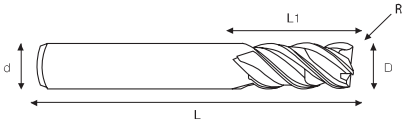
Settore aerospaziale

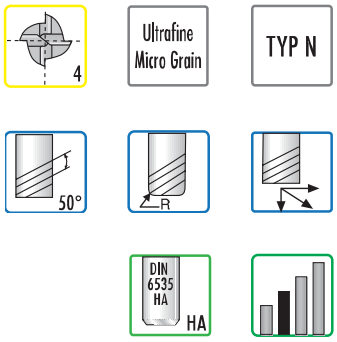
Aerospace

Frese elicoidali Z4 doppia gola taglio al centro

Helix corner radius end mills 4 flutes center cutting special tapered deep flute section

SERIES
NOVA





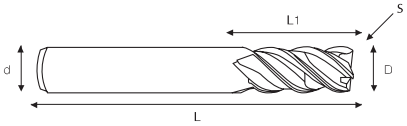
D h10	L1	L	d h6	R	Z	Code	€ uncoated	€ TiAlN	€ Advanced
4	11	57	6	0,5	4	**NOVA004R**	27,50	32,40	39,70
6	13	57	6	0,5	4	**NOVA006R**	27,50	32,40	39,70
8	19	63	8	0,5	4	**NOVA008R**	36,20	42,10	50,40
10	22	72	10	1	4	**NOVA010R**	50,10	57,30	66,50
12	26	83	12	1	4	**NOVA012R**	67,20	76,10	86,50
14	26	83	14	1	4	**NOVA014R**	81,30	91,00	101,90
16	32	92	16	1	4	**NOVA016R**	105,10	114,70	125,60
18	32	92	18	1	4	**NOVA018R**	128,30	139,90	152,00
20	38	104	20	1	4	**NOVA020R**	164,20	182,20	199,00

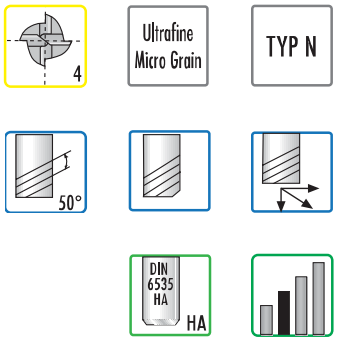
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	○	●	○	○	●	●	●	○

Frese elicoidali Z4 doppia gola taglio al centro

Helix chamfered end mills 4 flutes center cutting special tapered deep flute section

SERIES
NOVAS





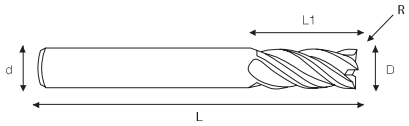
D h10	L1	L	d h6	S 0,1 - 0,2 x 45°	Z	Code	€ uncoated	€ TiAlN	€ Advanced
4	11	57	6	0,1 - 0,2 x 45°	4	**NOVA004S**	25,50	30,40	37,70
6	13	57	6	0,1 - 0,2 x 45°	4	**NOVA006S**	25,50	30,40	37,70
8	19	63	8	0,1 - 0,2 x 45°	4	**NOVA008S**	33,20	39,10	47,40
10	22	72	10	0,1 - 0,2 x 45°	4	**NOVA010S**	46,10	53,30	62,50
12	26	83	12	0,1 - 0,2 x 45°	4	**NOVA012S**	62,20	71,10	81,50
14	26	83	14	0,1 - 0,2 x 45°	4	**NOVA014S**	76,30	86,00	96,90
16	32	92	16	0,1 - 0,2 x 45°	4	**NOVA016S**	99,10	108,70	119,60
18	32	92	18	0,1 - 0,2 x 45°	4	**NOVA018S**	122,30	133,90	146,00
20	38	104	20	0,1 - 0,2 x 45°	4	**NOVA020S**	158,20	176,20	193,00

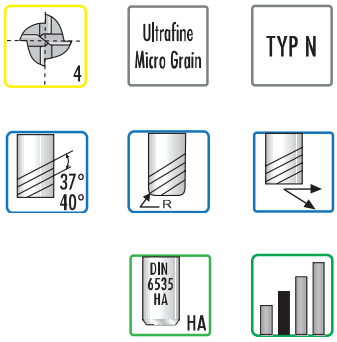
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	○	●	○	○	●	●	●	○

Frese toriche Z4 elica passo variabile taglio al centro

Helix corner radius end mills 4 flutes variable helix center cutting

SERIES
SILR





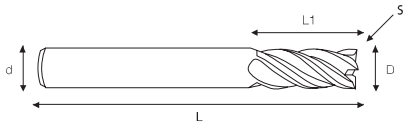
D h10	L1	L	d h6	R	Z	Code	€ uncoated	€ TiAlN	€ Advanced
3	7	57	6	0,5	4	**SIL0305RT**	29,00	33,90	41,50
4	8	57	6	0,5	4	**SIL0405RT**	29,00	33,90	41,50
6	13	57	6	1	4	**SIL061RT**	29,00	33,90	41,50
8	19	63	8	1,5	4	**SIL0815RT**	40,20	46,10	54,40
8	19	63	8	2	4	**SIL082RT**	40,20	46,10	54,40
10	22	72	10	1,5	4	**SIL1015RT**	53,10	60,30	69,50
10	22	72	10	2	4	**SIL102RT**	53,10	60,30	69,50
12	26	83	12	1,5	4	**SIL1215RT**	69,20	78,10	88,50
12	26	83	12	2	4	**SIL122RT**	69,20	78,10	88,50
14	26	83	14	2	4	**SIL142RT**	85,60	95,30	106,10
16	26	92	16	2	4	**SIL162RT**	110,60	120,20	131,10
18	26	92	18	2	4	**SIL182RT**	130,00	141,60	153,70
20	32	104	20	2	4	**SIL202RT**	162,90	181,30	197,70

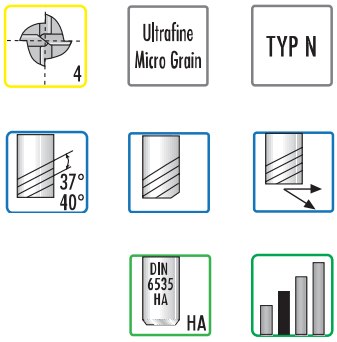
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

Frese smussate Z4 elica passo variabile taglio al centro

Helix chamfered end mills 4 flutes variable helix center cutting

SERIES
SIL





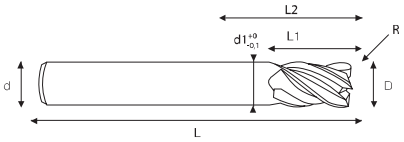
D h10	L1	L	d h6	S 0,1 - 0,2 x 45°	Z	Code	€ uncoated	€ TiAlN	€ Advanced
3	7	57	6	0,1 - 0,2 x 45°	4	**SIL0003T**	26,00	30,00	37,00
4	8	57	6	0,1 - 0,2 x 45°	4	**SIL0004T**	26,00	30,00	37,00
6	13	57	6	0,1 - 0,2 x 45°	4	**SIL0006T**	26,00	30,00	37,00
8	19	63	8	0,1 - 0,2 x 45°	4	**SIL0008T**	35,70	41,60	49,90
10	22	72	10	0,1 - 0,2 x 45°	4	**SIL0010T**	48,60	55,80	65,00
12	26	83	12	0,1 - 0,2 x 45°	4	**SIL0012T**	65,30	74,30	84,60
14	26	83	14	0,1 - 0,2 x 45°	4	**SIL0014T**	81,10	90,80	101,60
16	26	92	16	0,1 - 0,2 x 45°	4	**SIL0016T**	103,80	113,50	124,40
18	26	92	18	0,1 - 0,2 x 45°	4	**SIL0018T**	122,50	134,10	146,20
20	32	104	20	0,1 - 0,2 x 45°	4	**SIL0020T**	158,40	176,80	193,20

