

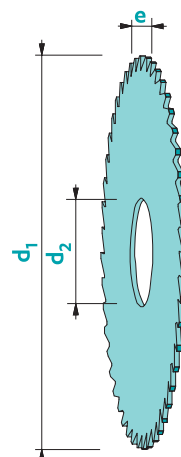
Fresa circolare DIN 1838 dentatura grossa

223

Materiale	Vc non rivestito	Vc rivestito	Senza rivestimento	Rivestito	Rivestimento consigliato*
Acciaio < 700 N/mm ²	80	120	□	■	Tisi (BQ)
Acciaio > 700 N/mm ²	60	100	□	■	Tisi (BQ)
Acciaio inox	60	100	□	■	Tisi (BQ)
Ghisa	50	90	□	■	Tisi (BQ)
Rame	200	300	□	■	Solo (DA)
Ottone - Bronzo	200	300	■	□	Solo (DA)
Alluminio	250	400	□	■	Solo (DA)
Oro - argento	150	300	□	■	Solo (DA)
Platino - Palladio	-	-	-	-	-
Superleghe	20	40	□	■	Trio (PO)
Titanio	40	60	■	■	Rico (ZB)

non adatto - adatto □ molto adatto ■

Tolleranze e: +/-0.01
d₂: H5



Art. n°	d ₁	e	d ₂	Z	Senza r.	Trio*	Art. n°	d ₁	e	d ₂	Z	Senza r.	Trio*
223d15e0.20a5Z20	15	0.20	5	20	▲	▲	223d15e3.10a5Z20	15	3.10	5	20	▲	▲
223d15e0.25a5Z20	15	0.25	5	20	▲	▲	223d15e3.20a5Z20	15	3.20	5	20	▲	▲
223d15e0.30a5Z20	15	0.30	5	20	▲	▲	223d15e3.30a5Z20	15	3.30	5	20	▲	▲
223d15e0.35a5Z20	15	0.35	5	20	▲	▲	223d15e3.40a5Z20	15	3.40	5	20	▲	▲
223d15e0.40a5Z20	15	0.40	5	20	▲	▲	223d15e3.50a5Z20	15	3.50	5	20	▲	▲
223d15e0.45a5Z20	15	0.45	5	20	▲	▲	223d15e3.60a5Z20	15	3.60	5	20	▲	▲
223d15e0.50a5Z20	15	0.50	5	20	▲	▲	223d15e3.70a5Z20	15	3.70	5	20	▲	▲
223d15e0.60a5Z20	15	0.60	5	20	▲	▲	223d15e3.80a5Z20	15	3.80	5	20	▲	▲
223d15e0.70a5Z20	15	0.70	5	20	▲	▲	223d15e3.90a5Z20	15	3.90	5	20	▲	▲
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223d15e0.90a5Z20	15	0.90	5	20	▲	▲	223d15e4.50a5Z20	15	4.50	5	20	▲	▲
223d15e1.00a5Z20	15	1.00	5	20	▲	▲	223d15e5.00a5Z20	15	5.00	5	20	▲	▲
223d15e1.10a5Z20	15	1.10	5	20	▲	▲	223d15e5.50a5Z20	15	5.50	5	20	▲	▲
223d15e1.20a5Z20	15	1.20	5	20	▲	▲	223d15e6.00a5Z20	15	6.00	5	20	▲	▲
223d15e1.30a5Z20	15	1.30	5	20	▲	▲	223d20e0.20a5Z20	20	0.20	5	20	▲	▲
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223d15e1.50a5Z20	15	1.50	5	20	▲	▲	223d20e0.30a5Z20	20	0.30	5	20	▲	▲
223d15e1.60a5Z20	15	1.60	5	20	▲	▲	223d20e0.35a5Z20	20	0.35	5	20	▲	▲
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223d15e1.90a5Z20	15	1.90	5	20	▲	▲	223d20e0.50a5Z20	20	0.50	5	20	▲	▲
223d15e2.00a5Z20	15	2.00	5	20	▲	▲	223d20e0.60a5Z20	20	0.60	5	20	▲	▲
223d15e2.10a5Z20	15	2.10	5	20	▲	▲	223d20e0.70a5Z20	20	0.70	5	20	▲	▲
223d15e2.20a5Z20	15	2.20	5	20	▲	▲	223d20e0.80a5Z20	20	0.80	5	20	▲	▲
223d15e2.30a5Z20	15	2.30	5	20	▲	▲	223d20e0.90a5Z20	20	0.90	5	20	▲	▲
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223d15e2.90a5Z20	15	2.90	5	20	▲	▲	223d20e1.50a5Z20	20	1.50	5	20	▲	▲
223d15e3.00a5Z20	15	3.00	5	20	▲	▲	223d20e1.60a5Z20	20	1.60	5	20	▲	▲

