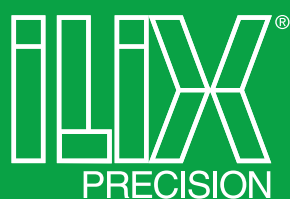


Alesatori

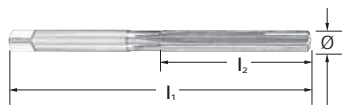
Reamers





Alesatori a mano in HSS per ottenere fori in tolleranza H7

Hand reamers made of HSS
to produce holes with H7 tolerances



Forma / Form			A	B
Tipo / Type			Taglienti diritti straight	Taglienti 7/8° LH
Esecuzione elica Cutting direction				
Materiale / Material			HSS	HSS
Ø mm	l ₁ mm	l ₂ mm	6301	6302
1,0**	37	12	●	●
1,1**	40	15	●	●
1,2**	40	15	●	●
1,3**	40	15	●	●
1,4	41	20	●	●
1,5	41	20	●	●
1,6	44	21	●	●
1,7	44	21	●	●
1,8	47	23	●	●
1,9	47	23	●	●
2,0	50	25	●	●
2,1	50	25	●	●
2,2	54	27	●	●
2,3	54	27	●	●
2,4	58	29	●	●
2,5	58	29	●	●
2,6	58	29	●	●
2,7	62	31	●	●
2,8	62	31	●	●
2,9	62	31	●	●
3,0	62	31	●	●
3,1	66	33	●	●
3,2	66	33	●	●
3,3	66	33	●	●
3,4	71	35	●	●
3,5	71	35	●	●
3,6	71	35	●	●
3,7	71	35	●	●
3,8	76	38	●	●
3,9	76	38	●	●
4,0	76	38	●	●
4,1	76	38	●	●
4,2	76	38	●	●
4,3	81	41	●	●
4,4	81	41	●	●
4,5	81	41	●	●
4,6	81	41	●	●
4,7	81	41	●	●

Forma / Form			A	B
Tipo / Type			Taglienti diritti straight	Taglienti 7/8° LH
Esecuzione elica Cutting direction				
Materiale / Material			HSS	HSS
Ø mm	l ₁ mm	l ₂ mm	6301	6302
4,8	87	44	●	●
4,9	87	44	●	●
5,0	87	44	●	●
5,1	87	44	●	●
5,2	87	44	●	●
5,3	87	44	●	●
5,4	93	47	●	●
5,5	93	47	●	●
5,6	93	47	●	●
5,7	93	47	●	●
5,8	93	47	●	●
5,9	93	47	●	●
6,0	93	47	●	●
6,1	100	50	●	●
6,2	100	50	●	●
6,3	100	50	●	●
6,4	100	50	●	●
6,5	100	50	●	●
6,6	100	50	●	●
6,7	100	50	●	●
6,8	107	54	●	●
6,9	107	54	●	●
7,0	107	54	●	●
7,1	107	54	●	●
7,2	107	54	●	●
7,3	107	54	●	●
7,4	107	54	●	●
7,5	107	54	●	●
7,6	115	58	●	●
7,7	115	58	●	●
7,8	115	58	●	●
7,9	115	58	●	●
8,0	115	58	●	●
8,1	115	58	●	●
8,2	115	58	●	●
8,3	115	58	●	●
8,4	115	58	●	●
8,5	115	58	●	●

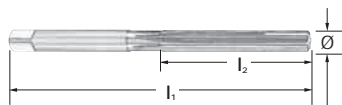
**ILIX Norm

● Utensile disponibile a magazzino / Items available ex stock



Alesatori a mano in HSS per ottenere fori in tolleranza H7

Hand reamers made of HSS
to produce holes with H7 tolerances



Forma / Form			A	B
Tipo / Type			Taglienti diritti straight	Taglienti 7/8° LH
Esecuzione elica Cutting direction				
Materiale / Material			HSS	HSS
Ø mm	l ₁ mm	l ₂ mm	6301	6302
8,6	124	62	●	●
8,7	124	62	●	●
8,8	124	62	●	●
8,9	124	62	●	●
9,0	124	62	●	●
9,1	124	62	●	●
9,2	124	62	●	●
9,3	124	62	●	●
9,4	124	62	●	●
9,5	124	62	●	●
9,6	133	66	●	●
9,7	133	66	●	●
9,8	133	66	●	●
9,9	133	66	●	●
10,0	133	66	●	●
10,1	133	66	●	-
10,2	133	66	●	-
10,3	133	66	●	-
10,4	133	66	●	-
10,5	133	66	●	●
10,6	133	66	●	-
10,7	142	71	●	-
10,8	142	71	●	-
10,9	142	71	●	-
11,0	142	71	●	●
11,1	142	71	●	-
11,2	142	71	●	-
11,3	142	71	●	-
11,4	142	71	●	-
11,5	142	71	●	●
11,6	142	71	●	-
11,7	142	71	●	-
11,8	142	71	●	-
11,9	152	76	●	-
12,0	152	76	●	●
12,5	152	76	●	-
13,0	152	76	●	-
13,5	163	81	●	-

