

03
VERSIÓN



CATÁLOGO DE FRESAS reducido

ARRALBE
passion for tooling

PRODUCT CATALOGUE
CATALOGUE DES PRODUITS
PRODUKTKATALOG

The image features an abstract design. In the upper left, there are two sets of curved, parallel lines, one in black and one in red, that sweep across the frame. A large, solid red shape, resembling a trapezoid or a thick wedge, is positioned in the lower right. The text 'passion for tooling' is written in white, lowercase letters, with a short white vertical bar preceding the word 'passion'.

| passion
for tooling



HOLA
HELLO
BONJOUR
HALLO

Somos una empresa joven pero con una trayectoria importante en el diseño, fabricación, control y distribución de herramienta de corte de metal duro.

Arralbe Tooling is a young company but with a long experience in design, manufacture, measuring and marketing of Solid Carbide Cutting Tools.

Arralbe Tooling est une jeune société, mais avec une grande expérience dans la conception, la fabrication, le contrôle et la distribution d'outils coupants en carbure monobloc.

Arralbe Tooling ist eine junge Firma. Wir haben jedoch eine große Erfahrung in der Entwicklung, Herstellung, Messung und Vertrieb von VHM Zerspanungswerkzeuge.



DISEÑO
CONTROL
FABRICACIÓN
DISTRIBUCIÓN

1

FRESAS
para aluminio

END MILL for aluminium | FRAISE pour aluminium | FRÄFER FÜR aluminium



Z1 FRESA FRENTE RECTO ALUMINIO Serie NormalPÁG 8

Z1 SQUARE END MILL | FRAISE CYLINDRIQUE EN BOUT | LANGLOCHFRÄFER Aluminium Normal Series



Z2 HELICE 45° Serie NormalPÁG 9

Z2 HELICE 45° SQUARE END MILL | FRAISE CYLINDRIQUE EN BOUT | LANGLOCHFRÄFER Aluminium Normal Series



Z3 HELICE 45° Serie NormalPÁG 10

Z3 HELICE 45° SQUARE END MILL | FRAISE CYLINDRIQUE EN BOUT | LANGLOCHFRÄFER Aluminium Normal Series

2

FRESAS
frente recto

SQUARE END MILL | FRAISE CYLINDRIQUE EN BOUT | LANGLOCHFRÄFER



Z2 FRESA FRENTE RECTO. SERIE NORMALPÁG 12

Z2 SQUARE END MILL | FRAISE CYLINDRIQUE EN BOUT | LANGLOCHFRÄFER Normal Series



Z3 FRESA FRENTE RECTO. SERIE NORMALPÁG 14

Z3 SQUARE END MILL / FRAISE CYLINDRIQUE EN BOUT | LANGLOCHFRÄFER Normal Series



Z4 FRESA FRENTE RECTO. SERIE NORMALPÁG 16

Z4 SQUARE END MILL / FRAISE CYLINDRIQUE EN BOUT | LANGLOCHFRÄFER Normal Series

3

FRESAS
esféricas

BALL NOSE END MIL | FRAISE CYLINDRIQUE HÉMISPHERIQUE | KUGELFRÄSER



Z2 FRESAS ESFERICAS Serie NormalPÁG 20

Z2 BALL NOSE END MIL | FRAISE CYLINDRIQUE HÉMISPHERIQUE | KUGELFRÄSER Normal Series



Z4 FRESAS ESFERICAS Serie NormalPÁG 22

Z4 BALL NOSE END MIL | FRAISE CYLINDRIQUE HÉMISPHERIQUE | KUGELFRÄSER Normal Series

4

FRESAS
de alto rendimiento

HIGH PERFORMANCE END MILLS | FRAISE DE HAUTE PERFORMANCE | HOCHLEISTUNGSBEARBEITUNG



Z3 HYPERLINK: FRESA HELICE VARIABLE 35°/38° Económica.....PÁG 24

Z3 HYPERLINK. UNEQUAL HELIX ANGLES 35°-38° | HÉLICE DIFFÉRENTE 35°-38° | UNGLEICHER DRALLWINKEL 35°-38° Eco.



