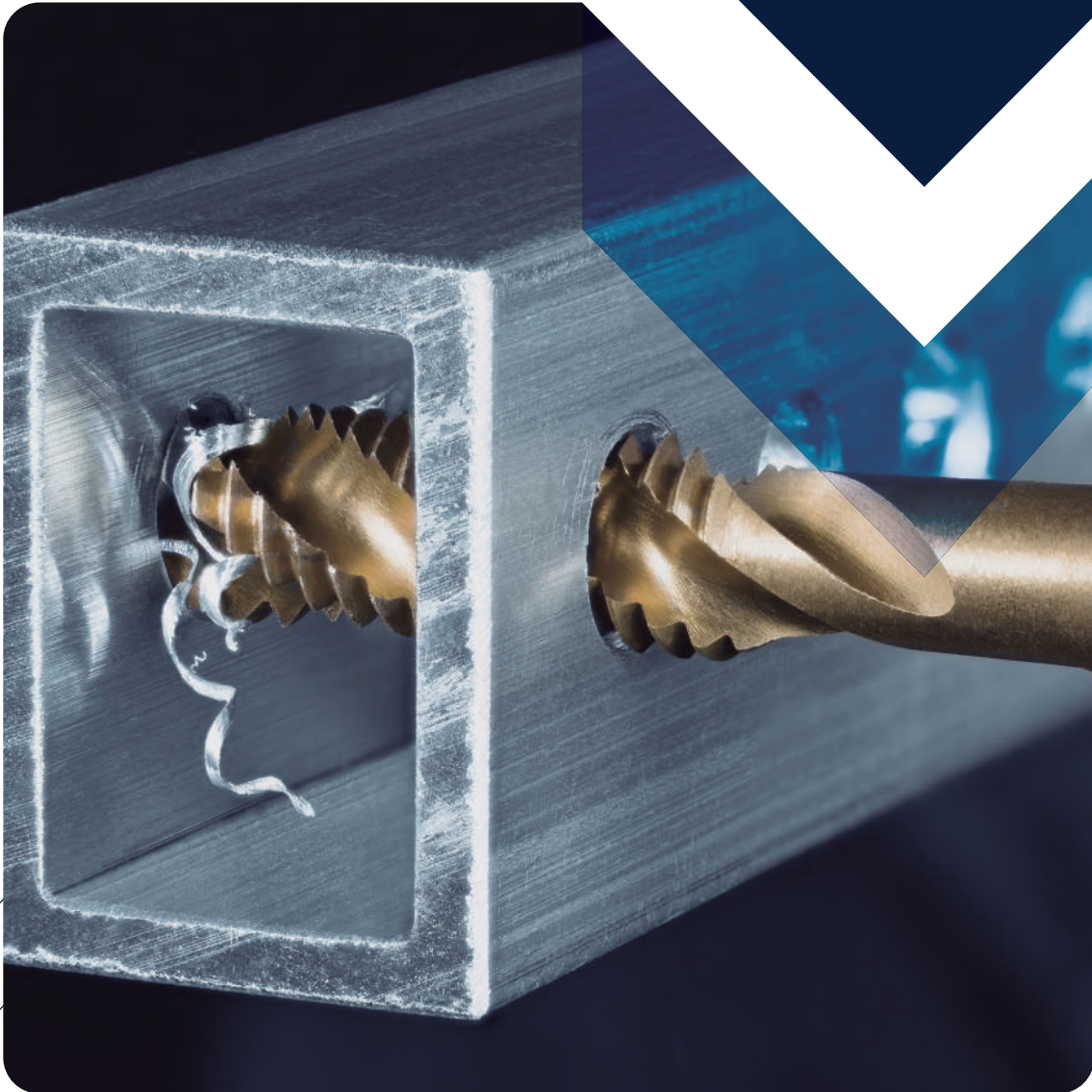
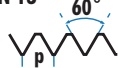


BLUE-MASTER[®]
by *celesa*



THREADING
TOOLS

HSS HAND TAPS AND DIES
M
MF
DIN 13


Ref. M0


HSS
DIN
352
DIN
2181
TOL
6H

Ref. C5

HSS
DIN
223
TOL
6g

For hardness materials up to 38 HRc



			M0			C5		
	Pcs.	\emptyset	L1 x L2 x mm	€	\emptyset x L3 mm	€	\emptyset x L3 mm	€
M 5,5x0,90	3	4,60	50 x 16 x 4,9	95,70	25 x 9	109,86		
M 6x0,50	2	5,50	50 x 14 x 4,9	32,50	20 x 5	42,50		
M 6x0,75	2	5,25	50 x 14 x 4,9	27,43	25 x 9	34,86		
M 6x1,00	3	5,00	50 x 19 x 4,9	24,29*	25 x 9	31,02*		
M 6x1,25	3	4,75	50 x 19 x 4,9	157,01	25 x 9	112,49		
M 7x0,75	2	6,25	50 x 14 x 4,9	36,01	25 x 9	34,51		
M 7x1,00	3	6,00	50 x 19 x 4,9	29,59*	25 x 9	32,56*		
M 7x1,25	3	5,75	50 x 19 x 4,9	109,10	25 x 9	135,20		
M 8x0,50	2	7,50	50 x 16 x 4,9	57,32	25 x 9	51,53		
M 8x0,75	2	7,25	50 x 16 x 4,9	37,73	25 x 9	37,32		
M 8x1,00	2	7,00	56 x 18 x 4,9	27,30*	25 x 9	35,98*		
M 8x1,25	3	6,80	56 x 22 x 4,9	29,56*	25 x 9	32,91*		
M 8x1,50	3	6,50	56 x 22 x 4,9	106,11	25 x 9	117,54		
M 9x1,00	2	8,00	63 x 18 x 5,5	39,97	25 x 9	39,99		
M 9x1,25	3	7,80	63 x 22 x 5,5	48,43*	25 x 9	38,25*		
M 10x0,50	2	9,50	63 x 18 x 5,5	59,10	30 x 10	129,87		
M 10x0,75	2	9,25	63 x 18 x 5,5	60,43	30 x 11	63,85		
M 10x1,00	2	9,00	63 x 18 x 5,5	29,23	38 x 10	42,34		
M 10x1,25	2	8,80	70 x 24 x 5,5	29,63	38 x 10	45,16		
M 10x1,50	3	8,50	70 x 24 x 5,5	36,45*	38 x 10	44,05*		
M 11x0,75	2	10,25	63 x 18 x 6,2	88,73	30 x 11	140,31		
M 11x1,00	2	10,00	63 x 18 x 6,2	55,90	30 x 11	66,82		
M 11x1,25	2	9,75	63 x 20 x 6,2	55,90	30 x 11	66,81		
M 11x1,50	3	9,50	70 x 24 x 6,2	60,76	38 x 10	53,37		
M 12x0,75	2	11,25	70 x 20 x 7,0	80,68	38 x 10	72,45		
M 12x1,00	2	11,00	70 x 20 x 7,0	51,83	38 x 10	63,85		
M 12x1,25	2	10,75	70 x 20 x 7,0	51,68	38 x 10	61,56		
M 12x1,50	2	10,50	70 x 20 x 7,0	44,03*	38 x 10	55,21*		
M 12x1,75	3	10,20	75 x 29 x 7,0	51,28*	38 x 14	47,86*		
M 13x0,75	2	12,25	70 x 20 x 9,0	91,18	38 x 10	127,74		
M 13x1,00	2	12,00	70 x 20 x 9,0	87,78	38 x 10	67,84		
M 13x1,25	2	11,75	70 x 20 x 9,0	80,13	38 x 10	90,71		
M 13x1,50	2	11,50	70 x 20 x 9,0	80,13	38 x 10	71,31		
M 13x1,75	3	11,25	70 x 20 x 9,0	92,72	38 x 14	76,41		
M 14x0,75	2	13,25	70 x 20 x 9,0	104,78	38 x 10	119,77		
M 14x1,00	2	13,00	70 x 20 x 9,0	80,78	38 x 10	71,61		
M 14x1,25	2	12,80	70 x 20 x 9,0	63,10*	38 x 10	71,61*		
M 14x1,50	2	12,50	70 x 20 x 9,0	49,07	38 x 10	60,96		
M 14x1,75	2	12,25	70 x 20 x 9,0	98,13	38 x 14	203,96		
M 14x2,00	3	12,00	80 x 30 x 9,0	56,73*	38 x 14	47,39*		
M 15x1,00	2	14,00	70 x 20 x 9,0	113,18	45 x 14	77,11		
M 15x1,25	2	13,75	70 x 20 x 9,0	117,27	45 x 14	119,46		
M 15x1,50	2	13,50	70 x 20 x 9,0	104,99	45 x 14	82,61		
M 15x2,00	3	13,00	80 x 30 x 9,0	113,43	45 x 14	103,55		
M 16x1,00	2	15,00	70 x 20 x 9,0	107,16	45 x 14	87,31		
M 16x1,25	2	14,75	70 x 20 x 9,0	112,80	45 x 14	73,46		
M 16x1,50	2	14,50	70 x 20 x 9,0	61,06*	45 x 14	68,58*		
M 16x2,00	3	14,00	80 x 32 x 9,0	81,17*	45 x 18	64,25*		
M 17x1,00	2	16,00	70 x 20 x 9,0	173,07	45 x 14	124,94		
M 17x1,25	2	15,75	70 x 20 x 9,0	173,07	45 x 14	124,94		
M 17x1,50	2	15,50	70 x 20 x 9,0	173,07	45 x 14	124,94		
M 18x1,00	2	17,00	80 x 22 x 11,0	119,14	45 x 14	92,32		
M 18x1,25	2	16,75	80 x 22 x 11,0	170,07	45 x 14	96,02		

* Check the price of left hand sets of taps and dies available in page 188.

* Extra-fee of 20% for adjustable die

HSS HAND TAPS AND DIES

M MF	DIN 13		Ref. M0	(M)	(MF)	Ref. C5
HSS				DIN 352	DIN 2181	TOL 6H
HSS				DIN 223	TOL 6g	

Threading tools

Green

	Pcs.		M0		C5			Pcs.		M0		C5	
			L1 x L2 x mm	€	Ø x L3 mm	€				L1 x L2 x mm	€	Ø x L3 mm	€
M 18x1,50	2	16,50	80 x 22 x 11,0	80,44	45 x 14	83,06	M 33x3,50	3	29,5	125 x 50 x 20,0	390,08*	65 x 25	147,36*
M 18x2,00	2	16,00	80 x 22 x 11,0	128,40*	45 x 14	92,80*	M 34x1,50	2	32,5	100 x 25 x 22,0	400,85	65 x 18	168,65
M 18x2,50	3	15,50	95 x 40 x 11,0	107,13*	45 x 18	64,28*	M 34x2,00	2	32,0	100 x 25 x 22,0	479,38	65 x 18	384,96
M 19x1,00	2	18,00	80 x 22 x 11,0	251,18	45 x 14	154,96	M 35x1,50	2	33,5	100 x 25 x 22,0	427,97	65 x 18	174,93
M 19x1,25	2	17,75	80 x 22 x 11,0	251,18	45 x 14	175,26	M 35x2,00	2	33,0	100 x 25 x 22,0	479,38	65 x 18	300,20
M 19x1,50	2	17,50	80 x 22 x 11,0	251,18	45 x 14	154,96	M 36x1,50	2	34,5	100 x 25 x 22,0	417,83	65 x 18	165,60
M 19x2,00	2	17,00	80 x 22 x 11,0	298,17	45 x 14	177,03	M 36x2,00	2	34,0	125 x 33 x 22,0	550,33	65 x 18	172,71
M 20x1,00	2	19,00	80 x 22 x 12,0	162,19	45 x 14	92,32	M 36x3,00	2	33,0	125 x 33 x 22,0	713,13*	65 x 25	173,28*
M 20x1,25	2	18,75	80 x 22 x 12,0	250,26	45 x 14	200,36	M 36x4,00	3	32,0	150 x 53 x 22,0	502,21*	65 x 25	150,23*
M 20x1,50	2	18,50	80 x 22 x 12,0	100,74	45 x 14	84,98	M 38x1,50	2	36,5	100 x 25 x 22,0	482,93	75 x 20	253,02
M 20x2,00	2	18,00	80 x 22 x 12,0	136,00*	45 x 14	92,32*	M 38x2,00	2	36,0	125 x 25 x 22,0	649,97	75 x 20	373,86
M 20x2,50	3	17,50	95 x 40 x 12,0	120,18*	45 x 18	63,27*	M 39x1,50	2	37,5	110 x 25 x 24,0	639,19	75 x 20	251,67
M 21x1,00	2	20,00	80 x 22 x 12,0	321,81	45 x 14	189,84	M 39x2,00	2	37,0	125 x 23 x 24,0	639,19	75 x 20	265,78
M 21x1,25	2	19,75	80 x 22 x 12,0	321,81	45 x 14	189,84	M 39x3,00	2	36,0	125 x 33 x 24,0	616,56*	75 x 30	271,46*
M 21x1,50	2	19,50	80 x 22 x 12,0	250,52	45 x 14	200,68	M 39x4,00	3	35,0	150 x 53 x 24,0	561,94*	75 x 30	228,51*
M 22x1,00	2	21,00	80 x 22 x 14,5	181,77	55 x 16	124,27	M 40x1,50	2	38,5	110 x 25 x 24,0	567,12	75 x 20	264,37
M 22x1,25	2	20,75	80 x 22 x 14,5	247,85	55 x 16	202,51	M 40x2,00	2	38,0	125 x 33 x 24,0	624,51	75 x 20	245,49
M 22x1,50	2	20,50	80 x 22 x 14,5	110,80	55 x 16	106,90	M 40x3,00	2	37,0	125 x 33 x 24,0	622,22	75 x 30	267,74
M 22x2,00	2	20,00	80 x 22 x 14,5	176,74*	55 x 16	118,94*	M 42x1,50	2	40,5	110 x 25 x 24,0	616,44	75 x 20	293,95
M 22x2,50	3	19,50	100 x 40 x 14,5	160,08*	55 x 22	95,08*	M 42x2,00	2	40,0	125 x 33 x 24,0	730,75	75 x 20	310,82
M 23x1,00	2	22,00	80 x 22 x 14,5	324,61	55 x 16	205,35	M 42x3,00	2	39,0	125 x 33 x 24,0	733,90	75 x 30	293,95
M 23x1,50	2	21,50	80 x 22 x 14,5	323,35	55 x 16	243,45	M 42x4,50	3	37,5	150 x 53 x 24,0	703,09	75 x 30	228,49
M 24x1,00	2	23,00	90 x 22 x 14,5	196,13	55 x 16	121,20	M 45x1,50	2	43,5	110 x 25 x 29,0	673,32	90 x 22	343,49
M 24x1,25	2	22,75	90 x 22 x 14,5	320,56	55 x 16	160,91	M 45x2,00	2	43,0	125 x 33 x 29,0	877,59	90 x 22	372,89
M 24x1,50	2	22,50	90 x 22 x 14,5	141,24	55 x 16	108,92	M 45x3,00	2	42,0	125 x 33 x 29,0	877,59	90 x 36	389,06
M 24x2,00	2	22,00	90 x 22 x 14,5	210,75*	55 x 16	121,20*	M 45x4,50	3	40,5	160 x 60 x 29,0	811,67	90 x 36	354,06
M 24x3,00	3	21,00	110 x 50 x 14,5	190,94*	55 x 22	95,08*	M 48x1,50	2	46,5	140 x 33 x 29,0	751,72	90 x 22	335,65
M 25x1,00	2	24,00	90 x 22 x 14,5	276,69	55 x 16	183,94	M 48x2,00	2	46,0	140 x 33 x 29,0	1.146,95	90 x 22	367,66
M 25x1,25	2	23,75	90 x 22 x 14,5	362,36	55 x 16	242,19	M 48x3,00	2	45,0	140 x 33 x 29,0	1.063,46	90 x 36	354,68
M 25x1,50	2	23,50	90 x 22 x 14,5	261,04	55 x 16	158,22	M 48x5,00	3	43,0	180 x 65 x 29,0	977,24	90 x 36	354,48
M 25x2,00	2	23,00	90 x 22 x 14,5	471,88	55 x 16	235,47	M 50x1,50	2	48,5	140 x 33 x 29,0	822,10	90 x 22	350,00
M 26x1,00	2	25,00	90 x 22 x 14,5	247,33	55 x 16	182,31	M 50x3,00	2	57,0	140 x 33 x 29,0	1.097,87	90 x 22	381,44
M 26x1,50	2	24,50	90 x 22 x 14,5	232,06	55 x 16	146,98	M 52x1,50	2	50,5	140 x 33 x 32,0	862,35	90 x 22	357,40
M 26x2,00	2	24,00	90 x 22 x 14,5	272,28	55 x 16	206,02	M 52x2,00	2	50,0	140 x 33 x 32,0	1.251,19	90 x 22	415,35
M 27x1,00	2	26,00	90 x 22 x 16,0	272,30	65 x 18	164,00	M 52x3,00	2	49,0	140 x 33 x 32,0	1.151,95	90 x 36	453,25
M 27x1,50	2	25,50	90 x 22 x 16,0	262,92	65 x 18	164,70	M 52x5,00	3	47,0	180 x 65 x 32,0	1.170,45	90 x 36	354,48
M 27x2,00	2	25,00	90 x 22 x 16,0	292,08*	65 x 18	179,13*	M 56x4,00	2	52,0	180 x 47 x 32,0	1.284,50	105 x 36	
M 27x3,00	3	24,00	110 x 50 x 16,0	241,45*	65 x 25	144,22*	M 56x5,50	3	50,5	200 x 85 x 35,0	1.816,67	105 x 36	
M 28x1,00	2	27,00	90 x 22 x 16,0	459,59	65 x 18	212,00	M 60x5,50	3	54,5	200 x 85 x 35,0	1.887,89	105 x 36	
M 28x1,50	2	26,50	90 x 22 x 16,0	257,79	65 x 18	149,31	M 64x4,00	2	60,0	180 x 50 x 35,0	1.809,03	120 x 36	
M 28x2,00	2	26,00	90 x 22 x 16,0	308,43	65 x 18	209,93	M 64x6,00	3	58,0	220 x 90 x 39,0	2.233,84	120 x 36	
M 30x1,00	2	29,00	90 x 22 x 18,0	286,27	65 x 18	173,80	M 68x6,00	3	62,0	220 x 90 x 39,0	2.674,33	120 x 36	
M 30x1,50	2	28,50	90 x 22 x 18,0	274,73	65 x 18	164,69	M 72x6,00	3	66,0	235 x 90 x 39,0	2.897,34	120 x 36	
M 30x2,00	2	28,00	90 x 22 x 18,0	316,74	65 x 18	182,52	DIES WITH EXTERNAL Ø AVAILABLE IN INCHES						
M 30x3,00	2	27,00	125 x 56 x 18,0	309,64*	65 x 25	203,31*							
M 30x3,50	3	26,50	125 x 50 x 18,0	310,65*	65 x 25	144,59*							
M 32x1,00	2	31,00	90 x 22 x 18,0	377,52	65 x 18	224,48							
M 32x1,50	2	30,50	90 x 22 x 18,0	327,12	65 x 18	170,81							
M 32x2,00	2	30,00	90 x 22 x 18,0	468,23	65 x 18	208,05							
M 33x1,00	2	32,00	100 x 25 x 20,0	602,47	65 x 18	237,69	M 3x0,50		25,4 x 9,5	26,59	M 8x1,25	38,1 x 12,7	28,22
M 33x1,50	2	31,50	100 x 25 x 20,0	349,86	65 x 18	161,63	M 4x0,70		25,4 x 9,5	26,59	M 10x1,50	25,4 x 9,50	35,72
M 33x2,00	2	31,00	100 x 25 x 20,0	441,71	65 x 18	162,74	M 5x0,80		25,4 x 9,5	27,09	M 10x1,50	38,1 x 12,7	35,72
M 33x3,00	2	30,00	125 x 56 x 20,0	557,35*	65 x 25	251,14*	M 6x1,00		25,4 x 9,5	26,59	M 12x1,75	25,4 x 9,50	43,04
							M 8x1,25		25,4 x 9,5	28,22	M 12x1,75	38,1 x 12,7	43,04

