

Carbure Monobloc

Solid Carbide

Hartmetall

Metal Duro



z = 1

Standard / Regular / Standard / Estandar

Rainurage / Slotting / Langlochfräser / Ranurado

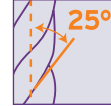
8 23297 1

HM Carb



Perfor norm

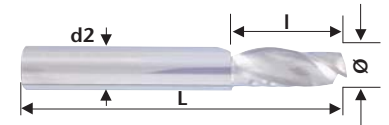
z = 1



Applications
Anwendungen
Aplicaciones



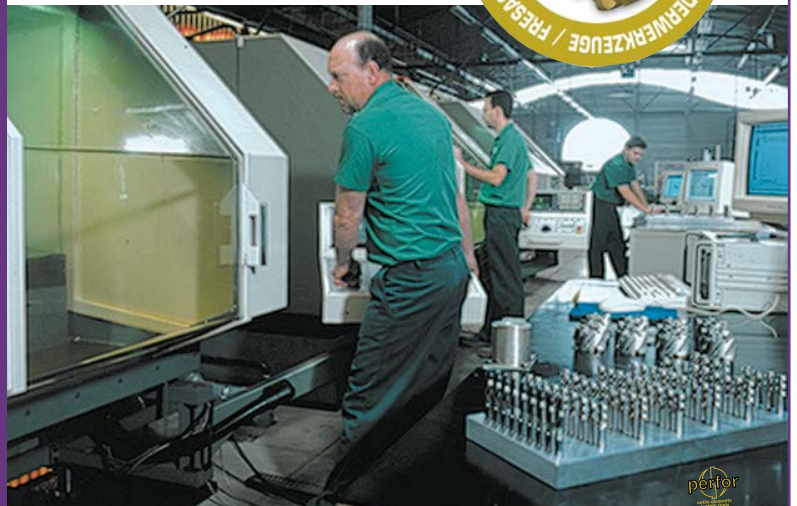
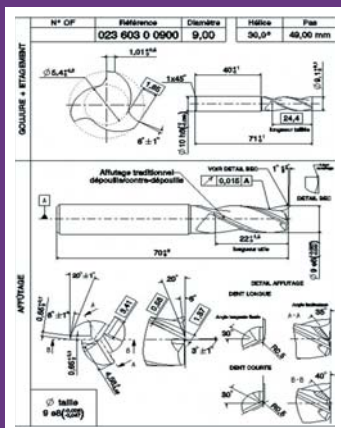
Vf, Vc, fz
p. 144



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
2	2	38	10	3	3	38	12	5	5	50	16	8	8	63	22
2,5	3	38	12	4	4	50	15	6	6	57	18	10	10	72	30

OUTILS SPÉCIAUX

Special tools
Sonderwerkzeuge
Fresas especiales



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Carbure Monobloc

Solid Carbide

Hartmetall

Metal Duro



z = 2

Standard / Regular / Standard / Estandar

Rainurage / Slotting / Langlochfräser / Ranurado

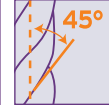
8 23613 1

HM Carb



Perfor norm

z = 2



e8



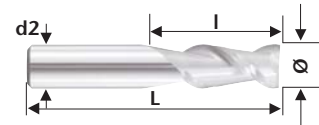
Applications
Anwendungen
Aplicaciones



AL CUT 23614 p. 23



new
nouveau



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	5	5	51	16	10	10	70	22	20	20	102	38
2	3	39	7	6	6	64	19	12	12	76	25	22	22	102	38
2,5	3	39	7	7	8	64	19	14	14	89	30	25	25	102	38
3	3	39	9	8	8	64	21	16	16	89	32				

8 23614 1

HM Carb



Perfor norm

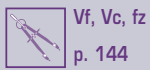
z = 2



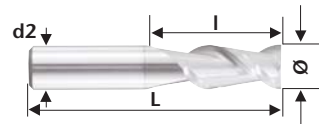
e8

AL CUT

Applications
Anwendungen
Aplicaciones



new
nouveau



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	5	5	51	16	10	10	70	22	20	20	102	38
2	3	39	7	6	6	64	19	12	12	76	25	22	22	102	38
2,5	3	39	7	7	8	64	19	14	14	89	30	25	25	102	38
3	3	39	9	8	8	64	21	16	16	89	32				