Z4 HYPERLINK: FRESA HELICE VARIABLE 35°/38° Económica.....PÁG 25

Z4 HYPERLINK. UNEQUAL HELIX ANGLES 35°-38° | HÉLICE DIFFÉRENTE 35°-38° | UNGLEICHER DRALLWINKEL 35°-38° Eco.



01

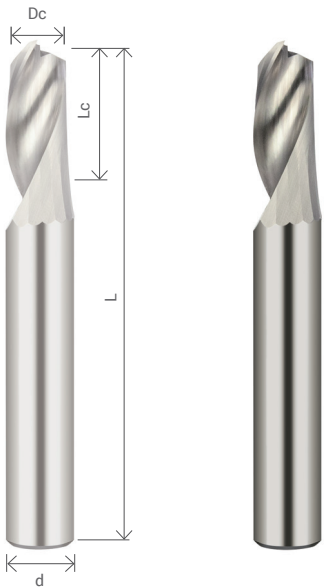
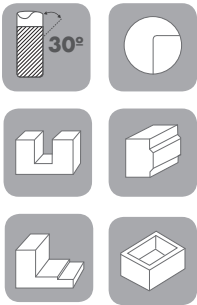
FRESAS para aluminio

END MILL FOR ALUMINIUM
FRAISE POUR ALUMINIUM
FRÄSER FÜR ALUMINIUM

Z1 FRESA FRENTE RECTO ALUMINIO Serie Normal SIN RECUBRIMENTO

- EN** Z1 SQUARE END MILL ALUMINIUM | UNCOATED | Normal Series
FR Z1 FRAISE CYLINDRIQUE EN BOUT ALUMINIUM | NO REVÊTEMENT | Normale
DE Z1 LANGLOCHFRÄSER ALUMINIUM | OHNE BESCHICHTUNG | Normale

- ES** Aluminio, cobre, latón, bronce y termoplásticos.
- EN** Aluminium, copper, brass, bronze and thermoplastics.
- FR** Aluminium, cuivre, laiton, bronze et thermoplastiques.
- DE** Aluminium, kupfer, messing, bronze und kunststoffe.



SERIE NORMAL

Ref.	Dimensiones (mm)			
1 Flute (Z1)	Dc	d	Lc	L
A-SEM1030	3	3	8	38
A-SEM1040	4	4	11	50
A-SEM1050	5	5	13	50
A-SEM1060	6	6	16	50
A-SEM1080	8	8	19	60
A-SEM1100	10	10	22	75
A-SEM1120	12	12	26	75

Z2 HELICE 45° Serie Normal

FRESA FRENTE RECTO ALUMINIO

EN Z2 HELICE 45° SQUARE END MILL ALUMINIUM | UNCOATED | Normal Series,

FR Z2 HELICE 45° FRAISE CYLINDRIQUE EN BOUT ALUMINIUM | NO REVÊTEMENT | Normale

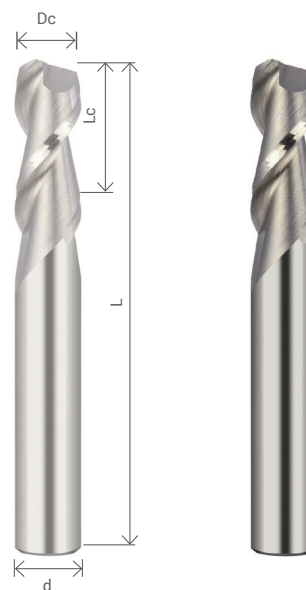
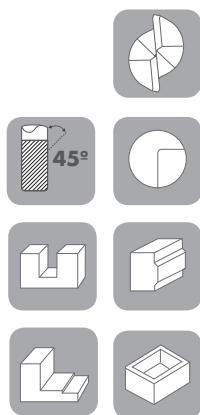
DE Z2 HELICE 45° LANGLOCHFRÄSER ALUMINIUM | OHNE BESCHICHTUNG | Normale

ES Aluminio, cobre, latón, bronce y termoplásticos.

EN Aluminium, copper, brass, bronze and thermoplastics.

FR Aluminium, cuivre, laiton, bronze et thermoplastiques.

DE Aluminium, kupfer, messing, bronce und kunststoffe.



