

schreurs. Nichts als Perfektion.

Performance Line HPC Schaft- & Torus- fräser bis 55 HRC

Allrounder für Schrupp- und Schlichtoperationen

4-Schneider für hohes Zerspanvolumen

Ungleiche Teilung, innovative Beschichtung



schreurs.
PRÄZISIONSWERKZEUGE

HPC-Schaftfräser mit variabler Helix 35° / 38° und Schutzfase, Allrounder zum Schruppen und Schlichten

SPSS

h5

VARIABLE HELIX

45° PROTECTION CHAMFER

STC COATING

$\phi 6-12$
 $-0.010/-0.025$

$\phi 16-20$
 $-0.015/-0.030$

<700 N/mm²

700-1100 N/mm²

1100-1300 N/mm²

30-45 HRC

45-55 HRC

INOX

AL

CU CuZn Gold PL

TI

Best.-Nr. / Order no.	d1	L1	L2	L	D	Z	€ / St.
SPSS - 4060 - 210 - STC	6,0	13,0	21,0	60	6	4	32,30
SPSS - 4080 - 270 - STC	8,0	19,0	27,0	60	8	4	46,00
SPSS - 4100 - 320 - STC	10,0	22,0	32,0	70	10	4	60,60
SPSS - 4120 - 380 - STC	12,0	26,0	38,0	80	12	4	71,20
SPSS - 4160 - 450 - STC	16,0	32,0	45,0	90	16	4	126,10
SPSS - 4200 - 550 - STC	20,0	38,0	55,0	110	20	4	189,10

HPC-Schaftfräser mit ungleicher Teilung, Freilänge 5xD und Schneidlänge 1,5xD, Allrounder zum Schruppen und Schlichten

SPSN

h5

STC COATING

42° HELIX

UNEVEN PITCH

$\phi 1-5$
15° SHANK ANGLE

$\phi 1-5$
 $-0.000/-0.010$

$\phi 6-20$
 $-0.010/-0.025$

<700 N/mm²

700-1100 N/mm²

1100-1300 N/mm²

30-45 HRC

45-55 HRC

INOX

AL

CU CuZn Gold PL

TI

Best.-Nr. / Order no.	d1	L1	L2	L	D	Z	€ / St.
SPSN - 4010 - 050 - STC	1,0	1,5	5,0	50	4	4	28,70
SPSN - 4015 - 080 - STC	1,5	2,5	8,0	50	4	4	28,70
SPSN - 4020 - 100 - STC	2,0	3,0	10,0	50	4	4	29,50
SPSN - 4025 - 120 - STC	2,5	4,0	12,0	50	4	4	29,50
SPSN - 4030 - 160 - STC	3,0	4,5	16,0	60	6	4	33,20
SPSN - 4040 - 200 - STC	4,0	6,0	20,0	60	6	4	33,20
SPSN - 4050 - 250 - STC	5,0	7,5	25,0	65	6	4	35,30
SPSN - 4060 - 300 - STC	6,0	9,0	30,0	70	6	4	37,70
SPSN - 4080 - 400 - STC	8,0	12,0	40,0	80	8	4	47,90
SPSN - 4100 - 500 - STC	10,0	15,0	50,0	100	10	4	68,60
SPSN - 4120 - 600 - STC	12,0	18,0	60,0	110	12	4	84,80
SPSN - 4160 - 800 - STC	16,0	24,0	80,0	130	16	4	158,00
SPSN - 4200 - 1000 - STC	20,0	30,0	100,0	160	20	4	242,00

HPC-Schaftfräser mit ungleicher Teilung und Schutzfaser, diverse Schneidlängen, Allrounder zum Schruppen und Schlichten

