



We rank amongst the world's five leading manufacturers of abrasives.

Klingspor was founded as a family owned business.

More than

ive hundred

qualified technicians and sales representatives offer professional on-site assistance.

euros in sales during the past year.

ver thousand

items in our product range.

Every day Klingspor produces:

110,000 350,000 cutting-off wheels and grinding discs.

One hundred thousand square metres

of coated abrasives.

employees are hard at work everyday to keep our customers satisfied.

Klingspor - a world leader in sanding solutions



Good. Safe. Yellow.

Klingspor is one of the world's leading manufacturers of sanding solutions and has been setting new standards in abrasive technology for over 125 years. The company's product range comprises of more than 50,000 products that are designed to fulfill the most demanding standards of stock removal and surface finish. Klingspor embodies premium quality, innovative concepts and unwavering customer support.

Focus on the stainless steel industry

Our many years of experience as a partner to leading companies in the stainless steel sector has furnished Klingspor with a knowledge of the industry that is second to none. This extensive expertise has provided our customers with a wide range of sanding solutions that maximise production volumes and satisfy the highest quality standards.

Target Industries

Tube Polishing Industry



Hydraulic Cylinder & Ram Industry



Stainless Steel Service Centre



Tanks and Vessels Industry



Machine & Plant Industry



Wire Industry



Workpieces

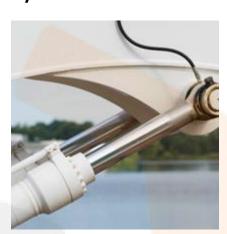
Coils



Dished Bottoms and Ends



Hydraulic Rams



Flat Sheet and Plates



Wire



Tubes



Cylinders & Rollers



Punched and Laser-Cut Parts



Machines & Applications

Cylindrical grinding



Centreless

Application:

- ► Tubes
- ► Pipes



Planetary

Application:

- ▶ Wires
- ► Elliptic tubes



Between centres

Application:

- ► Cylinders
- ► Rollers
- ► Hydraulic rams



Rotary grinding

Application:

► Dished tank bottoms and ends

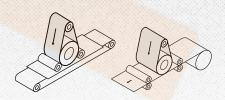


Slack of belt grinding

Application:

► Longitudinally welded tubes

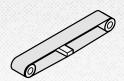
Flat grinding



Wide belt

Application:

- ► Coil
- ► Sheet



Long belt

Application:

- ► Heavy plate
- ► Sheet



Narrow belt

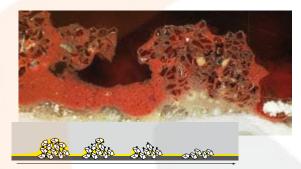
Application:

- ► Square material
- ▶ Die-cut parts
- ► Laser-cut parts

Long-Life Abrasive Belts

Compared to other grain types, abrasive belts with agglomerate grain (KULEX and NOPPEX) offer a uniform surface scratch pattern until the abrasive is completely depleted and a vastly increased service life.

KULEX

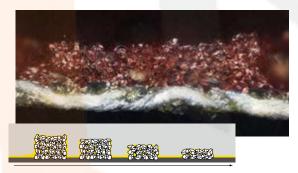


Our agglomerate products are guaranteed to deliver outstanding service life with a consistent scratch depth

Benefits:

- ► Unrivalled long-term grinding properties
- ► Consistent scratch depth
- ► Reduction of retooling times

NOPPEX



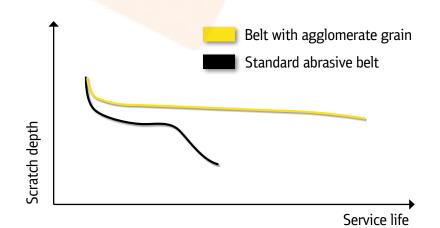
Our long-life Noppex belt with unique knob structure - perfectly suited for circular and surface grinding

Benefits:

- ► Extremely long service life
- ▶ Uniform wear pattern due to unique knob structure
- ► Highly recommended for grinding of welded tubes

Detailed view of the Noppex belt





Compared to other grain types, abrasive belts with agglomerate grain offer a uniform surface scratch pattern until the abrasive is completely depleted and a vastly increased service life.