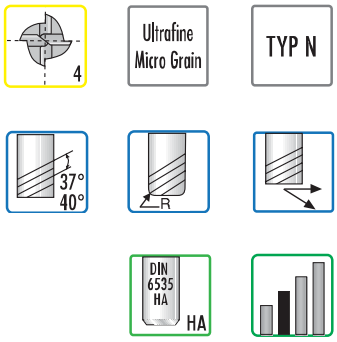
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

Frese Z4 elica passo variabile taglio al centro, lavorazione duplex e acciai

Helix corner radius end mills 4 flutes variable helix center cutting, duplex and alloy steels application

SERIES
DV





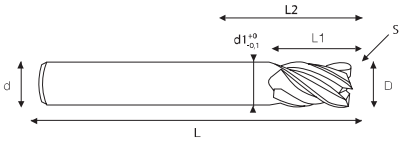
D h10	L1	L2	L	d h6	d1	R	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	13	25	57	6	5,8	0,5	4	**DV06R05**	34,00	40,00	46,20
8	19	31	63	8	7,8	0,5	4	**DV08R05**	45,00	55,00	59,20
10	22	34	72	10	9,8	1	4	**DV10R1**	62,00	72,00	78,40
12	26	38	83	12	11,8	1	4	**DV12R1**	80,00	90,00	99,30
14	26	38	83	14	13,8	1	4	**DV14R1**	91,00	102,00	111,50
16	26	38	92	16	15,8	1	4	**DV16R1**	110,00	126,00	130,60
18	26	38	92	18	17,8	1	4	**DV18R1**	130,00	146,00	153,30
20	32	44	104	20	19,8	1	4	**DV20R1**	166,00	184,00	200,00

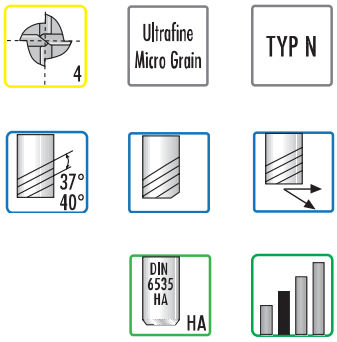
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	◑	○	●	○	○	○	○	○	○

Frese Z4 elica passo variabile taglio al centro, lavorazione duplex e acciai

Helix chamfered end mills 4 flutes variable helix center cutting, duplex and alloy steels application

SERIES
DVS





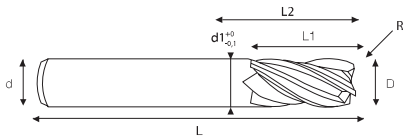
D h10	L1	L2	L	d h6	d1	S 0,1 - 0,2 x 45°	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	13	25	57	6	5,8	0,1 - 0,2 x 45°	4	**DV06S**	31,00	37,00	43,20
8	19	31	63	8	7,8	0,1 - 0,2 x 45°	4	**DV08S**	42,00	52,00	56,20
10	22	34	72	10	9,8	0,1 - 0,2 x 45°	4	**DV10S**	58,00	68,00	74,40
12	26	38	83	12	11,8	0,1 - 0,2 x 45°	4	**DV12S**	75,00	85,00	94,30
14	26	38	83	14	13,8	0,1 - 0,2 x 45°	4	**DV14S**	86,00	97,00	106,50
16	26	38	92	16	15,8	0,1 - 0,2 x 45°	4	**DV16S**	104,00	120,00	124,60
18	26	38	92	18	17,8	0,1 - 0,2 x 45°	4	**DV18S**	124,00	130,00	147,30
20	32	44	104	20	19,8	0,1 - 0,2 x 45°	4	**DV20S**	161,00	179,00	196,00

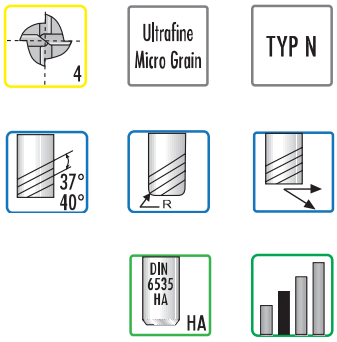
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	◑	○	●	○	○	○	○	○	○

Frese Z4 elica passo variabile taglio al centro, lavorazione Inox

Helix corner radius end mills 4 flutes variable helix center cutting, stainless steel application

SERIES
IB





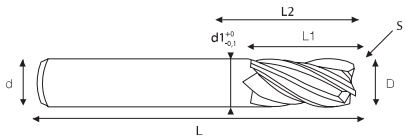
D h10	L1	L2	L	d h6	d1	R	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	13	25	57	6	5,8	0,5	4	**IB06R05**	34,00	40,00	46,20
8	19	31	63	8	7,8	0,5	4	**IB08R05**	45,00	55,00	59,20
10	22	34	72	10	9,8	1	4	**IB10R1**	62,00	72,00	78,40
12	26	38	83	12	11,8	1	4	**IB12R1**	80,00	90,00	99,30
14	26	38	83	14	13,8	1	4	**IB14R1**	91,00	102,00	111,50
16	26	38	92	16	15,8	1	4	**IB16R1**	110,00	126,00	130,60
18	26	38	92	18	17,8	1	4	**IB18R1**	130,00	146,00	153,30
20	32	44	104	20	19,8	1	4	**IB20R1**	166,00	184,00	200,00

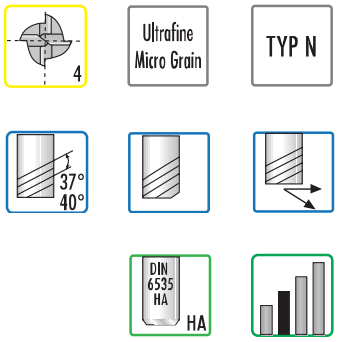
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	◑	○	●	○	○	○	○	○	○

Frese Z4 elica passo variabile taglio al centro, lavorazione Inox

Helix chamfered end mills 4 flutes variable helix center cutting, stainless steel application

SERIES
IBS





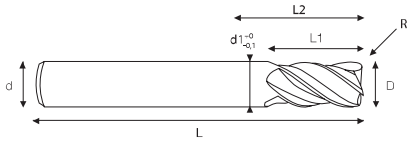
D h10	L1	L2	L	d h6	d1	S 0,1 - 0,2 x 45°	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	13	25	57	6	5,8	0,1 - 0,2 x 45°	4	**IB06S**	31,00	37,00	43,20
8	19	31	63	8	7,8	0,1 - 0,2 x 45°	4	**IB08S**	42,00	52,00	56,20
10	22	34	72	10	9,8	0,1 - 0,2 x 45°	4	**IB10S**	58,00	68,00	74,40
12	26	38	83	12	11,8	0,1 - 0,2 x 45°	4	**IB12S**	75,00	85,00	94,30
14	26	38	83	14	13,8	0,1 - 0,2 x 45°	4	**IB14S**	86,00	97,00	106,50
16	26	38	92	16	15,8	0,1 - 0,2 x 45°	4	**IB16S**	104,00	120,00	124,60
18	26	38	92	18	17,8	0,1 - 0,2 x 45°	4	**IB18S**	124,00	130,00	147,30
20	32	44	104	20	19,8	0,1 - 0,2 x 45°	4	**IB20S**	161,00	179,00	196,00

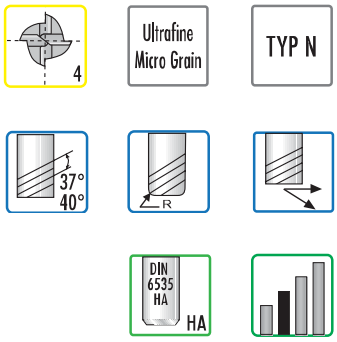
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	◑	○	●	○	○	○	○	○	○

Frese Z4 elica passo variabile taglio al centro, lavorazione inconel e acciai alta resistenza

Helix corner radius end mills 4 flutes variable helix center cutting, inconel application and high resistence alloyes