SPSL

h5

STC COATING

42° HELIX

UNEVEN PITCH

15° SHANK ANGLE

45° PROTECTION CHAMFER

$\phi 1.5$
-0.010/-0.025

$\phi 6-12$
-0.010/-0.025

$\phi 16-20$
-0.015/-0.030

<700 N/mm²

700-1100 N/mm²

1100-1300 N/mm²

30-45 HRC

45-55 HRC

INOX

AL

CU CuZn Gold PL

TI

Best.-Nr. / Order no.	d1	L1	L	D	Z	€/ St.
SPSL - 4010 - 035 - STC	1,0	3,5	50	4	4	28,20
SPSL - 4010 - 050 - STC		5,0				30,90
SPSL - 4020 - 060 - STC	2,0	6,0	50	4	4	27,40
SPSL - 4020 - 080 - STC		8,0				28,20
SPSL - 4020 - 100 - STC		10,0				30,90
SPSL - 4025 - 080 - STC	2,5	8,0	50	4	4	27,40
SPSL - 4025 - 100 - STC		10,0				30,90
SPSL - 4025 - 120 - STC		12,0				33,00
SPSL - 4030 - 100 - STC	3,0	10,0	60	6	4	29,10
SPSL - 4030 - 120 - STC		12,0				30,10
SPSL - 4030 - 150 - STC		15,0				33,30
SPSL - 4040 - 120 - STC	4,0	12,0	60	6	4	29,10
SPSL - 4040 - 160 - STC		16,0				30,10
SPSL - 4040 - 200 - STC		20,0				36,40
SPSL - 4050 - 150 - STC	5,0	15,0	60	6	4	29,90
SPSL - 4050 - 200 - STC		20,0				30,80
SPSL - 4050 - 250 - STC		25,0				36,40
SPSL - 4060 - 180 - STC	6,0	18,0	65	6	4	32,00
SPSL - 4060 - 250 - STC		25,0				34,90
SPSL - 4060 - 300 - STC		30,0				38,90
SPSL - 4080 - 240 - STC	8,0	24,0	70	8	4	49,10
SPSL - 4080 - 300 - STC		30,0				50,90
SPSL - 4080 - 400 - STC		40,0				58,40
SPSL - 4100 - 300 - STC	10,0	30,0	80	10	4	66,30
SPSL - 4100 - 400 - STC		40,0				69,40
SPSL - 4100 - 500 - STC		50,0				72,40
SPSL - 4120 - 360 - STC	12,0	36,0	90	12	4	77,80
SPSL - 4120 - 500 - STC		50,0				80,20
SPSL - 4120 - 600 - STC		60,0				84,10
SPSL - 4160 - 500 - STC	16,0	50,0	110	16	4	155,50
SPSL - 4160 - 700 - STC		70,0				178,30
SPSL - 4160 - 900 - STC		90,0				231,60
SPSL - 4200 - 600 - STC	20,0	60,0	120	20	4	199,90
SPSL - 4200 - 800 - STC		80,0				284,40
SPSL - 4200 - 1000 - STC		100,0				316,30

HPC-Torusfräser mit ungleicher Teilung, Freilänge 5xD und Schneidlänge 1,5xD, diverse Radien, Allrounder zum Schruppen und Schlichten

SPRN

h5

STC COATING

42° HELIX

UNEVEN PITCH

15° SHANK ANGLE

ER

$\phi 1-5$
 $-0.000/-0.010$

$\phi 6-12$
 $-0.005/-0.015$

$\phi 16-20$
 $-0.010/-0.020$

$R0.1-0.5$
ER
 $\pm 0,005$

$R1-1.5$
ER
 $\pm 0,010$

$R2-5$
ER
 $\pm 0,015$

<700 N/mm²

700-1100 N/mm²

1100-1300 N/mm²

30-45 HRC

45-55 HRC

INOX

AL

CU CuZn Gold PL

TI

Best.-Nr. / Order no.	d1	ER	L1	L2	L	D	Z	€ / St.
SPRN - 4010 - R001 - 050 - STC	1,0	0,1	1,5	5,0	60	4	4	32,50
SPRN - 4020 - R001 - 100 - STC	2,0	0,1	3,0	10,0	60	4	4	32,50
SPRN - 4020 - R002 - 100 - STC		0,2						32,50
SPRN - 4030 - R002 - 150 - STC	3,0	0,2	4,5	15,0	65	6	4	39,60
SPRN - 4030 - R005 - 150 - STC		0,5						39,60
SPRN - 4040 - R002 - 200 - STC	4,0	0,2	6,0	20,0	70	6	4	41,10
SPRN - 4040 - R005 - 200 - STC		0,5						41,10
SPRN - 4040 - R010 - 200 - STC		1,0						41,10
SPRN - 4050 - R002 - 250 - STC	5,0	0,2	7,5	25,0	70	6	4	43,80
SPRN - 4050 - R005 - 250 - STC		0,5						43,80
SPRN - 4050 - R010 - 250 - STC		1,0						43,80
SPRN - 4060 - R003 - 300 - STC	6,0	0,3	9,0	30,0	70	6	4	46,70
SPRN - 4060 - R005 - 300 - STC		0,5						46,70
SPRN - 4060 - R010 - 300 - STC		1,0						43,60
SPRN - 4060 - R015 - 300 - STC		1,5						43,60
SPRN - 4080 - R003 - 400 - STC	8,0	0,3	12,0	40,0	80	8	4	52,60
SPRN - 4080 - R005 - 400 - STC		0,5						52,60
SPRN - 4080 - R010 - 400 - STC		1,0						52,60
SPRN - 4080 - R015 - 400 - STC		1,5						52,60
SPRN - 4080 - R020 - 400 - STC		2,0						52,60
SPRN - 4100 - R003 - 500 - STC	10,0	0,3	15,0	50,0	100	10	4	79,30
SPRN - 4100 - R005 - 500 - STC		0,5						79,30
SPRN - 4100 - R010 - 500 - STC		1,0						79,30
SPRN - 4100 - R015 - 500 - STC		1,5						79,30
SPRN - 4100 - R020 - 500 - STC		2,0						79,30
SPRN - 4120 - R003 - 600 - STC	12,0	0,3	18,0	60,0	110	12	4	91,40
SPRN - 4120 - R005 - 600 - STC		0,5						91,40
SPRN - 4120 - R010 - 600 - STC		1,0						91,40
SPRN - 4120 - R015 - 600 - STC		1,5						91,40
SPRN - 4120 - R020 - 600 - STC		2,0						91,40
SPRN - 4120 - R025 - 600 - STC		2,5						91,40
SPRN - 4120 - R030 - 600 - STC	3,0	91,40						

