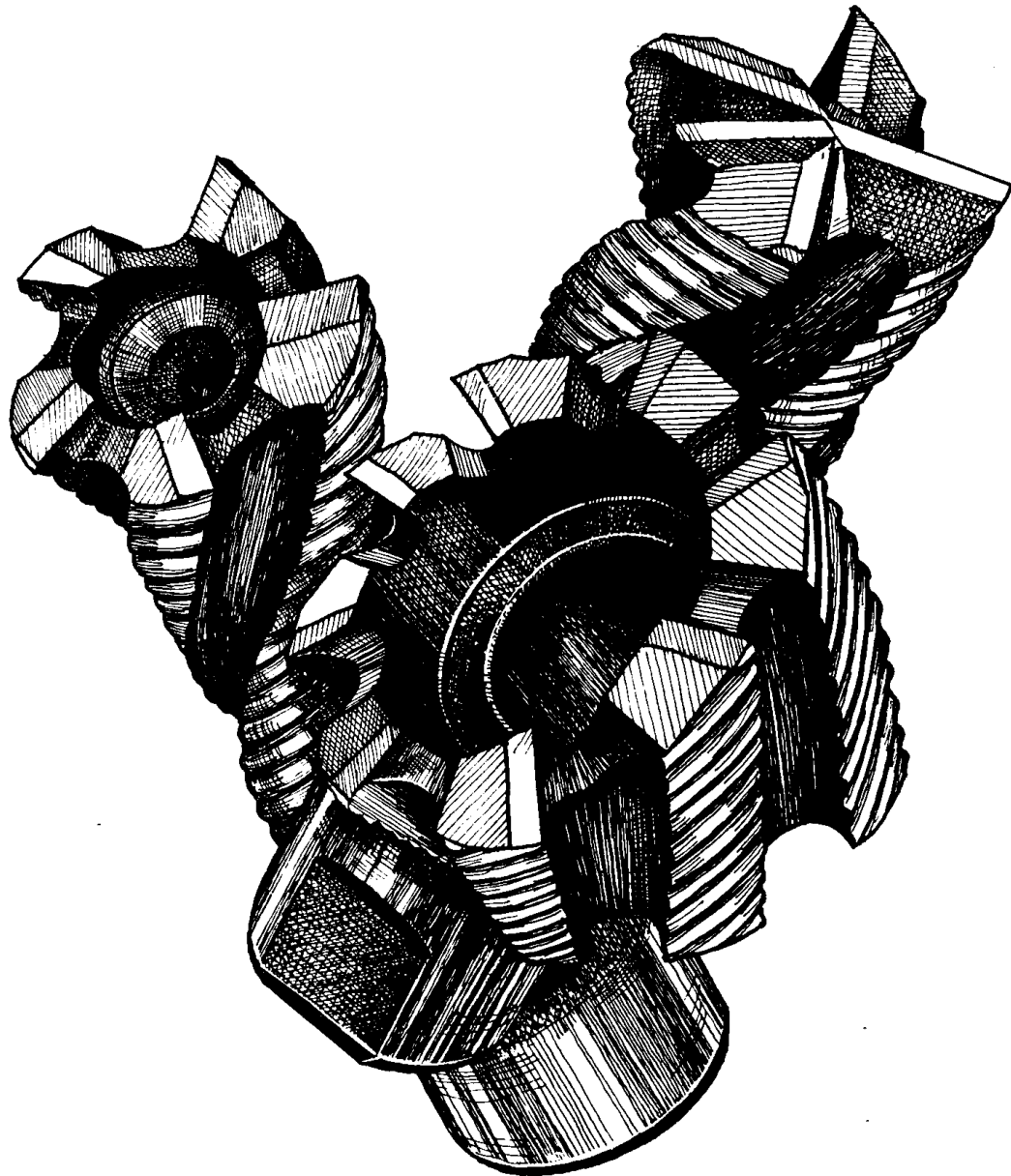


Skoleteknikk.no

NORTOOLS AS ✓



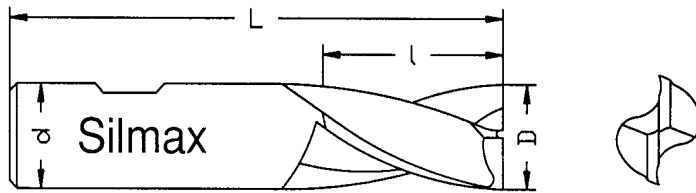
HIGHSPEED FRESER

Tlf 9202 5565

skoleteknikk@gmail.com

Tlf 6924 1000

SILMAX - IZAR FUTURA BELAGT

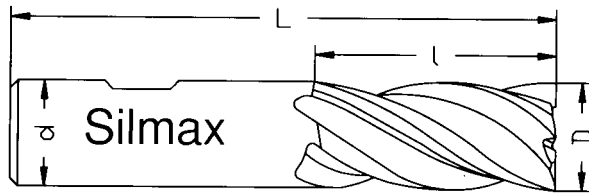


HSS FRES

SPOR FRES 2 SKJ.	KORT LENGDE	TOL. e 8
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FRES DIAMETER	SKAFT DIAMETER	SKJÆR LENGDE	TOTAL LENGDE	TYPE 4420	TYPE 731
1,5	6	4	49		#
2,0	6	4	49		#
2,5	6	5	49		#
3,0	6	5	49	#	#
3,5	6	7	50		#
4,0	6	7	51	#	#
4,5	6	7	51		#
5,0	6	8	52	#	#
5,5	6	8	52		#
6,0	6	8	52	#	#
6,5	10	10	60		#
7,0	10	10	60		#
7,5	10	10	60		#
8,0	10	11	61	#	#
8,5	10	11	61		#
9,0	10	11	61		#
9,5	10	11	61		#
10,0	10	13	63	#	#
11,0	12	13	70		#
12,0	12	16	73	#	#
13,0	12	16	73		#
14,0	12	16	73	#	#
15,0	12	16	73		#
16,0	16	19	79	#	#
17,0	16	19	79		#