Klingspor Product Range

				(Q)			1				
		itres &	t		8						
Туре	Centreless	Between centres	Slack of belt	Planetary	Rotary	Wide belt	Long belt	Narrow belt	Grain	Backing	Feature
CS 910 Y	х	х		х	х	x	x	х	Ceramic	Y-cloth	Multibond
CS 912 Y	х	х		х	х	x	x	х	Ceramic	Y-cloth	•
CS 811 Y	х	x		х	х	x	x	х	Zirconia alumina	Y-cloth	•
CS 411 Y	x	x		X	х	x	x	x	Zirconia alumina	Y-cloth	•
CS 416 Y	х	x		х	х	x	x	х	Zirconia alumina	Y-cloth	•
CS 409 Y	x	x		х	х	х	x	x	Zirconia alumina	Y-cloth	Multibond
CS 320 Y						X	х		SiC	Y-cloth	•
CS 321 X						x	х		SiC	X-cloth	•
CS 412 Y						x	x		Aluminium oxide	Y-cloth	•
CS 420 Y	x	x	x		x			x	Aluminium oxide, NOPPEX	Y-cloth	•
CS 326 Y	x	x	x	x	x	x	x	x	Aluminium oxide- agglomerate	Y-cloth	•
CS 329 Y	x	x	x	x	x	x	x	x	Aluminium oxide- agglomerate	Y-cloth	
CS 341 X	x					x	x	X	Aluminium oxide	X-cloth	•
CS 325 Y	х	x		x	x	x	x	x	SiC agglomerate	Y-cloth	•
CS 330 X	х	x				x	x	X	SiC + Cork	X-cloth	•
CS 322 X	х	x				x		X	Cork	X-cloth	•
NBS 800	х	x			х	x	x	X	Aluminium oxide	SCM	•
PS 20 F						x	х		Aluminium oxide	F-Paper	
PS 21 F						х	х		Zirconia alumina	F-Paper	
PS 24 F						х	х		SiC	F-Paper	
PS 61 F						х	х		Ceramic	F-Paper	
PS 729 F						х	х		Aluminium oxide- agglomerate	F-Paper	

Key:

Ceramic: Ceramic aluminium oxide **SiC:** Silicon carbide **♦:** Waterproof **X:** Cotton backing **Y:** Polyester backing **Multibond:** Top size coat (grind-active layer reduces temperature) **SCM:** Surface conditioning material

	١																				
Туре	24	36	40	20	09	80	100	120	150	180	220	240	280	320	360	400	200	009	800	1000	1200
CS 910 Y	•			•																	
CS 912 Y		•		•						•											
CS 811 Y	•			•																	
CS 411 Y	•	•	•	-																	
CS 416 Y	-	•		•	•	•															
CS 409 Y			•	•	-		-														
CS 320 Y	•		•		-					•											
CS 321 X							•	•	•	-			•	-			•		•		
CS 412 Y	•	•	-	•		•	•			-											
CS 420 Y								•		-				-		-					
CS 326 Y								•		-								•			
CS 329 Y								•						-				•			
CS 341 X																		•			
CS 325 Y																					
CS 330 X																					
CS 322 X																					
NBS 800																					
PS 20 F																					
PS 21 F																					
PS 24 F															•						
PS 61 F								•		•											
PS 729 F																					