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

Hartmetall

Metal Duro



z = 2

Standard / Regular / Standard / Estandar

Rainurage / Slotting / Langlochfräser / Ranurado

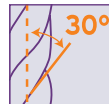
8 **23602** 1

HM Carb



Perfor norm

z = 2



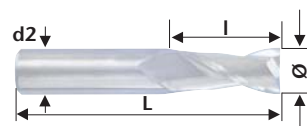
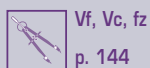
e8



Applications
Anwendungen
Aplicaciones



HARD CUT 23615 p. 24



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	4,5	5	51	14	10	10	70	22	20	20	102	38
2	3	39	7	5	5	51	16	11	11	70	25	22	22	102	38
2,5	3	39	7	6	6	64	19	12	12	76	25	25	25	102	38
3	3	39	9	7	8	64	19	14	14	89	30				
3,5	4	51	12	8	8	64	21	16	16	89	32				

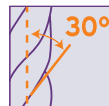
8 **23615** 1

HM Carb



Perfor norm

z = 2



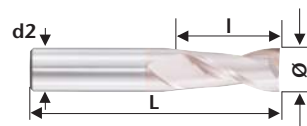
e8

HARD CUT

Applications
Anwendungen
Aplicaciones



new
nouveau



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	4,5	5	51	14	10	10	70	22	20	20	102	38
2	3	39	7	5	5	51	16	11	11	70	25	22	22	102	38
2,5	3	39	7	6	6	64	19	12	12	76	25	25	25	102	38
3	3	39	9	7	8	64	19	14	14	89	30				
3,5	4	51	12	8	8	64	21	16	16	89	32				

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



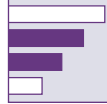
z = 2

Standard / Regular / Standard / Estandar

Rainurage / Slotting / Langlochfräser / Ranurado

8 23672 1

HM Carb



DiN 6527 K/L

z = 2



h10

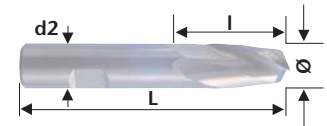


Applications
Anwendungen
Aplicaciones



Vf, Vc, fz
p. 144

Méplat
Weldon Flat



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	50	4	6	6	54	7	12	12	73	12	18	18	84	18
3	6	57	7	6	6	57	10	12	12	83	22	18	18	92	26
4	6	54	5	8	8	58	9	14	14	75	14	20	20	92	20
4	6	57	8	8	8	63	16	14	14	83	22	20	20	104	32
5	6	54	6	10	10	66	11	16	16	82	16				
5	6	57	10	10	10	72	19	16	16	92	26				

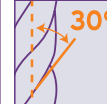
8 23609 1

HM Carb



Perfor norm

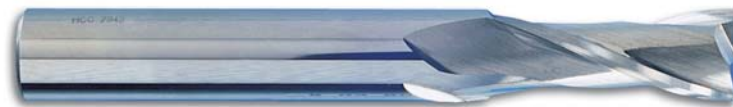
z = 2



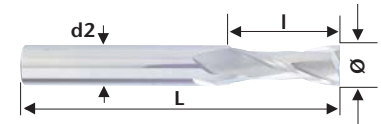
e8



Applications
Anwendungen
Aplicaciones



Vf, Vc, fz
p. 144



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	60	9	8	8	90	20	14	16	120	35	20	20	130	45
4	6	70	12	10	10	100	25	16	16	120	40				
6	6	80	15	12	12	110	30	18	18	130	40				

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

Solid Carbide

Hartmetall

Metal Duro



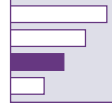
z = 3

Standard / Regular / Standard / Estandar

Rainurage / Slotting / Langlochfräser / Ranurado

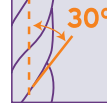
8 **23603** 1

HM Carb



Perfor norm

z = 3



e8



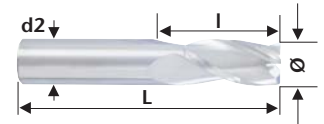
Applications
Anwendungen
Aplicaciones



HARD CUT 23616 p. 26



Vf, Vc, fz
p. 144



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	4,5	5	51	14	10	10	70	22	20	20	102	38
2	3	39	7	5	5	51	16	11	11	70	25	22	22	102	38
2,5	3	39	7	6	6	64	19	12	12	76	25	25	25	102	38
3	3	39	9	7	8	64	19	14	14	89	30				
3,5	4	51	12	8	8	64	21	16	16	89	32				