Forma / Form			A	B
Tipo / Type			Taglienti diritti straight	Taglienti 7/8° LH
Esecuzione elica Cutting direction				
Materiale / Material			HSS	HSS
Ø mm	l ₁ mm	l ₂ mm	6301	6302
14,0	163	81	●	●
14,5	163	81	●	●
15,0	163	81	●	●
15,5	175	87	●	●
16,0	175	87	●	●
16,5	175	87	●	●
17,0	175	87	●	●
17,5	188	93	●	●
18,0	188	93	●	●
18,5	188	93	●	●
19,0	188	93	●	●
19,5	201	100	●	●
20,0	201	100	●	●
20,5	201	100	●	●
21,0	201	100	●	●
21,5	201	100	●	●
22,0	215	107	●	●
22,5	215	107	●	●
23,0	215	107	●	●
23,5	215	107	●	●
24,0	231	115	●	●
24,5	231	115	-	●
25,0	231	115	●	●
25,5	231	115	●	●
26,0	231	115	●	●
26,5	231	115	●	●
27,0	247	124	●	●
27,5	247	124	-	●
28,0	247	124	●	●
28,5	247	124	●	●
29,0	247	124	●	●
29,5	247	124	●	●
30,0	247	124	●	■
31,0	265	133	●	●
32,0	265	133	●	●
33,0	265	133	●	●
34,0	284	142	●	●
35,0	284	142	●	●

● Utensile disponibile a magazzino / Items available ex stock ■ Fino ad esaurimento scorte / discontinued items

DIN 219 A/B/C

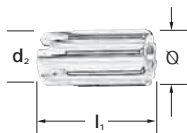


Alesatori a manicotto in HSS

Foro conicità 1:30 per ottenere fori in tolleranza h7

Shell reamers, made of HSS

taper hole 1 : 30 to produce holes with H7 tolerance



Forma / Form			A	B	C
Tipo / Type			Taglienti diritti straight	Taglienti 7/8° LH	Taglienti 45° LH
Esecuzione elica Cutting direction					
Materiale / Material			HSS	HSS	HSS
Ø mm	l ₁ mm	foro interno / bore Ø d ₂	6361	6360	6362
25	45	13	●	●	●
26	45	13	●	●	●
27	45	13	●	●	●
28	45	13	●	●	●
29	45	13	●	●	●
30	45	13	●	●	●
31	50	16	●	●	●
32	50	16	●	●	●
33	50	16	●	●	●
34	50	16	●	●	●
35	50	16	●	●	●
36	56	19	●	●	●
37	56	19	●	●	●
38	56	19	●	●	●
39	56	19	●	●	●
40	56	19	●	●	●
42	56	19	●	●	●
44	63	22	●	●	●
45	63	22	●	●	●
46	63	22	●	●	●
47	63	22	●	●	●
48	63	22	●	●	●

Forma / Form			A	B	C
Tipo / Type			Taglienti diritti straight	Taglienti 7/8° LH	Taglienti 45° LH
Esecuzione elica Cutting direction					
Materiale / Material			HSS	HSS	HSS
Ø mm	l ₁ mm	foro interno / bore Ø d ₂	6361	6360	6362
50	63	22	●	●	●
52	71	27	●	●	●
55	71	27	●	●	●
58	71	27	●	●	●
60	71	27	●	●	●
62	80	32	●	●	●
65	80	32	●	●	●
68	80	32	●	●	●
70	80	32	●	●	●
72	90	40	●	●	●
75	90	40	●	●	●
78	90	40	●	●	●
80	90	40	●	●	●
82	90	40	●	●	●
85	90	40	●	●	●
88	100	50	●	●	●
90	100	50	●	●	●
92	100	50	●	●	●
95	100	50	●	●	●
98	100	50	●	●	●
100	100	50	●	●	●

