

TECHNICAL INFORMATION AND PRODUCT INFORMATION

LUKAS abrasive caps and mandrels

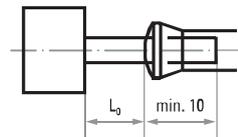
Our abrasive caps and sleeves consist of high-quality abrasive cloth and are manufactured to fit perfectly on our corresponding mandrels. We offer a large assortment of tools with the corresponding mandrel for various applications.

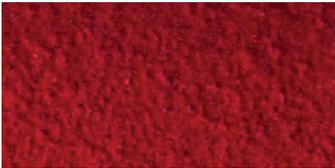
Application examples:

- Fine and ultra-fine grinding work, especially in hard-to-reach areas
- Machining in tool- and mouldmaking industry as well as pattern construction

PERMISSIBLE SPEEDS

The maximum permissible speeds indicated in the respective table of abrasive cap mandrels apply for a maximum overhang length of 15 mm. The maximum permissible speed must be calculated separately for other overhang lengths!



ABRASIVE CAP CERAMIC	ABRASIVE CAP SPECIAL
★★★	★★☆
	
<p>Self-sharpening ceramic grain for machining the most challenging materials. Hardened and wear-resistant steels, titanium alloys, weld seams and hard coatings are no longer a problem with this grain.</p>	<p>Special quality for the machining of corrosion and heat-resistant steels in the tool- and mouldmaking industry as well as for the universal machining of plastics, aluminium and non-ferrous metals. The surface layer with active abrasive additives enables enhanced stock removal rate and a longer tool life.</p>

GRINDING AND POLISHING
(with flexible tools)

THE GRINDING TOOL WITH SELF-SHARPENING EFFECT

GRIND LONGER ON THE HARDEST METALS WITH THE LUKAS CERAMIC ABRASIVE CAP



Whether tool steel, cast steel or titanium alloys – an increasing amount of extremely hard and tough metals are machined in industry. With the ceramic abrasive cap, a tool for straight grinders is now available that makes machining smaller parts and deburring extremely easy. An extra-long tool life is an added bonus thanks to the self-sharpening effect.

These abrasive caps are perfect for grinding uneven surfaces, machining small parts, deburring and regrinding small radii. The abrasive caps can even be used for stainless steel because they generate little heat during grinding.

SELF-SHARPENING EFFECT REDUCES TOOL COSTS

Thanks to self-sharpening, Ceramic abrasive caps achieve a tool life many times that of ordinary caps. Tool changes are required much less frequently, thus reducing tool costs.

NO MORE GLAZING

The grinding particles embedded in a resin matrix break off when worn and make way for new particles with sharp cutting edges. The dulling known as “glazing” familiar with other grinding tools does not occur when machining hard materials. As a result, the Ceramic abrasive cap continues to work like new despite wear.

4 DIFFERENT
SHAPES
AVAILABLE



**AN ALL-ROUND TOOL
FOR DEBURRING, GRINDING,
BEVELLING AND REGRINDING**

MAXIMUM CUTTING PERFORMANCE

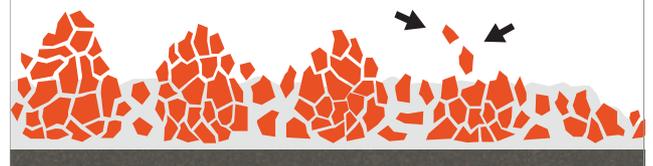
The abrasive caps with ceramic grain were developed for machining the most demanding materials. Hardened and wear-resistant steels, titanium alloys, weld seams and hard coatings are no longer a problem when using these abrasive caps. Due to its self-sharpening effect, this aggressive grinding behaviour is retained for a very long time.

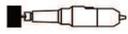
THE TROUBLESHOOTER FOR MACHINING METAL

The Ceramic abrasive caps represent a valuable addition as a tool for all industries in which hard metals are machined. These include the tool and mould industries as well as demanding mechanical and steel engineering and also the aerospace industry.

THE SELF-SHARPENING EFFECT

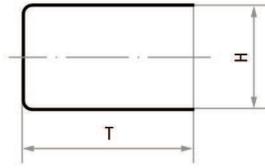
Worn grinding particles break off, exposing new particles with sharp cutting edges. That's why the abrasive cap remains as sharp as new for a long time.