Product Selection by Machine

Cylindrical Grinding

Centreless ► Tubes ► Pipes	Pre-sanding	Intermediate sanding	Final sanding	Finishing	Product	Grain type	Grit size	Required pressure	Lifetime	Finish	Dry use	
					CS 910 Y	Ceramic (Multibond)	P24-80				•	
					CS 912 Y	Ceramic	P36-180			-		
					CS 409 Y	Zirc. (Multibond)	P36-120			-	•	
					CS 811 Y	Zirc.	P24-80				•	
	700				CS 411 Y	Zirc.	P24-120				•	
/ /9					CS 416 Y	Zirc. (Open Coat)	P24-120				•	
					CS 326 Y	Al. Oxide Agglom.	P60-800				•	
					CS 329 Y	Al. Oxide Agglom.	P80-600				•	
					CS 420 Y	Al. Oxide NOPPEX	P120-400					
					CS 341 X	Al. Oxide	P60-600				•	T
					CS 325 Y	SiC Agglom.	P80-1200				•	
				4,	CS 330 X	SiC+Cork	P220-800				•	
					CS 322 X	Cork	Polish fine					
						COTK	1 011511 11110	_				
Rotwoon contros		<u>8</u>			NBS 800	SCM	Coarse to fine				•	
Between centres ► Cylinders ► Rollers ► Hydraulic rams	Pre-sanding	ntermediate sanding	inal sanding	inishing	NBS 800	SCM	Coarse to fine				Ory use	
► Cylinders ► Rollers	Pre-sanding	Intermediate sanding	Final sanding	Finishing	Product	Grain type	Coarse to fine	Required pressure		Finish	Dry use	
► Cylinders ► Rollers	Pre-sanding	Intermediate sanding	Final sanding	Finishing	NBS 800	Geramic (Multibond)	Coarse to fine	Required pressure	Lifetime	Finish	Dry use	
► Cylinders ► Rollers	Pre-sanding	Intermediate sanding	Final sanding	Finishing	NBS 800 tippod CS 910 Y CS 912 Y	SCM But a series of the series of the series (Multibond) Ceramic (Ceramic School Sch	Coarse to fine 82 82 82 82 84 84 85 86 86 86 86 86 86 86 86 86	Required pressure	Lifetime	Finish		
► Cylinders ► Rollers	Pre-sanding	Intermediate sanding	Final sanding	Finishing	NBS 800 CS 910 Y CS 912 Y CS 409 Y	SCM addy day Ceramic (Multibond) Ceramic Zirc. (Multibond)	P24-80 P36-180 P36-120	Required pressure	Lifetime	E Finish		
► Cylinders ► Rollers	Pre-sanding Pre-sanding	Intermediate sanding	Final sanding	Finishing	NBS 800 tipped CS 910 Y CS 912 Y CS 409 Y CS 811 Y	SCM But the second of the sec	P24-80 P36-120 P24-80	Required pressure		Finish	•	
► Cylinders ► Rollers	Pre-sanding	Intermediate sanding	Final sanding	Finishing	TIPPOL CS 910 Y CS 912 Y CS 409 Y CS 411 Y	SCM But A time but A	P24-80 P36-120 P24-80 P24-120	Required pressure	Lifetime	E Finish	•	
► Cylinders ► Rollers	Pre-sanding Pre-sanding	Intermediate sanding	Final sanding	Finishing	CS 910 Y CS 912 Y CS 409 Y CS 411 Y CS 416 Y	SCM But the second of the sec	P24-80 P36-120 P24-120 P24-120	Required pressure	Lifetime Lifetime	Finish	•	
► Cylinders ► Rollers	Pre-sanding	Intermediate sanding	Final sanding	Finishing	TIPPOL CS 910 Y CS 912 Y CS 409 Y CS 411 Y CS 411 Y CS 416 Y CS 326 Y	SCM But the series of the ser	P24-80 P36-120 P24-80 P24-120 P60-800	Required pressure	Lifetime	E E	•	
► Cylinders ► Rollers	Pre-sanding Pre-sanding	Intermediate sanding	Final sanding	Finishing	CS 910 Y CS 912 Y CS 409 Y CS 411 Y CS 416 Y CS 326 Y CS 329 Y	SCM But the second of the sec	P24-80 P36-180 P24-80 P24-120 P24-120 P60-800 P80-600	Required pressure		Finish	•	
► Cylinders ► Rollers	Pre-sanding	Intermediate sanding	Final sanding	Finishing	CS 910 Y CS 912 Y CS 409 Y CS 411 Y CS 416 Y CS 326 Y CS 420 Y	SCM BLA Ceramic (Multibond) Ceramic Zirc. (Multibond) Zirc. Zirc. Zirc. Zirc. (Open Coat) Al. Oxide Agglom. Al. Oxide Agglom. Al. Oxide NOPPEX	P24-80 P36-120 P24-80 P24-120 P24-120 P60-800 P80-600 P120-400	Required pressure	Lifetime	Einish	•	
► Cylinders ► Rollers	Pre-sanding Pre-sanding	Intermediate sanding	Final sanding	Finishing	CS 910 Y CS 912 Y CS 409 Y CS 411 Y CS 416 Y CS 326 Y CS 329 Y CS 325 Y	SCM But the second of the sec	P24-80 P36-180 P24-80 P24-120 P24-120 P60-800 P80-600 P120-400 P80-1200	Required pressure		Finish	•	
► Cylinders ► Rollers	Pre-sanding	Intermediate sanding	Final sanding	Finishing	CS 910 Y CS 912 Y CS 409 Y CS 411 Y CS 416 Y CS 326 Y CS 420 Y	SCM BLA Ceramic (Multibond) Ceramic Zirc. (Multibond) Zirc. Zirc. Zirc. Zirc. (Open Coat) Al. Oxide Agglom. Al. Oxide Agglom. Al. Oxide NOPPEX	P24-80 P36-120 P24-80 P24-120 P24-120 P60-800 P80-600 P120-400	Required pressure	Lifetime	Einish	•	