18,0	16	19	79	#	#
19,0	16	19	79		#
20,0	20	22	88	#	#
22,0	20	22	88	#	#
25,0	25	26	102	#	#
28,0	25	26	102		#
30,0	25	26	102		#
32,0	32	32	112		#
36,0	32	32	112		#
40,0	40	38	130		#

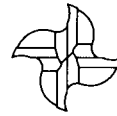
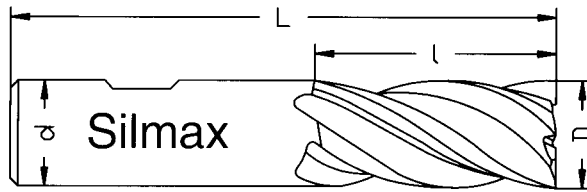
SILMAX – IZAR FUTURA BELAGT



**HSS
FRES**

SPOR FRES 3 SKJ.		NORMAL LENGDE		TOL. e 8/k 10	
FRES DIAMETER	SKAFT DIAMETER	SKJÆR LENGDE	TOTAL LENGDE	TYPE 4439	TYPE 111
2,0	6	7	52		#
3,0	6	8	52		#
4,0	6	11	55	#	#
5,0	6	13	57	#	#
6,0	6	13	57	#	#
7,0	10	16	66		#
8,0	10	19	69	#	#
9,0	10	19	69		#
10,0	10	22	72	#	#
11,0	12	22	79		#
12,0	12	26	83	#	#
13,0	12	26	83		#
14,0	12	26	83		#
15,0	12	26	83		#
16,0	16	32	92	#	#
17,0	16	32	92		#
18,0	16	32	92		#
19,0	16	32	92		#
20,0	20	38	104	#	#
22,0	20	38	104		#
25,0	25	45	121		#
28,0	25	45	121		#
30,0	25	45	121		#
32,0	32	53	133		#

