

TECHNICAL INFORMATION AND PRODUCT INFORMATION

Abrasive bands and mandrels from LUKAS

SBZY ABRASIVE BANDS, CYLINDRICAL SHAPE

We offer a large selection of abrasive bands and matching mandrels. They are available in many different dimensions and qualities. Abrasive bands are made of abrasive cloth which is spirally wound onto a fabric with a backing. Mounted on matching mandrels, they are used with handheld machines (straight grinders or machines with a flexible shaft). **Pages 196–199**

Application examples:

- Cleaning
- Light deburring
- Refining
- Surface and contour grinding
- Fine grinding

STZY ABRASIVE BAND MANDRELS, CYLINDRICAL SHAPE

Our mandrels are used solely for mounting our cylindrical abrasive bands. Due to the special slots in the mandrel, the abrasive bands are firmly secured as speed increases. **Page 200**

SBZY ABRASIVE BANDS, CYLINDRICAL SHAPE WITHOUT LINING

These particularly flexible abrasive bands are made of abrasive cloth. They are used on handheld machines (straight grinders or machines with flexible shafts) and are mounted on matching soft mandrels. **Page 201**

SBKE ABRASIVE BANDS, CONICAL SHAPE

Conical abrasive bands are comparable in their design and usage with the cylindrical version. The taper (sleeve shape) allows the grinding of workpieces with hard-to-reach areas. **Page 203**

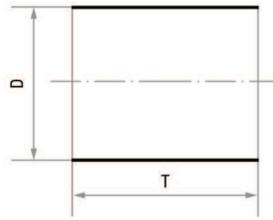
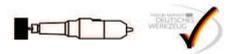
STKE ABRASIVE BAND MANDRELS, CONICAL SHAPE

Our mandrels are used solely for mounting our conical abrasive bands. Due to the special slot design, the abrasive bands are firmly secured as speed increases. **Page 203**

STWS ABRASIVE BAND MANDRELS FOR ABRASIVE BAND ROLLS

These especially soft mandrels are provided with a 19 mm bore and four keyways in order to be used with our corresponding abrasive band on handheld surface grinders (conditioning machines). **Page 204**

SBZY Ceramic abrasive band, cylindrical shape



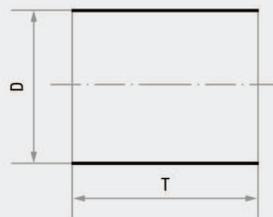
- especially robust ceramic grain for hard materials
- high stock removal rate and long tool life
- Hardened surfaces, wear-resistant steels, scale and hard coatings, titanium alloys and reinforced weld seams can be machined quickly.
- for cleaning, light deburring, refining, surface and contour grinding as well as fine grinding
- ▶ The matching mandrels can be found on **page 200**.

★★★

Product number	Description	Grit	D mm	T mm	Pack contains
A240603030040	SBZY 03030	Ceramic 40	30	30	50
A240603030060	SBZY 03030	Ceramic 60	30	30	50
A240604530040	SBZY 04530	Ceramic 40	45	30	50
A240604530060	SBZY 04530	Ceramic 60	45	30	50
A240604530080	SBZY 04530	Ceramic 80	45	30	50
A240606030040	SBZY 06030	Ceramic 40	60	30	25
A240606030060	SBZY 06030	Ceramic 60	60	30	25

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

SBZY Z-Power abrasive band, cylindrical shape



- made of zirconia alumina with active abrasive surface layer
- for cleaning, light deburring, refining, surface and contour grinding as well as fine grinding
- in combination with mandrels for use with straight grinders or machines with flexible shafts
- ▶ The matching mandrels can be found on **page 200**.