SERIES
IR





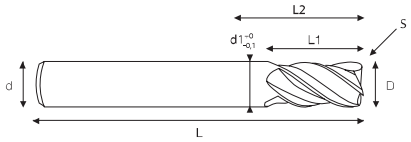
D h10	L1	L2	L	d h6	d1	R	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	13	25	57	6	5,8	0,5	4	**IR06R05**	34,00	40,00	46,20
8	19	31	63	8	7,8	0,5	4	**IR08R05**	45,00	55,00	59,20
10	22	34	72	10	9,8	1	4	**IR10R1**	62,00	72,00	78,40
12	26	38	83	12	11,8	1	4	**IR12R1**	80,00	90,00	99,30
14	26	38	83	14	13,8	1	4	**IR14R1**	91,00	102,00	111,50
16	26	38	92	16	15,8	1	4	**IR16R1**	110,00	126,00	130,60
18	26	38	92	18	17,8	1	4	**IR18R1**	130,00	146,00	153,30
20	32	44	104	20	19,8	1	4	**IR20R1**	166,00	184,00	200,00

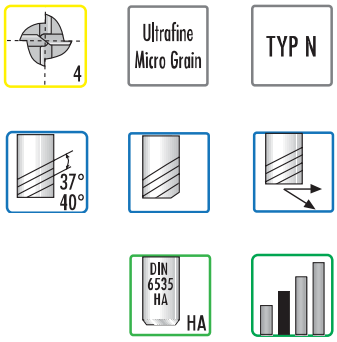
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	◑	○	○	○	○	◑	◑	●	○

Frese Z4 elica passo variabile taglio al centro, lavorazione inconel e acciai alta resistenza

Helix chamfered end mills 4 flutes variable helix center cutting, inconel application and high resistence alloyes

SERIES
IRS





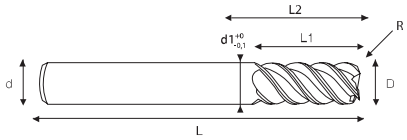
D h10	L1	L2	L	d h6	d1	S 0,1 - 0,2 x 45°	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	13	25	57	6	5,8	0,1 - 0,2 x 45°	4	**IR06S**	31,00	37,00	43,20
8	19	31	63	8	7,8	0,1 - 0,2 x 45°	4	**IR08S**	42,00	52,00	56,20
10	22	34	72	10	9,8	0,1 - 0,2 x 45°	4	**IR10S**	58,00	68,00	74,40
12	26	38	83	12	11,8	0,1 - 0,2 x 45°	4	**IR12S**	75,00	85,00	94,30
14	26	38	83	14	13,8	0,1 - 0,2 x 45°	4	**IR14S**	86,00	97,00	106,50
16	26	38	92	16	15,8	0,1 - 0,2 x 45°	4	**IR16S**	104,00	120,00	124,60
18	26	38	92	18	17,8	0,1 - 0,2 x 45°	4	**IR18S**	124,00	130,00	147,30
20	32	44	104	20	19,8	0,1 - 0,2 x 45°	4	**IR20S**	161,00	179,00	196,00

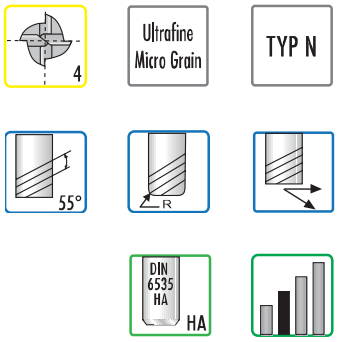
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	◑	○	○	○	○	◑	◑	●	○

Frese Z4 taglio al centro, lavorazione titanio

Helix corner radius 55° end mills 4 flutes center cutting, titanium and exotic materials application

SERIES
TA





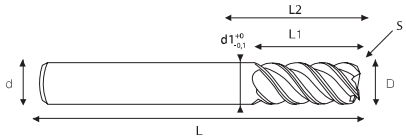
D h10	L1	L2	L	d h6	d1	R	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	13	25	57	6	5,8	0,5	4	**TA06R05**	34,00	40,00	46,20
8	19	31	63	8	7,8	0,5	4	**TA08R05**	45,00	55,00	59,20
10	22	34	72	10	9,8	1	4	**TA10R1**	62,00	72,00	78,40
12	26	38	83	12	11,8	1	4	**TA12R1**	80,00	90,00	99,30
14	26	38	83	14	13,8	1	4	**TA14R1**	91,00	102,00	111,50
16	26	38	92	16	15,8	1	4	**TA16R1**	110,00	126,00	130,60
18	26	38	92	18	17,8	1	4	**TA18R1**	130,00	146,00	153,30
20	32	44	104	20	19,8	1	4	**TA20R1**	166,00	184,00	200,00

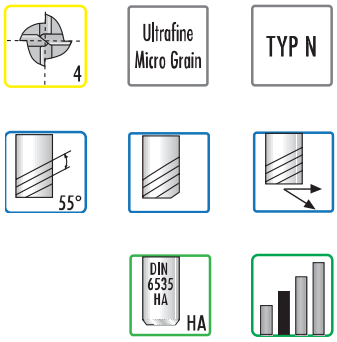
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	◑	○	○	○	○	◑	◑	●	○

Frese Z4 taglio al centro, lavorazione titanio

Helix chamfered 55° end mills 4 flutes center cutting, titanium and exotic materials application

SERIES
TAS





D h10	L1	L2	L	d h6	d1	S 0,1 - 0,2 x 45°	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	13	25	57	6	5,8	0,1 - 0,2 x 45°	4	**TA06S**	31,00	37,00	43,20
8	19	31	63	8	7,8	0,1 - 0,2 x 45°	4	**TA08S**	42,00	52,00	56,20
10	22	34	72	10	9,8	0,1 - 0,2 x 45°	4	**TA10S**	58,00	68,00	74,40
12	26	38	83	12	11,8	0,1 - 0,2 x 45°	4	**TA12S**	75,00	85,00	94,30
14	26	38	83	14	13,8	0,1 - 0,2 x 45°	4	**TA14S**	86,00	97,00	106,50
16	26	38	92	16	15,8	0,1 - 0,2 x 45°	4	**TA16S**	104,00	120,00	124,60
18	26	38	92	18	17,8	0,1 - 0,2 x 45°	4	**TA18S**	124,00	130,00	147,30
20	32	44	104	20	19,8	0,1 - 0,2 x 45°	4	**TA20S**	161,00	179,00	196,00

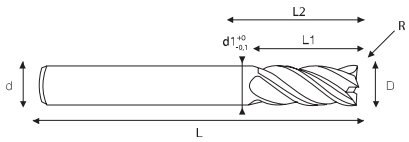
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	◑	○	○	○	○	◑	◑	●	○

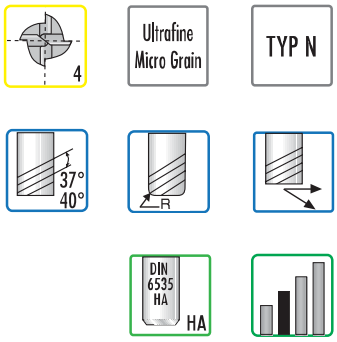
Frese Helicurve Z4 divisione irregolare 37°/40° toriche

Helicurve 4 flute corner chamfer radius unequal helix end mills high performances

