



CATALOGUE OUTILS COUPANTS

Alésage | Perçage | Fraisage | Ebavurage

FORETS CARBURE MONOBLOC

Drills - Brocas - Punte - Bohrer
(Solid carbide/MD/VHM)

FORETS CARBURE CLASSIQUES - Standard carbide drills

FOC500 Forets 2 lèvres DIN 1897 - Courts (5/100)

Drills 2 flutes DIN 1897 - Short length

Page 16

FOC538 Forets 2 lèvres DIN 338 - Longs (5/100)

Drills 2 flutes DIN 338 - Long length

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FOC513 Forets 3 lèvres - Courts (1/10)

Drills 3 flutes - Short length

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FORETS CARBURE LUB INTERNE - Internal cooling carbide drills

FOC130 Forets 2 lèvres DIN 6537 - Longueur 3D - Lub. interne

Drills 2 flutes DIN 6537 - Length 3 x Ø - Internal lubrication

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FOC150 Forets 2 lèvres DIN 6537 - Longueur 5D - Lub. interne

Drills 2 flutes DIN 6537 - Length 5 x Ø - Internal lubrication

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FOC180 Forets 2 lèvres DIN 6537 - Longueur 8D - Lub. interne

Drills 2 flutes DIN 6537 - Length 8 x Ø - Internal lubrication

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FOC115 Forets 2 lèvres DIN 6537 - Longueur 15D - Lub. interne

Drills 2 flutes DIN 6537 - Length 15 x Ø - Internal lubrication

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FOC113 Forets 3 lèvres - Longueur 3D - Lub. interne (1/10)

Drills 3 flutes - Length 3 x Ø - Internal lubrication

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FORETS A CENTRER CARBURE - Carbide center drills

FOC520 Forets à centrer 60° - 1 pointe - Courts

Center drills 60° - 1 tip - Short length

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FORETS A POINTER NC CARBURE - Carbide NC spotting drills

FOC509	Forets à pointer 90° - Courts <i>Spotting drills 90° - Short length</i>	Page 28
FOC590	Forets à pointer 90° - Longs <i>Spotting drills 90° - Long length</i>	Page 28
FOC510	Forets à pointer 100° - Courts <i>Spotting drills 100° - Short length</i>	Page 29
FOC591	Forets à pointer 100° - Longs <i>Spotting drills 100° - Long length</i>	Page 29
FOC512	Forets à pointer 120° - Courts <i>Spotting drills 120° - Short length</i>	Page 30
FOC592	Forets à pointer 120° - Longs <i>Spotting drills 120° - Long length</i>	Page 30
FOC514	Forets à pointer 140° - Courts <i>Spotting drills 140° - Short length</i>	Page 31
FOC594	Forets à pointer 140° - Longs <i>Spotting drills 140° - Long length</i>	Page 31

FOC 500

FORETS CARBURE MONOBLOC 2 LEVRES DIN 1897

Courts

Non-revêtus ou Revêtement pour matériaux trempés, collants et tendres



Solid carbide short drills - 2 flutes - Uncoated or Coating for steels and stainless steels



Brocas cortas MD integral - 2 labios - Sin o con Recubrimiento para aceros e inox



Punte corti MD integrale - 2 taglienti - Non rivestiti o Rivestimento per acciai ed acciai inossidabili



VHM kurze Spiralbohrer - 2 Schneiden - Unbeschichtet oder Beschichtung für Stähle und Edelstähle



SOLID
WC

DIN
1897

1/10
mm

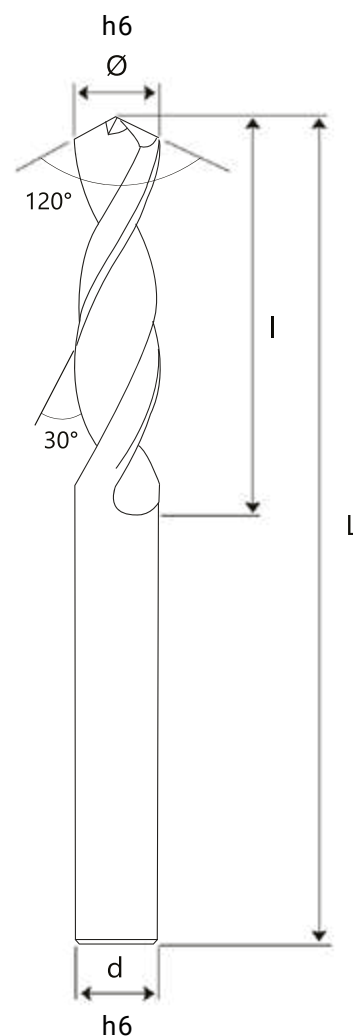
MACH 1

5/100
mm

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Ø	d	L	l	Z
0.7 → 1	d=Ø	26	6	2
1.1	d=Ø	28	7	2
1.2 & 1.3	d=Ø	30	8	2
1.4 & 1.5	d=Ø	32	9	2
1.6 & 1.7	d=Ø	34	10	2
1.8 & 1.9	d=Ø	36	11	2
2	d=Ø	38	12	2
2.1	d=Ø	38	12	2
2.2 & 2.3	d=Ø	40	13	2
2.4 & 2.5	d=Ø	43	14	2
2.6	d=Ø	43	14	2
2.7 → 2.9	d=Ø	46	16	2
3	d=Ø	46	16	2
3.1 → 3.3	d=Ø	49	18	2
3.4 & 3.5	d=Ø	52	20	2
3.6 & 3.7	d=Ø	52	20	2
3.8 → 4	d=Ø	55	22	2
4.1 & 4.2	d=Ø	55	22	2
4.3 → 4.5	d=Ø	58	24	2
4.6 & 4.7	d=Ø	58	24	2
4.8 → 5	d=Ø	62	26	2
5.1 → 5.3	d=Ø	62	26	2
5.4 → 6	d=Ø	66	28	2
6.1 → 6.5	d=Ø	70	31	2
6.6 & 6.7	d=Ø	70	31	2
6.8 & 6.9	d=Ø	74	34	2
7 → 7.5	d=Ø	74	34	2
7.6 → 8	d=Ø	79	37	2
8.1 → 8.5	d=Ø	79	37	2
8.6 → 9	d=Ø	84	40	2
9.1 → 9.5	d=Ø	84	40	2
9.6 → 10	d=Ø	89	43	2
10.1 → 10.6	d=Ø	89	43	2
10.7 → 11	d=Ø	95	47	2
11.1 → 11.8	d=Ø	95	47	2
11.9 & 12	d=Ø	102	51	2
12.1 → 13	d=Ø	102	51	2
14	d=Ø	111	56	2
14.5	d=Ø	111	56	2
15	d=Ø	115	58	2
16	d=Ø	115	58	2
17	d=Ø	119	60	2
18	d=Ø	123	62	2
20	d=Ø	131	66	2



Ex. ref. Ø0.70 = FOC500-000.700

FORETS CARBURE MONOBLOC 2 LEVRES DIN 1897 - 5/100 mm

Courts

Non-revêtus ou Revêtement pour matériaux trempés, collants et tendres



Solid carbide short drills - 2 flutes - Uncoated or Coating for steels and stainless steels



Brocas cortas MD integral - 2 labios - Sin o con Recubrimiento para aceros e inox



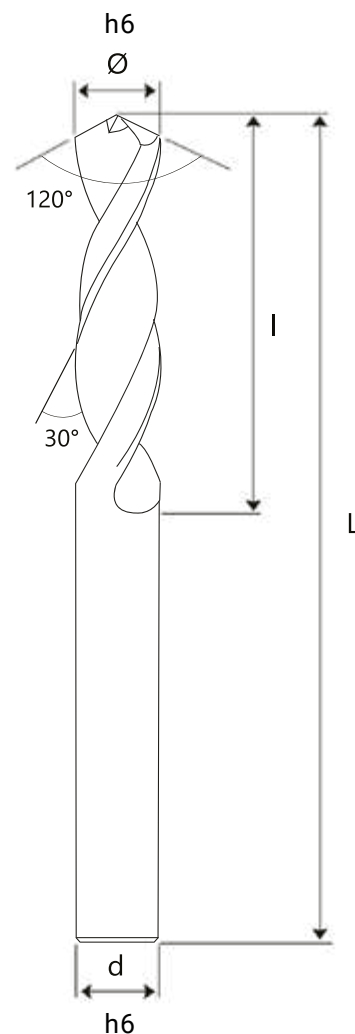
Punte corti MD integrale - 2 taglienti - Non rivestiti o Rivestimento per acciai ed acciai inossidabili



VHM kurze Spiralbohrer - 2 Schneiden - Unbeschichtet oder Beschichtung für Stähle und Edelstähle



Ø	d	L	l	Z
0.75 → 0.95	d=Ø	26	6	2
1.05	d=Ø	28	7	2
1.15 & 1.25	d=Ø	30	8	2
1.35 & 1.45	d=Ø	32	9	2
1.55 & 1.65	d=Ø	34	10	2
1.75 & 1.85	d=Ø	36	11	2
1.95 & 2.05	d=Ø	38	12	2
2.15 & 2.25	d=Ø	40	13	2
2.35 → 2.55	d=Ø	43	14	2
2.65 → 2.95	d=Ø	46	16	2
3.05 → 3.25	d=Ø	49	18	2
3.35 & 3.45	d=Ø	52	20	2
3.55 & 3.65	d=Ø	52	20	2
3.75 → 3.95	d=Ø	55	22	2
4.05 & 4.15	d=Ø	55	22	2
4.25 → 4.45	d=Ø	58	24	2
4.55 & 4.65	d=Ø	58	24	2
4.75 → 4.95	d=Ø	62	26	2
5.05 → 5.25	d=Ø	62	26	2
5.35 → 5.95	d=Ø	66	28	2
6.05 → 6.45	d=Ø	70	31	2
6.55 & 6.65	d=Ø	70	31	2
6.75 & 6.85	d=Ø	74	34	2
6.95 → 7.45	d=Ø	74	34	2
7.55 → 7.95	d=Ø	79	37	2
8.05 → 8.45	d=Ø	79	37	2
8.55 → 8.95	d=Ø	84	40	2
9.05 → 9.45	d=Ø	84	40	2
9.55 → 9.95	d=Ø	89	43	2
10.05 → 10.55	d=Ø	89	43	2
10.65 → 10.95	d=Ø	95	47	2
11.05 → 11.75	d=Ø	95	47	2
11.85 & 11.95	d=Ø	102	51	2
12.05 → 12.95	d=Ø	102	51	2



Ex. ref. Ø0.75 = FOC500-000.750



FOC 538

FORETS CARBURE MONOBLOC 2 LEVRES DIN 338

Longs

Non-revêtus ou Revêtement pour matériaux trempés, collants et tendres



Solid carbide long drills - 2 flutes - Uncoated or Coating for steels and stainless steels



Brocas largas MD integral - 2 labios - Sin o con Recubrimiento para aceros e inox



Punte lunghi MD integrale - 2 taglienti - Non rivestiti o Rivestimento per acciai ed acciai inossidabili



VHM lange Spiralbohrer - 2 Schneiden - Unbeschichtet oder Beschichtung für Stähle und Edelstähle



SOLID
WC

DIN
338

1/10
mm

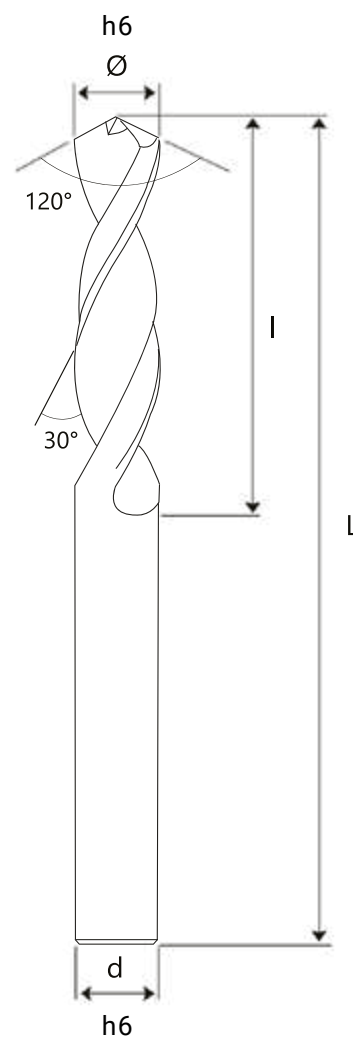
MACH 1

5/100
mm

Page 19



Ø	d	L	l	Z
0.7	d=Ø	28	9	2
0.8	d=Ø	30	10	2
0.9	d=Ø	32	11	2
1	d=Ø	34	12	2
1.1	d=Ø	36	14	2
1.2 & 1.3	d=Ø	38	16	2
1.4 & 1.5	d=Ø	40	18	2
1.6 & 1.7	d=Ø	43	20	2
1.8 & 1.9	d=Ø	46	22	2
2	d=Ø	49	24	2
2.1	d=Ø	49	24	2
2.2 & 2.3	d=Ø	53	27	2
2.4 & 2.5	d=Ø	57	30	2
2.6	d=Ø	57	30	2
2.7 → 2.9	d=Ø	61	33	2
3	d=Ø	61	33	2
3.1 → 3.3	d=Ø	65	36	2
3.4 & 3.5	d=Ø	70	39	2
3.6 & 3.7	d=Ø	70	39	2
3.8 & 3.9	d=Ø	75	43	2
4	d=Ø	75	43	2
4.1 & 4.2	d=Ø	75	43	2
4.3 → 4.5	d=Ø	80	47	2
4.6 & 4.7	d=Ø	80	47	2
4.8 & 4.9	d=Ø	86	52	2
5	d=Ø	86	52	2
5.1 → 5.3	d=Ø	86	52	2
5.4 & 5.5	d=Ø	93	57	2
5.6 & 5.7	d=Ø	93	57	2
5.8 & 5.9	d=Ø	93	57	2
6	d=Ø	93	57	2
6.1 → 6.5	d=Ø	101	63	2
6.6 & 6.7	d=Ø	101	63	2
6.8 & 6.9	d=Ø	109	69	2
7	d=Ø	109	69	2
7.1 → 7.5	d=Ø	109	69	2
7.6 → 7.9	d=Ø	117	75	2
8	d=Ø	117	75	2
8.1 → 8.5	d=Ø	117	75	2
8.6 → 8.9	d=Ø	125	81	2
9	d=Ø	125	81	2
9.1 → 9.5	d=Ø	125	81	2
9.6 → 9.9	d=Ø	133	87	2
10	d=Ø	133	87	2
10.1 → 10.6	d=Ø	133	87	2
10.7 → 11	d=Ø	142	94	2



Ø	d	L	l	Z
11.1 → 11.8	d=Ø	142	94	2
11.9 & 12	d=Ø	151	101	2
12.1 → 12.9	d=Ø	151	101	2
13	d=Ø	151	101	2
14	d=Ø	160	108	2
15	d=Ø	169	114	2
16	d=Ø	178	120	2
17	d=Ø	184	125	2
18	d=Ø	191	130	2
20	d=Ø	205	140	2

Ex. ref. Ø0.7 = FOC538-000.700



FORETS CARBURE MONOBLOC 2 LEVRES

DIN 338 - 5/100 mm

Longs

Non-revêtus ou Revêtement pour matériaux trempés, collants et tendres



Solid carbide long drills - 2 flutes - Uncoated or Coating for steels and stainless steels



Brocas largas MD integral - 2 labios - Sin o con Recubrimiento para aceros e inox



Punte lunghi MD integrale - 2 taglienti - Non rivestiti o Rivestimento per acciai ed acciai inossidabili

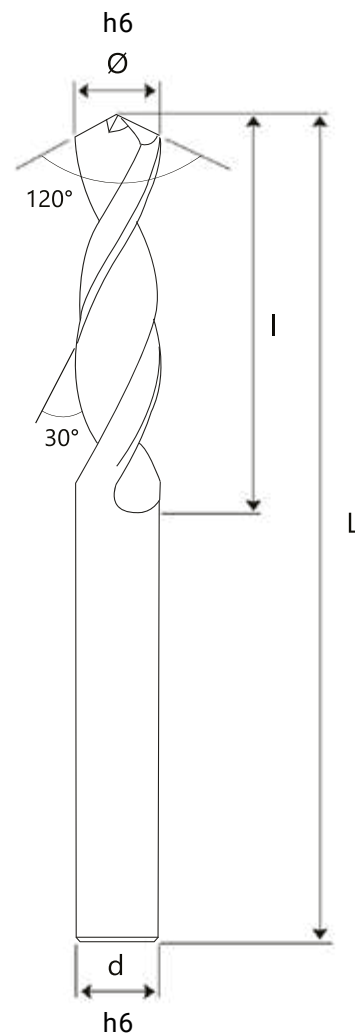


VHM lange Spiralbohrer - 2 Schneiden - Unbeschichtet oder Beschichtung für Stähle und Edelstähle