SERIE NORMAL

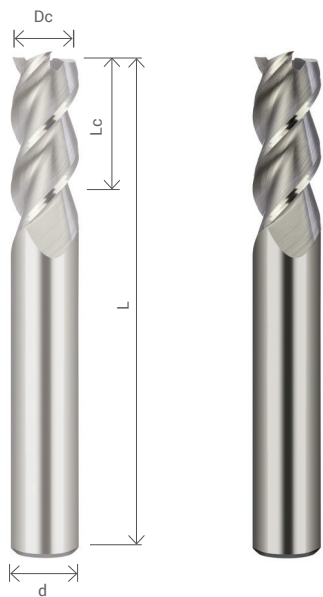
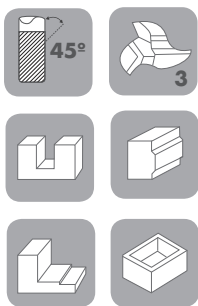
Ref.	Dimensiones (mm)			
2 Flutes (Z2)	Dc	d	Lc	L
A-SEM2030	3	6	8	50
A-SEM2040	4	6	11	50
A-SEM2050	5	6	13	50
A-SEM2060	6	6	16	50
A-SEM2080	8	8	19	60
A-SEM2100	10	10	25	72
A-SEM2120	12	12	30	75
A-SEM2140	14	14	35	84
A-SEM2160	16	16	40	92
A-SEM2200	20	20	45	100

Z3 HELICE 45° Serie Normal

FRESA FRENTE RECTO ALUMINIO / SIN RECUBRIMIENTO

- EN** Z3 HELICE 45° SQUARE END MILL ALUMINIUM | UNCOATED | Normal Series
FR Z3 HELICE 45° FRAISE CYLINDRIQUE EN BOUT ALUMINIUM | NO REVÊTEMENT | Normale
DE Z3 HELICE 45° LANGLOCHFRÄSER ALUMINIUM | OHNE BESCHICHTUNG | Normale

- ES** Aluminio, cobre, latón, bronce y termoplásticos.
- EN** Aluminium, copper, brass, bronze and thermoplastics.
- FR** Aluminium, cuivre, laiton, bronze et thermoplastiques.
- DE** Aluminium, kupfer, messing, bronze und kunststoffe.



SERIE NORMAL

Ref.	Dimensiones (mm)			
3 Flutes (Z3)	Dc	d	Lc	L
A-SEM3030	3	6	8	50
A-SEM3040	4	6	11	50
A-SEM3050	5	6	13	50
A-SEM3060	6	6	16	50
A-SEM3080	8	8	19	60
A-SEM3100	10	10	25	72
A-SEM3120	12	12	30	75
A-SEM3140	14	14	35	84
A-SEM3160	16	16	40	92
A-SEM3200	20	20	45	100



02

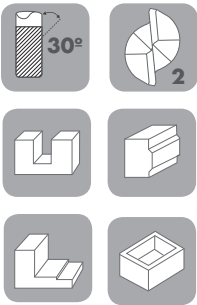
FRESAS de frente recto

SQUARE END MILL
FRAISE CYLINDRIQUE EN BOUT
LANGLOCHFRÄSER

Z2 FRESA FRENTE RECTO Serie Normal

- EN Z2 SQUARE END MILL | Normal Series
FR Z2 FRAISE CYLINDRIQUE EN BOUT | Normale
DE Z2 LANGLOCHFRÄSER | Normale

- ES Acero, Acero Inoxidable, Fundición Gris, Cobre, Titanio y Aceros hasta 56 HRC.
- EN Steel, Stainless Steel, Cast Iron, Cooper, Titanium and Hardened Steels up to 56 HRC.
- FR Acier, Acier Inoxydable, Fonte Grise, Cuivre, Titane et Acier Jusqu'à 56 HRC.
- DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter Stahl 56 HRC.



