



Rainurage / Slotting / Langlochfräser / Ranurado

Queue conique / Morse taper shank / Morsekegelschaft / Mango conico

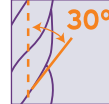
8 **03039** 1

HSS
E8



DiN
326 D

z = 2



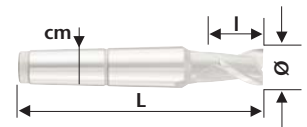
e8



Applications
Anwendungen
Aplicaciones



Vf, Vc, Fz
p. 133



Ø mm	cm	L	I	Z	Ø mm	cm	L	I	Z	Ø mm	cm	L	I	Z
12	CM2	101	16	2	24	CM3	128	26	2	36	CM4	157	32	2
14	CM2	101	16	2	25	CM3	128	26	2	40	CM4	163	38	2
16	CM2	104	19	2	26	CM3	128	26	2	50	CM4	170	45	2
18	CM2	104	19	2	28	CM3	128	26	2					
20	CM2	107	22	2	30	CM3	128	26	2					
22	CM2	107	22	2	32	CM3	134	32	2					

8 **03465** 1

HSS
E8



DiN
845
B/K

z = 2



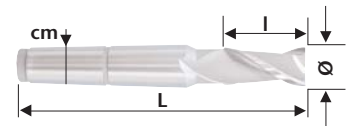
e8



Applications
Anwendungen
Aplicaciones



Vf, Vc, Fz
p. 133



Ø mm	cm	L	I	Ø mm	cm	L	I	Ø mm	cm	L	I	Ø mm	cm	L	I
12	CM2	111	26	18	CM2	117	32	25	CM3	147	45	32	CM3	178	53
14	CM2	111	26	20	CM2	123	38	26	CM3	147	45	36	CM4	178	53
15	CM2	111	26	22	CM2	123	38	28	CM3	147	45	40	CM4	188	63
16	CM2	117	32	24	CM3	147	45	30	CM3	147	45	50	CM4	200	75

? OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Finition fraisage combiné / Multi-purpose milling & finishing /
Umfangsbearbeitung / Fresas de acabado

Queue conique / Morse taper shank / Morsekegelschaft / Mango conico

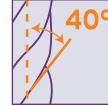
8 **03042** 1

HSS
E8

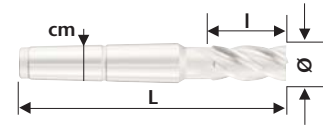


DiN
845
B/K

z =
4-6



Applications
Anwendungen
Aplicaciones



HIGH CUT 03645 p. 85

Vf, Vc, Fz
p. 133

Ø mm	cm	L	I	Z	Ø mm	cm	L	I	Z	Ø mm	cm	L	I	Z
12	CM2	111	26	4	22	CM3	140	38	4	32	CM4	178	53	6
14	CM2	111	26	4	24	CM3	147	45	4	36	CM4	178	53	6
16	CM2	117	32	4	25	CM3	147	45	6	40	CM4	188	63	6
18	CM2	117	32	4	26	CM3	147	45	6	50	CM4	200	75	6
20	CM2	123	38	4	28	CM3	147	45	6					
22	CM2	123	38	4	30	CM3	147	45	6					
20	CM3	140	38	4	32	CM3	155	53	6					

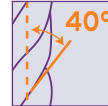
8 **03645** 1

HSS
E8

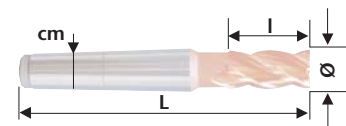


DiN
845
B/K

z =
4-6



Applications
Anwendungen
Aplicaciones



Ø mm	cm	L	I	Z	Ø mm	cm	L	I	Z	Ø mm	cm	L	I	Z
20	CM2	123	38	4	28	CM3	147	45	6	32	CM4	178	53	6
22	CM3	140	38	4	30	CM3	147	45	6					
25	CM3	147	45	6	32	CM3	155	53	6					

? OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Umfangsbearbeitung / Fresas de acabado