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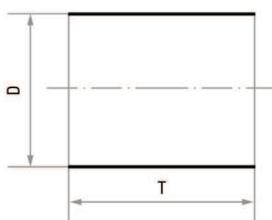
Product number	Description	Grit	D mm	T mm	Pack contains
A241203030036	SBZY 03030	Z-Power 36	30	30	50
A241203030050	SBZY 03030	Z-Power 50	30	30	50
A241203030060	SBZY 03030	Z-Power 60	30	30	50
A241203030080	SBZY 03030	Z-Power 80	30	30	50
A241204530036	SBZY 04530	Z-Power 36	45	30	50
A241204530050	SBZY 04530	Z-Power 50	45	30	50
A241204530080	SBZY 04530	Z-Power 80	45	30	50
A241206030036	SBZY 06030	Z-Power 36	60	30	25
A241206030050	SBZY 06030	Z-Power 50	60	30	25
A241206030080	SBZY 06030	Z-Power 80	60	30	25

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



SBZY zirconia alumina abrasive band, cylindrical shape

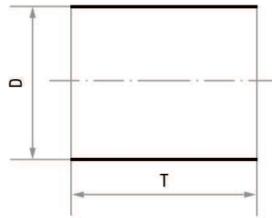
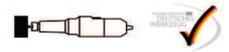
- made of abrasive cloth with zirconia alumina
- for cleaning, light deburring, refining, surface and contour grinding as well as fine grinding
- in combination with mandrels for use with straight grinders or machines with flexible shafts
- ▶ The matching mandrels can be found on **page 200**.



Product number	Description	Grit	D mm	T mm	Pack contains
A240201325050	SBZY 01325	ZK 50	13	25	50
A240201530050	SBZY 01530	ZK 50	15	30	50
A240201530060	SBZY 01530	ZK 60	15	30	50
A240201530080	SBZY 01530	ZK 80	15	30	50
A240201925036	SBZY 01925	ZK 36	19	25	50
A240201925050	SBZY 01925	ZK 50	19	25	50
A240202220036	SBZY 02220	ZK 36	22	20	50
A240202220050	SBZY 02220	ZK 50	22	20	50
A240202220060	SBZY 02220	ZK 60	22	20	50
A240202525036	SBZY 02525	ZK 36	25	25	50
A240202525050	SBZY 02525	ZK 50	25	25	50
A240202525080	SBZY 02525	ZK 80	25	25	50
A240203030036	SBZY 03030	ZK 36	30	30	50
A240203030050	SBZY 03030	ZK 50	30	30	50
A240203030060	SBZY 03030	ZK 60	30	30	50
A240203030080	SBZY 03030	ZK 80	30	30	50
A240204530036	SBZY 04530	ZK 36	45	30	50
A240204530050	SBZY 04530	ZK 50	45	30	50
A240204530060	SBZY 04530	ZK 60	45	30	50
A240204530080	SBZY 04530	ZK 80	45	30	50
A240206030036	SBZY 06030	ZK 36	60	30	50
A240206030050	SBZY 06030	ZK 50	60	30	50
A240206030060	SBZY 06030	ZK 60	60	30	50
A240206030080	SBZY 06030	ZK 80	60	30	50

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

SBZY regular aluminium oxide abrasive band, cylindrical shape



- Regular aluminium oxide has good tool life when used on structural steel and for rough grinding.
- for cleaning, light deburring, refining, surface and contour grinding as well as fine grinding
- in combination with mandrels for use with straight grinders or machines with flexible shafts
- ▶ The matching mandrels can be found on **page 200**.