* Check the price of left hand sets of taps and dies available in page 188.
* Extra-fee of 20% for adjustable die

HSS HAND TAPS AND DIES
UNC

Ref. M0

HSS

DIN
351TOL
2B

Ref. C5

HSS

DIN
223TOL
2a
UNF

Ref. M0

HSS

DIN
2181TOL
2B

Ref. C5

HSS

DIN
223TOL
2a

UNC	Pcs.	D1 mm	L1 mm	L2 x mm	M0		C5		UNC	Pcs.	D1 mm	L1 mm	L2 x mm	M0		C5	
					€	Ø x L3 mm	€	€						€	Ø x L3 mm	€	
UNC n°1-64h.	3	1,85	1,50	36x8x2,1	113,74	16x5			UNF n°2-64h.	2	2,18	1,85	36x8x2,1	72,83			
UNC n°2-56h.	3	2,18	1,80	36x9x2,1	80,38	16x5			UNF n°3-56h.	2	2,51	2,15	40x9x2,1	72,83			
UNC n°3-48h.	3	2,51	2,10	40x9x2,1	80,38	16x5			UNF n°4-48h.	2	2,84	2,35	40x9x2,7	45,38	20x5	46,94	
UNC n°4-40h.	3	2,84	2,25	40x11x2,7	60,87	20x5	45,17		UNF n°5-44h.	2	3,17	2,70	45x10x2,7	45,38	20x5	45,29	
UNC n°5-40h.	3	3,17	2,60	40x11x2,7	58,20	20x5	45,29		UNF n°6-40h.	2	3,50	2,95	45x16x3,0	43,37	20x5	45,29	
UNC n°6-32h.	3	3,50	2,75	45x13x3,0	58,20	20x7	45,29		UNF n°8-36h.	2	4,17	3,50	50x12x3,4	43,37	20x7	45,29	
UNC n°8-32h.	3	4,17	3,50	45x13x3,4	58,20	20x7	45,29		UNF n°10-32h.	2	4,83	4,10	50x12x4,9	43,37	20x7	45,29	
UNC n°10-24h.	3	4,83	3,90	50x16x4,9	58,20	20x7	45,29		UNF n°12-28h.	2	5,49	4,60	50x12x4,9	45,38	20x7	45,29	
UNC n°12-24h.	3	5,49	4,50	50x19x4,9	58,20	20x7	45,29		UNF 1/4-28h.	2	6,35	5,50	50x14x4,9	33,10*	25x9	39,98*	
UNC 1/4-20h.	3	6,35	5,10	50x19x4,9	49,87*	20x7	42,68*		UNF 5/16-24h.	2	7,94	6,90	56x22x4,9	35,44*	25x9	44,63*	
UNC 5/16-18h.	3	7,94	6,60	56x22x4,9	56,62*	25x9	43,80*		UNF 3/8-24h.	2	9,52	8,50	63x20x5,5	40,92*	38x10	60,89*	
UNC 3/8-16h.	3	9,52	8,00	70x24x5,5	64,42*	30x11	60,89*		UNF 7/16-20h.	2	11,11	9,90	63x20x6,2	54,30	38x10	59,74	
UNC 7/16-14h.	3	11,11	9,40	70x24x6,2	83,88	38x14	60,89		UNF 1/2-20h.	2	12,70	11,50	70x22x7,0	55,56*	38x10	65,09*	
UNC 1/2-13h.	3	12,70	10,75	75x29x7,0	96,51*	38x14	62,59*		UNF 9/16-18h.	2	14,29	12,90	70x22x9,0	72,40	38x10	68,13	
UNC 9/16-12h.	3	14,28	12,20	80x30x9,0	113,94	38x14	65,51		UNF 5/8-18h.	2	15,87	14,50	70x22x9,0	93,52*	45x14	88,80*	
UNC 5/8-11h.	3	15,87	13,50	80x32x9,0	157,14*	45x18	88,80*		UNF 3/4-16h.	2	19,05	17,50	80x22x11,0	125,62*	45x14	88,80*	
UNC 3/4-10h.	3	19,05	16,50	95x40x11,0	214,11*	45x18	88,80*		UNF 7/8-14h.	2	22,22	20,40	80x22x14,5	161,44*	55x16	119,19*	
UNC 7/8-9h.	3	22,22	19,50	100x40x14,5	263,57	55x22	123,97		UNF 1"-12h.	2	25,40	23,25	90x22x16,0	214,06	55x16	119,19	
UNC 1"-8h.	3	25,40	22,25	110x50x14,5	355,91*	55x22	119,19*		UNS 1"-14h.	2	25,40	23,60	90x22x14,5	237,14*	55x16	129,51*	
UNC 1.1/8-7h.	3	28,57	25,00	125x56x18,0	536,62	65x25	177,06		UNF 1.1/8-12h.	2	28,57	26,50	90x22x18,0	315,95	65x18	145,16	
UNC 1.1/4-7h.	3	31,75	28,00	125x56x18,0	675,44	65x25	177,06		UNF 1.1/4-12h.	2	31,75	29,50	90x22x20,0	385,87	65x18	184,14	
UNC 1.3/8-6h.	3	34,92	30,75	150x63x22,0	856,88	65x25	177,06		UNF 1.3/8-12h.	2	34,92	32,80	125x35x22,0	520,58	65x18	192,76	
UNC 1.1/2-6h.	3	38,10	34,00	150x63x24,0	1.052,07	75x30	276,06		UNF 1.1/2-12h.	2	38,10	36,00	125x40x22,0	657,67	75x20	276,06	
UNC 2"-4,5h.	3	50,80	45,00	180x75x32,0	1.430,05	90x36			UNF 2"-12h.	2	50,80	48,38	140x40x29,0	1.627,34	90x22		

* Check the price of left hand sets of taps and dies available in page 188.

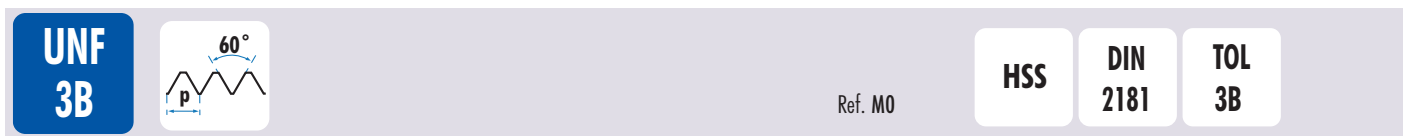
HSS HAND TAPS AND DIES

Threading tools

Green
Pink



Tap/Die	Pcs.	D1 mm	L1 x L2 x L3 mm	MO		C5		MOT		C5T		MOX		C5X	
				HSS	€	HSS	€	HSS	€	HSS	€	HSSCo	€	HSSCo	€
G 1/8-28h.	2	9,73	8,80	63 x 20 x 5,5	37,01*	38 x 10	54,45*	G 1/8-28 h.	2	80,55	101,51	92,55	69,02		
G 1/4-19h.	2	13,16	11,80	70 x 22 x 9,0	52,16*	38 x 10	54,16*	G 1/4-19 h.	2	146,54	105,05	166,30	71,19		
G 3/8-19h.	2	16,66	15,25	70 x 22 x 9,0	65,48*	45 x 14	71,73*	G 3/8-19 h.	2	178,79	118,17	206,59	84,69		
G 1/2-14h.	2	20,95	19,00	80 x 22 x 12,0	91,83*	45 x 14	71,73*	G 1/2-14 h.	2	251,98	133,77	278,74	93,71		
G 5/8-14h.	2	22,91	21,00	80 x 22 x 14,5	117,50*	55 x 16	99,51*								
G 3/4-14h.	2	26,44	24,50	90 x 22 x 16,0	143,35*	55 x 16	129,53*	G 3/4-14 h.	2	330,58	217,94	400,09	159,84		
G 7/8-14h.	2	30,20	28,25	90 x 22 x 18,0	192,98	65 x 18	154,20								
G 1"-11h.	2	33,25	30,75	100 x 25 x 20,0	227,25*	65 x 18	155,69*	G 1" -11 h.	2	576,15	291,11	658,06	190,95		
G 1.1/8-11h.	2	37,90	35,50	125 x 40 x 22,0	362,65	75 x 20	219,74								
G 1.1/4-11h.	2	41,91	39,50	125 x 40 x 24,0	395,20*	75 x 20	215,70*								
G 1.3/8-11h.	2	44,32	42,00	125 x 40 x 29,0	536,77	90 x 22	338,02								
G 1.1/2-11h.	2	47,80	45,25	140 x 40 x 29,0	597,26	90 x 22	325,60								
G 1.3/4-11h.	2	53,75	51,25	140 x 40 x 32,0	992,93	105 x 22	338,02								
G 2"-11h.	2	59,61	57,00	160 x 40 x 35,0	1.104,06	105 x 22	406,80								
G 2.1/4-11h.	2	65,71	63,00	160 x 40 x 39,0	1.823,79	105 x 22									
G 2.1/2-11h.	2	75,18	72,50	160 x 40 x 39,0	2.741,36	120 x 22									
G 2.3/4-11h.	2	81,53	79,00	160 x 40 x 39,0	3.324,15	120 x 22									
G 3"-11h.	2	87,88	85,50	160 x 40 x 39,0	3.459,76	150 x 25									
G 4"-11h.	2	113,03	110,50	180 x 45 x 44,0	5.247,27	180 x 25									



Tap/Die	Pcs.	D1 mm	L1 x L2 x L3 mm	MO-3B
UNF n°4-48-3B	2	2,84	40x9x2,7	57,80
UNF n°5-44-3B	2	3,17	45x10x2,7	57,80
UNF n°6-40-3B	2	3,50	45x16x3,0	54,53
UNF n°8-36-3B	2	4,17	50x12x3,4	54,53
UNF n°10-32-3B	2	4,83	50x12x4,9	54,53
UNF n°12-28-3B	2	5,49	50x12x4,9	57,80
UNF 1/4-28-3B	2	6,35	50x14x4,9	42,16
UNF 5/16-24-3B	2	7,94	56x22x4,9	45,13
UNF 3/8-24-3B	2	9,52	63x20x5,5	52,11
UNF 7/16-20-3B	2	11,11	63x20x6,2	69,17
UNF 1/2-20-3B	2	12,70	70x22x7,0	70,76

* Check the price of left hand sets of taps and dies available in page 188.

HSS HAND TAPS AND DIES

Threading tools

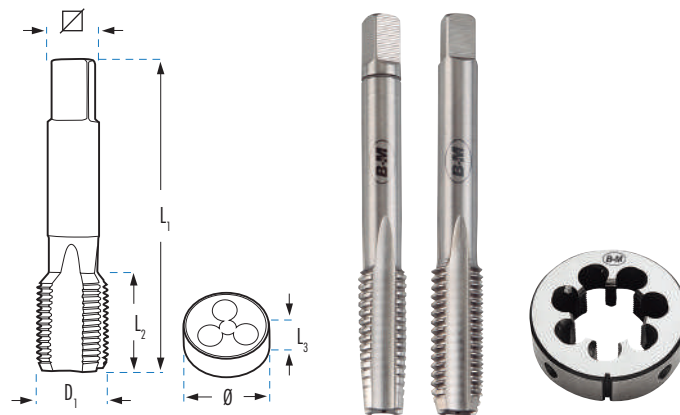
Pink
Green

BSW Ref. M0
DIN BS84 55°
Ref. C5

HSS **DIN 351** **TOL 2 Class**
HSS **DIN 223**

BSF Ref. M0
DIN BS84 55°
Ref. C5

HSS **DIN 5157** **TOL ISO 228**
HSS **DIN 223**



Icon	Pcs.	D1 mm	Ø	L1 x L2 x mm	M0		C5	
					€	Ø x L3 mm	€	
W 1/16-60h.	3	1,59	1,15	32x8x2,1	62,53	16x5	84,15	
W 3/32-48h.	3	2,38	1,80	40x9x2,1	45,72	20x5	43,42	
W 1/8-40h.	3	3,17	2,55	40x14x2,7	32,84*	25x9	34,27*	
W 5/32-32h.	3	3,97	3,10	45x17x3,4	33,18	25x9	34,96	
W 3/16-24h.	3	4,76	3,60	50x19x4,9	32,84	25x9	34,27	
W 7/32-24h.	3	5,55	4,40	50x19x4,9	54,01	25x9	44,76	
W 1/4-20h.	3	6,35	5,10	50x20x4,9	36,99*	25x9	34,96*	
W 5/16-18h.	3	7,94	6,50	56x20x4,9	45,18*	25x9	36,46*	
W 3/8-16h.	3	9,52	7,90	63x22x5,5	49,64*	38x10	52,77*	
W 7/16-14h.	3	11,11	9,25	70x22x6,2	66,63	38x10	52,84	
W 1/2-12h.	3	12,70	10,50	75x25x7,0	71,50	38x14	51,85	
W 9/16-12h.	3	14,29	12,00	80x26x9,0	97,27	38x14	63,32	
W 5/8-11h.	3	15,87	13,40	80x27x9,0	111,86*	45x18	75,30*	
W 11/16-11h.	3	17,46	15,25	95x32x11,0	263,61	45x18	124,04	
W 3/4-10h.	3	19,05	16,50	95x32x11,0	159,24*	45x18	75,42*	
W 7/8-9h.	3	22,22	19,25	100x32x14,5	217,47*	55x22	110,89*	
W 1"- 8h.	3	25,40	21,75	110x36x14,5	266,51*	55x22	111,90*	
W 1.1/8-7h.	3	28,57	24,75	125x40x18,0	395,03	65x25	176,20	
W 1.1/4-7h.	3	31,75	27,75	125x40x18,0	477,94	65x25	176,27	
W 1.3/8-6h.	3	34,92	30,50	150x50x22,0	594,34	65x25	179,53	
W 1.1/2-6h.	3	38,10	33,50	150x50x24,0	715,56	75x30	272,90	
W 1.5/8-5h.	3	41,27	46,50	150x56x24,0	996,00	75x30	339,81	
W 1.3/4-5h.	3	44,45	39,00	160x58x29,0	1.225,84	90x36	427,66	
W 1.7/8-4,5h.	3	47,62	42,00	180x65x29,0	1.583,24	90x36	467,95	
W 2"- 4,5h.	3	50,80	44,50	180x65x32,0	1.662,13	90x36	490,41	
W 2.1/4-4h.	3	57,15	50,00	200x85x35,0	2.754,08	105x36		
W 2.1/2-4h.	3	63,50	56,50	220x85x39,0	3.350,38	120x36		
W 2.3/4-3,5h.	3	69,85	62,00	250x90x44,0	4.783,95	120x36		
W 3"- 3,5h.	3	76,20	68,00	250x90x44,0	5.534,50	140x36		

Icon	Pcs.	D1 mm	Ø	L1 x L2 x mm	M0		C5	
					€	Ø x L3 mm	€	
BSF 3/16-32h.	2	4,76	4,0	50x19x4,9	89,99	20x7	45,09	
BSF 1/4-26h.	2	6,35	5,2	50x20x4,9	50,26	20x7	49,93	
BSF 5/16-22h.	2	7,94	6,6	56x20x4,9	58,61	25x9	50,50	
BSF 3/8-20h.	2	9,52	8,1	63x22x5,5	67,83	30x11	97,01	
BSF 7/16-18h.	2	11,11	9,5	70x22x6,2	81,39	30x11	96,11	
BSF 1/2-16h.	2	12,70	11,0	75x25x7,0	92,08	38x10	83,87	
BSF 9/16-16h.	2	14,29	12,5	80x26x9,0	110,37	38x10	88,51	
BSF 5/8-14h.	2	15,88	14,0	80x26x9,0	144,44	45x14	137,98	
BSF 3/4-12h.	2	19,05	16,5	95x33x11,0	220,77	45x14	139,26	
BSF 7/8-11h.	2	22,23	19,5	100x33x14,5	263,50	55x22	186,75	
BSF 1"-10h.	2	25,40	22,5	110x40x14,5	369,88	55x22	184,68	
BSF 1.1/8-9h.	2	28,57	25,5	110x40x16,0	834,60			
BSF 1.1/4-9h.	2	31,75	28,5	125x46x18,0	952,85			
BSF 1.1/2-8h.	2	38,10	34,5	150x55x22,0	1.452,21			

BSW **INOX** **TiN**

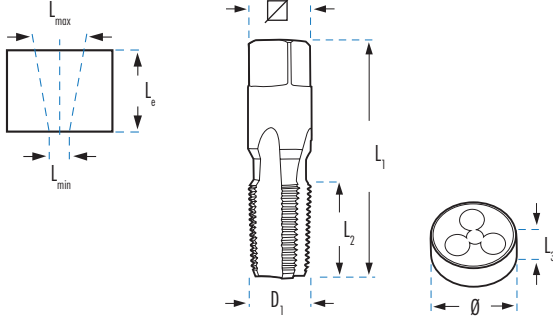
Icon	Pcs.	L1 x L2 x mm	M0T		C5T	
			€	Ø x L3 mm	€	
W 3/16-24 h.	3	50 x 19 x 4,90	62,70	25x9	62,67	
W 1/4-20 h.	3	50 x 20 x 4,90	70,18	25x9	63,82	
W 5/16-18 h	3	56 x 20 x 4,90	76,90	25x9	66,34	
W 3/8-16 h.	3	63 x 22 x 5,50	90,51	38x10	78,42	
W 1/2-12 h.	3	75 x 25 x 7,00	127,72	38x14	105,36	






* Check the price of left hand sets of taps and dies available in page 188.

