

Winkelfräser

- mit Zylinder-Schaft und Fläche
- kleiner Durchmesser schaftseitig
- schräg- und stirnverzahnt

Fraises coniques

- queue cylindrique à méplat
- cône renversé
- denture inclinée et en bout

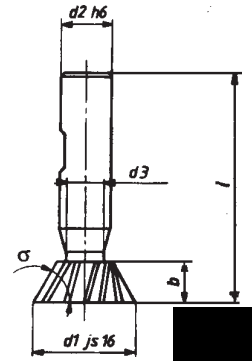
Conical mill

- cylindrical shank with flats
- small diameter shank side
- helical and front teeth

2496..

Werkstoff matières	Schneide dent	Spanwinkel Angle de coupe	Spiralwinkel Angle hélice	Schneiden no. dents	Haupteinsatz appl.princip.	Norm standard	Norm Schaft stand.queue	Weitere Ang. autres spec.
HSS-Co5	N	15°	15°	5 - 14 Schwalbenschwanz cône renversé	Nuten rainures	DIN 1833C	DIN 1835A ISO 3338	fein gestuft pas fin

2496.. (HSS-Co): Zu bearbeitendes Material / matières applicables: D2496.201
 Unlegierte Stähle/ Aciers non alliés < 700 N/mm2 Legierte Stähle/ aciers alliés 700 - 950 N/mm2



2.496117										Best.Nr. 2496.. no.cde.				Best.Nr. 2496.. no.cde.													
d1	σ	b	l	d2	d3	Z	order no.	Fr.	d1	σ	b	l	d2	d3	Z	order no.	Fr.	d1	σ	b	l	d2	d3	Z	order no.	Fr.	
10	30		58	8	5	10	2496. 100	54,65	20	60	8,0	63	12	7	10	2496. 540	71,80	20	65		63	12	7	10	2496. 560	92,40	
10	45	3,0	58	8	5	10	2496. 120	56,30	20	70		63	12	7	10	2496. 580	92,40	20	75		63	12	7	10	2496. 600	92,40	
10	50	4,0	58	8	5	10	2496. 140	56,30	20	80		63	12	7	10	2496. 620	92,40	25	45	6,3	67	16	8	12	2496. 640	92,90	
10	55	5,0	58	8	5	10	2496. 160	56,30	25	50		67	16	8	12	2496. 660	121,00	25	55		67	16	8	12	2496. 680	121,00	
10	60	5,0	58	8	5	10	2496. 180	56,30	25	60	10,0	67	16	8	12	2496. 700	91,70	25	65		67	16	8	12	2496. 720	121,00	
10	65	6,0	58	8	5	10	2496. 200	56,30	25	70		67	16	8	12	2496. 740	121,00	25	75		67	16	8	12	2496. 760	121,00	
10	70	7,0	58	8	5	10	2496. 220	56,30	25	80		67	16	8	12	2496. 780	121,00	32	45	8,0	71	16	12	14	2496. 800	131,00	
10	75	7,0	58	8	5	10	2496. 240	56,30	32	50					14	2496. 820	190,00	32	55						2496. 840	190,00	
10	80	8,0	58	10	10	5	2496. 260	56,30	32	60	12,5	71	16	12	14	2496. 860	131,00	32	65						2496. 880	190,00	
12,5	45	3,0	55	10	5	6	2496. 280	54,00	32	70						2496. 900	190,00	32	75						2496. 920	190,00	
12,5	60	4,0	54	10	5	6	2496. 300	53,80	32	80						2496. 940	190,00	32	80								
16	45	4,0	60	12	6	8	2496. 320	59,80																			
16	50	6,3	60	12	6	8	2496. 340	76,40																			
16	55	6,3	60	12	6	8	2496. 360	76,40																			
16	60	6,3	60	12	6	8	2496. 380	60,60																			
16	65		60	12	6	8	2496. 400	76,40																			
16	70		60	12	6	8	2496. 420	76,40																			
16	75		60	12	6	8	2496. 440	76,40																			
16	80		60	12	6	8	2496. 460	76,40																			
20	45	5,0	63	12	7	10	2496. 480	74,90																			
20	50		63	12	7	10	2496. 500	92,40																			
20	55		63	12	7	10	2496. 520	92,40																			