Ceramic: Ceramic aluminium oxide SiC: Silicon carbide Zirc: Zirconia alumina

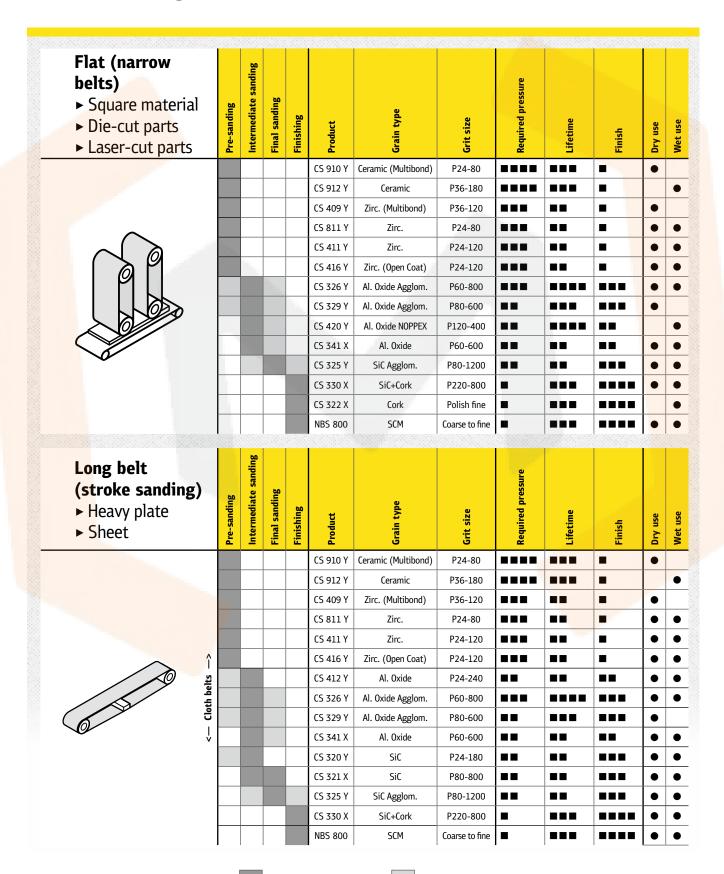
= ideal application

10 Al. Oxide: Aluminium oxide Agglom: Agglomerates SCM: Surface Conditioning Material

Slack of belt ► Longitudinally welded tubes	Pre-sanding	Intermediate sanding	Final sanding	Finishing	Product	Grain type	Grit size	Required pressure	Lifetime	Finish	Dry use	Wet use
					<u> </u>		P120-400					•
					<u> </u>							•
					CS 329 Y	Al. Oxide Agglom.	P80-600					
Planetary ► Wires ► Elliptic tubes	Pre-sanding	Intermediate sanding	Final sanding	Finishing	Product	Grain type	Grit size	Required pressure	Lifetime	Finish	Dry use	Wet use
					CS 910 Y	Ceramic (Multibond)	P24-80			-	•	
					CS 912 Y	Ceramic	P36-180			•		•
					CS 409 Y	Zirc. (Multibond)	P36-120				•	
					CS 811 Y	Zirc.	P24-80		==	-	•	•
					CS 411 Y	Zirc.	P24-120			•	•	•
					CS 416 Y	Zirc. (Open Coat)	P24-120			•	•	•
					-	Al. Oxide Agglom.	P60-800				•	•
					<u> </u>		P80-600				•	
	l 				CS 325 Y	SiC Agglom.	P80-1200					
Rotary ► Dished tank bottoms and ends	Pre-sanding	Intermediate sanding	Final sanding	Finishing	Product	Grain type	Grit size	Required pressure	Lifetime	Finish	Dry use	Wet use
					CS 910 Y	Ceramic (Multibond)	P24-80			-	•	
					CS 912 Y	Ceramic	P36-180		===	-		•
	CS 420 Y Al. Oxide Agglom. P60-800	•										
1.19					CS 811 Y	Zirc.	P24-80			•	•	•
$\prod \bigcup \bigcup$					CS 411 Y	Zirc.	P24-120			-	•	•
					CS 416 Y	Zirc. (Open Coat)	P24-120			•	•	•
					 		P60-800				•	•
					<u> </u>	Al. Oxide Agglom.	P80-600	==			•	
					CS 420 Y		P120-400	==			•	•
					CS 325 Y	SiC Agglom.	P80-1200	==			•	•
					NBS 800	SCM	Coarse to fine				•	•