SK Ceramic abrasive caps NEW

- self-sharpening
- for the hardest materials
- exceptionally long tool life
- precise fit
- also for stainless steel



★★★

Product number	Description	Shapes	Grit	H mm	T mm	Pack contains
A21120052080	SKWR 0511		Ceramic 80	5	11	100
A21120052150	SKWR 0511		Ceramic 150	5	11	100
A21120072080	SKWR 0713		Ceramic 80	7	13	100
A21120072150	SKWR 0713		Ceramic 150	7	13	100
A21120102080	SKWR 1015		Ceramic 80	10	15	100
A21120102150	SKWR 1015		Ceramic 150	10	15	100
A21120132080	SKWR 1319		Ceramic 80	13	19	100
A21120132150	SKWR 1319		Ceramic 150	13	19	100
A21120162080	SKWR 1626		Ceramic 80	16	26	100
A21120162150	SKWR 1626		Ceramic 150	16	26	100
A2112051080	SKKE 0515		Ceramic 80	5	15	100
A2112051150	SKKE 0515		Ceramic 150	5	15	100
A2112112080	SKKE 1125		Ceramic 80	11	25	100
A2112112150	SKKE 1125		Ceramic 150	11	25	100
A2112163080	SKKE 1632		Ceramic 80	16	32	100
A2112163150	SKKE 1632		Ceramic 150	16	32	100
A2112224080	SKKE 2140		Ceramic 80	21	40	100
A2112224150	SKKE 2140		Ceramic 150	21	40	100
A21120051080	SKZY 0510		Ceramic 80	5	10	100
A21120051150	SKZY 0510		Ceramic 150	5	10	100
A21120071080	SKZY 0712		Ceramic 80	7	12	100
A21120071150	SKZY 0712		Ceramic 150	7	12	100
A21120101080	SKZY 1015		Ceramic 80	10	15	100
A21120101150	SKZY 1015		Ceramic 150	10	15	100
A21120131080	SKZY 1317		Ceramic 80	13	17	100
A21120131150	SKZY 1317		Ceramic 150	13	17	100
A21120161080	SKZY 1626		Ceramic 80	16	26	100
A21120161150	SKZY 1626		Ceramic 150	16	26	100
A21120053080	SKWK 0511		Ceramic 80	5	11	100
A21120053150	SKWK 0511		Ceramic 150	5	11	100
A21120073080	SKWK 0713		Ceramic 80	7	13	100
A21120073150	SKWK 0713		Ceramic 150	7	13	100
A21120103080	SKWK 1015		Ceramic 80	10	15	100
A21120103150	SKWK 1015		Ceramic 150	10	15	100
A21120133080	SKWK 1319		Ceramic 80	13	19	100
A21120133150	SKWK 1319		Ceramic 150	13	19	100
A21120163080	SKWK 1626		Ceramic 80	16	26	100
A21120163150	SKWK 1626		Ceramic 150	16	26	100

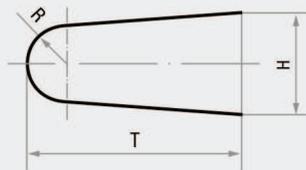
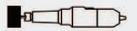
Recommended for: ● Inox/Steel ● Steel ● Cast material ● Titanium

GRINDING AND POLISHING
(with flexible tools)

THE PROBLEM-SOLVER IN TOOL- AND MOULDMAKING

ENHANCED STOCK REMOVAL RATE AND LONGER TOOL LIFE

SKS Special abrasive cap

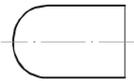
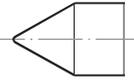


- enhanced stock removal rate using regular aluminium oxide with active abrasive surface layer
- suitable for corrosion and heat-resistant steels as well as for universal machining of plastics, non-ferrous metals and many other materials

★★☆

	Product number	Description	Shapes	Grit	H mm	T mm	Pack contains
	A21020051080	SKZYS 0510		NKS 80	5	10	100
	A21020051150	SKZYS 0510		NKS 150	5	10	100
NEW	A21020051320	SKZYS 0510		NKS 320	5	10	100
	A21020071060	SKZYS 0712		NKS 60	7	12	100
	A21020071080	SKZYS 0712		NKS 80	7	12	100
	A21020071150	SKZYS 0712		NKS 150	7	12	100
NEW	A21020071320	SKZYS 0712		NKS 320	7	12	100
	A21020101060	SKZYS 1015		NKS 60	10	15	100
	A21020101080	SKZYS 1015		NKS 80	10	15	100
	A21020101150	SKZYS 1015		NKS 150	10	15	100
NEW	A21020101320	SKZYS 1015	NKS 320	10	15	100	
NEW	A21020131060	SKZYS 1317		NKS 60	13	17	100
NEW	A21020131080	SKZYS 1317		NKS 80	13	17	100
NEW	A21020131150	SKZYS 1317		NKS 150	13	17	100
NEW	A21020131320	SKZYS 1317		NKS 320	13	17	100
NEW	A21020161060	SKZYS 1626		NKS 60	16	26	100
NEW	A21020161080	SKZYS 1626		NKS 80	16	26	100
NEW	A21020161150	SKZYS 1626	NKS 150	16	26	100	
NEW	A21020161320	SKZYS 1626	NKS 320	16	26	100	
	A21020052080	SKWRS 0511		NKS 80	5	11	100
	A21020052150	SKWRS 0511		NKS 150	5	11	100
NEW	A21020052320	SKWRS 0511		NKS 320	5	11	100