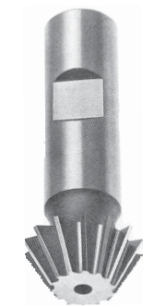
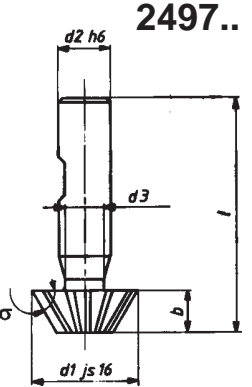


Winkelfräser, nur am Umfang *Fraises coniques, cône di-* **Conical mill, cutting on conical face, for hard materials**
 aktiv, für harte Werkstoffe *rect p. des matériaux durs*

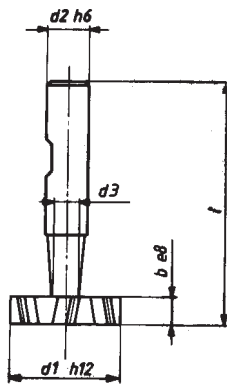
Schneide dent	Spanwinkel Angle de coupe	Spiralwinkel Angle hélice	Schneiden no. dents	Haupteinsatz appl.princip.	Norm standard	Norm Schaft stand.queue	Weitere Ang. autres spec.
H	0°	0°	8 - 16 Schwalbenschwanz cône renversé	Nuten rainures	DIN 1833D	DIN 1835A ISO 3338	für harte Werkstoffe pour matériaux durs

S-Co): Zu bearbeitendes Material / matières applicables: D2497.201
 Stähle/ Aciers non alliés < 700 N/mm2 Legierte Stähle/ aciers alliés 700 - 950 N/mm2

2497112										Best.Nr. 2497.. no.cde.				Best.Nr. 2497.. no.cde.												
σ	d1	b	l	d2	d3	Z	order no.	CHF	σ	d1	b	l	d2	d3	Z	order no.	CHF	σ	d1	b	l	d2	d3	Z	order no.	CHF
45	10	2,5	58	8	5	10	2497. 100	34,50	60	25	10,0	67	16	11	14	2497. 460	83,90	60	32	12,5	71	16	12	16	2497. 480	123,70
45	12,5	3,0	55	10	5	10	2497. 120	48,90	60	30		67	16	11	14	2497. 500	52,20	65	10		58	8	5	10	2497. 520	70,35
45	16	4,0	60	12	8	10	2497. 140	54,30	65	16		60	12	8	12	2497. 540	80,35	65	20		63	12	10	12	2497. 560	104,00
45	20	5,0	63	12	8	10	2497. 160	66,10	65	25		67	16	11	14	2497. 580	52,20	70	10		58	8	5	10	2497. 600	70,35
45	25	6,3	67	16	11	14	2497. 180	83,10	70	16		60	12	8	10	2497. 620	80,35	70	20		63	12	10	12	2497. 640	104,00
45	32	6,0	71	16	12	16	2497. 200	123,70	75	10		58	8	5	10	2497. 660	52,20	75	16		60	12	8	12	2497. 680	70,35
50	10		58	8	5	10	2497. 220	52,20	75	20		63	12	10	12	2497. 700	80,35	75	25		67	16	11	14	2497. 720	104,00
50	16		60	12	8	10	2497. 240	70,35	80	10		58	8	5	10	2497. 740	52,20	80	16		60	12	8	10	2497. 760	70,35
50	20		63	12	10	12	2497. 260	80,35	80	20		63	12	10	12	2497. 780	80,35	80	25		67	16	11	14	2497. 800	104,00
50	25		67	16	11	14	2497. 280	104,00	80	30		71	16	12	16	2497. 820	190,00	80	32		73	16	12	16	2497. 840	190,00
55	10		58	8	5	10	2497. 300	52,20	80	40		77	16	14	18	2497. 860	190,00	80	45		79	16	14	18	2497. 880	190,00
55	16		60	12	8	10	2497. 320	70,35	80	50		83	16	16	20	2497. 900	190,00	80	55		85	16	16	20	2497. 920	190,00
55	20		63	12	10	12	2497. 340	80,35	80	60		91	16	18	24	2497. 940	190,00	80	65		95	16	18	24	2497. 960	190,00
55	25		67	16	11	14	2497. 360	104,00	80	70		101	16	20	28	2497. 980	190,00	80	75		105	16	20	28	2497. 1000	190,00
60	10	6,3	58	8	5	10	2497. 380	52,20	80	80		111	16	22	32	2497. 1020	190,00	80	85		115	16	22	32	2497. 1040	190,00
60	12,5	5,0	55	10	5	8	2497. 400	48,90	80	90		121	16	24	36	2497. 1060	190,00	80	95		125	16	24	36	2497. 1080	190,00
60	16	6,3	60	12	8	10	2497. 420	55,80	80	100		131	16	26	40	2497. 1100	190,00	80	105		135	16	26	40	2497. 1120	190,00
60	20	8,0	63	12	10	12	2497. 440	63,90	80	110		141	16	28	44	2497. 1140	190,00	80	115		145	16	28	44	2497. 1160	190,00



