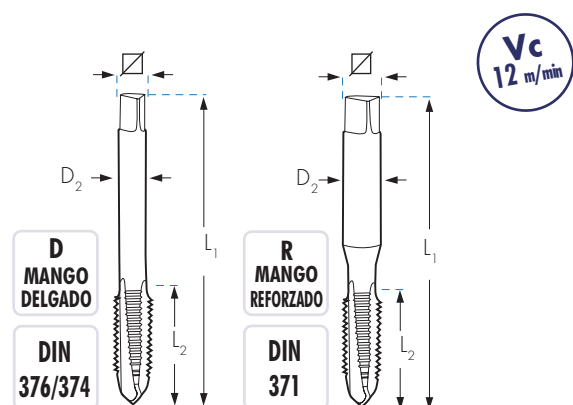
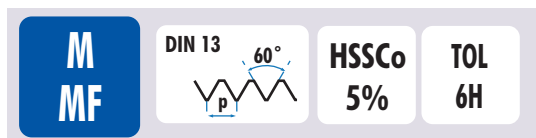


MACHOS PARA ROSCAR A MÁQUINA HSSCo

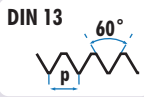


			L1 x L2 x D2 x ∇ mm	M1D	M2D	M3D	M4D	M1R	M2R	M3R	M4R
				FORMA C	FORMA B	15°	35°	FORMA C	FORMA B	15°	35°
				€	€	€	€	€	€	€	€
M 1x0,25	0,75	R	40 x 5,5 x 2,5 x 2,1					43,34			
M 1,1x0,25	0,85	R	40 x 6 x 2,5 x 2,1					42,16			
M 1,2x0,25	0,95	R	40 x 6 x 2,5 x 2,1					38,51			
M 1,4x0,30	1,10	R	40 x 7 x 2,5 x 2,1					38,51			
M 1,6x0,35	1,25	R	40 x 8 x 2,5 x 2,1					37,82			
M 1,7x0,35	1,35	R	40 x 8 x 2,5 x 2,1					36,42			
M 1,8x0,35	1,45	R	40 x 8 x 2,5 x 2,1					35,52			
M 2x0,40	1,60	R	40 x 8 x 2,8 x 2,1					17,10	18,95	21,19	21,59
M 2,2x0,45	1,75	R	40 x 9 x 2,8 x 2,1					18,49			
M 2,3x0,40	1,90	R	40 x 9 x 2,8 x 2,1					17,03			
M 2,5x0,45	2,05	R	50 x 9 x 2,8 x 2,1					17,10	18,95	29,79	21,59
M 2,6x0,45	2,10	R	50 x 9 x 2,8 x 2,1					17,13	19,29		35,89
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	11,33	12,27	17,08	14,72	11,33*	11,51	16,74	15,09
M 3x0,60	2,40	R	56 x 11 x 3,5 x 2,7					20,14	21,98		29,03
M 3,5x0,60	2,90	R	56 x 12 x 4,0 x 3,0					16,47	17,14	22,14	20,78
M 3,5x0,75	2,75	R	56 x 12 x 4,0 x 3,0					21,77			
M 4x0,50	3,50	R	63 x 13 x 4,5 x 3,4	24,81	27,32		28,89	23,71	26,38		30,54
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	11,53	12,40	18,31	14,58	12,89*	12,16	16,52	15,10
M 4x0,75	3,25	R	63 x 13 x 4,5 x 3,4					18,03	19,25		
M 4x0,80	3,20	R	63 x 13 x 4,5 x 3,4					95,70			
M 4,5x0,50	4,00	R	70 x 14 x 6,0 x 4,9						30,69		
M 4,5x0,75	3,75	R	70 x 14 x 6,0 x 4,9					22,25	24,50		
M 5x0,50	4,50	R	70 x 14 x 6,0 x 4,9	25,55	28,07		29,21	24,42	27,10		32,58
M 5x0,75	4,50	R	74 x 14 x 6,0 x 4,9					21,90	25,69		32,37
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	11,53	12,47	17,55	14,00	11,54*	12,18	15,85	14,48
M 5x0,90	4,10	R	70 x 15 x 6,0 x 4,9					19,05	24,54		
M 5x1,00	4,00	R	72 x 17 x 6,0 x 4,9					51,02			
M 5,5x0,90	4,60	R	80 x 17 x 6,0 x 4,9					51,02			
M 6x0,50	5,50	R	80 x 17 x 6,0 x 4,9	30,25	37,09		46,80	31,97			
M 6x0,75	5,25	R	80 x 13 x 6,0 x 4,9	19,93	23,08		26,95	20,71	24,13		28,98
M 6x1,00	5,00	R	80 x 19 x 6,0 x 4,9	13,15	13,66	18,36	15,35	13,13*	13,36	17,39	15,88

* Consulte el precio de machos y terrajas a izquierdas disponibles en Pag.217

MACHOS PARA ROSCAR A MÁQUINA HSSCo





HSSCo
5%

TOL
6H

D
MANGO
DELGADO

DIN
376/374



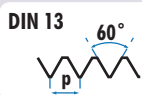
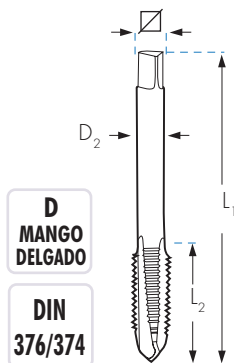
R
MANGO
REFORZADO