Diametro Diameter range	6361 N. taglienti No. of cutting lips	6360 N. taglienti No. of cutting lips	6362 N. taglienti No. of cutting lips
25,0 mm - 32,0 mm	10	10	6
33,0 mm - 44,0 mm	12	12	6
45,0 mm - 58,0 mm	14	14	6
60,0 mm	16	16	6
62,0 mm - 78,0 mm	16	16	8
80,0 mm - 98,0 mm	18	18	8
100,0 mm	18	18	10

Per misure intermedie prezzi a richiesta / Deviating sizes prices upon request

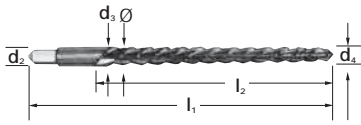
● Utensile disponibile a magazzino / Items available ex stock



Norme francesi / French standard

Alesatori per spine coniche con attacco cilindrico, in HSS solo per uso a macchina

High spiral fluted taper pin reamers with straight shank, made of HSS for machine use only



Forma / Form							NF
Tipo / Type							Taglienti 45° LH
Esecuzione elica Cutting direction							
Materiale / Material							HSS
Ø mm	l ₁ mm	l ₂ mm	d ₃ mm	d ₂ mm	d ₄ mm	6319	
1,0	45	20	1,1	1,1	0,7	■	
3,5	65	45	3,6	3,6	2,7	●	
4,0	70	50	4,1	4,1	3,1	●	
4,5	80	55	4,6	4,6	3,5	■	

Forma / Form							NF
Tipo / Type							Taglienti 45° LH
Esecuzione elica Cutting direction							
Materiale / Material							HSS
Ø mm	l ₁ mm	l ₂ mm	d ₃ mm	d ₂ mm	d ₄ mm	6319	

Diametro Diameter range	6319 N. taglienti No. of cutting lips
1,0 mm - 5,0 mm	2
5,0 mm - 10,0 mm	3

● Utensile disponibile a magazzino / Items available ex stock ■ Fino ad esaurimento scorte / discontinued items

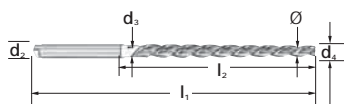


Alesatori a macchina forte torsione per spine coniche con attacco cilindrico, in HSS

Conicità 1:50 per ottenere fori per spine coniche in DIN 1 solo per uso a macchina

High spiral fluted taper pin reamers with straight shank, made of HSS

taper 1 : 50, to produce holes for taper pins acc. to DIN 1, for machine use only



Forma / Form							-
Tipo / Type							Taglienti 45° LH
Esecuzione elica Cutting direction							
Materiale / Material							HSS
Ø mm	l ₁ mm	l ₂ mm	d ₂ mm	d ₃ mm	d ₄ mm	6313	
1,0	60	33	1,40	1,52	0,8	●	
1,25	70	42	1,80	1,97	1,05	●	
1,5	70	42	2,10	2,22	1,3	●	
1,6	70	42	2,10	2,22	1,3	●	
2,0	86	48	3,15	2,86	1,9	●	
2,5	86	48	3,15	3,36	2,4	●	
3,0	100	58	4,00	4,06	2,9	●	
4,0	112	68	5,00	5,26	3,9	●	
5,0	122	73	6,30	6,36	4,9	●	
6,0	160	105	8,00	8,00	5,9	●	
8,0	207	145	10,00	10,80	7,9	●	
10,0	245	175	12,50	13,40	9,9	●	
12,0	290	210	16,00	16,00	11,8	●	

Forma / Form							-
Tipo / Type							Taglienti 45° LH
Esecuzione elica Cutting direction							
Materiale / Material							HSS
Ø mm	l ₁ mm	l ₂ mm	d ₂ mm	d ₃ mm	d ₄ mm	6313	

Per spine coniche secondo DIN 1 - 258 - 1447 - 7977 - 7978

For taper pin according to DIN 1 - 258 - 1447 - 7977 - 7978

Diametri Diameter range	6313 N. taglienti No. of cutting lips
1,0 mm - 5,0 mm	2
6,0 mm - 10,0 mm	3
12,0 mm	4

● Utensile disponibile a magazzino

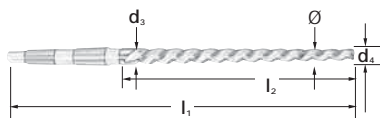


Alesatori per spine coniche con attacco conico, in HSS

Conicità 1:50 - per ottenere fori per spine coniche in DIN 1 solo per uso a macchina