ALTIN



SERIE NORMAL

Ref.	Dimensiones (mm)			
2 Flutes (Z2)	Dc	d	Lc	L
H-SEM2010-d3	1	3	3	38
H-SEM2010-d4	1	4	3	50
H-SEM2015-d3	1,5	3	4	38
H-SEM2015-d4	1,5	4	4	50
H-SEM2020-d3	2	3	6	38
H-SEM2020-d4	2	4	6	50
H-SEM2025-d3	2,5	3	8	38
H-SEM2025-d4	2,5	4	8	50
H-SEM2030-d3	3	3	8	38
H-SEM2030-d4	3	4	8	50
H-SEM2030-d6	3	6	8	50
H-SEM2035-d4	3,5	4	11	50
H-SEM2040-d4	4	4	11	50
H-SEM2040-d6	4	6	11	50
H-SEM2045-d6	4,5	6	11	50

Z2 FRESA FRENTE RECTO Serie Normal

EN Z2 SQUARE END MILL | Normal Series

FR Z2 FRAISE CYLINDRIQUE EN BOUT | Normale

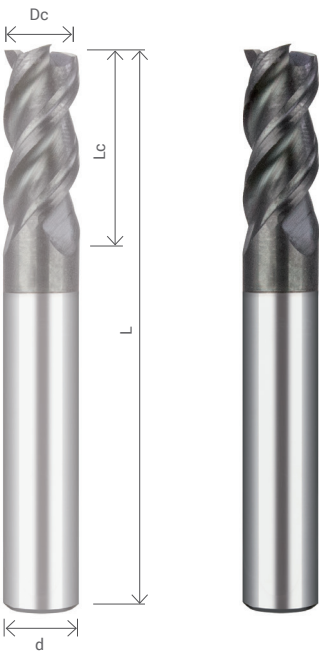
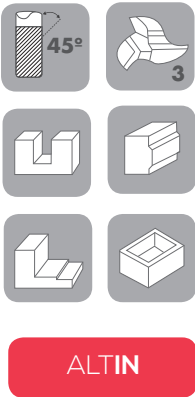
DE Z2 LANGLOCHFRÄSER | Normale

Ref.	Dimensiones (mm)			
	Dc	d	Lc	L
2 Flutes (Z2)				
H-SEM2050	5	5	13	50
H-SEM2050-d6	5	6	13	50
H-SEM2050-d6	5	6	13	50
H-SEM2055-d6	5,5	6	16	50
H-SEM2060	6	6	16	50
H-SEM2063	6,35	8	19	60
H-SEM2065	6,5	8	19	60
H-SEM2070	7	8	19	60
H-SEM2075	7,5	8	19	60
H-SEM2080	8	8	19	60
H-SEM2085	8,5	10	22	72
H-SEM2090	9	10	22	72
H-SEM2095	9,5	10	22	72
H-SEM2100	10	10	22	72
H-SEM2105	10,5	12	26	75
H-SEM2110	11	12	26	75
H-SEM2115	11,5	12	26	75
H-SEM2120	12	12	26	75
H-SEM2125	12,5	14	30	84
H-SEM2130	13	14	30	84
H-SEM2140	14	14	30	84
H-SEM2150	15	16	32	92
H-SEM2160	16	16	32	92
H-SEM2170	17	18	38	100
H-SEM2180	18	18	38	100
H-SEM2185	18,5	20	38	100
H-SEM2190	19	20	38	100
H-SEM2200	20	20	38	100
H-SEM2220	22	22	38	100
H-SEM2250	25	25	45	100

Z3 FRESA FRENTE RECTO Serie Normal

- EN Z3 SQUARE END MILL | Normal Series
FR Z3 FRAISE CYLINDRIQUE EN BOUT | Normale
DE Z3 LANGLOCHFRÄFER | Normale

- ES Acero, Acero Inoxidable, Fundición Gris, Cobre, Titanio y Aceros hasta 56 HRC.
EN Steel, Stainless Steel, Cast Iron, Cooper, Titanium and Hardened Steels up to 56 HRC.
FR Acier, Acier Inoxydable, Fonte Grise, Cuivre, Titane et Acier Jusqu'à 56 HRC.
DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter Stahl 56 HRC.