SILMAX - IZAR FUTURA BELAGT



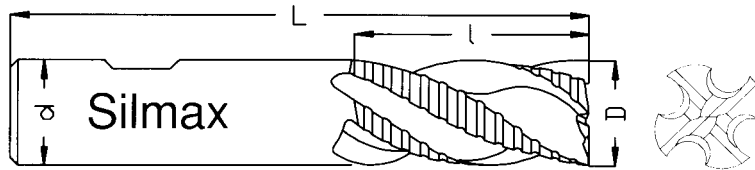
**HSS
FRES**

R>980N / Inox / Titan

SLETT FRES	NORMAL LENGDE	TOL. k 10
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FRES DIAMETER	SKAFT DIAMETER	SKJÆR LENGDE	TOTAL LENGDE	TYPE 4400	TYPE 113
6,0	6	13	57	#	#
8,0	10	19	69	#	#
9,0	10	19	69		#
10,0	10	22	72	#	#
11,0	12	22	79		#
12,0	12	26	83	#	#
13,0	12	26	83		#
14,0	12	26	83		#
15,0	12	26	83		#
16,0	16	32	92	#	#
17,0	16	32	92		#
18,0	16	32	92		#
20,0	20	38	104	#	#
22,0	20	38	104		#
25,0	25	45	121	#	#
26,0	25	45	121		#
28,0	25	45	121		#
30,0	25	45	121		#
32,0	32	53	133		#
36,0	32	53	133		#
40,0	40	63	155		#

SILMAX - IZAR FUTURA BELAGT



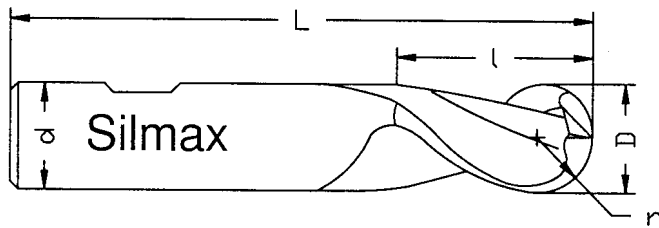
**HSS
FRES**

R>980N / Inox / Titan - F Form

SKRUBB FRES	NORMAL LENGDE
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FRES DIAMETER	SKAFT DIAMETER	SKJÆR LENGDE	TOTAL LENGDE	TYPE 4680	TYPE 013
5,0	6	13	57		#
6,0	6	13	57	#	#
7,0	10	16	66		#
8,0	10	19	69	#	#
9,0	10	19	69		#
10,0	10	22	72	#	#
11,0	12	22	79		#
12,0	12	26	83	#	#
13,0	12	26	83		#
14,0	12	26	83		#
15,0	12	26	83		#
16,0	16	32	92	#	#
17,0	16	32	92		#
18,0	16	32	92		#
19,0	16	32	92		#
20,0	20	38	104	#	#
22,0	20	38	104		#
24,0	25	45	121		#
25,0	25	45	121		#
26,0	25	45	121		#
28,0	25	45	121		#
30,0	25	45	121		#
32,0	32	53	133		#
36,0	32	53	133		#
40,0	40	63	155		#

SILMAX FUTURA BELAGT

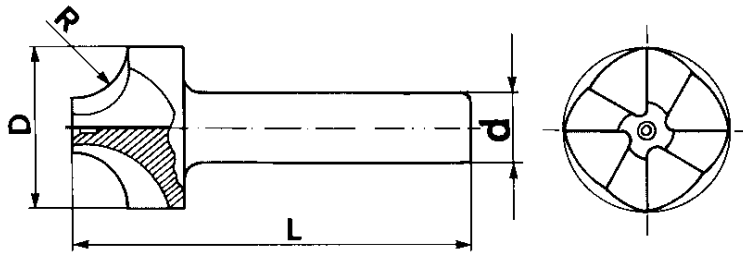


**HSS
FRES**

KULE FRES	NORMAL LENGDE
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FRES DIAMETER	SKAFT DIAMETER	SKJÆR LENGDE	TOTAL LENGDE		TYPE 737
0,5	3	1,5	37		#
0,8	4	2	37		#
1,0	4	3	37		#
1,2	4	4	37		#
1,5	4	4	37		#
1,8	4	5	37		#
2,0	6	6	52		#
2,5	6	8	52		#
3,0	6	8	52		#
4,0	6	11	55		#
5,0	6	13	57		#
6,0	6	13	57		#
7,0	10	16	66		#
8,0	10	19	69		#
10,0	10	22	72		#
12,0	12	26	83		#
14,0	12	26	83		#
16,0	16	32	92		#
18,0	16	32	92		#
20,0	20	38	104		#

