact pressure	low
Flexibility / Density	flexible
Material	Superalloys
Wet grinding	no
Top coat	no

6420 siatech UXL

Grit range / Grade	coarse, medium, fine
Grit type	Silicon carbide, Aluminium oxide
Conversion	Unitised wheel
Application / Usage	Hand tools Stationary machine
Job / Application	Deburring Blending / Polishing Edge radiusing
Grinding area	Airfoil, Edge, Tip Platform Fillet radius
Contact pressure	low
Flexibility / Density	8A coarse, 6A medium, 6S fine, 4S fine
Material	Stainless Steel, Superalloys Titanium
Wet grinding	no
Top coat	no

6420 siafix unitised

Grit range / Grade	coarse, medium, fine
Grit type	Silicon carbide, Aluminium oxide
Conversion	Disc
Application / Usage	Hand tools
Job / Application	Blending / Polishing
Grinding area	Airfoil, Edge, Tip Fillet radius Casing
Contact pressure	low
Flexibility / Density	8A coarse, 6A medium 6S fine, 4S fine
Material	Stainless Steel, Superalloys Titanium
Wet grinding	no
Top coat	no

6430 siatech UBP

Grit range / Grade	medium, fine
Grit type	Aluminium oxide
Conversion	Unitised wheel
Application / Usage	Hand tools Stationary machine
Job / Application	Deburring Blending / Polishing Edge radiusing
Grinding area	Airfoil, Edge, Tip Platform Fillet radius
Contact pressure	medium to high
Flexibility / Density	7A medium X821 5A fine
Material	Stainless Steel, Superalloys Titanium
Wet grinding	no
Top coat	no

6520 siatech XL

Grit range / Grade	medium, fine
Grit type	Silicon carbide
Conversion	Convolute wheel
Application / Usage	Hand tools Stationary machine
Job / Application	Deburring Blending / Polishing Edge radiusing
Grinding area	Airfoil, Edge, Tip Platform Fillet radius
Contact pressure	low to medium
Flexibility / Density	7S fine, 8S fine 8S medium, 9S fine
Material	Stainless Steel, Superalloys Titanium
Wet grinding	no
Top coat	no

6420 spectrum red

coarse

Silicon carbide
Unitised wheel
Hand tools
Stationary machine
Blending/Polishing

Airfoil, Edge, Tip
Fillet radius
Casing
low to medium
rigid

Stainless Steel, Superalloys
Titanium
no
no

6420 spectrum grey

medium

Silicon carbide
Unitised wheel
Hand tools
Stationary machine
Blending/Polishing

Airfoil, Edge, Tip
Fillet radius
Casing
low to medium
strong

Stainless Steel, Superalloys
Titanium
no
no

6420 spectrum blue

fine

Silicon carbide
Unitised wheel
Hand tools
Stationary machine
Blending/Polishing

Airfoil, Edge, Tip
Fillet radius
Casing
low to medium
flexible

Stainless Steel, Superalloys
Titanium
no
no

6420 spectrum green

very fine

Silicon carbide
Unitised wheel
Hand tools
Stationary machine
Blending/Polishing

Fillet radius
low to medium
very flexible

Stainless Steel, Superalloys
Titanium
no
no

6914 siafleece SD

coarse

Aluminium oxide
Disc
Hand tools
Stationary machine
Deburring
Blending/Polishing
Edge radiusing