8 **23616** 1

HM Carb



Perfor norm

z = 3



e8

HARD CUT

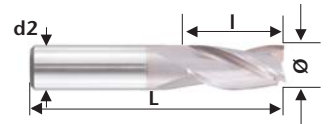
Applications
Anwendungen
Aplicaciones



new
nouveau



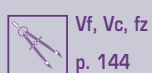
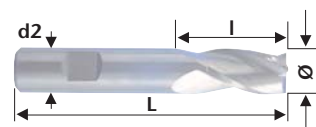
Vf, Vc, fz
p. 144



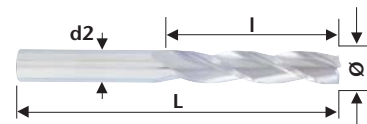
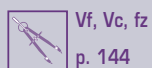
Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	4,5	5	51	14	10	10	70	22	20	20	102	38
2	3	39	7	5	5	51	16	11	11	70	25	22	22	102	38
2,5	3	39	7	6	6	64	19	12	12	76	25	25	25	102	38
3	3	39	9	7	8	64	19	14	14	89	30				
3,5	4	51	12	8	8	64	21	16	16	89	32				

? OUTILS SPÉCIAUX - SPECIAL TOOLS
Autre dimension / Revêtement / Application ?
Other dimension / Coating / Application ?
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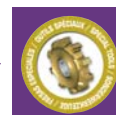
Carbure Monobloc**Solid Carbide****Hartmetall****Metal Duro****z = 3****Standard / Regular / Standard / Estandar****Rainurage / Slotting / Langlochfräser / Ranurado****8 23673 1****HM Carb****DiN 6527 K/L****z = 3****h10**
**Applications
Anwendungen
Aplicaciones**

**Méplat
Weldon Flat**


Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	50	4	6	6	54	7	12	12	73	12	18	18	84	18
3	6	57	7	6	6	57	10	12	12	83	22	18	18	92	26
4	6	54	5	8	8	58	9	14	14	75	14	20	20	92	20
4	6	57	8	8	8	63	16	14	14	83	22	20	20	104	32
5	6	54	6	10	10	66	11	16	16	82	16				
5	6	57	10	10	10	72	19	16	16	92	26				

8 23610 1**HM Carb****Perfor norm****z = 3****h9**
**Applications
Anwendungen
Aplicaciones**


Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	3	75	25	8	8	75	25	14	14	150	75	25	25	150	75
4	4	75	25	10	10	100	38	16	16	150	75				
5	5	75	25	12	12	100	50	18	18	150	75				
6	6	75	25	12	12	150	75	20	20	150	75				

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

Solid Carbide

Hartmetall

Metal Duro



z = 4

Standard / Regular / Standard / Estandar

Finition, fraisage combiné / Multi-purpose milling & finishing / Umfangsbearbeitung / Acabadofresado

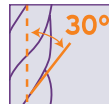
8 23604 1

HM Carb



Perfor norm

z = 4



h9



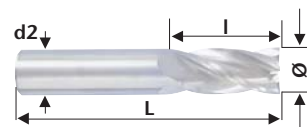
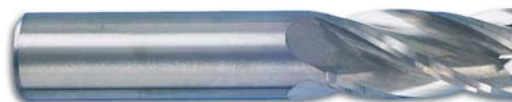
Applications
Anwendungen
Aplicaciones



HARD CUT 23617 p. 28



Vf, Vc, fz
p. 144



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	4,5	5	51	14	10	10	70	22	20	20	102	38
2	3	39	7	5	5	51	16	11	11	70	25	22	22	102	38
2,5	3	39	7	6	6	64	19	12	12	76	25	25	25	102	38
3	3	39	9	7	8	64	19	14	14	89	30				
3,5	4	51	12	8	8	64	21	16	16	89	32				

