



Rainurage / Slotting / Langlochfräser / Ranurado

z = 1

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilindrico

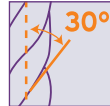
8 03088 1

HSS E8



Perfor Norm

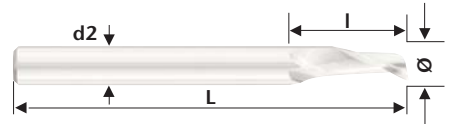
z = 1



Applications
Anwendungen
Aplicaciones



Vc, Fz
p. 133



Ø mm	d2	L	l	Z	Ø mm	d2	L	l	Z	Ø mm	d2	L	l	Z
4	8	60	12	1	6	8	60	14	1	10	8	80	14	1
5	8	60	14	1	7	8	60	14	1	10	10	130	17	1
5	8	80	14	1	8	8	80	14	1					
5	8	120	14	1	8	8	130	17	1					

OUTILS SPÉCIAUX

- Revêtements sur demande
- Coatings on request
- Beschichtungen auf Anfrage
- Recubrimientos bajo pedido



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Special tools
Sonderwerkzeuge
Fresas especiales



- AL CUT
- HARD CUT
- HIGH CUT
- INO CUT
- SLIDE CUT
- TiAIN
- TiN
- ULTRA CUT
- CrC
- CrN
- TiCN
- Xtreme
- ...



Rainurage / Slotting / Langlochfräser / Ranurado

z = 2

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilíndrico

8 **03003** 1

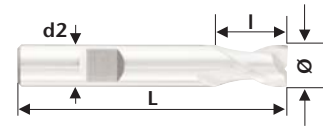
HSS E8 DiN 327 D z = 2 30° e8

Applications
Anwendungen
Aplicaciones

A B **C D E**



HIGH CUT 03649 p. 48 Vc, Fz p. 133



Ø mm	d2	L	I	Z	Ø mm	d2	L	I	Z	Ø mm	d2	L	I	Z
1	6	47	2,5	2	5,6	6	52	8	2	9,4	10	61	11	2
1,5	6	47	3	2	5,7	6	52	8	2	9,5	10	61	11	2
2	6	48	4	2	5,8	6	52	8	2	9,6	10	63	13	2
2,1	6	48	4	2	5,9	6	52	8	2	9,7	10	63	13	2
2,2	6	48	4	2	6	6	52	8	2	9,8	10	63	13	2
2,3	6	48	4	2	6,1	10	60	10	2	9,9	10	63	13	2
2,4	6	49	5	2	6,2	10	60	10	2	10	10	63	13	2
2,5	6	49	5	2	6,3	10	60	10	2	10,5	12	70	13	2
2,6	6	49	5	2	6,4	10	60	10	2	11	12	70	13	2
2,7	6	49	5	2	6,5	10	60	10	2	11,5	12	70	13	2
2,8	6	49	5	2	6,6	10	60	10	2	12	12	73	16	2
2,9	6	49	5	2	6,7	10	60	10	2	12,5	12	73	16	2
3	6	49	5	2	6,8	10	60	10	2	13	12	73	16	2
3,1	6	50	6	2	6,9	10	60	10	2	13,5	12	73	16	2
3,2	6	50	6	2	7	10	60	10	2	14	12	73	16	2
3,3	6	50	6	2	7,1	10	60	10	2	14,5	12	73	16	2
3,4	6	50	6	2	7,2	10	60	10	2	15	12	73	16	2
3,5	6	50	6	2	7,3	10	60	10	2	15,5	16	79	19	2
3,6	6	50	6	2	7,4	10	60	10	2	16	16	79	19	2
3,7	6	50	6	2	7,5	10	60	10	2	16,5	16	79	19	2
3,8	6	51	7	2	7,6	10	61	11	2	17	16	79	19	2
3,9	6	51	7	2	7,7	10	61	11	2	17,5	16	79	19	2
4	6	51	7	2	7,8	10	61	11	2	18	16	79	19	2
4,1	6	51	7	2	7,9	10	61	11	2	18,5	16	79	19	2
4,2	6	51	7	2	8	10	61	11	2	19	16	79	19	2
4,3	6	51	7	2	8,1	10	61	11	2	19,5	20	88	22	2
4,4	6	51	7	2	8,2	10	61	11	2	20	20	88	22	2
4,5	6	51	7	2	8,3	10	61	11	2	22	20	88	22	2
4,6	6	51	7	2	8,4	10	61	11	2	24	25	102	26	2
4,7	6	51	7	2	8,5	10	61	11	2	25	25	102	26	2
4,8	6	52	8	2	8,6	10	61	11	2	26	25	102	26	2
4,9	6	52	8	2	8,7	10	61	11	2	28	25	102	26	2
5	6	52	8	2	8,8	10	61	11	2	30	25	102	26	2
5,1	6	52	8	2	8,9	10	61	11	2	32	32	112	32	2
5,2	6	52	8	2	9	10	61	11	2	36	32	112	32	2
5,3	6	52	8	2	9,1	10	61	11	2	40	40	130	38	2
5,4	6	52	8	2	9,2	10	61	11	2					
5,5	6	52	8	2	9,3	10	61	11	2					

? OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Rainurage / Slotting / Langlochfräser / Ranurado

z = 2

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilindrico

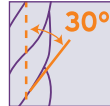
8 03649 1

HSS E8



DiN 327 D

z = 2



e8

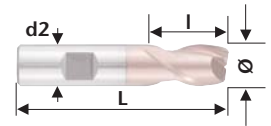
HIGH CUT

Applications
Anwendungen
Aplicaciones

CDE FGH



Vc, Fz
p. 133



Ø mm	d2	L	l	Z	Ø mm	d2	L	l	Z	Ø mm	d2	L	l	Z
1	6	47	2,5	2	6	6	52	8	2	16	16	79	19	2
2	6	48	4	2	8	10	61	11	2	18	16	79	19	2
3	6	49	5	2	10	10	63	13	2	20	20	88	22	2
4	6	51	7	2	12	12	73	16	2	22	20	88	22	2
5	6	52	8	2	14	12	73	16	2	25	25	102	26	2

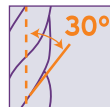
8 03013 1

HSS E8



DiN 844 B/K

z = 2



e8



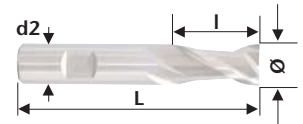
Applications
Anwendungen
Aplicaciones

AB CDE



HIGH CUT 03615 p. 49

Vc, Fz
p. 133



Ø mm	d2	L	l	Z	Ø mm	d2	L	l	Z	Ø mm	d2	L	l	Z
2	6	51	7	2	7	10	66	16	2	14	12	83	26	2
2,5	6	52	8	2	8	10	69	19	2	15	12	83	26	2
3	6	52	8	2	9	10	69	19	2	16	16	92	32	2
3,5	6	54	10	2	10	10	72	22	2	18	16	92	32	2
4	6	55	11	2	11	12	79	22	2	20	20	104	38	2
5	6	57	13	2	12	12	83	26	2					
6	6	57	13	2	13	12	83	26	2					

OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Rainurage / Slotting / Langlochfräser / Ranurado

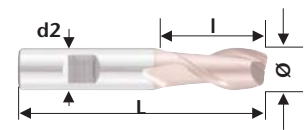
z = 2

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilíndrico

8 03615 1

HSS E8 **DiN 844 B/K** **z = 2** **e8** **HIGH CUT**

Applications
Anwendungen
Aplicaciones



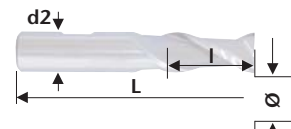
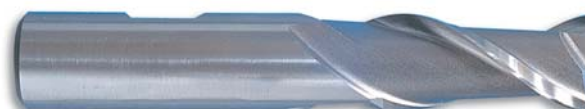
Vc, Fz
p. 133

Ø mm	d2	L	I	Ø mm	d2	L	I	Ø mm	d2	L	I	Ø mm	d2	L	I
2	6	51	7	5	6	57	13	10	10	72	22	16	16	92	32
3	6	52	8	6	6	57	13	12	12	83	26	18	16	92	32
4	6	55	11	8	10	69	19	14	12	83	26	20	20	104	38

8 03582 1

HSS E8 **DiN 844 B/K** **z = 2** **e8**

Applications
Anwendungen
Aplicaciones



Vc, Fz
p. 133

Ø mm	d2	L	I	Ø mm	d2	L	I	Ø mm	d2	L	I	Ø mm	d2	L	I
2	6	51	7	6	6	57	13	12	12	83	26	20	20	104	38
3	6	52	8	7	10	66	16	14	12	83	26				
4	6	55	11	8	10	69	19	16	16	92	32				
5	6	57	13	10	10	72	22	18	16	92	32				