SERIES
H4

NEW





D	R	L1	L2	d1	L	d	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	0,5	13	36	5,8	60	6	4	**H406R05**	34,00	40,00	46,00
6	1	13	36	5,8	60	6	4	**H406R1**	34,00	40,00	46,00
8	0,5	19	36	7,8	63	8	4	**H408R05**	46,00	56,00	60,00
8	1	19	36	7,8	63	8	4	**H408R1**	46,00	56,00	60,00
8	1,5	19	36	7,8	63	8	4	**H408R15**	46,00	56,00	60,00
8	2	19	36	7,8	63	8	4	**H408R2**	46,00	56,00	60,00
8	3	19	36	7,8	63	8	4	**H408R3**	46,00	56,00	60,00
8	4	19	36	7,8	63	8	4	**H408R4**	46,00	56,00	60,00
10	1	22	40	9,5	75	10	4	**H410R1**	61,00	71,00	77,00
10	1,5	22	40	9,5	75	10	4	**H410R15**	61,00	71,00	77,00
10	2	22	40	9,5	75	10	4	**H410R2**	61,00	71,00	77,00
10	3	22	40	9,5	75	10	4	**H410R3**	61,00	71,00	77,00
10	4	22	40	9,5	75	10	4	**H410R4**	61,00	71,00	77,00
12	1	26	45	11,5	83	12	4	**H412R1**	81,00	90,00	99,00
12	1,5	26	45	11,5	83	12	4	**H412R15**	81,00	90,00	99,00
12	2	26	45	11,5	83	12	4	**H412R2**	81,00	90,00	99,00
12	3	26	45	11,5	83	12	4	**H412R3**	81,00	90,00	99,00
12	4	26	45	11,5	83	12	4	**H412R4**	81,00	90,00	99,00
16	1	32	48	15	100	16	4	**H416R1**	130,00	142,00	149,00
16	1,5	32	48	15	100	16	4	**H41615**	130,00	142,00	149,00
16	2	32	48	15	100	16	4	**H416R2**	130,00	142,00	149,00
16	3	32	48	15	100	16	4	**H416R3**	130,00	142,00	149,00
16	4	32	48	15	100	16	4	**H416R4**	130,00	142,00	149,00
16	5	32	48	15	100	16	4	**H416R5**	130,00	142,00	149,00
16	6	32	48	15	100	16	4	**H416R6**	130,00	142,00	149,00
20	1	40	50	19	110	20	4	**H420R1**	200,00	215,00	225,00
20	1,5	40	50	19	110	20	4	**H420R15**	200,00	215,00	225,00
20	2	40	50	19	110	20	4	**H420R2**	200,00	215,00	225,00
20	3	40	50	19	110	20	4	**H420R3**	200,00	215,00	225,00
20	4	40	50	19	110	20	4	**H420R4**	200,00	215,00	225,00
20	5	40	50	19	110	20	4	**H420R5**	200,00	215,00	225,00
20	6	40	50	19	110	20	4	**H420R6**	200,00	215,00	225,00

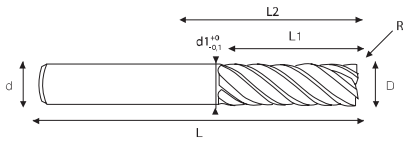
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

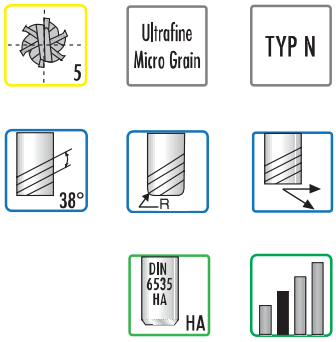
Frese Helicurve Z5 divisione irregolare 38° toriche

Helicurve 5 flute corner chamfer radius unequal helix end mills high performances

SERIES
H5

NEW





D	R	L1	L2	d1	L	d	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	0,5	13	36	5,8	60	6	5	**H506R05**	39,00	45,00	51,00
6	1	13	36	5,8	60	6	5	**H506R1**	39,00	45,00	51,00
8	0,5	19	36	7,8	63	8	5	**H508R05**	52,00	62,00	66,00
8	1	19	36	7,8	63	8	5	**H508R1**	52,00	62,00	66,00
8	1,5	19	36	7,8	63	8	5	**H508R15**	52,00	62,00	66,00
8	2	19	36	7,8	63	8	5	**H508R2**	52,00	62,00	66,00
8	3	19	36	7,8	63	8	5	**H508R3**	52,00	62,00	66,00
8	4	19	36	7,8	63	8	5	**H508R4**	52,00	62,00	66,00
10	1	22	40	9,5	75	10	5	**H510R1**	66,00	76,00	82,00
10	1,5	22	40	9,5	75	10	5	**H510R15**	66,00	76,00	82,00
10	2	22	40	9,5	75	10	5	**H510R2**	66,00	76,00	82,00
10	3	22	40	9,5	75	10	5	**H510R3**	66,00	76,00	82,00
10	4	22	40	9,5	75	10	5	**H510R4**	66,00	76,00	82,00
12	1	26	45	11,5	83	12	5	**H512R1**	85,00	94,00	103,00
12	1,5	26	45	11,5	83	12	5	**H512R15**	85,00	94,00	103,00
12	2	26	45	11,5	83	12	5	**H512R2**	85,00	94,00	103,00
12	3	26	45	11,5	83	12	5	**H512R3**	85,00	94,00	103,00
12	4	26	45	11,5	83	12	5	**H512R4**	85,00	94,00	103,00
16	1	32	48	15	100	16	5	**H516R1**	144,00	156,00	163,00
16	1,5	32	48	15	100	16	5	**H516R15**	144,00	156,00	163,00
16	2	32	48	15	100	16	5	**H516R2**	144,00	156,00	163,00
16	3	32	48	15	100	16	5	**H516R3**	144,00	156,00	163,00
16	4	32	48	15	100	16	5	**H516R4**	144,00	156,00	163,00
16	5	32	48	15	100	16	5	**H516R5**	144,00	156,00	163,00
16	6	32	48	15	100	16	5	**H516R6**	144,00	156,00	163,00
20	1	40	50	19	110	20	5	**H520R1**	211,00	226,00	236,00
20	1,5	40	50	19	110	20	5	**H520R15**	211,00	226,00	236,00
20	2	40	50	19	110	20	5	**H520R2**	211,00	226,00	236,00
20	3	40	50	19	110	20	5	**H520R3**	211,00	226,00	236,00
20	4	40	50	19	110	20	5	**H520R4**	211,00	226,00	236,00
20	5	40	50	19	110	20	5	**H520R5**	211,00	226,00	236,00
20	6	40	50	19	110	20	5	**H520R6**	211,00	226,00	236,00

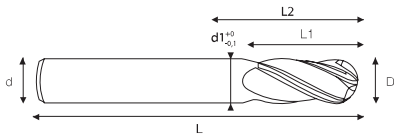
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

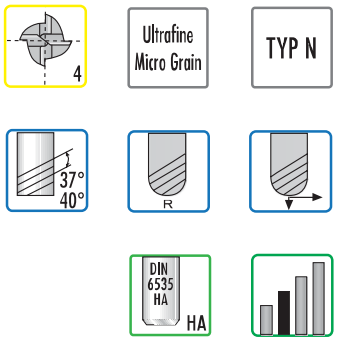
Frese Helicurve Z4 divisione irregolare 37°/40° raggiate

Helicurve 4 flute ball nose unequal helix end mills high performances

SERIES
H4R

NEW





D	L1	L2	d1	L	d	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	13	36	5,8	60	6	4	**H4R06**	34,00	40,00	46,00
8	19	36	7,8	63	8	4	**H4R08**	46,00	56,00	60,00
10	22	40	9,5	75	10	4	**H4R10**	61,00	71,00	77,00
12	26	45	11,5	83	12	4	**H4R12**	81,00	90,00	99,00
16	32	48	15	100	16	4	**H4R16**	130,00	142,00	149,00
20	40	50	19	110	20	4	**H4R20**	200,00	215,00	225,00

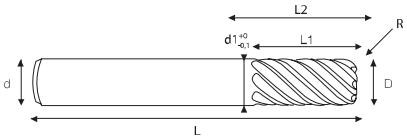
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

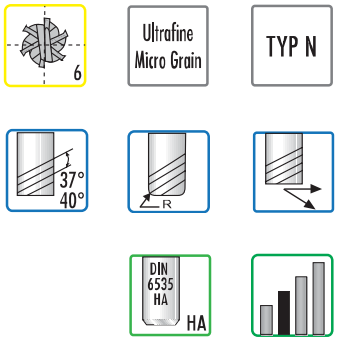
Frese Helicurve Z6 divisione irregolare 37°/40° toriche

Helicurve 6 flute corner chamfer radius unequal helix end mills high performances