Ø	d	L	l	Z
0.75	d=Ø	30	10	2
0.85	d=Ø	32	11	2
0.95	d=Ø	34	12	2
1.05	d=Ø	36	14	2
1.15 & 1.25	d=Ø	38	16	2
1.35 & 1.45	d=Ø	40	18	2
1.55 & 1.65	d=Ø	43	20	2
1.75 & 1.85	d=Ø	46	22	2
1.95 & 2.05	d=Ø	49	24	2
2.15 & 2.25	d=Ø	53	27	2
2.35 & 2.45	d=Ø	57	30	2
2.55	d=Ø	57	30	2
2.65 → 2.95	d=Ø	61	33	2
3.05 → 3.25	d=Ø	65	36	2
3.35 & 3.45	d=Ø	70	39	2
3.55 & 3.65	d=Ø	70	39	2
3.75 & 3.85	d=Ø	75	43	2
3.95 → 4.15	d=Ø	75	43	2
4.25 → 4.45	d=Ø	80	47	2
4.55 & 4.65	d=Ø	80	47	2
4.75 & 4.85	d=Ø	86	52	2
4.95 → 5.25	d=Ø	86	52	2
5.35 & 5.45	d=Ø	93	57	2
5.55 → 5.95	d=Ø	93	57	2
6.05 → 6.45	d=Ø	101	63	2
6.55 & 6.65	d=Ø	101	63	2
6.75 → 7.45	d=Ø	109	69	2
7.55 → 8.45	d=Ø	117	75	2
8.55 → 9.45	d=Ø	125	81	2
9.55 → 10.55	d=Ø	133	87	2
10.65 → 11.75	d=Ø	142	94	2
11.85 → 12.95	d=Ø	151	101	2

Ex. ref. Ø0.75 = FOC538-000.750



FORETS CARBURE MONOBLOC 3 LEVRES SIMILAIRES DIN 6539

Courts

Non-revêtus ou Revêtement pour matériaux trempés, collants et tendres



Solid carbide short drills - 3 flutes - Uncoated or Coating for steels and stainless steels



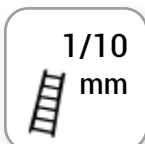
Brocas cortas MD integral - 3 labios - Sin o con Recubrimiento para aceros e inox



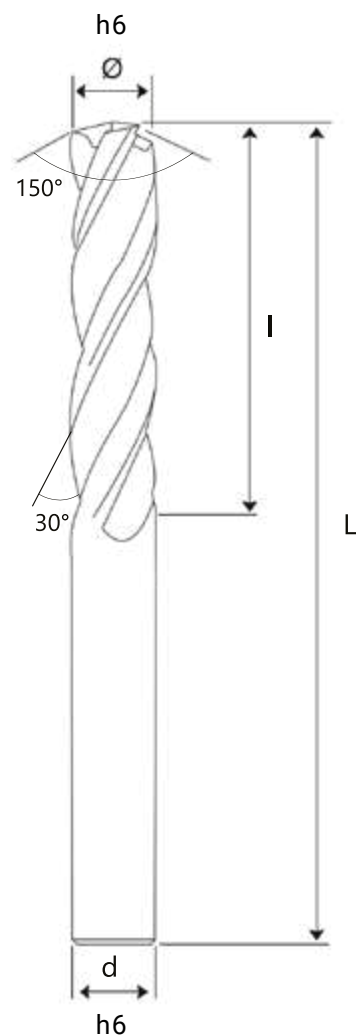
Punte corti MD integrale - 3 taglienti - Non rivestiti o Rivestimento per acciai ed acciai inossidabili



VHM kurze Spiralbohrer - 3 Schneiden - Unbeschichtet oder Beschichtung für Stähle und Edelstähle



Ø	d	L	l	Z
3	d=Ø	46	22	3
3.1 → 3.3	d=Ø	49	24	3
3.4 → 3.7	d=Ø	52	27	3
3.8 & 3.9	d=Ø	55	30	3
4	d=Ø	55	30	3
4.1 & 4.2	d=Ø	55	30	3
4.3 → 4.7	d=Ø	58	32	3
4.8 & 4.9	d=Ø	62	35	3
5	d=Ø	62	35	3
5.1 → 5.3	d=Ø	62	35	3
5.4 → 5.9	d=Ø	66	39	3
6	d=Ø	66	39	3
6.1 → 6.7	d=Ø	70	42	3
6.8 & 6.9	d=Ø	74	45	3
7	d=Ø	74	45	3
7.1 → 7.5	d=Ø	74	45	3
7.6 → 7.9	d=Ø	79	48	3
8	d=Ø	79	48	3
8.1 → 8.5	d=Ø	79	48	3
8.6 → 8.9	d=Ø	84	52	3
9	d=Ø	84	52	3
9.1 → 9.5	d=Ø	84	52	3
9.6 → 9.9	d=Ø	89	55	3
10	d=Ø	89	55	3
10.1 → 10.6	d=Ø	89	55	3
10.7 → 10.9	d=Ø	95	60	3
11	d=Ø	95	60	3
11.1 → 11.8	d=Ø	95	60	3
11.9 & 12	d=Ø	102	65	3
12.1 → 12.9	d=Ø	102	65	3
13	d=Ø	102	65	3
14	d=Ø	107	66	3
15	d=Ø	111	70	3
16	d=Ø	115	73	3
17	d=Ø	123	73	3
18	d=Ø	123	73	3
20	d=Ø	131	79	3



Ex. ref. Ø3.1 = FOC513-003.100

FOC 130

FORETS CARBURE MONOBLOC 2 LEVRES DIN 6537

Longueur 3D - **Lubrification interne**

Non-revêtus ou Revêtement pour matériaux trempés, collants et tendres



Solid carbide drills 3xØ - 2 flutes - Internal cooling - Uncoated or Coating for steels and stainless steels



Brocas MD integral 3xØ - 2 labios - Refrigeración interna - Sin o con Recubrimiento para aceros e inox



Punte MD integrale 3xØ - 2 taglienti - Refrig. interna - Non rivestiti o Rivestimento per acciai ed acciai inossidabili



VHM Spiralbohrer 3xØ - 2 Schneiden - Mit Innenkühlung - Unbeschichtet oder Beschichtung für Stähle und Edelstähle



SOLID
WC

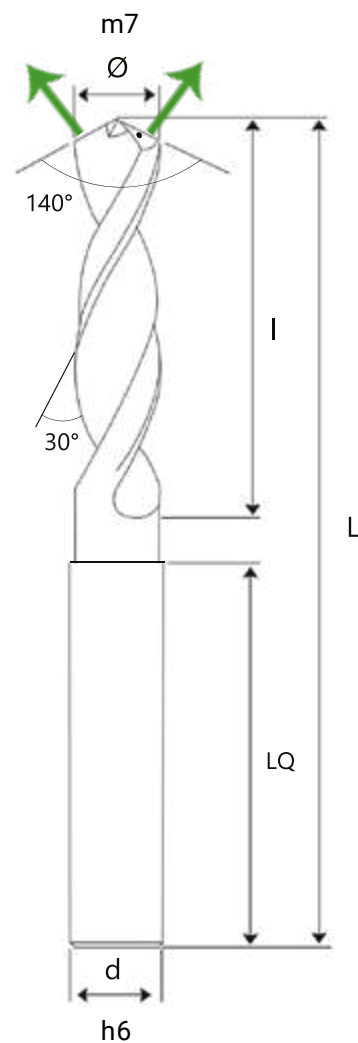
DIN
6537



MACH 1

Ø	d	L	I	LQ	Z
3	6	62	20	36	2
3.1 → 3.7	6	62	20	36	2
3.8 & 3.9	6	66	24	36	2
4	6	66	24	36	2
4.1 → 4.7	6	66	24	36	2
4.8 & 4.9	6	66	28	36	2
5	6	66	28	36	2
5.1 → 5.9	6	66	28	36	2
6	6	66	28	36	2
6.1 → 6.9	8	79	34	36	2
7	8	79	34	36	2
7.1 → 7.9	8	79	41	36	2
8	8	79	41	36	2
8.1 → 8.9	10	89	47	40	2
9	10	89	47	40	2
9.1 → 9.9	10	89	47	40	2
10	10	89	47	40	2
10.1 → 10.9	12	102	55	45	2
11	12	102	55	45	2
11.1 → 11.9	12	102	55	45	2
12	12	102	55	45	2
12.1 → 12.9	14	107	60	45	2
13	14	107	60	45	2
14	14	107	60	45	2
15	16	115	65	48	2
16	16	115	65	48	2
17	18	123	73	48	2
18	18	123	73	48	2
20	20	131	79	50	2

Ex. ref. Ø3.1 = FOC130-003.100



FORETS CARBURE MONOBLOC 2 LEVRES DIN 6537

Longueur 5D - **Lubrification interne**

Non-revêtus ou Revêtement pour matériaux trempés, collants et tendres



Solid carbide drills 5xØ - 2 flutes - Internal cooling - Uncoated or Coating for steels and stainless steels



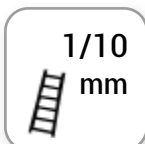
Brocas MD integral 5xØ - 2 labios - Refrigeración interna - Sin o con Recubrimiento para aceros e inox



Punte MD integrale 5xØ - 2 taglienti - Refrig. interna - Non rivestiti o Rivestimento per acciai ed acciai inossidabili

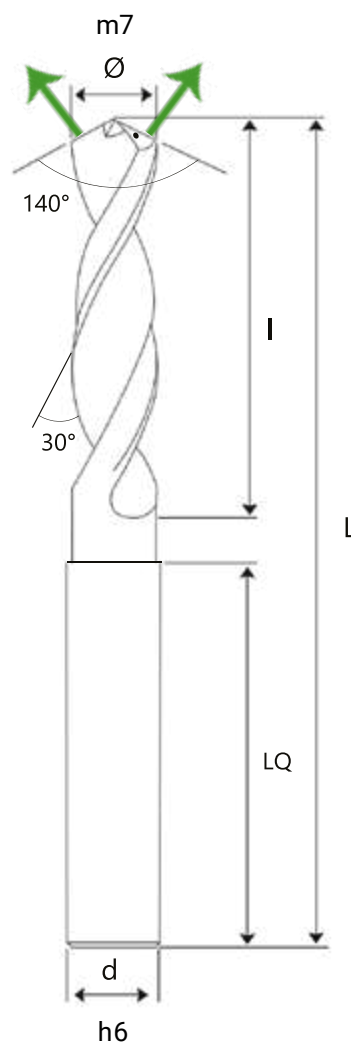


VHM Spiralbohrer 5xØ - 2 Schneiden - Mit Innenkühlung - Unbeschichtet oder Beschichtung für Stähle und Edelstähle



Ø	d	L	I	LQ	Z
3	6	66	28	36	2
3.1 → 3.7	6	66	28	36	2
3.8 & 3.9	6	74	36	36	2
4	6	74	36	36	2
4.1 → 4.7	6	74	36	36	2
4.8 & 4.9	6	82	44	36	2
5	6	82	44	36	2
5.1 → 5.9	6	82	44	36	2
6	6	82	44	36	2
6.1 → 6.9	8	91	53	36	2
7	8	91	53	36	2
7.1 → 7.9	8	91	53	36	2
8	8	91	53	36	2
8.1 → 8.9	10	103	61	40	2
9	10	103	61	40	2
9.1 → 9.9	10	103	61	40	2
10	10	103	61	40	2
10.1 → 10.9	12	118	71	45	2
11	12	118	71	45	2
11.1 → 11.9	12	118	71	45	2
12	12	118	71	45	2
12.1 → 12.9	14	124	77	45	2
13	14	124	77	45	2
14	14	124	77	45	2
15	16	133	83	48	2
16	16	133	83	48	2
17	18	143	93	48	2
18	18	143	93	48	2
20	20	153	101	50	2

Ex. ref. Ø3.1 = FOC150-003.100



FOC 180

FORETS CARBURE MONOBLOC 2 LEVRES DIN 6537

Longueur 8D - **Lubrification interne**

Non-revêtus ou Revêtement pour matériaux trempés, collants et tendres



Solid carbide drills 8xØ - 2 flutes - Internal cooling - Uncoated or Coating for steels and stainless steels



Brocas MD integral 8xØ - 2 labios - Refrigeración interna - Sin o con Recubrimiento para aceros e inox



Punte MD integrale 8xØ - 2 taglienti - Refrig. interna - Non rivestiti o Rivestimento per acciai ed acciai inossidabili



VHM Spiralbohrer 8xØ - 2 Schneiden - Mit Innenkühlung - Unbeschichtet oder Beschichtung für Stähle und Edelstähle



SOLID
WC

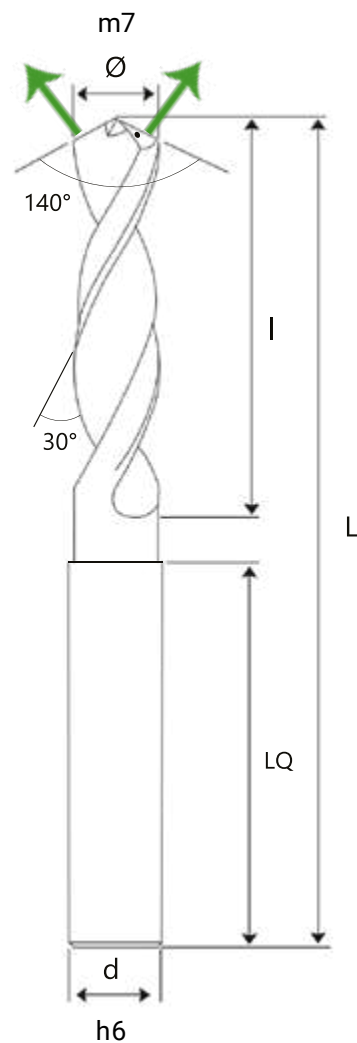
DIN
6537



MACH 1

Ø	d	L	I	LQ	Z
3	6	72	34	36	2
3.1 → 3.7	6	72	34	36	2
3.8 & 3.9	6	81	43	36	2
4	6	81	43	36	2
4.1 → 4.7	6	81	43	36	2
4.8 & 4.9	6	95	57	36	2
5	6	95	57	36	2
5.1 → 5.9	6	95	57	36	2
6	6	95	57	36	2
6.1 → 6.9	8	114	76	36	2
7	8	114	76	36	2
7.1 → 7.9	8	114	76	36	2
8	8	114	76	36	2
8.1 → 8.9	10	142	95	40	2
9	10	142	95	40	2
9.1 → 9.9	10	142	95	40	2
10	10	142	95	40	2
10.1 → 10.9	12	162	114	45	2
11	12	162	114	45	2
11.1 → 11.9	12	162	114	45	2
12	12	162	114	45	2
12.1 → 12.9	14	178	133	45	2
13	14	178	133	45	2
14	14	178	133	45	2
15	16	203	152	48	2
16	16	203	152	48	2
17	18	222	171	48	2
18	18	222	171	48	2
20	20	243	190	50	2

Ex. ref. Ø3.1 = FOC180-003.100



FORETS CARBURE MONOBLOC 2 LEVRES DIN 6537

Longueur 15D - **Lubrification interne**

Non-revêtus ou Revêtement pour matériaux trempés, collants et tendres



Solid carbide drills 15xØ - 2 flutes - Internal cooling - Uncoated or Coating for steels and stainless steels



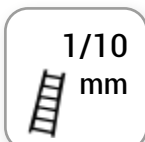
Brocas MD integral 15xØ - 2 labios - Refrigeración interna - Sin o con Recubrimiento para aceros e inox



Punte MD integrale 15xØ - 2 taglienti - Refrig. interna - Non rivestiti o Rivestimento per acciai ed acciai inossidabili

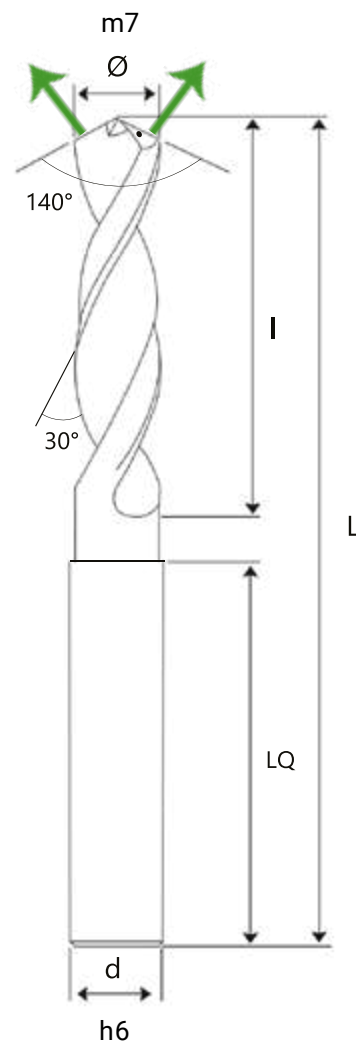


VHM Spiralbohrer 15xØ - 2 Schneiden - Mit Innenkühlung - Unbeschichtet oder Beschichtung für Stähle und Edelstähle



Ø	d	L	I	LQ	Z
3	6	95	55	36	2
3.1 → 3.7	6	104	64	36	2
3.8 & 3.9	6	104	64	36	2
4	6	104	64	36	2
4.1 → 4.7	6	131	91	36	2
4.8 & 4.9	6	131	91	36	2
5	6	131	91	36	2
5.1 → 5.9	6	149	109	36	2
6	6	149	109	36	2
6.1 → 6.9	8	167	127	36	2
7	8	167	127	36	2
7.1 → 7.9	8	185	145	36	2
8	8	185	145	36	2
8.1 → 8.9	10	207	163	40	2
9	10	207	163	40	2
9.1 → 9.9	10	226	182	40	2
10	10	226	182	40	2
10.1 → 10.9	12	249	200	45	2
11	12	249	200	45	2
11.1 → 11.9	12	267	218	45	2
12	12	267	218	45	2
12.1 → 12.9	14	285	236	45	2
13	14	285	236	45	2
14	14	303	254	45	2

Ex. ref. Ø3.1 = FOC115-003.100



FOC 113

FORETS CARBURE MONOBLOC 3 LEVRES SIMILAIRES DIN 6539

Longueur 3D - **Lubrification interne**

Non-revêtus ou Revêtement pour matériaux trempés, collants et tendres



Solid carbide drills 3xØ - 3 flutes - Internal cooling - Uncoated or coated



Brocas MD integral 3xØ - 3 labios - Refrigeración interna - Sin o con recubrimiento