2540..



Schlitzfräser

- Für Scheibefedernuten
- mit Zylinderschaft und Fläche
- kreuzverzähnt,seitlich hohlgeschliffen

Fraises p.logem.de clavette Slotting endmill

- queue cylindrique à méplat
- denture alternée
- évidement latéral
- cylindrical shank with flats
- alternate teething
- hollow ground on side

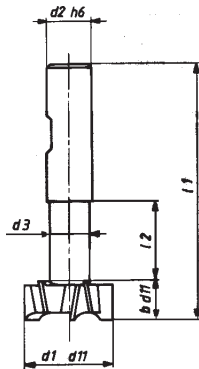
Werkstoff matières material	Typ type typ	Spanwinkel Angle de coupe Rake angle	Spiralwinkel Angle hélice Spiral angle	Schneiden no. dents no.teeth	Haupteinsatz appl.princip. application	Norm standard standard	Norm Schaft stand. tiege standard shank	Weitere Ang. autres spec. miscellaneous
HSS-Co5	N	10°	10°	8 - 12	Nuten rainures slots	DIN 850 D	DIN 835 A ISO 3338	feingestuft pas fin fine steps

2568.. (HSS-Co), 2568S..(HSS-Co): Zu bearbeitendes Material / matières applicables/materials: D2540.201
 Unlegierte Stähle/ aciers non alliés/ non alloyed steels < 700 N/mm2 Legierte Stähle/ aciers alliés/alloyed steels 700 - 950 N/mm2



2.540112 HSS-Co Best.Nr. 2540..								HSS-Co Best.Nr. 2540..									
d1	b	l	d2	d3	Z	no. cde.	order no.	CHF	d1	b	l	d2	d3	Z	no. cde.	order no.	CHF
4.5	1.0	50	6	3.0	6	2540.045	45.35		22.5	6.0	60	10	6.5	10	2540.227	65.50	
7.5	2.0	50	6	3.3	8	2540.075	56.60		22.5	8.0	63	10	6.5	10	2540.228	66.50	
10.5	2.0	50	6	4.0	8	2540.105	51.60		25.5	5.0	60	10	7.5	12	2540.255	73.20	
10.5	2.5	50	6	4.0	8	2540.106	51.70		25.5	6.0	60	10	7.5	12	2540.256	74.00	
10.5	3.0	50	6	4.2	8	2540.107	51.60		25.5	7.0*	60	10	7.5	12	2540.257*	60.40	
13.5	2.0	55	10	4.6	8	2540.135	53.40		25.5	8.0	63	10	7.5	12	2540.258	74.30	
13.5	2.5	55	10	4.6	8	2540.136	53.50		28.5	5.0	60	10	8.5	12	2540.285	90.90	
13.5	3.0	55	10	4.6	8	2540.137	53.30		28.5	6.0	60	10	8.5	12	2540.286	89.40	
13.5	4.0	55	10	4.6	8	2540.138	53.40		28.5	7.0*	60	10	8.5	12	2540.287*	47.40	
16.5	2.5	55	10	4.6	10	2540.165	54.60		28.5	8.0	60	10	8.5	12	2540.288	87.20	
16.5	3.0	55	10	4.6	10	2540.166	54.80		28.5	10.0	65	12	9.3	12	2540.289	65.40	
16.5	4.0	55	10	4.6	10	2540.167	56.70		32.5	5.0	60	10	8.5	12	2540.325	97.40	
16.5	5.0	55	10	5.0	10	2540.168	55.40		32.5	6.0	60	10	8.5	12	2540.326	101.20	
19.5	3.0	55	10	5.6	10	2540.195	61.20		32.5	7.0*	60	10	8.5	12	2540.327*	78.20	
19.5	4.0	55	10	5.6	10	2540.196	61.50		32.5	8.0	60	10	8.5	12	2540.328	96.20	
19.5	5.0	55	10	6.0	10	2540.197	61.50		32.5	10.0	65	12	9.3	12	2540.329	101.10	
19.5	6.0	60	10	6.5	10	2540.198	61.80		45.5	8.0	65	12	11.8	12	2540.455	147.80	
22.5	4.0	60	10	6.0	10	2540.225	65.50		45.5	10.0	65	12	11.8	12	2540.456	147.80	
22.5	5.0	60	10	6.0	10	2540.226	65.90		*solange Vorrat / jusqu'à l'épuisement du stock								