DIN
371

			L1 x L2 x D2 x  mm	M1D	M2D	M3D	M4D	M1R	M2R	M3R	M4R
				FORMA C	FORMA B	 15°	 35°	FORMA C	FORMA B	 15°	 35°
				€	€	€	€	€	€	€	€
M 6x1,25	4,75	R	80 x 17 x 6,0 x 4,9					50,15			
M 7x0,75	6,25	D	80 x 13 x 5,5 x 4,3	25,66	28,46		35,15				
M 7x1,00	6,00	R D	80 x 19 x 7,0 x 5,5 80 x 19 x 5,5 x 4,3	17,69	20,45	22,09	21,26	17,03*	19,88	22,48	22,25
M 8x0,50	7,50	D	80 x 13 x 6 x 4,9	34,51							
M 8x0,75	7,25	D	80 x 13 x 6 x 4,9	25,00	30,66		38,02				
M 8x1,00	7,00	D	90 x 20 x 6 x 4,9	20,45	23,47	28,12	26,00				
M 8x1,25	6,80	R D	90 x 22 x 8 x 6,2 90 x 22 x 6 x 4,9	14,75	15,41	20,90	17,92	14,84*	14,85	20,02	18,14
M 8x1,50	6,50	D	90 x 20 x 6 x 4,9	101,14							
M 9x1,00	8,00	D	90 x 20 x 7 x 5,5	30,92	33,06		35,13				
M 9x1,25	7,80	R D	90 x 22 x 9 x 7,0 90 x 22 x 7 x 5,5	24,85	26,11	31,62	30,91	24,61	24,93	31,88	31,80
M 10x0,50	9,50	D	90 x 20 x 7 x 5,5	100,21							
M 10x0,75	9,25	D	90 x 16 x 7 x 5,5	39,64	39,72		48,37				
M 10x1,00	9,00	D	90 x 16 x 7 x 5,5	22,64	26,08	33,20	31,63				
M 10x1,25	8,80	D	100 x 22 x 7 x 5,5	25,92	31,18	36,19	34,47				
M 10x1,50	8,50	R D	100 x 24 x 10 x 8,0 100 x 24 x 7 x 5,5	16,67	18,64	24,85	21,48	16,82*	18,29	22,99	21,48
M 11x1,00	10,00	D	90 x 20 x 8 x 6,2	40,58	41,91	105,96	96,42				
M 11x1,25	9,75	D	100 x 22 x 8 x 6,2	38,83	43,14	105,96	86,07				
M 11x1,50	9,50	D	100 x 24 x 8 x 6,2	31,48	36,19	77,26	70,27				
M 12x0,75	11,25	D	100 x 22 x 9 x 7,0	59,46							
M 12x1,00	11,00	D	100 x 22 x 9 x 7,0	30,79	35,24	40,96	40,52				
M 12x1,25	10,75	D	100 x 22 x 9 x 7,0	31,17	34,62	39,22	38,79				
M 12x1,50	10,50	D	100 x 22 x 9 x 7,0	27,86*	30,88	37,71	37,31				
M 12x1,75	10,20	D	110 x 28 x 9 x 7,0	20,08*	23,28	31,78	27,39				
M 13x0,75	12,25	D	100 x 22 x 11 x 9,0	103,78							
M 13x1,00	12,00	D	100 x 22 x 11 x 9,0	54,96	62,23						
M 13x1,25	11,75	D	100 x 22 x 11 x 9,0	54,96	62,23						
M 13x1,50	11,50	D	100 x 22 x 11 x 9,0	54,96	62,23						
M 13x1,75	11,25	D	100 x 28 x 11 x 9,0	54,57	62,23						
M 14x0,75	13,25	D	100 x 22 x 11 x 9,0	103,78							
M 14x1,00	13,00	D	100 x 22 x 11 x 9,0	49,56	54,52	63,15	62,62				
M 14x1,25	12,80	D	100 x 22 x 11 x 9,0	42,18	46,04	57,92	55,18				
M 14x1,50	12,50	D	100 x 22 x 11 x 9,0	33,18*	36,56	45,68	43,51				
M 14x2,00	12,00	D	110 x 30 x 11 x 9,0	32,96*	36,62	42,44	42,44				
M 15x1,00	14,00	D	100 x 22 x 12 x 9,0	63,03	66,73		84,97				
M 15x1,25	13,75	D	100 x 22 x 12 x 9,0	67,51	73,11						
M 15x1,50	13,50	D	100 x 22 x 12 x 9,0	53,96	61,54	157,22	127,53				
M 15x2,00	13,00	D	110 x 30 x 12 x 9,0	66,05	72,69						
M 16x1,00	15,00	D	100 x 22 x 12 x 9,0	59,41	63,03	88,42	85,85				
M 16x1,25	14,75	D	100 x 22 x 12 x 9,0	63,57	69,88	98,33	95,22				
M 16x1,50	14,50	D	100 x 22 x 12 x 9,0	39,23*	45,71	56,92	54,23				
M 16x2,00	14,00	D	110 x 32 x 12 x 9,0	38,79*	42,84	51,27	51,27				
M 17x1,00	16,00	D	100 x 22 x 12 x 9,0	118,20							
M 17x1,25	15,75	D	100 x 22 x 12 x 9,0	118,20							
M 17x1,50	15,50	D	100 x 22 x 12 x 9,0	118,20							
M 18x1,00	17,00	D	110 x 25 x 14 x 11,0	66,53	73,12		105,05				
M 18x1,25	16,75	D	110 x 25 x 14 x 11,0	82,46							
M 18x1,50	16,50	D	110 x 25 x 14 x 11,0	51,94*	57,16	69,95	68,06				
M 18x2,00	16,00	D	125 x 30 x 14 x 11,0	73,30	81,23	138,42	123,54				

* Consulte el precio de machos y terrajas a izquierdas disponibles en Pag.217

MACHOS PARA ROSCAR A MÁQUINA HSSCo

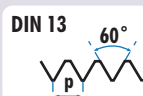
M
MFHSSCo
5%TOL
6HD
MANGO
DELGADODIN
376/374Vc
12 m/min

			L1 x L2 x D2 x ∇ mm	M1D FORMA C €	M2D FORMA B €	M3D 15° €	M4D 35° €
				€	€	€	€
M 18x2,50	15,50	D	125 x 34 x 14 x 11,0	55,81 *	61,02	69,03	66,48
M 19x1,00	18,00	D	110 x 22 x 14 x 11,0	155,30			
M 19x1,25	17,75	D	110 x 25 x 14 x 11,0	159,71			
M 19x1,50	17,50	D	110 x 25 x 14 x 11,0	152,44			
M 20x1,00	19,00	D	125 x 25 x 16 x 12,0	87,83	97,53		112,20
M 20x1,25	18,75	D	125 x 25 x 16 x 12,0	155,30			
M 20x1,50	18,50	D	125 x 25 x 16 x 12,0	58,83 *	64,65	78,62	77,75
M 20x2,00	18,00	D	140 x 32 x 16 x 12,0	77,10	84,77		100,09
M 20x2,50	17,50	D	140 x 34 x 16 x 12,0	59,41 *	65,88	73,67	73,68
M 21x1,00	20,00	D	125 x 25 x 16 x 12,0	225,49			
M 21x1,25	19,75	D	125 x 25 x 16 x 12,0	225,49			
M 21x1,50	19,50	D	125 x 25 x 16 x 12,0	215,34			
M 22x1,00	21,00	D	125 x 25 x 18 x 14,5	98,46	104,50		144,59
M 22x1,25	20,75	D	125 x 25 x 18 x 14,5	155,30			
M 22x1,50	20,50	D	125 x 25 x 18 x 14,5	70,81	77,89	86,24	81,14
M 22x2,00	20,00	D	140 x 32 x 18 x 14,5	98,46	108,29		144,59
M 22x2,50	19,50	D	140 x 34 x 18 x 14,5	71,89 *	79,07	87,39	86,48
M 23x1,00	22,00	D	125 x 25 x 18 x 14,5	219,22			
M 23x1,50	21,50	D	125 x 25 x 18 x 14,5	219,22			
M 24x1,00	23,00	D	140 x 25 x 18 x 14,5	107,29	130,15		152,77
M 24x1,25	22,75	D	140 x 25 x 18 x 14,5	225,49			
M 24x1,50	22,50	D	140 x 28 x 18 x 14,5	87,09	95,75	115,27	109,80
M 24x2,00	22,00	D	140 x 28 x 18 x 14,5	111,11 *	121,06		130,63
M 24x3,00	21,00	D	160 x 38 x 18 x 14,5	86,06 *	94,19	105,32	105,11
M 25x1,00	24,00	D	140 x 28 x 18 x 14,5	207,99			
M 25x1,25	23,75	D	140 x 28 x 18 x 14,5	328,66			
M 25x1,50	23,50	D	140 x 28 x 18 x 14,5	135,50	143,41		
M 25x2,00	23,00	D	140 x 28 x 18 x 14,5	291,68	320,86		
M 26x1,00	25,00	D	140 x 28 x 18 x 14,5	161,48			
M 26x1,50	24,50	D	140 x 28 x 18 x 14,5	117,44	123,10	215,94	189,89
M 26x2,00	24,00	D	140 x 28 x 18 x 14,5	227,46	250,21		274,82
M 27x1,00	26,00	D	140 x 28 x 20 x 16,0	144,63	186,74		
M 27x1,50	25,50	D	140 x 28 x 20 x 16,0	128,23	135,84	313,83	282,97
M 27x2,00	25,00	D	140 x 28 x 20 x 16,0	158,61 *	167,83		