Punte MD integrale 3xØ - 3 taglienti - Refrigerazione interna - Non rivestiti o rivestiti



VHM Spiralbohrer 3xØ - 3 Schneiden - Mit Innenkühlung - Unbeschichtet oder beschichtet



**SOLID
WC**

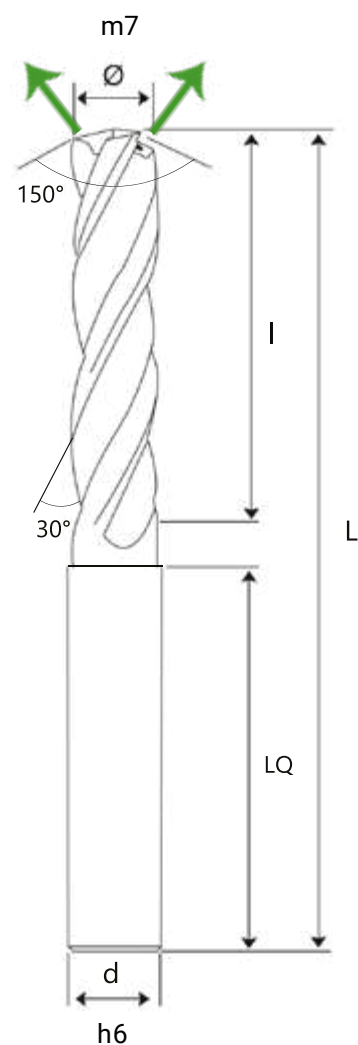
**DIN
6539**



MACH 1

Ø	d	L	I	LQ	Z
3	6	62	20	36	3
3.1 → 3.7	6	62	20	36	3
3.8 & 3.9	6	66	24	36	3
4	6	66	24	36	3
4.1 → 4.7	6	66	24	36	3
4.8 & 4.9	6	66	28	36	3
5	6	66	28	36	3
5.1 → 5.9	6	66	28	36	3
6	6	66	28	36	3
6.1 → 6.9	8	79	34	36	3
7	8	79	34	36	3
7.1 → 7.9	8	79	41	36	3
8	8	79	41	36	3
8.1 → 8.9	10	89	47	40	3
9	10	89	47	40	3
9.1 → 9.9	10	89	47	40	3
10	10	89	47	40	3
10.1 → 10.9	12	102	55	45	3
11	12	102	55	45	3
11.1 → 11.9	12	102	55	45	3
12	12	102	55	45	3
12.1 → 12.9	14	107	60	45	3
13	14	107	60	45	3
14	14	107	60	45	3
15	16	115	65	48	3
16	16	115	65	48	3
17	18	123	73	48	3
18	18	123	73	48	3
20	20	131	79	50	3

Ex. ref. Ø3.1 = FOC113-003.100





FORETS A CENTRER CARBURE MONOBLOC 60° DIN 333-A

Courts - 1 pointe
Non-revêtus



Solid carbide short center drills 60° - Single end - Uncoated



Brocas de centrar cortas MD integral 60° - Extremo único - Sin recubrimiento



Punte a centrare corti MD integrale 60° - Unica estremità - Non rivestiti

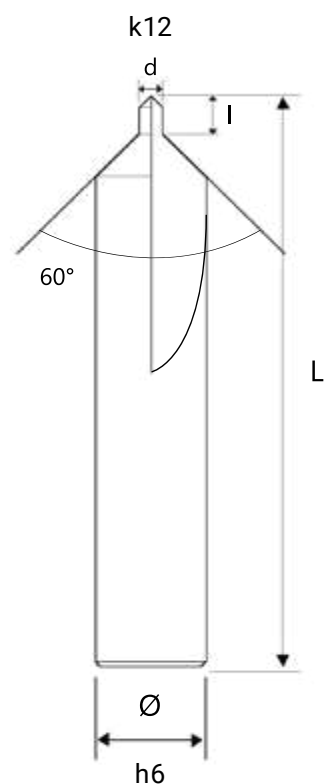


VHM kurze Zentrierbohrer 60° - 1 Ende - Unbeschichtet



Ø	d	L	l min	l max
4	1	50	1.3	1.7
4	1.6	50	2	2.6
5	1.5	50	2	2.6
5	2	50	2.5	3.1
6	2	50	2.5	3.1
6.3	2.5	50	3.1	3.8
8	2.5	60	3.1	3.8
8	3	60	3.9	4.6
8	3.15	60	3.9	4.6
10	3	66	3.9	4.6
10	4	66	5	5.9
12	4	73	5	5.9
12	5	73	6.3	7.2

Ex. ref. Ø4 x 1 = FOC520-04.00*01.00



FOC
509
590

FORETS A POINTER NC CARBURE MONOBLOC 90° 2 LEVRES

Courts ou longs



Solid carbide *short or long* NC spotting drills 90° - Uncoated



Brocas de puntear *cortas o largas* MD integral 90° - Sin recubrimiento



Punte a centrare NC *corti o lunghi* MD integrale 90° - Non rivestiti



VHM *kurze oder lange* Anbohrer 90° - Unbeschichtet



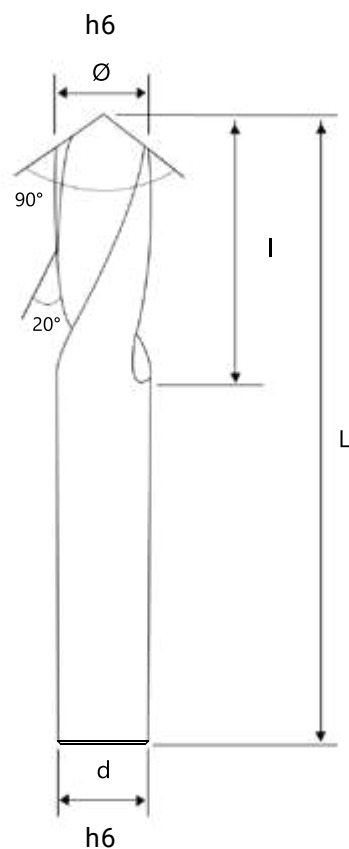
SOLID
WC

Ø	d	L	I	Z
2	2	40	8	2
3	3	45	10	2
4	4	50	12	2
5	5	50	15	2
6	6	60	18	2
7	7	60	23	2
8	8	60	23	2
10	10	70	24	2
12	12	70	24	2
14	14	75	24	2
16	16	80	26	2
20	20	100	35	2

Ex. ref. Ø2 = FOC509-002.000

Ø	d	L	I	Z
2	2	80	8	2
3	3	100	10	2
4	4	100	12	2
5	5	100	15	2
6	6	100	18	2
7	7	120	23	2
8	8	120	23	2
10	10	150	24	2
12	12	150	24	2
14	14	160	24	2
16	16	160	26	2
20	20	170	35	2

Ex. ref. Ø2 = FOC590-002.000



FOC
510
591

FORETS A POINTER NC CARBURE MONOBLOC 100° 2 LEVRES

Courts ou longs



Solid carbide *short or long* NC spotting drills 100° - Uncoated



Brocas de puntear *cortas o largas* MD integral 100° - Sin recubrimiento



Punte a centrare NC *corti o lunghi* MD integrale 100° - Non rivestiti



VHM *kurze oder lange* Anbohrer 100° - Unbeschichtet



EUROMAC



MADE IN
FRANCE

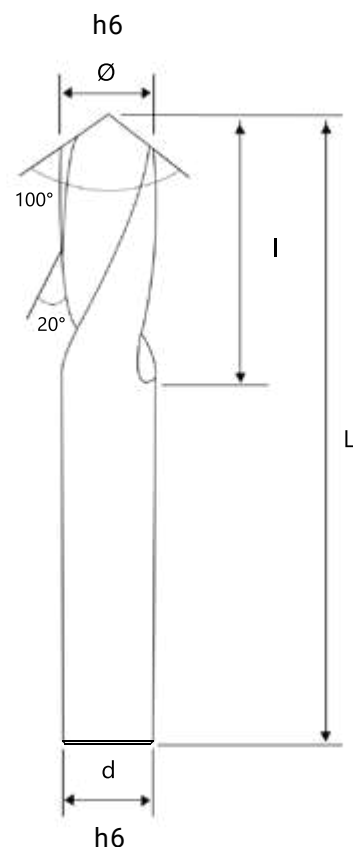
SOLID
WC

Ø	d	L	l	Z
2	2	40	8	2
3	3	45	10	2
4	4	50	12	2
5	5	50	15	2
6	6	60	18	2
7	7	60	23	2
8	8	60	23	2
10	10	70	24	2
12	12	70	24	2
14	14	75	24	2
16	16	80	26	2
20	20	100	35	2

Ex. ref. Ø2 = FOC510-002.000

Ø	d	L	l	Z
2	2	80	8	2
3	3	100	10	2
4	4	100	12	2
5	5	100	15	2
6	6	100	18	2
7	7	120	23	2
8	8	120	23	2
10	10	150	24	2
12	12	150	24	2
14	14	160	24	2
16	16	160	26	2
20	20	170	35	2

Ex. ref. Ø2 = FOC591-002.000



FOC

ALC

FRC

EVC

EBC

COF

info

FOC
512
592

FORETS A POINTER NC CARBURE MONOBLOC 120° 2 LEVRES

Courts ou longs



Solid carbide *short or long* NC spotting drills 120° - Uncoated



Brocas de puntear *cortas o largas* MD integral 120° - Sin recubrimiento



Punte a centrare NC *corti o lunghi* MD integrale 120° - Non rivestiti



VHM *kurze oder lange* Anbohrer 120° - Unbeschichtet



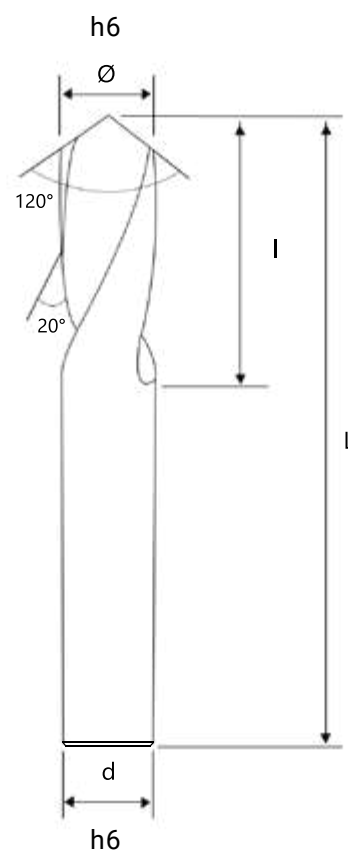
SOLID
WC

Ø	d	L	l	Z
2	2	40	8	2
3	3	45	10	2
4	4	50	12	2
5	5	50	15	2
6	6	60	18	2
7	7	60	23	2
8	8	60	23	2
10	10	70	24	2
12	12	70	24	2
14	14	75	24	2
16	16	80	26	2
20	20	100	35	2

Ex. ref. Ø2 = FOC512-002.000

Ø	d	L	l	Z
2	2	80	8	2
3	3	100	10	2
4	4	100	12	2
5	5	100	15	2
6	6	100	18	2
7	7	120	23	2
8	8	120	23	2
10	10	150	24	2
12	12	150	24	2
14	14	160	24	2
16	16	160	26	2
20	20	170	35	2

Ex. ref. Ø2 = FOC592-002.000



FOC
514
594

FORETS A POINTER NC CARBURE MONOBLOC 140° 2 LEVRES

Courts ou longs



Solid carbide *short or long* NC spotting drills 140° - Uncoated



Brocas de puntear *cortas o largas* MD integral 140° - Sin recubrimiento



Punte a centrare NC *corti o lunghi* MD integrale 140° - Non rivestiti



VHM *kurze oder lange* Anbohrer 140° - Unbeschichtet



EUROMAC



MADE IN
FRANCE

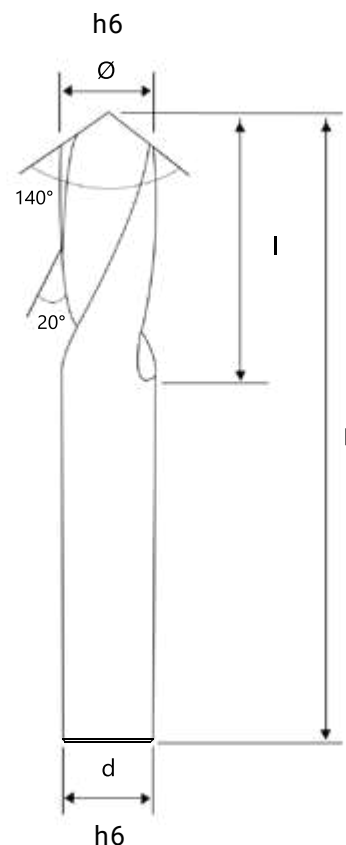
SOLID
WC

Ø	d	L	l	Z
2	2	40	8	2
3	3	45	10	2
4	4	50	12	2
5	5	50	15	2
6	6	60	18	2
7	7	60	23	2
8	8	60	23	2
10	10	70	24	2
12	12	70	24	2
14	14	75	24	2
16	16	80	26	2
20	20	100	35	2

Ex. ref. Ø2 = FOC514-002.000

Ø	d	L	l	Z
2	2	80	8	2
3	3	100	10	2
4	4	100	12	2
5	5	100	15	2
6	6	100	18	2
7	7	120	23	2
8	8	120	23	2
10	10	150	24	2
12	12	150	24	2
14	14	160	24	2
16	16	160	26	2
20	20	170	35	2

Ex. ref. Ø2 = FOC594-002.000



FOC

ALC

FRC

EVC

EBC

COF

info

ALESOIRS CARBURE MONOBLOC

Reamers - Escariadores - Alesatori - Reibahlen (Solid carbide/MD/VHM)

REDRESSEURS - Rectifiers before reaming

RDC730 Redresseurs avant passage de l'alesoir - Courts (1/10)

Rectifiers before reaming - Short length

Page 34



ALESOIRS POUR TROUS BORGNES - Reamers for blind holes

ALC720 Alésoirs machine taille droite - Extra courts (1/100)

Machine reamers straight flutes - Extra short length

NEW

Page 166

ALC750 Alésoirs machine taille droite - Courts (5/1000)

Machine reamers straight flutes - Short length

Page 38

ALC775 Alésoirs machine taille droite - Longs (1/100)

Machine reamers straight flutes - Long length

Page 41

ALC100 Alésoirs machine taille droite - Extra courts - Lub centrale (1/100)

Machine reamers straight flutes - Extra sort length - Central lubrication

NEW

Page 167

ALC114 Alésoirs machine taille droite - Courts - Lub centrale (1/100)

Machine reamers straight flutes - Short length - Central lubrication

Page 50

ALC124 Alésoirs machine taille droite 90° - Courts - Lub centrale (1/100)

Machine reamers straight flutes 90° - Short length - Central lubrication

Page 51

ALC154 Alésoirs machine taille droite - Courts - Lub latérale (5/1000)

Machine reamers straight flutes - Short length - Lateral lubrication

Page 46

ALC175 Alésoirs machine taille droite - Longs - Lub latérale (1/100)

Machine reamers straight flutes - Long length - Lateral lubrication

Page 49

ALESOIRS POUR TROUS DEBOUCHANTS - Reamers for through holes

ALC212	Micro-alésoirs machine hélice à gauche - DIN 212 (1/100) <i>Solid carbide machine micro-reamers - DIN 212 - Shape B - Scale 1/100 mm</i>	NEW Page 164
ALC710	Alésoirs machine hélice à gauche - Extra courts (1/100) <i>Machine reamers left hand helix - Extra short length</i>	NEW Page 165
ALC740	Alésoirs machine hélice à gauche - Courts (5/1000) <i>Machine reamers left hand helix - Short length</i>	Page 36
ALC742	Alésoirs machine hélice à gauche - DIN 212 (5/1000) <i>Machine reamers left hand helix - DIN 212</i>	Page 35
ALC774	Alésoirs machine hélice à gauche - Longs (1/100) <i>Machine reamers left hand helix - Long length</i>	Page 40
ALC144	Alésoirs machine hélice à gauche - Courts - Lub latérale (5/1000) <i>Machine reamers left hand helix - Short length - Lateral lubrication</i>	Page 44
ALC174	Alésoirs machine hélice à gauche - Longs - Lub latérale (1/100) <i>Machine reamers left hand helix - Long length - Lateral lubrication</i>	Page 48

ALESOIRS A MAIN - Hand reamers

ALC780	Alésoirs à main américains hélice à gauche pour voilure (1/100) <i>Hand reamers left hand helix for aircraft wings</i>	Page 52
ALC790	Alésoirs à main façon Paris (5/10) <i>Hand reamers « Paris type »</i>	Page 53

FOC
ALC
ALC
700
770

ALESOIRS MACHINE CARBURE MONOBLOC TOLERANCE H7

Série courte et longue

REEMPLACEMENT DES REFERENCES ALC700 ET ALC770

Voir ref. ALC740 et ALC774 à la place.

En effet, les diamètres en H7 correspondent tous à l'une des cotes de nos références standards ALC740 et ALC774. Pour vous aider à identifier le diamètre d'alesoir dont vous avez besoin, vous pouvez utiliser au choix :

- Le tableau de tolérances présent aux pages 154 et 155 de ce catalogue, en faisant le calcul par vous-mêmes ;
- Notre application dédiée aux calculs automatiques des tolérances (le Toléranceur™), téléchargeable gratuitement sur notre site web ;
- En nous contactant par téléphone ou par email directement.