SERIE NORMAL

Ref.	Dimensiones (mm)			
3 Flutes (Z3)	Dc	d	Lc	L
H-SEM3010-d3	1	3	3	38
H-SEM3010-d4	1	4	3	50
H-SEM3015-d3	1,5	3	4	38
H-SEM3015-d4	1,5	4	4	50
H-SEM3020-d3	2	3	6	38
H-SEM3020-d4	2	4	6	50
H-SEM3025-d3	2,5	3	8	38
H-SEM3025-d4	2,5	4	8	50
H-SEM3030-d3	3	3	8	38
H-SEM3030-d4	3	4	8	50
H-SEM3030-d6	3	6	8	50
H-SEM3035-d4	3,5	4	8	50
H-SEM3040-d4	4	4	11	50
H-SEM3040-d6	4	6	11	50

Z3 FRESA FRENTE RECTO Serie Normal

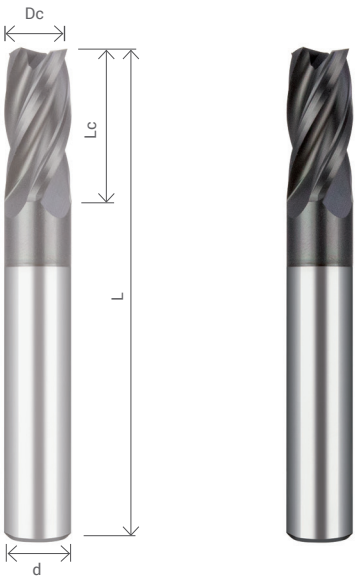
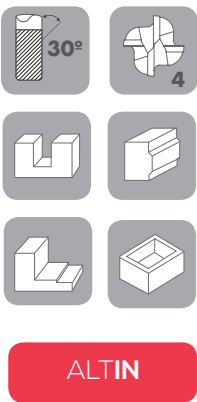
EN Z3 SQUARE END MILL | Normal Series
FR Z3 FRAISE CYLINDRIQUE EN BOUT | Normale
DE Z3 LANGLOCHFRÄFER | Normale

Ref.	Dimensiones (mm)			
3 Flutes (Z3)	Dc	d	Lc	L
H-SEM3045-d6	4,5	6	11	50
H-SEM3050	5	5	13	50
H-SEM3050-d6	5	6	13	50
H-SEM3055-d6	5,5	6	16	50
H-SEM3060	6	6	16	50
H-SEM3063	6,35	8	19	60
H-SEM3065	6,5	8	19	60
H-SEM3070	7	8	19	60
H-SEM3075	7,5	8	19	60
H-SEM3080	8	8	19	60
H-SEM3085	8,5	10	22	72
H-SEM3090	9	10	22	72
H-SEM3095	9,5	10	22	72
H-SEM3100	10	10	22	72
H-SEM3105	10,5	12	26	75
H-SEM3110	11	12	26	75
H-SEM3115	11,5	12	26	75
H-SEM3120	12	12	26	75
H-SEM3125	12,5	14	30	84
H-SEM3130	13	14	30	84
H-SEM3140	14	14	30	84
H-SEM3150	15	16	32	92
H-SEM3160	16	16	32	92
H-SEM3170	17	18	38	100
H-SEM3180	18	18	38	100
H-SEM3185	18,5	20	38	100
H-SEM3190	19	20	38	100
H-SEM3200	20	20	38	100
H-SEM3220	22	22	38	100
H-SEM3250	25	25	45	100

Z4 FRESA FRENTE RECTO Serie Normal

- EN Z4 SQUARE END MILL | Normal Series
FR Z4 FRAISE CYLINDRIQUE EN BOUT | Normale
DE Z4 LANGLOCHFRÄSER | Normale

- ES Acero, Acero Inoxidable, Fundición Gris, Cobre, Titanio y Aceros hasta 56 HRC.
- EN Steel, Stainless Steel, Cast Iron, Cooper, Titanium and Hardened Steels up to 56 HRC.
- FR Acier, Acier Inoxydable, Fonte Grise, Cuivre, Titane et Acier Jusqu'à 56 HRC.
- DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter Stahl 56 HRC.



SERIE NORMAL

Ref.	Dimensiones (mm)			
4 Flutes (Z4)	Dc	d	Lc	L
H-SEM4010-d3	1	3	3	38
H-SEM4010-d4	1	4	3	50
H-SEM4015-d3	1,5	3	4	38
H-SEM4015-d4	1,5	4	4	50
H-SEM4020-d3	2	3	6	38
H-SEM4020-d4	2	4	6	50
H-SEM4025-d3	2,5	3	8	38
H-SEM4025-d4	2,5	4	8	50
H-SEM4030-d3	3	3	8	38
H-SEM4030-d4	3	4	8	50
H-SEM4030-d6	3	6	8	50
H-SEM4035-d4	3,5	4	8	50
H-SEM4040-d4	4	4	11	50
H-SEM4040-d6	4	6	11	50
H-SEM4045-d6	4,5	6	11	50
H-SEM4050	5	5	13	50
H-SEM4050-d6	5	6	13	50