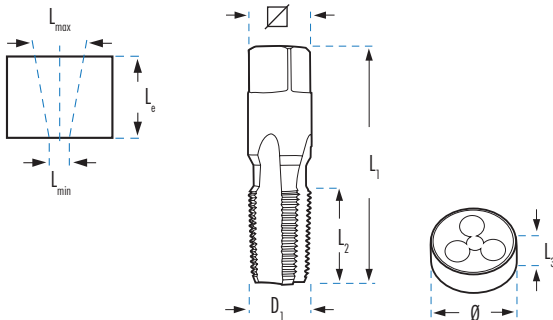
HSS HAND TAPS AND DIES





NPTF  AMERICAN dryseal taper pipe thread **HSS** Ref. M0 **HSS** Ref. C5 **DIN 223**



		Pcs.	D1 mm		L min x L max mm	L _e mm	L1 x L2 x ∇ mm	€	Ø x L3 mm	€
NPTF 1/8-27 h.		1	10,22	8,5	8,30 x 8,76	12,0	54 x 19 x 8,0	100,75	38 x 10	220,02
NPTF 1/4-18 h.		1	13,58	11,0	10,70 x 11,40	17,5	62 x 27 x 11,0	141,21	38 x 15	220,02
NPTF 3/8-18 h.		1	17,02	14,5	14,20 x 14,84	17,6	65 x 27 x 13,0	194,93	45 x 14	287,28
NPTF 1/2-14 h.		1	21,21	17,8	17,40 x 18,33	22,8	80 x 35 x 13,0	272,58	45 x 20	287,28
NPTF 3/4-14 h.		1	26,56	23,0	22,80 x 23,68	23,0	83 x 35 x 17,0	416,66	55 x 22	547,53
NPTF 1"-11,5 h.		1	33,19	29,0	28,60 x 29,72	27,4	110 x 38 x 20,0	554,99		

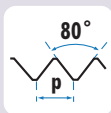
NPT  AMERICAN taper pipe thread (Briggs) **HSS** Ref. M0 **HSS** Ref. C5 **DIN 223**






		Pcs.	D1 mm			L min x L max mm	L _e mm	L1 x L2 x ∇ mm	€	Ø x L3 mm	€
NPT 1/16-27 h.		1	7,89	6,20	EMNPT1/16	6,00 x 6,38	12,0	54 x 18 x 6,0	38,25	25 x 9	126,47
NPT 1/8-27 h.		1	10,24	8,50	EMNPT1/8	8,30 x 8,73	12,0	65 x 19 x 5,5	38,25	30 x 11	93,51
NPT 1/4-18 h.		1	13,62	11,00	EMNPT1/4	10,70 x 11,35	17,5	62 x 27 x 11,0	53,67	38 x 14	93,51
NPT 3/8-18 h.		1	17,05	14,50	EMNPT3/8	14,20 x 14,80	17,6	65 x 27 x 13,0	74,07	45 x 18	122,08
NPT 1/2-14 h.		1	21,23	17,80	EMNPT1/2	17,40 x 18,32	22,8	80 x 35 x 13,0	103,57	45 x 18	122,08
NPT 3/4-14 h.		1	26,57	23,00	-	22,80 x 23,66	23,0	83 x 35 x 17,0	158,33	55 x 22	223,32
NPT 1"-11,5 h.		1	33,23	29,00	-	28,60 x 29,69	27,4	95 x 44 x 21,0	176,34	65 x 25	268,47
NPT 1.1/4-11,5 h.		1	41,98	37,50	-	37,40 x 38,45	28,1	125 x 33 x 24,0	289,12	75 x 26	333,62
NPT 1.1/2-11,5 h.		1	48,05	44,00	-	43,40 x 44,52	28,4	140 x 33 x 29,0	439,33	90 x 27	465,46
NPT 2"-11,5 h.		1	60,09	56,00	-	55,50 x 56,56	28,4	160 x 33 x 35,0	685,88	105 x 36	648,03
NPT 2.1/2"-8h.		1	73,03	67,00	-	68,68 x 69,08	28,9	200 x 45 x 39,0	838,07		
NPT 3"-8h.		1	88,90	82,00	-	84,45 x 84,86	30,5	220 x 48 x 39,0	1.178,01		

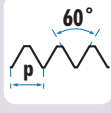
* Also available prior reamer on page 137

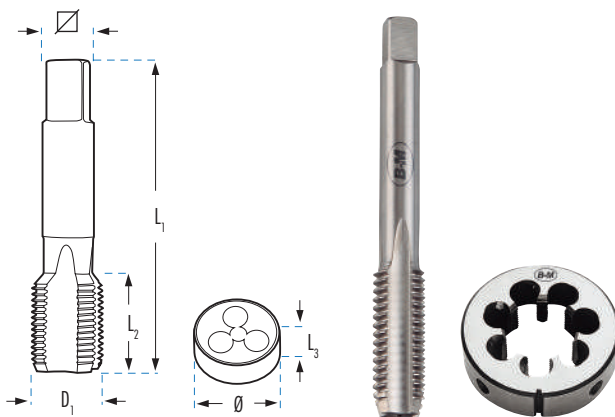
HSS HAND TAPS AND DIES




PG  Ref. MO **HSS** **DIN 40430** Ref. C5 **HSS** **DIN 223**

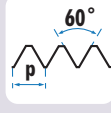


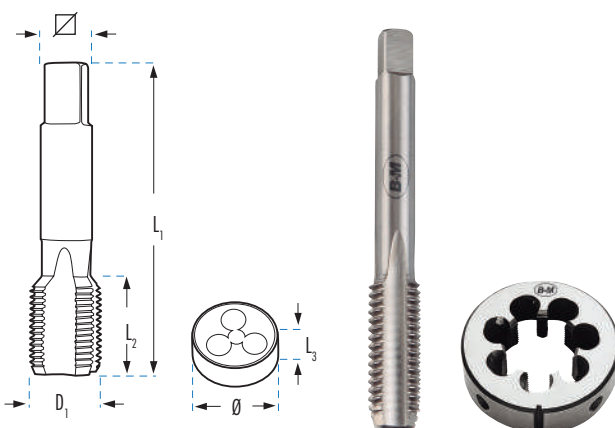
		Pcs.	D1 mm		L1 x L2 x mm	MO		C5	
						€	Ø x L3 mm	€	€
Pg 7	20h.	1	12,5	11,50	70x20x7,0	36,68	38x10	67,44	67,44
Pg 9	18h.	1	15,2	14,00	70x20x9,0	46,63	38x10	67,44	67,44
Pg 11	18h.	1	18,6	17,25	80x22x11,0	64,75	45x14	84,44	84,44
Pg 13,5	18h.	1	20,4	19,00	80x22x12,0	71,00	45x14	84,44	84,44
Pg 16	18h.	1	22,5	21,25	80x22x14,5	85,27	55x16	108,93	108,93
Pg 21	16h.	1	28,3	27,00	90x22x18,0	125,39	65x18	154,84	154,84
Pg 29	16h.	1	37,0	35,50	100x25x22,0	248,98	65x18	154,84	154,84
Pg 36	16h.	1	47,0	45,50	140x32x29,0	408,60	90x22	396,87	396,87
Pg 42	16h.	1	54,0	52,50	140x36x32,0	485,24	105x22	396,87	396,87
Pg 48	16h.	1	59,3	58,00	160x36x35,0	611,98	105x22	526,29	526,29




NPSF  AMERICAN dryseal straight pipe thread Ref. MO **HSS** Ref. C5 **HSS** **DIN 223**



		Pcs.	D1 mm		L1 x L2 x mm	MO		C5	
						€	Ø x L3 mm	€	€
NPSF 1/8-27 h.		1	10,05	8,75	63x18x5,5	151,72	38x10	264,30	264,30
NPSF 1/4-18 h.		1	13,35	11,30	70x20x9,0	219,24	38x10	264,30	264,30
NPSF 3/8-18 h.		1	16,78	14,70	70x20x9,0	303,25	45x14	336,22	336,22
NPSF 1/2-14 h.		1	20,87	18,20	80x22x12,0	396,43	45x14	336,22	336,22
NPSF 3/4-14 h.		1	26,23	23,50	90x22x16,0	603,18	55x16	726,76	726,76

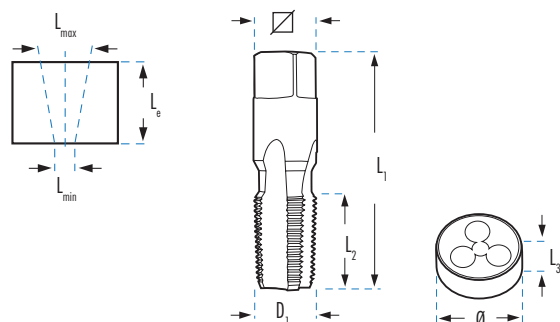
NPS (M)  AMERICAN straight pipe thread Ref. MO **HSS** Ref. C5 **HSS** **DIN 223**







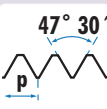
		Pcs.	D1 mm		L1 x L2 x mm	MO		C5	
						€	Ø x L3 mm	€	€
NPS 1/8-27 h.		1	10,20	8,9	63x18x5,5	125,71	38x10	220,19	220,19
NPS 1/4-18 h.		1	13,60	11,7	70x20x9,0	100,04	38x10	220,19	220,19
NPS 3/8-18 h.		1	17,00	15,0	70x20x9,0	138,37	45x14	280,17	280,17
NPS 1/2-14 h.		1	21,20	18,6	80x22x12,0	180,86	45x14	280,17	280,17
NPS 3/4-14 h.		1	26,55	24,0	90x22x16,0	262,64	55x16	555,02	555,02
NPS 1"-11,5 h.		1	33,20	30,0	100x25x20,0	367,24	65x18	559,34	559,34

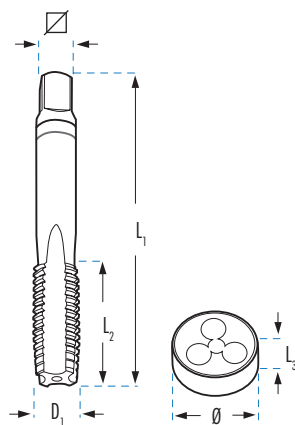
HSS HAND TAPS AND DIES





BSPT  Ref. MO **HSS** **DIN 5157** Ref. C5 **HSS** **DIN 223**

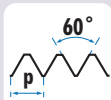


		Pcs.	D1 mm		L min x L max mm	L _e mm	L1 x L2 x  mm	MO	C5
								€	Ø x L3 mm
BSPT 1/8-28 h.		1	9,73	8,30	8,00 x 8,50	10,1	65 x 19 x 5,5	34,25	30 x 11 102,09
BSPT 1/4-19 h.		1	13,16	11,00	10,70 x 11,35	15,0	70 x 25 x 9,0	48,26	38 x 14 102,09
BSPT 3/8-19 h.		1	16,66	14,50	14,15 x 14,25	15,4	70 x 25 x 9,0	67,01	45 x 16 132,96
BSPT 1/2-14 h.		1	20,95	18,10	17,60 x 18,50	20,5	80 x 31 x 12,0	93,83	55 x 22 132,96
BSPT 5/8-14 h.		1	22,91	20,00	19,50 x 20,40	22,4	80 x 36 x 14,5	164,55	55 x 19 277,45
BSPT 3/4-14 h.		1	26,44	23,50	23,00 x 24,00	21,8	85 x 33 x 16,0	153,11	55 x 22 251,09
BSPT 7/8-14 h.		1	30,20	27,25	26,65 x 28,75	24,0	100 x 36 x 18,0	290,16	65 x 22 362,48
BSPT 1"-11 h.		1	33,25	29,60	29,00 x 30,20	26,0	110 x 38 x 20,0	242,48	65 x 25 289,96

BA  Ref. MO **HSS** **DIN 352** Ref. C5 **HSS** **DIN 223**



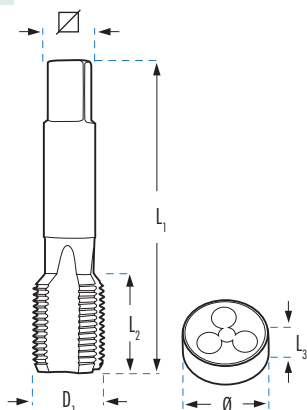
		Pcs.	D1 mm		L1 x L2 x  mm	MO	C5	
						€	Ø x L3 mm	€
BA-0		1,00	3	6,0	5,1	50 x 18 x 4,9	213,39	20 x 5 166,83
BA-1		0,90	3	5,3	4,5	50 x 18 x 4,9	213,39	20 x 5 166,83
BA-2		0,81	3	4,7	4,0	50 x 17 x 4,9	213,39	20 x 5 166,83
BA-3		0,73	3	4,1	3,4	45 x 14 x 3,4	229,31	20 x 5 166,83
BA-4		0,66	3	3,6	3,0	45 x 14 x 3,0	229,31	20 x 5 166,83
BA-5		0,59	3	3,2	2,6	45 x 14 x 3,0	273,99	20 x 5 166,83
BA-6		0,53	3	2,8	2,3	40 x 12 x 2,7	273,99	20 x 5 166,83
BA-7		0,48	3	2,5	2,0	40 x 10 x 2,1	301,23	20 x 5 166,83
BA-8		0,43	3	2,2	1,8	36 x 10 x 2,1	301,23	20 x 5 166,83

HSS HAND TAPS AND DIES
UNx8

 AMERICAN
 thread pitch

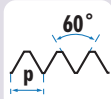
Ref. M0

HSS
**DIN
2181**
**TOL
2B**

Ref. C5

HSS
**DIN
223**
**TOL
2a**


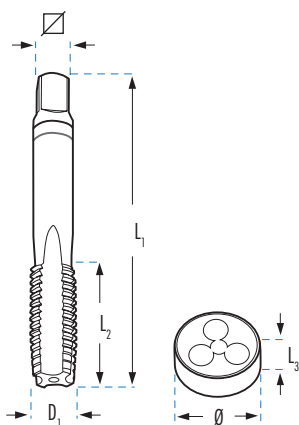
	Pcs.	D1 mm		L1 x L2 x mm	M0		C5	
					€	Ø x L3 mm	€	
UN 1"1/8-8h.	2	28,57	25,40	138x65x17,0	402,39	65x25	440,73	
UN 1"1/4-8h.	2	31,75	28,50	146x65x19,5	521,83	65x25	440,73	
UN 1"3/8-8h.	2	34,92	31,75	154x76x21,0	649,01	65x25	438,79	
UN 1"1/2-8h.	2	38,10	35,00	162x76x23,5	742,74	75x30	496,75	
UN 1"5/8-8h.	2	41,27	38,10	170x80x25,0	923,43	75x30	519,95	
UN 1"3/4-8h.	2	44,45	41,25	178x81x27,0	1.150,84	90x36	693,29	
UN 1"7/8-8h.	2	47,62	44,45	186x90x29,0	1.435,74	90x36	741,81	
UN 2"-8h.	2	50,80	47,63	194x90x31,5	1.364,97	90x36	751,06	
UN 2"1/4-8h.	2	57,15	54,00	208x90x36,0				
UN 2"1/2-8h.	2	63,50	60,35	220x100x36,0				
UN 2"3/4-8h.	2	69,85	66,70	234X104X39,0				
UN 3"-8h.	2	76,20	73,05	248x115x49,0				

UNEF

 AMERICAN
 extra fine thread

Ref. M0

HSS
**DIN
2181**
**TOL
2B**

Ref. C5

HSS
**DIN
223**
**TOL
2a**


	Pcs.	D1 mm		L1 x L2 x mm	M0		C5	
					€	Ø x L3 mm	€	
UNEF 1/4-32h.	2	6,35	5,55	65x28x4,9	108,15	20x7	109,81	
UNEF 5/16-32h.	2	7,94	7,15	70x30x6,0	120,83	25x9	109,81	
UNEF 3/8-32h.	2	9,52	8,70	75x33x7,0	138,28	30x11	170,51	
UNEF 7/16-28h.	2	11,11	10,20	81x38x6,0	176,02	30x11	170,51	
UNEF 1/2-28h.	2	12,70	11,80	86x44x7,0	198,89	38x10	170,51	
UNEF 9/16-24h.	2	14,29	13,20	92x44x8,0	162,59	38x10	170,51	
UNEF 5/8-24h.	2	15,87	14,80	93x47x9,0	167,47	45x14	273,30	
UNEF 3/4-20h.	2	19,05	17,80	108x52x11,0	184,31	45x14	273,30	
UNEF 7/8-20h.	2	22,22	20,95	120x58x13,0	279,71	55x16	325,10	
UNEF 1"-20h.	2	25,40	24,20	130x65x15,0	287,70	55x16	334,01	