2542..



Schaftfräser für

T-Nuten

- Mit Zylinderschaft u. Fläche
- kreuzverzähnt

Fraises pour

rainures à T

- Queue cylindrique à méplat
- denture alternée

T-nut mill

- Cylindrical shank w. flats
- alternate teething

Werkstoff matières material	Typ type typ	Spanwinkel Angle de coupe Rake angle	Spiralwinkel Angle hélice Spiral angle	Schneiden no. dents no.teeth	Haupteinsatz appl.princip. application	Norm standard standard	Norm Schaft stand. tiege standard shank	Weitere Ang. autres spec. miscellaneous
HSS-Co5	N	10°	10°	6 - 8	Nuten rainures slots	DIN 851 AE DIN 650	DIN 835 A ISO 3338	T-Nuten miscellaneous rainures à T T-slots

2542.. (HSS-Co), 2568S..(HSS-Co): Zu bearbeitendes Material / matières applicables/materials: D2542.201
 Unlegierte Stähle/ aciers non alliés/ non alloyed steels < 700 N/mm2 Legierte Stähle/ aciers alliés/alloyed steels 700 - 950 N/mm2



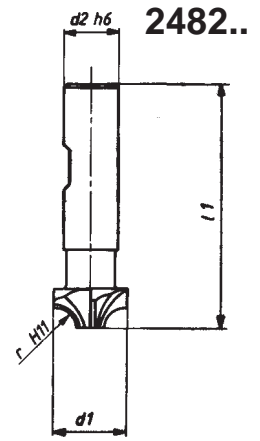
2.542112 Best.Nr. 2542..								Best.Nr. 2542..											
d1	b	d2	l1	d3	l2	DIN	Z	no. cde.	d1	b	d2	l1	d3	l2	DIN	Z	no. cde.		
							650	order no.	CHF								650	order no.	CHF
11.0	3.5	10	54	4	10	5	6	2542.110	71.50	21.0	9.0	12	74	10	20	12	8	2542.210	93.00
12.5	6.0	10	57	5	11	6	6	2542.125	67.80	25.0	11.0	16	82	12	23	14	8	2542.250	114.70
16.0	8.0	10	62	7	14	8	6	2542.160	73.30	28.0	12.0	16	85	13	25	16	8	2542.280	133.40
18.0	8.0	12	70	8	17	10	8	2542.180	81.90	32.0	14.0	16	90	15	28	18	8	2542.320	161.80

Viertelkreisfräser *Fraises à angler* **Quarter radius mill**

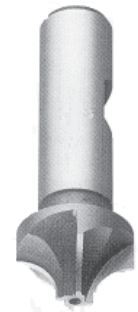
- mit Zylinder-Schaft u. Fläche ● *queue cylindrique à méplat* ● cylindrical shank with flats
- für harte werkstoffe ● *pour matériaux durs* ● for hard materials

Werkstoff matières Material	Typ type typ	Spanwinkel Angle de coupe Rake angle	Spiralwinkel Angle hélice Spiral angle	Schneiden no. dents no.teeth	Haupteinsatz appl.princip. application	Norm standard standard	Schaft tiege shank	Weitere Ang. autres spec. miscellaneous
HSS-Co5	H	0°	0°	4 - 6	Radialen radius radius	DIN 6518B	DIN 1835A ISO 3338	fein gestuft pas fin fine steps

2482.. (HSS-Co): Zu bearbeitendes Material / matières applicables/materials: D2482.201
 Unlegierte Stähle/ aciers non alliés/ non alloyed steels < 700 N/mm2 Legierte Stähle/ aciers alliés/ alloyed steels 700 - 950 N/mm2