SERIES
H6

NEW





D	R	L1	L2	d1	L	d	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	0,5	13	36	5,8	60	6	6	**H606R05**	43,50	49,50	54,50
6	1	13	36	5,8	60	6	6	**H606R1**	43,50	49,50	54,50
8	0,5	19	36	7,8	63	8	6	**H608R05**	56,50	66,50	70,50
8	1	19	36	7,8	63	8	6	**H608R1**	56,50	66,50	70,50
8	1,5	19	36	7,8	63	8	6	**H608R15**	56,50	66,50	70,50
8	2	19	36	7,8	63	8	6	**H608R2**	56,50	66,50	70,50
8	3	19	36	7,8	63	8	6	**H608R3**	56,50	66,50	70,50
8	4	19	36	7,8	63	8	6	**H608R4**	56,50	66,50	70,50
10	1	22	40	9,5	75	10	6	**H610R1**	71,50	81,50	87,50
10	1,5	22	40	9,5	75	10	6	**H610R15**	71,50	81,50	87,50
10	2	22	40	9,5	75	10	6	**H610R2**	71,50	81,50	87,50
10	3	22	40	9,5	75	10	6	**H610R3**	71,50	81,50	87,50
10	4	22	40	9,5	75	10	6	**H610R4**	71,50	81,50	87,50
12	1	26	45	11,5	83	12	6	**H612R1**	89,50	98,50	107,50
12	1,5	26	45	11,5	83	12	6	**H612R15**	89,50	98,50	107,50
12	2	26	45	11,5	83	12	6	**H612R2**	89,50	98,50	107,50
12	3	26	45	11,5	83	12	6	**H612R3**	89,50	98,50	107,50
12	4	26	45	11,5	83	12	6	**H612R4**	89,50	98,50	107,50
16	1	32	48	15	100	16	6	**H616R1**	148,00	160,00	160,00
16	1,5	32	48	15	100	16	6	**H616R15**	148,00	160,00	160,00
16	2	32	48	15	100	16	6	**H616R2**	148,00	160,00	160,00
16	3	32	48	15	100	16	6	**H616R3**	148,00	160,00	160,00
16	4	32	48	15	100	16	6	**H616R4**	148,00	160,00	160,00
16	5	32	48	15	100	16	6	**H616R5**	148,00	160,00	160,00
16	6	32	48	15	100	16	6	**H616R6**	148,00	160,00	160,00
20	1	40	50	19	110	20	6	**H620R1**	216,00	231,00	241,00
20	1,5	40	50	19	110	20	6	**H620R15**	216,00	231,00	241,00
20	2	40	50	19	110	20	6	**H620R2**	216,00	231,00	241,00
20	3	40	50	19	110	20	6	**H620R3**	216,00	231,00	241,00
20	4	40	50	19	110	20	6	**H620R4**	216,00	231,00	241,00
20	5	40	50	19	110	20	6	**H620R5**	216,00	231,00	241,00
20	6	40	50	19	110	20	6	**H620R6**	216,00	231,00	241,00

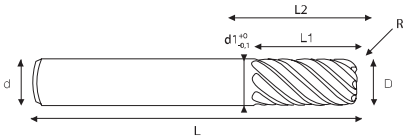
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

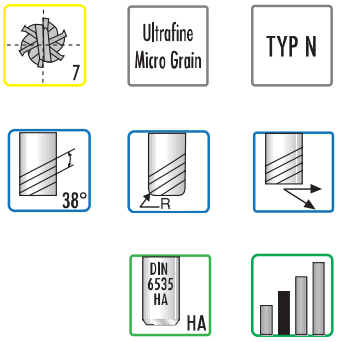
Frese Helicurve Z7 divisione irregolare 38°

Helicurve 7 flute corner chamfer radius unequal helix end mills high performances

SERIES
H7

NEW





D	R	L1	L2	d1	L	d	Z	Code	€ uncoated	€ TiAlN	€ Advanced
6	0,5	13	36	5,8	60	6	7	**H706R05**	43,50	49,50	54,50
6	1	13	36	5,8	60	6	7	**H706R1**	43,50	49,50	54,50
8	0,5	19	36	7,8	63	8	7	**H708R05**	56,50	66,50	70,50
8	1	19	36	7,8	63	8	7	**H708R1**	56,50	66,50	70,50
8	1,5	19	36	7,8	63	8	7	**H708R15**	56,50	66,50	70,50
8	2	19	36	7,8	63	8	7	**H708R2**	56,50	66,50	70,50
8	3	19	36	7,8	63	8	7	**H708R3**	56,50	66,50	70,50
8	4	19	36	7,8	63	8	7	**H708R4**	56,50	66,50	70,50
10	1	22	40	9,5	75	10	7	**H710R1**	71,50	81,50	87,50
10	1,5	22	40	9,5	75	10	7	**H710R15**	71,50	81,50	87,50
10	2	22	40	9,5	75	10	7	**H710R2**	71,50	81,50	87,50
10	3	22	40	9,5	75	10	7	**H710R3**	71,50	81,50	87,50
10	4	22	40	9,5	75	10	7	**H710R4**	71,50	81,50	87,50
12	1	26	45	11,5	83	12	7	**H712R1**	89,50	98,50	107,50
12	1,5	26	45	11,5	83	12	7	**H712R15**	89,50	98,50	107,50
12	2	26	45	11,5	83	12	7	**H712R2**	89,50	98,50	107,50
12	3	26	45	11,5	83	12	7	**H712R3**	89,50	98,50	107,50
12	4	26	45	11,5	83	12	7	**H712R4**	89,50	98,50	107,50
16	1	32	48	15	100	16	7	**H716R1**	148,00	160,00	160,00
16	1,5	32	48	15	100	16	7	**H716R15**	148,00	160,00	160,00
16	2	32	48	15	100	16	7	**H716R2**	148,00	160,00	160,00
16	3	32	48	15	100	16	7	**H716R3**	148,00	160,00	160,00
16	4	32	48	15	100	16	7	**H716R4**	148,00	160,00	160,00
16	5	32	48	15	100	16	7	**H716R5**	148,00	160,00	160,00
16	6	32	48	15	100	16	7	**H716R6**	148,00	160,00	160,00
20	1	40	50	19	110	20	7	**H720R1**	216,00	231,00	241,00
20	1,5	40	50	19	110	20	7	**H720R15**	216,00	231,00	241,00
20	2	40	50	19	110	20	7	**H720R2**	216,00	231,00	241,00
20	3	40	50	19	110	20	7	**H720R3**	216,00	231,00	241,00
20	4	40	50	19	110	20	7	**H720R4**	216,00	231,00	241,00
20	5	40	50	19	110	20	7	**H720R5**	216,00	231,00	241,00
20	6	40	50	19	110	20	7	**H720R6**	216,00	231,00	241,00

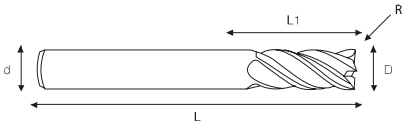
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

Frese Helicurve Z4 divisione irregolare 37°/40° toriche serie corta

Helicurve 4 flutes corner chamfer radius unequal helix short length end mills high performances