HAND TAPS, SPECIAL APPLICATIONS

1100
N/mm²

Ref. MOMD

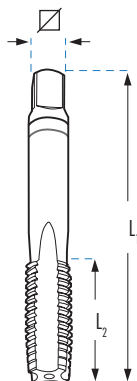
HSSCo
5%

DIN
352

OX



HARD MATERIALS (< 1100 N/mm²=40HRc)



				MOMD
	Pcs.		L ₁ x L ₂ x	€
M 3 x 0,50	3	2,50	40 x 11 x 2,7	39,47
M 4 x 0,70	3	3,30	45 x 13 x 3,4	39,47
M 5 x 0,80	3	4,20	50 x 17 x 4,9	40,75
M 6 x 1,00	3	5,00	50 x 19 x 4,9	41,95
M 8 x 1,25	3	6,80	56 x 20 x 4,9	47,70
M 10 x 1,50	3	8,50	70 x 22 x 5,5	61,22
M 12 x 1,75	3	10,20	75 x 24 x 7,0	87,66
M 14 x 2,00	3	12,00	80 x 26 x 9,0	103,76
M 16 x 2,00	3	14,00	80 x 27 x 9,0	137,87
M 18 x 2,50	3	15,50	95 x 30 x 11,0	212,04
M 20 x 2,50	3	17,50	95 x 32 x 12,0	235,41

1400
N/mm²

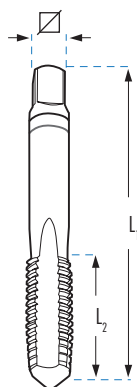
Ref. MOC

HSS
PM

TiAlSiN



VERY HARD MATERIALS (< 1400 N/mm²=44HRc)



				MOC
	Pcs.		L ₁ x L ₂ x	€
M 3 x 0,50	3	2,50	40 x 11 x 2,7	85,89
M 4 x 0,70	3	3,30	45 x 13 x 3,4	92,67
M 5 x 0,80	3	4,20	50 x 17 x 4,9	93,83
M 6 x 1,00	3	5,00	50 x 19 x 4,9	93,83
M 8 x 1,25	3	6,80	56 x 20 x 4,9	105,76
M 10 x 1,50	3	8,50	70 x 22 x 5,5	130,73
M 12 x 1,75	3	10,20	75 x 24 x 7,0	158,91
M 14 x 2,00	3	12,00	80 x 26 x 9,0	190,66
M 16 x 2,00	3	14,00	80 x 27 x 9,0	233,64
M 18 x 2,50	3	15,50	95 x 30 x 11,0	323,93
M 20 x 2,50	3	17,50	95 x 32 x 12,0	356,52

Al

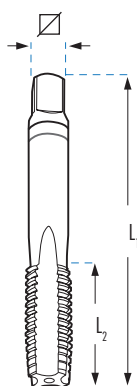
Ref. MOAL

HSS

BRIGHT



SPECIAL FOR ALUMINIUM



				MOAL
	Pcs.		L ₁ x L ₂ x	€
M 3 x 0,50	3	2,50	40 x 11 x 2,7	30,74
M 4 x 0,70	3	3,30	45 x 13 x 3,4	29,84
M 5 x 0,80	3	4,20	50 x 17 x 4,9	31,62
M 6 x 1,00	3	5,00	50 x 19 x 4,9	31,62
M 8 x 1,25	3	6,80	56 x 20 x 4,9	38,81
M 10 x 1,50	3	8,50	70 x 22 x 5,5	47,39
M 12 x 1,75	3	10,20	75 x 24 x 7,0	66,72
M 14 x 2,00	3	12,00	80 x 26 x 9,0	76,67
M 16 x 2,00	3	14,00	80 x 27 x 9,0	108,83
M 18 x 2,50	3	15,50	95 x 30 x 11,0	144,24
M 20 x 2,50	3	17,50	95 x 32 x 12,0	162,61

HAND TAPS AND DIES FOR STAINLESS STEEL

M

INOX

Ref. MOT

Ref. MOX

DIN
352TOL
6H

TiN



Ref. CST

Ref. CSX

DIN
223TOL
6g

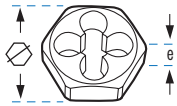
OX



		Pcs.	L ₁ x L ₂ x ∇ mm	MOT	CST	MOX	CSX	Ø x L3 mm
				HSS	HSS	HSSCo	HSSCo	
				TiN	TiN	OX	OX	
				€	€	€	€	
M 3 x 0,50		3	40 x 11 x 2,70	44,01	64,71	40,59	35,15	20 x 5
M 4 x 0,70		3	45 x 13 x 3,40	46,24	64,71	40,59	35,15	20 x 5
M 5 x 0,80		3	50 x 16 x 4,90	49,06	64,71	42,26	36,85	20 x 7
M 6 x 1,00		3	50 x 19 x 4,90	49,06	64,71	42,13	37,37	20 x 7
M 8 x 1,00		2	50 x 19 x 4,90	43,13				
M 8 x 1,25		3	56 x 22 x 4,90	56,58	66,34	49,03	40,53	25 x 9
M 10 x 1,00		2	63 x 18 x 5,50	49,76				
M 10 x 1,50		3	70 x 24 x 5,50	75,35	87,10	63,08	51,43	30 x 11
M 12 x 1,50		2	70 x 20 x 7,00	63,36				
M 12 x 1,75		3	75 x 29 x 7,00	87,43	96,57	90,33	54,33	38 x 14
M 14 x 1,50		2	70 x 20 x 9,00	76,08				
M 14 x 2,00		3	80 x 30 x 9,00	105,73	96,57	100,03	54,33	38 x 14
M 16 x 2,00		3	80 x 32 x 9,00	132,78	119,01	137,09	72,94	45 x 18
M 18 x 2,50		3	95 x 40 x 11,00	164,59		187,23		
M 20 x 2,50		3	95 x 40 x 12,00	170,68		207,82		
M 22 x 2,50		3	100 x 40 x 14,50	215,91				
M 24 x 3,00		3	110 x 50 x 14,50	260,17				

M

HSS HEXAGONAL DIES



M HSS DIN 382

		C5HM	
			€
M 3 x 0,35	18 x 5	41,87	
M 3 x 0,50	19 x 5	41,87	
M 3,5 x 0,60	18 x 5	41,87	
M 4 x 0,50	18 x 5	41,87	
M 4 x 0,70	19 x 5	41,87	
M 5 x 0,50	18 x 5	41,87	
M 5 x 0,75	18 x 5	41,87	
M 5 x 0,80	19 x 7	41,87	
M 6 x 0,75	18 x 7	41,87	
M 6 x 1,00	19 x 7	41,87	
M 7 x 0,75	21 x 9	44,51	
M 7 x 1,00	21 x 9	44,51	
M 8 x 0,75	21 x 9	44,51	
M 8 x 1,00	21 x 9	44,51	
M 8 x 1,25	22 x 9	44,51	
M 9 x 0,75	21 x 9	52,39	
M 9 x 1,00	21 x 9	52,39	
M 9 x 1,25	22 x 9	52,39	
M 10 x 1,00	27 x 11	52,39	
M 10 x 1,25	27 x 11	52,39	
M 10 x 1,50	27 x 11	52,39	
M 11 x 1,00	27 x 11	87,29	
M 11 x 1,50	27 x 11	87,29	
M 12 x 1,25	36 x 10	87,29	
M 12 x 1,50	36 x 10	87,29	
M 12 x 1,75	36 x 10	73,34	
M 14 x 1,25	36 x 14	99,19	
M 14 x 1,50	36 x 10	99,19	
M 14 x 2,00	36 x 10	73,34	
M 15 x 1,00	36 x 14	115,05	
M 15 x 1,50	41 x 14	115,05	
M 16 x 1,00	41 x 14	115,05	
M 16 x 1,50	41 x 14	115,05	

		C5HM	
			€
M 16 x 2,00	41 x 18	115,05	
M 18 x 1,00	41 x 14	115,05	
M 18 x 1,50	41 x 14	115,05	
M 18 x 2,50	41 x 18	115,05	
M 20 x 1,00	41 x 14	115,05	
M 20 x 1,50	41 x 14	115,05	
M 20 x 2,00	41 x 18	115,05	
M 20 x 2,50	41 x 18	115,05	
M 22 x 1,00	50 x 16	145,47	
M 22 x 1,50	50 x 16	145,47	
M 22 x 2,00	50 x 16	145,47	
M 22 x 2,50	50 x 16	145,47	
M 24 x 1,00	50 x 16	177,17	
M 24 x 1,50	50 x 16	177,17	
M 24 x 2,00	50 x 16	177,17	
M 24 x 3,00	50 x 22	145,47	
M 27 x 1,50	60 x 18	196,69	
M 27 x 2,00	60 x 18	196,69	
M 27 x 3,00	60 x 25	163,90	
M 30 x 1,00	60 x 18	196,69	
M 30 x 1,50	60 x 18	196,69	
M 30 x 2,00	60 x 18	196,69	
M 30 x 3,00	60 x 18	196,69	
M 30 x 3,50	60 x 25	163,90	
M 33 x 1,50	60 x 18	220,23	
M 33 x 2,00	60 x 18	220,23	
M 33 x 3,50	60 x 25	183,54	
M 35 x 1,50	60 x 18	227,04	
M 36 x 1,50	60 x 18	227,04	
M 36 x 2,00	60 x 18	227,04	
M 36 x 3,00	60 x 18	227,04	
M 36 x 4,00	60 x 25	189,20	

BSP (GAS) HSS DIN 382

		C5HG	
			€
G 1/8 x 28h.	27 x 11	92,20	
G 1/4 x 19h.	36 x 10	92,20	
G 3/8 x 19h.	41 x 14	115,30	
G 1/2 x 14h.	41 x 14	115,30	
G 5/8 x 14h.	50 x 16	271,47	
G 3/4 x 14h.	50 x 16	271,47	
G 7/8 x 14h.	60 x 18	273,88	
G 1" x 11h.	60 x 18	273,88	
G1.1/4 x 11h.	70 x 20	365,18	
G1.1/2 x 11h.	85 x 22	616,07	
G 2" x 11h.	100 x 22	927,05	

UNC HSS DIN 382

		C5HNC	
			€
UNC 1/4-20h	18 x 7	38,18	
UNC 5/16-18h	21 x 9	47,51	
UNC 3/8-16h	27 x 11	57,35	
UNC 7/16-14h	27 x 11	84,64	
UNC 1/2-13h	36 x 14	84,95	
UNC 9/16-12h	36 x 14	101,52	
UNC 5/8-11h	41 x 18	78,65	
UNC 3/4-10h	41 x 18	125,11	
UNC 7/8-9h	50 x 22	177,55	
UNC 1"-8h	50 x 22	177,55	
UNC 1.1/8-7h	60 x 25	234,75	
UNC 1.1/4-7h	60 x 25	234,75	

UNF HSS DIN 382

		C5HNF	
			€
UNF 1/4-28h.	18 x 7	40,47	
UNF 5/16-24h.	21 x 9	50,60	
UNF 3/8-24h.	27 x 11	60,88	
UNF 7/16-20h.	27 x 11	89,70	
UNF 1/2-20h.	36 x 10	91,08	
UNF 9/16-18h.	36 x 10	101,52	
UNF 5/8-18h.	41 x 14	126,65	
UNF 3/4-16h.	41 x 14	132,63	
UNF 7/8-14h.	50 x 16	167,75	
UNF 1"-12h.	50 x 16	175,84	
UNS 1"-14h.	50 x 16	175,84	
UNF 1.1/8-12h.	60 x 18	234,75	
UNF 1.1/4-12h.	60 x 18	234,75	

BSW HSS DIN 382

		C5HW	
			€
BSW 1/8 x 40h.	19 x 5	52,39	
BSW 3/16 x 24h.	19 x 7	52,39	
BSW 1/4 x 20h.	19 x 7	52,39	
BSW 5/16 x 18h.	22 x 9	54,99	
BSW 3/8 x 16h.	27 x 11	65,47	
BSW 7/16 x 14h.	27 x 11	65,47	
BSW 1/2 x 12h.	36 x 14	78,59	

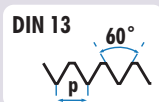
		C5HW	
			€
BSW 9/16 x 12h.	36 x 14	78,59	
BSW 5/8 x 11h.	41 x 18	116,13	
BSW 3/4 x 10h.	41 x 18	116,13	
BSW 7/8 x 9h.	50 x 22	170,21	
BSW 1" x 8h.	50 x 22	170,21	
BSW 1.1/8 x 7h.	60 x 25	293,37	

Threading tools
Pink

SET OF LEFT TURNING HAND TAPS AND DIES

Threading tools

Green



Ref. MOI

HSS

DIN 352

DIN 2181

TOL 6H

Ref. CSI

HSS

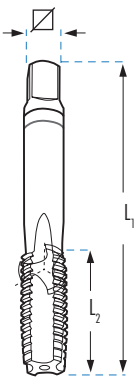
DIN 223

TOL 6g

For hard materials up to 38 HRC



LEFT



UNC

Pcs.	D1 mm	Ø	L1 x L2 x mm	MOI		CSI	
				€	Ø x L3 mm	€	
3	6,35	5,10	50x19x4,9	99,75	20x7	85,37	
3	7,94	6,60	56x22x4,9	113,24	25x9	87,59	
3	9,52	8,00	70x24x5,5	128,83	30x11	121,79	
3	12,70	10,75	75x29x7,0	193,02	38x14	125,19	
3	15,87	13,50	80x32x9,0	314,27	45x18	177,59	
3	19,05	16,50	95x40x11,0	428,21	45x18	177,59	
3	25,40	22,25	110x50x14,5	711,81	55x22	238,38	

UNF

Pcs.	D1 mm	Ø	L1 x L2 x mm	MOI		CSI	
				€	Ø x L3 mm	€	
2	6,35	5,50	50x14x4,9	66,21	25x9	79,97	
2	7,94	6,90	56x22x4,9	70,88	25x9	89,26	
2	9,52	8,50	63x20x5,5	81,84	38x10	121,79	
2	12,70	11,50	70x22x7,0	111,12	38x10	130,17	
2	15,87	14,50	70x22x9,0	187,05	45x14	177,59	
2	19,05	17,50	80x22x11,0	251,24	45x14	177,59	
2	25,40	23,60	90x22x14,5	474,27	55x16	259,02	

BSP (GAS)

Pcs.	D1 mm	Ø	L1 x L2 x mm	MOI		CSI	
				€	Ø x L3 mm	€	
2	9,73	8,80	63 x 20 x 5,5	74,02	38x10	108,89	
2	13,16	11,80	70 x 22 x 9,0	104,32	38x10	108,31	
2	16,66	15,25	70 x 22 x 9,0	130,95	45x14	143,46	
2	20,95	19,00	80 x 22 x 12,0	183,67	45x14	143,46	
2	22,91	21,00	80 x 22 x 14,5	235,00	55x16	199,02	
2	26,44	24,50	90 x 22 x 16,0	286,69	55x16	259,07	
2	33,25	30,75	100 x 25 x 20,0	454,50	65x18	311,39	
2	41,91	39,50	125 x 40 x 24,0	790,40	75x20	431,41	

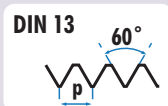
BSW

Pcs.	D1 mm	Ø	L1 x L2 x mm	MOI		CSI	
				€	Ø x L3 mm	€	
3	3,17	2,55	40x14x2,7	65,67	25x9	68,54	
3	6,35	5,10	50x20x4,9	73,97	25x9	69,92	
3	7,94	6,50	56x20x4,9	90,35	25x9	72,92	
3	9,52	7,90	63x22x5,5	99,27	38x10	105,53	
3	15,87	13,40	80x27x9,0	223,72	45x18	150,61	
3	19,05	16,50	95x32x11,0	318,48	45x18	150,83	
3	22,22	19,25	100x32x14,5	434,95	55x22	221,78	
3	25,40	21,75	110x36x14,5	533,03	55x22	223,80	

Pcs.	D1 mm	Ø	L1 x L2 x mm	MOI		CSI	
				€	Ø x L3 mm	€	
3	1,60	36x9,0x2,1	81,02	16x5	68,21		
3	2,50	40x11,0x2,7	45,48	25x9	62,03		
3	3,30	45x13,0x3,4	45,44	25x9	62,35		
3	4,20	50x16,0x4,9	48,57	25x9	61,99		
3	5,00	50x19x4,9	48,57	25x9	62,03		
3	6,00	50x19x4,9	59,18	25x9	65,12		
2	7,00	56x18x4,9	54,59	25x9	71,97		
3	6,80	56x22x4,9	59,12	25x9	65,81		
3	7,80	63x22x5,5	96,86	25x9	76,50		
3	8,50	70x24x5,5	72,90	38x10	88,10		
2	10,50	70x20x7,0	88,07	38x10	110,42		
3	10,20	75x29x7,0	102,57	38x14	95,72		
2	12,80	70x20x9,0	126,20	38x10	143,22		
3	12,00	80x30x9,0	113,46	38x14	94,77		
2	14,50	70x20x9,0	122,12	45x14	137,15		
3	14,00	80x32x9,0	162,35	45x18	128,50		
2	16,00	80x22x11,0	256,80	45x14	185,60		
3	15,50	95x40x11,0	214,26	45x18	128,56		
2	18,00	80x22x12,0	272,00	45x14	184,63		
3	17,50	95x40x12,0	240,36	45x18	126,55		
2	20,00	80x22x14,5	353,48	55x16	237,89		
3	19,50	100x40x14,5	320,17	55x22	190,16		
2	22,00	90x22x14,5	421,50	55x16	242,40		
3	21,00	110x50x14,5	381,88	55x22	190,16		
2	25,00	90x22x16,0	584,15	65x18	358,26		
3	24,00	110x50x16,0	482,91	65x25	288,44		
2	27,00	125x56x18,0	619,28	65x25	406,62		
3	26,50	125x50x18,0	621,30	65x25	289,17		
2	31,00	100x25x20,0	883,41	65x18	502,28		
3	29,50	125x50x20,0	780,16	65x25	294,71		
2	33,00	125x33x22,0	1.426,26	65x25	346,56		
3	32,00	150x53x22,0	1.004,41	65x25	300,47		
2	36,00	125x33x24,0	1.233,12	75x30	542,91		
3	35,00	150x53x24,0	1.123,87	75x30	457,02		