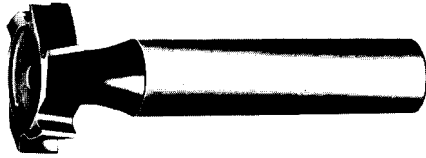
RIME UTV. RADIEFRES



**HSS
FRES**

RADIE FRES UTV.		NORMAL LENGDE			
FRES RADIE	UTVENDIG DIAMETER	SKAFT DIAMETER	TOTAL LENGDE	FRONT DIAMETER	TYPE S4 / 5080
1,0	8	12	60	6	#
1,5	9	12	60	6	#
1,6	9,2	12	60	6	#
2,0	10	12	60	6	#
2,5	11	12	60	6	#
3,0	12	12	60	6	#
3,5	13	12	60	6	?
4,0	14	12	60	6	#
4,5	15	16	60	6	?
5,0	16	16	60	6	#
6,0	20	16	63	8	#
7,0	22	16	71	8	#
8,0	24	16	71	8	#
9,0	26	25	85	8	#
10,0	28	25	85	8	#
11,0	35	25	90	9	?
12,0	34	25	90	10	#
12,5	41	25	100	16	#
14,0	42	25	100	14	?
15,0	46	25	100	16	?
16,0	48	25	100	16	#
18,0	48,5	25	92	12,5	?
20,0	56	25	112	16	#

RIME WOODRUFF FRES



HSS FRES

WOODRUFF FRES		NORMAL LENGDE		DIN 850	
FRES DIAMETER	SKAFT DIAMETER	SKJÆR HØYDE	TOTAL LENGDE		TYPE R0
10,5	12	2	50		#
10,5	12	2,5	57		#
10,5	12	3	57		#
13,5	12	2	57		?
13,5	12	2,5	57		?
13,5	12	3	57		#
13,5	12	3,5	57		?
13,5	12	4	57		#
16,5	12	2,5	57		?
16,5	12	3	57		#
16,5	12	4	57		#
16,5	12	5	57		#
16,5	12	6	57		?
19,5	12	3	57		?
19,5	12	4	57		#
19,5	12	5	57		#
19,5	12	6	57		#
22,5	12	4	63		?
22,5	12	5	63		#
22,5	12	6	63		#
22,5	12	8	57		?
25,5	12	5	70		?
25,5	12	6	70		#
25,5	12	7	70		?
25,5	12	8	70		?
28,5	12	5	70		?
28,5	12	6	70		#
28,5	12	7	70		?
28,5	12	8	70		#
28,5	12	10	70		#
32,5	12	6	70		?
32,5	12	7	70		#
32,5	12	8	70		#
32,5	12	10	70		?
45,5	12	10	70		#

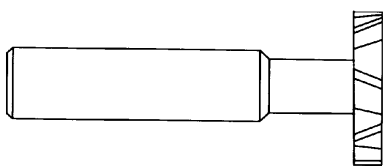
IZAR WOODRUFF FRES



HSS FRES

WOODRUFF FRES		NORMAL LENGDE		DIN 850	
FRES DIAMETER	SKAFT DIAMETER	SKJÆR HØYDE	TOTAL LENGDE		TYPE 4834
4,5	6	1	50		?
7,5	6	1,5	50		?
7,5	6	2	50		?
10,5	6	2	50		?
10,5	6	2,5	57		?
10,5	6	3	57		?
13,5	10	3	57		?
13,5	10	4	57		?
16,5	10	3	57		?
16,5	10	4	57		?
16,5	10	5	57		?
19,5	10	5	57		?
19,5	10	6	57		?
22,5	10	5	63		?
22,5	10	6	63		?
22,5	10	8	57		?
25,5	10	6	70		?
28,5	10	6	70		?
28,5	10	8	70		?
28,5	10	10	70		?