* Consulte el precio de machos y terrajas a izquierdas disponibles en Pag.217

MACHOS PARA ROSCAR A MÁQUINA HSSCo

**M
MF**



**HSSCo
5%**

**TOL
6H**

**D
MANGO
DELGADO**

**DIN
376/374**

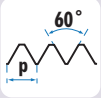


		L1 x L2 x D2 x 	M1D	M2D	M3D	M4D
			FORMA C €	FORMA B €	15° €	35° €
M 27x3,00	24,00	D 160 x 36 x 20 x 16	107,43 *	117,81	129,58	129,33
M 28x1,00	27,00	D 140 x 28 x 20 x 16	291,68			
M 28x1,50	26,50	D 140 x 28 x 20 x 16	128,23	140,78	163,43	147,55
M 28x2,00	26,00	D 140 x 28 x 20 x 16	156,44	176,68	192,60	189,40
M 30x1,00	29,00	D 150 x 28 x 22 x 18	164,01	189,65		221,11
M 30x1,50	28,50	D 150 x 28 x 22 x 18	133,66	147,07	177,23	168,80
M 30x2,00	28,00	D 150 x 28 x 22 x 18	165,44 *	175,59		242,96
M 30x3,50	26,50	D 180 x 40 x 22 x 18	137,67 *	151,36	166,08	165,73
M 32x1,00	31,00	D 150 x 28 x 22 x 18	388,93	412,98		
M 32x1,50	30,50	D 150 x 28 x 22 x 18	169,12	185,68	218,36	
M 32x2,00	30,00	D 150 x 28 x 22 x 18	207,81	318,20		
M 33x1,00	32,00	D 160 x 30 x 25 x 20	358,20			
M 33x1,50	31,50	D 160 x 30 x 25 x 20	190,54	202,09		235,21
M 33x2,00	31,00	D 160 x 30 x 25 x 20	312,29	319,21		389,52
M 33x3,50	29,50	D 180 x 40 x 25 x 20	165,44 *	190,36		211,14
M 34x1,50	32,50	D 170 x 30 x 28 x 22	212,21	224,80		
M 34x2,00	32,00	D 160 x 30 x 28 x 22	446,29			
M 35x1,50	33,50	D 170 x 30 x 28 x 22	223,80	246,17		269,20
M 35x2,00	33,00	D 170 x 30 x 28 x 22	411,82	453,36		
M 36x1,50	34,50	D 170 x 30 x 28 x 22	204,35	241,59		292,44
M 36x2,00	34,00	D 170 x 30 x 28 x 22	276,01	286,90		
M 36x3,00	33,00	D 200 x 50 x 28 x 22	316,67	329,12		423,25
M 36x4,00	32,00	D 200 x 50 x 28 x 22	217,13 *	232,62	270,20	258,53
M 38x1,50	36,50	D 170 x 30 x 28 x 22	217,85	245,46		
M 38x2,00	36,00	D 170 x 32 x 28 x 22	463,04	509,37		
M 39x1,50	37,50	D 170 x 32 x 32 x 24	342,33			
M 39x2,00	37,00	D 170 x 32 x 32 x 24	342,33			
M 39x3,00	36,00	D 200 x 47 x 32 x 24	447,05			
M 39x4,00	35,00	D 200 x 50 x 32 x 24	260,50	270,79		333,90
M 40x1,50	38,50	D 170 x 30 x 32 x 24	284,85	313,53		
M 40x2,00	38,00	D 170 x 30 x 32 x 24	343,23			
M 40x3,00	37,00	D 200 x 47 x 32 x 24	336,52	401,49		
M 42x1,50	40,50	D 170 x 30 x 32 x 24	310,81	303,76		
M 42x2,00	40,00	D 170 x 30 x 32 x 24	392,65			
M 42x3,00	39,00	D 200 x 45 x 32 x 24	392,65	470,20		
M 42x4,50	37,50	D 200 x 56 x 32 x 24	334,98	348,10		372,23
M 45x1,50	43,50	D 180 x 32 x 36 x 29	371,22	408,30		
M 45x2,00	43,00	D 180 x 32 x 36 x 29	454,65			
M 45x3,00	42,00	D 200 x 47 x 36 x 29	454,65			
M 45x4,50	40,50	D 220 x 58 x 36 x 29	365,91	402,48		
M 48x1,50	46,50	D 190 x 32 x 36 x 29	365,91			
M 48x2,00	46,00	D 190 x 32 x 36 x 29	591,25			
M 48x3,00	45,00	D 220 x 52 x 36 x 29	550,95			
M 48x5,00	43,00	D 250 x 65 x 36 x 29	449,97	494,94		
M 50x1,50	48,50	D 190 x 32 x 36 x 29	443,49			
M 52x1,50	50,50	D 190 x 32 x 40 x 32	433,24			
M 52x2,00	50,00	D 190 x 32 x 40 x 32	685,61			
M 52x3,00	49,00	D 225 x 50 x 40 x 32	704,62			
M 52x5,00	47,00	D 250 x 65 x 40 x 32	460,83	570,19		

* Consulte el precio de machos y terrajas a izquierdas disponibles en Pag.217

MACHOS PARA ROSCAR A MÁQUINA HSSCo

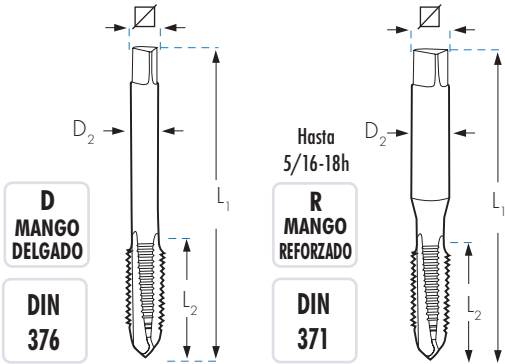
UNC



HSSCo
5%

TOL
2B

Vc
12 m/min

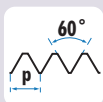


	D1 mm		L1 x L2 x D2 x 	M1R	M2R	M4R
				FORMA C €	FORMA B €	 35° €
UNC nº 4-40h	2,84	2,25	R 56 x 11 x 3,5 x 2,7	25,64	30,49	34,79
UNC nº 5-40h	3,17	2,60	R 56 x 11 x 3,5 x 2,7	26,57	31,88	34,79
UNC nº 6-32h	3,50	2,75	R 56 x 12 x 4,0 x 3,0	25,29	30,39	34,64
UNC nº 8-32h	4,17	3,50	R 63 x 13 x 4,5 x 3,4	25,29	30,39	33,13
UNC nº 10-24h	4,83	3,90	R 70 x 15 x 6,0 x 4,9	26,57	31,88	36,39
UNC nº 12-24h	5,49	4,50	R 80 x 16 x 6,0 x 4,9	27,88	31,88	33,40
UNC 1/4-20h	6,35	5,10	R 80 x 17 x 7,0 x 5,5	24,84	27,08	31,25
UNC 5/16-18h	7,94	6,60	R 90 x 20 x 8,0 x 6,2	28,11	30,99	35,29

MANGO DELGADO				M1D	M2D	M4D
UNC 3/8-16h	9,52	8,00	D 100 x 22 x 7,0 x 5,5	32,05	33,61	37,77
UNC 7/16-14h	11,11	9,40	D 100 x 22 x 8,0 x 6,2	44,11	44,26	55,35
UNC 1/2-13h	12,70	10,75	D 110 x 24 x 9,0 x 7,0	47,87	53,04	60,54
UNC 9/16-12h	14,28	12,20	D 110 x 26 x 11,0 x 9,0	65,80	72,25	82,19
UNC 5/8-11h	15,87	13,50	D 110 x 27 x 12,0 x 9,0	63,93	70,36	79,93
UNC 3/4-10h	19,05	16,50	D 125 x 30 x 14,0 x 11,0	84,64	93,05	105,87
UNC 7/8-9h	22,22	19,50	D 140 x 32 x 18,0 x 14,5	111,37	122,36	165,66
UNC 1"-8h	25,40	22,25	D 160 x 36 x 18,0 x 14,5	147,16	160,76	207,81
UNC 1.1/8-7h	28,57	25,00	D 180 x 40 x 22,0 x 18,0	192,22		232,19
UNC 1.1/4-7h	31,75	28,00	D 180 x 40 x 22,0 x 18,0	225,30		297,04
UNC 1.3/8-6h	34,92	30,75	D 200 x 50 x 28,0 x 22,0	336,06		
UNC 1.1/2-6h	38,10	34,00	D 200 x 50 x 32,0 x 24,0	381,64		