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Product number	Description	Grit	D mm	T mm	Pack contains
A24000810150	SBZY 00810	NK 150	8	10	50
A240001010080	SBZY 01010	NK 80	10	10	50
A240001010150	SBZY 01010	NK 150	10	10	50
A240001010240	SBZY 01010	NK 240	10	10	50
A240001010320	SBZY 01010	NK 320	10	10	50
A240001020080	SBZY 01020	NK 80	10	20	50
A240001020150	SBZY 01020	NK 150	10	20	50
A240001020240	SBZY 01020	NK 240	10	20	50
A240001020320	SBZY 01020	NK 320	10	20	50
A240001210080	SBZY 01210	NK 80	12	10	50
A240001210150	SBZY 01210	NK 150	12	10	50
A240001213080	SBZY 01213	NK 80	12	13	50
A240001213120	SBZY 01213	NK 120	12	13	50
A240001213240	SBZY 01213	NK 240	12	13	50
A240001225080	SBZY 01225	NK 80	12	25	50
A240001225150	SBZY 01225	NK 150	12	25	50
A240001225240	SBZY 01225	NK 240	12	25	50
A240001225320	SBZY 01225	NK 320	12	25	50
A240001325080	SBZY 01325	NK 80	13	25	50
A240001325150	SBZY 01325	NK 150	13	25	50
A240001510060	SBZY 01510	NK 60	15	10	50
A240001510080	SBZY 01510	NK 80	15	10	50
A240001510150	SBZY 01510	NK 150	15	10	50
A240001510240	SBZY 01510	NK 240	15	10	50
A240001510320	SBZY 01510	NK 320	15	10	50
A240001530040	SBZY 01530	NK 40	15	30	50
A240001530050	SBZY 01530	NK 50	15	30	50
A240001530060	SBZY 01530	NK 60	15	30	50
A240001530080	SBZY 01530	NK 80	15	30	50
A240001530120	SBZY 01530	NK 120	15	30	50
A240001530150	SBZY 01530	NK 150	15	30	50
A240001530240	SBZY 01530	NK 240	15	30	50
A240001530320	SBZY 01530	NK 320	15	30	50
A240001925060	SBZY 01925	NK 60	19	25	50
A240001925080	SBZY 01925	NK 80	19	25	50
A240001925150	SBZY 01925	NK 150	19	25	50
A240002210150	SBZY 02210	NK 150	22	10	50
A240002210240	SBZY 02210	NK 240	22	10	50
A240002210320	SBZY 02210	NK 320	22	10	50
A240002220050	SBZY 02220	NK 50	22	20	50
A240002220060	SBZY 02220	NK 60	22	20	50

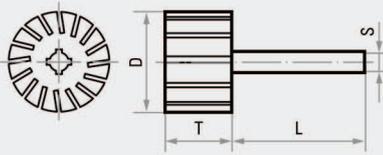
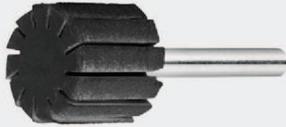
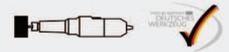
Recommended for: ● Steel ● Cast material ● Plastic/Wood ● Inox/Steel ● Aluminium ● Titanium

Product number	Description	Grit	D mm	T mm	Pack contains
A240002220080	SBZY 02220	NK 80	22	20	50
A240002220150	SBZY 02220	NK 150	22	20	50
A240002220240	SBZY 02220	NK 240	22	20	50
A240002220320	SBZY 02220	NK 320	22	20	50
A240002525040	SBZY 02525	NK 40	25	25	50
A240002525060	SBZY 02525	NK 60	25	25	50
A240002525080	SBZY 02525	NK 80	25	25	50
A240002525150	SBZY 02525	NK 150	25	25	50
A240003020040	SBZY 03020	NK 40	30	20	50
A240003020050	SBZY 03020	NK 50	30	20	50
A240003020060	SBZY 03020	NK 60	30	20	50
A240003020080	SBZY 03020	NK 80	30	20	50
A240003020150	SBZY 03020	NK 150	30	20	50
A240003020240	SBZY 03020	NK 240	30	20	50
A240003030040	SBZY 03030	NK 40	30	30	50
A240003030050	SBZY 03030	NK 50	30	30	50
A240003030060	SBZY 03030	NK 60	30	30	50
A240003030080	SBZY 03030	NK 80	30	30	50
A240003030150	SBZY 03030	NK 150	30	30	50
A240003030240	SBZY 03030	NK 240	30	30	50
A240003030320	SBZY 03030	NK 320	30	30	50
A240003825040	SBZY 03825	NK 40	38	25	50
A240003825050	SBZY 03825	NK 50	38	25	50
A240003825060	SBZY 03825	NK 60	38	25	50
A240003825080	SBZY 03825	NK 80	38	25	50
A240003825150	SBZY 03825	NK 150	38	25	50
A240004530040	SBZY 04530	NK 40	45	30	50
A240004530050	SBZY 04530	NK 50	45	30	50
A240004530060	SBZY 04530	NK 60	45	30	50
A240004530080	SBZY 04530	NK 80	45	30	50
A240004530150	SBZY 04530	NK 150	45	30	50
A240004530240	SBZY 04530	NK 240	45	30	50
A240004530320	SBZY 04530	NK 320	45	30	50
A240005125040	SBZY 05125	NK 40	51	25	50
A240005125050	SBZY 05125	NK 50	51	25	50
A240005125060	SBZY 05125	NK 60	51	25	50
A240005125080	SBZY 05125	NK 80	51	25	50
A240005125150	SBZY 05125	NK 150	51	25	50
A240006030040	SBZY 06030	NK 40	60	30	50
A240006030050	SBZY 06030	NK 50	60	30	50
A240006030060	SBZY 06030	NK 60	60	30	50
A240006030080	SBZY 06030	NK 80	60	30	50
A240006030150	SBZY 06030	NK 150	60	30	50
A240007530040	SBZY 07530	NK 40	75	30	50
A240007530060	SBZY 07530	NK 60	75	30	50
A240007530080	SBZY 07530	NK 80	75	30	50
A240007530150	SBZY 07530	NK 150	75	30	50
A240010040040	SBZY 10040	NK 40	100	40	25
A240010040060	SBZY 10040	NK 60	100	40	25
A240010040080	SBZY 10040	NK 80	100	40	25
A240010040150	SBZY 10040	NK 150	100	40	25