Other dimensions are available on request

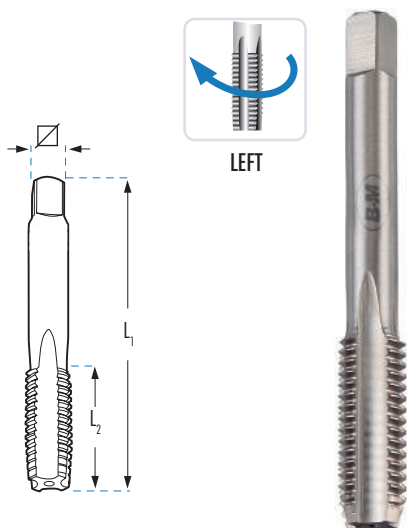
METRIC THREAD LEFT AND RIGHT TURNING TAP NUMBER 3



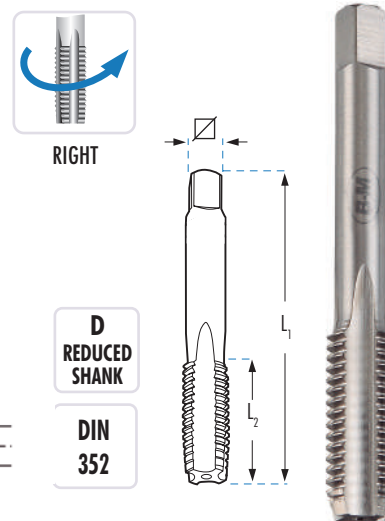
HSS

DIN 352

TOL 6H

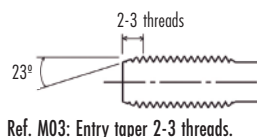


LEFT



RIGHT

D
REDUCED SHANK
DIN 352



			L1 x L2 x D2 x	M031
		\emptyset	mm	€
M 3x0,50	2,50	D	40 x 11 x 3,50 x 2,70	15,16
M 4x0,70	3,30	D	45 x 13 x 4,50 x 3,40	15,15
M 5x0,80	4,20	D	50 x 16 x 6,00 x 4,90	16,19
M 6x1,00	5,00	D	50 x 19 x 6,00 x 4,90	16,19
M 7x1,00	6,00	D	50 x 19 x 6,00 x 4,90	19,73
M 8x1,25	6,75	D	56 x 22 x 6,00 x 4,90	19,71
M 10x1,50	8,50	D	70 x 24 x 7,00 x 5,50	24,30
M 12x1,75	10,20	D	75 x 29 x 9,00 x 7,00	34,19
M 14x2,00	12,00	D	80 x 30 x 11,00 x 9,00	37,82
M 16x2,00	14,00	D	80 x 32 x 12,00 x 9,00	54,12
M 18x2,50	15,50	D	95 x 40 x 14,00 x 11,00	71,42
M 20x2,50	17,50	D	95 x 40 x 16,00 x 12,00	80,12

Other dimensions are available on request

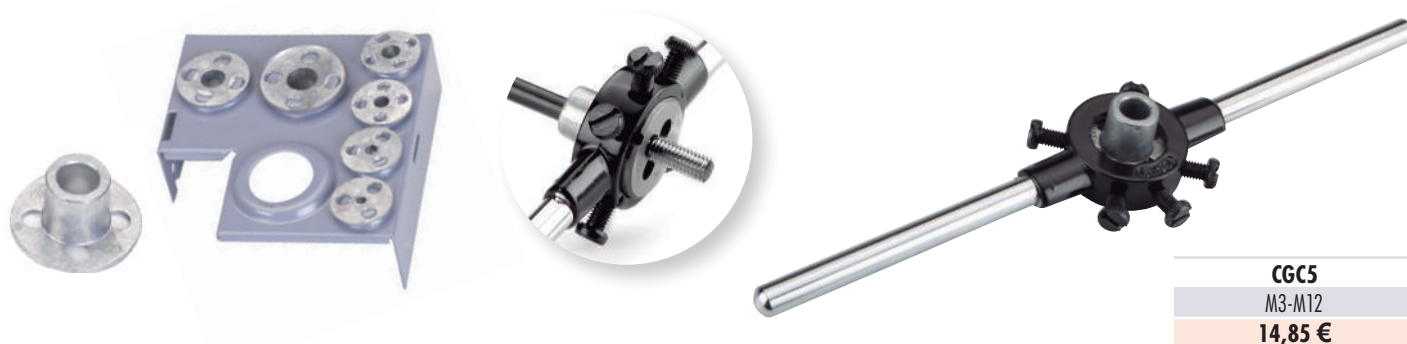
			L1 x L2 x D2 x	M03
		\emptyset	mm	€
M 3x0,50	2,50	D	40 x 11 x 3,50 x 2,70	7,58
M 4x0,70	3,30	D	45 x 13 x 4,50 x 3,40	7,57
M 5x0,80	4,20	D	50 x 16 x 6,00 x 4,90	8,10
M 6x1,00	5,00	D	50 x 19 x 6,00 x 4,90	8,10
M 7x1,00	6,00	D	50 x 19 x 6,00 x 4,90	9,86
M 8x1,00	7,00	D	56 x 18 x 6,00 x 4,90	13,65
M 8x1,25	6,75	D	56 x 22 x 6,00 x 4,90	9,85
M 9x1,25	7,75	D	63 x 18 x 7,00 x 5,50	16,14
M 10x1,00	9,00	D	63 x 18 x 7,00 x 5,50	14,62
M 10x1,25	8,80	D	70 x 24 x 7,00 x 5,50	14,82
M 10x1,50	8,50	D	70 x 24 x 7,00 x 5,50	12,15
M 12x1,00	11,00	D	70 x 20 x 9,00 x 7,00	25,91
M 12x1,25	10,75	D	70 x 20 x 9,00 x 7,00	25,84
M 12x1,50	10,50	D	70 x 20 x 9,00 x 7,00	22,02
M 12x1,75	10,20	D	75 x 29 x 9,00 x 7,00	17,09
M 14x1,00	13,00	D	70 x 20 x 11,00 x 9,00	40,39
M 14x1,25	12,80	D	70 x 20 x 11,00 x 9,00	31,55
M 14x1,50	12,50	D	70 x 20 x 11,00 x 9,00	24,53
M 14x2,00	12,00	D	80 x 30 x 11,00 x 9,00	18,91
M 16x1,00	15,00	D	70 x 20 x 12,00 x 9,00	53,58
M 16x1,25	14,75	D	70 x 20 x 12,00 x 9,00	56,40
M 16x1,50	14,50	D	70 x 20 x 12,00 x 9,00	30,53
M 16x2,00	14,00	D	80 x 32 x 12,00 x 9,00	27,06
M 18x1,50	16,50	D	80 x 22 x 14,00 x 11,00	40,22
M 18x2,50	15,50	D	95 x 40 x 14,00 x 11,00	35,71
M 20x1,50	18,50	D	80 x 22 x 16,00 x 12,00	50,37
M 20x2,50	17,50	D	95 x 40 x 16,00 x 12,00	40,06
M 22x2,50	19,50	D	100 x 40 x 18,00 x 14,50	53,36
M 24x3,00	21,00	D	110 x 50 x 18,00 x 14,50	63,65
M 27x3,00	24,00	D	110 x 50 x 20,00 x 16,00	80,48
M 30x3,50	26,50	D	125 x 50 x 22,00 x 18,00	103,55

THREAD PITCH GAUGES



	THREAD TYPE	THREAD RANGE		GAM	
		Metric	Empire	€	
		GAM	Metric	0,25 - 2,5	
GAMW	Metric / Empire	0,25 - 6,0	62h - 4h		22,23

SET OF GUIDES FOR DIES M3-M12

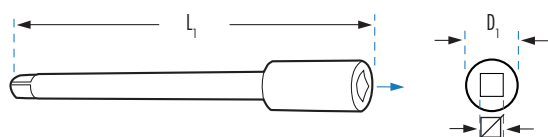


CGC5
M3-M12
14,85 €

TAP EXTENSION

DIN
377

DIN 10



Same square dimensions in both male and female areas.

	∅ x L1 mm	D1 mm	AL €
AL21	2,1 x 60	6,0	8,89
AL24	2,4 x 70	6,0	8,89
AL27	2,7 x 80	7,0	8,89
AL30	3,0 x 90	7,0	8,89
AL34	3,4 x 95	8,0	9,64
AL38	3,8 x 95	9,0	10,06
AL43	4,3 x 105	10,0	11,21
AL49	4,9 x 110	11,0	11,22
AL55	5,5 x 115	12,0	11,29
AL62	6,2 x 120	14,0	13,75
AL70	7,0 x 125	15,0	14,33
AL80	8,0 x 125	17,0	17,89
AL90	9,0 x 135	19,0	18,38

	∅ x L1 mm	D1 mm	AL €
AL100	10,0 x 140	21,0	25,39
AL110	11,0 x 150	23,0	25,74
AL120	12,0 x 160	25,0	27,72
AL130	13,0 x 165	27,0	43,36
AL145	14,5 x 175	29,0	43,97
AL160	16,0 x 185	30,0	46,53
AL180	18,0 x 195	33,0	53,01
AL200	20,0 x 220	36,0	70,71
AL220	22,0 x 220	40,0	103,34
AL240	24,0 x 235	42,0	158,27
AL260	26,0 x 245	45,0	167,12
AL290	29,0 x 260	55,0	192,82
AL320	32,0 x 280	55,0	237,36

Maximum
Performance
150 kg/mm²

DROP FORGED TAP HOLDERS

Ref. GAPRO

- Drop Forged Steel body.
- Tensile Strength up to 150 Kg/mm².
- Maximum performance and lifetime.

- Accurate and tight tap holding.
- Adjusted and reinforced thread provides robust tool.
- Anti slip handle for a smooth grip.



GAPRO

NORM Nº	Nº 0	Nº 1	Nº 1.1/2	Nº 2	Nº 3	Nº 4	Nº 5
	M1-M8 2,00-5,00	M1-M10 2,00-6,30	M1-M12 2,50-7,00	M1-M12 2,50-8,00	M5-M20 4,00-13,00	M5-M27 4,00-16,00	M9-M32 5,50-20,00
€	22,05	23,30	24,76	31,29	44,28	70,80	149,85

Ref. GA

- Zinc Alloy Body.
- High performance and lifetime.
- Accurate and precise grip.



GA

NORM Nº	Nº 0	Nº 1	Nº 1.1/2	Nº 2	Nº 3	Nº 4	Nº 5	Nº 7	Nº 8
	M1-M8 1,50-5,00	M1-M10 2,00-7,00	M1-M12 2,00-8,00	M4-M12 2,50-10,00	M5-M20 3,50-14,00	M9-M27 4,00-15,00	M13-M32 5,50-19,00	M22-M52 14,00-34,00	M33-M64 16,00-40,00
€	18,53	19,59	20,81	26,29	37,20	59,50	125,93	248,77	406,43

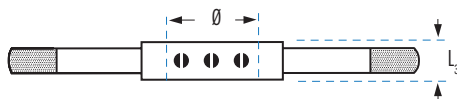
DIE HOLDERS WITH 5 AND 3 SCREWS

Ref. VA

**DIN
225**



IMPORTANT: When placing an order, please use the thicknesses mentioned below



Ø x L3 mm	16x5	20x5	20x7	25x9	30x11	38x10	38x14	45x14	45x18	55x16	55x22	65x18	VA 65x25
€	10,29	11,39	11,39	13,00	15,75	20,59	20,56	25,28	25,46	32,67	34,22	46,81	46,81
Ø x L3 mm	75x20	75x30	90x22	90x36	105x22	105x36	120x22	120x36	130x25	130x36			
€	106,31	111,28	134,66	145,08	200,35	200,35	521,07	521,07	541,71	541,71			

Ref. VA

INCHES



Ø mm	20,60	25,40	38,10	50,80	63,50	76,20	VA 88,90
Inches	13/16"	1"	1.1/2"	2"	2.1/2"	3"	3.1/2"
€	13,54	16,06	24,04	35,65	56,26	104,04	131,79

NOTE: Die holders with imperial exterior Ø are now obsolete

"T" TAP WRENCHES WITH RATCHET

Ref. TC

TYPE
T


SHORT SERIES



	CAPACITY mm min.-max.	For tap shanks		L1 mm	WEIGHT g	QUALITY	TC
		DIN	ISO				€
TC3B	2,6 - 5,5	M3 - 8	M3 - 6	85	180	1 st Quality	30,26
TC4B	4,6 - 8,0	M5 - 12	M6 - 12	110	300	1 st Quality	40,89
TC1B	2,6 - 5,5	M3 - 8	M3 - 6	85	180	2 nd Quality	22,92
TC2B	4,6 - 8,0	M5 - 12	M6 - 12	110	300	2 nd Quality	30,74

Ref. TL

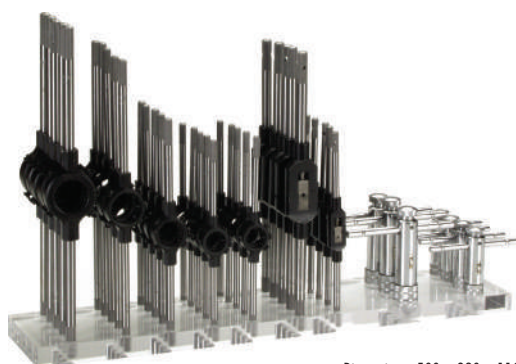
TYPE
T

LONG SERIES



	CAPACITY mm min.-max.	For tap shanks		L1 mm	WEIGHT g	QUALITY	TL
		DIN	ISO				€
TL3	2,6 - 5,5	M3 - 8	M3 - 6	250	250	1 st Quality	46,03
TL4	4,6 - 8,0	M5 - 12	M6 - 12	300	440	1 st Quality	54,80
TL1	2,6 - 5,5	M3 - 10	M3 - 6	250	250	2 nd Quality	36,35
TL2	4,6 - 8,0	M5 - 12	M6 - 12	300	440	2 nd Quality	43,31

METHACRYLATE DISPLAYS



Dimensions: 500 x 320 x 110 mm

				GV-01
				€
GV-01	N° 1 1/2 5	N° 2 5	20 x 5 20 x 7 25 x 9 5 5 5 30 x 11 38 x 14 5 5	TC1 TC2 4 4 797,07

HAND TAPS AND DIES IN METAL CASE

**M3
M12**

HSS



Ref. D624

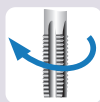
CONTENT

					No. Items	1st Quality €	* 2nd Quality €
D624	M3 - M4 - M5 - M6 - M8 - M10 - M12	Nº 1.1/2	25 x 9	-	30	258,27	234,29

HSS DIES IN METAL CASE

**M3
M12**

HSS



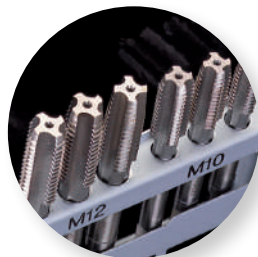
Ref. D671

CONTENT

					No. Items	1st Quality €	* 2nd Quality €
D671	M3 - M4 - M5 - M6 - M8 - M10 - M12	20 x 5 30 x 11	20 x 7 38 x 14	25 x 9	12	254,76	215,79
D671 (Left hand)	M3 - M4 - M5 - M6 - M8 - M10 - M12	20 x 5 30 x 11	20 x 7 38 x 14	25 x 9	12	458,57	388,41

* 2nd Quality: Die holder and tap holder in ZAMAK

HSS AND HSSCo HAND TAPS AND DIES IN METAL CASES
**M3
M12**

HSS
**HSSCo
5%**


Ref. D621



Ref. D655

CONTENT

							No. Items	1st Quality €	**2nd Quality €
D621	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14		TC1	43	517,87	379,58
D652	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14		-	42	501,29	360,46
D662	M3-M4-M5-M6-M7 M8-M9-M10-M11-M12	-	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14		TC1	48	771,48	678,57
D651	M3 - M4 - M5 - M6 M8 - M10 - M12	-	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14		-	35	395,65	363,99
D655* (HSSCo)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14		TC1	43	826,14	726,70
D6211 (Left hand)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14		TC1	43	932,17	683,24

*

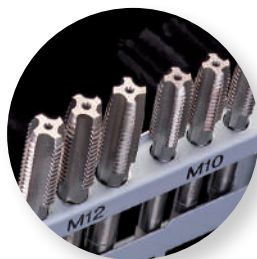
**HSSCo
5%**


** 2nd Quality: Die holder and tap holder in ZAMAK

HSS AND HSSCo HAND TAPS AND DIES IN METAL CASES WITH GUIDES FOR DIES

M3
M12


HSS
HSSCo
5%



Ref. D656



PILOT
GUIDE

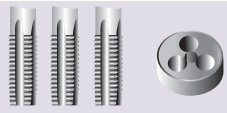






Ref. D657





PILOT
GUIDE

CONTENT

				 + PILOT GUIDE		No. Items	1st Quality €	**2nd Quality €
D656	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	TC1	43	578,71	512,29
D657* (HSSCo)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	TC1	43	861,50	760,39