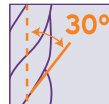
8 23617 1

HM Carb



Perfor norm

z = 4



h9

HARD CUT

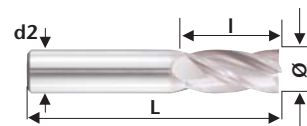
Applications
Anwendungen
Aplicaciones



**new
nouveau**



Vf, Vc, fz
p. 144



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	4,5	5	51	14	10	10	70	22	20	20	102	38
2	3	39	7	5	5	51	16	11	11	70	25	22	22	102	38
2,5	3	39	7	6	6	64	19	12	12	76	25	25	25	102	38
3	3	39	9	7	8	64	19	14	14	89	30				
3,5	4	51	12	8	8	64	21	16	16	89	32				

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Other dimension / Coating / Application ?
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Carbure Monobloc

Solid Carbide

Hartmetall

Metal Duro



z = 4

Standard / Regular / Standard / Estandar

Finition, fraisage combiné / Multi-purpose milling & finishing / Umfangsbearbeitung / Acabadofresado

8 23674 1

HM Carb



DiN 6527 K/L

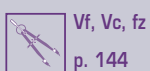
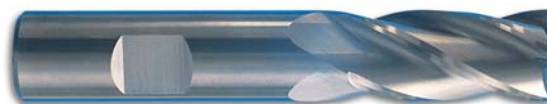
z = 4



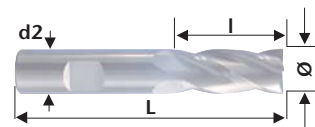
h10



Applications
Anwendungen
Aplicaciones



Méplat
Weldon Flat



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	50	5	6	6	54	10	12	12	73	16	18	18	84	24
3	6	57	8	6	6	57	13	12	12	83	26	18	18	92	32
4	6	54	8	8	8	58	12	14	14	75	18	20	20	92	26
4	6	57	11	8	8	63	19	14	14	83	26	20	20	104	38
5	6	54	9	10	10	66	14	16	16	82	22				
5	6	57	13	10	10	72	22	16	16	92	32				

Ebauche / Roughing / Schruppfräser / Desbaste

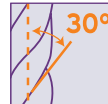
8 23605 1

HM Carb



Perfor norm

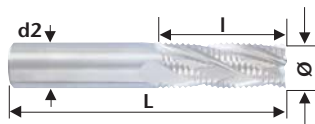
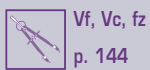
z = 4



TYP HR



Applications
Anwendungen
Aplicaciones



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	3	39	14	6	6	64	19	12	12	76	25	18	18	102	35
4	4	51	16	8	8	64	21	14	14	89	30	20	20	102	38
5	5	51	16	10	10	70	25	16	16	89	32	25	25	102	38

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

Solid Carbide

Hartmetall

Metal Duro



z = 2

Standard / Regular / Standard / Estandar

Bout hémisphérique / Ball nosed / Runder Stirn / Punta esférica

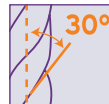
8 **23606** 1

HM Carb



Perfor norm

z = 2



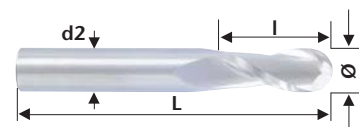
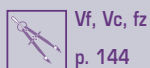
e8



Applications
Anwendungen
Aplicaciones



HARD CUT 23618 p. 30



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	4,5	5	51	14	10	10	70	22	20	20	102	38
2	3	39	7	5	5	51	16	11	11	70	25	22	22	102	38
2,5	3	39	7	6	6	64	19	12	12	76	25	25	25	102	38
3	3	39	9	7	8	64	19	14	14	89	30				
3,5	4	51	12	8	8	64	21	16	16	89	32				

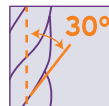
8 **23618** 1

HM Carb



Perfor norm

z = 2



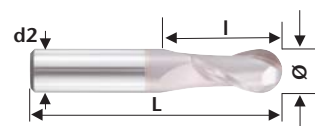
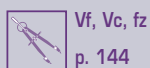
e8