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

GRINDING AND POLISHING
(with flexible tools)

STZY hard abrasive band mandrel, cylindrical shape

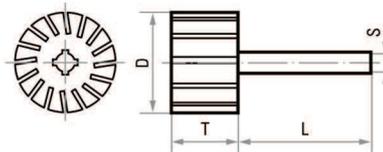
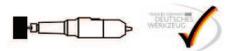


The stated maximum permissible speeds apply for a maximum overhang length L_0 of 20 mm. The maximum permissible speed must be calculated separately for other overhang lengths!

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Product number	Description	Type	D mm	T mm	S mm	L mm	n_{max} rpm	Pack contains
A2500010103	STZY 01010.03	hard	10	10	3	25	54,000	5
A2500010106	STZY 01010.06	hard	10	10	6	40	57,000	5
A2500010206	STZY 01020.06	hard	10	20	6	40	57,000	5
A2500012106	STZY 01210.06	hard	12	10	6	40	46,500	5
A2500012132	STZY 01213.02	hard	12	13	2.35	40	26,000	5
A2500012256	STZY 01225.06	hard	12	25	6	40	46,500	5
A2500013256	STZY 01325.06	hard	13	25	6	40	44,000	5
A2500015106	STZY 01510.06	hard	15	10	6	40	38,000	5
A2500015306	STZY 01530.06	hard	15	30	6	40	38,000	5
A2500019256	STZY 01925.06	hard	19	25	6	40	30,000	5
A2500022106	STZY 02210.06	hard	22	10	6	40	26,000	5
A2500022206	STZY 02220.06	hard	22	20	6	40	26,000	5
A2500025256	STZY 02525.06	hard	25	25	6	40	22,500	5
A2500030206	STZY 03020.06	hard	30	20	6	40	19,000	5
A2500030306	STZY 03030.06	hard	30	30	6	40	19,000	5
A2500038256	STZY 03825.06	hard	38	25	6	40	15,000	5
A25000453060001	STZY 04530.06	hard	45	30	6	40	13,000	5
A2500051256	STZY 05125.06	hard	51	25	6	40	11,200	5
A25000603060001	STZY 06030.06	hard	60	30	6	40	9,500	5
A2500060308	STZY 06030.08	hard	60	30	8	40	9,500	5
A25000753080001	STZY 07530.08	hard	75	30	8	40	6,500	2

STZY soft abrasive band mandrel, cylindrical shape



The stated maximum permissible speeds apply for a maximum overhang length L_0 of 20 mm. The maximum permissible speed must be calculated separately for other overhang lengths!

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Product number	Description	Type	D mm	T mm	S mm	L mm	n_{max} rpm	Pack contains
A2501008103	STZY 00810.03	soft	8	10	3	40	47,500	5
A2501012256	STZY 01225.06	soft	12	25	6	40	31,500	5
A2501015306	STZY 01530.06	soft	15	30	6	40	25,000	5
A2501022206	STZY 02220.06	soft	22	20	6	40	17,000	5
A2501030206	STZY 03020.06	soft	30	20	6	40	12,500	5
A2501030306	STZY 03030.06	soft	30	30	6	40	12,500	5
A25010453060001	STZY 04530.06	soft	45	30	6	40	13,000	5
A25010603060001	STZY 06030.06	soft	60	30	6	40	6,500	5
A25011004080001	STZY 10040.08	soft	100	40	8	40	4,000	2