* **HSSCo**
5%

** 2nd Quality: Die holder and tap holder in ZAMAK

HSS AND HSSCo HAND TAPS AND DIES IN METAL CASES
**M3
M20**
**M5
M20**
HSS
**HSSCo
5%**


Ref. D622



Ref. D623

CONTENT

					No. Items	1st Quality €	**2nd Quality €
D622 (Automotive)	M3 - M4 - M5 - M6 - M8 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	TC1 TC2	54	885,75	695,91
D658	M3 - M4 - M5 - M6 - M8 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	52	815,98	629,61
D6221 (Left hand)	M3 - M4 - M5 - M6 - M8 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	TC1 TC2	54	1594,35	1.252,64
D659* (HSSCo)	M3 - M4 - M5 - M6 - M8 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	52	1839,88	1.618,36
D623	M5 - M6 - M8 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	TC1 TC2	45	928,65	727,04
D663	M5 - M6 - M7 - M8 - M9 - M10 - M12 M14 - M16 - M18 - M20	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	51	1.238,09	1.113,64

*

**HSSCo
5%**


** 2nd Quality: Die holder and tap holder in ZAMAK

HSS HAND TAPS AND DIES IN METAL AND WOODEN CASES

M1
M10
M5
M12
M3
M24
M5
M30
HSS



Ref. D628



Ref. D626

CONTENT

					No. Items	1st Quality €	* 2nd Quality €
D626	M1 - M1.2 - M1.4 - M1.7 - M2.0 - M2.3 M2.6 - M3 - M3.5 - M4 - M5 - M6 - M8 - M10	N° 0 N° 1	16 x 5 20 x 5 20 x 7 25 x 9 30 x 11	TC1	64	-	1.158,45
D627	M5 - M6 - M7 - M8 - M9 - M10 - M11 - M12	N° 1 N° 2	20 x 7 25 x 9 30 x 11 38 x 14	TC1	39	-	865,42
D625	M3 - M4 - M5 - M6 - M8 - M10 - M12 - M14 M16 - M18 - M20 - M22 - M24	N° 1 N° 4	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22	-	61	2.044,04	1.508,17
D628	M5 - M6 - M8 - M10 - M12 - M14 - M16 M18 - M20 - M22 - M24 - M27 - M30	N° 1 N° 3 N° 5	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22 65 x 25	-	62	-	2.760,51

* 2nd Quality: Die holder and tap holder in ZAMAK




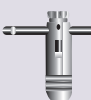
HSS HAND TAPS AND DIES IN METAL CASES
MF
HSS


Ref. D634



Ref. D636

CONTENT

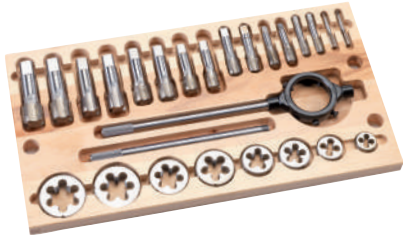
					No. Items	1st Quality €	* 2nd Quality €
D634	MF 3 x 0.35 - 4 x 0.5 - 5 x 0.5 MF 6 x 0.75 - 8 x 0.75 - 8 x 1.0 MF 10 x 1.0 - 12 x 1.5	Nº 1 Nº 2	20 x 5 25 x 9 30 x 11 38 x 10	TCl	31	-	794,00
D635	MF 6 x 0.75 - 8 x 0.75 - 8 x 1.0 - 10 x 1.0 MF 12 x 1.0 - 12 x 1.5 - 14 x 1.25 - 14 x 1.5 MF 16 x 1.5 - 18 x 1.5 - 20 x 1.5	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14	-	40	1.295,17	1.231,61
D636	MF 6 x 0.75 - 8 x 0.75 - 8 x 1.0 - 10 x 1.0 MF 12 x 1.0 - 12 x 1.5 - 14 x 1.25 - 14 x 1.5 MF 16 x 1.5 - 18 x 1.5 - 20 x 1.5 - 22 x 1.5 MF 24 x 1.5	Nº 1 Nº 4	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14 55 x 16	-	47	1.776,74	1.642,72

* 2nd Quality: Die holder and tap holder in ZAMAK

HSS HAND TAPS AND DIES IN METAL CASES

**BSP
(GAS)**

HSS



Ref. D638

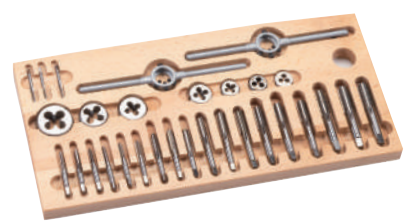
CONTENT

					No. Items	1st Quality €	* 2nd Quality €
D637	6 1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1"	Nº 1 Nº 3 Nº 5	30 x 11 38 x 10 45 x 14 55 x 16 65 x 18	-	26	1.438,04	1.161,63
D638	6 1/8 - 1/4 - 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1"	Nº 1 Nº 3 Nº 5	30 x 11 38 x 10 45 x 14 55 x 16 65 x 18	-	32	1.951,57	1.703,58
D639	6 1/4 - 3/8 - 1/2 - 3/4 - 1" - 1".1/4 - 1".1/2	Nº 2 Nº 4 Nº 7	38 x 10 45 x 14 55 x 16 65 x 18 75 x 20 90 x 22	-	30	3.600,32	3.037,02

* 2nd Quality: Die holder and tap holder in ZAMAK

BSW

HSS



Ref. D640

CONTENT





					No. Items	1st Quality €	* 2nd Quality €
D640	BSW 1/8 - 3/16 - 1/4 - 5/16 - 3/8 - 7/16 - 1/2	Nº 1 Nº 2	20 x 5 20 x 7 25 x 9 30 x 11 38 x 14	TCl	36	802,23	685,78
D641	BSW 1/4 - 5/16 - 3/8 - 7/16 - 1/2	Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 14	TCl	27	661,33	557,02
D642	BSW 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	35	1.183,54	1.079,93
D643	BSW 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 - 1"	Nº 1 Nº 4	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22	-	44	1.673,80	1.469,54
D646	BSW 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 - 1" - 1".1/8 1".1/4 - 1".3/8 - 1".1/2	Nº 1 Nº 3 Nº 5	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22 65 x 25	-	62	-	4.465,59

* 2nd Quality: Die holder and tap holder in ZAMAK

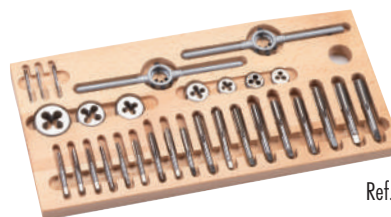
HSS HAND TAPS AND DIES IN METAL CASES
BSF
HSS


Ref. D648

CONTENT

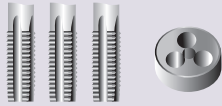



					No. Items	1st Quality €	* 2nd Quality €
D664	BSF 1/4 - 5/16 - 3/8 - 7/16 - 1/2	Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 10	TC1	22	739,56	650,51
D648	BSF 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14	-	28	1.148,09	1.079,93
D665	BSF 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 - 1"	Nº 1 Nº 4	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14 55 x 16	-	35	1.948,12	1.713,55

* 2nd Quality: Die holder and tap holder in ZAMAK

**BSW
BSF**
HSS


Ref. D666

CONTENT

					No. Items	1st Quality €	* 2nd Quality €
D666	BSW 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4 BSF 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	63	2.200,66	1.935,68

* 2nd Quality: Die holder and tap holder in ZAMAK





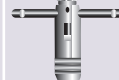
HSS HAND TAPS AND DIES IN METAL CASES

NPT **HSS**



Ref. D660

CONTENT

						No. Items	1st Quality €	* 2nd Quality €
D660	NPT 1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1"		Nº 1 Nº 3 Nº 5	30 x 11 38 x 14 45 x 18 55 x 22 65 x 25	-	20	2.080,19	1.973,16
D661	NPT 1/8 - 1/4 - 3/8 - 1/2 - 3/4 1" - 1.1/4 - 1.1/2 - 2"		Nº 2 Nº 4 Nº 7	30 x 11 38 x 14 45 x 18 55 x 22 65 x 25 75 x 30 90 x 36 105 X 36	-	29	6.227,02	5.850,26

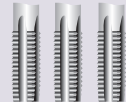




* 2nd Quality: Die holder and tap holder in ZAMAK

UNC **HSS**



Ref. D650

CONTENT

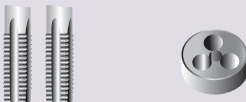


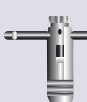
						No. Items	1st Quality €	* 2nd Quality €
D650	UNC 1/4 - 5/16 - 3/8 - 7/16 - 1/2		Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 14	TCT	27	806,09	723,50
D667	UNC 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4		Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	35	1.298,75	1.142,36
D654	UNC 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 - 1"		Nº 1 Nº 4	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22	-	44	2.095,65	1.961,26
D668	UNC 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4 7/8 - 1" - 1.1/8 - 1.1/4 - 1.3/8 - 1.1/2"		Nº 1 Nº 3 Nº 6	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18 55 x 22 65 x 25	-	62	4.906,35	4.315,59

* 2nd Quality: Die holder and tap holder in ZAMAK

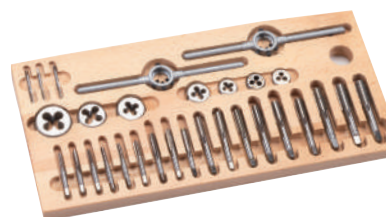
HSS HAND TAPS AND DIES IN METAL CASES
UNF
HSS


Ref. D644

CONTENT

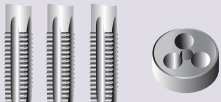

					No. Items	1st Quality €	* 2nd Quality €
D644	UNF 1/4 - 5/16 - 3/8 - 7/16 - 1/2	Nº 1 Nº 2	20 x 7 25 x 9 30 x 11 38 x 10	TCT	22	631,65	547,58
D669	UNF 1/4-5/16 -3/8 -7/16 -1/2 -5/8 -3/4	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14	-	28	1.190,50	1.047,16
D645	UNF 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 3/4 - 7/8 - 1"	Nº 1 Nº 4	20 x 7 25 x 9 30 x 11 38 x 10 45 x 14 55 x 16	-	34	1.459,80	1.323,60

* 2nd Quality: Die holder and tap holder in ZAMAK

**UNC
UNF**
HSS


Ref. D670

CONTENT

					No. Items	1st Quality €	* 2nd Quality €
D670	UNC 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4 UNF 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8 - 3/4	Nº 1 Nº 3	20 x 7 25 x 9 30 x 11 38 x 14 45 x 18	-	35	2.200,66	1.935,68

* 2nd Quality: Die holder and tap holder in ZAMAK

HSS & TIN COATED HAND TAPS SETS IN METAL BOXES



Ref. JMBO



Ref. JMB2



Ref. JMBT2

CONTENT

					HSS €		TiN* €
JMB2	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	204,49	JMBT2	406,02
JMBO	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	233,25	JMBT0	455,63
JMB1	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	-	251,04	JMBT1	390,43
JMB5	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	TC1	266,64	JMBT5	409,11
JMBI2 (Left hand)	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	368,07	JMBIT2	730,83
JMBI0 (Left hand)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	419,86	JMBIT0	820,14
JMBI1 (Left hand)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	-	451,88	JMBIT1	702,78

HSS AND TIN COATED BOTTOMING TAPS IN METAL BOXES



Ref. JMB3



Ref. JMB4

CONTENT

3°					HSS €		TiN* €
JMB3	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	93,87	JMBT3	117,55
JMB4	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	116,83	JMBT4	155,29
JMB7	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	-	133,69	JMBT7	215,41
JMB6	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	TC1	144,77	JMBT6	229,60
JMBI3 (Left hand)	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	168,97	JMBIT3	211,60
JMBI4 (Left hand)	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	210,30	JMBIT4	279,53



HSSCo HAND TAPS IN METAL BOXES
HSSCo
5%


Ref. JMBX0

CONTENT

INOX	 MOX	 HSSCo			€
JMBX0	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	322,33
JMBX1	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	-	339,23
JMBX2	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	304,80


CONTENT

 T1100 N/mm ²	 MOMD	 HSSCo			€
JMBMD0	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	-	-	336,62
JMBMD1	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5 / 3.3 / 4.2 / 5.0 6.8 / 8.5 / 10.2 mm	Nº 1.1/2	-	354,13
JMBMD2	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	320,88

HSS DIES IN METAL BOXES


Ref. C5B3



CONTENT

		HSS €
C5B3	M3 - M4 - M5 - M6 - M8 - M10 - M12	244,31
C5B3I (Left hand)	M3 - M4 - M5 - M6 - M8 - M10 - M12	439,75



BROKEN TAP EXTRACTOR FOR STRAIGHT FLUTE TAPS (WITHOUT HELIX)



SINGLE EXTRACTORS

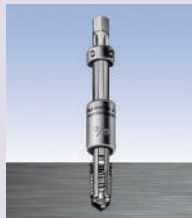
TAP EXTRACTOR SIZE Ø		HAND TAPS	MACHINE TAPS	€/ Unit
BSW UNC	M			COMPLETE EXTRACTOR
--	M3		W10043	46,59
1/8	M3,2		W10053	46,59
--	M3,5		W10063	46,59
5/32	M4		W10083	46,59
3/16	M5		W10103	46,59
--	M5,5	W10124	W10123	46,59
1/4	M6		W10253	47,96
5/16	M8	W10314	W10313	50,25
--	M9	W10374	W10373	49,78
3/8	M10	W10404	W10373	49,78
7/16	M11	W10434	W10433	52,55
1/2	M12	W10504	W10503	56,19
9/16	M14	W10564	W10563	77,65
5/8	M16	W10624	W10623	84,51
--	M18	W10684	W10753	104,71
3/4	M20	W10754	W10753	104,71
7/8	M22	W10874	W10873	114,58
1"	M25	W11004	W11003	127,77

SPARE HOLDER

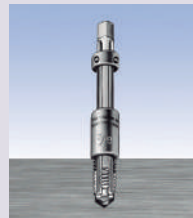
HAND TAPS	MACHINE TAPS	€/ Unit
		EXTRA HOLDER
	W12043	2,48
	W12053	2,48
	W12063	2,48
	W12083	2,48
	W12103	3,70
	W12123	3,70
	W12253	4,51
W12314	W12313	5,09
W12374		5,09
W12404	W12373	5,25
W12434	W12433	5,34
W12504	W12503	6,72
W12564	W12563	7,49
W12624	W12623	9,58
W12684		9,58
W12754	W12753	10,14
W12874	W12873	13,13
W13004	W13003	21,86

3 SIMPLE STEPS FOR REMOVING BROKEN TAPS WITH STRAIGHT FLUTES

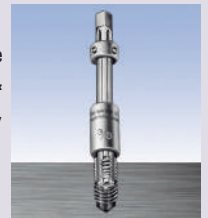
Thoroughly remove all chips of the broken tap. Insert the extractors fingers into the flutes of the broken tap, pushing them gently but firmly into position.



Push the holder down until it touches the broken tap. Slide the sleeve down until it touches the work piece.



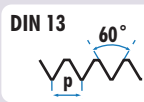
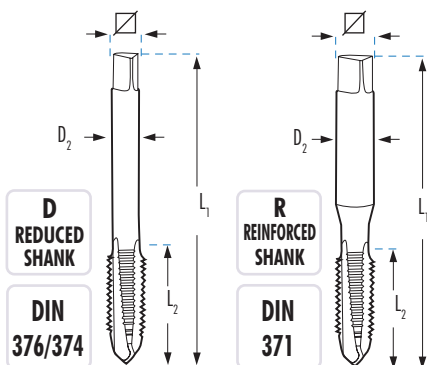
Apply a tap wrench to the square end of the holder. Twist forward & backwards a few times to loosen, then back out the broken tap.



BROKEN TAP EXTRACTORS SETS FOR STRAIGHT FLUTES TAPS



	NUMBER OF FLUTES	SIZES INCLUDED FOR MACHINE & HAND TAPS: 3 AND 4 FLUTES	
W180013	3	M5- M6- M8- M10- M11- M12	322,98
W180014	4	3/16 - 1/4 - 5/16 - 3/8 - 7/16 - 1/2	
W180023	3	M6- M8 -M10- M11- M12- M16	363,37
W180024	4	1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 5/8	
W180153	3	M3- M3,2- M3,5- M4-M5- M5,50- M6- M8	1.016,43
W180154	4	M9- M10- M12- M16- M18- M22- M25	

HSSCo MACHINE TAPS
M
MF

HSSCo
5%
TOL
6H
Vc
12 m/min

D
REDUCED
SHANK
DIN
376/374
R
REINFORCED
SHANK
DIN
371


			L1 x L2 x D2 x ∇ mm	M1D	M2D	M3D	M4D	M1R	M2R	M3R	M4R
				C FORM €	B FORM €	 15° €	 35° €	C FORM €	B FORM €	 15° €	 35° €
M 1x0,25	0,75	R	40 x 5,5 x 2,5 x 2,1					45,51			
M 1,1x0,25	0,85	R	40 x 6 x 2,5 x 2,1					44,27			
M 1,2x0,25	0,95	R	40 x 6 x 2,5 x 2,1					40,44			
M 1,4x0,30	1,10	R	40 x 7 x 2,5 x 2,1					40,44			
M 1,6x0,35	1,25	R	40 x 8 x 2,5 x 2,1					39,71			
M 1,7x0,35	1,35	R	40 x 8 x 2,5 x 2,1					38,24			
M 1,8x0,35	1,45	R	40 x 8 x 2,5 x 2,1					37,30			
M 2x0,40	1,60	R	40 x 8 x 2,8 x 2,1					17,96	19,90	22,25	22,67
M 2,2x0,45	1,75	R	40 x 9 x 2,8 x 2,1					19,41			
M 2,3x0,40	1,90	R	40 x 9 x 2,8 x 2,1					17,88			
M 2,5x0,45	2,05	R	50 x 9 x 2,8 x 2,1					17,96	19,90	31,28	22,67
M 2,6x0,45	2,10	R	50 x 9 x 2,8 x 2,1					17,99	20,25		37,68
M 3x0,50	2,50	R D	56 x 11 x 3,5 x 2,7 56 x 11 x 2,2 x 1,8	11,90	12,88	17,93	15,46	11,90*	12,09	17,58	15,84
M 3x0,60	2,40	R	56 x 11 x 3,5 x 2,7					21,15	23,08		30,48
M 3,5x0,60	2,90	R D	56 x 12 x 4,0 x 3,0 56 x 12 x 2,5 x 2,1					17,29	18,00	23,25	21,82
M 3,5x0,75	2,75	R	56 x 12 x 4,0 x 3,0					22,86			
M 4x0,50	3,50	R D	63 x 13 x 4,5 x 3,4 63 x 13 x 2,8 x 2,1	26,05	28,69		30,33	24,90	27,70		32,07
M 4x0,70	3,30	R D	63 x 13 x 4,5 x 3,4 63 x 13 x 2,8 x 2,1	12,11	13,02	19,23	15,31	13,53*	12,77	17,35	15,86
M 4x0,75	3,25	R	63 x 13 x 4,5 x 3,4					18,93	20,21		
M 4x0,80	3,20	R	63 x 13 x 4,5 x 3,4					100,49			
M 4,5x0,50	4,00	R	70 x 14 x 6,0 x 4,9						32,22		
M 4,5x0,75	3,75	R	70 x 14 x 6,0 x 4,9					23,36	25,73		
M 5x0,50	4,50	R D	70 x 14 x 6,0 x 4,9 70 x 11 x 3,5 x 2,7	26,83	29,47		30,67	25,64	28,46		34,21
M 5x0,75	4,50	R D	74 x 14 x 6,0 x 4,9 70 x 16 x 3,5 x 2,7					23,00	26,97		33,99
M 5x0,80	4,20	R D	70 x 16 x 6,0 x 4,9 70 x 16 x 3,5 x 2,7	12,11	13,09	18,43	14,70	12,12*	12,79	16,64	15,20
M 5x0,90	4,10	R D	70 x 15 x 6,0 x 4,9 70 x 16 x 3,5 x 2,7					20,00	25,77		
M 5x1,00	4,00	R	72 x 17 x 6,0 x 4,9					53,57			
M 5,5x0,90	4,60	R	80 x 17 x 6,0 x 4,9					53,57			
M 6x0,50	5,50	R D	80 x 17 x 6,0 x 4,9 80 x 13 x 4,5 x 3,4	31,76	38,94		49,14	33,57			
M 6x0,75	5,25	R D	80 x 13 x 6,0 x 4,9 80 x 13 x 4,5 x 3,4	20,93	24,23		28,30	21,75	25,34		30,43
M 6x1,00	5,00	R D	80 x 19 x 6,0 x 4,9 80 x 19 x 4,5 x 3,4	13,81	14,34	19,28	16,12	13,79*	14,03	18,26	16,67

* Check the price of left hand taps available in page 215.