Disponibile con o senza rivestimento (vedi pagina 308)



Z
20-80



λ
0°

γ
8°

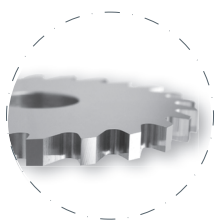
CARB

* Prezzi per altri rivestimenti: contattateci!

Per ordinare un utensile rivestito, aggiungere il codice di rivestimento di 2 lettere al numero di articolo.



Fresa circolare DIN 1838 dentatura grossa



Disponibile con o
senza rivestimento
(vedi pagina 308)



Z
20-80



λ
0°

γ
8°

CARB

Art. n°	d ₁	e	d ₂	Z	Senza r.		Trio*
223d20e1.70a5Z20	20	1.70	5	20	▲	▲	
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223d20e3.10a5Z20	20	3.10	5	20	▲	▲	
223d20e3.20a5Z20	20	3.20	5	20	▲	▲	
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223d20e6.00a5Z20	20	6.00	5	20	▲	▲	
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223d25e3.20a8Z20	25	3.20	8	20	▲	▲	
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223d30e1.80a8Z24	30	1.80	8	24	▲	▲	

* Prezzi per altri rivestimenti: contattateci!

Per ordinare un utensile rivestito, aggiungere il codice di rivestimento di 2 lettere al numero di articolo.

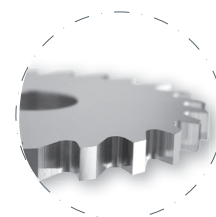


Fresa circolare DIN 1838 dentatura grossa

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Continua

Art. n°	d ₁	e	d ₂	Z		
					Senza r.	Trio*
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223d30e2.80a8Z24	30	2.80	8	24	▲	▲
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223d40e2.10a10Z24	40	2.10	10	24	▲	▲
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223d50e0.60a13Z40	50	0.60	13	40	▲	▲
223d50e0.70a13Z40	50	0.70	13	40	▲	▲
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223d50e0.90a13Z40	50	0.90	13	40	▲	▲
223d50e1.00a13Z40	50	1.00	13	40	▲	▲
223d50e1.10a13Z40	50	1.10	13	40	▲	▲
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223d50e1.80a13Z32	50	1.80	13	32	▲	▲
223d50e1.90a13Z32	50	1.90	13	32	▲	▲
223d50e2.00a13Z32	50	2.00	13	32	▲	▲
223d50e2.10a13Z32	50	2.10	13	32	▲	▲
223d50e2.20a13Z32	50	2.20	13	32	▲	▲
223d50e2.30a13Z32	50	2.30	13	32	▲	▲
223d50e2.40a13Z32	50	2.40	13	32	▲	▲



Disponibile con o
senza rivestimento
(vedi pagina 308)



Z
20-80



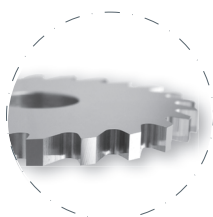
λ
0°

γ
8°

CARB

* Prezzi per altri rivestimenti: contattateci!

Per ordinare un utensile rivestito, aggiungere il codice di rivestimento di 2 lettere al numero di articolo.



Disponibile con o
senza rivestimento
(vedi pagina 308)