Queue conique / Morse taper shank / Morsekegelschaft / Mango conico

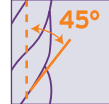
8 **03047** 1

HSS
E8



DiN
845
B/K

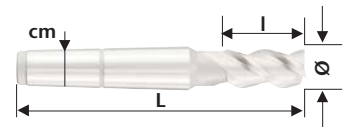
z =
3-4



Applications
Anwendungen
Aplicaciones



Vf, Vc, Fz
p. 133



Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
12	CM2	111	26	3	22	CM2	123	38	3	36	CM4	178	53	3
14	CM2	111	26	3	25	CM3	147	45	3	40	CM4	188	63	4
16	CM2	117	32	3	28	CM3	147	45	3	50	CM4	200	75	4
18	CM2	117	32	3	30	CM3	147	45	3					
20	CM2	123	38	3	32	CM4	178	53	3					

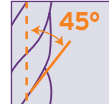
8 **03086** 1

HSS
PM



DiN
845
B/K

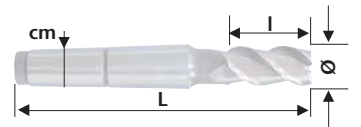
z =
3-4



Applications
Anwendungen
Aplicaciones



Vf, Vc, Fz
p. 133



Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
16	CM2	117	32	3	25	CM3	147	45	4	36	CM4	178	53	4
18	CM2	117	32	4	28	CM3	147	45	4	40	CM4	188	63	4
20	CM2	123	38	4	30	CM3	147	45	4	50	CM4	200	75	4
22	CM3	123	38	4	32	CM4	178	53	4					



OUTILS SPÉCIAUX - SPECIAL TOOLS

Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?

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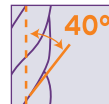
8 **03045** 1

HSS
E8

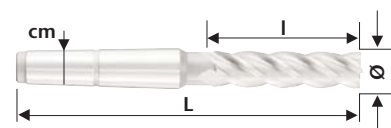


DiN
845
B/L

z =
4-6



Applications
Anwendungen
Aplicaciones



HIGH CUT 03646 p. 87

Vf, Vc, Fz
p. 133

Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
12	CM2	138	53	4	20	CM3	177	75	4	32	CM4	231	106	6
14	CM2	138	53	4	22	CM3	177	75	4	36	CM4	231	106	6
16	CM2	148	63	4	25	CM3	192	90	6	40	CM4	250	125	6
18	CM2	148	63	4	28	CM3	192	90	6	50	CM4	275	150	6
20	CM2	160	75	4	32	CM3	208	106	6					
22	CM2	160	75	4	30	CM4	215	90	6					

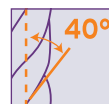
8 **03646** 1

HSS
E8

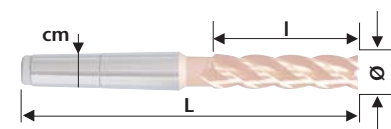
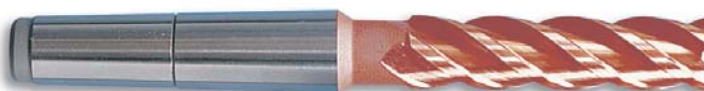


DiN
845
B/L

z =
4-6



Applications
Anwendungen
Aplicaciones



Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
16	CM2	148	63	4	20	CM3	177	75	4	32	CM3	208	106	6
20	CM2	160	75	4	25	CM3	192	90	6	32	CM4	231	106	6

? OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Queue conique / Morse taper shank / Morsekegelschaft / Mango conico

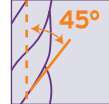
8 **03048** 1

HSS
E8



DiN
845
B/L

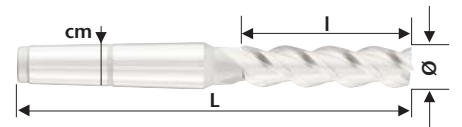
z =
3-4



Applications
Anwendungen
Aplicaciones



Vf, Vc, Fz
p. 133



Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
16	CM2	148	63	3	22	CM3	177	75	3	32	CM4	231	106	3
18	CM2	148	63	3	25	CM3	192	90	3	36	CM4	231	106	3
20	CM2	160	75	3	28	CM3	192	90	3	40	CM4	250	125	4
22	CM2	160	75	3	32	CM3	208	106	3	50	CM4	275	150	4
20	CM3	177	75	3	30	CM4	192	90	3					