2.482112						Best.Nr. 2482..		Best.Nr. 2482..							
r	d1	d2	l1	Z	no.Commande	order no.	CHF	r	d1	d2	l1	Z	no.Commande	order no.	CHF
1.00	9.0	10	60	4	2482. 100		50.40	5.00	17	12	60	4	2482. 210		77.40
1.25	9.5	10	60	4	2482. 110		54.10	6.00	21	16	67	4	2482. 220		85.60
1.50	10.0	10	60	4	2482. 120		50.10	7.00	23	16	71	4	2482. 230		91.80
1.75	10.5	10	60	4	2482. 130		57.80	8.00	25	16	71	4	2482. 240		99.40
2.00	11.0	10	60	4	2482. 140		50.10	10.00	29	25	85	4	2482. 260		124.60
2.25	11.5	10	60	4	2482. 150		58.50	12.00	35	25	90	6	2482. 270		163.70
2.50	12.0	10	60	4	2482. 160		56.30	12.50	41	25	100	6	2482. 280		190.00
3.00	13.0	12	60	4	2482. 170		60.80	15.00	46	25	100	6	2482. 290		340.00
3.50	14.0	12	60	4	2482. 180		62.90	16.00	48	25	100	6	2482. 300		286.30
4.00	15.0	12	60	4	2482. 190		65.50	20.00	56	32	112	6	2482. 310		405.40
4.50	16.0	12	60	4	2482. 200		74.90								



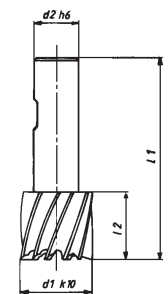
Walzenstirnfräser mit Zylinderschaft und Fläche, Schlicht- und Schrupp-Profil *Fraises 2 tailles en bout, queue cylindrique à méplat, profil de finition et d'ébauche* **Shell end mill, cylindrical shank with flats, finisher and rougher**

Werkstoff matières Material	Typ type typ	Spanwinkel Angle de coupe Rake angle	Spiralwinkel Angle hélice Spiral angle	Schneiden no. dents no.teeth	Haupteinsatz appl.princip. application	Norm standard standard	Norm Schaft stand. tiege standard shank	Weitere Ang. autres spec. miscellaneous
HSS-Co5	N NR	12° 10°	25° 27°	8 - 12 4 - 6	Plan und Umfang surfacier et contourner surface and contour standard factory	Werksnorm norme d'usine	DIN 1835A ISO 3338	Universalwerkzeug outil universel universal tool

2568.. (HSS-Co), 2568S..(HSS-Co): Zu bearbeitendes Material / matières applicables/materials: D2568.201
 Unlegierte Stähle/ aciers non alliés/ non alloyed steels < 700 N/mm2 Legierte Stähle/ aciers alliés/ alloyed steels 700 - 950 N/mm2



2.568112							HSS-Co		Best.Nr. 2568..		HSS-Co							Best.Nr. 2568..		
d1	d2	l2	l1	Z	order no.	CHF	d1	d2	l2	l1	Z	order no.	CHF	d1	d2	l2	l1	Z	order no.	CHF
16	10	15	60	8	2568. 160	51.90	30	16	25	80	12	2568. 300	134.60	32	20	30	90	12	2568. 320	165.50
18	10	15	60	8	2568. 180	60.60	35	20	30	90	12	2568. 350	200.30	40	20	30	90	12	2568. 400	227.20
20	10	15	60	8	2568. 200	73.70														
25	16	20	75	10	2568. 250	98.40														
28	16	25	80	10	2568. 280	117.80														



2.568S112							HSS-Co		Best.Nr. 2568S..		HSS-Co							Best.Nr. 2568S..		
d1	d2	l2	l1	Z	order no.	CHF	d1	d2	l2	l1	Z	order no.	CHF	d1	d2	l2	l1	Z	order no.	CHF
20	10	15	60	4	2568S. 200	99.90	32	20	30	90	5	2568S. 320	185.80	35	20	30	90	5	2568S. 350	221.20
25	16	20	75	4	2568S. 250	124.50	40	20	30	90	6	2568S. 400	223.90							
28	16	25	80	5	2568S. 280	144.40														
30	16	25	80	5	2568S. 300	160.50														