HARD CUT

Applications
Anwendungen
Aplicaciones



new
nouveau



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	4,5	5	51	14	10	10	70	22	20	20	102	38
2	3	39	7	5	5	51	16	11	11	70	25	22	22	102	38
2,5	3	39	7	6	6	64	19	12	12	76	25	25	25	102	38
3	3	39	9	7	8	64	19	14	14	89	30				
3,5	4	51	12	8	8	64	21	16	16	89	32				

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

Solid Carbide

Hartmetall

Metal Duro



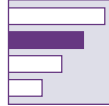
z = 2

Standard / Regular / Standard / Estandar

Bout hémisphérique / Ball nosed / Runder Stirn / Punta esférica

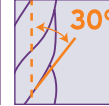
8 **23676** 1

HM
Carb



DiN
6527
L

z = 2



h10

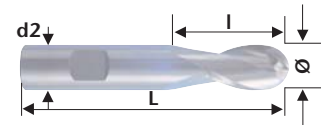


Applications
Anwendungen
Aplicaciones



Vf, Vc, fz
p. 144

Méplat
Weldon Flat



Ø mm	d2	L	I	Ø mm	d2	L	I	Ø mm	d2	L	I	Ø mm	d2	L	I
3	6	57	7	6	6	57	10	12	12	83	22	18	18	92	26
4	6	57	8	8	8	63	16	14	14	83	22	20	20	104	32
5	6	57	10	10	10	72	19	16	16	92	26				

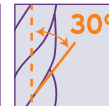
8 **23608** 1

HM
Carb



Perfor
norm

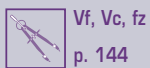
z = 2



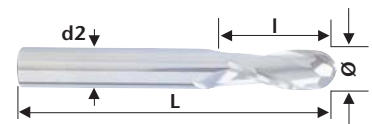
e8



Applications
Anwendungen
Aplicaciones



Vf, Vc, fz
p. 144



Ø mm	d2	L	I	Ø mm	d2	L	I	Ø mm	d2	L	I	Ø mm	d2	L	I
3	6	60	9	8	8	90	20	14	16	120	35	20	20	130	45
4	6	70	12	10	10	100	25	16	16	120	40				
6	6	80	15	12	12	110	30	18	20	130	40				

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

Solid Carbide

Hartmetall

Metal Duro



z = 3

Standard / Regular / Standard / Estandar

Bout hémisphérique / Ball nosed / Runder Stirn / Punta esférica

8 23675 1

HM
Carb



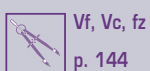
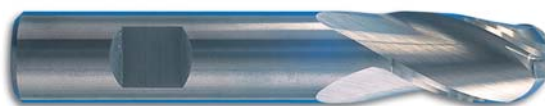
DiN
6527
L

z = 3



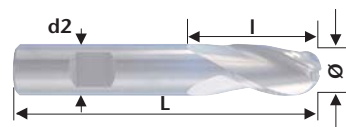
h10

Applications
Anwendungen
Aplicaciones



Vf, Vc, fz
p. 144

Méplat
Weldon Flat



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	57	7	6	6	57	10	12	12	83	22	18	18	92	26
4	6	57	8	8	8	63	16	14	14	83	22	20	20	104	32
5	6	57	10	10	10	72	19	16	16	92	26				

OUTILS SPÉCIAUX

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



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Special tools
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AL CUT HARD CUT HIGH CUT INO CUT SLIDE CUT TiAlN TiN ULTRA CUT CrC CrN TiCN Xtreme ...