I Z4 FRESA FRENTE RECTO Serie Normal

Ref.	Dimensiones (mm)			
4 Flutes (Z4)	Dc	d	Lc	L
H-SEM4055-d6	5,5	6	16	50
H-SEM4060	6	6	16	50
H-SEM4060S	6	6	22	58
H-SEM4063	6,35	8	19	60
H-SEM4065	6,5	8	19	60
H-SEM4070	7	8	19	60
H-SEM4075	7,5	8	19	60
H-SEM4080	8	8	19	60
H-SEM4085	8,5	10	22	72
H-SEM4090	9	10	22	72
H-SEM4095	9,5	10	22	72
H-SEM4100	10	10	22	72
H-SEM4100S	10	10	32	80
H-SEM4105	10,5	12	26	75
H-SEM4110	11	12	26	75
H-SEM4115	11,5	12	26	75
H-SEM4120	12	12	26	75
H-SEM4120S	12	12	32	75
H-SEM4125	12,5	14	30	84
H-SEM4130	13	14	30	84
H-SEM4140	14	14	30	84
H-SEM4140S	14	14	50	100
H-SEM4150	15	16	32	92
H-SEM4160	16	16	32	92
H-SEM4160S	16	16	50	100
H-SEM4170	17	18	38	100
H-SEM4180	18	18	38	100
H-SEM4180S	18	18	50	100
H-SEM4185	18,5	20	38	100
H-SEM4190	19	20	38	100
H-SEM4200	20	20	38	100
H-SEM4200S	20	20	50	100
H-SEM4220	22	22	38	100
H-SEM4250	25	25	45	100
H-SEM4250S	25	25	55	110



03

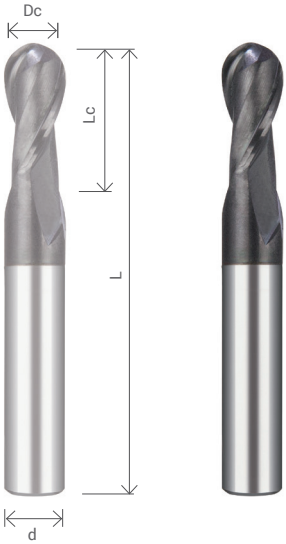
FRESAS esféricas

BALL NOSE END MILL
FRAISE CYLINDRIQUE HÉMISPHERIQUE
KUGELFRÄSER

Z2 FRESAS ESFERICAS Serie Normal

- EN Z2 BALL NOSE END MILL | Normal series
FR Z2 FRAISE CYLINDRIQUE HÉMISPHERIQUE | Normale
DE Z2 KUGELFRÄSER | Normale

- ES Acero, Acero Inoxidable, Fundición Gris, Cobre, Titanio y Aceros hasta 62 HRC.
- EN Steel, Stainless Steel, Cast Iron, Cooper, Titanium and Hardened Steels up to 62 HRC.
- FR Acier, Acier Inoxydable, Fonte Grise, Cuivre, Titane et Acier Jusqu'à 62 HRC.
- DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter Stahl 62 HRC.



SERIE NORMAL

Ref.	Dimensiones (mm)			
2 Flutes (Z2)	Dc	d	Lc	L
H-SBM2010-d3	1	3	2	38
H-SBM2010-d4	1	4	2	50
H-SBM2015-d3	1,5	3	3	38
H-SBM2015-d4	1,5	4	3	50
H-SBM2020-d3	2	3	4	38
H-SBM2020-d4	2	4	4	50
H-SBM2025-d3	2,5	3	5	38
H-SBM2030-d3	3	3	6	38
H-SBM2030-d4	3	4	6	50
H-SBM2040	4	4	8	50
H-SBM2050	5	5	10	50
H-SBM2060	6	6	12	50
H-SBM2070	7	8	15	60
H-SBM2080	8	8	15	60
H-SBM2100	10	10	20	75
H-SBM2120	12	12	20	75