Standard ref. ALC700 and ALC770 (H7 tolerance) do not exist anymore.

Please see ref. ALC740 et ALC774 instead. Indeed, the tolerance H7 matches with our standard diameters by 5 microns. In order to find the standard reamer diameter you need, you can :

- *Use the Tolerance Table on pages 154-155 of this catalogue and calculate by yourself ;*
- *Use our Excel app to calculate automatically (the Toléranceur™), downloadable on our website ;*
- *Contact us directly by email.*

Calculez automatiquement grâce à notre application Excel gratuite : le **Toléranceur™** !

Use our free Excel app «Toléranceur™» to calculate automatically !





ALESOIRS CARBURE MONOBLOC EXTRA COURTS DIN 8089 POUR MACHINES AUTOMATIQUES

Hélice à gauche pour trous débouchants (forme B)
Queue cylindrique



Solid carbide extra short machine reamers DIN 8089 - Left hand helix for through holes



Escariadores extra cortos MD integral DIN 8089 - Hélice a izquierda para agujeros pasantes



Alesatori extra corti MD integrale DIN 8089 - Spirale sinistra per fori passanti

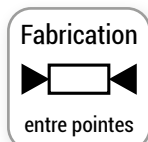


VHM extra kurze Maschinenreibahlen DIN 8089 - Linksspiralgenutet für Durchgangsloch

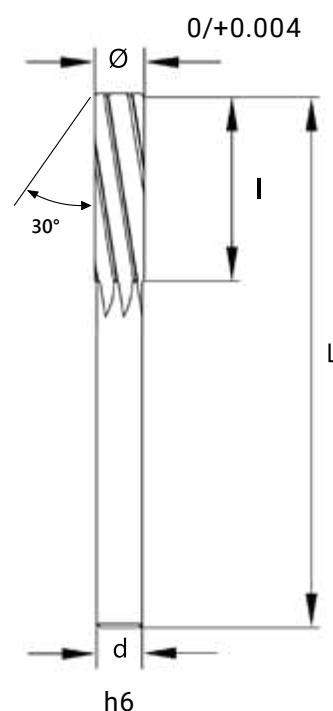


SOLID
WC

DIN
8089



Ø	+ Ø	d	L	I	Z
3.50 → 3.60	3.505	4	56	12	4
3.61 → 4.10	4.005	4	56	12	4
4.11 → 4.60	4.505	4	63	12	4
4.61 → 5.10	5.005	4	63	12	4
5.11 → 5.60	5.505	5	63	12	4
5.61 → 6.10	6.005	5	63	12	4
6.11 → 6.60	6.505	6	63	12	4
6.61 → 7.10	7.005	6	71	12	6
7.11 → 7.60	7.505	6	71	12	6
7.61 → 8.10	8.005	6	71	12	6
8.11 → 8.60	8.505	8	71	12	6
8.61 → 9.10	9.005	8	71	12	6
9.11 → 9.60	9.505	8	71	12	6
9.61 → 10.10	10.005	8	71	12	6
10.11 → 10.60		10	71	12	6
10.61 → 11.10		10	80	15	6
11.11 → 11.60		10	80	15	6
11.61 → 12.10		10	80	15	6
12.11 → 12.60		10	80	15	6
12.61 → 13.10		10	80	15	6
13.11 → 13.60		12	80	15	6
13.61 → 14.10		12	90	20	6
14.11 → 14.60		14	90	20	6
14.61 → 15.10		14	90	20	6
15.11 → 15.60		14	90	20	6
15.61 → 16.10		14	90	20	6
16.11 → 16.60		14	90	20	6
16.61 → 17.10		14	90	20	6
17.11 → 17.60		16	90	20	6
17.61 → 18.10		16	100	25	6
18.11 → 18.60		16	100	25	6
18.61 → 19.10		16	100	25	6
19.11 → 19.60		16	100	25	6
19.61 → 20.10		16	100	25	6



Ex. ref. Ø3.50 = ALC710-003.500

FOC

ALC

FRC

EVC

EBC

COF

info

**ALC
720****ALESOIRS CARBURE MONOBLOC EXTRA COURTS
DIN 8089 POUR MACHINES AUTOMATIQUES**Taille droite pour trous borgnes (Forme A)
Queue cylindrique

Solid carbide extra short machine reamers DIN 8089 - Straight flutes for blind holes



Escariadores extra cortos MD integral DIN 8089 - Labios rectos para agujeros ciegos



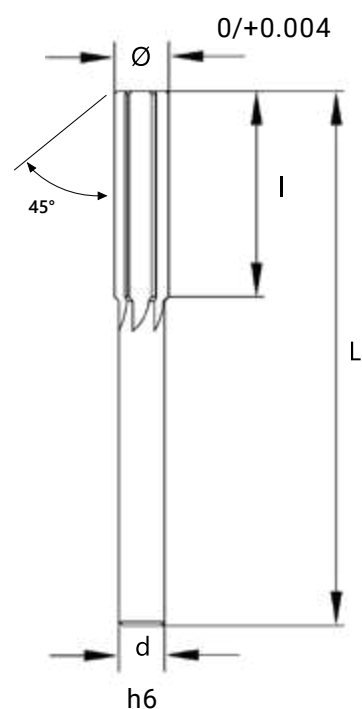
Alesatori extra corti MD integrale DIN 8089 - Taglienti diritti per fori ciechi



VHM extra kurze Maschinenreibahlen DIN 8089 - Geradenutet für Sackloch

**SOLID
WC****DIN
8089**

Ø	+ Ø	d	L	I	Z
3.50 → 3.60	3.505	4	56	12	4
3.61 → 4.10	4.005	4	56	12	4
4.11 → 4.60	4.505	4	63	12	4
4.61 → 5.10	5.005	4	63	12	4
5.11 → 5.60	5.505	5	63	12	4
5.61 → 6.10	6.005	5	63	12	4
6.11 → 6.60	6.505	6	63	12	4
6.61 → 7.10	7.005	6	71	12	6
7.11 → 7.60	7.505	6	71	12	6
7.61 → 8.10	8.005	6	71	12	6
8.11 → 8.60	8.505	8	71	12	6
8.61 → 9.10	9.005	8	71	12	6
9.11 → 9.60	9.505	8	71	12	6
9.61 → 10.10	10.005	8	71	12	6
10.11 → 10.60		10	71	12	6
10.61 → 11.10		10	80	15	6
11.11 → 11.60		10	80	15	6
11.61 → 12.10		10	80	15	6
12.11 → 12.60		10	80	15	6
12.61 → 13.10		10	80	15	6
13.11 → 13.60		12	80	15	6
13.61 → 14.10		12	90	20	6
14.11 → 14.60		14	90	20	6
14.61 → 15.10		14	90	20	6
15.11 → 15.60		14	90	20	6
15.61 → 16.10		14	90	20	6
16.11 → 16.60		14	90	20	6
16.61 → 17.10		14	90	20	6
17.11 → 17.60		16	90	20	6
17.61 → 18.10		16	100	25	6
18.11 → 18.60		16	100	25	6
18.61 → 19.10		16	100	25	6
19.11 → 19.60		16	100	25	6
19.61 → 20.10		16	100	25	6



Ex. ref. Ø3.50 = ALC720-003.500



ALESOIRS CARBURE MONOBLOC EXTRA COURTS DIN 8089 POUR MACHINES AUTOMATIQUES

Taille droite pour trous borgnes (Forme A)

Lubrification interne centrale - Queue cylindrique



Solid carbide extra short machine reamers DIN 8089 - Straight flutes for blind holes - Central lubrication



Escariadores extra cortos MD integral DIN 8089 - Labios rectos para agujeros ciegos - Refrigeración central



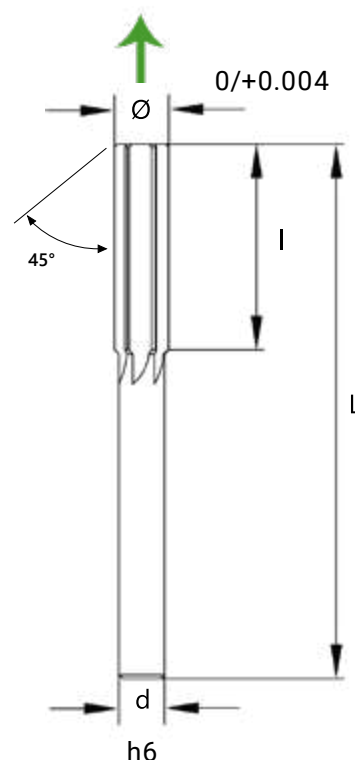
Alesatori extra corti MD integrale DIN 8089 - Taglienti diritti per fori ciechi - Lubrificazione centrale



VHM extra kurze Maschinenreibahlen DIN 8089 - Geradegenutet für Sackloch - Mit zentraler Innenkühlung



Ø	+ Ø	d	L	l	Z
3.50 → 3.60	3.505	4	56	12	4
3.61 → 4.10	4.005	4	56	12	4
4.11 → 4.60	4.505	4	63	12	4
4.61 → 5.10	5.005	4	63	12	4
5.11 → 5.60	5.505	5	63	12	4
5.61 → 6.10	6.005	5	63	12	4
6.11 → 6.60	6.505	6	63	12	4
6.61 → 7.10	7.005	6	71	12	4
7.11 → 7.60	7.505	6	71	12	4
7.61 → 8.10	8.005	6	71	12	4
8.11 → 8.60	8.505	8	71	12	5
8.61 → 9.10	9.005	8	71	12	5
9.11 → 9.60	9.505	8	71	12	5
9.61 → 10.10	10.005	8	71	12	5
10.11 → 10.60		10	71	12	5
10.61 → 11.10		10	80	15	5
11.11 → 11.60		10	80	15	5
11.61 → 12.10		10	80	15	5
12.11 → 12.60		10	80	15	5
12.61 → 13.10		10	80	15	5
13.11 → 13.60		12	80	15	5
13.61 → 14.10		12	90	20	5
14.11 → 14.60		14	90	20	5
14.61 → 15.10		14	90	20	5
15.11 → 15.60		14	90	20	5
15.61 → 16.10		14	90	20	5
16.11 → 16.60		14	90	20	5
16.61 → 17.10		14	90	20	5
17.11 → 17.60		16	90	20	5
17.61 → 18.10		16	100	25	5
18.11 → 18.60		16	100	25	5
18.61 → 19.10		16	100	25	5
19.11 → 19.60		16	100	25	5
19.61 → 20.10		16	100	25	5



Ex. ref. Ø3.50 = ALC100-003.500

**ALC
740****ALESOIRS MACHINE CARBURE MONOBLOC COURTS
HELICE A GAUCHE**

Pour trous débouchants



Solid carbide short machine reamers - Left hand helix for through holes



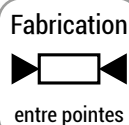
Escariadores cortos MD integral - Hélice a izquierda para agujeros pasantes



Alesatori corti MD integrale - Spirale sinistra per fori passanti

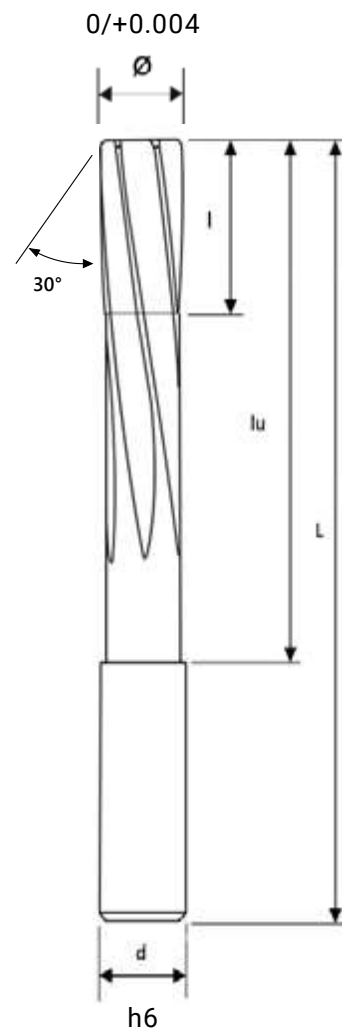


VHM kurze Maschinenreibahlen - Linksspiralgenutet für Durchgangsloch

**SOLID
WC****5/1000
mm**

Ø	d	L	l	lu	Z
1.480 → 2.250	2	49	10	30	3
2.255 → 2.750	2.5	57	12	32	3
2.755 → 3.250	3	61	12	36	4
3.255 → 3.750	3.5	70	12	42	4
3.755 → 4.250	4	75	12	47	4
4.255 → 4.750	4	80	12	52	4
4.755 → 5.250	5	86	16	56	4
5.255 → 5.750	5	86	16	56	4
5.755 → 6.250	6	86	16	56	4
6.255 → 6.750	6	86	16	56	6
6.755 → 7.250	8	86	16	56	6
7.255 → 7.750	8	86	16	56	6
7.755 → 8.250	8	86	16	56	6
8.255 → 8.750	8	90	20	60	6
8.755 → 9.250	10	90	20	60	6
9.255 → 9.750	10	90	20	60	6
9.755 → 10.250	10	90	20	60	6
10.255 → 10.750	10	90	20	60	6
10.755 → 11.250	12	95	20	60	6
11.255 → 11.750	12	95	20	60	6
11.755 → 12.250	12	95	20	60	6
12.255 → 12.750	12	105	25	70	6
12.755 → 13.250	14	105	25	70	6
13.255 → 13.750	14	115	25	80	6
13.755 → 14.250	14	115	25	80	6
14.255 → 14.750	14	120	30	85	6
14.755 → 15.250	16	130	30	85	6
15.255 → 15.750	16	130	30	85	6
15.755 → 16.250	16	130	30	85	6
16.255 → 16.750	16	140	30	95	6
16.755 → 17.250	18	140	30	95	6
17.255 → 17.750	18	140	30	95	6
17.755 → 18.250	18	140	30	95	6
18.255 → 18.750	18	140	30	95	6
18.755 → 19.250	20	140	30	95	6
19.255 → 19.750	20	140	30	95	6
19.755 → 20.250	20	140	30	95	6

Ex. ref. Ø1.48 = ALC740-001.480





ALESOIRS MACHINE CARBURE MONOBLOC COURTS TAILLE DROITE

Pour trous borgnes



Solid carbide short machine reamers - Straight flutes for blind holes



Escariadores cortos MD integral - Labios rectos para agujeros ciegos



Alesatori corti MD integrale - Taglienti diritti per fori ciechi

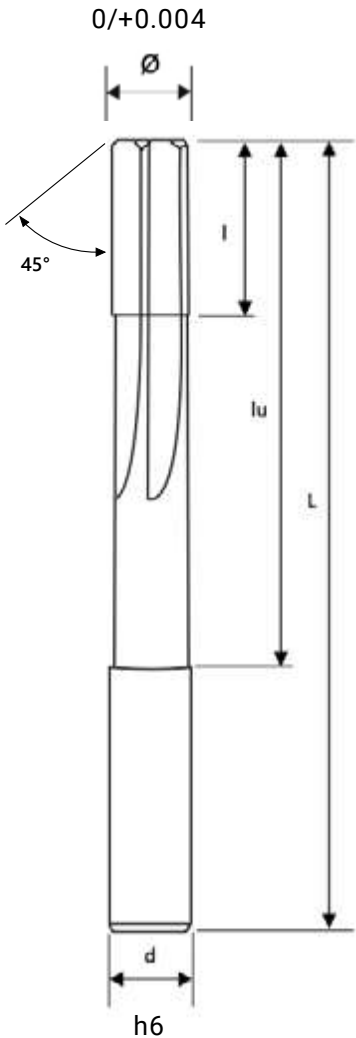


VHM kurze Maschinenreibahlen - Geradegenutet für Sackloch



Ø	d	L	l	lu	Z
1.480 → 2.250	2	49	10	30	3
2.255 → 2.750	2.5	57	12	32	3
2.755 → 3.250	3	61	12	36	4
3.255 → 3.750	3.5	70	12	42	4
3.755 → 4.250	4	75	12	47	4
4.255 → 4.750	4	80	12	52	4
4.755 → 5.250	5	86	16	56	4
5.255 → 5.750	5	86	16	56	4
5.755 → 6.250	6	86	16	56	4
6.255 → 6.750	6	86	16	56	6
6.755 → 7.250	8	86	16	56	6
7.255 → 7.750	8	86	16	56	6
7.755 → 8.250	8	86	16	56	6
8.255 → 8.750	8	90	20	60	6
8.755 → 9.250	10	90	20	60	6
9.255 → 9.750	10	90	20	60	6
9.755 → 10.250	10	90	20	60	6
10.255 → 10.750	10	90	20	60	6
10.755 → 11.250	12	95	20	60	6
11.255 → 11.750	12	95	20	60	6
11.755 → 12.250	12	95	20	60	6
12.255 → 12.750	12	105	25	70	6
12.755 → 13.250	14	105	25	70	6
13.255 → 13.750	14	115	25	80	6
13.755 → 14.250	14	115	25	80	6
14.255 → 14.750	14	120	30	85	6
14.755 → 15.250	16	130	30	85	6
15.255 → 15.750	16	130	30	85	6
15.755 → 16.250	16	130	30	85	6
16.255 → 16.750	16	140	30	95	6
16.755 → 17.250	18	140	30	95	6
17.255 → 17.750	18	140	30	95	6
17.755 → 18.250	18	140	30	95	6
18.255 → 18.750	18	140	30	95	6
18.755 → 19.250	20	140	30	95	6
19.255 → 19.750	20	140	30	95	6
19.755 → 20.250	20	140	30	95	6