MACHOS PARA ROSCAR A MÁQUINA HSSCo

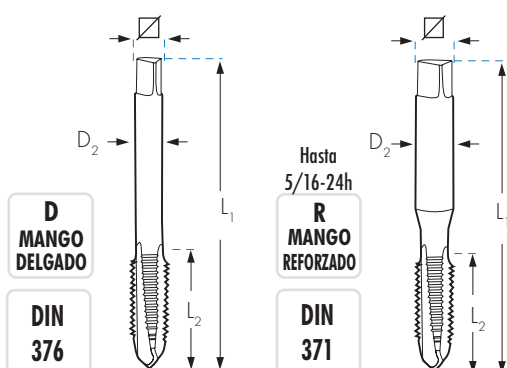
UNF



HSSCo
5%

TOL
2B

Vc
12 m/min

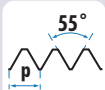


	D1 mm		L1 x L2 x D2 x ∇ mm	M1R	M2R	M4R
				FORMA C €	FORMA B €	35° €
UNF nº 4-48h	2,84	2,35	R 56 x 11 x 3,5 x 2,7	26,84	29,22	36,68
UNF nº 5-44h	3,17	2,70	R 56 x 11 x 3,5 x 2,7	26,84	29,22	36,68
UNF nº 6-40h	3,50	2,95	R 56 x 12 x 4,0 x 3,0	25,67	30,74	36,40
UNF nº 8-36h	4,17	3,50	R 63 x 13 x 4,5 x 3,4	25,67	30,74	36,40
UNF nº 10-32h	4,83	4,10	R 70 x 15 x 6,0 x 4,9	25,67	30,74	36,40
UNF nº 12-28h	5,49	4,60	R 80 x 16 x 6,0 x 4,9	26,84	32,16	36,68
UNF 1/4-28h	6,35	5,50	R 80 x 17 x 7,0 x 5,5	21,68	23,22	27,09
UNF 5/16-24h	7,94	6,90	R 90 x 20 x 8,0 x 6,2	24,24	26,72	31,24

				M1D	M2D	M4D
UNF 3/8-24h	9,52	8,50	D 90 x 16 x 7,0 x 5,5	26,54	30,70	39,08
UNF 7/16-20h	11,11	9,90	D 100 x 22 x 8,0 x 6,2	32,74	37,95	50,10
UNF 1/2-20h	12,70	11,50	D 100 x 22 x 9,0 x 7,0	34,86	40,35	53,30
UNF 9/16-18h	14,29	12,90	D 100 x 22 x 11,0 x 9,0	42,83	49,60	66,00
UNF 5/8-18h	15,87	14,50	D 100 x 22 x 12,0 x 9,0	48,22	55,79	73,74
UNF 3/4-16h	19,05	17,50	D 110 x 25 x 14,0 x 11,0	61,70	71,45	94,32
UNF 7/8-14h	22,22	20,40	D 125 x 25 x 18,0 x 14,5	77,59	97,06	144,28
UNF 1"-12h	25,40	23,25	D 140 x 28 x 18,0 x 14,5	116,79	127,17	169,81
UNS 1"-14h	25,40	23,60	D 140 x 28 x 18,0 x 14,5	117,31	130,82	169,82
UNF 1.1/8-12h	28,57	26,50	D 150 x 28 x 22,0 x 18,0	177,95		
UNF 1.1/4-12h	31,75	29,50	D 150 x 28 x 22,0 x 18,0	224,88		
UNF 1.1/2-12h	38,10	36,00	D 170 x 30 x 32,0 x 24,0	377,42		

MACHOS PARA ROSCAR A MÁQUINA HSSCo

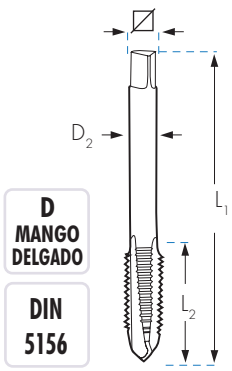
BSP
(GAS)



HSSCo
5%

TOL
ISO 228

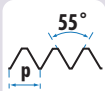
INOX



 	D1 mm		L1 x L2 x D2 x  mm	M1D	M2D	M3D	M4D	M2DX	M4DX
				FORMA C	FORMA B	 15°	 35°	FORMA B	 35°
				€	€	€	€	€	€
G 1/8-28h.	9,728	8,80	D 90 x 16 x 7 x 5,5	33,94*	38,77	39,72	41,16	59,93	59,31
G 1/4-19h.	13,157	11,80	D 100 x 22 x 11 x 9,0	47,07*	51,82	57,04	59,11	80,74	86,42
G 3/8-19h.	16,662	15,25	D 100 x 22 x 12 x 9,0	56,36*	62,01	68,13	70,59	95,79	101,56
G 1/2-14h.	20,955	19,00	D 125 x 25 x 16 x 12,0	71,23*	78,38	85,93	89,02	118,60	128,19
G 5/8-14h.	22,911	21,00	D 125 x 25 x 18 x 14,5	88,76*	93,09	106,99	106,00		
G 3/4-14h.	26,441	24,50	D 140 x 28 x 20 x 16,0	111,49	122,71	134,50	139,36	179,20	197,70
G 7/8-14h.	30,201	28,25	D 150 x 28 x 22 x 18,0	149,87	157,66	180,90	179,21		
G 1"-11h.	33,249	30,75	D 160 x 30 x 25 x 20,0	173,06	190,32	206,53	214,00		
G 1.1/8-11h.	37,897	35,50	D 170 x 30 x 28 x 22,0	276,34	301,43		331,06		
G 1.1/4-11h.	41,910	39,50	D 170 x 30 x 32 x 24,0	324,25	341,16		377,68		
G 1.3/8-11h.	44,323	42,00	D 180 x 32 x 36 x 29,0	387,73			524,62		
G 1.1/2-11h.	47,803	45,25	D 190 x 32 x 36 x 29,0	517,04	720,77		682,81		
G 1.3/4-11h.	53,746	51,25	D 190 x 32 x 40 x 32,0	614,56	710,98				
G 2"-11h.	59,614	57,00	D 220 x 36 x 45 x 35,0	783,81	780,18				

* Disponibles también con rosca izquierda con 100% de recargo sobre los precios tarifados en rosca derecha

BSF



HSSCo
5%

TOL
ISO 228

Vc
12 m/min

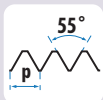
D
MANGO
DELGADO

DIN
5156

	D1 mm		L1 x L2 x D2 x  mm	M1D
				FORMA C
				€
BSF 3/16-32h.	4,762	4,00	D 70 x 16 x 3,5 x 2,7	77,66
BSF 1/4-26h.	6,350	5,20	D 80 x 17 x 4,5 x 3,4	33,98
BSF 5/16-22h.	7,938	6,60	D 90 x 20 x 6,0 x 4,9	40,35
BSF 3/8-20h.	9,525	8,10	D 100 x 22 x 7,0 x 5,5	42,42
BSF 7/16-18h.	11,113	9,50	D 100 x 22 x 8,0 x 6,2	57,17
BSF 1/2-16h.	12,700	11,00	D 110 x 24 x 9,0 x 7,0	64,70
BSF 9/16-16h.	14,287	12,50	D 110 x 25 x 11,0 x 9,0	68,48
BSF 5/8-14h.	15,876	14,00	D 110 x 27 x 12,0 x 9,0	91,27
BSF 3/4-12h.	19,051	16,50	D 125 x 30 x 14,0 x 11,0	108,04
BSF 7/8-11h.	22,226	19,50	D 140 x 32 x 18,0 x 14,5	150,15
BSF 1"-10h.	25,400	22,50	D 160 x 36 x 18,0 x 14,5	174,54

MACHOS PARA ROSCAR A MÁQUINA HSSCo

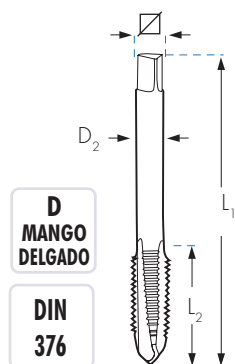
BSW



HSSCo
5%

TOL
Clase 2

V_c
12 m/min



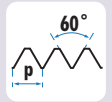
	D1 mm		L1 x L2 x D2 x	M1R FORMA C €	M2R FORMA B €	M3R €	M4R €
W 3/32-48h.	2,38	1,80	R 50 x 9 x 2,8 x 2,1	23,59	25,18		
W 1/8-40h.	3,17	2,55	R 56 x 11 x 3,5 x 2,7	19,68*	21,75	25,68	24,71
W 5/32-32h.	3,97	3,10	R 63 x 13 x 4,5 x 3,4	19,68	21,75	25,68	24,71
W 3/16-24h.	4,76	3,60	R 70 x 15 x 6,0 x 4,9	21,84	21,75	25,68	24,71
W 7/32-24h.	5,56	4,40	R 80 x 16 x 6,0 x 4,9	29,88	31,59		
W 1/4-20h.	6,35	5,10	R 80 x 17 x 7,0 x 5,5	21,02	24,71	29,15	30,20
W 5/16-18h.	7,94	6,50	R 90 x 20 x 8,0 x 6,2	23,57	31,16	34,02	33,96
W 3/8-16h.	9,52	7,90	R 100 x 22 x 10,0 x 8,0	26,38	34,44	37,81	37,75