High spiral fluted taper pin reamers with Morse taper shank, made of HSS

taper 1 : 50, to produce holes for taper pins acc. to DIN 1, for machine use only



Forma / Form							-
Tipo / Type							Taglienti 45° LH
Esecuzione elica Cutting direction							
Materiale / Material							HSS
Ø mm	l ₁ mm	l ₂ mm	d ₄ mm	d ₃ mm	CM MT	6314	
5	155	73	4,9	6,36	1	●	
6	187	105	5,9	8,00	1	●	
8	227	145	7,9	10,80	1	●	
10	257	175	9,9	13,40	1	●	
12	315	210	11,8	16,00	2	●	
16	335	230	15,8	20,40	2	●	
20	377	250	19,8	24,80	3	●	

Forma / Form							-
Tipo / Type							Taglienti 45° LH
Esecuzione elica Cutting direction							
Materiale / Material							HSS
Ø mm	l ₁ mm	l ₂ mm	d ₄ mm	d ₃ mm	CM MT	6314	

Diametro Diameter range	6314 N. taglienti No. of cutting lips
3,0 mm - 6,0 mm	2
6,0 mm - 10,0 mm	3
12,0 mm - 20,0 mm	4

● Utensile disponibile a magazzino

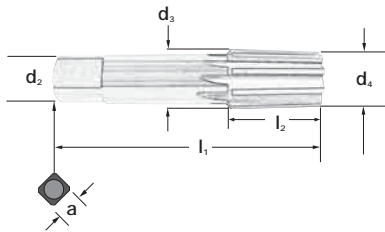


Alesatori conici con attacco cilindrico, in HSS conico 1 : 16

Taper reamers with straight shank, made of HSS taper 1 : 16

Preforo **NPT - NPTF**

Taglienti diritti / Straight Flutes



Forma / Form

Tipo / Type

Esecuzione elica
Cutting direction

Materiale / Material

-

Taglienti
diritti
straight



HSS

Ø mm	l ₁ mm	l ₂ mm	d ₂ mm	d ₃ mm	d ₄ mm	a h11	Z	6310
1/16"	70	17	6	6,998	5,935	4,5	6	●
1/8"	70	17	8	9,105	8,042	6,3	6	●
1/4"	80	27	11	11,996	10,308	9,0	6	●
3/8"	85	27	12	15,416	13,728	10,0	8	●
1/2"	95	35	16	19,126	16,938	12,5	8	●
3/4"	105	35	20	24,411	22,253	16,0	10	●
1"	130	43	25	30,684	27,996	20,0	10	●
1 1/4"	140	44	32	39,471	36,721	25,0	12	●
1 1/2"	150	45	36	45,604	42,791	28,0	12	●
2"	160	46	48	57,678	54,803	35,5	14	●

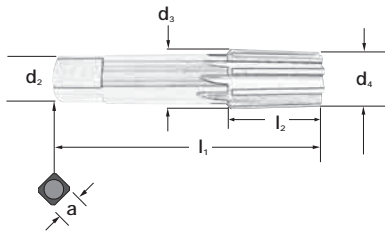


Alesatori conici con attacco cilindrico, in HSS conico 1 : 16

Taper reamers with straight shank, made of HSS taper 1 : 16

Preforo **NPT - NPTF**

Taglienti elicoidali / Spiral Flutes



Forma / Form

Tipo / Type

Esecuzione elica
Cutting direction

Materiale / Material

-

Taglienti
7-8°
LH



HSS

Ø mm	l ₁ mm	l ₂ mm	d ₂ mm	d ₃ mm	d ₄ mm	a h11	Z	6311
1/16"	70	17	6	6,998	5,935	4,5	6	●
1/8"	70	17	8	9,105	8,042	6,3	6	●
1/4"	80	27	11	11,996	10,308	9,0	6	●
3/8"	85	27	12	15,416	13,728	10,0	8	●
1/2"	95	35	16	19,126	16,938	12,5	8	●
3/4"	105	35	20	24,411	22,253	16,0	10	●
1"	130	43	25	30,684	27,996	20,0	10	●
1 1/4"	140	44	32	39,471	36,721	25,0	12	●
1 1/2"	150	45	36	45,604	42,791	28,0	12	●
2"	160	46	48	57,678	54,803	35,5	14	●