Ex. ref. Ø1.48 = ALC750-001.480



SPEED TOOLS



NEW

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#XTRA



MICRO-ALESOIRS
CARBURE MONOBLOC

FOC

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FRC

EVC

EBC

COF

info



ALESOIRS MACHINE CARBURE MONOBLOC DIN 212 HELICE A GAUCHE

Pour trous débouchants



Solid carbide machine reamers DIN 212 - Left hand helix for through holes



Escariadores MD integral DIN 212 - Hélice a izquierda para agujeros pasantes



Alesatori MD integrale DIN 212 - Spirale sinistra per fori passanti

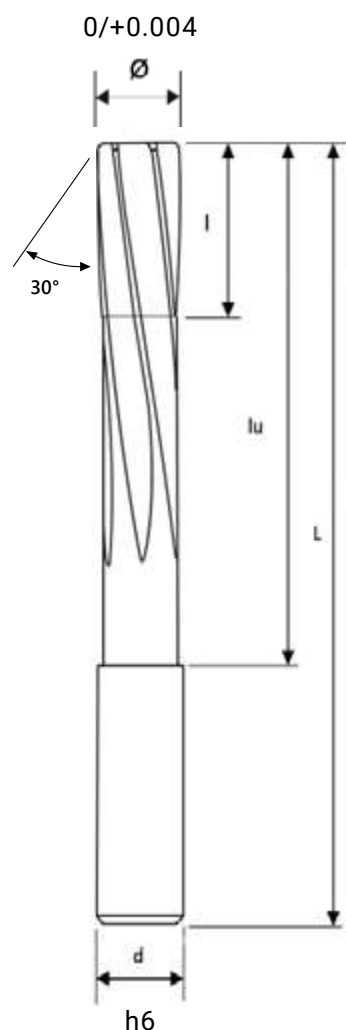


VHM Maschinenreibahlen DIN 212 - Linksspiralgenutet für Durchgangsloch



Ø	d	L	l	lu	Z
1.480 → 5.250	= ref. ALC740 page 36				
5.255 → 5.800	6	93	26	58	6
5.805 → 6.700	6	101	28	65	6
6.705 → 7.500	8	109	31	73	6
7.505 → 8.500	8	117	33	81	6
8.505 → 9.500	10	125	36	85	6
9.505 → 10.600	10	133	38	93	6
10.605 → 11.800	10	142	41	102	6
11.805 → 13.200	12	151	44	111	6
13.205 → 14.050	14	160	47	115	6
14.055 → 15.050	14	162	50	117	6
15.055 → 16.050	16	170	52	117	6
16.055 → 17.050	16	175	54	130	6
17.055 → 18.050	16	182	56	137	6
18.055 → 18.750	20	189	58	141	6
18.755 → 19.050	20	189	58	141	6
19.055 → 20.050	20	195	60	147	6

Ex. ref. Ø5.265 = ALC742-005.265



**ALC
774****ALESOIRS MACHINE CARBURE MONOBLOC LONGS
HELICE A GAUCHE**

Pour trous débouchants



Solid carbide long machine reamers - Left hand helix for through holes



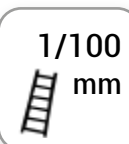
Escariadores largos MD integral - Hélice a izquierda para agujeros pasantes



Alesatori lunghi MD integrale - Spirale sinistra per fori passanti

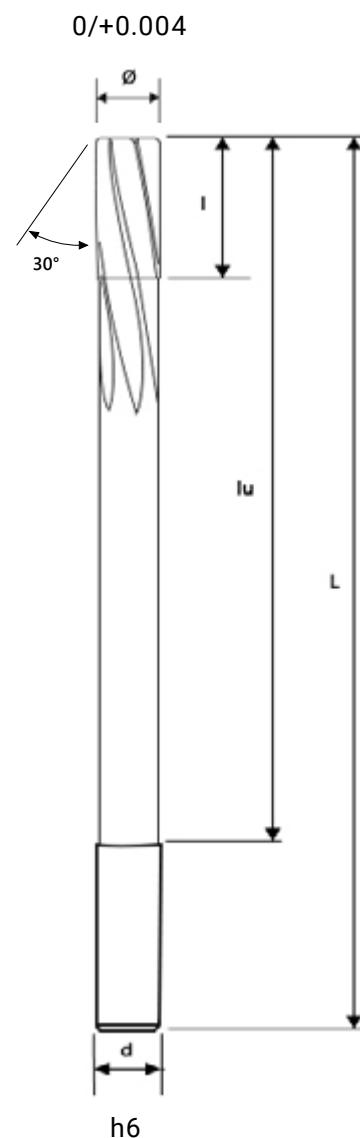


VHM lange Maschinenreibahlen - Linksspiralgenutzt für Durchgangsloch

**SOLID
WC**

Ø	+ Ø	d	L	l	lu	Z
2.76 → 3.25	3.005	3	95	12	70	4
3.26 → 3.75	3.505	4	95	12	70	4
3.76 → 4.25	4.005	4	105	16	80	4
4.26 → 4.75	4.505	4	105	16	80	4
4.76 → 5.25	5.005	5	115	30	90	4
5.26 → 5.75	5.505	5	115	30	90	4
5.76 → 6.25	6.005	6	130	30	100	4
6.26 → 6.75	6.505	6	130	30	100	6
6.76 → 7.25	7.005	8	140	30	110	6
7.26 → 7.75	7.505	8	140	30	110	6
7.76 → 8.25	8.005	8	160	30	130	6
8.26 → 8.75	8.505	8	160	30	130	6
8.76 → 9.25	9.005	10	160	30	130	6
9.26 → 9.75	9.505	10	160	30	130	6
9.76 → 10.25	10.005	10	190	30	150	6
10.26 → 10.75		10	190	30	150	6
10.76 → 11.25		12	190	30	150	6
11.26 → 11.75		12	190	30	150	6
11.76 → 12.25		12	220	35	170	6
12.26 → 12.75		12	220	35	170	6
12.76 → 13.25		14	220	35	170	6
13.26 → 13.75		14	220	35	170	6
13.76 → 14.25		14	220	35	170	6
14.26 → 14.75		14	220	35	170	6
14.76 → 15.25		16	220	35	170	6
15.26 → 15.75		16	220	35	170	6
15.76 → 16.25		16	230	40	180	6
16.26 → 16.75		16	230	40	180	6
16.76 → 17.25		18	230	40	180	6
17.26 → 17.75		18	230	40	180	6
17.76 → 18.25		18	230	40	180	6
18.26 → 18.75		18	230	40	180	6
18.76 → 19.25		20	230	40	180	6
19.26 → 19.75		20	230	40	180	6
19.76 → 20.25		20	230	40	180	6

Ex. ref. Ø3.76 = ALC774-003.760





ALESOIRS MACHINE CARBURE MONOBLOC LONGS TAILLE DROITE

Pour trous borgnes



Solid carbide long machine reamers - Straight flutes for blind holes



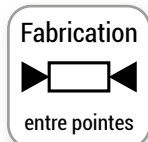
Escariadores largos MD integral - Labios rectos para agujeros ciegos



Alesatori lunghi MD integrale - Taglienti diritti per fori ciechi

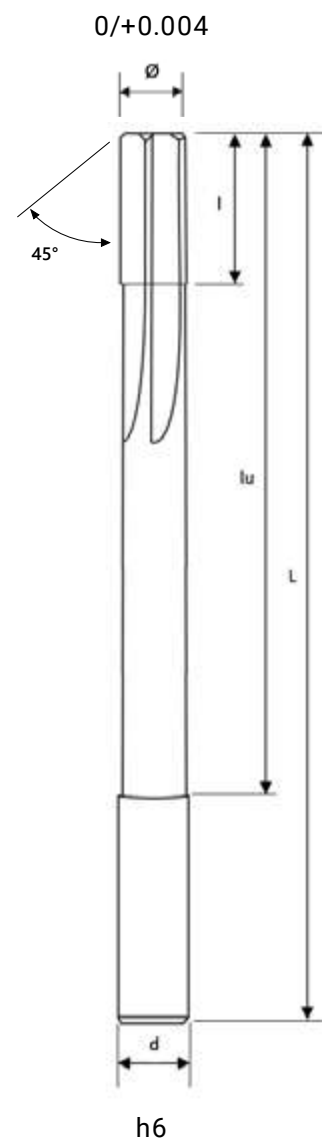


VHM lange Maschinenreihahlen - Geradenutet für Sackloch



Ø	+ Ø	d	L	l	lu	Z
2.76 → 3.25	3.005	3	95	12	70	4
3.26 → 3.75	3.505	4	95	12	70	4
3.76 → 4.25	4.005	4	105	16	80	4
4.26 → 4.75	4.505	4	105	16	80	4
4.76 → 5.25	5.005	5	115	30	90	4
5.26 → 5.75	5.505	5	115	30	90	4
5.76 → 6.25	6.005	6	130	30	100	4
6.26 → 6.75	6.505	6	130	30	100	6
6.76 → 7.25	7.005	8	140	30	110	6
7.26 → 7.75	7.505	8	140	30	110	6
7.76 → 8.25	8.005	8	160	30	130	6
8.26 → 8.75	8.505	8	160	30	130	6
8.76 → 9.25	9.005	10	160	30	130	6
9.26 → 9.75	9.505	10	160	30	130	6
9.76 → 10.25	10.005	10	190	30	150	6
10.26 → 10.75		10	190	30	150	6
10.76 → 11.25		12	190	30	150	6
11.26 → 11.75		12	190	30	150	6
11.76 → 12.25		12	220	35	170	6
12.26 → 12.75		12	220	35	170	6
12.76 → 13.25		14	220	35	170	6
13.26 → 13.75		14	220	35	170	6
13.76 → 14.25		14	220	35	170	6
14.26 → 14.75		14	220	35	170	6
14.76 → 15.25		16	220	35	170	6
15.26 → 15.75		16	220	35	170	6
15.76 → 16.25		16	230	40	180	6
16.26 → 16.75		16	230	40	180	6
16.76 → 17.25		18	230	40	180	6
17.26 → 17.75		18	230	40	180	6
17.76 → 18.25		18	230	40	180	6
18.26 → 18.75		18	230	40	180	6
18.76 → 19.25		20	230	40	180	6
19.26 → 19.75		20	230	40	180	6
19.76 → 20.25		20	230	40	180	6

Ex. ref. Ø3.76 = ALC775-003.760



FOC

ALC

FRC

EVC

EBC

COF

info

ALC 144

ALESOIRS MACHINE CARBURE MONOBLOC COURTS HELICE A GAUCHE

Pour trous débouchants

Lubrification interne latérale = 1 trou d'huile dans chaque dent !



Solid carbide short machine reamers - Left hand helix for through holes - Lateral lubrication in each flute



Escariadores cortos MD integral - Hélice a izquierda para agujeros pasantes - Refrigeración lateral en todos los labios



Alesatori corti MD integrale - Spirale sinistra per fori passanti - Lubrificazione radiale in ogni tagliente



VHM kurze Maschinenreibahlen - Linksspiralgenutzt für Durchgangsloch - Mit Innenkühlung in allen Zähnen

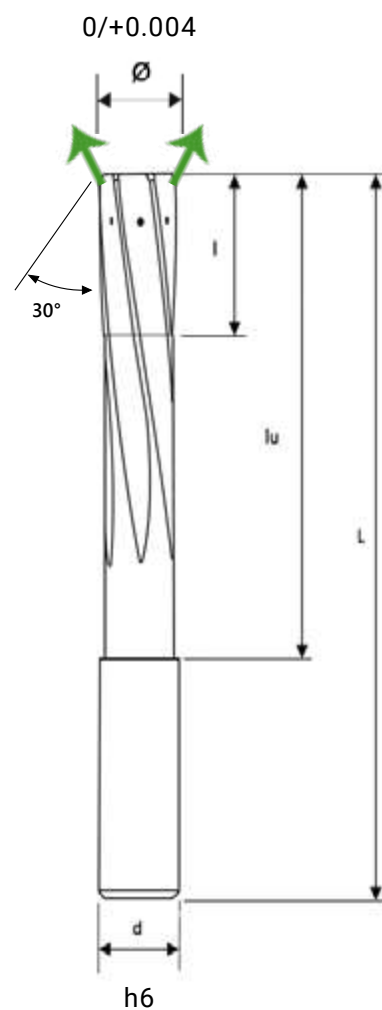


**SOLID
WC**



**5/1000
mm**

Ø	d	L	l	lu	Z
3.760 → 4.250	6	75	12	47	4
4.255 → 4.750	6	80	12	52	4
4.755 → 5.250	6	86	16	56	4
5.255 → 5.750	6	86	16	56	4
5.755 → 6.250	6	86	16	56	4
6.255 → 6.750	8	86	16	56	4
6.755 → 7.250	8	86	16	56	6
7.255 → 7.750	8	86	16	56	6
7.755 → 8.250	8	86	16	56	6
8.255 → 8.750	10	92	20	60	6
8.755 → 9.250	10	92	20	60	6
9.255 → 9.750	10	92	20	60	6
9.755 → 10.250	10	92	20	60	6
10.255 → 10.750	12	95	20	60	6
10.755 → 11.250	12	95	20	60	6
11.255 → 11.750	12	95	20	60	6
11.755 → 12.250	12	95	20	60	6
12.255 → 12.750	14	115	25	80	6
12.755 → 13.250	14	115	25	80	6
13.255 → 13.750	14	115	25	80	6
13.755 → 14.250	14	115	25	80	6
14.255 → 14.750	16	130	30	85	6
14.755 → 15.250	16	130	30	85	6
15.255 → 15.750	16	130	30	85	6
15.755 → 16.250	16	130	30	85	6
16.255 → 16.750	18	140	30	95	6
16.755 → 17.250	18	140	30	95	6
17.255 → 17.750	18	140	30	95	6
17.755 → 18.250	18	140	30	95	6
18.255 → 18.750	20	140	30	95	6
18.755 → 19.250	20	140	30	95	6
19.255 → 19.750	20	140	30	95	6
19.755 → 20.250	20	140	30	95	6



Ex. ref. Ø3.76 = ALC144-003.760

ALC 154

ALESOIRS MACHINE CARBURE MONOBLOC COURTS TAILLE DROITE

Pour trous borgnes

Lubrification interne latérale = 1 trou d'huile dans chaque dent !



Solid carbide short machine reamers - Straight flutes for blind holes - Lateral lubrication in each flute



Escariadores cortos MD integral - Labios rectos para agujeros ciegos - Refrigeración lateral en todos los labios



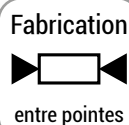
Alesatori corti MD integrale - Taglienti diritti per fori ciechi - Lubrificazione radiale in ogni tagliente



VHM kurze Maschinenreibahlen - Geradegenutet für Sackloch - Mit Innenkühlung in allen Zähnen

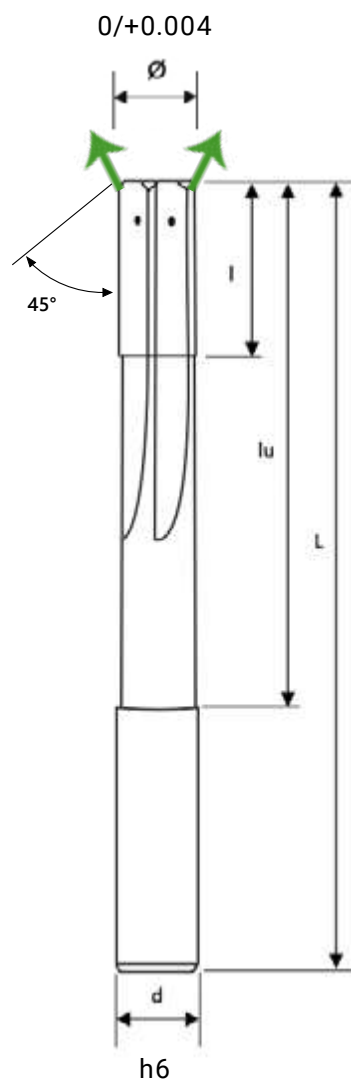


**SOLID
WC**



**5/1000
mm**

Ø	d	L	l	lu	Z
3.760 → 4.250	6	75	12	47	4
4.255 → 4.750	6	80	12	52	4
4.755 → 5.250	6	86	16	56	4
5.255 → 5.750	6	86	16	56	4
5.755 → 6.250	6	86	16	56	4
6.255 → 6.750	8	86	16	56	4
6.755 → 7.250	8	86	16	56	6
7.255 → 7.750	8	86	16	56	6
7.755 → 8.250	8	86	16	56	6
8.255 → 8.750	10	92	20	60	6
8.755 → 9.250	10	92	20	60	6
9.255 → 9.750	10	92	20	60	6
9.755 → 10.250	10	92	20	60	6
10.255 → 10.750	12	95	20	60	6
10.755 → 11.250	12	95	20	60	6
11.255 → 11.750	12	95	20	60	6
11.755 → 12.250	12	95	20	60	6
12.255 → 12.750	14	115	25	80	6
12.755 → 13.250	14	115	25	80	6
13.255 → 13.750	14	115	25	80	6
13.755 → 14.250	14	115	25	80	6
14.255 → 14.750	16	130	30	85	6
14.755 → 15.250	16	130	30	85	6
15.255 → 15.750	16	130	30	85	6
15.755 → 16.250	16	130	30	85	6
16.255 → 16.750	18	140	30	95	6
16.755 → 17.250	18	140	30	95	6
17.255 → 17.750	18	140	30	95	6
17.755 → 18.250	18	140	30	95	6
18.255 → 18.750	20	140	30	95	6
18.755 → 19.250	20	140	30	95	6
19.255 → 19.750	20	140	30	95	6
19.755 → 20.250	20	140	30	95	6



Ex. ref. Ø3.76 = ALC154-003.760

ALC 174

ALESOIRS MACHINE CARBURE MONOBLOC LONGS HELICE A GAUCHE

Pour trous débouchants

Lubrification interne latérale = 1 trou d'huile dans chaque dent !