				M1D	M2D	M3D	M4D
MANGO DELGADO							
W 7/16-14h.	11,11	9,25	D 100 x 22 x 8,0 x 6,2	36,69	37,93	47,66	48,00
W 1/2-12h.	12,70	10,50	D 110 x 24 x 9,0 x 7,0	35,18	39,55	45,66	45,99
W 9/16-12h.	14,29	12,00	D 110 x 26 x 11,0 x 9,0	50,43	52,37	65,49	65,95
W 5/8-11h.	15,87	13,40	D 110 x 27 x 12,0 x 9,0	47,75	49,48	61,93	62,36
W 3/4-10h.	19,05	16,50	D 125 x 30 x 14,0 x 11,0	66,83	69,37	82,97	83,56
W 7/8-9h.	22,22	19,25	D 140 x 32 x 18,0 x 14,5	86,56	89,76	112,31	108,15
W 1"-8h.	25,40	21,75	D 160 x 36 x 18,0 x 14,5	108,79	112,82	140,94	141,94
W 1.1/8-7h.	28,57	24,75	D 180 x 40 x 22,0 x 18,0	147,54	168,11	202,14	
W 1.1/4-7h.	31,75	27,75	D 180 x 40 x 22,0 x 18,0	214,33	244,27		
W 1.3/8-6h.	34,92	30,50	D 200 x 50 x 28,0 x 22,0	352,29	401,13		
W 1.1/2-6h.	38,10	33,50	D 200 x 50 x 32,0 x 24,0	382,38	435,79		
W 1.5/8-5h.	41,27	46,50	D 220 x 65 x 32,0 x 24,0	533,73	608,30		
W 1.3/4-5h.	44,45	39,00	D 220 x 58 x 36,0 x 29,0	571,69	656,25		
W 1.7/8-4,5h.	47,62	42,00	D 250 x 75 x 36,0 x 29,0	662,89	727,51		
W 2"-4,5h.	50,80	44,50	D 250 x 65 x 40,0 x 32,0	818,21			

* Disponibles también con rosca izquierda con 100% de recargo sobre los precios tarifados en rosca derecha

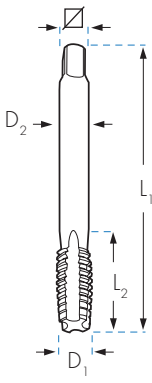
MACHOS PARA ROSCAR A MÁQUINA HSSCo

UNJC



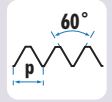
HSSCo
5%

TOL
3B



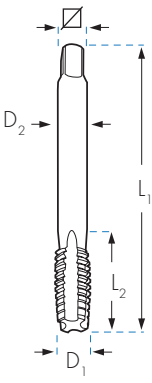
Vc
12 m/min

UNJF



HSSCo
5%

TOL
3B



Vc
12 m/min

	D1 mm		L1 x L2 x D2 x  mm	MTR
				FORMA C €
UNJC nº 4-40h	2,84	2,25	R 56 x 11 x 3,5 x 2,7	38,94
UNJC nº 5-40h	3,17	2,60	R 56 x 11 x 3,5 x 2,7	38,94
UNJC nº 6-32h	3,50	2,75	R 56 x 12 x 4,0 x 3,0	38,94
UNJC nº 8-32h	4,17	3,50	R 63 x 13 x 4,5 x 3,4	38,94
UNJC nº 10-24h	4,83	3,90	R 70 x 15 x 6,0 x 4,9	38,94
UNJC nº 12-24h	5,49	4,50	R 80 x 16 x 6,0 x 4,9	40,85
UNJC 1/4-20h	6,35	5,10	R 80 x 17 x 7,0 x 5,5	36,34
UNJC 5/16-18h	7,94	6,60	R 90 x 20 x 8,0 x 6,2	41,12
UNJC 3/8-16h	9,52	8,00	R 100 x 22 x 8,0 x 6,2	46,88

	D1 mm		L1 x L2 x D2 x  mm	MTR
				FORMA C €
UNJF nº 4-48h	2,84	2,35	R 56 x 11 x 3,5 x 2,7	42,72
UNJF nº 5-44h	3,17	2,70	R 56 x 11 x 3,5 x 2,7	42,72
UNJF nº 6-40h	3,50	2,95	R 56 x 12 x 4,0 x 3,0	42,72
UNJF nº 8-36h	4,17	3,50	R 63 x 13 x 4,5 x 3,4	42,72
UNJF nº 10-32h	4,83	4,10	R 70 x 15 x 6,0 x 4,9	42,72
UNJF nº 12-28h	5,49	4,60	R 80 x 16 x 6,0 x 4,9	42,72
UNJF 1/4-28h	6,35	5,50	R 80 x 17 x 7,0 x 5,5	33,17
UNJF 5/16-24h	7,94	6,90	R 90 x 20 x 8,0 x 6,2	37,09
UNJF 3/8-24h	9,52	8,50	R 90 x 16 x 7,0 x 6,2	40,61

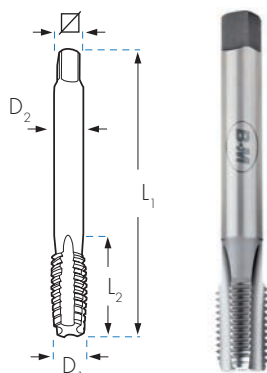
MANGO DELGADO PASOS NORMALES				M1D
UNJC 7/16-14h	11,11	9,40	D 110 x 24 x 9,0 x 7,0	64,65
UNJC 1/2-13h	12,70	10,75	D 110 x 26 x 11,0 x 9,0	70,17
UNJC 9/16-12h	14,28	12,20	D 110 x 27 x 12,0 x 9,0	96,45
UNJC 5/8-11h	15,87	13,50	D 110 x 27 x 12,0 x 9,0	98,87
UNJC 3/4-10h	19,05	16,50	D 125 x 30 x 14,0 x 11,0	124,05
UNJC 7/8-9h	22,22	19,50	D 140 x 32 x 18,0 x 14,5	163,23
UNJC 1"-8h	25,40	22,25	D 160 x 36 x 18,0 x 14,5	215,66

MANGO DELGADO PASOS NORMALES				M1D
UNJF 7/16-20h	11,11	9,90	D 100 x 22 x 8,0 x 6,2	55,77
UNJF 1/2-20h	12,70	11,50	D 100 x 22 x 9,0 x 7,0	59,39
UNJF 9/16-18h	14,29	12,90	D 100 x 22 x 11,0 x 9,0	72,97
UNJF 5/8-18h	15,87	14,50	D 100 x 22 x 12,0 x 9,0	82,15
UNJF 3/4-16h	19,05	17,50	D 110 x 25 x 14,0 x 11,0	105,10
UNJF 7/8-14h	22,22	20,40	D 125 x 25 x 18,0 x 14,5	132,16
UNJF 1"-12h	25,40	23,25	D 140 x 28 x 18,0 x 14,5	147,35