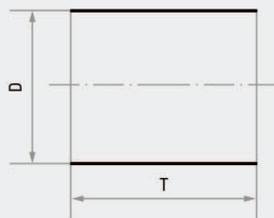
THE ABRASIVE BAND FOR COMPLEX CONTOURS

FOR FLEXIBLE USE IN COMBINATION WITH A SOFT ABRASIVE BAND MANDREL



SBZY abrasive band, cylindrical shape, without lining

- abrasive band without lining and therefore particularly flexible
- in combination with soft abrasive band mandrels for use with straight grinders or machines with flexible shafts



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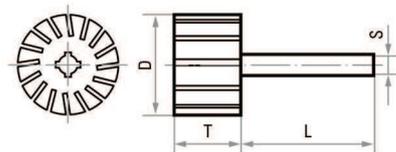
Product number	Description	Grit	D mm	T mm	Pack contains
A300003030080	SBZY 03030	NK 80	30	30	50
A300003030120	SBZY 03030	NK 120	30	30	50
A300003030150	SBZY 03030	NK 150	30	30	50
A300004530120	SBZY 04530	NK 120	45	30	50
A300004530150	SBZY 04530	NK 150	45	30	50

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



STZY soft abrasive band mandrel, cylindrical shape

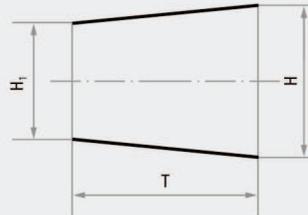
The stated maximum permissible speeds apply for a maximum overhang length L_0 of 20 mm. The maximum permissible speed must be calculated separately for other overhang lengths!



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Product number	Description	Type	D mm	T mm	S mm	L mm	n_{max} rpm	Pack contains
A2502030306	STZY 03030.06	soft	30	30	6	40	9,500	5
A2502045306	STZY 04530.06	soft	45	30	6	40	6,300	5
A2502060306	STZY 06030.06	soft	60	30	6	40	4,700	5
A2502075308	STZY 07530.08	soft	75	30	8	40	3,800	2
A2502100408	STZY 10040.08	soft	100	40	8	40	2,800	2

SBKE regular aluminium oxide abrasive band, conical shape



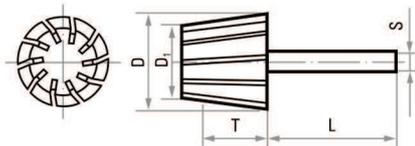
- tapered for grinding on hard-to-reach areas
- For rough grinding, regular aluminium oxide has good tool life when used on structural steel and ensures cost-effective machining.
- for cleaning, light deburring, refining, surface and contour grinding as well as fine grinding
- in combination with abrasive band mandrels for use with straight grinders or machines with flexible shafts

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Product number	Description	Grit	H mm	T mm	H ₁ mm	Pack contains
A300002063040	SBKE 02063	NK 40	20	63	14	50
A300002063060	SBKE 02063	NK 60	20	63	14	50
A300002063080	SBKE 02063	NK 80	20	63	14	50
A300002063150	SBKE 02063	NK 150	20	63	14	50
A300002930040	SBKE 02930	NK 40	29	30	22	50
A300002930050	SBKE 02930	NK 50	29	30	22	50
A300002930060	SBKE 02930	NK 60	29	30	22	50
A300002930080	SBKE 02930	NK 80	29	30	22	50
A300002930150	SBKE 02930	NK 150	29	30	22	50
A300003660040	SBKE 03660	NK 40	36	60	22	50
A300003660050	SBKE 03660	NK 50	36	60	22	50
A300003660060	SBKE 03660	NK 60	36	60	22	50
A300003660080	SBKE 03660	NK 80	36	60	22	50
A300003660150	SBKE 03660	NK 150	36	60	22	50

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

STKE hard abrasive band mandrel, conical shape



The stated maximum permissible speeds apply for a maximum overhang length L_0 of 20 mm. The maximum permissible speed must be calculated separately for other overhang lengths!