Platform
Root and interlock area
low to medium
flexible

Stainless Steel, Superalloys
Titanium
no
no

6923 siamet hf

coarse, medium, fine,
very fine

Aluminium oxide
Belt
Hand tools
Stationary machine
Blending/Polishing

Airfoil
low
flexible

Stainless Steel, Superalloys
no
no

6925 siamet scm

extra coarse, coarse,
medium, very fine

Aluminium oxide
Belt
Hand tools
Stationary machine
Blending/Polishing

Airfoil, Edge, Tip
Fillet radius
low to medium
flexible

Stainless Steel, Superalloys
no
no

spindle mounted mop

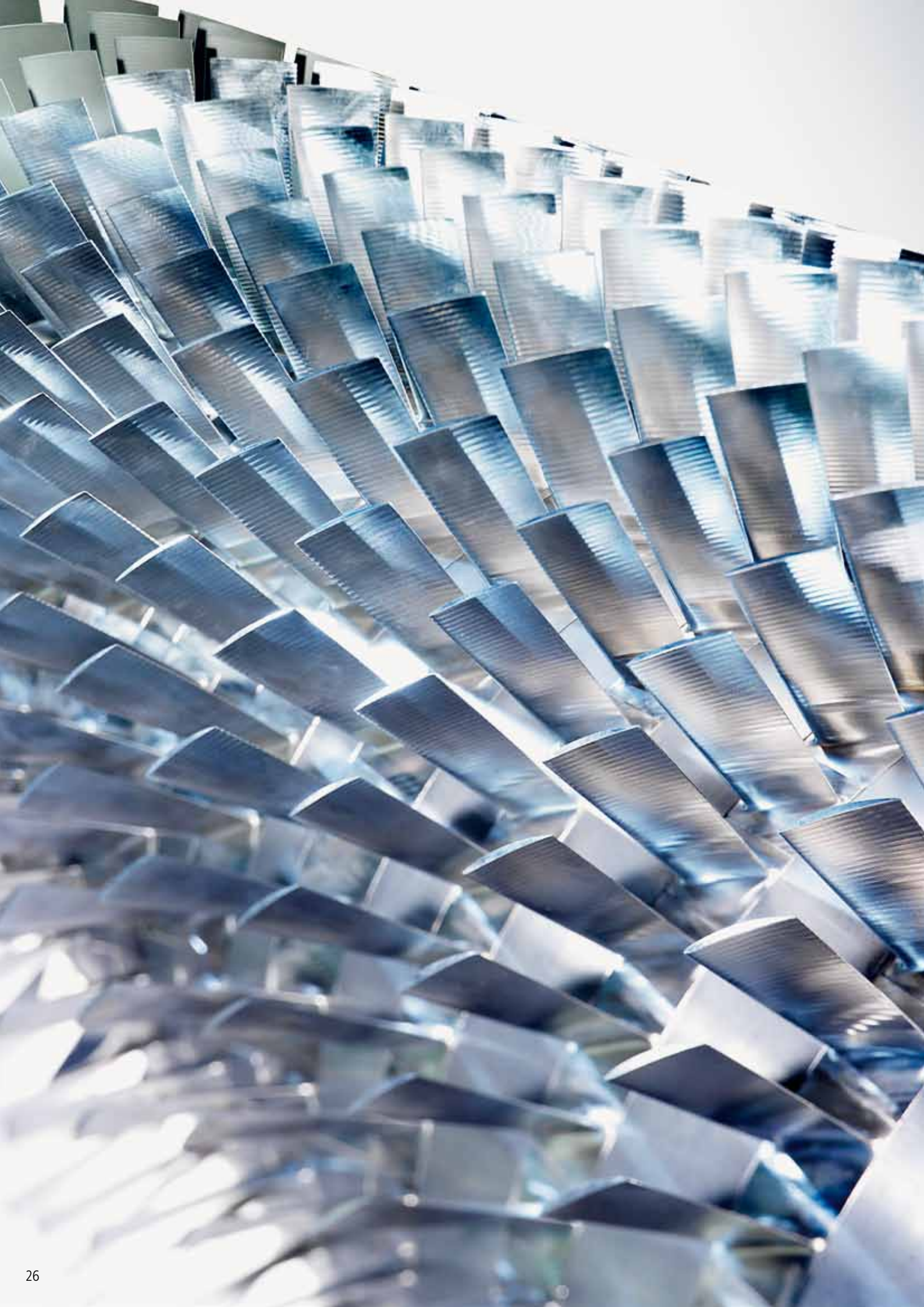
P40 – P320

Aluminium oxide
Flap wheel
Hand tools

Blending/Polishing

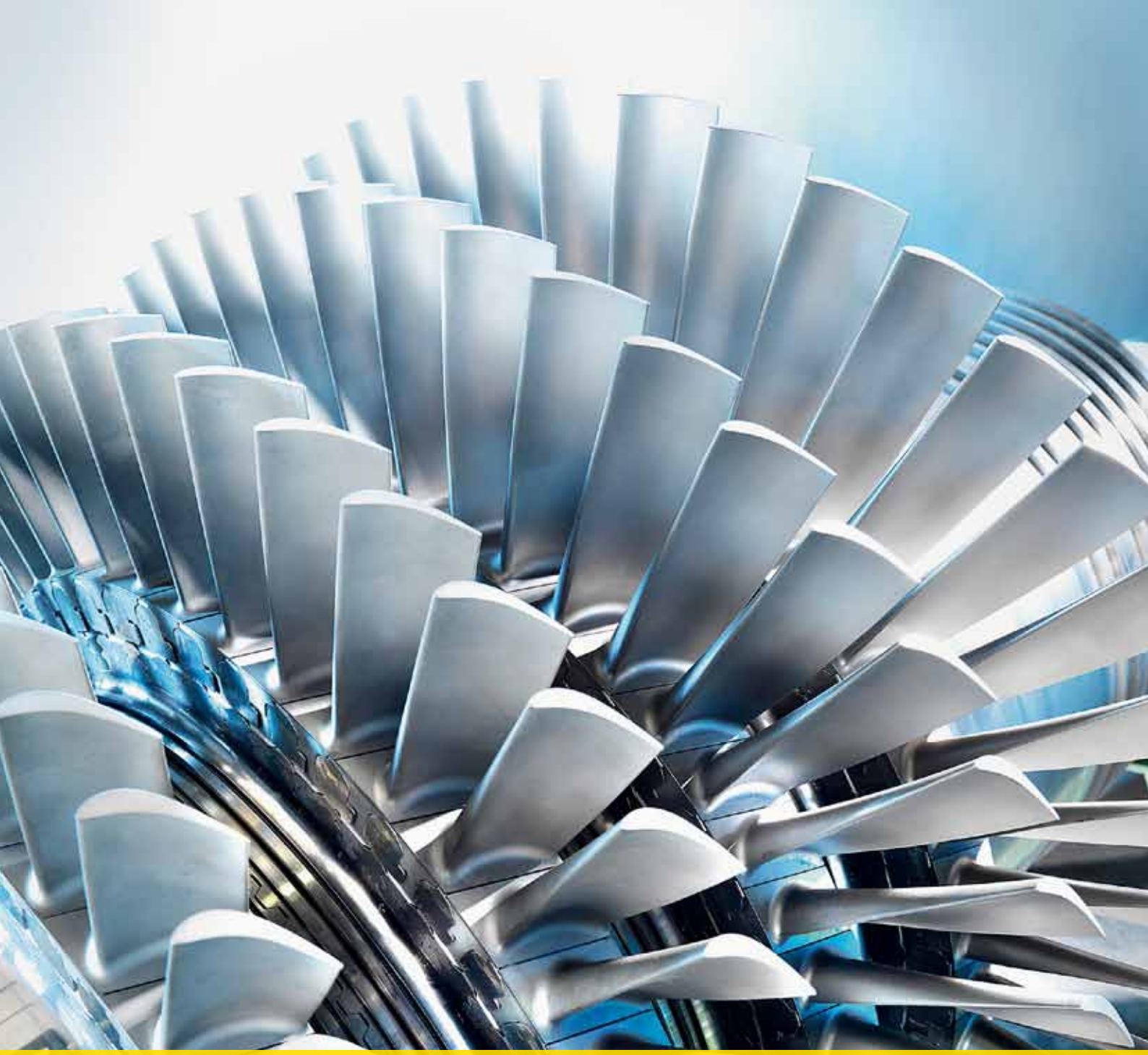
Casing
low
flexible

Stainless Steel, Superalloys
no
no



Coated abrasives

Nonwoven abrasives



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