

BLUE-MASTER®
by celesa

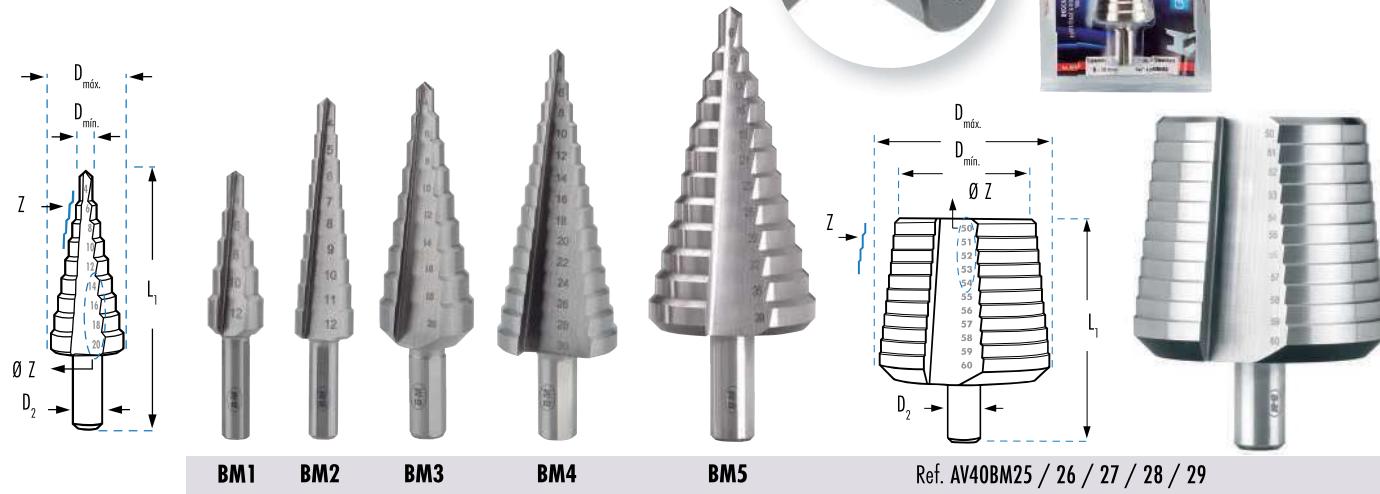


AVELLANADORES

BROCAS ESCALONADAS DE CANALES RECTOS HSS



Ref. AV40



AV40

	D _{min.} mm	D _{max.} mm	D ₂ mm	L ₁ mm	Z	Ø Z mm menor-mayor	HSS €	TiN €
AV40BM1B	4,0	12,0	6,0	65	5	4-6-8-10-12	40,72	64,25
AV40BM2B	4,0	12,0	6,0	65	9	4-5-6-7-8-9-10-11-12	41,77	64,62
AV40BM3B	4,0	20,0	8,0	69	9	4-6-8-10-12-14-16-18-20	53,55	82,48
AV40BM4B	4,0	30,0	10,0	96	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	87,84	133,90
AV40BM14	4,0	39,0	10,0	107	13	4-6-9-12-15-18-21-24-27-30-33-36-39	217,94	336,55
AV40BM16B	5,0	28,0	10,0	69	7	5-8,8-11,8-15,3-19-24,5-28	101,09	159,09
AV40BM35B	5,0	35,0	13,0	80	13	5-7-10-12-15-17-20-22-25-27-30-32-35	130,87	190,28
AV40BM11B	6,0	25,0	10,0	65	7	6-9-12-16-20-22,50-25	82,55	111,11
AV40BM10B	6,0	26,7	10,0	75	8	6-9-11,40-14-17,25-19-21,25-26,75	160,73	252,93
AV40BM17B	6,0	30,5	10,0	80	9	6-9-12,5-15,2-18,6-20,4-22,5-28,3-30,5	170,65	268,53
AV40BM12B	6,0	32,0	10,0	75	9	6-9-12-16-20-22,5-25-28,5-32	116,51	140,22
AV40BM18B	6,0	37,0	10,0	100	12	6-9-12,5-15,2-18,6-20,4-22,5-26-28,3-30,5-34-37	189,65	293,96
AV40BM5B	6,0	38,0	10,0	96	12	6-9-13-16-19-21-23-26-29-32-35-38	204,62	271,25
AV40BM13	6,0	40,0	13,0	105	16	6-11-17-23-29-30-31-32-33-34-35-36-37-38-39-40	282,17	319,36
AV40BM15B	6,5	32,5	10,0	79	9	6,50-8,50-10,50-12,50-16,50-20,50-25,50-29,50-32,50	134,90	189,06
AV40BM20	6,5	40,5	10,0	96	11	6,50-8,50-10,50-12,50-16,50-20,50-25,50-29,32,50-36,50-40,50	211,49	332,81
AV40BM21B	7,0	20,0	10,0	80	12	7-10-11-12-13-14-15-16-17-18-19-20	84,62	133,16
AV40BM22B	10,0	30,0	13,0	83	12	10-20-21-22-23-24-25-26-27-28-29-30	132,46	207,81
AV40BM25B	12,0	20,0	8,0	66	9	12-13-14-15-16-17-18-19-20	78,46	105,01
AV40BM26B	20,0	30,0	10,0	78	11	20-21-22-23-24-25-26-27-28-29-30	114,45	161,23
AV40BM27	30,0	40,0	10,0	78	11	30-31-32-33-34-35-36-37-38-39-40	171,42	220,70
AV40BM28	40,0	50,0	13,0	85	11	40-41-42-43-44-45-46-47-48-49-50	245,06	341,55
AV40BM29	50,0	60,0	13,0	85	11	50-51-52-53-54-55-56-57-58-59-60	308,77	383,55

