


SERIE AL

ALESATORI CILINDRICI A MANO E A MACCHINA
CYLINDER REAMERS

	COD.	PAG.
	AL0	123
	AL6	124
	AL7	125
	AL8	126
	AL9	127
	AL10	128

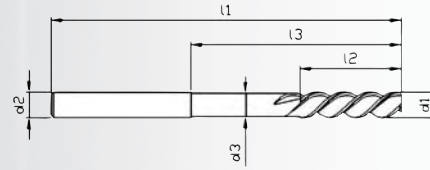
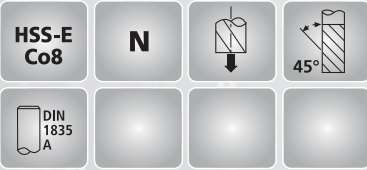
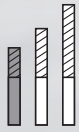
ALESATORI CILINDRICI • SERIE NORMALE

ALO


 Taglio discendente elica 45° sinistra - Codolo cilindrico
 CYLINDER REAMERS - Left-hand 45° helical teeth - Straight shank
 ALÉSQUIRES À CYLINDRES - Denture hélicoïdale à 45° à gauche - Queue cylindrique
 MASCHINEN - REIBAHLEN - 45° links schrägverzahnt - Zylinderschaft
 ESCARIADORES CILÍNDRICOS - Labios hélice izquierda 45° - Mango cilíndrico
 ESCARIADORES CILÍNDRICOS - Três navalhas hélice esquerda 45° - Encabadouro cilíndrico

**SERIE
AL**

NORM.

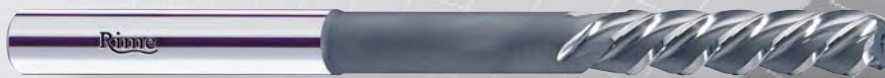


UNI
DIN 212E
ISO 521

CODE	d1 mm H7	l2 mm	l1 mm	l3 mm	d2 mm h6	d3 mm	Z	Co 8% €
AL0/01	2	11	49	24	2	1.9	3	22,70
AL0/02	2.5	14	57	29	2.5	2.4	3	25,78
AL0/03	3	15	61	33	3	2.9	3	28,32
AL0/04	3.5	18	70	40	3.5	3.4	3	28,87
AL0/05	4	19	75	43	4	3.7	3	28,87
AL0/06	4.5	21	80	45	4.5	4.2	3	29,52
AL0/07	5	23	86	51	5	4.7	3	29,52
AL0/08	5.5	26	93	55	5.5	5.2	3	30,07
AL0/09	6	26	93	55	6	5.6	3	29,52
AL0/10	6.5	28	101	61	6.5	6.1	3	33,83
AL0/11	7	31	109	67	7	6.6	3	35,58
AL0/12	8	33	117	72	8	7.6	3	35,03
AL0/13	9	36	125	75	9	8.4	3	37,45
AL0/14	10	38	133	83	10	9.4	4	38,12
AL0/15	11	41	142	90	11	10.3	4	44,84
AL0/16	12	44	151	96	12	11.3	4	44,29
AL0/17	13	44	151	96	13	12.2	4	51,00
AL0/18	14	47	160	100	14	12.8	4	49,80
AL0/19	15	50	162	102	15	13.8	4	52,88
AL0/20	16	52	170	107	16	14.8	4	56,51

Diametri decimali e tolleranze diverse da H7 si forniscono a richiesta
 Decimal diameter and different tolerance from H7 upon requirements


INDEX

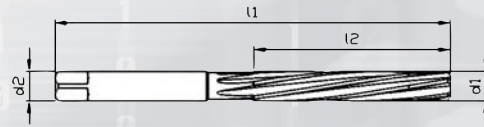
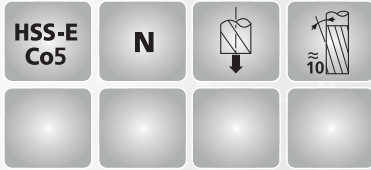
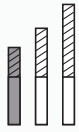


ALESATORI A MANO • SERIE NORMALE

SERIE
AL

AL6


 Denti elicoidali sinistri taglio destro - Codolo cilindrico con quadro - Per fori cilindrici
 HAND REAMERS - Left-hand helical teeth, right-hand cutting - Straight shank with square - For parallel holes
 ALÉSQUIRES À MAIN - Denture hélicoïdale à gauche, coupe à droite - Queue cylindrique carrée - Pour trous cylindriques
 HAND - REIBAHLEN - Spiralgenutet, rechtsschneidend, Linksdraht Zylinderschaft mit Vierkantstab - Für zylindrische Bohrungen
 ESCARIADORES A MANO - Labios helicoidales izquierda, cortante derecho - Mango cilíndrico con cuadro - Para agujeros cilíndricos
 ESCARIADORES A MANO - Navalhas helicoidales esquerda, cortante direito - Encabadouro cilíndrico con cuadro - Para agujeros cilíndricos



NORM.