Z
20-80



λ
0°

γ
8°

CARB

Art. n°	d ₁	e	d ₂	Z	Senza r. Trio*	
223d50e2.50a13Z32	50	2.50	13	32	▲	▲
223d50e2.60a13Z24	50	2.60	13	24	▲	▲
223d50e2.70a13Z24	50	2.70	13	24	▲	▲
223d50e2.80a13Z24	50	2.80	13	24	▲	▲
223d50e2.90a13Z24	50	2.90	13	24	▲	▲
223d50e3.00a13Z24	50	3.00	13	24	▲	▲
223d50e3.10a13Z24	50	3.10	13	24	▲	▲
223d50e3.20a13Z24	50	3.20	13	24	▲	▲
223d50e3.30a13Z24	50	3.30	13	24	▲	▲
223d50e3.40a13Z24	50	3.40	13	24	▲	▲
223d50e3.50a13Z24	50	3.50	13	24	▲	▲
223d50e3.60a13Z24	50	3.60	13	24	▲	▲
223d50e3.70a13Z24	50	3.70	13	24	▲	▲
223d50e3.80a13Z24	50	3.80	13	24	▲	▲
223d50e3.90a13Z24	50	3.90	13	24	▲	▲
223d50e4.00a13Z24	50	4.00	13	24	▲	▲
223d50e4.50a13Z24	50	4.50	13	24	▲	▲
223d50e5.00a13Z24	50	5.00	13	24	▲	▲
223d50e5.50a13Z20	50	5.50	13	20	▲	▲
223d50e6.00a13Z20	50	6.00	13	20	▲	▲
223d63e0.40a16Z64	63	0.40	16	64	▲	▲
223d63e0.45a16Z64	63	0.45	16	64	▲	▲
223d63e0.50a16Z64	63	0.50	16	64	▲	▲
223d63e0.60a16Z48	63	0.60	16	48	▲	▲
223d63e0.70a16Z48	63	0.70	16	48	▲	▲
223d63e0.80a16Z48	63	0.80	16	48	▲	▲
223d63e0.90a16Z48	63	0.90	16	48	▲	▲
223d63e1.00a16Z40	63	1.00	16	40	▲	▲
223d63e1.10a16Z40	63	1.10	16	40	▲	▲
223d63e1.20a16Z40	63	1.20	16	40	▲	▲
223d63e1.30a16Z40	63	1.30	16	40	▲	▲
223d63e1.40a16Z40	63	1.40	16	40	▲	▲
223d63e1.50a16Z40	63	1.50	16	40	▲	▲
223d63e1.60a16Z40	63	1.60	16	40	▲	▲
223d63e1.70a16Z40	63	1.70	16	40	▲	▲
223d63e1.80a16Z40	63	1.80	16	40	▲	▲
223d63e1.90a16Z40	63	1.90	16	40	▲	▲
223d63e2.00a16Z40	63	2.00	16	40	▲	▲
223d63e2.10a16Z32	63	2.10	16	32	▲	▲
223d63e2.20a16Z32	63	2.20	16	32	▲	▲
223d63e2.30a16Z32	63	2.30	16	32	▲	▲
223d63e2.40a16Z32	63	2.40	16	32	▲	▲
223d63e2.50a16Z32	63	2.50	16	32	▲	▲
223d63e2.60a16Z32	63	2.60	16	32	▲	▲
223d63e2.70a16Z32	63	2.70	16	32	▲	▲
223d63e2.80a16Z32	63	2.80	16	32	▲	▲
223d63e2.90a16Z32	63	2.90	16	32	▲	▲

Art. n°	d ₁	e	d ₂	Z	Senza r. Trio*	
223d63e3.00a16Z32	63	3.00	16	32	▲	▲
223d63e3.10a16Z32	63	3.10	16	32	▲	▲
223d63e3.20a16Z32	63	3.20	16	32	▲	▲
223d63e3.30a16Z32	63	3.30	16	32	▲	▲
223d63e3.40a16Z32	63	3.40	16	32	▲	▲
223d63e3.50a16Z32	63	3.50	16	32	▲	▲
223d63e3.60a16Z32	63	3.60	16	32	▲	▲
223d63e3.70a16Z32	63	3.70	16	32	▲	▲
223d63e3.80a16Z32	63	3.80	16	32	▲	▲
223d63e3.90a16Z32	63	3.90	16	32	▲	▲
223d63e4.00a16Z32	63	4.00	16	32	▲	▲
223d63e4.50a16Z24	63	4.50	16	24	▲	▲
223d63e5.00a16Z24	63	5.00	16	24	▲	▲
223d63e5.50a16Z24	63	5.50	16	24	▲	▲
223d63e6.00a16Z24	63	6.00	16	24	▲	▲
223d80e0.60a22Z64	80	0.60	22	64	▲	▲
223d80e0.70a22Z64	80	0.70	22	64	▲	▲
223d80e0.80a22Z64	80	0.80	22	64	▲	▲
223d80e0.90a22Z48	80	0.90	22	48	▲	▲
223d80e1.00a22Z48	80	1.00	22	48	▲	▲
223d80e1.10a22Z48	80	1.10	22	48	▲	▲
223d80e1.20a22Z48	80	1.20	22	48	▲	▲
223d80e1.30a22Z48	80	1.30	22	48	▲	▲
223d80e1.40a22Z48	80	1.40	22	48	▲	▲
223d80e1.50a22Z48	80	1.50	22	48	▲	▲
223d80e1.60a22Z48	80	1.60	22	48	▲	▲
223d80e1.70a22Z40	80	1.70	22	40	▲	▲
223d80e1.80a22Z40	80	1.80	22	40	▲	▲
223d80e1.90a22Z40	80	1.90	22	40	▲	▲
223d80e2.00a22Z40	80	2.00	22	40	▲	▲
223d80e2.10a22Z40	80	2.10	22	40	▲	▲
223d80e2.20a22Z40	80	2.20	22	40	▲	▲
223d80e2.30a22Z40	80	2.30	22	40	▲	▲
223d80e2.40a22Z40	80	2.40	22	40	▲	▲
223d80e2.50a22Z40	80	2.50	22	40	▲	▲
223d80e2.60a22Z40	80	2.60	22	40	▲	▲
223d80e2.70a22Z40	80	2.70	22	40	▲	▲
223d80e2.80a22Z40	80	2.80	22	40	▲	▲
223d80e2.90a22Z40	80	2.90	22	40	▲	▲
223d80e3.00a22Z40	80	3.00	22	40	▲	▲
223d80e3.10a22Z32	80	3.10	22	32	▲	▲
223d80e3.20a22Z32	80	3.20	22	32	▲	▲
223d80e3.30a22Z32	80	3.30	22	32	▲	▲
223d80e3.40a22Z32	80	3.40	22	32	▲	▲
223d80e3.50a22Z32	80	3.50	22	32	▲	▲
223d80e3.60a22Z32	80	3.60	22	32	▲	▲
223d80e3.70a22Z32	80	3.70	22	32	▲	▲