SERIES
H4S

NEW



Ultrafine Micro Grain

TYP N

D	R	L1	L	d	Z	Code	€ uncoated	€ TiAlN	€ Advanced
3	0,5	5	54	6	4	**H4S03R05**	30,00	34,50	38,00
4	0,5	7	54	6	4	**H4S04R05**	30,00	34,50	38,00
4	1	7	54	6	4	**H4S04R1**	30,00	34,50	38,00
5	0,5	8	54	6	4	**H4S05R05**	30,00	34,50	38,00
5	1	8	54	6	4	**H4S05R1**	30,00	34,50	38,00
6	0,5	9	54	6	4	**H4S06R05**	30,00	34,50	38,00
6	1	9	54	6	4	**H4S06R1**	30,00	34,50	38,00
8	0,5	12	60	8	4	**H4S08R05**	38,50	44,00	48,00
8	1	12	60	8	4	**H4S08R1**	38,50	44,00	48,00
8	1,5	12	60	8	4	**H4S08R15**	38,50	44,00	48,00
8	2	12	60	8	4	**H4S08R2**	38,50	44,00	48,00
8	3	12	60	8	4	**H4S08R3**	38,50	44,00	48,00
8	4	12	60	8	4	**H4S08R4**	38,50	44,00	48,00
10	1	15	66	10	4	**H4S10R1**	46,00	52,00	59,00
10	1,5	15	66	10	4	**H4S10R15**	46,00	52,00	59,00
10	2	15	66	10	4	**H4S10R2**	46,00	52,00	59,00
10	3	15	66	10	4	**H4S10R3**	46,00	52,00	59,00
10	4	15	66	10	4	**H4S10R4**	46,00	52,00	59,00
12	1	17	73	12	4	**H4S12R1**	70,00	76,00	84,00
12	1,5	17	73	12	4	**H4S12R15**	70,00	76,00	84,00
12	2	17	73	12	4	**H4S12R2**	70,00	76,00	84,00
12	3	17	73	12	4	**H4S12R3**	70,00	76,00	84,00
12	4	17	73	12	4	**H4S12R4**	70,00	76,00	84,00
16	1	21	82	16	4	**H4S16R1**	114,00	123,00	132,00
16	1,5	21	82	16	4	**H4S16R15**	114,00	123,00	132,00
16	2	21	82	16	4	**H4S16R2**	114,00	123,00	132,00
16	3	21	82	16	4	**H4S16R3**	114,00	123,00	132,00
16	4	21	82	16	4	**H4S16R4**	114,00	123,00	132,00
16	5	21	82	16	4	**H4S16R5**	114,00	123,00	132,00
16	6	21	82	16	4	**H4S16R6**	114,00	123,00	132,00
20	1	26	92	20	4	**H4S20R1**	175,00	188,00	198,00
20	1,5	26	92	20	4	**H4S20R15**	175,00	188,00	198,00
20	2	26	92	20	4	**H4S20R2**	175,00	188,00	198,00
20	3	26	92	20	4	**H4S20R3**	175,00	188,00	198,00
20	4	26	92	20	4	**H4S20R4**	175,00	188,00	198,00
20	5	26	92	20	4	**H4S20R5**	175,00	188,00	198,00
20	6	26	92	20	4	**H4S20R6**	175,00	188,00	198,00

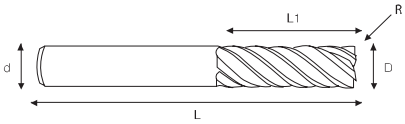
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

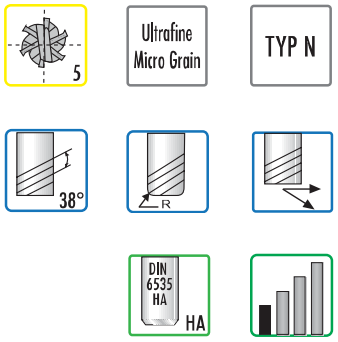
Frese Helicurve Z5 divisione irregolare 38° toriche serie corta

Helicurve 5 flutes corner chamfer radius unequal helix short length end mills high performances

SERIES
H5S

NEW





D	R	L1	L	d	Z	Code	€ uncoated	€ TiAlN	€ Advanced
3	0,5	5	54	6	5	**H5S03R05**	31,00	35,00	40,00
4	0,5	7	54	6	5	**H5S04R05**	31,00	35,00	40,00
4	1	7	54	6	5	**H5S04R1**	31,00	35,00	40,00
5	0,5	8	54	6	5	**H5S05R05**	31,00	35,00	40,00
5	1	8	54	6	5	**H5S05R1**	31,00	35,00	40,00
6	0,5	9	54	6	5	**H5S06R05**	35,00	39,00	41,50
6	1	9	54	6	5	**H5S06R1**	35,00	39,00	41,50
8	0,5	12	60	8	5	**H5S08R05**	42,00	48,00	52,00
8	1	12	60	8	5	**H5S08R1**	42,00	48,00	52,00
8	1,5	12	60	8	5	**H5S08R15**	42,00	48,00	52,00
8	2	12	60	8	5	**H5S08R2**	42,00	48,00	52,00
8	3	12	60	8	5	**H5S08R3**	42,00	48,00	52,00
8	4	12	60	8	5	**H5S08R4**	42,00	48,00	52,00
10	1	15	66	10	5	**H5S10R1**	52,00	58,50	62,50
10	1,5	15	66	10	5	**H5S10R15**	52,00	58,50	62,50
10	2	15	66	10	5	**H5S10R2**	52,00	58,50	62,50
10	3	15	66	10	5	**H5S10R3**	52,00	58,50	62,50
10	4	15	66	10	5	**H5S10R4**	52,00	58,50	62,50
12	1	17	73	12	5	**H5S12R1**	74,00	81,00	86,00
12	1,5	17	73	12	5	**H5S12R15**	74,00	81,00	86,00
12	2	17	73	12	5	**H5S12R2**	74,00	81,00	86,00
12	3	17	73	12	5	**H5S12R3**	74,00	81,00	86,00
12	4	17	73	12	5	**H5S12R4**	74,00	81,00	86,00
16	1	21	82	16	5	**H5S16R1**	121,00	130,00	135,00
16	1,5	21	82	16	5	**H5S16R15**	121,00	130,00	135,00
16	2	21	82	16	5	**H5S16R2**	121,00	130,00	135,00
16	3	21	82	16	5	**H5S16R3**	121,00	130,00	135,00
16	4	21	82	16	5	**H5S16R4**	121,00	130,00	135,00
16	5	21	82	16	5	**H5S16R5**	121,00	130,00	135,00
16	6	21	82	16	5	**H5S16R6**	121,00	130,00	135,00
20	1	26	92	20	5	**H5S20R1**	180,00	194,00	208,00
20	1,5	26	92	20	5	**H5S20R15**	180,00	194,00	208,00
20	2	26	92	20	5	**H5S20R2**	180,00	194,00	208,00
20	3	26	92	20	5	**H5S20R3**	180,00	194,00	208,00
20	4	26	92	20	5	**H5S20R4**	180,00	194,00	208,00
20	5	26	92	20	5	**H5S20R5**	180,00	194,00	208,00
20	6	26	92	20	5	**H5S20R6**	180,00	194,00	208,00

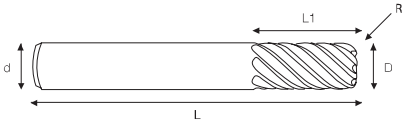
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

Frese Helicurve Z6 divisione irregolare 37°/40° toriche serie corta

Helicurve 6 flutes corner chamfer radius unequal helix short length end mills high performances

SERIES
H6S

NEW



Ultrafine Micro Grain

TYP N

D	R	L1	L	d	Z	Cod.	€ uncoated	€ TiAlN	€ Advanced
3	0,5	5	54	6	6	**H6S03R05**	32,00	38,00	43,00
4	0,5	7	54	6	6	**H6S04R05**	32,00	38,00	43,00
4	1	7	54	6	6	**H6S04R1**	32,00	38,00	43,00
5	0,5	8	54	6	6	**H6S05R05**	32,00	38,00	43,00
5	1	8	54	6	6	**H6S05R1**	32,00	38,00	43,00
6	0,5	9	54	6	6	**H6S06R05**	40,00	46,00	51,50
6	1	9	54	6	6	**H6S06R1**	40,00	46,00	51,50
8	0,5	12	60	8	6	**H6S08R05**	48,00	57,50	62,00
8	1	12	60	8	6	**H6S08R1**	48,00	57,50	62,00
8	1,5	12	60	8	6	**H6S08R15**	48,00	57,50	62,00
8	2	12	60	8	6	**H6S08R2**	48,00	57,50	62,00
8	3	12	60	8	6	**H6S08R3**	48,00	57,50	62,00
8	4	12	60	8	6	**H6S08R4**	48,00	57,50	62,00
10	1	15	66	10	6	**H6S10R1**	63,00	73,00	78,50
10	1,5	15	66	10	6	**H6S10R15**	63,00	73,00	78,50
10	2	15	66	10	6	**H6S10R2**	63,00	73,00	78,50
10	3	15	66	10	6	**H6S10R3**	63,00	73,00	78,50
10	4	15	66	10	6	**H6S10R4**	63,00	73,00	78,50
12	1	17	73	12	6	**H6S12R1**	82,00	92,00	100,50
12	1,5	17	73	12	6	**H6S12R15**	82,00	92,00	100,50
12	2	17	73	12	6	**H6S12R2**	82,00	92,00	100,50
12	3	17	73	12	6	**H6S12R3**	82,00	92,00	100,50
12	4	17	73	12	6	**H6S12R4**	82,00	92,00	100,50
16	1	21	82	16	6	**H6S16R1**	125,00	136,00	145,00
16	1,5	21	82	16	6	**H6S16R15**	125,00	136,00	145,00
16	2	21	82	16	6	**H6S16R2**	125,00	136,00	145,00
16	3	21	82	16	6	**H6S16R3**	125,00	136,00	145,00
16	4	21	82	16	6	**H6S16R4**	125,00	136,00	145,00
16	5	21	82	16	6	**H6S16R5**	125,00	136,00	145,00
16	6	21	82	16	6	**H6S16R6**	125,00	136,00	145,00
20	1	26	92	20	6	**H6S20R1**	185,00	198,00	212,00
20	1,5	26	92	20	6	**H6S20R15**	185,00	198,00	212,00
20	2	26	92	20	6	**H6S20R2**	185,00	198,00	212,00
20	3	26	92	20	6	**H6S20R3**	185,00	198,00	212,00
20	4	26	92	20	6	**H6S20R4**	185,00	198,00	212,00
20	5	26	92	20	6	**H6S20R5**	185,00	198,00	212,00
20	6	26	92	20	6	**H6S20R6**	185,00	198,00	212,00