PARA PASAR TUBERÍAS ROSCA GAS

AV40BM6B	6,0	32,0	10,0	75	8	6-9-11,20(1/8)-14,50 (1/4)-18,20 (3/8)-22,30 (1/2)-27,90 (3/4)-32	120,88	165,71
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PARA REMACHES CIEGOS M3 - M4 - M5 - M6 Y M7

AV40BM7B	4,8	10,6	6,0	54	5	4,80-6,40-7,20-9,60-10,65	39,39	56,20
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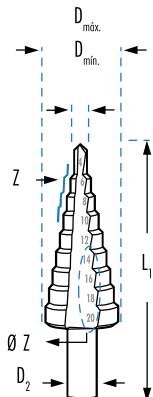
PARA CONDUCCIONES ELÉCTRICAS (ANTIGUA Y NUEVA NORMA)

AV40PG21B	PG7	PG21	13,0	70	11	6,5-8,5-10,5-12,5(PG7)-15,2(PG9)-18,6(PG11) 20,4(PG13,5)-22,5(PG16)-25,5-18,3(PG21)-30,5	133,11	188,18
AV40PG29B	PG7	PG29	13,0	81	14	6,5-9-11-12,5(PG7)-15,2(PG9)-18,6(PG11)-20,4(PG13,5) 22,5(PG16)-26-28,3(PG21)-30,5-33-35-37(PG29)	171,96	241,23
AV40BM8B	8,5	32,5	10,0	70	12	8,5-10,5-12,5-14,5-16,5-18,5-20,5-23,5-25,5 28-30,5-32,5	100,91	146,22
AV40BM9B	8,5	40,5	12,0	84	16	8,5-10,5-12,5-14,5-16,5-18,5-20,5-23,5-25,5 28-30,5-32,5-34,5-36,5-38,5-40,5	143,69	216,55

BROCAS ESCALONADAS DE CANALES RECTOS HSSCO



Ref. AVC40



BM1 BM2 BM3 BM4 BM18



Avellanadores

Rosa

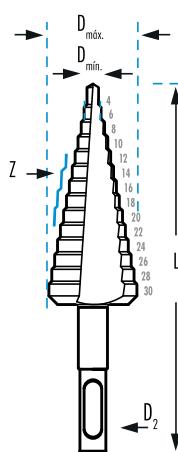
AVC40

	D mín. mm	D máx. mm	D2 mm	L1 mm	Z	Ø Z mm menor-mayor	HSSCo €	TiN €
AVC40BM1B	4,0	12,0	6,0	65	5	4-6-8-10-12	50,08	76,78
AVC40BM2B	4,0	12,0	6,0	65	9	4-5-6-7-8-9-10-11-12	52,88	92,74
AVC40BM3B	4,0	20,0	8,0	69	9	4-6-8-10-12-14-16-18-20	64,94	105,07
AVC40BM4B	4,0	30,0	10,0	96	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	100,59	164,70
AVC40BM18B	6,0	37,0	10,0	100	12	6-9-12,5-15,2-18,6-20,4-22,5-26-28,3-30,5-34-37	205,94	309,27