Solid carbide long machine reamers - Left hand helix for through holes - Lateral lubrication in each flute



Escariadores largos MD integral - Hélice a izquierda para agujeros pasantes - Refrigeración lateral en todos los labios



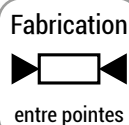
Alesatori lunghi MD integrale - Spirale sinistra per fori passanti - Lubrificazione radiale in ogni tagliente



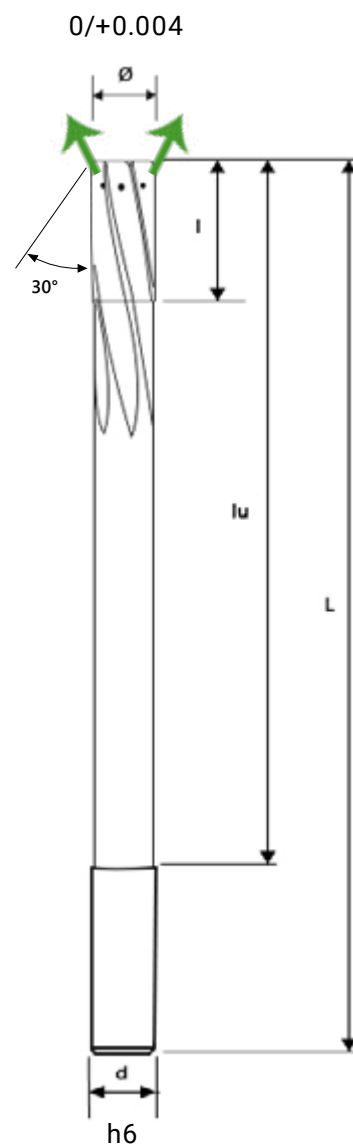
VHM lange Maschinenreibahlen - Linksspiralgenutzt für Durchgangsloch - Mit Innenkühlung in allen Zähnen



**SOLID
WC**



Ø	+ Ø	d	L	l	lu	Z
3.76 → 4.25	4.005	6	105	16	75	4
4.26 → 4.75	4.505	6	105	16	75	4
4.76 → 5.25	5.005	6	115	30	85	4
5.26 → 5.75	5.505	6	115	30	85	4
5.76 → 6.25	6.005	6	130	30	95	4
6.26 → 6.75	6.505	6	130	30	95	4
6.76 → 7.25	7.005	8	140	30	105	6
7.26 → 7.75	7.505	8	140	30	105	6
7.76 → 8.25	8.005	8	160	30	125	6
8.26 → 8.75	8.505	8	160	30	125	6
8.76 → 9.25	9.005	10	165	30	125	6
9.26 → 9.75	9.505	10	165	30	125	6
9.76 → 10.25	10.005	10	190	30	150	6
10.26 → 10.75		10	190	30	150	6
10.76 → 11.25		12	195	30	150	6
11.26 → 11.75		12	195	30	150	6
11.76 → 12.25		12	220	35	170	6
12.26 → 12.75		12	220	35	170	6
12.76 → 13.25		14	220	35	170	6
13.26 → 13.75		14	220	35	170	6
13.76 → 14.25		14	220	35	170	6
14.26 → 14.75		14	220	35	170	6
14.76 → 15.25		16	220	35	170	6
15.26 → 15.75		16	220	35	170	6
15.76 → 16.25		16	230	40	180	6
16.26 → 16.75		16	230	40	180	6
16.76 → 17.25		18	230	40	180	6
17.26 → 17.75		18	230	40	180	6
17.76 → 18.25		18	230	40	180	6
18.26 → 18.75		18	230	40	180	6
18.76 → 19.25		20	230	40	180	6
19.26 → 19.75		20	230	40	180	6
19.76 → 20.25		20	230	40	180	6



Ex. ref. Ø3.76 = ALC174-003.760

ALC 175

ALESOIRS MACHINE CARBURE MONOBLOC LONGS TAILLE DROITE

Pour trous borgnes

Lubrification interne latérale = 1 trou d'huile dans chaque dent !



Solid carbide long machine reamers - Straight flutes for blind holes - Lateral lubrication in each flute



Escariadores largos MD integral - Labios rectos para agujeros ciegos - Refrigeración lateral en todos los labios



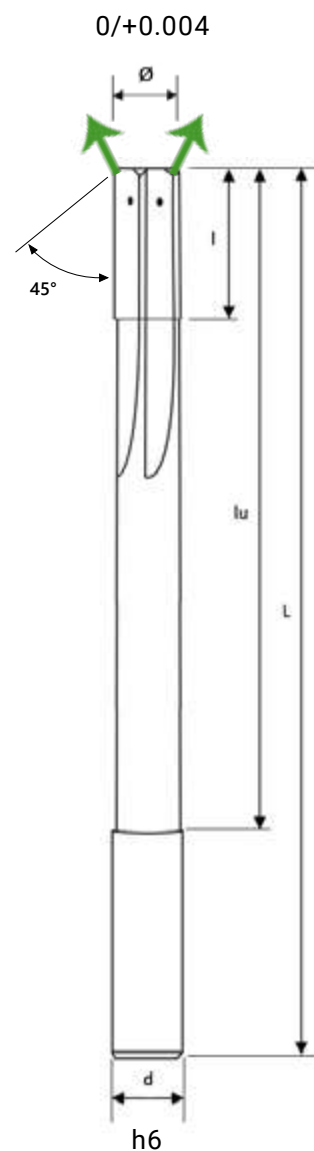
Alesatori lunghi MD integrale - Taglienti diritti per fori ciechi - Lubrificazione radiale in ogni tagliente



VHM lange Maschinenreihahlen - Geradegenutet für Sackloch - Mit Innenkühlung in allen Zähnen



Ø	+ Ø	d	L	l	lu	Z
3.76 → 4.25	4.005	6	105	16	75	4
4.26 → 4.75	4.505	6	105	16	75	4
4.76 → 5.25	5.005	6	115	30	85	4
5.26 → 5.75	5.505	6	115	30	85	4
5.76 → 6.25	6.005	6	130	30	95	4
6.26 → 6.75	6.505	6	130	30	95	4
6.76 → 7.25	7.005	8	140	30	105	6
7.26 → 7.75	7.505	8	140	30	105	6
7.76 → 8.25	8.005	8	160	30	125	6
8.26 → 8.75	8.505	8	160	30	125	6
8.76 → 9.25	9.005	10	165	30	125	6
9.26 → 9.75	9.505	10	165	30	125	6
9.76 → 10.25	10.005	10	190	30	150	6
10.26 → 10.75		10	190	30	150	6
10.76 → 11.25		12	195	30	150	6
11.26 → 11.75		12	195	30	150	6
11.76 → 12.25		12	220	35	170	6
12.26 → 12.75		12	220	35	170	6
12.76 → 13.25		14	220	35	170	6
13.26 → 13.75		14	220	35	170	6
13.76 → 14.25		14	220	35	170	6
14.26 → 14.75		14	220	35	170	6
14.76 → 15.25		16	220	35	170	6
15.26 → 15.75		16	220	35	170	6
15.76 → 16.25		16	230	40	180	6
16.26 → 16.75		16	230	40	180	6
16.76 → 17.25		18	230	40	180	6
17.26 → 17.75		18	230	40	180	6
17.76 → 18.25		18	230	40	180	6
18.26 → 18.75		18	230	40	180	6
18.76 → 19.25		20	230	40	180	6
19.26 → 19.75		20	230	40	180	6
19.76 → 20.25		20	230	40	180	6



Ex. ref. Ø3.76 = ALC175-003.760

ALC
114

ALESOIRS MACHINE CARBURE MONOBLOC COURTS TAILLE DROITE

Pour trous borgnes

Lubrification interne centrale



Solid carbide short machine reamers - Straight flutes for blind holes - Central lubrication



Escariadores cortos MD integral - Labios rectos para agujeros ciegos - Refrigeración central



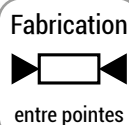
Alesatori corti MD integrale - Taglienti diritti per fori ciechi - Lubrificazione centrale



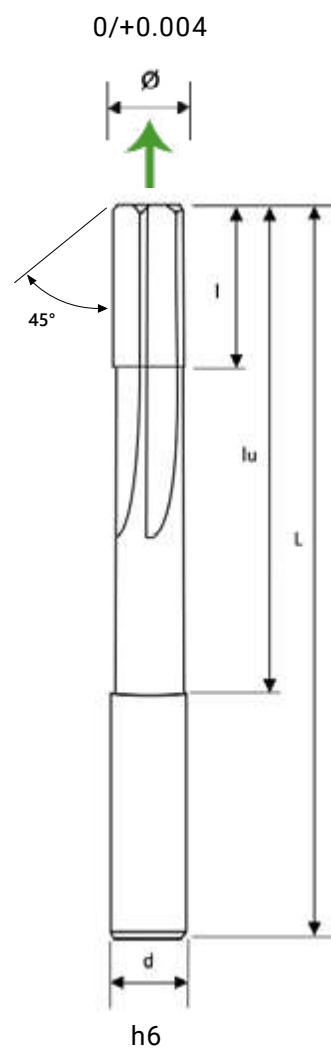
VHM kurze Maschinenreibahlen - Geradegenutet für Sackloch - Mit zentraler Innenkühlung



SOLID
WC



Ø	+ Ø	d	L	l	lu	Z
3.61 → 4.10	4.005	6	80	15	55	4
4.11 → 4.60	4.505	6	80	15	55	4
4.61 → 5.10	5.005	6	80	15	55	4
5.11 → 5.60	5.505	6	80	15	55	4
5.61 → 6.10	6.005	6	80	15	55	4
6.11 → 6.60	6.505	8	90	20	60	4
6.61 → 7.10	7.005	8	90	20	60	4
7.11 → 7.60	7.505	8	90	20	60	4
7.61 → 8.10	8.005	8	90	20	60	4
8.11 → 8.60	8.505	10	90	20	60	5
8.61 → 9.10	9.005	10	90	20	60	5
9.11 → 9.60	9.505	10	90	20	60	5
9.61 → 10.10	10.005	10	90	20	60	5
10.11 → 10.60		12	90	20	60	5
10.61 → 11.10		12	90	20	60	5
11.11 → 11.60		12	90	20	60	5
11.61 → 12.10		12	90	20	60	5
12.11 → 12.60		14	105	25	75	5
12.61 → 13.10		14	105	25	75	5
13.11 → 13.60		14	105	25	75	5
13.61 → 14.10		14	105	25	75	5
14.11 → 14.60		16	105	25	75	5
14.61 → 15.10		16	105	25	75	5
15.11 → 15.60		16	105	25	75	5
15.61 → 16.10		16	105	25	75	5
16.11 → 16.60		18	120	30	85	5
16.61 → 17.10		18	120	30	85	5
17.11 → 17.60		18	120	30	85	5
17.61 → 18.10		18	120	30	85	5
18.11 → 18.60		20	130	30	95	5
18.61 → 19.10		20	130	30	95	5
19.11 → 19.60		20	130	30	95	5
19.61 → 20.10		20	130	30	95	5



Ex. ref. Ø3.76 = ALC114-003.760

ALESOIRS MACHINE CARBURE MONOBLOC COURTS TAILLE DROITE

Pour trous borgnes

Lubrification interne centrale



Solid carbide short machine reamers - Straight flutes 90° for blind holes - Central lubrication



Escariadores cortos MD integral - Labios rectos 90° para agujeros ciegos - Refrigeración central



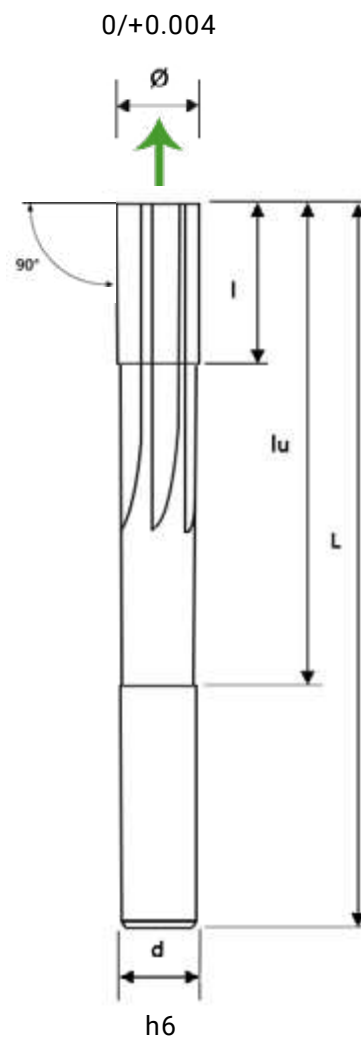
Alesatori corti MD integrale - Taglienti diritti 90° per fori ciechi - Lubrificazione centrale



VHM kurze Maschinenreibahlen - Geradegenutet 90° für Sackloch - Mit zentraler Innenkühlung



Ø	+ Ø	d	L	l	lu	Z
3.61 → 4.10	4.005	6	80	15	55	4
4.11 → 4.60	4.505	6	80	15	55	4
4.61 → 5.10	5.005	6	80	15	55	4
5.11 → 5.60	5.505	6	80	15	55	4
5.61 → 6.10	6.005	6	80	15	55	4
6.11 → 6.60	6.505	8	90	20	60	4
6.61 → 7.10	7.005	8	90	20	60	4
7.11 → 7.60	7.505	8	90	20	60	4
7.61 → 8.10	8.005	8	90	20	60	4
8.11 → 8.60	8.505	10	90	20	60	5
8.61 → 9.10	9.005	10	90	20	60	5
9.11 → 9.60	9.505	10	90	20	60	5
9.61 → 10.10	10.005	10	90	20	60	5
10.11 → 10.60		12	90	20	60	5
10.61 → 11.10		12	90	20	60	5
11.11 → 11.60		12	90	20	60	5
11.61 → 12.10		12	90	20	60	5
12.11 → 12.60		14	105	25	75	5
12.61 → 13.10		14	105	25	75	5
13.11 → 13.60		14	105	25	75	5
13.61 → 14.10		14	105	25	75	5
14.11 → 14.60		16	105	25	75	5
14.61 → 15.10		16	105	25	75	5
15.11 → 15.60		16	105	25	75	5
15.61 → 16.10		16	105	25	75	5
16.11 → 16.60		18	120	30	85	5
16.61 → 17.10		18	120	30	85	5
17.11 → 17.60		18	120	30	85	5
17.61 → 18.10		18	120	30	85	5
18.11 → 18.60		20	130	30	95	5
18.61 → 19.10		20	130	30	95	5
19.11 → 19.60		20	130	30	95	5
19.61 → 20.10		20	130	30	95	5



Ex. ref. Ø3.76 = ALC124-003.760

ALC 780

ALESOIRS A MAIN AMERICAINS CARBURE MONOBLOC

« Alésoirs voilure »



Solid carbide hand reamers for aircraft wings - Straight shank with square



Escariadores manuales MD integral para ala aeronáutica - Mango cilíndrico con cuadrado



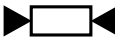
Alesatori a mano MD integrale per ala aeronautica - Gambo cilindrico con quadrato



VHM Handreibahlen für Luftfahrtflügel - Zylinderschaft mit Vierkant



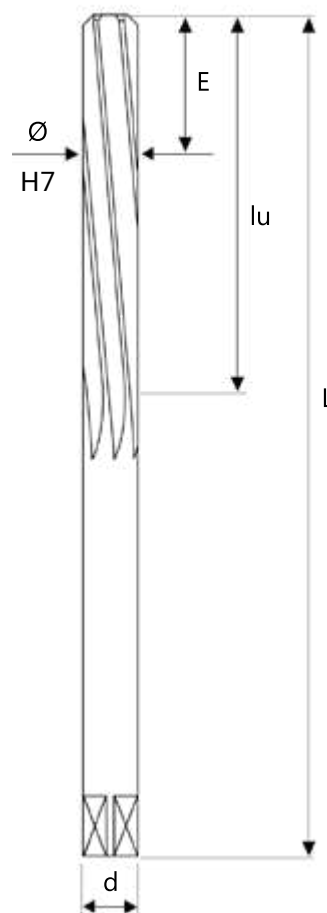
**SOLID
WC**

Fabrication

entre pointes

**1/100
mm**

Ø	d	L	lu	E	Z
3.76 → 4.25	Ø	100	60	10	4
4.26 → 4.75	Ø	100	60	10	4
4.76 → 5.25	Ø	100	60	10	4
5.26 → 5.75	Ø	100	60	10	4
5.76 → 6.25	Ø	100	60	10	6
6.26 → 6.75	Ø	100	60	10	6
6.76 → 7.25	Ø	100	60	10	6
7.26 → 7.75	Ø	100	60	10	6
7.76 → 8.25	Ø	100	60	10	6
8.26 → 8.75	Ø	100	60	10	6
8.76 → 9.25	Ø	100	60	10	6
9.26 → 9.75	Ø	100	60	10	6
9.76 → 10.25	Ø	100	60	10	6
10.26 → 10.75	Ø	100	60	10	6
10.76 → 11.25	Ø	100	60	10	6
11.26 → 11.75	Ø	100	60	10	6
11.76 → 12.25	Ø	100	60	10	6

Ex. ref. Ø3.76 = ALC780-003.760





ALESOIRS A MAIN FAÇON PARIS CARBURE MONOBLOC



Solid carbide hand reamers « Paris Style » - Straight shank with square



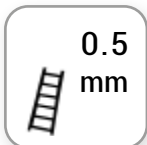
Escariadores manuales MD integral « Estilo Parisino » - Mango cilíndrico con cuadrado