UNI 6852
DIN 206B
ISO 236/1



INDEX

CODE	d1 mm H7	l2 mm	l1 mm	d2 mm h6	Z	Co 5% €
AL6/00	2	31	62	3	4	26,68
AL6/01	3	31	62	3	4	26,68
AL6/02	4	38	76	4	5	25,96
AL6/03	5	44	87	5	5	27,30
AL6/04	6	47	93	6	5	28,64
AL6/05	7	54	107	7	6	32,08
AL6/06	8	58	115	8	6	32,80
AL6/07	9	62	124	9	6	36,85
AL6/08	10	66	133	10	6	38,92
AL6/09	11	71	142	11	6	45,78
AL6/10	12	76	152	12	6	48,48
AL6/11	13	76	152	13	6	62,18
AL6/12	14	81	163	14	6	64,14
AL6/13	15	81	163	15	8	70,99
AL6/14	16	87	175	16	8	75,15
AL6/15	17	87	175	17	8	81,89
AL6/16	18	93	188	18	8	86,05
AL6/17	19	93	188	19	8	97,68
AL6/18	20	100	201	20	8	101,11



ALESATORI A MACCHINA • SERIE EXTRA-LUNGA

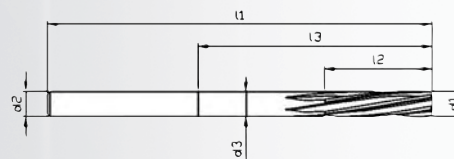
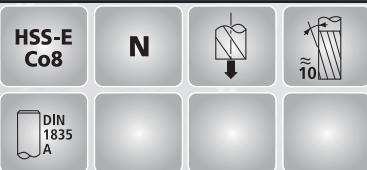
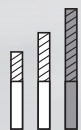
AL7


 Denti elicoidali sinistri taglio destro - Codolo cilindrico
 MACHINE REAMERS, EXTRA-LONG TYPE - Left-hand helical teeth, right-hand cutting - Straight shank
 ALESOIRS POUR MACHINES, TYP EXTRA LONG - Denture hélicoïdale à gauche, coupe à droite - Queue cylindrique
 MASCHINEN - REIBAHLEN, EXTRA LANGE AUSFÜHRUNG - Spiralgenutet, rechtsschneidend, Linksdrill - Zylinderschaft
 ESCARIADORES A MAQUINA - Labios helicoidales izquierda, cortante derecho - Mango cilíndrico

 ESCARIADORES A MANO - Navalhas helicoidais esquerda, cortante direito - Encabadouro cilíndrico

SERIE
AL

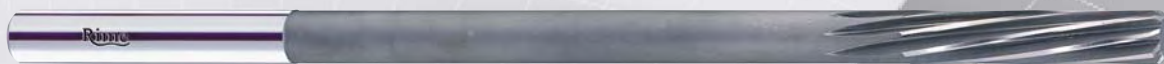
NORM.

UNI
DIN 212D
ISO 521



CODE	d1 mm H7	l2 mm	l1 mm	l3 mm	d2 mm h6	d3 mm	Z	Co 8% €
AL7/01	2	18	110	75	2	1.9	4	42,96
AL7/02	2.5	20	120	80	2.5	2.4	4	40,54
AL7/03	3	20	120	80	3	2.9	4	38,67
AL7/04	3.5	30	150	110	3.5	3.4	6	50,35
AL7/05	4	30	150	110	4	3.9	6	45,50
AL7/06	4.5	35	180	135	4.5	4.4	6	54,65
AL7/07	5	35	180	135	5	4.9	6	50,35
AL7/08	5.5	40	200	150	5.5	5.4	6	58,94
AL7/09	6	40	200	150	6	5.9	6	55,31
AL7/10	6.5	45	200	150	6.5	6.4	6	58,94
AL7/11	7	45	200	150	7	6.9	6	64,56
AL7/12	8	45	200	150	8	7.9	6	62,02
AL7/13	9	50	220	160	9	8.9	6	72,49
AL7/14	10	50	220	160	10	9.8	6	68,19
AL7/15	11	55	250	190	11	10.8	6	72,49
AL7/16	12	55	250	190	12	11.8	6	73,15