Product Selection by Machine

Flat Grinding



Long belt (stroke sanding ► Heavy plate ► Sheet	g)	Pre-sanding	Intermediate sanding	Final sanding	Finishing	Product	Grain type	Grit size	Required pressure	Lifetime	Finish	Dry use	Wat usa
	î					PS 21 F	Zirc.	P40-400				•	
						PS 61 F	Ceramic	P60-280				•	
	Paper belts					PS 20 F	Al. Oxide	P60-400				•	
						PS 729 F	Al. Oxide Agglom.	P120-400				•	
	1		32.70	de la constante de la constant	1000	PS 24 F	SiC	P80-800				•	
Wide belt ► Coil ► Sheet		Pre-sanding	Intermediate sanding	Final sanding	Finishing	Product	Grain type	Grit size	Required pressure	Lifetime	Finish	Dry use	Wetuse
						CS 910 Y	Ceramic (Multibond)	P24-80				•	
						CS 912 Y	Ceramic	P36-180					•
	- 1					CS 409 Y	Zirc. (Multibond)	P36-120			•	•	
						CS 811 Y	Zirc.	P24-80			•	•	•
\sim	. 1					CS 411 Y	Zirc.	P24-120			-	•	•
1, A ~	î					CS 416 Y	Zirc. (Open Coat)	P24-120				•	•
						CS 412 Y	Al. Oxide	P24-240				•	•
(0)	Cloth belts					CS 326 Y	Al. Oxide Agglom.	P60-800				•	•
						CS 329 Y	Al. Oxide Agglom.	P80-600				•	
	î					CS 341 X	Al. Oxide	P60-600				•	•
						CS 320 Y	SiC	P24-180				•	•
						CS 321 X	SiC	P80-800				•	•
110						CS 325 Y	SiC Agglom.	P80-1200				•	•
						CS 330 X	SiC+Cork	P220-800				•	•
						CS 322 X	Cork	Polish fine					•
						NBS 800	SCM	Coarse to fine				•	•
~ ~	î					PS 21 F	Zirc.	P40-400				•	L
						PS 61 F	Ceramic	P60-280				•	
	Paper belts					PS 20 F	Al. Oxide	P60-400				•	
						PS 729 F	Al. Oxide Agglom.	P120-400				•	
	î					PS 24 F	SiC	P80-800				•	

Logistics and Delivery

Delivering operational reliability worldwide

Operational reliability starts with the availability of the resources. Our vast warehouse and elaborate logistics concept have put us in the unique position to make delivery to customers around the globe within 4 weeks. In most cases, delivery times are even shorter than that.



Highly advanced logistics centre

All processes taking place at our logistics centre are optimised to minimise the time that will pass between the receipt of the order and its shipping. This optimisation, combined with our extensive raw material warehouse and high delivery capacity, makes it possible for us to prevent belt downtime for our customers. Better still, customers enjoy the added benefit of markedly reducing their own stockpiling costs.

Shipping and handling

All belts are packed with utmost care and ship in special premium packaging. Our packaging ensures that the products are reliably protected from mechanical damage and climatic influences and that they will arrive in perfect condition.

Open to custom requests

Service is at the centre of everything we do. Our standard is to satisfy the requirements of our customers in a quick and efficient manner.



Service that goes above and beyond

As a long-term partner of the industry's principal panel board producers, our job does not end when we ship our belts to the customers. Instead, our service is all-embracing and extends from the initial consultation to aftersales service. Our tightly woven service network allows us to respond quickly no matter where our customers are in the world.



Competent consulting

There is a solution to any requirement. Our product specialists are happy to help you find the belt solution that is right for your specific application - by email, over the phone or in person at your premises. This allows you to take full advantage of our profound industry knowledge and the extensive experience our team has gained over many years.

Our definition
of all-inclusive
service also includes
training our customers in
a way that enables them to
use our products in the most
efficient way.

In-depth training

Whether you need guidance on setting up a system for a new type of belt, or require a basic training seminar on the topic of storage and handling, we offer training at our facility in Worksop or at customer premises in line with your personal requirements and exact specifications.

Global service

Spanning the globe, our service network boasts sales organisations in 39 countries worldwide. This expansive network allows us to remain where our customers are and speedily respond to any request they may have.