BROCAS ESCALONADAS DE CANALES RECTOS HSS SDS-PLUS



Ref. AV40BMSDS



BMSDS1 BMSDS2 BMSDS3 BMSDS4

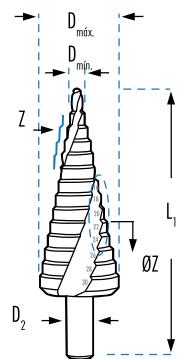
AV40BMSDS

	D min. mm	D max. mm	D2 mm	L1 mm	Z	Ø Z mm menor-mayor	HSS €	TiN €
AV40BMSDS1B	4,0	12,0	8,8	95,5	5	4-6-8-10-12	43,16	68,11
AV40BMSDS2B	4,0	12,0	8,8	95,5	9	4-5-6-7-8-9-10-11-12	44,27	68,50
AV40BMSDS3B	4,0	20,0	8,8	104,0	9	4-6-8-10-12-14-16-18-20	56,76	87,43
AV40BMSDS4B	4,0	30,0	8,8	126,0	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	93,11	141,93

BROCAS ESCALONADAS DE CANALES HELICOIDALES HSS

HSS

Ref. AV42



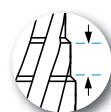
AV42

	D mín. mm	D máx. mm	D2 mm	L1 mm	Z	Ø Z mm menor-mayor	HSS €	TiN €
AV42BM1B	4,0	12,0	6,0	65	5	4-6-8-10-12	45,71	65,46
AV42BM2B	4,0	12,0	6,0	68	9	4-5-6-7-8-9-10-11-12	46,17	68,17
AV42BM3B	4,0	20,0	8,0	69	9	4-6-8-10-12-14-16-18-20	61,59	95,30
AV42BM4B	4,0	30,0	10,0	96	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	101,51	151,72
AV42BM5B	6,0	38,0	10,0	96	12	6-9-13-16-19-21-23-26-29-32-35-38	218,71	285,25
AV42BM11B	6,0	25,0	10,0	65	7	6-9-12-16-20-22,5-25	85,98	119,36
AV42BM12B	6,0	32,0	10,0	75	9	6-9-12-16-20-22,5-25-28,5-32	124,60	159,36
AV42BM13	6,0	40,0	13,0	105	16	6-11-17-23-29-30-31-32-33-34-35-36-37-38-39-40	288,78	326,36
AV42BM8B	8,5	32,5	10,0	70	12	8,5-10,5-12,5-14,5-16,5-18,5-20,5-23,5 25,5-28-30,5-32,5	113,18	155,25
AV42BM9B	8,5	40,5	12,0	84	16	8,5-10,5-12,5-14,5-16,5-18,5-20,5-23,5 25,5-28-30,5-32,5-34,5-36,5-38,5-40,5	177,98	231,55

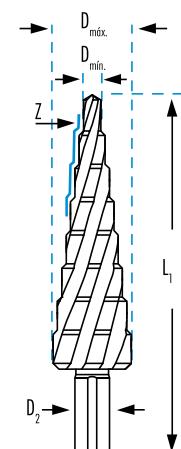
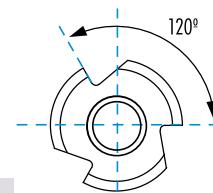
BROCAS MEGA ESCALONADAS DE CANALES HELICOIDALES HSS