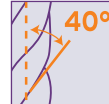
8 **03046** 1

HSS
E8



Perfor
Norm

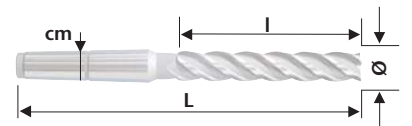
z =
4-6



Applications
Anwendungen
Aplicaciones



Vf, Vc, Fz
p. 133



Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
16	CM2	180	95	4	25	CM3	227	125	6	40	CM4	305	180	6
18	CM2	185	100	4	30	CM4	265	140	6	50	CM4	325	200	6
20	CM3	212	110	4	32	CM4	285	160	6					
22	CM3	212	110	4	36	CM4	285	160	6					

? OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
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Ebauche / Roughing / Schruppfräser / Desbaste

Queue conique / Morse taper shank / Morsekegelschaft / Mango conico

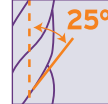
8 **03054** 1

HSS E8



DiN 845 B/K

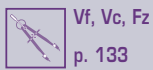
z = 4-6



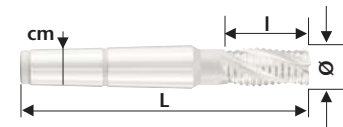
TYP NF



Applications
Anwendungen
Aplicaciones



Semi finition,
Semi finishing end mills
Schaftschruppschlichtfräser
Semi acabado



Ø mm	cm	L	I	Z	Ø mm	cm	L	I	Z	Ø mm	cm	L	I	Z
12	CM2	111	26	4	22	CM3	123	38	4	36	CM4	178	53	6
14	CM2	111	26	4	25	CM3	147	45	4	40	CM4	188	63	6
16	CM2	117	32	4	28	CM3	147	45	6	50	CM4	200	75	6
18	CM2	117	32	4	30	CM3	147	45	6					
20	CM2	123	38	4	32	CM4	178	53	6					

8 **03680** 1

HSS E8



DiN 845 B/K

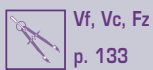
z = 4-6



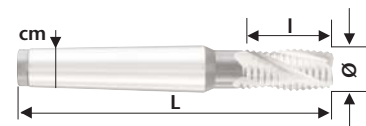
TYP NR



Applications
Anwendungen
Aplicaciones



new
nouveau



Ø mm	cm	L	I	Z	Ø mm	cm	L	I	Z	Ø mm	cm	L	I	Z
12	CM2	111	26	4	22	CM3	123	38	4	36	CM4	178	53	6
14	CM2	111	26	4	25	CM3	147	45	4	40	CM4	188	63	6
16	CM2	117	32	4	28	CM3	147	45	6	50	CM4	200	75	6
18	CM2	117	32	4	30	CM3	147	45	6					
20	CM2	123	38	4	32	CM4	178	53	6					

? **OUTILS SPÉCIAUX - SPECIAL TOOLS**
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Ebauche / Roughing / Schruppfräser / Desbaste

Queue conique / Morse taper shank / Morsekegelschaft / Mango conico

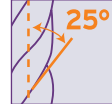
8 **03051** 1

HSS
PM



DiN
845
B/K

z =
4-6



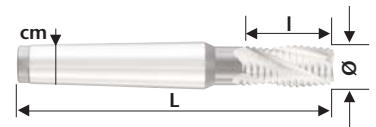
TYP
NR



Applications
Anwendungen
Aplicaciones



Vf, Vc, Fz
p. 133



Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
12	CM2	111	26	4	22	CM3	123	38	4	36	CM4	178	53	6
14	CM2	111	26	4	25	CM3	147	45	4	40	CM4	188	63	6
16	CM2	117	32	4	28	CM3	147	45	6	45	CM4	188	63	6
18	CM2	117	32	4	30	CM3	147	45	6	50	CM4	200	75	6
20	CM2	123	38	4	32	CM4	178	53	6					