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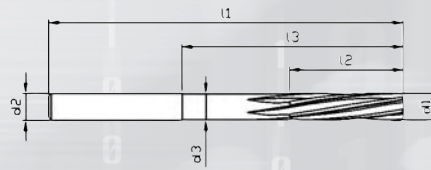
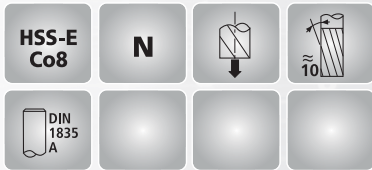
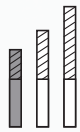


ALESATORI A MACCHINA • SERIE NORMALE

SERIE
AL

AL8


 Denti elicoidali sinistri taglio destro - Codolo cilindrico - Per fori cilindrici

 MACHINE REAMERS - Left-hand helical teeth, right-hand cutting - Straight shank. For parallel holes

 ALÉSIOIRS POUR MACHINES - Denture hélicoïdale à gauche, coupe à droite - Queue cylindrique. Pour trous cylindriques

 MASCHINEN - REIBAHLEN - Spiralgenutet, rechtsschneidend, Linksdraht - Zylinderschaft. Für zylindrische Bohrungen

 ESCARIADORES A MÁQUINA - Labios helicoidales izquierda, cortante derecho - Mango cilíndrico - Para agujeros cilíndricos

 ESCARIADORES A MÁQUINA - Quatro navalhas helicoidais esquerda, cortante direito - Encabadouro cilíndrico - Para agujeros cilíndricos



NORM.

UNI 6853
DIN 212D
ISO 521

INDEX







CODE	d1 mm H7	l2 mm	l1 mm	l3 mm	d2 mm h6	d3 mm	Z	Co 8% €
AL8/01	2	11	49	24	2	1.9	5	17,85
AL8/02	2.5	14	57	29	2.5	2.4	5	19,72
AL8/03	3	15	61	33	3	2.9	5	20,27
AL8/04	3.5	18	70	39	3.5	3.4	5	21,48
AL8/05	4	19	75	43	4	3.7	5	22,15
AL8/06	4.5	21	80	45	4.5	4.2	5	24,01
AL8/07	5	23	86	51	5	4.7	5	24,57
AL8/08	5.5	26	93	55	5.5	5.2	6	25,23
AL8/09	6	26	93	55	6	5.6	6	26,44
AL8/10	6.5	28	101	61	6.5	6.1	6	27,66
AL8/11	7	31	109	67	7	6.6	6	28,32
AL8/12	8	33	117	72	8	7.6	6	29,52
AL8/13	9	36	125	75	9	8.4	6	31,95
AL8/14	10	38	133	83	10	9.4	6	35,03
AL8/15	11	41	142	90	11	10.3	8	36,24
AL8/16	12	44	151	96	12	11.3	8	38,67
AL8/17	13	44	151	96	13	12.2	8	40,54
AL8/18	14	47	160	100	14	12.8	8	44,84
AL8/19	15	50	162	102	15	13.8	8	46,71
AL8/20	16	52	170	107	16	14.8	8	49,14

Diametri decimali e tolleranze diverse da H7 si forniscono a richiesta
 Decimal diameter and different tolerance from H7 upon requirements



ALESATORI A MACCHINA TIPO MANICOTTO

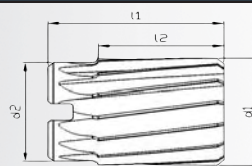
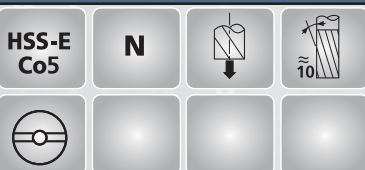
AL9

 Foro conico 1:30 - Dentatura elicoidale 10°
 SHELL MACHINE REAMERS - 1:30 taper hole - 10° helical teeth
 ALÉSODIRS CREUX - Alésage conique 1:30 - Denture hélicoïdale 10°
 AUFSTECK - REIBAHLEN - Kegelbohrung 1:30 - 10° schrägverzahnt
 ESCARIADORES A MÁQUINA TIPO MANICOTTO - Agujero cónico 1:30 - Labios helicoidales 10°
 ESCARIADORES A MAQUINA TIPO MANICOTTO - Agujero conico 1:30 - Navalhas helicoidales 10°

SERIE
AL

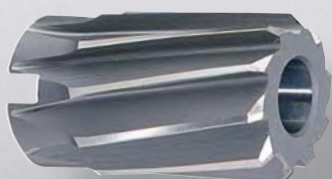
NORM.