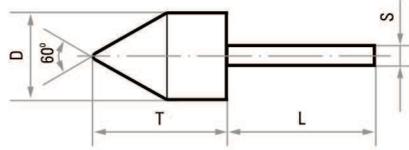
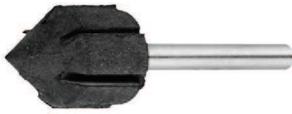
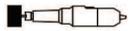
Recommended for: ● Inox/Steel ● Steel ● Aluminium ● Cast material ● Plastic/Wood

Product number	Description	Shapes	Grit	H mm	T mm	Pack contains	
A21020072060	SKWRS 0713		NKS 60	7	13	100	
A21020072080	SKWRS 0713		NKS 80	7	13	100	
A21020072150	SKWRS 0713		NKS 150	7	13	100	
A21020072320	SKWRS 0713		NKS 320	7	13	100 NEW	
A21020102060	SKWRS 1015		NKS 60	10	15	100	
A21020102080	SKWRS 1015		NKS 80	10	15	100	
A21020102150	SKWRS 1015		NKS 150	10	15	100	
A21020102320	SKWRS 1015		NKS 320	10	15	100 NEW	
A21020132060	SKWRS 1319		NKS 60	13	19	100	
A21020132080	SKWRS 1319		NKS 80	13	19	100	
A21020132150	SKWRS 1319		NKS 150	13	19	100	
A21020132320	SKWRS 1319		NKS 320	13	19	100 NEW	
A21020162060	SKWRS 1626	NKS 60	16	26	100 NEW		
A21020162080	SKWRS 1626	NKS 80	16	26	100 NEW		
A21020162150	SKWRS 1626	NKS 150	16	26	100 NEW		
A21020162320	SKWRS 1626	NKS 320	16	26	100 NEW		
A21020053060	SKWKS 0511		NKS 60	5	11	100 NEW	
A21020053080	SKWKS 0511		NKS 80	5	11	100	
A21020053150	SKWKS 0511		NKS 150	5	11	100	
A21020053320	SKWKS 0511		NKS 320	5	11	100 NEW	
A21020073060	SKWKS 0713		NKS 60	7	13	100	
A21020073080	SKWKS 0713		NKS 80	7	13	100	
A21020073150	SKWKS 0713		NKS 150	7	13	100	
A21020073320	SKWKS 0713		NKS 320	7	13	100 NEW	
A21020103060	SKWKS 1015		NKS 60	10	15	100	
A21020103080	SKWKS 1015		NKS 80	10	15	100	
A21020103150	SKWKS 1015		NKS 150	10	15	100	
A21020103320	SKWKS 1015		NKS 320	10	15	100 NEW	
A21020133060	SKWKS 1319		NKS 60	13	19	100	
A21020133080	SKWKS 1319		NKS 80	13	19	100	
A21020133150	SKWKS 1319		NKS 150	13	19	100	
A21020133320	SKWKS 1319		NKS 320	13	19	100 NEW	
A21020163060	SKWKS 1626		NKS 60	16	26	100 NEW	
A21020163080	SKWKS 1626		NKS 80	16	26	100 NEW	
A21020163150	SKWKS 1626		NKS 150	16	26	100 NEW	
A21020163320	SKWKS 1626		NKS 320	16	26	100 NEW	
Product number	Description	Shapes	Grit	H mm	T mm	~ R mm	Pack contains
A2102051080	SKKES 0515		NKS 80	5	15	2	25 NEW
A2102051150	SKKES 0515		NKS 150	5	15	2	25 NEW
A2102112060	SKKES 1125		NKS 60	11	25	5	25 NEW
A2102112080	SKKES 1125		NKS 80	11	25	5	25 NEW
A2102112150	SKKES 1125		NKS 150	11	25	5	25 NEW
A2102163060	SKKES 1632		NKS 60	16	32	7.5	25
A2102163080	SKKES 1632		NKS 80	16	32	7.5	25
A2102163150	SKKES 1632		NKS 150	16	32	7.5	25
A2102224060	SKKES 2140		NKS 60	21	40	9.5	25 NEW
A2102224080	SKKES 2140		NKS 80	21	40	9.5	25 NEW
A2102224150	SKKES 2140		NKS 150	21	40	9.5	25 NEW

GRINDING AND POLISHING
(with flexible tools)