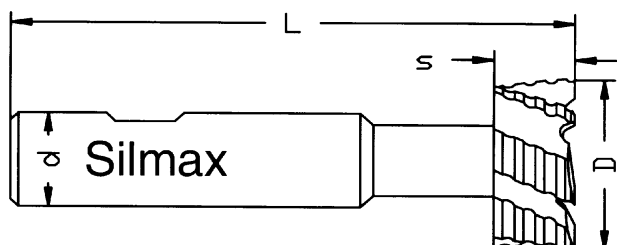
SILMAX FUTURA BELAGT



HSS FRES

T-SPOR FRES	NORMAL LENGDE	DIN 851
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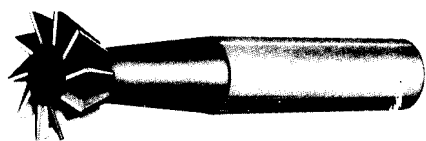
FRES DIAMETER	SKAFT DIAMETER	SKJÆR HØYDE	TOTAL LENGDE		TYPE R1
11	10	3,5	53		#
12,5	10	6	57		#
16	10	8	62		#
18	12	8	70		#
19	12	9	70		#
21	12	9	74		#
22	12	10	75		?
25	16	11	82		#
28	16	12	76		#
32	16	14	90		#
36	25	16	100		#
40	25	18	108		#
45	25	20	122		?
50	32	22	124		?
60	32	28	139		?



T-SPOR SKRUBB	NORMAL LENGDE	DIN 851
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FRES DIAMETER	SKAFT DIAMETER	SKJÆR HØYDE	TOTAL LENGDE		TYPE 005
12,5	10	6	57		#
16	10	8	62		#
18	12	8	70		#
21	12	9	74		#
22	12	10	75		#
25	16	11	82		#
30	16	12	90		#
32	16	14	90		#
36	25	16	100		#
40	25	18	108		#

RIME UBELAGT & BELAGT



HSS FRES

VINKEL FRES	NORMAL LENGDE	DIN 1833 A
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FRES DIAMETER	SKAFT DIAMETER	SKJÆR HØYDE	TOTAL LENGDE	GRADER OPPOVER	TYPE 5A / 4330
13,0	12	3	64	45`	?
13,0	12	4	64	60`	?
16,0	12	4	67	45`	#
16,0	12	6	67	60`	#
19,0	12	6	67	45`	?
19,0	12	7	68	60`	?
20,0	12	5	69	45`	?
20,0	12	8	68	60`	?
22,0	12	7	69	45`	?
22,0	12	10	68	60`	?
25,0	12	8	70	45`	#
25,0	12	12	70	60`	#
28,0	16	9	72	45`	?
28,0	16	13	73	60`	?
32,0	16	9	75	45`	#
32,0	16	14	75	60`	#
35,0	25	10	80	45`	?
35,0	25	15	83	60`	?
38,0	25	11	80	45`	?
38,0	25	16	84	60`	?
50,0	25	15	89	45`	?
50,0	25	22	95	60`	?

RIME UBELAGT & BELAGT

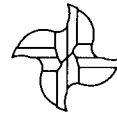
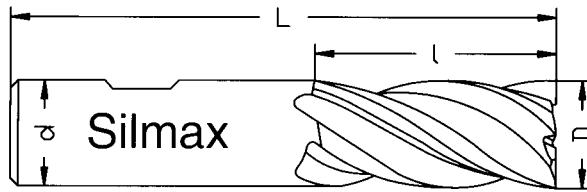


HSS FRES

VINKEL FRES	NORMAL LENGDE	DIN 1833 B
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FRES DIAMETER	SKAFT DIAMETER	SKJÆR HØYDE	TOTAL LENGDE	GRADER OPPOVER	TYPE 5A / 4340
13,0	12	3	64	45`	?
13,0	12	4	64	60`	?
16,0	12	4	67	45`	#
16,0	12	6	67	60`	#
19,0	12	6	67	45`	?
19,0	12	7	68	60`	?
20,0	12	5	69	45`	?
20,0	12	8	68	60`	?
22,0	12	7	69	45`	?
22,0	12	10	68	60`	?
25,0	12	8	70	45`	#
25,0	12	12	70	60`	#
28,0	16	9	72	45`	?
28,0	16	13	73	60`	?
32,0	16	9	75	45`	#
32,0	16	14	75	60`	#
35,0	25	10	80	45`	?
35,0	25	15	83	60`	?
38,0	25	11	80	45`	?
38,0	25	16	84	60`	?
50,0	25	15	89	45`	?
50,0	25	22	95	60`	?