* Vc: Cutting Speed (m/min)

HSSCo MACHINE TAPS

M
MF



DIN 13
60°

HSSCo
5%

TOL
6H

D
REDUCED
SHANK

DIN
376/374



Vc
12 m/min

R
REINFORCED
SHANK

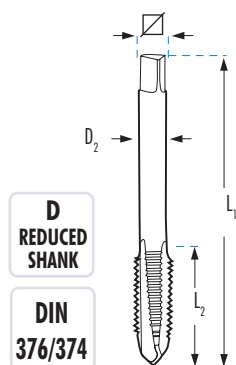
DIN
371

M	L1 x L2 x D2 x mm	R	M1D	M2D	M3D	M4D	M1R	M2R	M3R	M4R
			€	€	€	€	€	€	€	€
M 6x1,25	4,75	R	80 x 17 x 6,0 x 4,9				52,66			
M 7x0,75	6,25	D	80 x 13 x 5,5 x 4,3	26,94	29,88	36,91				
M 7x1,00	6,00	R	80 x 19 x 7,0 x 5,5	18,57	21,47	23,19	17,88 *	20,87	23,60	23,36
		D	80 x 19 x 5,5 x 4,3							
M 8x0,50	7,50	D	80 x 13 x 6 x 4,9	36,24						
M 8x0,75	7,25	D	80 x 13 x 6 x 4,9	26,25	32,19	39,92				
M 8x1,00	7,00	D	90 x 20 x 6 x 4,9	21,47	24,64	29,53				
M 8x1,25	6,80	R	90 x 22 x 8 x 6,2	15,49	16,18	21,95	15,58 *	15,59	21,02	19,05
		D	90 x 22 x 6 x 4,9							
M 8x1,50	6,50	D	90 x 20 x 6 x 4,9	106,20						
M 9x1,00	8,00	D	90 x 20 x 7 x 5,5	32,47	34,71	36,89				
M 9x1,25	7,80	R	90 x 22 x 9 x 7,0	26,09	27,42	33,20	25,84	26,18	33,47	33,39
		D	90 x 22 x 7 x 5,5							
M 10x0,50	9,50	D	90 x 20 x 7 x 5,5	105,22						
M 10x0,75	9,25	D	90 x 16 x 7 x 5,5	41,62	41,71	50,79				
M 10x1,00	9,00	D	90 x 16 x 7 x 5,5	23,77	27,38	34,86				
M 10x1,25	8,80	D	100 x 22 x 7 x 5,5	27,22	32,74	38,00				
M 10x1,50	8,50	R	100 x 24 x 10 x 8,0	17,50	19,57	26,09	17,66 *	19,20	24,14	22,55
		D	100 x 24 x 7 x 5,5							
M 11x1,00	10,00	D	90 x 20 x 8 x 6,2	42,61	44,01	111,26				
M 11x1,25	9,75	D	100 x 22 x 8 x 6,2	40,77	45,30	111,26				
M 11x1,50	9,50	D	100 x 24 x 8 x 6,2	33,05	38,00	81,12				
M 12x0,75	11,25	D	100 x 22 x 9 x 7,0	62,43						
M 12x1,00	11,00	D	100 x 22 x 9 x 7,0	32,33	37,00	43,01				
M 12x1,25	10,75	D	100 x 22 x 9 x 7,0	32,73	36,35	41,18				
M 12x1,50	10,50	D	100 x 22 x 9 x 7,0	29,25*	32,42	39,60				
M 12x1,75	10,20	D	110 x 28 x 9 x 7,0	21,08*	24,44	33,37				
M 13x0,75	12,25	D	100 x 22 x 11 x 9,0	108,97						
M 13x1,00	12,00	D	100 x 22 x 11 x 9,0	57,71	65,34					
M 13x1,25	11,75	D	100 x 22 x 11 x 9,0	57,71	65,34					
M 13x1,50	11,50	D	100 x 22 x 11 x 9,0	57,71	65,34					
M 13x1,75	11,25	D	100 x 28 x 11 x 9,0	57,30	65,34					
M 14x0,75	13,25	D	100 x 22 x 11 x 9,0	108,97						
M 14x1,00	13,00	D	100 x 22 x 11 x 9,0	52,04	57,25	66,31	65,75			
M 14x1,25	12,80	D	100 x 22 x 11 x 9,0	44,29	48,34	60,82	57,94			
M 14x1,50	12,50	D	100 x 22 x 11 x 9,0	34,84*	38,39	47,96	45,69			
M 14x2,00	12,00	D	110 x 30 x 11 x 9,0	34,61*	38,45	44,56	44,56			
M 15x1,00	14,00	D	100 x 22 x 12 x 9,0	66,18	70,07	89,22				
M 15x1,25	13,75	D	100 x 22 x 12 x 9,0	70,89	76,77					
M 15x1,50	13,50	D	100 x 22 x 12 x 9,0	56,66	64,62	165,08	133,91			
M 15x2,00	13,00	D	110 x 30 x 12 x 9,0	69,35	76,32					
M 16x1,00	15,00	D	100 x 22 x 12 x 9,0	62,38	66,18	92,84	90,14			
M 16x1,25	14,75	D	100 x 22 x 12 x 9,0	66,75	73,37	103,25	99,98			
M 16x1,50	14,50	D	100 x 22 x 12 x 9,0	41,19*	48,00	59,77	56,94			
M 16x2,00	14,00	D	110 x 32 x 12 x 9,0	40,73*	44,98	53,83	53,83			
M 17x1,00	16,00	D	100 x 22 x 12 x 9,0	124,11						
M 17x1,25	15,75	D	100 x 22 x 12 x 9,0	124,11						
M 17x1,50	15,50	D	100 x 22 x 12 x 9,0	124,11						
M 18x1,00	17,00	D	110 x 25 x 14 x 11,0	69,86	76,78		110,30			
M 18x1,25	16,75	D	110 x 25 x 14 x 11,0	86,58						
M 18x1,50	16,50	D	110 x 25 x 14 x 11,0	54,54*	60,02	73,45	71,46			
M 18x2,00	16,00	D	125 x 30 x 14 x 11,0	76,97	85,29	145,34	129,72			

* Check the price of left hand taps available in page 215.

* Vc: Cutting Speed (m/min)

HSSCo MACHINE TAPS
M
MF

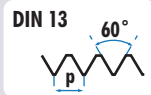
HSSCo
5%
TOL
6H
D
REDUCED
SHANK
DIN
376/374
Vc
12 m/min


		L1 x L2 x D2 x \square mm	M1D	M2D	M3D	M4D
			C FORM	B FORM	15°	35°
			€	€	€	€
M 18x2,50	15,50	D 125 x 34 x 14 x 11,0	58,60*	64,07	72,48	69,80
M 19x1,00	18,00	D 110 x 22 x 14 x 11,0	163,07			
M 19x1,25	17,75	D 110 x 25 x 14 x 11,0	167,70			
M 19x1,50	17,50	D 110 x 25 x 14 x 11,0	160,06			
M 20x1,00	19,00	D 125 x 25 x 16 x 12,0	92,22	102,41		117,81
M 20x1,25	18,75	D 125 x 25 x 16 x 12,0	163,07			
M 20x1,50	18,50	D 125 x 25 x 16 x 12,0	61,77*	67,88	82,55	81,64
M 20x2,00	18,00	D 140 x 32 x 16 x 12,0	80,96	89,01		105,09
M 20x2,50	17,50	D 140 x 34 x 16 x 12,0	62,38*	69,17	77,35	77,36
M 21x1,00	20,00	D 125 x 25 x 16 x 12,0	236,76			
M 21x1,25	19,75	D 125 x 25 x 16 x 12,0	236,76			
M 21x1,50	19,50	D 125 x 25 x 16 x 12,0	226,11			
M 22x1,00	21,00	D 125 x 25 x 18 x 14,5	103,38	109,73		151,82
M 22x1,25	20,75	D 125 x 25 x 18 x 14,5	163,07			
M 22x1,50	20,50	D 125 x 25 x 18 x 14,5	74,35	81,78	90,55	85,20
M 22x2,00	20,00	D 140 x 32 x 18 x 14,5	103,38	113,70		151,82
M 22x2,50	19,50	D 140 x 34 x 18 x 14,5	75,48*	83,02	91,76	90,80
M 23x1,00	22,00	D 125 x 25 x 18 x 14,5	230,18			
M 23x1,50	21,50	D 125 x 25 x 18 x 14,5	230,18			
M 24x1,00	23,00	D 140 x 25 x 18 x 14,5	112,65	136,66		160,41
M 24x1,25	22,75	D 140 x 25 x 18 x 14,5	236,76			
M 24x1,50	22,50	D 140 x 28 x 18 x 14,5	91,44	100,54	121,03	115,29
M 24x2,00	22,00	D 140 x 28 x 18 x 14,5	116,67*	127,11		137,16
M 24x3,00	21,00	D 160 x 38 x 18 x 14,5	90,36*	98,90	110,59	110,37
M 25x1,00	24,00	D 140 x 28 x 18 x 14,5	218,39			
M 25x1,25	23,75	D 140 x 28 x 18 x 14,5	345,09			
M 25x1,50	23,50	D 140 x 28 x 18 x 14,5	142,28	150,58		
M 25x2,00	23,00	D 140 x 28 x 18 x 14,5	306,26	336,90		
M 26x1,00	25,00	D 140 x 28 x 18 x 14,5	169,55			
M 26x1,50	24,50	D 140 x 28 x 18 x 14,5	123,31	129,26	226,74	199,38
M 26x2,00	24,00	D 140 x 28 x 18 x 14,5	238,83	262,72		288,56
M 27x1,00	26,00	D 140 x 28 x 20 x 16,0	151,86	196,08		
M 27x1,50	25,50	D 140 x 28 x 20 x 16,0	134,64	142,63	329,52	297,12
M 27x2,00	25,00	D 140 x 28 x 20 x 16,0	166,54*	176,22		

* Check the price of left hand taps available in page 215.

* Vc: Cutting Speed (m/min)

HSSCo MACHINE TAPS



HSSCo
5%

TOL
6H

D
REDUCED
SHANK

DIN
376/374



Threading tools

Pink

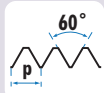
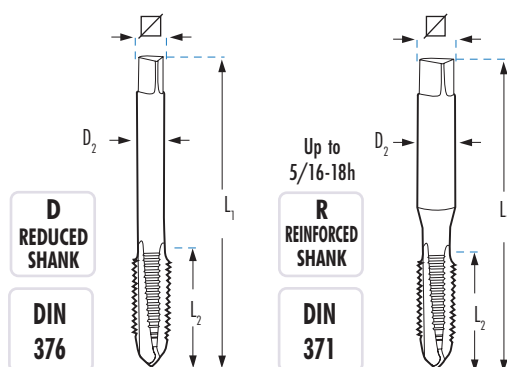
			L1 x L2 x D2 x \square mm	M1D	M2D	M3D	M4D
				C FORM	B FORM		
				€	€	€	€
M 27x3,00	24,00	D	160 x 36 x 20 x 16	112,80*	123,70	136,06	135,80
M 28x1,00	27,00	D	140 x 28 x 20 x 16	306,26			
M 28x1,50	26,50	D	140 x 28 x 20 x 16	134,64	147,82	171,60	154,93
M 28x2,00	26,00	D	140 x 28 x 20 x 16	164,26	185,51	202,23	198,87
M 30x1,00	29,00	D	150 x 28 x 22 x 18	172,21	199,13		232,17
M 30x1,50	28,50	D	150 x 28 x 22 x 18	140,34	154,42	186,09	177,24
M 30x2,00	28,00	D	150 x 28 x 22 x 18	173,71*	184,37		255,11
M 30x3,50	26,50	D	180 x 40 x 22 x 18	144,55*	158,93	174,38	174,02
M 32x1,00	31,00	D	150 x 28 x 22 x 18	408,38	433,63		
M 32x1,50	30,50	D	150 x 28 x 22 x 18	177,58	194,96	229,28	
M 32x2,00	30,00	D	150 x 28 x 22 x 18	218,20	334,11		
M 33x1,00	32,00	D	160 x 30 x 25 x 20	376,11			
M 33x1,50	31,50	D	160 x 30 x 25 x 20	200,07	212,19		246,97
M 33x2,00	31,00	D	160 x 30 x 25 x 20	327,90	335,17		409,00
M 33x3,50	29,50	D	180 x 40 x 25 x 20	173,71*	199,88		221,70
M 34x1,50	32,50	D	170 x 30 x 28 x 22	222,82	236,04		
M 34x2,00	32,00	D	160 x 30 x 28 x 22	468,60			
M 35x1,50	33,50	D	170 x 30 x 28 x 22	234,99	258,48		282,66
M 35x2,00	33,00	D	170 x 30 x 28 x 22	432,41	476,03		
M 36x1,50	34,50	D	170 x 30 x 28 x 22	214,57	253,67		307,06
M 36x2,00	34,00	D	170 x 30 x 28 x 22	289,81	301,25		
M 36x3,00	33,00	D	200 x 50 x 28 x 22	332,50	345,58		444,41
M 36x4,00	32,00	D	200 x 50 x 28 x 22	227,99*	244,25	283,71	271,46
M 38x1,50	36,50	D	170 x 30 x 28 x 22	228,74	257,73		
M 38x2,00	36,00	D	170 x 32 x 28 x 22	486,19	534,84		
M 39x1,50	37,50	D	170 x 32 x 32 x 24	359,45			
M 39x2,00	37,00	D	170 x 32 x 32 x 24	359,45			
M 39x3,00	36,00	D	200 x 47 x 32 x 24	469,40			
M 39x4,00	35,00	D	200 x 50 x 32 x 24	273,53	284,33		350,60
M 40x1,50	38,50	D	170 x 30 x 32 x 24	299,09	329,21		
M 40x2,00	38,00	D	170 x 30 x 32 x 24	360,39			
M 40x3,00	37,00	D	200 x 47 x 32 x 24	353,35	421,56		
M 42x1,50	40,50	D	170 x 30 x 32 x 24	326,35	318,95		
M 42x2,00	40,00	D	170 x 30 x 32 x 24	412,28			
M 42x3,00	39,00	D	200 x 45 x 32 x 24	412,28	493,71		
M 42x4,50	37,50	D	200 x 56 x 32 x 24	351,73	365,51		390,84
M 45x1,50	43,50	D	180 x 32 x 36 x 29	389,78	428,72		
M 45x2,00	43,00	D	180 x 32 x 36 x 29	477,38			
M 45x3,00	42,00	D	200 x 47 x 36 x 29	477,38			
M 45x4,50	40,50	D	220 x 58 x 36 x 29	384,21	422,60		
M 48x1,50	46,50	D	190 x 32 x 36 x 29	384,21			
M 48x2,00	46,00	D	190 x 32 x 36 x 29	620,81			
M 48x3,00	45,00	D	220 x 52 x 36 x 29	578,50			
M 48x5,00	43,00	D	250 x 65 x 36 x 29	472,47	519,69		
M 50x1,50	48,50	D	190 x 32 x 36 x 29	465,66			
M 52x1,50	50,50	D	190 x 32 x 40 x 32	454,90			
M 52x2,00	50,00	D	190 x 32 x 40 x 32	719,89			
M 52x3,00	49,00	D	225 x 50 x 40 x 32	739,85			
M 52x5,00	47,00	D	250 x 65 x 40 x 32	483,87	598,70		





* Check the price of left hand taps available in page 215.