4

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HPC-Torusfräser mit ungleicher Teilung, Freilänge 5xD und Schneidlänge 1,5xD, diverse Radien, Allrounder zum Schruppen und Schlichten

SPRN

h5

STC COATING

42° HELIX

UNEVEN PITCH

15° SHANK ANGLE

ER

$\phi 1.5$
-0.000/-0.010

$\phi 6-12$
-0.005/-0.015

$\phi 16-20$
-0.010/-0.020

$R0.1-0.5$
ER
± 0,005

$R1-1.5$
ER
± 0,010

$R2-5$
ER
± 0,015

<700 N/mm²

700-1100 N/mm²

1100-1300 N/mm²

30-45 HRC

45-55 HRC

INOX

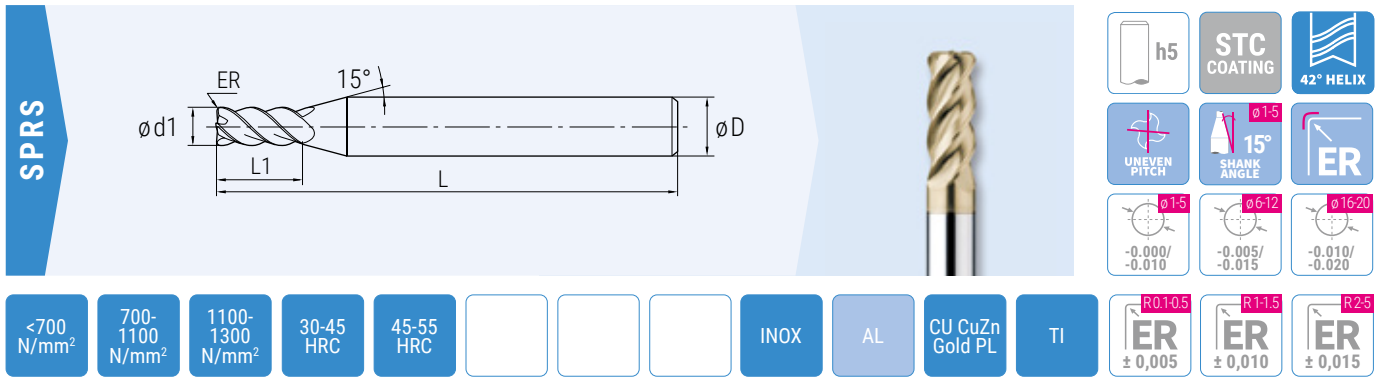
AL

CU CuZn Gold PL

TI

Best.-Nr. / Order no.	d1	ER	L1	L2	L	D	Z	€/ St.
SPRN - 4160 - R005 - 800 - STC	16,0	0,5	24,0	80,0	130	16	4	160,90
SPRN - 4160 - R010 - 800 - STC		1,0						160,90
SPRN - 4160 - R015 - 800 - STC		1,5						160,90
SPRN - 4160 - R020 - 800 - STC		2,0						160,90
SPRN - 4160 - R030 - 800 - STC		3,0						160,90
SPRN - 4200 - R005 - 1000 - STC	20,0	0,5	30,0	100,0	150	20	4	251,60
SPRN - 4200 - R010 - 1000 - STC		1,0						251,60
SPRN - 4200 - R015 - 1000 - STC		1,5						251,60
SPRN - 4200 - R020 - 1000 - STC		2,0						251,60
SPRN - 4200 - R030 - 1000 - STC		3,0						251,60
SPRN - 4200 - R050 - 1000 - STC		5,0						251,60

HPC-Torusfräser mit ungleicher Teilung, diverse Radien, Allrounder zum Schruppen und Schlichten