MACHOS PARA ROSCAR A MÁQUINA HSSCo

BSPP **DIN 2999** **55°** **HSSCo 5%** **DIN 374** **FORMA C**

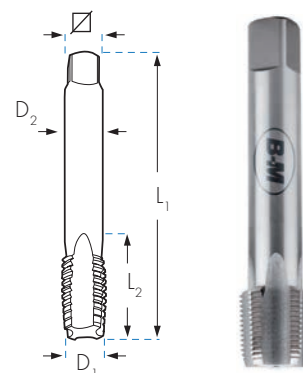
ROSCA CILÍNDRICA INGLESA PARA TUBO



	D1 mm	L1 x L2 x D2 x ∇ mm	MTD €
Rp 1/16-28h.	7,72	D 90 x 16 x 6 x 4,9	
Rp 1/8-28h.	9,73	D 90 x 16 x 7 x 5,5	50,65
Rp 1/4-19h.	13,16	D 100 x 22 x 11 x 9,0	69,96
Rp 3/8-19h.	16,66	D 100 x 22 x 12 x 9,0	83,77
Rp 1/2-14h.	20,95	D 125 x 25 x 16 x 12,0	105,87
Rp 3/4-14h.	26,44	D 140 x 28 x 20 x 16,0	165,78
Rp 1"-11h.	33,25	D 160 x 30 x 25 x 20,0	257,22
Rp 1.1/4-11h.	41,91	D 170 x 30 x 32 x 24,0	
Rp 1.1/2-11h.	46,80	D 190 x 32 x 36 x 29,0	
Rp 2"-11h.	59,61	D 220 x 36 x 45 x 35,0	

BSPT **BS21 ISO7/1** **55°** **HSSCo 5%** **DIN 5156** **FORMA C**

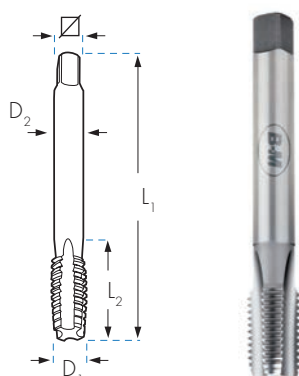
ROSCA CÓNICA INGLESA PARA TUBO



	D1 mm	∇	L1 x L2 x D2 x ∇ mm	MTD €
Rc 1/16-28h.	7,72		D 90 x 14 x 6 x 4	
Rc 1/8-28h.	9,73	8,30	D 90 x 15 x 7 x 5	51,82
Rc 1/4-19h.	13,16	11,00	D 100 x 19 x 11 x 9	74,53
Rc 3/8-19h.	16,66	14,50	D 100 x 21 x 12 x 9	103,58
Rc 1/2-14h.	20,95	18,10	D 125 x 26 x 16 x 12	143,92
Rc 5/8-14h.	22,91	21,00	D 140 x 36 x 18 x 19	232,16
Rc 3/4-14h.	26,44	23,50	D 140 x 28 x 20 x 16	224,47
Rc 7/8-14h.	30,20	28,25	D 160 x 36 x 22 x 18	390,60
Rc 1"-11h.	33,25	29,60	D 160 x 33 x 25 x 20	321,71

NPS (M) **ANSI B 1.20.1** **60°** **HSSCo 5%** **DIN 374** **FORMA C**

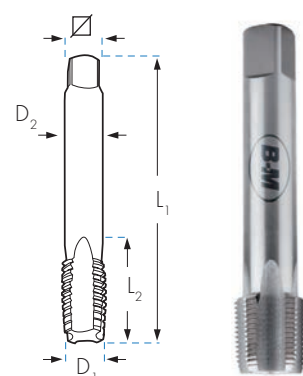
ROSCA CILÍNDRICA AMERICANA PARA TUBO



	D1 mm	∇	L1 x L2 x D2 x ∇ mm	MTD €
NPS 1/8-27h.	10,20	8,90	D 90 x 16 x 7 x 5,5	130,46
NPS 1/4-18h.	13,60	11,70	D 100 x 22 x 11 x 9,0	186,72
NPS 3/8-18h.	17,00	15,00	D 100 x 22 x 12 x 9,0	256,05
NPS 1/2-14h.	21,20	18,60	D 125 x 25 x 16 x 12,0	351,11
NPS 3/4-14h.	26,55	24,00	D 140 x 28 x 20 x 16,0	519,05
NPS 1"-11,5 h.	33,20	30,00	D 160 x 30 x 25 x 20,0	671,23
NPS 1.1/4-11,5h.	41,60		D 170 x 30 x 32 x 24,0	
NPS 1.1/2-11,5h.	47,68		D 190 x 32 x 36 x 29,0	
NPS 2"-11,5h.	59,71		D 220 x 36 x 45 x 35,0	

NPT **ANSI B 1.20.1** **60°** **HSSCo 5%** **DIN 374** **FORMA C**

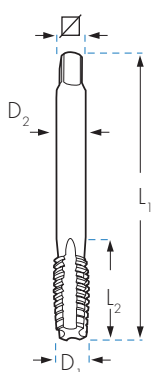
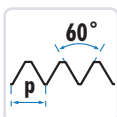
ROSCA CÓNICA AMERICANA PARA TUBO



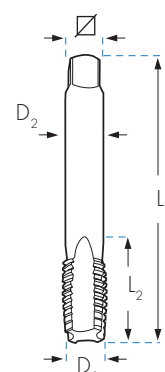
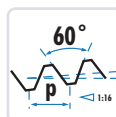
	D1 mm	∇	L1 x L2 x D2 x ∇ mm	MTD €
NPT 1/16-27h.	7,89	6,2	D 90 x 14 x 6 x 5	45,39
NPT 1/8-27h.	10,24	8,5	D 90 x 15 x 8 x 6	47,47
NPT 1/4-18h.	13,62	11,0	D 100 x 19 x 11 x 9	61,30
NPT 3/8-18h.	17,05	14,5	D 100 x 21 x 12 x 9	78,80
NPT 1/2-14h.	21,22	17,8	D 125 x 26 x 16 x 12	102,51
NPT 3/4-14h.	26,57	23,0	D 140 x 28 x 20 x 16	158,83
NPT 1"-11,5h.	33,23	29,0	D 160 x 33 x 25 x 20	206,44
NPT 1.1/4-11,5h.	41,98	37,5	D 170 x 36 x 32 x 24	281,86
NPT 1.1/2-11,5h.	48,05	44,0	D 190 x 37 x 36 x 29	443,82
NPT 2"-11,5h.	60,09	56,0	D 220 x 41 x 45 x 35	696,18

MACHOS PARA ROSCAR A MÁQUINA HSSCo

NPSF

HSSCo
5%DIN
374FORMA
CROSCA PARA TUBO
AMERICANA CILÍNDRICA

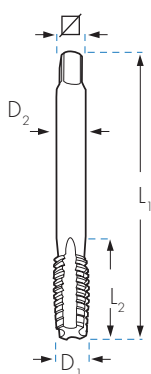
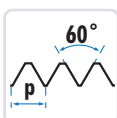
NPTF

HSSCo
5%DIN
374FORMA
CROSCA PARA TUBO
AMERICANA CÓNICA ESTANCA

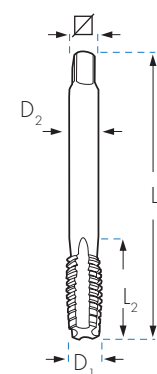
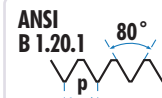
	D1 mm		L1 x L2 x D2 x ∇ mm	M1D €
NPSF 1/8-27h.	10,05	8,75	D 90 x 16 x 7 x 5,5	163,42
NPSF 1/4-18h.	13,33	11,30	D 100 x 22 x 11 x 9,0	225,25
NPSF 3/8-18h.	16,78	14,70	D 100 x 22 x 12 x 9,0	320,44
NPSF 1/2-14h.	20,87	18,20	D 125 x 25 x 16 x 12,0	399,60
NPSF 3/4-14h.	26,23	23,50	D 140 x 28 x 20 x 16,0	654,00
NPSF 1"-11,5h.	32,81	29,50	D 160 x 30 x 25 x 20,0	

	D1 mm		L1 x L2 x D2 x ∇ mm	M1D €
NPTF 1/16-27h.	7,87	6,20	D 90 x 14 x 12,0 x 6	
NPTF 1/8-27h.	10,22	8,50	D 90 x 15 x 12,0 x 7	110,41
NPTF 1/4-18h.	13,58	11,00	D 100 x 21 x 17,5 x 11	154,90
NPTF 3/8-18h.	17,02	14,50	D 110 x 21 x 17,6 x 12	198,99
NPTF 1/2-14h.	21,21	17,80	D 140 x 27 x 22,8 x 16	259,05
NPTF 3/4-14h.	26,56	23,00	D 140 x 27 x 23,0 x 20	401,32