NEW
HSS

Ref. AV42BM7



ESCALÓN 10 mm



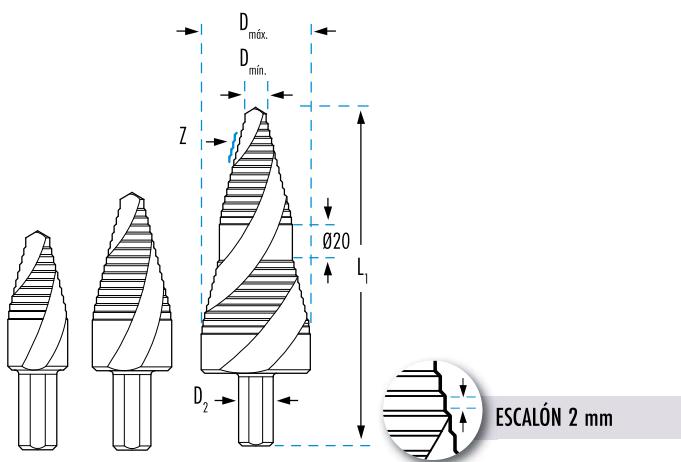
AV42

	D mín. mm	D máx. mm	D2 mm	L1 mm	Z	Ø Z mm menor-mayor	HSS €	TiN €
AV42BM702B	6,0	12,0	6,0	105	7	6-7-8-9-10-11-12	45,95	51,05
AV42BM703B	6,0	20,0	10,0	120	8	6-8-10-12-14-16-18-20	72,11	80,12
AV42BM704B	6,0	27,0	12,0	125	8	6-9-12-15-18-21-24-27	94,88	105,42

BROCA MICROESCALONADAS HSS



STEP CUT



AV40BM37 AV40BM38 AV40BM36

AV40BM

	D mín. mm	D máx. mm	D ₂ mm	L ₁ mm	Z	Ø Z mm menor-mayor	HSS €	TiN €
AV40BM37B	6,0	15,0	9,5	55	11	6-7-8-9-10-11-12-13-14-14,5-15	27,75	36,42
AV40BM38B	6,0	20,0	9,5	65	16	6-7-8-9-10-11-12-13-14-15-16-17-18-19-19,5-20	41,49	57,02
AV40BM36B	6,0	30,0	9,5	93	27	6-7-8-9-10-11-12-13-14-15-16-17-18-19-19,5-20-21-22-23-24-25-26-27-28-29-29,5-30	102,31	147,33

MANGO HEXAGONAL 1/4"

AV41

	D mín. mm	D máx. mm		L ₁ mm	Z	Ø Z mm menor-mayor	HSS €	TiN €
AV41BM2B	4,0	12,0	1/4"	72	9	4-5-6-7-8-9-10-11-12	46,17	68,17
AV41BM3B	4,0	20,0	1/4"	81	9	4-6-8-10-12-14-16-18-20	61,59	95,30
AV41BM4B	4,0	30,0	1/4"	105	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	101,51	151,72



SERIE CORTA Máximo 2 mm de espesor

AV41C

	D mín. mm	D máx. mm	D ₂ mm	L ₁ mm	Z	Ø Z mm menor-mayor	HSS €	TiN €
AV41CBM2B	4,0	12,0	6,0	48	9	4-5-6-7-8-9-10-11-12	50,94	68,37
AV41CBM3B	4,0	20,0	8,0	58	9	4-6-8-10-12-14-16-18-20	63,24	88,36
AV41CBM4B	4,0	30,0	10,0	72	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	103,10	158,74



Ref. AV41CBM3B

BROCAS ESCALONADAS HSS CARACTERÍSTICAS ESPECIALES

HSS

ATORNILLAMIENTOS MÉTRICOS DE CABLE

	DIN	D mín. mm	D máx. mm	D2 mm	L1 mm	Z	Ø Z mm menor-mayor	HSS €	TiN €
AV45BM0B	60423	5,3	30,5	10,0	79	9	5,3-7-9-10,5-14,5-18,5-23,5-27-30,5	180,94	233,33
AV45BM2B	60423	5,3	38,5	10,0	96	11	5,3-7-9-10,5-14,5-18,5-23,5-27 30,5-34,5-38,5	217,59	274,91



Ref. AV45BM2B

ESCALONADA RECTA CON 3 CORTES

	D mín. mm	D máx. mm	D2 mm	L1 mm	Z	Ø Z mm menor-mayor	HSS €	TiN €
AV43BM1B	4,0	12,0	6,0	65	9	4-5-6-7-8-9-10-11-12	47,58	75,36
AV43BM2B	4,0	20,0	8,0	75	9	4-6-8-10-12-14-16-18-20	65,23	101,07
AV43BM3B	4,0	30,0	10,0	100	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	100,54	164,44