<700 N/mm²
700-1100 N/mm²
1100-1300 N/mm²
30-45 HRC
45-55 HRC
INOX
AL
CU CuZn Gold PL
TI

h5
STC COATING
42° HELIX

UNEVEN PITCH
15° SWAMP ANGLE
ER

±0.00/-0.010
±0.005/-0.015
±0.010/-0.020

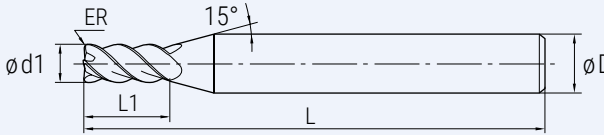
R0.1-0.5
R1-1.5
R2-5


ER ±0,005
ER ±0,010
ER ±0,015

Best.-Nr. / Order no.	d1	ER	L1	L	D	Z	€ / St.
SPRS - 4010 - R001 - STC	1,0	0,1	2,5	50	4	4	30,40
SPRS - 4010 - R002 - STC		0,2					30,40
SPRS - 4015 - R001 - STC	1,5	0,1	4,0	50	4	4	30,40
SPRS - 4015 - R002 - STC		0,2					30,40
SPRS - 4015 - R003 - STC		0,3					30,40
SPRS - 4020 - R001 - STC	2,0	0,1	6,0	50	4	4	30,40
SPRS - 4020 - R002 - STC		0,2					30,40
SPRS - 4020 - R003 - STC		0,3					30,40
SPRS - 4020 - R005 - STC		0,5					30,40
SPRS - 4030 - R001 - STC	3,0	0,1	10,0	60	6	4	36,60
SPRS - 4030 - R002 - STC		0,2					36,60
SPRS - 4030 - R003 - STC		0,3					36,60
SPRS - 4030 - R005 - STC		0,5					36,60
SPRS - 4040 - R001 - STC	4,0	0,1	12,0	60	6	4	36,60
SPRS - 4040 - R002 - STC		0,2					36,60
SPRS - 4040 - R003 - STC		0,3					36,60
SPRS - 4040 - R005 - STC		0,5					36,60
SPRS - 4040 - R010 - STC		1,0					36,60
SPRS - 4050 - R002 - STC	5,0	0,2	15,0	60	6	4	36,60
SPRS - 4050 - R003 - STC		0,3					36,60
SPRS - 4050 - R005 - STC		0,5					36,60
SPRS - 4050 - R010 - STC		1,0					36,60
SPRS - 4060 - R003 - STC	6,0	0,3	15,0	60	6	4	36,60
SPRS - 4060 - R005 - STC		0,5					36,60
SPRS - 4060 - R010 - STC		1,0					36,60
SPRS - 4060 - R015 - STC		1,5					36,60
SPRS - 4080 - R003 - STC	8,0	0,3	20,0	80	8	4	50,90
SPRS - 4080 - R005 - STC		0,5					50,90
SPRS - 4080 - R010 - STC		1,0					50,90
SPRS - 4080 - R015 - STC		1,5					50,90
SPRS - 4080 - R020 - STC		2,0					50,90

HPC-Torusfräser mit ungleicher Teilung, diverse Radien, Allrounder zum Schruppen und Schlichten

SPRS





h5

STC COATING

42° HELIX

UNEVEN PITCH

15° SHANK ANGLE

ER

$\phi 1.5$
-0.000/-0.010

$\phi 6-12$
-0.005/-0.015

$\phi 16-20$
-0.010/-0.020

R0.1-0.5

R1-1.5

R2-5

<700 N/mm²

700-1100 N/mm²

1100-1300 N/mm²

30-45 HRC

45-55 HRC

INOX

AL

CU CuZn Gold PL

TI

Best.-Nr. / Order no.	d1	ER	L1	L	D	Z	€/ St.
SPRS - 4100 - R003 - STC	10,0	0,3	25,0	80	10	4	69,40
SPRS - 4100 - R005 - STC		0,5					69,40
SPRS - 4100 - R010 - STC		1,0					69,40
SPRS - 4100 - R015 - STC		1,5					69,40
SPRS - 4100 - R020 - STC		2,0					69,40
SPRS - 4100 - R025 - STC		2,5					69,40
SPRS - 4100 - R030 - STC		3,0					69,40
SPRS - 4120 - R003 - STC	12,0	0,3	30,0	100	12	4	82,10
SPRS - 4120 - R005 - STC		0,5					82,10
SPRS - 4120 - R010 - STC		1,0					82,10
SPRS - 4120 - R015 - STC		1,5					82,10
SPRS - 4120 - R020 - STC		2,0					82,10
SPRS - 4120 - R025 - STC		2,5					82,10
SPRS - 4120 - R030 - STC	3,0	82,10					
SPRS - 4160 - R005 - STC	16,0	0,5	42,0	110	16	4	152,30
SPRS - 4160 - R010 - STC		1,0					152,30
SPRS - 4200 - R005 - STC	20,0	0,5	48,0	110	20	4	210,50
SPRS - 4200 - R010 - STC		1,0					210,50


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