I Z2 FRESAS ESFERICAS Serie Normal

EN Z2 BALL NOSE END MILL | Normal series

FR Z2 FRAISE CYLINDRIQUE HÉMISPHERIQUE | Normale

DE Z2 KUGELFRÄSER | Normale

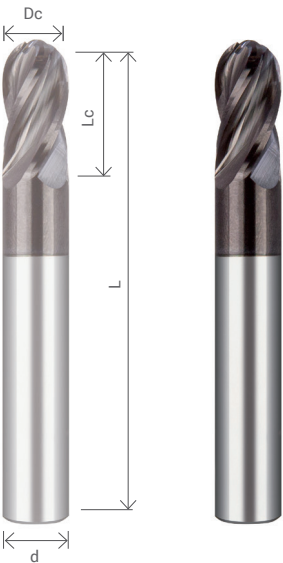


Ref.	Dimensiones (mm)			
2 Flutes (Z2)	Dc	d	Lc	L
H-SBM2140	14	14	25	90
H-SBM2160	16	16	25	100
H-SBM2180	18	18	30	100
H-SBM2200	20	20	30	100

Z4 FRESAS ESFERICAS Serie Normal

- EN Z4 BALL NOSE END MILL | Normal Series
FR Z4 FRAISE CYLINDRIQUE HÉMISPHERIQUE | Normale
DE Z4 KUGELFRÄSER | Normale

- ES Acero, Acero Inoxidable, Fundición Gris, Cobre, Titanio y Aceros hasta 62 HRC.
- EN Steel, Stainless Steel, Cast Iron, Cooper, Titanium and Hardened Steels up to 62 HRC.
- FR Acier, Acier Inoxydable, Fonte Grise, Cuivre, Titane et Acier Jusqu'à 62 HRC.
- DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Gehärteter Stahl 62 HRC.



SERIE NORMAL

Ref.	Dimensiones (mm)			
4 Flutes (Z4)	Dc	d	Lc	L
H-SBM4030	3	3	6	38
H-SBM4040	4	4	8	50
H-SBM4050	5	5	10	50
H-SBM4060	6	6	12	50
H-SBM4080	8	8	15	60
H-SBM4100	10	10	20	75
H-SBM4120	12	12	20	75
H-SBM4140	14	14	25	90
H-SBM4160	16	16	25	100
H-SBM4180	18	18	30	100
H-SBM4200	20	20	30	100

04

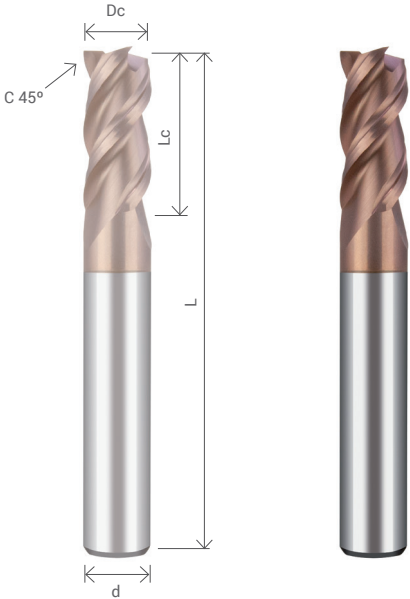
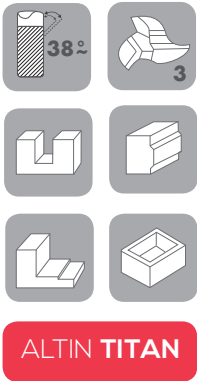
FRESAS de alto rendimiento y específicas

HIGH PERFORMANCE END MILLS
HAUTE PERFORMANCE
SHOCHLEISTUNGSBEARBEITUNG

Z3 HYPERLINK: FRESA HELICE VARIABLE 35°/38°
CHAFLAN EN ESQUINA / SERIE ECONÓMICA

EN Z3 HYPERLINK. UNEQUAL HELIX ANGLES 35°-38° | ECONOMY
FR Z3 HYPERLINK. VARIABLE HELIX 35°-38° | ÉCONOMIQUE
DE Z3 HYPERLINK. UNGLEICHER DRALLWINKEL 35°-38° | WIRTSCHAFTLICH

- ES** Acero, Acero Inoxidable, Fundición Gris, Cobre, Titanio, Aleaciones Resistentes al Calor y Aceros hasta 56 HRC.
- EN** Steel, Stainless Steel, Cast Iron, Cooper, Titanium, Heat Resistance Alloys and Hardened Steels up to 56 HRC.
- FR** Acier, Acier Inoxydable, Fonte Grise, Cuivre, Titane, Alliages de Résistance à la Chaleur et Acier Jusqu'à 56 HRC.
- DE** Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Warmfeste Legierungen und Gehärteter Stahl 56 HRC.