* Prezzi per altri rivestimenti: contattateci!

Per ordinare un utensile rivestito, aggiungere il codice di rivestimento di 2 lettere al numero di articolo.

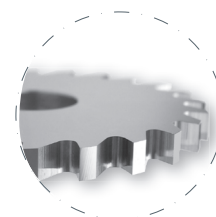


Fresa circolare DIN 1838 dentatura grossa

223

Continua

Art. n°	d ₁	e	d ₂	Z		
					Senza r.	Trio*
223d80e3.80a22Z32	80	3.80	22	32	▲	▲
223d80e3.90a22Z32	80	3.90	22	32	▲	▲
223d80e4.00a22Z32	80	4.00	22	32	▲	▲
223d80e4.50a22Z32	80	4.50	22	32	▲	▲
223d80e5.00a22Z32	80	5.00	22	32	▲	▲
223d80e5.50a22Z32	80	5.50	22	32	▲	▲
223d80e6.00a22Z32	80	6.00	22	32	▲	▲
223d100e0.60a22Z80	100	0.60	22	80	▲	▲
223d100e0.70a22Z64	100	0.70	22	64	▲	▲
223d100e0.80a22Z64	100	0.80	22	64	▲	▲
223d100e0.90a22Z64	100	0.90	22	64	▲	▲
223d100e1.00a22Z64	100	1.00	22	64	▲	▲
223d100e1.10a22Z64	100	1.10	22	64	▲	▲
223d100e1.20a22Z64	100	1.20	22	64	▲	▲
223d100e1.30a22Z48	100	1.30	22	48	▲	▲
223d100e1.40a22Z48	100	1.40	22	48	▲	▲
223d100e1.50a22Z48	100	1.50	22	48	▲	▲
223d100e1.60a22Z48	100	1.60	22	48	▲	▲
223d100e1.70a22Z48	100	1.70	22	48	▲	▲
223d100e1.80a22Z48	100	1.80	22	48	▲	▲
223d100e1.90a22Z48	100	1.90	22	48	▲	▲
223d100e2.00a22Z48	100	2.00	22	48	▲	▲
223d100e2.10a22Z48	100	2.10	22	48	▲	▲
223d100e2.20a22Z48	100	2.20	22	48	▲	▲
223d100e2.30a22Z48	100	2.30	22	48	▲	▲
223d100e2.40a22Z48	100	2.40	22	48	▲	▲
223d100e2.50a22Z48	100	2.50	22	48	▲	▲
223d100e2.60a22Z40	100	2.60	22	40	▲	▲
223d100e2.70a22Z40	100	2.70	22	40	▲	▲
223d100e2.80a22Z40	100	2.80	22	40	▲	▲
223d100e2.90a22Z40	100	2.90	22	40	▲	▲
223d100e3.00a22Z40	100	3.00	22	40	▲	▲
223d100e3.10a22Z40	100	3.10	22	40	▲	▲
223d100e3.20a22Z40	100	3.20	22	40	▲	▲
223d100e3.30a22Z40	100	3.30	22	40	▲	▲
223d100e3.40a22Z40	100	3.40	22	40	▲	▲
223d100e3.50a22Z40	100	3.50	22	40	▲	▲
223d100e3.60a22Z40	100	3.60	22	40	▲	▲
223d100e3.70a22Z40	100	3.70	22	40	▲	▲
223d100e3.80a22Z40	100	3.80	22	40	▲	▲
223d100e3.90a22Z40	100	3.90	22	40	▲	▲
223d100e4.00a22Z40	100	4.00	22	40	▲	▲
223d100e4.50a22Z40	100	4.50	22	40	▲	▲
223d100e5.00a22Z40	100	5.00	22	40	▲	▲