Carbure Monobloc

Solid Carbide

Hartmetall

Metal Duro



z = 4

Standard / Regular / Standard / Estandar

Bout hémisphérique / Ball nosed / Runder Stirn / Punta esférica

8 23607 1

HM Carb



Perfor norm

z = 4



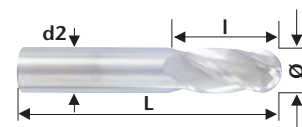
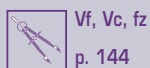
h9



Applications
Anwendungen
Aplicaciones



HARD CUT 23619 p. 34



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	4,5	5	51	16	10	10	70	22	20	20	102	38
2	3	39	7	5	5	51	16	11	11	70	25	22	22	102	38
2,5	3	39	7	6	6	64	19	12	12	76	25	25	25	102	38
3	3	39	9	7	8	64	19	14	14	89	30				
3,5	4	51	12	8	8	64	21	16	16	89	32				

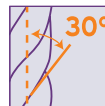
8 23619 1

HM Carb



Perfor norm

z = 4



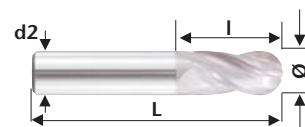
h9



Applications
Anwendungen
Aplicaciones



**new
nouveau**



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
1	3	39	3	4	4	51	14	9	10	70	22	18	18	102	35
1,5	3	39	5	4,5	5	51	16	10	10	70	22	20	20	102	38
2	3	39	7	5	5	51	16	11	11	70	25	22	22	102	38
2,5	3	39	7	6	6	64	19	12	12	76	25	25	25	102	38
3	3	39	9	7	8	64	19	14	14	89	30				
3,5	4	51	12	8	8	64	21	16	16	89	32				

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Carbure
Monobloc

Solid Carbide

Hartmetall

Metal Duro



z = 4

Standard / Regular / Standard / Estandar

Bout hémisphérique / Ball nosed / Runder Stirn / Punta esférica

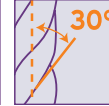
8 23677 1

HM
Carb



DiN
6527
L

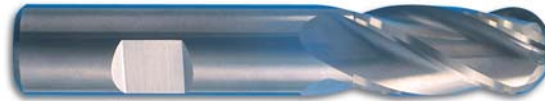
z = 4



h10

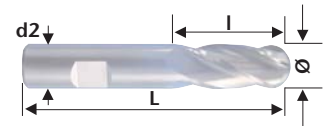


Applications
Anwendungen
Aplicaciones



Vf, Vc, fz
p. 144

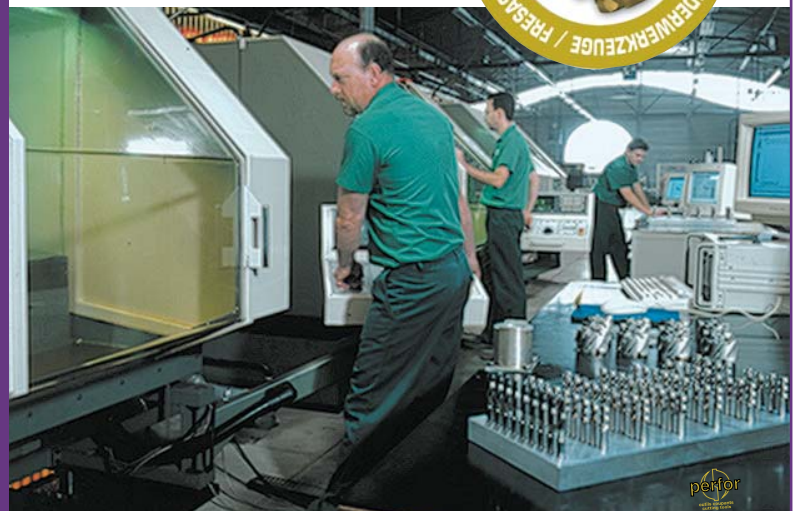
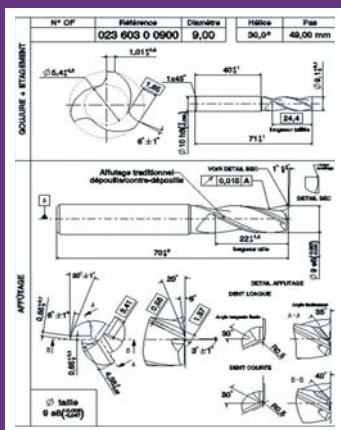
Méplat
Weldon Flat



Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l	Ø mm	d2	L	l
3	6	57	8	6	6	57	13	12	12	83	26	18	18	92	32
4	6	57	11	8	8	63	19	14	14	83	26	20	20	104	38
5	6	57	13	10	10	72	22	16	16	92	32				

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