? **OUTILS SPÉCIAUX - SPECIAL TOOLS**
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Rainurage / Slotting / Langlochfräser / Ranurado

z = 2

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilindrico

8 03277 1

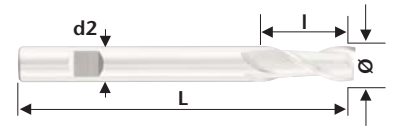
HSS E8 DiN 844 B/L z = 2 e8

Applications
Anwendungen
Aplicaciones

A B **C D E**



HIGH CUT 03616 p. 50



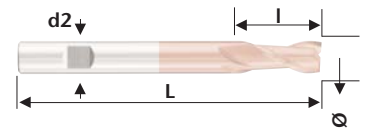
Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
2	6	54	7	5	6	68	13	9	10	88	19	16	16	123	32
2,5	6	56	8	6	6	68	13	10	10	95	22	18	16	123	32
3	6	56	8	7	10	80	16	12	12	110	26	20	20	141	38
4	6	63	11	8	10	88	19	14	12	110	26				

8 03616 1

HSS E8 DiN 844 B/L z = 2 e8 **HIGH CUT**

Applications
Anwendungen
Aplicaciones

C D E **F G H**



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
2	6	54	7	5	6	68	13	10	10	95	22	16	16	123	32
3	6	56	8	6	6	68	13	12	12	110	26	18	16	123	32
4	6	63	11	8	10	88	19	14	12	110	26	20	20	141	38

? OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Rainurage / Slotting / Langlochfräser / Ranurado

z = 2

z = 3

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilindrico

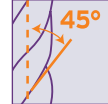
8 03581 1

HSS E8



DiN 844 B/L

z = 2



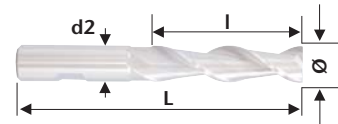
e8



Applications
Anwendungen
Aplicaciones



Vc, Fz
p. 133



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
4	6	63	19	8	10	88	38	14	12	110	53	20	20	141	75
5	6	68	24	10	10	95	45	16	16	123	63				
6	6	68	24	12	12	110	53	18	16	123	63				

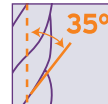
8 03011 1

HSS E8



DiN 327 D

z = 3



e8

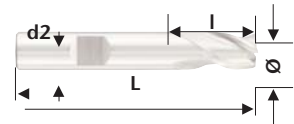


Applications
Anwendungen
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HIGH CUT 03617 p. 52

Vc, Fz
p. 133



Ø mm	d2	L	l	Z	Ø mm	d2	L	l	Z	Ø mm	d2	L	l	Z
2	6	48	4	3	10	10	63	13	3	20	20	88	22	3
3	6	49	5	3	11	12	70	13	3	22	20	88	22	3
4	6	51	7	3	12	12	73	16	3	24	25	102	26	3
5	6	52	8	3	13	12	73	16	3	25	25	102	26	3
6	6	52	8	3	14	12	73	16	3	28	25	102	26	3
7	10	60	10	3	15	12	73	16	3	30	25	102	26	3
8	10	61	11	3	16	16	79	19	3	32	32	112	32	3
9	10	61	11	3	18	16	79	19	3					

? OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Rainurage / Slotting / Langlochfräser / Ranurado

z = 3

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilindrico

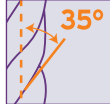
8 03617 1

HSS E8



DiN 327 D

z = 3



e8

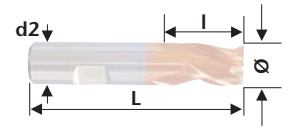
HIGH CUT

Applications
Anwendungen
Aplicaciones

CDE FGH



Vc, Fz
p. 133



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
2	6	48	4	6	6	52	8	14	12	73	16	22	20	88	22
3	6	49	5	8	10	61	11	16	16	79	19	25	25	102	26
4	6	51	7	10	10	63	13	18	16	79	19				
5	6	52	8	12	12	73	16	20	20	88	22				