223d100e5.50a22Z32	100	5.50	22	32	▲	▲
223d100e6.00a22Z32	100	6.00	22	32	▲	▲
223d125e0.80a22Z80	125	0.80	22	80	▲	▲
223d125e0.90a22Z80	125	0.90	22	80	▲	▲
223d125e1.00a22Z80	125	1.00	22	80	▲	▲
223d125e1.10a22Z64	125	1.10	22	64	▲	▲
223d125e1.20a22Z64	125	1.20	22	64	▲	▲
223d125e1.30a22Z64	125	1.30	22	64	▲	▲
223d125e1.40a22Z64	125	1.40	22	64	▲	▲
223d125e1.50a22Z64	125	1.50	22	64	▲	▲
223d125e1.60a22Z64	125	1.60	22	64	▲	▲
223d125e1.70a22Z64	125	1.70	22	64	▲	▲
223d125e1.80a22Z64	125	1.80	22	64	▲	▲
223d125e1.90a22Z64	125	1.90	22	64	▲	▲
223d125e2.00a22Z64	125	2.00	22	64	▲	▲
223d125e2.10a22Z48	125	2.10	22	48	▲	▲
223d125e2.20a22Z48	125	2.20	22	48	▲	▲
223d125e2.30a22Z48	125	2.30	22	48	▲	▲
223d125e2.40a22Z48	125	2.40	22	48	▲	▲
223d125e2.50a22Z48	125	2.50	22	48	▲	▲
223d125e2.60a22Z48	125	2.60	22	48	▲	▲
223d125e2.70a22Z48	125	2.70	22	48	▲	▲
223d125e2.80a22Z48	125	2.80	22	48	▲	▲
223d125e2.90a22Z48	125	2.90	22	48	▲	▲
223d125e3.00a22Z48	125	3.00	22	48	▲	▲
223d125e3.10a22Z48	125	3.10	22	48	▲	▲
223d125e3.20a22Z48	125	3.20	22	48	▲	▲
223d125e3.30a22Z48	125	3.30	22	48	▲	▲
223d125e3.40a22Z48	125	3.40	22	48	▲	▲
223d125e3.50a22Z48	125	3.50	22	48	▲	▲
223d125e3.60a22Z48	125	3.60	22	48	▲	▲
223d125e3.70a22Z48	125	3.70	22	48	▲	▲
223d125e3.80a22Z48	125	3.80	22	48	▲	▲
223d125e3.90a22Z48	125	3.90	22	48	▲	▲
223d125e4.00a22Z48	125	4.00	22	48	▲	▲
223d125e4.50a22Z40	125	4.50	22	40	▲	▲
223d125e5.00a22Z40	125	5.00	22	40	▲	▲
223d125e5.50a22Z40	125	5.50	22	40	▲	▲
223d125e6.00a22Z40	125	6.00	22	40	▲	▲
223d160e1.00a32Z80	160	1.00	32	80	▲	▲
223d160e1.20a32Z80	160	1.20	32	80	▲	▲
223d160e1.50a32Z80	160	1.50	32	80	▲	▲
223d160e2.00a32Z80	160	2.00	32	80	▲	▲
223d160e2.50a32Z80	160	2.50	32	80	▲	▲
223d160e3.00a32Z64	160	3.00	32	64	▲	▲



Disponibile con o
senza rivestimento
(vedi pagina 308)



Z
20-80



λ
0°

γ
8°

CARB

* Prezzi per altri rivestimenti: contattateci!

Per ordinare un utensile rivestito, aggiungere il codice di rivestimento di 2 lettere al numero di articolo.