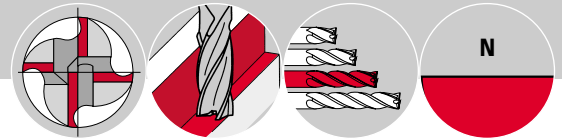


# Frese frontali, serie lunga

## Schaftfräser lange Ausführung

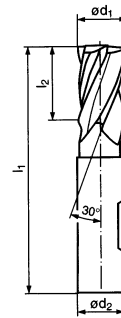


**Tipo N, ≈ 30° elica,  
12° angolo di spoglia,  
con codolo cilindrico  
secondo DIN 1835/1**

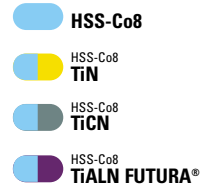
**End mills, long series**  
Type N, helix angle ≈ 30° rake angle 12°,  
with straight shank acc. DIN 1835/1

Typ N, ≈ 30° Drallwinkel,  
12° Spanwinkel,  
mit Zylinderschaft nach  
DIN 1835/1

**Fraises deux tailles, série longue**  
Type N, angle d'hélice ≈ 30°, angle  
de coupe 12°, avec queue cylindrique  
selon DIN 1835/1



**DIN 844L  
HSS-Co8**



Cat. Nr. - Kat. Nr. - Cat. no. - No. de cat.					4420	4420T	4420C	4420F
$\varnothing d1$ k <sub>10</sub>	l <sub>2</sub>	l <sub>1</sub>	$\varnothing d_2$	Z				
3	12	56	6	4	●	●	●	●
3,5	15	59	6	4	●	●	●	●
4	19	63	6	4	●	●	●	●
4,5	19	63	6	4	●	●	●	●
5	24	68	6	4	●	●	●	●
6	24	68	6	4	●	●	●	●
7	30	80	10	4	●	●	●	●
8	38	88	10	4	●	●	●	●
9	38	88	10	4	●	●	●	●
10	45	95	10	4	●	●	●	●
11	45	102	12	4	●	●	●	●
12	53	110	12	4	●	●	●	●
13*	53	110	12	4	●	●	●	●
14*	53	110	12	4	●	●	●	●
15*	53	110	12	4	●	●	●	●
16*	63	123	16	4	●	●	●	●
17*	63	123	16	4	●	●	●	●
18*	63	123	16	4	●	●	●	●
20*	75	141	20	4	●	●	●	●
22*	75	141	20	5	●	●	●	●
24*	90	166	25	5	●	●	●	●
25*	90	166	25	5	●	●	●	●
26*	90	166	25	5	●	●	●	●
28*	90	166	25	5	●	●	●	●
30*	90	166	25	5	●	●	●	●
32*	106	186	32	6	●	●	●	●
34*	106	186	32	6	■			
35*	106	186	32	6		■		■
36*	106	186	32	6	●	●	●	●
40*	125	217	40	6	●	●	●	●
45*	125	217	40	8	●	●	●	●
50*	150	252	50	8	●	●	●	●

● Utensile disponibile a magazzino - Tool in stock - Werkzeug vorrätig ab lager - Outil disponible à stock  
 ■ Fino ad esaurimento scorte - Solange der Vorrat reicht - Discontinued available until sold out - Jusqu'à épuisement de stock  
 \* Tolleranza h 10 - Toleranz h 10 - Tolerance h 10 - Tolérance h 10