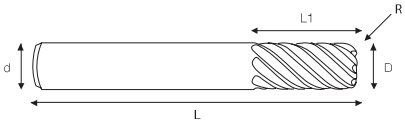
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

Frese Helicurve Z7 divisione irregolare 38° toriche serie corta

Helicurve 7 flutes corner chamfer radius unequal helix short length end mills high performances

SERIES
H7S

NEW



Ultrafine Micro Grain

TYP N

D	R	L1	L	d	Z	Code	€ uncoated	€ TiAlN	€ Advanced
3	0,5	5	54	6	7	**H7S03R05**	32,00	38,00	43,00
4	0,5	7	54	6	7	**H7S04R05**	32,00	38,00	43,00
4	1	7	54	6	7	**H7S04R1**	32,00	38,00	43,00
5	0,5	8	54	6	7	**H7S05R05**	32,00	38,00	43,00
5	1	8	54	6	7	**H7S05R1**	32,00	38,00	43,00
6	0,5	9	54	6	7	**H7S06R05**	40,00	46,00	51,50
6	1	9	54	6	7	**H7S06R1**	40,00	46,00	51,50
8	0,5	12	60	8	7	**H7S08R05**	48,00	57,50	62,00
8	1	12	60	8	7	**H7S08R1**	48,00	57,50	62,00
8	1,5	12	60	8	7	**H7S08R15**	48,00	57,50	62,00
8	2	12	60	8	7	**H7S08R2**	48,00	57,50	62,00
8	3	12	60	8	7	**H7S08R3**	48,00	57,50	62,00
8	4	12	60	8	7	**H7S08R4**	48,00	57,50	62,00
10	1	15	66	10	7	**H7S10R1**	63,00	73,00	78,50
10	1,5	15	66	10	7	**H7S10R15**	63,00	73,00	78,50
10	2	15	66	10	7	**H7S10R2**	63,00	73,00	78,50
10	3	15	66	10	7	**H7S10R3**	63,00	73,00	78,50
10	4	15	66	10	7	**H7S10R4**	63,00	73,00	78,50
12	1	17	73	12	7	**H7S12R1**	82,00	92,00	100,50
12	1,5	17	73	12	7	**H7S12R15**	82,00	92,00	100,50
12	2	17	73	12	7	**H7S12R2**	82,00	92,00	100,50
12	3	17	73	12	7	**H7S12R3**	82,00	92,00	100,50
12	4	17	73	12	7	**H7S12R4**	82,00	92,00	100,50
16	1	21	82	16	7	**H7S16R1**	125,00	136,00	145,00
16	1,5	21	82	16	7	**H7S16R15**	125,00	136,00	145,00
16	2	21	82	16	7	**H7S16R2**	125,00	136,00	145,00
16	3	21	82	16	7	**H7S16R3**	125,00	136,00	145,00
16	4	21	82	16	7	**H7S16R4**	125,00	136,00	145,00
16	5	21	82	16	7	**H7S16R5**	125,00	136,00	145,00
16	6	21	82	16	7	**H7S16R6**	125,00	136,00	145,00
20	1	26	92	20	7	**H7S20R1**	185,00	198,00	212,00
20	1,5	26	92	20	7	**H7S20R15**	185,00	198,00	212,00
20	2	26	92	20	7	**H7S20R2**	185,00	198,00	212,00
20	3	26	92	20	7	**H7S20R3**	185,00	198,00	212,00
20	4	26	92	20	7	**H7S20R4**	185,00	198,00	212,00
20	5	26	92	20	7	**H7S20R5**	185,00	198,00	212,00
20	6	26	92	20	7	**H7S20R6**	185,00	198,00	212,00

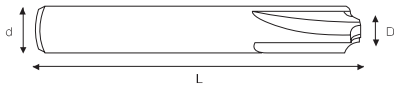
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	◑	●	○	○	●	●	◑	○

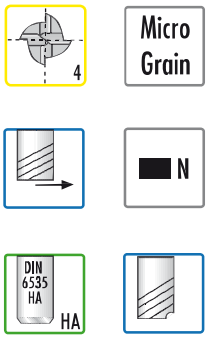
Frese di forma a quarto di cerchio concavo

Carbide quarter circle concave mill 4 edged milling cutter straight fluted

SERIES 38

NEW





D	R.	L	d	Z	Code	€ uncoated	€ TiAlN
3,2	0,4	50	4	4	**3832004**	24,00	28,00
5	0,5	58	6	4	**3805005**	29,00	32,50
4,8	0,6	58	6	4	**3848006**	29,00	32,50
4,4	0,8	58	6	4	**3844008**	29,00	32,50
4	1	58	6	4	**380401**	29,00	32,50
5	1,5	64	8	4	**3805015**	39,00	44,00
6	2	72	10	4	**380602**	54,00	59,00
5	2,5	72	10	4	**3805025**	54,00	59,00
6	3	74	12	4	**380603**	64,00	70,00
5	3,5	74	12	4	**3805035**	64,00	70,00
8	4	80	16	4	**380804**	82,00	88,00
7	4,5	80	16	4	**3807045**	82,00	88,00
6	5	80	16	4	**380605**	82,00	88,00
9	5,5	80	20	4	**3809055**	115,00	122,00
8	6	80	20	4	**380806**	115,00	122,00

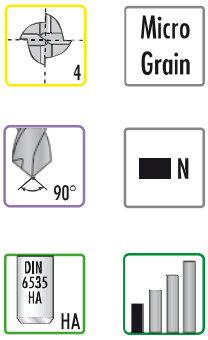
Using: for rounding off and for deburring edges

	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	●	●	◑	◑	◑	○	◑	◑

Frese per smussare

Chamfering carbide end mills

SERIES
53



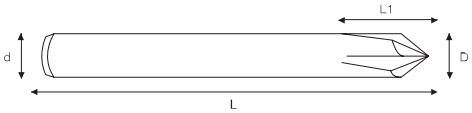
D h10	L1	L	d h6	Z	Code	€ uncoated	€ TiAlN	€ TopTiAlN
6	8	38	6	4	**534506**	10,80	15,40	16,20
8	11	43	8	4	**534508**	17,00	22,50	23,70
10	13	50	10	4	**534510**	24,00	30,80	32,40
12	15	60	12	4	**534512**	34,90	41,70	43,80

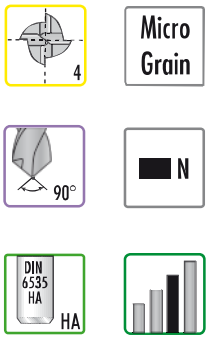
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	●	◑	●	◑	◑	○	◑	◑

Frese per smussare

Chamfering carbide long series end mills

SERIES
53L





D h10	L1	L	d h6	Z	Code	€ uncoated	€ TiAlN	€ TopTiAlN
6	8	60	6	4	**534506L**	13,60	18,20	19,10
8	11	70	8	4	**534508L**	22,30	27,80	29,20
10	13	75	10	4	**534510L**	31,00	37,70	39,60
12	15	75	12	4	**534512L**	40,90	47,60	50,00