MF

HSSCo
5%TOL
6HFORMA
CDIN
374ROSCA MÉTRICA FINA PARA
TUBO DE CONDUCCIÓN
ELÉCTRICA EN 60423

PG

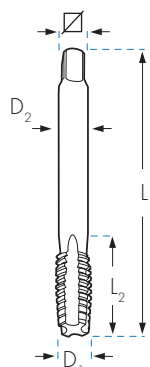
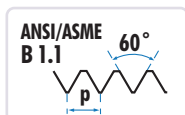
HSSCo
5%DIN
40430FORMA
CROSCA PARA TUBO
DE CONDUCCIÓN
ELÉCTRICA

	D1 mm		L1 x L2 x D2 x ∇ mm	M1D €
MF 12 x 1,50	12	10,5	D 100 x 22 x 9 x 7,0	27,86
MF 16 x 1,50	16	14,5	D 100 x 22 x 12 x 9,0	39,23
MF 20 x 1,50	20	18,5	D 125 x 25 x 16 x 12,0	58,83
MF 25 x 1,50	25	23,5	D 140 x 28 x 18 x 14,5	135,50
MF 32 x 1,50	32	30,5	D 150 x 28 x 22 x 18,0	169,12
MF 40 x 1,50	40	38,5	D 170 x 30 x 32 x 24,0	284,85
MF 50 x 1,50	50	48,5	D 190 x 32 x 36 x 29,0	443,49
MF 63 x 1,50	63	61,5	D 275 x 36 x 50 x 39,0	

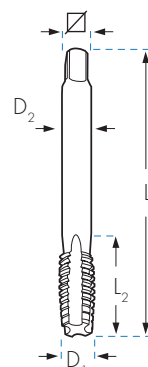
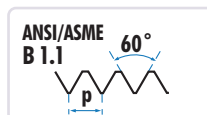
	D1 mm		L1 x L2 x D2 x ∇ mm	M1D €
PG 7 - 20h.	12,5	11,50	D 100 x 22 x 9 x 7,0	48,45
PG 9 - 18h.	15,2	14,00	D 100 x 22 x 12 x 9,0	67,10
PG 11 - 18h.	18,6	17,25	D 110 x 25 x 14 x 11,0	87,30
PG 13,5 - 18h.	20,4	19,00	D 125 x 25 x 16 x 12,0	98,04
PG 16 - 18h.	22,5	21,25	D 125 x 25 x 18 x 14,5	115,38
PG 21 - 16h.	28,3	27,00	D 150 x 28 x 22 x 18,0	183,17
PG 29 - 16h.	37,0	35,50	D 170 x 30 x 28 x 22,0	309,65
PG 36 - 16h.	47,0	45,50	D 190 x 32 x 36 x 29,0	502,89
PG 42 - 16h.	54,0	52,50	D 190 x 32 x 40 x 32,0	798,67
PG 48 - 16h.	59,3	58,00	D 220 x 36 x 45 x 35,0	973,64

MACHOS PARA ROSCAR A MÁQUINA HSSCo

UNx8 HSSCo 5% DIN 374 FORMA C TOL 2B



UNEF HSSCo 5% DIN 374 TOL 2B

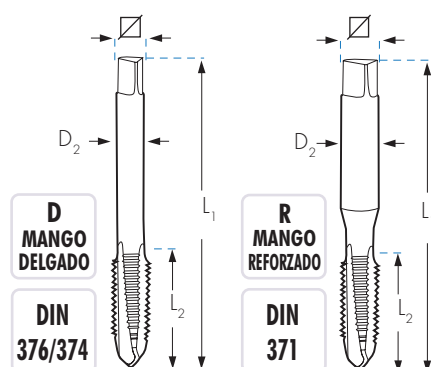
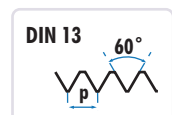


		D2 mm	L1 x L2 x	M1D FORMA C €
UN 1" 1/8-8h.		25,40	22 180 x 45 x 18	240,85
UN 1" 1/4-8h.		28,50	22 180 x 48 x 18	310,74
UN 1" 3/8-8h.		31,75	28 200 x 56 x 22	352,49
UN 1" 1/2-8h.		35,00	32 200 x 58 x 22	448,49
UN 1" 5/8-8h.		38,10	32 200 x 65 x 24	524,62
UN 1" 3/4-8h.		41,25	36 200 x 50 x 29	639,07
UN 1" 7/8-8h.		44,45	36 225 x 53 x 29	737,18
UN 2"-8h.		47,63	40 225 x 50 x 32	753,23

		D2 mm	L1 x L2 x	M2D FORMA B €	M4D 35° €
UNEF 1/4-32h.		5,55	7,0 R 82 x 16 x 5,4	99,66	112,00
UNEF 5/16-32h.		7,15	8,4 R 85 x 21 x 6,1	109,81	123,38
UNEF 3/8-32h.		8,70	7,0 D 95 x 22 x 5,4	109,87	123,45
UNEF 7/16-28h.		10,20	8,0 D 100 x 22 x 6,2	145,83	163,85
UNEF 1/2-28h.		11,80	9,0 D 100 x 22 x 7,0	153,60	172,59
UNEF 9/16-24h.		13,20	12,0 D 100 x 24 x 9,0	192,44	216,23
UNEF 5/8-24h.		14,80	12,0 D 100 x 24 x 9,0	218,99	246,06
UNEF 3/4-20h.		17,80	14,0 D 110 x 27 x 11,0	284,81	320,04
UNEF 7/8-20h.		20,95	18,0 D 125 x 26 x 14,5	306,15	328,02
UNEF 1"-20h.		24,20	18,0 D 140 x 28 x 14,5	468,51	526,42

MACHOS PARA ROSCAR A MÁQUINA HSSCo ROSCA A IZQUIERDA

M MF HSSCo 5% FORMA C TOL 6H



			L1 x L2 x D2 x	M1RI FORMA C €
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	22,66
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	25,79
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	23,09
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	26,27
M 7x1,00	6,00	R	80 x 17 x 7,0 x 5,5	34,07
M 8x1,25	6,80	R	90 x 20 x 8,0 x 6,2	29,68
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	33,64

			MANGO DELGADO	M1DI
M 12x1,50	10,50	D	100 x 22 x 9,0 x 7,0	55,72
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	40,15
M 14x1,50	12,50	D	100 x 22 x 11,0 x 9,0	66,36
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0	65,92
M 16x1,50	14,50	D	100 x 22 x 12,0 x 9,0	78,46
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0	77,59
M 18x1,50	16,50	D	110 x 25 x 14,0 x 11,0	103,88
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0	111,62
M 20x1,50	18,50	D	125 x 25 x 16,0 x 12,0	117,65
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0	118,81
M 22x2,50	19,50	D	140 x 32 x 18,0 x 14,5	143,77
M 24x2,00	22,00	D	140 x 28 x 18,0 x 14,5	222,23
M 24x3,00	21,00	D	160 x 34 x 18,0 x 14,5	172,11
M 27x3,00	24,00	D	160 x 36 x 20,0 x 16,0	214,86
M 30x2,00	28,00	D	150 x 28 x 22,0 x 18,0	330,88
M 30x3,50	26,50	D	180 x 40 x 22,0 x 18,0	275,33
M 33x3,50	29,50	D	180 x 40 x 25,0 x 20,0	330,88
M 36x4,00	32,00	D	200 x 50 x 28,0 x 22,0	434,27