SILMAX - IZAR FUTURA BELAGT

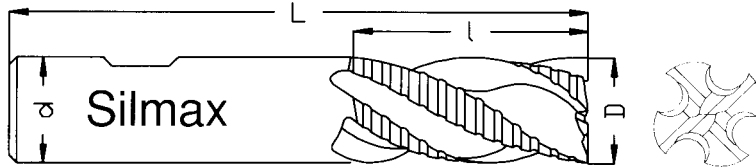


**HSS
FRES**

R>980N / Inox / Titan

SLETT FRES		LANG LENGDE		TOL. k 10	
FRES DIAMETER	SKAFT DIAMETER	SKJÆR LENGDE	TOTAL LENGDE	TYPE 4606	TYPE 123
6,0	6	24	68		#
8,0	10	38	88		#
10,0	10	45	95	#	#
12,0	12	53	110	#	#
14,0	12	53	110		#
16,0	16	63	123	#	#
18,0	16	63	123		#
20,0	20	75	141	#	#
22,0	20	75	141		#
25,0	25	90	166	#	#
30,0	25	90	166		#
32,0	32	106	186		#
36,0	32	106	186		#
40,0	40	125	217		#

SILMAX - IZAR FUTURA BELAGT

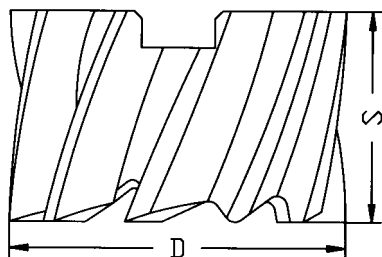


**HSS
FRES**

R>980N / Inox / Titan - F Form 

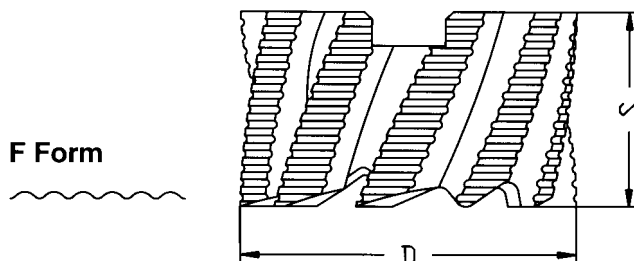
SKRUBB FRES		LANG LENGDE			
FRES DIAMETER	SKAFT DIAMETER	SKJÆR LENGDE	TOTAL LENGDE	TYPE 4692	TYPE 023
6,0	6	24	68		#
8,0	10	38	88		#
10,0	10	45	95	#	#
12,0	12	53	110	#	#
14,0	12	53	110		#
16,0	16	63	123	#	#
18,0	16	63	123		#
20,0	20	75	141	#	#
22,0	20	75	141		#
25,0	25	90	166	#	#
30,0	25	90	166		#
32,0	32	106	182		#
36,0	32	106	186		#
38,0	32	125	205		?
40,0	40	125	217		#

SILMAX FUTURA BELAGT



HSS FRES

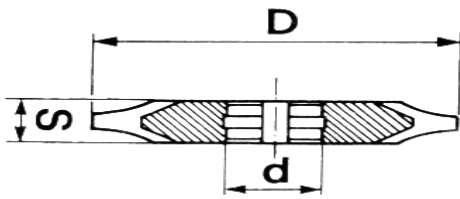
SLETT FRES		ENDEPLAN STD.		DIN 1880	
FRES DIAMETER	INNFEST DIAMETER	SKJÆR HØYDE			TYPE 180
40,0	16	32			#
50,0	22	36			#
63,0	27	40			#
80,0	27	45			#
100,0	32	50			#
125,0	40	56			?
160,0	50	63			?