Ref. AV43BM3B



BROCA ESCALONADA CON BROCA GUÍA INTERCAMBIABLE

	D mín. mm	D máx. mm	D2 mm	L1 mm	Z	Ø Z mm menor-mayor	HSS €
AV4BM3040	30,0	40,0	13,0	76	11	30-31-32-33-34-35-36-37-38-39-40	165,83
AV4BM4050	40,0	50,0	13,0	76	11	40-41-42-43-44-45-46-47-48-49-50	239,52
AV4BM5060	50,0	60,0	13,0	76	11	50-51-52-53-54-55-56-57-58-59-60	304,05



Ref. AV4BM3040

BROCA GUÍA

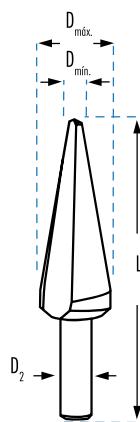


	DESCRIPCIÓN	BAV4BM
BAV4BM	10X35mm	10,73

BROCAS AVELLANADORAS PARA TUBO Y CHAPA HSS Y HSSCO

HSS**HSSCo**Ref. AV30
Ref. AVC30**BM0 BM1 BM5 BM3 BM4 BM6**

D mín. mm	D máx. mm	D ₂ mm	L ₁ mm	AV30		AVC30			
				HSS	TiN	HSSCo	TiN		
3,0	14,0	6,0	58	AV30BMOB	20,13	40,23	AVC30BMOB	37,26	48,67
3,0	22,5	8,0	85	AV30BM8B	55,65	100,85			
3,0	31,0	10,0	102	AV30BM5B	88,99	133,36			
5,0	25,4	10,0	87	AV30BM9B	63,28	120,89			
6,0	20,0	8,0	63	AV30BM1B	28,40	58,71	AVC30BM1B	49,40	75,03
16,0	30,0	10,0	79	AV30BM2B	54,93	97,15	AVC30BM2B	81,51	108,68
26,0	40,0	13,0	86	AV30BM3B	113,65	177,97	AVC30BM3B	164,73	228,88
36,0	50,0	13,0	89	AV30BM4	167,40	258,22			
40,0	61,0	13,0	98	AV30BM6	277,32	431,87			



*Las referencias acabadas en B, se suministran en blíster.

BROCAS AVELLANADORAS PARA CHAPA HSS CARACTERISTICAS ESPECIALES

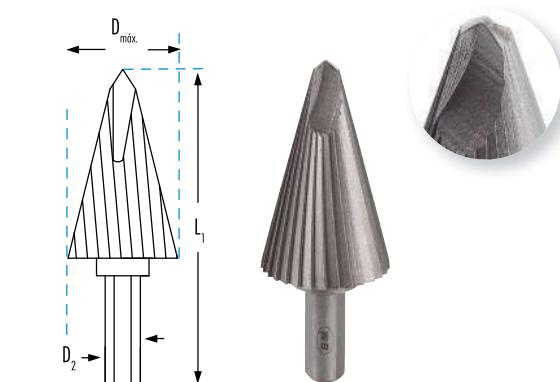
HSS

Ref. AG

Broca-avellanadora para cortar tubo y chapa de acero y aleaciones ligeras, materiales plásticos. Indicado hasta 5 mm de profundidad.

HSS

Ref. AV31



FRESA PARA TUBO Y CHAPA

	D máx. mm	D ₂ mm	L ₁ mm	Nº dientes	AG	
					HSS	€
AG2500	25,0	8,0	72	20	28,42	
AG3200	32,0	10,0	81	30	42,67	
AG4500	45,0	10,0	94	36	70,48	

TOPE DE PROFUNDIDAD

	D mín. mm	D máx. mm	D ₂ mm	L ₁ mm	AV31	
					HSS	TiN
AV31BMOB	3,0	7,8	6,0	48	32,26	48,82
AV31BM1B	3,0	10,2	6,0	52	42,36	66,41
AV31BM2B	3,0	11,8	6,0	56	47,14	83,31