Consulte otras medidas disponibles bajo demanda

MACHOS MÁQUINA MÉTRICA NORMA ISO 529

M
MF

DIN 13

HSSCo

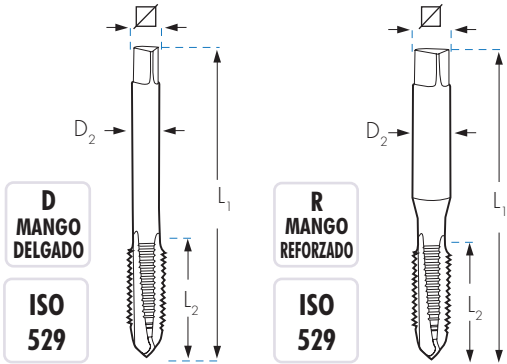
5%

ISO

529

TOL

6H

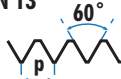


		L ₁ x L ₂ x D ₂ x  mm	M1RISO	M2RISO	M4RISO	M5RISO
			FORMA C	FORMA B	 35°	DIENTE ALTERNO AI
			€	€	€	€
M 3x0,50	2,50	R 48 x 11 x 3,15 x 2,50	8,17	8,52	10,26	12,20
M 4x0,70	3,30	R 53 x 13 x 4,00 x 3,15	8,17	8,52	10,26	12,20
M 5x0,80	4,20	R 58 x 16 x 5,00 x 4,00	8,17	8,52	10,26	12,20
M 6x1,00	5,00	R 66 x 19 x 6,30 x 5,00	8,17	8,52	10,48	12,20
M 7x1,00	6,00	R 66 x 19 x 7,10 x 5,60		12,12	13,91	
M 8x1,00	7,00	R 69 x 19 x 8,00 x 6,30		16,72	17,16	
M 8x1,25	6,75	R 72 x 22 x 8,00 x 6,30	10,92	11,37	11,76	13,33
M 9x1,25	7,75	R 76 x 20 x 10,00 x 8,00		18,09	20,66	
M 10x1,00	9,00	R 76 x 20 x 10,00 x 8,00		19,18	20,95	
M 10x1,25	8,80	R 76 x 20 x 10,00 x 8,00		22,93	23,67	
M 10x1,50	8,50	R 80 x 24 x 10,00 x 8,00	13,89	14,47	15,16	16,82
MANGO DELGADO			M1DISO	M2DISO	M4DISO	M5DISO
M 12x1,00	11,00	D 84 x 24 x 9,00 x 7,10		26,42	27,07	
M 12x1,25	10,75	D 84 x 24 x 9,00 x 7,10		25,95	26,87	
M 12x1,50	10,50	D 89 x 29 x 9,00 x 7,10		23,15	24,93	
M 12x1,75	10,20	D 89 x 29 x 9,00 x 7,10	17,85	18,59	19,69	25,16
M 14x1,00	13,00	D 90 x 25 x 11,20 x 9,00		33,09	41,16	
M 14x1,25	12,80	D 90 x 25 x 11,20 x 9,00		27,94	34,99	
M 14x1,50	12,50	D 95 x 30 x 12,50 x 9,00		24,55	27,59	
M 14x2,00	12,00	D 95 x 30 x 11,20 x 9,00	21,34	22,23	26,91	
M 16x1,00	15,00	D 95 x 25 x 12,50 x 10,00		42,10	54,18	
M 16x1,25	14,75	D 102 x 32 x 12,50 x 10,00		46,68	60,08	
M 16x1,50	14,50	D 102 x 32 x 14,00 x 10,00		29,47	33,02	
M 16x2,00	14,00	D 102 x 32 x 12,50 x 10,00	26,50	27,60	31,22	
M 18x1,50	16,50	D 104 x 29 x 14,00 x 11,20		38,93	53,20	
M 18x2,50	15,50	D 112 x 37 x 14,00 x 11,20	39,90	41,56	51,96	
M 20x1,50	18,50	D 104 x 29 x 14,00 x 11,20		50,10	61,28	
M 20x2,50	17,50	D 112 x 37 x 14,00 x 11,20	44,60	46,46	58,07	
M 22x2,50	19,50	D 118 x 38 x 16,00 x 12,50	51,57	53,72	67,15	
M 24x3,00	21,00	D 130 x 45 x 18,00 x 14,00	58,26	60,69	75,85	
M 27x3,00	24,00	D 135 x 45 x 20,00 x 16,00	71,74	74,73	93,42	
M 30x3,50	26,50	D 138 x 48 x 20,00 x 16,00	106,59	111,04	138,79	

MACHOS MÁQUINA CORTOS DIN 352

M
MF

DIN 13

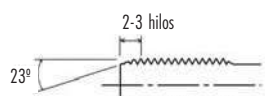


HSS

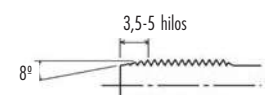
HSSCo
5%

DIN
352

TOL
6H



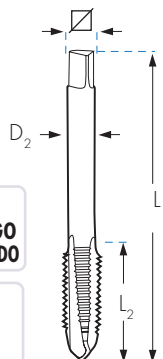
Ref. M03: Cono de entrada 2-3 hilos



Ref. M02AT: Cono de entrada 3,5-5 hilos

D
MANGO
DELGADO

DIN
352



		L1 x L2 x D2 x 	M03	M02AT	M03X	M02DIN	M04DIN
			HSS €	ALTURA TERMINADA HSS €	INOX HSSCo €	FORMA B HSS €	 HSS €
M 3x0,50	2,50	D 40 x 11 x 3,50 x 2,70	7,36	9,93	13,14	9,37	11,29
M 4x0,70	3,30	D 45 x 13 x 4,50 x 3,40	7,35	9,92	13,14	9,37	11,29
M 5x0,80	4,20	D 50 x 16 x 6,00 x 4,90	7,86	10,62	13,68	9,37	11,29
M 6x1,00	5,00	D 50 x 19 x 6,00 x 4,90	7,86	10,62	13,63	9,37	11,53
M 7x1,00	6,00	D 50 x 19 x 6,00 x 4,90	9,58				
M 8x1,00	7,00	D 56 x 18 x 6,00 x 4,90	13,25				
M 8x1,25	6,75	D 56 x 22 x 6,00 x 4,90	9,57	12,92	15,87	12,51	13,98
M 9x1,25	7,75	D 63 x 18 x 7,00 x 5,50	15,67				
M 10x1,00	9,00	D 63 x 18 x 7,00 x 5,50	14,19				
M 10x1,25	8,80	D 70 x 24 x 7,00 x 5,50	14,38				
M 10x1,50	8,50	D 70 x 24 x 7,00 x 5,50	11,80	15,92	20,41	15,91	17,62
M 12x1,00	11,00	D 70 x 20 x 9,00 x 7,00	25,16				
M 12x1,25	10,75	D 70 x 20 x 9,00 x 7,00	25,08				
M 12x1,50	10,50	D 70 x 20 x 9,00 x 7,00	21,37				
M 12x1,75	10,20	D 75 x 29 x 9,00 x 7,00	16,60	22,42	29,23	20,46	22,94
M 14x1,00	13,00	D 70 x 20 x 11,00 x 9,00	39,21				
M 14x1,25	12,80	D 70 x 20 x 11,00 x 9,00	30,63				
M 14x1,50	12,50	D 70 x 20 x 11,00 x 9,00	23,82				
M 14x2,00	12,00	D 80 x 30 x 11,00 x 9,00	18,36	24,79	32,37	24,45	29,61
M 16x1,00	15,00	D 70 x 20 x 12,00 x 9,00	52,02				
M 16x1,25	14,75	D 70 x 20 x 12,00 x 9,00	54,75				
M 16x1,50	14,50	D 70 x 20 x 12,00 x 9,00	29,64				
M 16x2,00	14,00	D 80 x 32 x 12,00 x 9,00	26,27		44,37	30,37	34,33
M 18x1,50	16,50	D 80 x 22 x 14,00 x 11,00	39,05				
M 18x2,50	15,50	D 95 x 40 x 14,00 x 11,00	34,67		60,59	45,72	57,16
M 20x1,50	18,50	D 80 x 22 x 16,00 x 12,00	48,90				
M 20x2,50	17,50	D 95 x 40 x 16,00 x 12,00	38,89		67,26	51,10	63,88
M 22x2,50	19,50	D 100 x 40 x 18,00 x 14,50	51,81			59,08	73,87
M 24x3,00	21,00	D 110 x 50 x 18,00 x 14,50	61,79			66,76	83,44
M 27x3,00	24,00	D 110 x 50 x 20,00 x 16,00	78,14			86,17	94,59
M 30x3,50	26,50	D 125 x 50 x 22,00 x 18,00	100,53			118,03	121,22