HELICE 35°/38°

Ref.	Dimensiones (mm)				
3 Flutes (Z3)	Dc	d	LC	C-45°	L
HYP-3030R	3	6	8	0,05	50
HYP-3040R	4	6	11	0,06	50
HYP-3050R	5	6	13	0,07	50
HYP-3060R	6	6	16	0,10	50
HYP-3080R	8	8	19	0,15	60
HYP-3100R	10	10	22	0,15	73
HYP-3120R	12	12	26	0,25	75
HYP-3140R	14	14	30	0,30	85
HYP-3160R	16	16	32	0,35	92
HYP-3180R	18	18	38	0,35	92
HYP-3200R	20	20	38	0,35	100

Z4 HYPERLINK: FRESA HELICE VARIABLE 35°/38° CHAFLAN EN ESQUINA / SERIE ECONÓMICA

EN Z4 HYPERLINK. UNEQUAL HELIX ANGLES 35°-38° | ECONOMY

FR Z4 HYPERLINK. VARIABLE HELIX 35°-38° | ÉCONOMIQUE

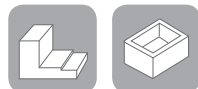
DE Z4 HYPERLINK. UNGLEICHER DRALLWINKEL 35°-38° | WIRTSCHAFTLICH

ES Acero, Acero Inoxidable, Fundición Gris, Cobre, Titanio, Aleaciones Resistentes al Calor y Aceros hasta 56 HRC.

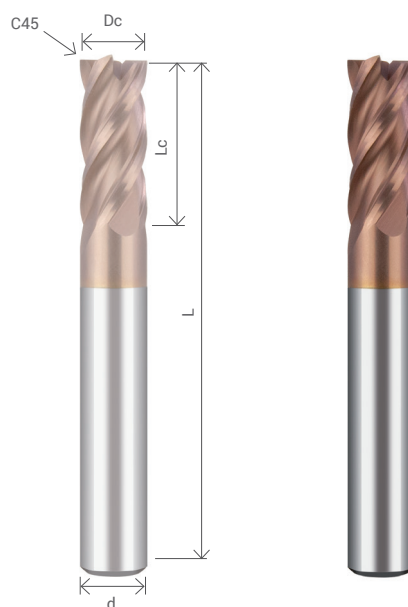
EN Steel, Stainless Steel, Cast Iron, Cooper, Titanium, Heat Resistance Alloys and Hardened Steels up to 56 HRC.

FR Acier, Acier Inoxydable, Fonte Grise, Cuivre, Titane, Alliages de Résistance à la Chaleur et Acier Jusqu'à 56 HRC.

DE Stahl, Rostfreier Stahl, Gubeisen, Kupfer, Titan, Warmfeste Legierungen und Gehärteter Stahl 56 HRC.



ALTIN TITAN



HELICE 35°/38°

Ref.	Dimensiones (mm)				
	Dc	d	LC	C-45°	L
4 Flutes (Z4)					
HYP-4030R	3	6	8	0,05	50
HYP-4040R	4	6	11	0,06	50
HYP-4050R	5	6	13	0,07	50
HYP-4060R	6	6	16	0,10	50
HYP-4080R	8	8	19	0,15	60
HYP-4100R	10	10	22	0,15	73
HYP-4120R	12	12	26	0,25	75
HYP-4140R	14	14	30	0,30	85
HYP-4160R	16	16	32	0,35	92
HYP-4180R	18	18	38	0,35	92
HYP-4200R	20	20	38	0,35	100



DISEÑO
CONTROL
FABRICACIÓN
DISTRIBUCIÓN



CATÁLOGO DE FRESAS reducido

PRODUCT CATALOGUE
CATALOGUE DES PRODUITS
PRODUKTKATALOG



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