Alesatori conici con attacco cilindrico, in HSS

Conicità 1:10

Taper reamers with straight shank, made of HSS
taper 1 : 10



Forma / Form						-
Tipo / Type						Taglienti diritti straight
Esecuzione elic Cutting direction						
Materiale / Material						HSS
Ø mm	l ₁ mm	l ₂ mm	d ₂ mm	d ₃ mm	6308	
3	100	70	6,3	10	✓	
5	140	100	10,0	15	✓	
10	195	150	16,0	25	✓	
15	250	200	22,4	35	✓	
23	275	220	31,5	45	✓	
30	310	250	40,0	55	✓	
37	345	280	45,0	65	✓	
45	370	300	45,0	75	✓	

Forma / Form						-
Tipo / Type						Taglienti diritti straight
Esecuzione elic Cutting direction						
Materiale / Material						HSS
Ø mm	l ₁ mm	l ₂ mm	d ₂ mm	d ₃ mm	6308	

✓ Su richiesta / Upon request



Alesatori per cono morse con attacco cilindrico, in HSS

Per finitura di cono morse secondo DIN 228

Morse taper socket reamers, made of HSS finishing for taper sleeves acc. to DIN 228



Forma / Form			C	-
Forma / Form			C	-
Tipo / Type			Taglienti diritti straight	Taglienti 7-8° LH
Esecuzione elica Cutting direction				
Materiale / Material			HSS	HSS
CM MT	L ₁ mm	L ₂ mm	6317	6312
0	93	61	●	●
1	102	66	●	●
2	121	79	●	●
3	146	96	●	●
4	146	119	●	●
5	222	150	●	●
6	300	208	●	●

Forma / Form			C	-
Forma / Form			C	-
Tipo / Type			Taglienti diritti straight	Taglienti 7-8° LH
Esecuzione elica Cutting direction				
Materiale / Material			HSS	HSS
CM MT	L ₁ mm	L ₂ mm	6317	6312

Diametri Diameter range		6317 N. taglienti No. of cutting lips	6312 N. taglienti No. of cutting lips
CM/MT	0 ÷ 1	6	6
CM/MT	2	8	8
CM/MT	3	10	10
CM/MT	4	12	12
CM/MT	5	14	14
CM/MT	6	16	16

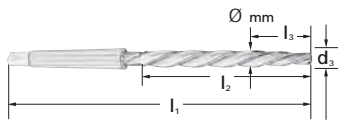
● Utensile disponibile a magazzino / Items available ex stock



Alesatori elicoidali per fori da chiodi con attacco conico, in HSS

Conicità oltre 1/3 della lunghezza del tagliente

Helicoidal fluted bridge reamers with Morse taper shank, made of HSS tapered over 1/3 of cutting length, quick spiral flutes



Forma / Form							-
Tipo / Type							Taglienti 25° LH
Esecuzione elica Cutting direction							
Materiale / Material							HSS
Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₃ mm	CM MT	6355	
6,4	151	75	19	4,6	1	●	
7,4	156	80	22	5,3	1	●	
8,4	161	85	25	6,0	1	●	
9,5	166	90	27	6,9	1	●	
10,0	171	95	30	7,1	1	●	
11,0	176	100	33	7,8	1	●	
12,0	199	105	39	8,2	2	●	
13,0	199	105	39	9,2	2	●	
14,0	209	115	42	9,9	2	●	
15,0	219	125	45	10,6	2	●	
16,0	229	135	48	11,4	2	●	
17,0	251	135	51	12,1	3	●	
18,0	261	145	58	12,4	3	●	
19,0	261	145	58	13,4	3	●	
20,0	271	155	62	14,0	3	●	
21,0	271	155	62	15,0	3	●	
22,0	281	165	66	15,6	3	●	
23,0	281	165	66	16,6	3	●	
24,0	296	180	72	17,0	3	●	
25,0	296	180	72	18,0	3	●	

Forma / Form							-
Tipo / Type							Taglienti 25° LH
Esecuzione elica Cutting direction							
Materiale / Material							HSS
Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₃ mm	CM MT	6355	
26,0	296	180	72	19,0	3	●	
27,0	311	195	78	19,4	3	●	
28,0	311	195	78	20,4	3	●	
29,0	311	195	78	21,4	3	●	
30,0	311	195	78	22,4	3	●	
31,0	326	210	84	22,8	3	●	
32,0	354	210	84	23,8	4	●	

Diametri Diameter range	6355 N. taglienti No. of cutting lips
6,4 mm - 24,0 mm	4
25,0 mm - 32,0 mm	5

Per misure intermedie prezzi a richiesta / Deviating sizes prices upon request

● Utensile disponibile a magazzino / Items available ex stock