Alesatori a mano MD integrale « Stile Parigino » - Gambo cilindrico con quadrato

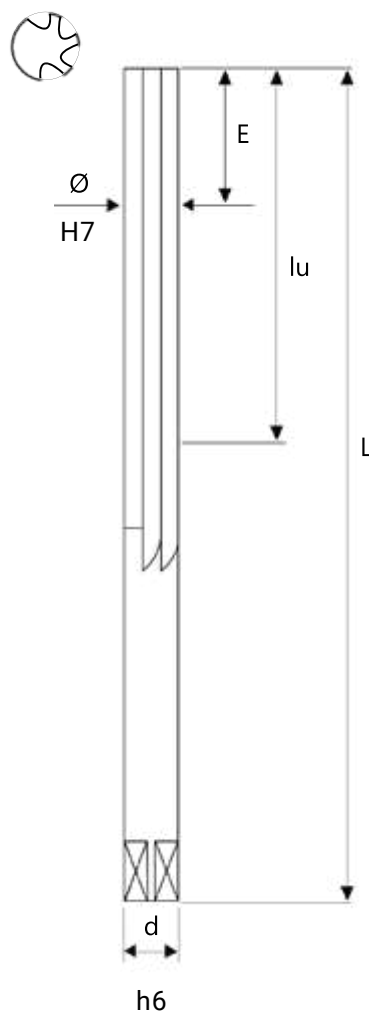


VHM Handreibahlen « Pariser Stil » - Zylinderschaft mit Vierkant



Ø	d	L	lu	E	Z
4	4	100	60	20	3
4.5	4.5	106	63	21	3
5	5	112	67	22	3
5.5	5.5	118	71	24	3
6	6	118	71	24	3
6.5	6.5	125	75	25	3
7	7	132	80	26	3
7.5	8	132	80	26	3
8	8	140	85	28	3
8.5	9	140	85	28	3
9	9	150	90	30	3
9.5	10	150	90	32	3
10	10	160	95	32	3
10.5	11	160	95	32	3
11	11	170	100	34	3
11.5	12	170	100	34	3
12	12	180	106	36	3
12.5	13	180	106	36	3
13	13	180	106	36	3
13.5	14	190	112	38	3
14	14	190	112	38	3
14.5	15	190	112	38	3
15	15	190	112	38	3
15.5	16	200	118	40	3
16	16	200	118	40	3

Ex. ref. Ø4.5 = ALC790-004.500





REDRESSEURS CARBURE MONOBLOC AVANT LE PASSAGE DES ALESOIRS

Conservent une surépaisseur régulière et réalignent les trous dans les pièces brutes de fonderie et pièces trempées



Solid carbide short rectifiers before reaming for tempered parts and raw castings



Rectificadores MD integral antes del escariado para piezas templadas y fundidas en bruto



Raddrizzatori MD integrale prima dell'alesatura per parti temprate e fusioni grezze

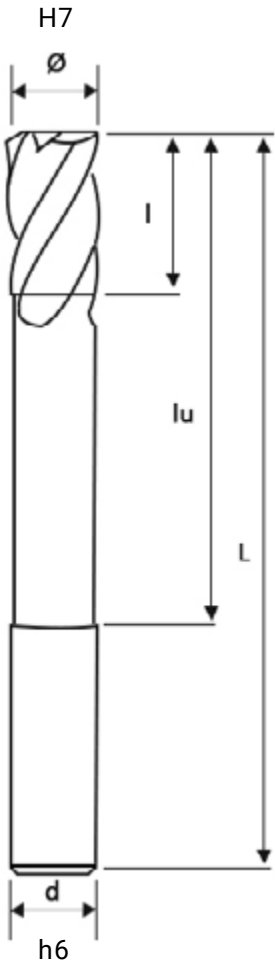


VHM kurze Gleichrichter vor dem Reiben für gehärtete Teile und Rohguss



Ø	d	L	l	lu	Z
3.7 → 4.1	4	75	12	45	3
4.2 → 4.6	4	80	12	52	3
4.7 → 5.1	5	86	16	56	3
5.2 → 5.6	5	86	16	56	3
5.7 → 6.1	6	86	16	56	3
6.2 → 6.6	6	86	16	56	3
6.7 → 7.1	8	86	16	56	3
7.2 → 7.6	8	86	16	56	3
7.7 → 8.1	8	86	16	56	3
8.2 → 8.6	8	90	20	60	3
8.7 → 9.1	10	90	20	60	3
9.2 → 9.6	10	90	20	60	3
9.7 → 10.1	10	90	20	60	3
10.2 → 10.6	10	90	20	60	3
10.7 → 11.1	10	90	20	60	3
11.2 → 11.6	12	90	20	60	3
11.7 → 12.1	12	90	20	60	3
12.2 → 12.6	12	100	25	70	3
12.7 → 13.1	12	100	25	70	3

Ex. ref. Ø3.8 = RDC730-003.800



FRAISES CARBURE MONOBLOC

Endmills - Fresas - Frese - Fräser (Carbide/MD/VHM)

FRC120	Fraises universelles - 2 dents - Droites - Courtes <i>Multipurpose endmills - 2 flutes - Square nose - Short length</i>	Page 95
FRC121	Fraises universelles - 2 dents - Droites - Longues <i>Multipurpose endmills - 2 flutes - Square nose - Long length</i>	Page 95
FRC130	Fraises universelles - 3 dents - Droites - Courtes <i>Multipurpose endmills - 3 flutes - Square nose - Short length</i>	Page 96
FRC131	Fraises universelles - 3 dents - Droites - Longues <i>Multipurpose endmills - 3 flutes - Square nose - Long length</i>	Page 96
FRC140	Fraises universelles - 4 dents - Droites - Courtes <i>Multipurpose endmills - 4 flutes - Square nose - Short length</i>	Page 97
FRC141	Fraises universelles - 4 dents - Droites - Longues <i>Multipurpose endmills - 4 flutes - Square nose - Long length</i>	Page 97
FRC125	Fraises universelles - 2 dents - Sphériques - Courtes <i>Multipurpose endmills - 2 flutes - Ball nose - Short length</i>	Page 99
FRC126	Fraises universelles - 2 dents - Sphériques - Longues <i>Multipurpose endmills - 2 flutes - Ball nose - Long length</i>	Page 99
FRC145	Fraises universelles - 4 dents - Sphériques - Courtes <i>Multipurpose endmills - 4 flutes - Ball nose - Short length</i>	Page 100
FRC146	Fraises universelles - 4 dents - Sphériques - Longues <i>Multipurpose endmills - 4 flutes - Ball nose - Long length</i>	Page 100

FRC
120
121

FRAISES CARBURE MONOBLOC 2 LEVRES POLYVALENTES

Bout droit - Courtes ou longues - Coupe au centre



Solid carbide **short or long** endmills - Square nose - Center cut - 2 flutes - Uncoated



Fresas rectas **cortas o largas** MD integral - Corte al centro - 2 labios - Sin recubrimiento



Frese dritte **corte o lunghe** MD integrale - Taglio al centro - 2 taglienti - Non rivestite



VHM **kurze oder lange** Schaftfräser - Mittelschnitt - 2 Schneiden - Unbeschichtet



EUROMAC



MADE IN
FRANCE

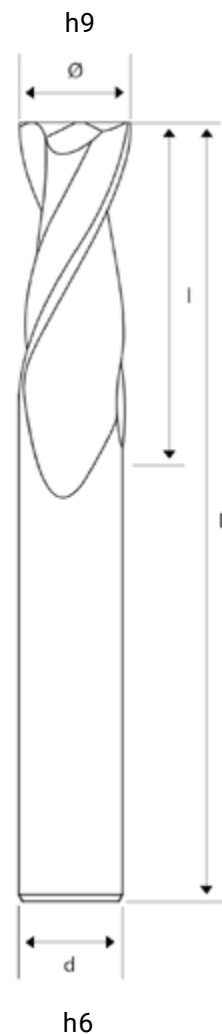
SOLID
WC

Ø	d	L	l	Z
2	2	38	8	2
2.5	2.5	38	8	2
3	3	38	12	2
3.5	3.5	40	12	2
4	4	40	12	2
5	5	50	14	2
6	6	57	16	2
7	7	60	20	2
8	8	60	20	2
9	9	60	20	2
10	10	70	22	2
11	11	70	22	2
12	12	83	26	2
13	13	83	26	2
14	14	83	26	2
15	15	92	32	2
16	16	92	32	2
18	18	92	32	2
20	20	100	32	2
25	25	122	45	2

Ex. ref. Ø2 = FRC120-002.000

Ø	d	L	l	Z
3	3	55	20	2
4	4	60	20	2
5	5	60	20	2
6	6	100	30	2
7	7	100	30	2
8	8	100	30	2
9	9	100	30	2
10	10	100	30	2
11	11	120	40	2
12	12	120	40	2
13	13	150	50	2
14	14	150	50	2
16	16	150	60	2
18	18	150	60	2
20	20	150	60	2
25	25	150	60	2

Ex. ref. Ø3 = FRC121-003.000



F0C

ALC

FRC

EVC

EBC

COF

info

FRC
130
131FRAISES CARBURE MONOBLOC 3 LEVRES
POLYVALENTES

Bout droit - Courtes ou longues - Coupe au centre

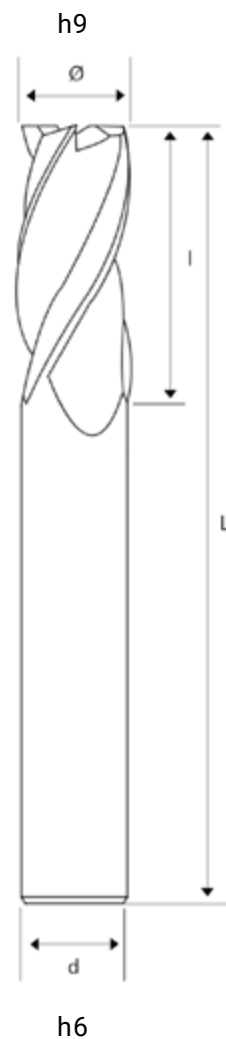
Solid carbide *short or long* endmills - Square nose - Center cut - 3 flutes - UncoatedFresas rectas *cortas o largas* MD integral - Corte al centro - 3 labios - Sin recubrimientoFrese dritte *corte o lunghe* MD integrale - Taglio al centro - 3 taglienti - Non rivestiteVHM *kurze oder lange* Schaftfräser - Mittelschnitt - 3 Schneiden - UnbeschichtetSOLID
WC

Ø	d	L	l	Z
2	2	38	8	3
2.5	2.5	38	8	3
3	3	38	12	3
3.5	3.5	40	12	3
4	4	40	12	3
5	5	50	14	3
6	6	57	16	3
7	7	60	20	3
8	8	60	20	3
9	9	60	20	3
10	10	70	22	3
11	11	70	22	3
12	12	83	26	3
13	13	83	26	3
14	14	83	26	3
15	15	92	32	3
16	16	92	32	3
18	18	92	32	3
20	20	100	32	3
25	25	122	45	3

Ex. ref. Ø2 = FRC130-002.000

Ø	d	L	l	Z
3	3	55	20	3
4	4	60	20	3
5	5	60	20	3
6	6	100	30	3
7	7	100	30	3
8	8	100	30	3
9	9	100	30	3
10	10	100	30	3
11	11	120	40	3
12	12	120	40	3
13	13	150	50	3
14	14	150	50	3
16	16	150	60	3
18	18	150	60	3
20	20	150	60	3
25	25	150	60	3

Ex. ref. Ø3 = FRC131-003.000



**FRC
140
141**

FRAISES CARBURE MONOBLOC 4 LEVRES POLYVALENTES

Bout droit - **Courtes ou longues** - Coupe au centre



Solid carbide **short or long** endmills - Square nose - Center cut - 4 flutes - Uncoated



Fresas rectas **cortas o largas** MD integral - Corte al centro - 4 labios - Sin recubrimiento



Frese dritte **corte o lunghe** MD integrale - Taglio al centro - 4 taglienti - Non rivestite



VHM **kurze oder lange** Schaftfräser - Mittelschnitt - 4 Schneiden - Unbeschichtet



EUROMAC



MADE IN
FRANCE

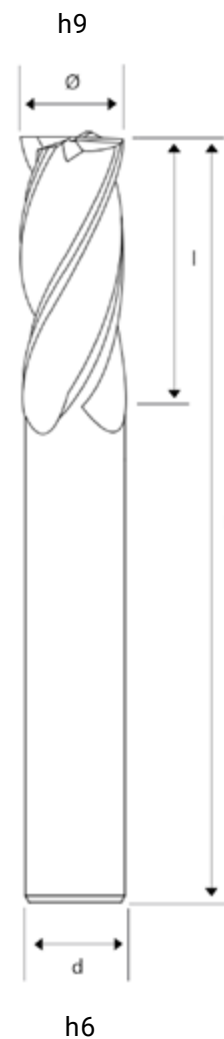
**SOLID
WC**

Ø	d	L	l	Z
2	2	38	8	4
2.5	2.5	38	8	4
3	3	38	12	4
3.5	3.5	40	12	4
4	4	40	12	4
5	5	50	14	4
6	6	57	16	4
7	7	60	20	4
8	8	60	20	4
9	9	60	20	4
10	10	70	22	4
11	11	70	22	4
12	12	83	26	4
13	13	83	26	4
14	14	83	26	4
15	15	92	32	4
16	16	92	32	4
18	18	92	32	4
20	20	100	32	4
25	25	122	45	4

Ex. ref. Ø2 = FRC140-002.000

Ø	d	L	l	Z
3	3	55	20	4
4	4	60	20	4
5	5	60	20	4
6	6	100	30	4
7	7	100	30	4
8	8	100	30	4
9	9	100	30	4
10	10	100	30	4
11	11	120	40	4
12	12	120	40	4
13	13	150	50	4
14	14	150	50	4
16	16	150	60	4
18	18	150	60	4
20	20	150	60	4
25	25	150	60	4

Ex. ref. Ø3 = FRC141-003.000



F0C

ALC

FRC

EVC

EBC

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ECHO

CATALOGUE ECHO

FRAISES CARBURE MONOBLOC ANTIVIBRATOIRES

FRC
125
126

FRAISES CARBURE MONOBLOC 2 LEVRES POLYVALENTES

Hémisphériques - Courtes ou longues



Solid carbide **short or long** endmills - Ball nose - 2 flutes - Uncoated



Fresas esféricas **cortas o largas** MD integral - 2 labios - Sin recubrimiento



Frese sferiche **corte o lunghe** MD integrale - 2 taglienti - Non rivestite



VHM **kurze oder lange** Radiusfräser - 2 Schneiden - Unbeschichtet



EUROMAC



MADE IN
FRANCE

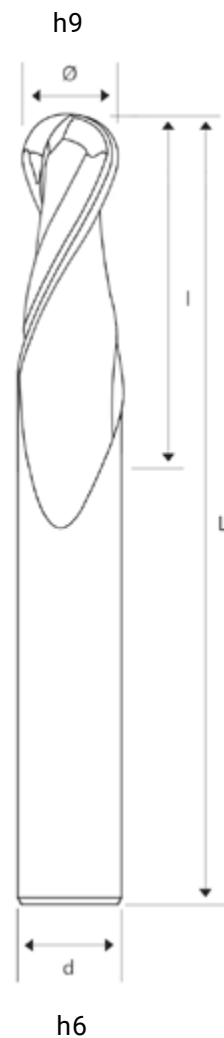
SOLID
WC

Ø	d	L	l	Z
2	2	38	8	2
2.5	2.5	38	8	2
3	3	38	12	2
3.5	3.5	40	12	2
4	4	40	12	2
4.5	4.5	50	14	2
5	5	50	14	2
5.5	5.5	50	16	2
6	6	50	16	2
6.5	6.5	50	16	2
7	7	60	20	2
7.5	7.5	60	20	2
8	8	60	20	2
8.5	8.5	60	20	2
9	9	60	20	2
9.5	9.5	70	22	2
10	10	70	22	2
11	11	70	22	2
12	12	70	22	2
13	13	75	25	2
14	14	75	25	2
15	15	75	25	2
16	16	75	25	2
18	18	100	32	2
20	20	100	32	2

Ex. ref. Ø2 = FRC125-002.000

Ø	d	L	l	Z
3	3	55	20	2
4	4	60	20	2
5	5	60	20	2
6	6	65	24	2
8	8	80	32	2
10	10	80	32	2
12	12	100	50	2

Ex. ref. Ø3 = FRC126-003.000



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FRC

145

146

FRAISES CARBURE MONOBLOC 4 LEVRES POLYVALENTES

Hémisphériques - **Courtes ou longues**

-  Solid carbide **short or long** endmills - Ball nose - 4 flutes - Uncoated
-  Fresas esféricas **cortas o largas** MD integral - 4 labios - Sin recubrimiento
-  Frese sferiche **corte o lunghe** MD integrale - 4 taglienti - Non rivestite
-  VHM **kurze oder lange** Radiusfräser - 4 Schneiden - Unbeschichtet