HSS FRES

SKRUBB FRES		ENDEPLAN STD.		DIN 1880	
FRES DIAMETER	INNFEST DIAMETER	SKJÆR HØYDE			TYPE 080
40,0	16	32			#
50,0	22	36			#
63,0	27	40			#
80,0	27	45			#
100,0	32	50			#
125,0	40	56			?
160,0	50	63			?

CARMON UBELAGT 8 % COB



HSS FRES

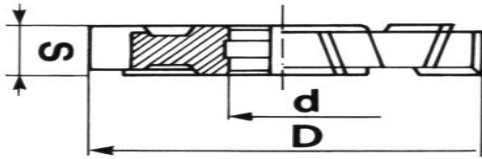
MODUL	SKIVEFRES	UNI 4501
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FRES DIAMETER	MODUL	HULL			TYPE MOD 141
40	0,5	16			?
40	0,75	16			?
50	1,0	16			?
50	1,25	16			?
63	1,5	22			?
63	1,75	22			?
63	2,0	22			?
63	2,25	22			?
63	2,5	22			?
70	2,75	27			?
70	3,0	27			?
70	3,25	27			?
80	3,5	27			?
80	3,75	27			?
80	4,0	27			?
80	4,25	27			?
90	4,5	27			?
90	4,75	27			?
90	5,0	32			?
90	5,25	32			?
90	5,5	32			?
90	5,75	32			?
100	6,0	32			?
100	6,5	32			?
110	7,0	32			?
110	8,0	32			?
125	9,0	40			?
125	10,0	40			?

NR. I TABELLEN HENVISER TIL ANTALL TENNER PÅ DREVET SOM SKAL FRESES

NR.1	NR.2	NR.3	NR.4	NR.5	NR.6	NR.7	NR.8
12-13 Z	14-16 Z	17-20 Z	21-25 Z	26-34 Z	35-54 Z	55-134 Z	135= Z

CARDINAL 8 % COB

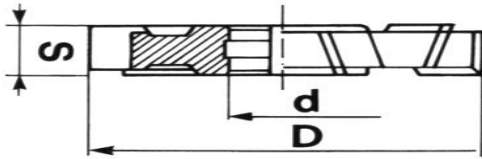


HSS FRES

SKIVEFRES	MEDIUM TANNET	DIN 885 A
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FRES DIAMETER	FRES BREDDEN	HULL	ANTALL TENNER		TYPE CR 83
50	3	16	16		?
50	4	16	16		?
50	5	16	16		?
50	6	16	14		?
50	7	16	14		?
50	8	16	14		?
50	9	16	14		?
50	10	16	14		?
63	3	22	18		?
63	4	22	18		?
63	5	22	18		?
63	6	22	16		?
63	7	22	16		?
63	8	22	16		?
63	9	22	16		?
63	10	22	16		?
63	12	22	16		?
63	14	22	16		?
63	16	22	16		?
63	18	22	16		?
80	3	22/27	20		?
80	4	22/27	20		?
80	5	22/27	20		?
80	6	22/27	20		?
80	7	22/27	20		?
80	8	22/27	18		?
80	9	22/27	18		?
80	10	22/27	18		?
80	12	22/27	18		?
80	14	22/27	18		?
80	16	22/27	16		?
80	18	22/27	16		?
80	20	22/27	16		?

CARMON UBELAGT 8 % COB

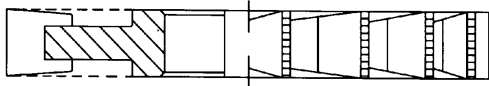


HSS FRES

SKIVEFRES	MEDIUM TANNET	DIN 885 A
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FRES DIAMETER	FRES BREDDER	HULL	ANTALL TENNER		TYPE CR 83
100	3	27/32	24		?
100	4	27/32	24		?
100	5	27/32	24		?
100	6	27/32	24		?
100	7	27/32	24		?
100	8	27/32	20		?
100	9	27/32	20		?
100	10	27/32	20		?
100	12	27/32	20		?
100	14	27/32	20		?
100	16	27/32	20		?
100	18	27/32	18		?
100	20	27/32	18		?
125	4	32	26		?
125	5	32	26		?
125	6	32	26		?
125	7	32	26		?
125	8	32	26		?
125	10	32	22		?
125	12	32	22		?
125	14	32	22		?
125	16	32	20		?
125	18	32	20		?
125	20	32	20		?
125	22	32	20		?
125	25	32	18		?
160	5	32/40	28		?
160	6	32/40	28		?
160	7	32/40	28		?
160	8	32/40	28		?
160	10	32/40	28		?
160	12	32/40	24		?
160	14	32/40	24		?
160	16	32/40	24		?