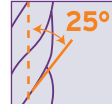
8 **03060** 1

HSS
E8



DiN
845
B/L

z =
4-6



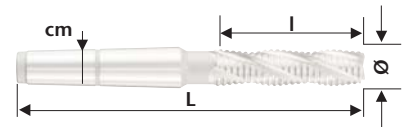
TYP
NF



Applications
Anwendungen
Aplicaciones



Vf, Vc, Fz
p. 133



Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
16	CM2	148	63	4	22	CM3	177	75	4	32	CM4	231	106	6
18	CM2	148	63	4	25	CM3	192	90	4	36	CM4	231	106	6
20	CM2	160	75	4	28	CM3	192	90	6	40	CM4	250	125	6
22	CM2	160	75	4	32	CM3	208	106	6	45	CM4	250	125	6
20	CM3	177	75	4	30	CM4	215	90	6	50	CM4	275	150	6

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Other dimension / Coating / Application ?
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Ebauche / Roughing / Schruppfräser / Desbaste

Queue conique / Morse taper shank / Morsekegelschaft / Mango conico

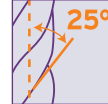
8 **03681** 1

HSS
E8



DiN
845
B/L

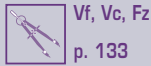
z =
4-6



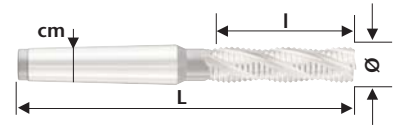
TYP
NR



Applications
Anwendungen
Aplicaciones



new
nouveau



Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
16	CM2	148	63	4	25	CM3	192	90	4	36	CM4	231	106	6
18	CM2	148	63	4	28	CM3	192	90	6	40	CM4	250	125	6
20	CM3	160	75	4	30	CM4	215	90	6	50	CM4	275	150	6
22	CM3	177	75	4	32	CM4	231	106	6					

8 **03057** 1

HSS
PM



DiN
845
B/L

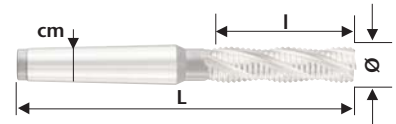
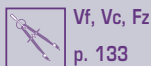
z =
4-6



TYP
NR



Applications
Anwendungen
Aplicaciones



Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
16	CM2	148	63	4	25	CM3	192	90	4	36	CM4	231	106	6
18	CM2	148	63	4	28	CM3	192	90	6	40	CM4	250	125	6
20	CM3	160	75	4	30	CM4	214	90	6	45	CM4	250	125	6
22	CM3	177	75	4	32	CM4	231	106	6	50	CM4	275	150	6

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Other dimension / Coating / Application ?
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Bout hémisphérique / Ball nosed / Runder Stirn / Punta esférica

Queue conique / Morse taper shank / Morsekegelschaft / Mango conico

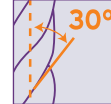
8 **03140** 1

HSS
E8



DiN
845
B/K

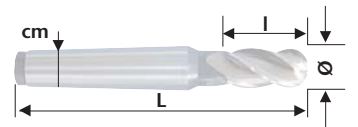
z =
4-6



Applications
Anwendungen
Aplicaciones



Vf, Vc, Fz
p. 133



Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z	Ø mm	cm	L	l	Z
12	CM2	111	26	4	25	CM3	147	45	4	36	CM4	178	53	6
16	CM2	117	32	4	28	CM3	147	45	6	40	CM4	188	63	6
20	CM2	123	38	4	30	CM3	147	45	6	50	CM4	200	75	6
24	CM3	147	45	4	32	CM4	178	53	6					

? **OUTILS SPÉCIAUX - SPECIAL TOOLS**
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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