UNI 6855
 DIN 219B
 ISO 2402



CODE	d1 mm H7	l2 mm	l1 mm	d2 mm	d foro mm conicità 1:30	Z	Co 5% €
AL9/01	24	32	45	22	13	10	83,75
AL9/02	25	32	45	23	13	10	86,34
AL9/03	26	32	45	24	13	10	87,63
AL9/04	27	32	45	25	13	10	92,21
AL9/05	28	32	45	26	13	10	92,21
AL9/06	29	32	45	27	13	10	96,19
AL9/07	30	32	45	28	13	10	96,19
AL9/08	31	36	50	28	16	10	105,34
AL9/09	32	36	50	29	16	10	105,34
AL9/10	33	36	50	30	16	10	109,92
AL9/11	34	36	50	31	16	10	109,92
AL9/12	35	36	50	32	16	10	111,90
AL9/13	36	40	56	33	19	12	126,34
AL9/14	37	40	56	34	19	12	128,21
AL9/15	38	40	56	35	19	12	128,21
AL9/16	39	40	56	36	19	12	140,06
AL9/17	40	40	56	37	19	12	140,06
AL9/18	42	40	56	39	19	12	147,21
AL9/19	44	45	63	40	22	12	160,94
AL9/20	45	45	63	41	22	12	163,52
AL9/21	46	45	63	42	22	14	168,09
AL9/22	48	45	63	44	22	14	175,36
AL9/23	49	45	63	45	22	14	181,94
AL9/24	50	45	63	46	22	14	181,94
AL9/25	52	50	71	48	27	14	202,23
AL9/26	55	50	71	51	27	14	213,96
AL9/27	58	50	71	54	27	14	226,98
AL9/28	60	50	71	56	27	16	236,83


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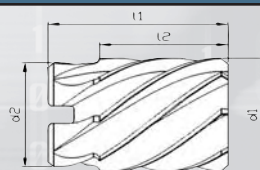
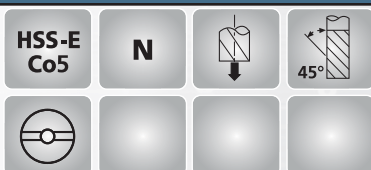


ALESATORI A MACCHINA TIPO MANICOTTO

**SERIE
AL**

AL10


 Foro conico 1:30 - Dentatura elicoidale discendente 45°
 SHELL MACHINE REAMERS - 1:30 taper hole - 45° helical teeth
 ALÉSOIRS CREUX - Alésage conique 1:30 - Denture hélicoïdale 45°
 AUFSTECK - REIBAHLEN - Kegelbohrung 1:30 - 45° aufsteckverzahnt
 ESCARIADORES A MÁQUINA TIPO MANICOTTO - Agujero conico 1:30 - Labios 45°
 ESCARIADORES A MAQUINA TIPO MANICOTTO - Agujero conico 1:30 - Labios 45°



NORM.

UNI 6855
 DIN 219
 ISO 2402

INDEX

CODE	d1 mm H7	l2 mm	l1 mm	d2 mm	d foro mm conicità 1:30	Z	Co 5% €
AL10/01	24	32	45	22	13	5	83,75
AL10/02	25	32	45	23	13	5	85,76
AL10/03	26	32	45	24	13	5	87,63
AL10/04	27	32	45	25	13	5	92,21
AL10/05	28	32	45	26	13	5	94,19
AL10/06	29	32	45	27	13	6	96,90
AL10/07	30	32	45	28	13	6	96,90
AL10/08	31	36	50	28	16	6	98,77
AL10/09	32	36	50	29	16	6	98,77
AL10/10	33	36	50	30	16	7	105,34
AL10/11	34	36	50	31	16	7	105,34
AL10/12	35	36	50	32	16	7	106,63
AL10/13	36	40	56	33	19	8	123,05
AL10/14	37	40	56	34	19	8	126,34
AL10/15	38	40	56	35	19	8	126,34
AL10/16	39	40	56	36	19	8	136,78
AL10/17	40	40	56	37	19	8	136,78
AL10/18	42	40	56	39	19	8	142,65
AL10/19	44	45	63	40	22	8	153,79
AL10/20	45	45	63	41	22	8	161,64
AL10/21	46	45	63	42	22	8	165,52
AL10/22	48	45	63	44	22	8	172,09
AL10/23	49	45	63	45	22	8	178,65
AL10/24	50	45	63	46	22	8	178,65
AL10/25	52	50	71	48	27	8	198,24
AL10/26	55	50	71	51	27	8	218,53
AL10/27	58	50	71	54	27	10	227,69
AL10/28	60	50	71	56	27	10	238,12

Diametri decimali e tolleranze diverse da H7 si forniscono a richiesta
 Decimal diameter and different tolerance from H7 upon requirements