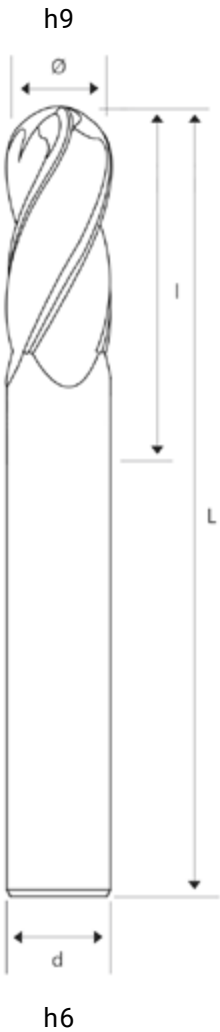


Ø	d	L	l	Z
2	2	38	8	4
2.5	2.5	38	8	4
3	3	38	12	4
3.5	3.5	40	12	4
4	4	40	12	4
4.5	4.5	50	14	4
5	5	50	14	4
5.5	5.5	50	16	4
6	6	50	16	4
7	7	60	20	4
8	8	60	20	4
10	10	70	22	4
12	12	70	22	4
14	14	75	25	4
16	16	75	25	4

Ex. ref. Ø2 = FRC145-002.000

Ø	d	L	l	Z
3	3	55	20	4
4	4	60	20	4
5	5	60	20	4
6	6	65	24	4
8	8	80	32	4
10	10	80	32	4
12	12	100	50	4

Ex. ref. Ø3 = FRC146-003.000



OUTILS D'ÉBAVURAGE CARBURE

Countersinks - Avellanadores - Svasatori - Senker (Carbide/MD/VHM)

EVC006 Outils multifonctions 10 opérations carbure monobloc 60° - Queue cyl.
Multifunctional tools 10 operations - Solid carbide - 60° - Cylindrical shank

Page 116

EVC106 Fraises à ébavurer multident carbure monobloc 60° revêtues - Queue cyl.
Multi-flutes countersinks - Coated solid carbide - 60° - Cylindrical shank

Page 117

EVC109 Fraises à ébavurer multident carbure monobloc 90° revêtues - Queue cyl.
Multi-flutes countersinks - Coated solid carbide - 90° - Cylindrical shank

Page 118

EVC110 Fraises à ébavurer multident carbure monobloc 100° revêtues - Queue cyl.
Multi-flutes countersinks - Coated solid carbide - 100° - Cylindrical shank

Page 119





OUTILS MULTIFONCTIONS 10 OPERATIONS 60° CARBURE MONOBLOC

Queue cylindrique



Solid carbide multifunction tools 60° for 10 operations - Straight shank



Herramientas multifunción MD integral 60° para 10 operaciones - Mango cilíndrico



Utensili multifunzione MD integrale 60° per 10 lavorazioni - Gambo cilindrico

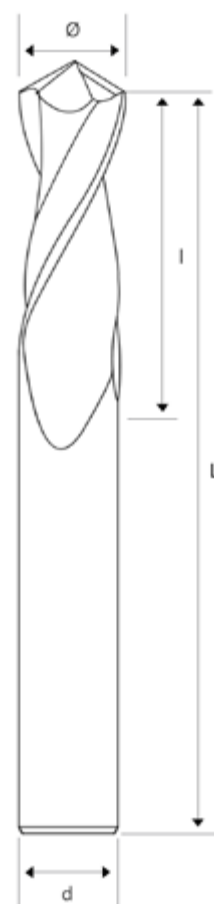


VHM Multifunktionswerkzeuge 60° für 10 Bearbeitungen - Zylinderschaft



Ø	d	L	l	Z
3	4	50	6	2
4	5	50	8	2
5	6	50	10	2
6	8	70	12	2
8	10	70	16	2
10	12	90	18	2
12	12	90	20	2
16	16	92	26	2
20	20	100	32	2

Ex. ref. Ø20 = EVC006-020.000



h6



FRAISES A EBAVURER MULTIDENTS 60° CARBURE MONOBLOC

Queue cylindrique

Revêtement pour alliages non-ferreux, alliages de Nickel ou Cobalt,
matériaux abrasifs et/ou collants



Solid carbide multicut countersinks 60° - Straight shank - Coated



Avellanadores multicorte MD integral 60° - Mango cilíndrico - Con recubrimiento



Svasatori multitaglio MD integrale 60° - Gambo cilindrico - Rivestiti

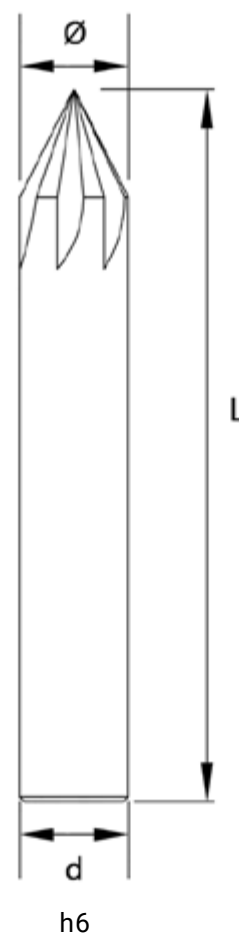


VHM mehrschneidige Kegelsenker 60° - Zylinderschaft - Beschichtet



Ø	d	L	Z
4	4	54	4
6	6	60	4
8	8	63	5
10	10	72	6
12	12	83	6
16	16	92	6

Ex. ref. Ø4 = EVC106-004.000



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**EVC
109**

FRAISES A EBAVURER MULTIDENTS 90° CARBURE MONOBLOC

Queue cylindrique

Revêtement pour alliages non-ferreux, alliages de Nickel ou Cobalt,
matériaux abrasifs et/ou collants



Solid carbide multicut countersinks 90° - Straight shank - Coated



Avellanadores multicorte MD integral 90° - Mango cilíndrico - Con recubrimiento



Svasatori multitaglio MD integrale 90° - Gambo cilindrico - Rivestiti



VHM mehrschneidige Kegelsenker 90° - Zylinderschaft - Beschichtet



**SOLID
WC**

MACH 11S

Ø	d	L	Z
4	4	54	4
6	6	60	4
8	8	63	5
10	10	72	6
12	12	83	6
16	16	92	6

Ex. ref. Ø4 = EVC109-004.000





FRAISES A EBAVURER MULTIDENTS 100° CARBURE MONOBLOC

Queue cylindrique

Revêtement pour alliages non-ferreux, alliages de Nickel ou Cobalt,
matériaux abrasifs et/ou collants



Solid carbide multicut countersinks 100° - Straight shank - Coated



Avellanadores multicorte MD integral 100° - Mango cilíndrico - Con recubrimiento



Svasatori multitaglio MD integrale 100° - Gambo cilindrico - Rivestiti



VHM mehrschneidige Kegelsenker 100° - Zylinderschaft - Beschichtet



Ø	d	L	Z
4	4	54	4
6	6	60	4
8	8	63	5
10	10	72	6
12	12	83	6
16	16	92	6

Ex. ref. Ø4 = EVC110-004.000



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BARREAUX ET EBAUCHES CARBURE MONOBLOC

Ground rods and blanks - Barras rectificadas y semielaborados - Cilindretti rettificati e grezzi - Geschliffenstäbe und rohlingestäbe (Solid carbide/MD/VHM)

EBC800	Barreaux cylindriques rectifiés carbure monobloc - Longueur 100 <i>Solid carbide cylindrical ground rods - Length 100</i>	Page 142
EBC815	Barreaux cylindriques rectifiés carbure monobloc - Longueur 150 <i>Solid carbide cylindrical ground rods - Length 150</i>	Page 143
EBC830	Barreaux cylindriques rectifiés carbure monobloc - Longueur 330 <i>Solid carbide cylindrical ground rods - Length 330</i>	Page 144
EBC600	Ebauches fraises à graver carbure monobloc - 1 plat - Série courte <i>Solid carbide blanks for engraving cutters - 1 tip - Short length</i>	Page 145
EBC610	Ebauches fraises à graver carbure monobloc - 1 plat - Longueur 100 <i>Solid carbide blanks for engraving cutters - 1 tip - Length 100</i>	Page 146
EBC620	Ebauches fraises à graver carbure monobloc - 2 plats - Longueur 100 <i>Solid carbide blanks for engraving cutters - 2 tips - Length 100</i>	Page 147





BARREAUX CYLINDRIQUES RECTIFIES
CARBURE MONOBLOC

Longueur 100



Solid carbide cylindrical ground rods - 100 mm



Barras cilíndricas macizas rectificadas MD integral - 100 mm



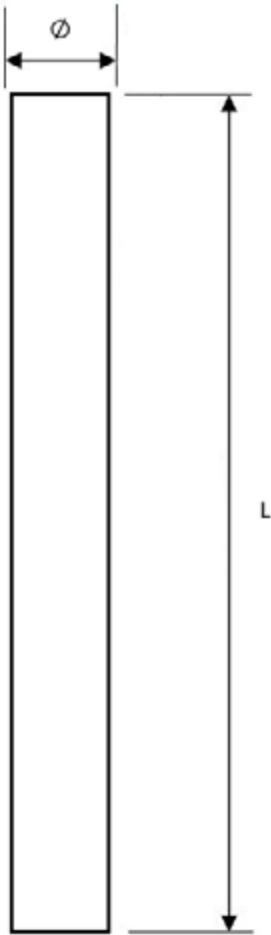
Cilindretti integrali rettificati MD integrale - 100 mm



VHM geschliffen zylindrische Vollstäbe - 100 mm



Ø	L
1	100
1.5	100
2	100
2.5	100
3	100
3.5	100
4	100
4.5	100
5	100
5.5	100
6	100
6.5	100
7	100
7.5	100
8	100
8.5	100
9	100
9.5	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
18	100
20	100



Ex. ref. Ø2 = EBC800-002.000



BARREAUX CYLINDRIQUES RECTIFIES CARBURE MONOBLOC

Longueur 150



Solid carbide cylindrical ground rods - 150 mm



Barras cilíndricas macizas rectificadas MD integral - 150 mm



Cilindretti integrali rettificati MD integrale - 150 mm

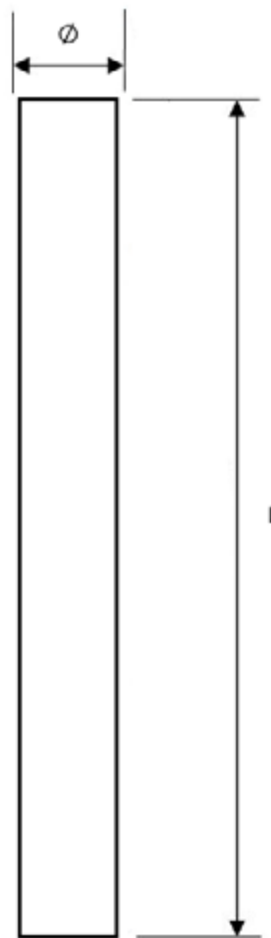


VHM geschliffen zylindrische Vollstäbe - 150 mm



Ø	L
1	150
1.5	150
2	150
2.5	150
3	150
3.5	150
4	150
4.5	150
5	150
5.5	150
6	150
6.5	150
7	150
7.5	150
8	150
8.5	150
9	150
9.5	150
10	150
11	150
12	150
13	150
14	150
15	150
16	150
18	150
20	150

Ex. ref. Ø2 = EBC815-002.000



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BARREAUX CYLINDRIQUES RECTIFIES CARBURE MONOBLOC

Longueur 330



Solid carbide cylindrical ground rods - 330 mm



Barras cilíndricas macizas rectificadas MD integral - 330 mm



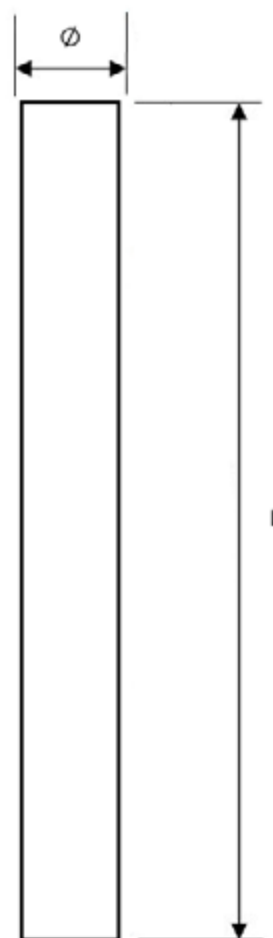
Cilindretti integrali rettificati MD integrale - 330 mm



VHM geschliffen zylindrische Vollstäbe - 330 mm



Ø	L
1	330
1.5	330
2	330
2.5	330
3	330
3.5	330
4	330
4.5	330
5	330
5.5	330
6	330
6.5	330
7	330
7.5	330
8	330
8.5	330
9	330
9.5	330
10	330
11	330
12	330
13	330
14	330
15	330
16	330
18	330
20	330



Ex. ref. Ø2 = EBC830-002.000



EBAUCHES CARBURE MONOBLOC POUR FRAISES A GRAVER

Série courte - 1 plat



Solid carbide short blanks for engraving tool - 1 side



Semielaborados cortos MD integral para fresas de grabado - 1 lado



Grezzi corti MD integrale per frese per incisione - 1 lato



VHM kurze Rohlinge für Gravierwerkzeuge - 1 Ende



Ø	L	I
2	40	3
3	50	4
4	60	6
5	60	7
6	60	8
8	75	10

Ex. ref. Ø2 = EBC600-002.000



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EBAUCHES CARBURE MONOBLOC
POUR FRAISES A GRAVER

Longueur 100 - 1 plat



Solid carbide blanks for engraving tool - 100 mm - 1 side



Semielaborados MD integral para fresas de grabado - 100 mm - 1 lado



Grezzi MD integrale per frese per incisione - 100 mm - 1 lato

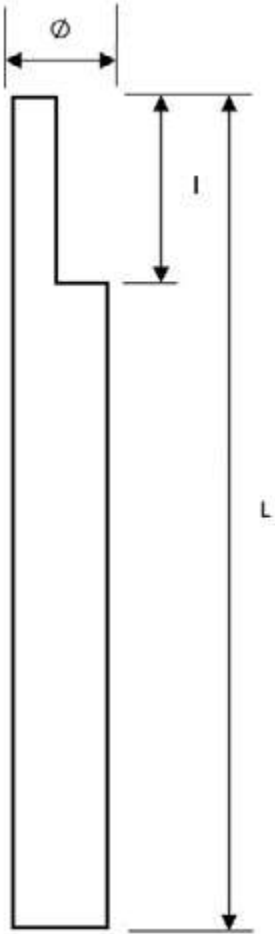


VHM Rohlinge für Gravierwerkzeuge - 100 mm - 1 Ende



Ø	L	I
2	100	3
3	100	4
4	100	6
5	100	7
6	100	8
8	100	10
10	100	12
12	100	15
14	100	18
16	100	20

Ex. ref. Ø2 = EBC610-002.000





EBAUCHES CARBURE MONOBLOC POUR FRAISES A GRAVER

Longueur 100 - 2 plats



Solid carbide blanks for engraving tool - 100 mm - 2 sides



Semielaborados MD integral para fresas de grabado - 100 mm - 2 lados



Grezzi MD integrale per frese per incisione - 100 mm - 2 lati



VHM Rohlinge für Gravierwerkzeuge - 100 mm - 2 Enden



Ø	L	I
2	100	3
3	100	4
4	100	6
5	100	7
6	100	8
8	100	10
10	100	12
12	100	15
14	100	18
16	100	20

Ex. ref. Ø2 = EBC620-002.000

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COFFRETS D'OUTILS

Sets - Juegos - Assortimenti - Sätze

Conçus et imprimés en 3D en France par Euromac, à partir de matières renouvelables.



Boxes designed by Euromac and 3D-printed in France from renewable materials.



Cajas diseñadas por Euromac e impresas en 3D en Francia.



Scatole concepite da Euromac e stampate in 3D in Francia con materiali rinnovabili.



Von Euromac hergestellt und in Frankreich mit erneuerbaren Materialien 3D-gedruckte Schachteln.



COF740-8

8 dimensions

Ø 2-3-4-5-6-8-10-12

TOLERANCE H7

+ info



COF740-30

30 dimensions

Ø 2.98-3.98-4.98-5.98-7.98-9.98

2.99-3.99-4.99-5.99-7.99-9.99

3.00-4.00-5.00-6.00-8.00-10.00

3.01-4.01-5.01-6.01-8.01-10.01

3.02-4.02-5.02-6.02-8.02-10.02

TOLERANCE 0/+0.004

+ info



COF742-8

8 dimensions

Ø 2-3-4-5-6-8-10-12

TOLERANCE H7

+ info



COF742-30

30 dimensions

Ø 2.98-3.98-4.98-5.98-7.98-9.98

2.99-3.99-4.99-5.99-7.99-9.99

3.00-4.00-5.00-6.00-8.00-10.00

3.01-4.01-5.01-6.01-8.01-10.01

3.02-4.02-5.02-6.02-8.02-10.02

TOLERANCE 0/+0.004

+ info



Exemple d'alésoir étagé spécial

- Secteur : Aéronautique
- Matière : Aluminium
- Problématique : réaliser des alésages parfaitement concentriques avec un état de surface de grande qualité (poli)
- Tolérance des longueurs d'étages : 0.03 mm

Example of a special reamer



- Application : Aeronautics
- Material : Aluminum
- Problematic : to make perfectly concentric reaming with high quality polished surface finish.
- Tolerance of steps length : 0.03 mm

We chose a step-reamer to make every diameters in one operation. This design permitted to guarantee the required geometry as well as reducing production costs and times. For surface finish, we added side cooling ducts in each step.

Notre choix s'est porté sur un alésoir étagé réalisant tous les diamètres en **une seule opération**. Cette conception a permis de garantir la géométrie recherchée, tout en maîtrisant les coûts de production et les temps d'usinage. Pour obtenir l'état de surface requis, nous avons doté cet alésoir d'une **lubrification interne avec sorties latérales à chaque étage**.



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Antivibration endmills



Coffrets d'outils
Cutting tools sets



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Speed Tools
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