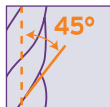
8 03255 1

HSS PM



DiN 327 D

z = 3



e8

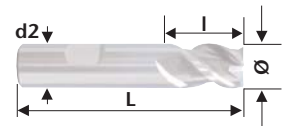


Applications
Anwendungen
Aplicaciones

AB KLM



Vc, Fz
p. 133



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	49	5	8	10	61	11	13	12	73	16	20	20	88	22
4	6	51	7	9	10	61	11	14	12	73	16	22	20	88	22
5	6	52	8	10	10	63	13	15	12	73	16	25	25	102	26
6	6	52	8	11	12	70	13	16	16	79	19	30	25	102	26
7	10	60	10	12	12	73	16	18	16	79	19	32	32	112	32

OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Rainurage / Slotting / Langlochfräser / Ranurado

z = 3

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilindrico

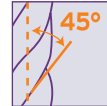
8 **03618** 1

HSS PM



DiN 327 D

z = 3



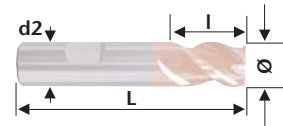
e8

HIGH CUT

Applications
Anwendungen
Aplicaciones



Vc, Fz
p. 133



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	49	5	8	10	61	11	16	16	79	19	25	25	102	26
4	6	51	7	10	10	63	13	18	16	79	19				
5	6	52	8	12	12	73	16	20	20	88	22				
6	6	52	8	14	12	73	16	22	20	88	22				

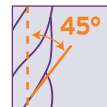
8 **03476** 1

HSS E8



DiN 844 B/K

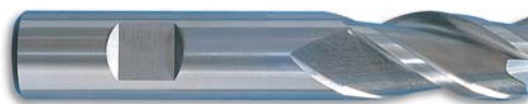
z = 3



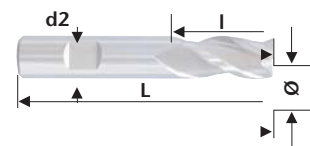
e8



Applications
Anwendungen
Aplicaciones



HIGH CUT 03650 p. 54
INO CUT 03679 p. 54
Vc, Fz p. 133



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	52	8	6,5	10	66	16	10	10	72	22	22	20	104	38
3,5	6	54	10	7	10	66	16	11	12	79	22	24	25	121	45
4	6	55	11	7,5	10	66	16	12	12	83	26	25	25	121	45
4,5	6	55	11	8	10	69	19	14	12	83	26	32	32	133	53
5	6	57	13	8,5	10	69	19	16	16	92	32				
5,5	6	57	13	9	10	69	19	18	16	92	32				
6	6	57	13	9,5	10	69	19	20	20	104	38				

OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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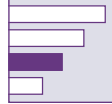
Rainurage / Slotting / Langlochfräser / Ranurado

z = 3

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilindrico

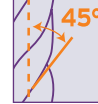
8 **03650** 1

HSS
E8



DiN
844
B/K

z = 3



e8

HIGH
CUT

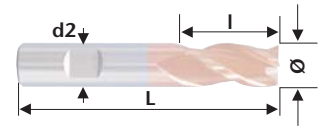
Applications
Anwendungen
Aplicaciones



Vc, Fz
p. 133



p. 127



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	52	8	8	10	69	19	16	16	92	32	25	25	121	45
4	6	55	11	10	10	72	22	18	16	92	32				
5	6	57	13	12	12	83	26	20	20	104	38				
6	6	57	13	14	12	83	26	22	20	104	38				

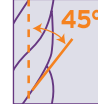
8 **03679** 1

HSS
E8



DiN
844
B/K

z = 3



e8

INO
CUT

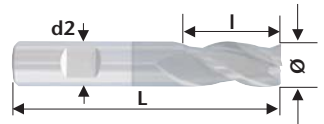
Applications
Anwendungen
Aplicaciones



Vc, Fz
p. 133



p. 127



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	52	8	8	10	69	19	16	16	92	32	25	25	121	45
4	6	55	11	10	10	72	22	18	16	92	32				
5	6	57	13	12	12	83	26	20	20	104	38				
6	6	57	13	14	12	83	26	22	20	104	38				

? OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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Rainurage / Slotting / Langlochfräser / Ranurado

z = 3

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilíndrico

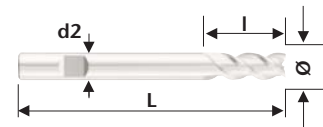
8 **03281** 1

HSS E8 DiN 844 B/L z = 3 e8

Applications
Anwendungen
Aplicaciones



03619 p. 55 p. 133



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
4	6	63	11	7	10	80	16	10	10	95	22	16	16	123	32
5	6	68	13	8	10	88	19	12	12	110	26	18	16	123	32
6	6	68	13	9	10	88	19	14	12	110	26	20	20	141	38

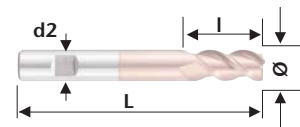
8 **03619** 1

HSS E8 DiN 844 B/L z = 3 e8

Applications
Anwendungen
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p. 133



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
4	6	63	11	8	10	88	19	14	12	110	26	20	20	141	38
5	6	68	13	10	10	95	22	16	16	123	32				
6	6	68	13	12	12	110	26								

? OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
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Rainurage / Slotting / Langlochfräser / Ranurado

z = 3

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilindrico

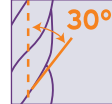
8 **03272** 1

HSS E8



Perfor Norm

z = 3



Applications
Anwendungen
Aplicaciones

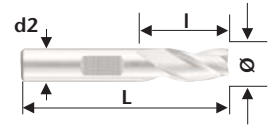
A B CDE IJ

A jeter
Throw away
Einweg
Utilizacion unica



Vf, Vc, Fz
p. 133

Vendue par 5
Sold per 5 pieces
Verkauft per 5 Stück
Vendidas por 5 piezas



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	6	24,5	2	2,5	6	26	4	3,5	6	30	5,5	5	6	36	7,5
1,5	6	24,5	2,5	3	6	28	4,5	4	6	32,5	6,5	6	6	36	9,5
2	6	25,5	3												

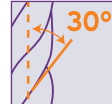
8 **03273** 1

HSS E8



Perfor Norm

z = 3



Applications
Anwendungen
Aplicaciones

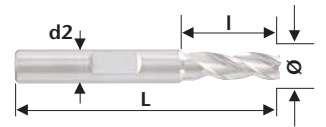
A B CDE IJ

A jeter
Throw away
Einweg
Utilizacion unica



Vf, Vc, Fz
p. 133

Vendue par 5
Sold per 5 pieces
Verkauft per 5 Stück
Vendidas por 5 piezas



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1,5	6	28	4	3	6	34	7,5	4,5	6	42	11	6	6	44,5	16
2	6	29	4,5	3,5	6	36,5	8,5	5	6	44,5	12,5				
2,5	6	32	6,5	4	6	39	9,5	5,5	6	44,5	14,5				

OUTILS SPÉCIAUX - SPECIAL TOOLS
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Rainurage / Slotting / Langlochfräser / Ranurado

z = 3

Queue Cylindrique / Parallel shank / Zylinderschaft / Mango cilíndrico

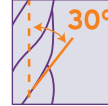
8 03643 1

HSS E8



Perfor Norm

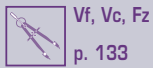
z = 3



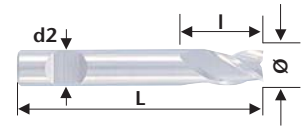
e8



Applications
Anwendungen
Aplicaciones



MINI



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1,5	6	34	3	2,8	6	36	5	4	6	38	7	5,5	6	39	8
1,8	6	34	3	3	6	36	5	4,5	6	38	7	5,75	6	39	8
2	6	35	4	3,5	6	37	6	4,8	6	39	8	6	6	39	8
2,5	6	36	5	3,8	6	38	7	5	6	39	8				

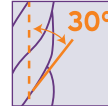
8 03644 1

HSS E8



Perfor Norm

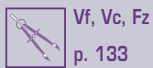
z = 3



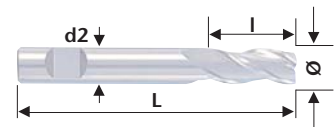
e8



Applications
Anwendungen
Aplicaciones



MINI



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
2	6	38	7	3,5	6	41	10	4,8	6	44	13	6	6	44	13
2,5	6	39	8	3,8	6	42	11	5	6	44	13				
2,8	6	39	8	4	6	42	11	5,5	6	44	13				
3	6	39	8	4,5	6	42	11	5,75	6	44	13				

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