Recommended for: ● Inox/Steel ● Steel ● Aluminium ● Cast material ● Plastic/Wood

Abrasive cap mandrel



★★☆

Product number	Description	Shapes	D mm	T mm	Shank diameter x length mm		n_{max} rpm	Pack contains
A250000511	GTZY 0510		5	10	1/8" x 25		95,000	5
A250000513	GTZY 0510		5	10	3 x 25		95,000	5
A250000713	GTZY 0712		7	12	3 x 25		65,000	5
A250001011	GTZY 1015		10	15	1/8" x 25		45,000	5
A250001013	GTZY 1015		10	15	3 x 25		45,000	5
A250001313	GTZY 1317		13	17	3 x 25		35,000	5
A250001613	GTZY 1626		16	26	3 x 25		18,000	5
A250001616	GTZY 1626	16	26	6 x 40		30,000	5	
A250000521	GTWR 0511		5	11	1/8" x 25		95,000	5
A250000523	GTWR 0511		5	11	3 x 25		95,000	5
A250000721	GTWR 0713		7	13	1/8" x 25		65,000	5
A250000723	GTWR 0713		7	13	3 x 25		65,000	5
A250001021	GTWR 1015		10	15	1/8" x 25		45,000	5
A250001023	GTWR 1015		10	15	3 x 25		45,000	5
A250001323	GTWR 1319		13	19	3 x 25		35,000	5
A250001621	GTWR 1626		16	26	1/8" x 25		18,000	5
A250001623	GTWR 1626		16	26	3 x 25		18,000	5
A250001626	GTWR 1626		16	26	6 x 40		30,000	5
A250000531	GTWK 0511		5	11	1/8" x 25		95,000	5
A250000533	GTWK 0511		5	11	3 x 25		95,000	5
A250000733	GTWK 0713		7	13	3 x 25		65,000	5
A250001033	GTWK 1015		10	15	3 x 25		45,000	5
A250001333	GTWK 1319		13	19	3 x 25		35,000	5
A250001633	GTWK 1626		16	26	3 x 25		18,000	5
A250001636	GTWK 1626		16	26	6 x 40		30,000	5
Product number	Description	Shapes	D mm	T mm	~ R mm	Shank diameter x length mm	n_{max} rpm	Pack contains
A25000511	GTKE 0515		5	15	2	1/4" x 40	95,000	5
A25000513	GTKE 0515		5	15	2	3 x 25	57,000	5
A25000516	GTKE 0515		5	15	2	6 x 40	95,000	5
A25001126	GTKE 1125		11	25	5	6 x 40	40,000	5
A25001636	GTKE 1632		16	32	7.5	6 x 40	30,000	5
A25002246	GTKE 2140		21	40	9.5	6 x 40	20,000	5



LUKAS' COMPREHENSIVE ABRASIVE CAP SET

ALWAYS HAVE THE RIGHT ABRASIVE CAP AT HAND

Be prepared for every eventuality: The LUKAS cap assortment offers you a large selection of different shapes and sizes – of course with the matching mandrel.

This set of special-quality abrasive caps contains a total of 640 caps and 23 mandrels. With its practical transport case, you can use this set whenever you need it at the workplace, in the factory or even in a model workshop. It is also suitable for testing the various shapes of LUKAS abrasive caps.

GRINDING AND POLISHING
(with flexible tools)



WS abrasive cap assortment



- consists of 640 abrasive caps and 23 mandrels
- box outer dimensions: 372 x 189 x 46 mm



Product number	Description	Quantity	Content				Pack contains
A210000065001	WS 65 NKS	50 pieces 100 per pack 50 per pack 20 per pack 10 pieces	Abrasive caps, grain NKS 150: SKKES 0515 SKWRS 0511 SKWKS 0511 SKZYS 0510 SKWRS 0713 SKWKS 0713 SKZYS 0712 SKWRS 1015 SKWKS 1015 SKZYS 1015 SKWRS 1015 SKKES 1125				1
		20 pieces 10 per pack 15 per pack	Abrasive caps, grain NKS 80: SKWKS 1015 SKWRS 1319 SKWKS 1319 SKKES 1632 SKZYS 1317 SKWRS 1626 SKWKS 1626 SKWRS 1626				
		2 per pack 1 per pack	Mandrels, shank 3 mm: GTZY 0510 GTWR 0511 GTWK 0511 GTZY 0712 GTWR 0713 GTWK 0713 GTZY 1015 GTWR 1015 GTWK 1015 GTZY 1317 GTWR 1319 GTWK 1319				
		1 per pack	Mandrels, shank 6 mm: GTKE 0515 GTKE 1125 GTWK 1626 GTWR 1626 GTKE 1632				

Recommended for: ● Inox/Steel ● Steel ● Aluminium ● Cast material ● Plastic/Wood