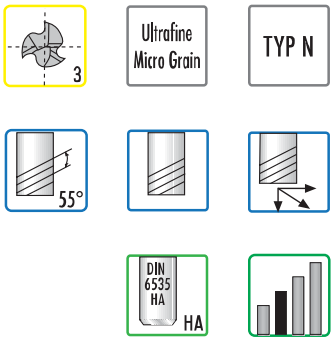
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	●	◑	●	◑	◑	○	◑	◑

Frese Z3 forte torsione 55°

Hi-helix 3 flutes 55° solide carbide end mills hard cut

SERIES
57

NEW



D	L1	L	d	Z	Code	€ uncoated	€ TopTiAlN	€ Advanced
3	4	50	6	3	**575503**	22,00	28,00	35,00
4	5	54	6	3	**575504**	24,80	28,50	35,50
5	6	54	6	3	**575505**	29,70	32,00	40,00
6	7	54	6	3	**575506**	30,20	32,50	40,50
8	9	58	8	3	**575508**	35,70	40,00	48,00
10	11	66	10	3	**575510**	49,80	55,00	64,00
12	12	73	12	3	**575512**	60,50	67,00	76,50
14	14	75	14	3	**575514**	77,50	84,30	94,30
16	16	82	16	3	**575516**	98,00	105,00	117,00
18	18	84	18	3	**575518**	125,00	134,00	147,00
20	20	92	20	3	**575520**	157,90	169,00	182,50

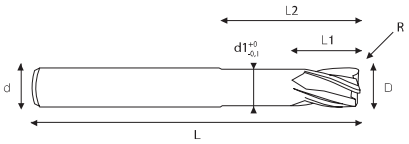
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	●	◑	○	○	○	○	●	○

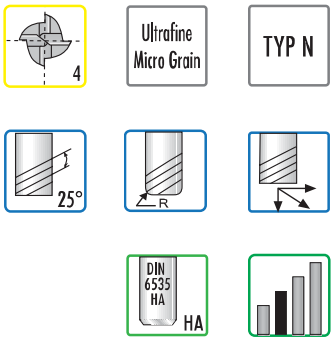
Frese Z4 toriche 25°

Solid carbide 4 flutes 25° corner radius end mills

SERIES 58

NEW





D	d1	L1	L2	L	d	R	Z	Code	€ uncoated	€ TopTiAlN	€ Advanced
3	2,8	4	9	57	6	0,5	4	**582503**	30,00	34,00	41,00
4	3,7	5	12	57	6	0,5	4	**582504**	30,00	34,00	41,00
5	4,6	6	15	57	6	0,5	4	**582505**	35,00	39,00	46,00
6	5,5	7	20	57	6	1	4	**582506**	35,00	39,00	46,00
8	7,4	9	26	63	8	1	4	**582508**	44,00	50,00	59,00
10	9,2	11	31	72	10	1,5	4	**582510**	57,50	64,00	73,50
12	11	12	37	83	12	1,5	4	**582512**	72,00	79,50	89,90
16	15	16	43	92	16	2	4	**582516**	112,00	122,00	134,00
20	19	20	53	104	20	2	4	**582520**	180,00	193,00	205,80
25	24	25	64	125	25	2,5	4	**582525**	288,00	308,00	331,00

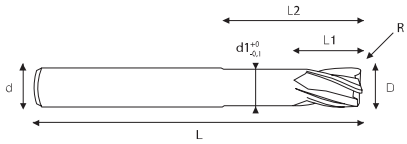
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	●	○	○	○	◑	◑	○	○

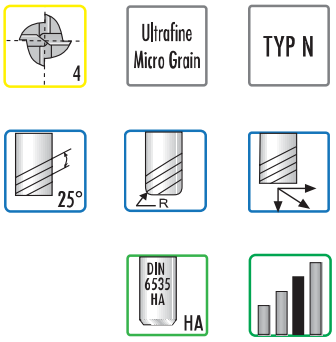
Frese Z4 toriche 25°

Solid carbide 4 flutes 25° corner radius long series end mills

SERIES
58L

NEW





D	d1	L1	L2	L	d	R	Z	Code	€ uncoated	€ TopTiAlN	€ Advanced
6	5,5	7	33	70	6	1	4	**582506L**	37,00	41,00	49,00
8	7,4	9	43	80	8	1	4	**582508L**	47,00	53,00	62,00
10	9,2	11	43	84	10	1,5	4	**582510L**	62,00	69,00	79,20
12	11	12	51	100	12	1,5	4	**582512L**	80,00	88,00	99,00
16	15	16	71	120	16	2	4	**582516L**	132,00	142,00	144,50
20	19	20	79	130	20	2	4	**582520L**	210,00	223,00	236,00
25	24	25	93	150	25	2,5	4	**582525L**	332,00	370,00	400,00

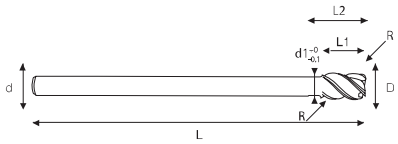
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	●	○	○	○	◑	◑	○	○

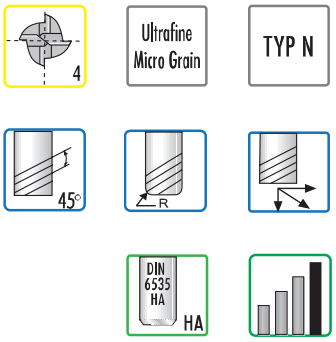
Frese Z4 toriche 45° gambo extralungo

Solid carbide 4 flutes corner radius extra long shank end mills

SERIES 59

NEW





D	d1	L1	L2	L	d	R	Z	Code	€ uncoated	€ TopTiAlN	€ Advanced
8	5,5	12	15	100	6	0,5	4	**594508**	67,00	73,00	81,00
10	7,5	15	20	130	8	1	4	**594510**	92,00	100,00	109,00
12	9,5	18	23	150	10	1	4	**594512**	122,00	133,00	142,50
14	11,5	21	26	160	12	1	4	**594514**	160,00	172,00	182,80
16	13,5	27	32	160	14	1	4	**594516**	187,50	200,00	212,00
20	17,5	33	38	200	18	1	4	**594520**	323,00	79,50	375,00

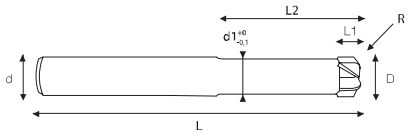
	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	●	○	○	○	◑	◑	○	○

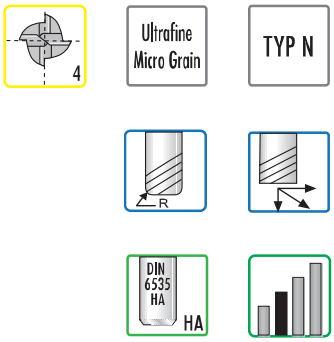
Frese Z4 toroidali

Solid carbide 4 flutes corner radius end mills

SERIES 60

NEW





D	d1	L1	L2	L	d	R	Z	Code	€ uncoated	€ TopTiAlN	€ Advanced
4	3,6	1,6	12	50	6	1	4	**600104**	30,00	34,00	42,00
6	5,4	2,5	21	57	6	1,5	4	**601506**	32,00	36,00	43,00
8	7,2	3,5	28	63	8	2	4	**600208**	41,00	46,00	53,80
10	9,2	4	35	72	10	2	4	**600210**	56,00	62,00	70,50
12	11	5	42	83	12	3	4	**600312**	76,00	85,00	94,50

	ACCIAI/STEEL	GHISA/CAST IRON	ACC.INOX/ STAINLESS STEEL	NON FERROSI/ NON FERROUS	LEGHE LEGGERE/ LIGHT ALLOYS	ACCIAI TEMPRATI < 50 HRC HARDENED STEELS < 50 HRC	ACCIAI TEMPRATI > 50 HRC HARDENED STEELS > 50 HRC	SUPER LEGHE-TITANIO SUPER ALLOYS-TITANIUM	GRAFITE / GRAPHITE
APPLICAZIONI CONSIGLIATE / RECOMMENDED APPLICATIONS	●	●	◑	○	○	●	●	◑	○