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Product number	Description	Type	D mm	T mm	S mm	D ₁ mm	L mm	n _{max} rpm	Pack contains
A2500020636	STKE 02063.06	hard	20	63	6	14	40	21,000	5
A2500029306	STKE 02930.06	hard	29	30	6	22	40	21,000	5
A2500036606	STKE 03660.06	hard	36	60	6	22	40	13,500	5

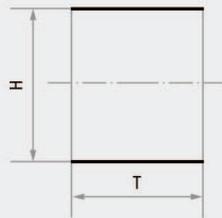
ABRASIVE BANDS ALSO FOR CONDITIONING MACHINES

MEET EVERY CHALLENGE WITH LUKAS TOOLS

SBZY abrasive band rolls



- abrasive band rolls in combination with a soft mandrel for use on conditioning machines
- For rough grinding, regular aluminium oxide has good tool life when used on structural steel and ensures cost-effective machining.
- for cleaning, light deburring, refining, surface and contour grinding as well as fine grinding



★★☆

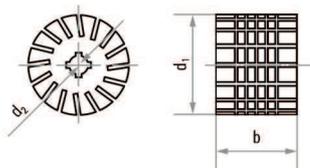
Product number	Description	Grit	H mm	T mm	Pack contains
A2400100100060	SBZY 100100	NK 60	100	100	6
A2400100100080	SBZY 100100	NK 80	100	100	6
A2400100100120	SBZY 100100	NK 120	100	100	6
A2400100100150	SBZY 100100	NK 150	100	100	6

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

GRINDING AND POLISHING (with flexible tools)



STWS soft abrasive band mandrel, cylindrical shape



The 19 mm bore has four 6 mm keyways.

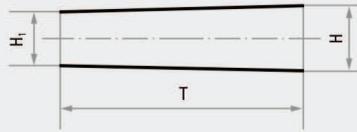
★★☆

Product number	Description	Type	d ₁ mm	b mm	Bore d ₂ mm	n _{max} rpm	Pack contains
A2502100100	STWS 100100	soft	100	100	19	2,800	1



SHKE conical abrasive sleeve

- tapered for grinding hard-to-reach areas
- For rough grinding, regular aluminium oxide has good tool life when working on structural steel and ensures cost-effective machining.
- for cleaning, light deburring, refining, surface and contour grinding as well as fine grinding
- in combination with abrasive band mandrels for use with straight grinders or machines with flexible shafts

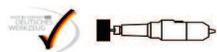


★★☆

Product number	Description	Grit	H mm	T mm	H ₁ mm	Pack contains
A2101108080	SHKE 0885	NK 80	8	85	4.5	25
A2101108150	SHKE 0885	NK 150	8	85	4.5	25
A2101158080	SHKE 1385	NK 80	13	85	9.5	25
A2101158150	SHKE 1385	NK 150	13	85	9.5	25
A2101208080	SHKE 1885	NK 80	18	85	14.5	25
A2101208150	SHKE 1885	NK 150	18	85	14.5	25
A2101258080	SHKE 2385	NK 80	23	85	19.5	25
A2101258150	SHKE 2385	NK 150	23	85	19.5	25

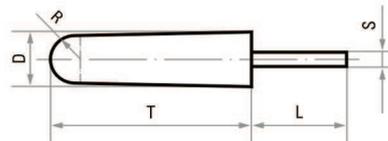
Recommended for: ● Steel ● Cast material ● Plastic/Wood ● Inox/Steel ● Aluminium ● Titanium

GRINDING AND POLISHING
(with flexible tools)



GTKE conical abrasive sleeve mandrel

To reach deep machining areas, LUKAS grinding caps with a round conical shape (pp. 211–213) can also be used on this mandrel with a head length of 85 mm in addition to abrasive sleeves.



★★☆

Product number	Description	D mm	T mm	L mm	~ R mm	Shank diameter x length mm	n _{max} rpm	Pack contains
A25001086	GTKE 0885	8	85	40	2	6 x 40	24,000	5
A25001586	GTKE 1385	13	85	40	5	6 x 40	17,000	5
A25002086	GTKE 1885	18	85	40	7.5	6 x 40	12,000	5
A25002586	GTKE 2385	23	85	40	9.5	6 x 40	10,000	5