CARDINAL UBELAGT 8 % COB



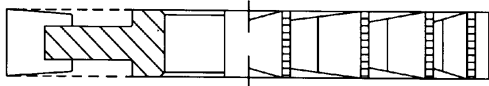
HSS FRES

SAGBLAD	MEDIUM TANNET	DIN 1837 A
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FRES DIAMETER	FRES BREDDER	HULL	ANTALL TENNER	TYPE 1004
25	0,2	8	80	?
25	0,25	8	80	?
25	0,3	8	80	?
25	0,4	8	64	?
25	0,5	8	64	?
25	0,6	8	64	?
25	0,8	8	48	?
25	1,0	8	48	?
25	1,2	8	48	?
25	1,6	8	48	?
25	2,0	8	48	?
32	0,2	8	100	?
32	0,25	8	100	?
32	0,3	8	80	?
32	0,4	8	80	?
32	0,5	8	80	?
32	0,6	8	64	?
32	0,8	8	64	?
32	1,0	8	64	?
32	1,2	8	48	?
32	1,6	8	48	?
32	2,0	8	48	?
50	0,2	13	128	?
50	0,25	13	128	?
50	0,3	13	128	?
50	0,4	13	100	?
50	0,5	13	100	?
50	0,6	13	100	?
50	0,8	13	80	?
50	1,0	13	80	?
50	1,2	13	80	?
50	1,6	13	64	?
50	2,0	13	64	?
50	2,5	13	64	?
50	3,0	13	64	?

SAGBLADHOLDERE LEVERES MED SYL.SKAFT FRA LAGER

CARDINAL UBELAGT 8 % COB



HSS FRES

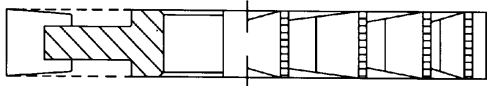
SAGBLAD

DIN 1837 A

FRES DIAMETER	FRES BREDDE	HULL	ANTALL TENNER		TYPE 1004
80	0,5	22	128		?
80	0,8	22	64		?
80	0,8	22	128		?
80	1,0	22	48		?
80	1,0	22	100		?
80	1,2	22	48		?
80	1,2	22	100		?
80	1,6	22	48		?
80	1,6	22	100		?
80	2,0	22	40		?
80	2,0	22	80		?
80	2,5	22	40		?
80	2,5	22	80		?
80	3,0	22	40		?
80	3,0	22	80		?
100	1,0	22	64		?
100	1,0	22	128		?
100	1,2	22	64		?
100	1,2	22	128		?
100	1,6	22	48		?
100	1,6	22	100		?
100	2,0	22	48		?
100	2,0	22	100		?
100	2,5	22	48		?
100	2,5	22	100		?
100	3,0	22	40		?
100	3,0	22	80		?
125	1,0	22	160		?
125	1,6	22	128		?
125	2,0	22	128		?
125	3,0	22	128		?

SAGBLADHOLDERE LEVERES MED SYL. SKAFT FRA LAGER

CARDINAL UBELAGT 8 % COB



HSS FRES

SAGBLAD

DIN 1837 A

FRES DIAMETER	FRES BREDDE	HULL	ANTALL TENNER		TYPE 1004
160	1,6	32	160		?
160	2,0	32	128		?
160	2,5	32	128		?
160	3,0	32	128		?
200	1,6	32	160		?
200	2,0	32	160		?
200	2,5	32	160		?
200	3,0	32	128		?

SAGBLADER LEVERES I DIAMETER OPP TIL 500

SAGBLADHOLDERE LEVERES MED SYL.SKAFT FRA LAGER