* Vc: Cutting Speed (m/min)

HSSCo MACHINE TAPS

UNC

HSSCo
5%TOL
2BVc
12 m/min

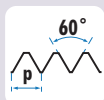
 	D1 mm	 Ø	L1 x L2 x D2 x ∇ mm	M1R	M2R	M4R
				C FORM €	B FORM €	 35° €
UNC n° 4-40h	2,84	2,25	R 56 x 11 x 3,5 x 2,7	26,92	32,01	36,53
UNC n° 5-40h	3,17	2,60	R 56 x 11 x 3,5 x 2,7	27,90	33,47	36,53
UNC n° 6-32h	3,50	2,75	R 56 x 12 x 4,0 x 3,0	26,55	31,91	36,37
UNC n° 8-32h	4,17	3,50	R 63 x 13 x 4,5 x 3,4	26,55	31,91	34,79
UNC n°10-24h	4,83	3,90	R 70 x 15 x 6,0 x 4,9	27,90	33,47	38,21
UNC n°12-24h	5,49	4,50	R 80 x 16 x 6,0 x 4,9	29,27	33,47	35,07
UNC 1/4-20h	6,35	5,10	R 80 x 17 x 7,0 x 5,5	26,08	28,43	32,81
UNC 5/16-18h	7,94	6,60	R 90 x 20 x 8,0 x 6,2	29,52	32,54	37,05

REDUCED SHANK STANDARD PITCH				M1D	M2D	M4D
UNC 3/8-16h	9,52	8,00	D 100 x 22 x 7,0 x 5,5	33,65	35,29	39,66
UNC 7/16-14h	11,11	9,40	D 100 x 22 x 8,0 x 6,2	46,32	46,47	58,12
UNC 1/2-13h	12,70	10,75	D 110 x 24 x 9,0 x 7,0	50,26	55,69	63,57
UNC 9/16-12h	14,28	12,20	D 110 x 26 x 11,0 x 9,0	69,09	75,86	86,30
UNC 5/8-11h	15,87	13,50	D 110 x 27 x 12,0 x 9,0	67,13	73,88	83,93
UNC 3/4-10h	19,05	16,50	D 125 x 30 x 14,0 x 11,0	88,87	97,70	111,16
UNC 7/8-9h	22,22	19,50	D 140 x 32 x 18,0 x 14,5	116,94	128,48	173,94
UNC 1"-8h	25,40	22,25	D 160 x 36 x 18,0 x 14,5	154,52	168,80	218,20
UNC 1.1/8-7h	28,57	25,00	D 180 x 40 x 22,0 x 18,0	201,83		243,80
UNC 1.1/4-7h	31,75	28,00	D 180 x 40 x 22,0 x 18,0	236,57		311,89
UNC 1.3/8-6h	34,92	30,75	D 200 x 50 x 28,0 x 22,0	352,86		
UNC 1.1/2-6h	38,10	34,00	D 200 x 50 x 32,0 x 24,0	400,72		

* Vc: Cutting Speed (m/min)

HSSCo MACHINE TAPS

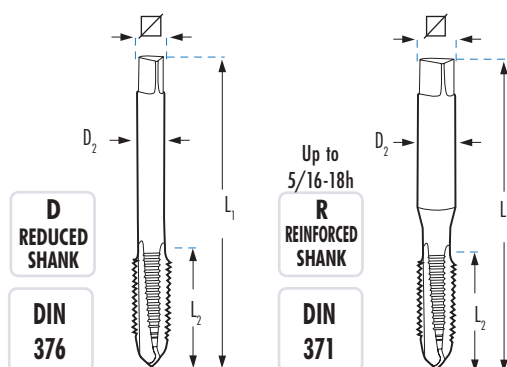
UNF



HSSCo
5%

TOL
2B

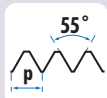
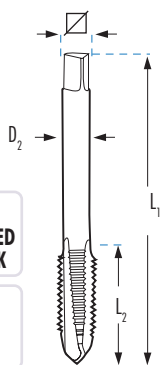
Vc
12 m/min



		D1 mm		L1 x L2 x D2 x ∇ mm	M1R	M2R	M4R
					C FORM	B FORM	
					€	€	€
UNF	n° 4-48h	2,84	2,35	R 56 x 11 x 3,5 x 2,7	28,18	30,68	38,51
UNF	n° 5-44h	3,17	2,70	R 56 x 11 x 3,5 x 2,7	28,18	30,68	38,51
UNF	n° 6-40h	3,50	2,95	R 56 x 12 x 4,0 x 3,0	26,95	32,28	38,22
UNF	n° 8-36h	4,17	3,50	R 63 x 13 x 4,5 x 3,4	26,95	32,28	38,22
UNF	n°10-32h	4,83	4,10	R 70 x 15 x 6,0 x 4,9	26,95	32,28	38,22
UNF	n°12-28h	5,49	4,60	R 80 x 16 x 6,0 x 4,9	28,18	33,77	38,51
UNF	1/4-28h	6,35	5,50	R 80 x 17 x 7,0 x 5,5	22,76	24,38	28,44
UNF	5/16-24h	7,94	6,90	R 90 x 20 x 8,0 x 6,2	25,45	28,06	32,80

REDUCED SHANK STANDARD PITCH				M1D	M2D	M4D	
UNF	3/8-24h	9,52	8,50	D 90 x 16 x 7,0 x 5,5	27,87	32,24	41,03
UNF	7/16-20h	11,11	9,90	D 100 x 22 x 8,0 x 6,2	34,38	39,85	52,61
UNF	1/2-20h	12,70	11,50	D 100 x 22 x 9,0 x 7,0	36,60	42,37	55,97
UNF	9/16-18h	14,29	12,90	D 100 x 22 x 11,0 x 9,0	44,97	52,08	69,30
UNF	5/8-18h	15,87	14,50	D 100 x 22 x 12,0 x 9,0	50,63	58,58	77,43
UNF	3/4-16h	19,05	17,50	D 110 x 25 x 14,0 x 11,0	64,79	75,02	99,04
UNF	7/8-14h	22,22	20,40	D 125 x 25 x 18,0 x 14,5	81,47	101,91	151,49
UNF	1"-12h	25,40	23,25	D 140 x 28 x 18,0 x 14,5	122,63	133,53	178,30
UNS	1"-14h	25,40	23,60	D 140 x 28 x 18,0 x 14,5	123,18	137,36	178,31
UNF	1.1/8-12h	28,57	26,50	D 150 x 28 x 22,0 x 18,0	186,85		
UNF	1.1/4-12h	31,75	29,50	D 150 x 28 x 22,0 x 18,0	236,12		
UNF	1.1/2-12h	38,10	36,00	D 170 x 30 x 32,0 x 24,0	396,29		

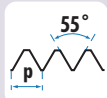
* Vc: Cutting Speed (m/min)

HSSCo MACHINE TAPS
**BSP
(GAS)**

**HSSCo
5%**
**TOL
ISO 228**
INOX
**Vc
12 m/min**
**Vc
6 m/min**

**D
REDUCED
SHANK**
**DIN
5156**


		D1 mm		L1 x L2 x D2 x mm	M1D		M2D		M3D		M4D		M2DX		M4DX	
					C FORM	B FORM	15°	35°	B FORM	35°	€	€	€	€	€	€
G 1/8-28h.	9,728	8,80	D	90 x 16 x 7 x 5,5	35,64 *	40,71	41,71	43,22	62,93	62,28						
G 1/4-19h.	13,157	11,80	D	100 x 22 x 11 x 9,0	49,42 *	54,41	59,89	62,07	84,78	90,74						
G 3/8-19h.	16,662	15,25	D	100 x 22 x 12 x 9,0	59,18 *	65,11	71,54	74,12	100,58	106,64						
G 1/2-14h.	20,955	19,00	D	125 x 25 x 16 x 12,0	74,79 *	82,30	90,23	93,47	124,53	134,60						
G 5/8-14h.	22,911	21,00	D	125 x 25 x 18 x 14,5	93,20 *	97,74	112,34	111,30								
G 3/4-14h.	26,441	24,50	D	140 x 28 x 20 x 16,0	117,06	128,85	141,23	146,33	188,16	207,59						
G 7/8-14h.	30,201	28,25	D	150 x 28 x 22 x 18,0	157,36	165,54	189,95	188,17								
G 1"-11h.	33,249	30,75	D	160 x 30 x 25 x 20,0	181,71	199,84	216,86	224,70								
G 1.1/8-11h.	37,897	35,50	D	170 x 30 x 28 x 22,0	290,16	316,50		347,61								
G 1.1/4-11h.	41,910	39,50	D	170 x 30 x 32 x 24,0	340,46	358,22		396,56								
G 1.3/8-11h.	44,323	42,00	D	180 x 32 x 36 x 29,0	407,12			550,85								
G 1.1/2-11h.	47,803	45,25	D	190 x 32 x 36 x 29,0	542,89	756,81		716,95								
G 1.3/4-11h.	53,746	51,25	D	190 x 32 x 40 x 32,0	645,29	746,53										
G 2"-11h.	59,614	57,00	D	220 x 36 x 45 x 35,0	823,00	819,19										

* Also available in left-hand cutting: twice the standard price

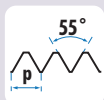
* Vc: Cutting Speed (m/min)

BSF

**HSSCo
5%**
**TOL
ISO 228**
**Vc
12 m/min**
**D
REDUCED
SHANK**
**DIN
5156**

		D1 mm		L1 x L2 x D2 x mm	M1D	
					C FORM	€
BSF 3/16-32h.	4,762	4,00	D	70 x 16 x 3,5 x 2,7		81,54
BSF 1/4-26h.	6,350	5,20	D	80 x 17 x 4,5 x 3,4		35,68
BSF 5/16-22h.	7,938	6,60	D	90 x 20 x 6,0 x 4,9		42,37
BSF 3/8-20h.	9,525	8,10	D	100 x 22 x 7,0 x 5,5		44,54
BSF 7/16-18h.	11,113	9,50	D	100 x 22 x 8,0 x 6,2		60,03
BSF 1/2-16h.	12,700	11,00	D	110 x 24 x 9,0 x 7,0		67,94
BSF 9/16-16h.	14,287	12,50	D	110 x 25 x 11,0 x 9,0		71,90
BSF 5/8-14h.	15,876	14,00	D	110 x 27 x 12,0 x 9,0		95,83
BSF 3/4-12h.	19,051	16,50	D	125 x 30 x 14,0 x 11,0		113,44
BSF 7/8-11h.	22,226	19,50	D	140 x 32 x 18,0 x 14,5		157,66
BSF 1"-10h.	25,400	22,50	D	160 x 36 x 18,0 x 14,5		183,27

* Vc: Cutting Speed (m/min)

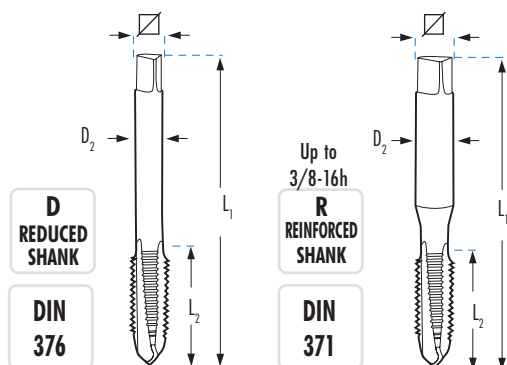
HSSCo MACHINE TAPS



HSSCo
5%

TOL 2
Class

Vc
12 m/min

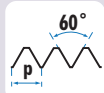
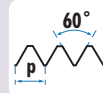
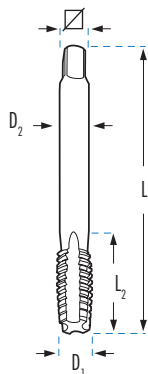
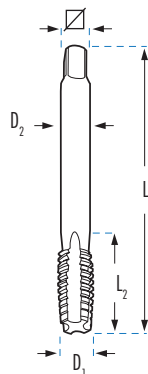




Icon	D1 mm	Ø	L1 x L2 x D2 x mm	M1R	M2R	M3R	M4R
				C FORM	B FORM	15°	35°
				€	€	€	€
W 3/32-48h.	2,38	1,80	R 50 x 9 x 2,8 x 2,1	24,77	26,44		
W 1/8-40h.	3,17	2,55	R 56 x 11 x 3,5 x 2,7	20,66 *	22,84	26,96	25,95
W 5/32-32h.	3,97	3,10	R 63 x 13 x 4,5 x 3,4	20,66	22,84	26,96	25,95
W 3/16-24h.	4,76	3,60	R 70 x 15 x 6,0 x 4,9	22,93	22,84	26,96	25,95
W 7/32-24h.	5,56	4,40	R 80 x 16 x 6,0 x 4,9	31,37	33,17		
W 1/4-20h.	6,35	5,10	R 80 x 17 x 7,0 x 5,5	22,07	25,95	30,61	31,71
W 5/16-18h.	7,94	6,50	R 90 x 20 x 8,0 x 6,2	24,75	32,72	35,72	35,66
W 3/8-16h.	9,52	7,90	R 100 x 22 x 10,0 x 8,0	27,70	36,16	39,70	39,64



REDUCED SHANK STANDARD PITCH				M1D	M2D	M3D	M4D
W 7/16-14h.	11,11	9,25	D 100 x 22 x 8,0 x 6,2	38,52	39,83	50,04	50,40
W 1/2-12h.	12,70	10,50	D 110 x 24 x 9,0 x 7,0	36,94	41,53	47,94	48,29
W 9/16-12h.	14,29	12,00	D 110 x 26 x 11,0 x 9,0	52,95	54,99	68,76	69,25
W 5/8-11h.	15,87	13,40	D 110 x 27 x 12,0 x 9,0	50,14	51,95	65,03	65,48
W 3/4-10h.	19,05	16,50	D 125 x 30 x 14,0 x 11,0	70,17	72,84	87,12	87,74
W 7/8-9h.	22,22	19,25	D 140 x 32 x 18,0 x 14,5	90,89	94,25	117,93	113,56
W 1"-8h.	25,40	21,75	D 160 x 36 x 18,0 x 14,5	114,23	118,46	147,99	149,04
W 1.1/8-7h.	28,57	24,75	D 180 x 40 x 22,0 x 18,0	154,92	176,52	212,25	
W 1.1/4-7h.	31,75	27,75	D 180 x 40 x 22,0 x 18,0	225,05	256,48		
W 1.3/8-6h.	34,92	30,50	D 200 x 50 x 28,0 x 22,0	369,90	421,19		
W 1.1/2-6h.	38,10	33,50	D 200 x 50 x 32,0 x 24,0	401,50	457,58		
W 1.5/8-5h.	41,27	46,50	D 220 x 65 x 32,0 x 24,0	560,42	638,72		
W 1.3/4-5h.	44,45	39,00	D 220 x 58 x 36,0 x 29,0	600,27	689,06		
W 1.7/8-4,5h.	47,62	42,00	D 250 x 75 x 36,0 x 29,0	696,03	763,89		
W 2"-4,5h.	50,80	44,50	D 250 x 65 x 40,0 x 32,0	859,12			

* Also available in left-hand cutting: twice the standard price

* Vc: Cutting Speed (m/min)

HSSCo MACHINE TAPS
UNJC

HSSCo
5%
TOL
3B
UNJF

HSSCo
5%
TOL
3B
Vc
12 m/min

Vc
12 m/min


	D1 mm		L1 x L2 x D2 x ∇ mm	M1R
				C FORM
				€
UNJC n° 4-40h	2,84	2,25	R 56 x 11 x 3,5 x 2,7	40,89
UNJC n° 5-40h	3,17	2,60	R 56 x 11 x 3,5 x 2,7	40,89
UNJC n° 6-32h	3,50	2,75	R 56 x 12 x 4,0 x 3,0	40,89
UNJC n° 8-32h	4,17	3,50	R 63 x 13 x 4,5 x 3,4	40,89
UNJC n°10-24h	4,83	3,90	R 70 x 15 x 6,0 x 4,9	40,89
UNJC n°12-24h	5,49	4,50	R 80 x 16 x 6,0 x 4,9	42,89
UNJC 1/4-20h	6,35	5,10	R 80 x 17 x 7,0 x 5,5	38,16
UNJC 5/16-18h	7,94	6,60	R 90 x 20 x 8,0 x 6,2	43,18
UNJC 3/8-16h	9,52	8,00	R 100 x 22 x 8,0 x 6,2	49,22

	D1 mm		L1 x L2 x D2 x ∇ mm	M1R
				C FORM
				€
UNJF n° 4-48h	2,84	2,35	R 56 x 11 x 3,5 x 2,7	44,86
UNJF n° 5-44h	3,17	2,70	R 56 x 11 x 3,5 x 2,7	44,86
UNJF n° 6-40h	3,50	2,95	R 56 x 12 x 4,0 x 3,0	44,86
UNJF n° 8-36h	4,17	3,50	R 63 x 13 x 4,5 x 3,4	44,86
UNJF n°10-32h	4,83	4,10	R 70 x 15 x 6,0 x 4,9	44,86
UNJF n°12-28h	5,49	4,60	R 80 x 16 x 6,0 x 4,9	44,86
UNJF 1/4-28h	6,35	5,50	R 80 x 17 x 7,0 x 5,5	34,83
UNJF 5/16-24h	7,94	6,90	R 90 x 20 x 8,0 x 6,2	38,94
UNJF 3/8-24h	9,52	8,50	R 90 x 16 x 7,0 x 6,2	42,64

REDUCED SHANK STANDARD PITCH			M1D	
UNJC 7/16-14h	11,11	9,40	D 110 x 24 x 9,0 x 7,0	67,88
UNJC 1/2-13h	12,70	10,75	D 110 x 26 x 11,0 x 9,0	73,68
UNJC 9/16-12h	14,28	12,20	D 110 x 27 x 12,0 x 9,0	101,27
UNJC 5/8-11h	15,87	13,50	D 110 x 27 x 12,0 x 9,0	103,81
UNJC 3/4-10h	19,05	16,50	D 125 x 30 x 14,0 x 11,0	130,25
UNJC 7/8-9h	22,22	19,50	D 140 x 32 x 18,0 x 14,5	171,39
UNJC 1"-8h	25,40	22,25	D 160 x 36 x 18,0 x 14,5	226,44

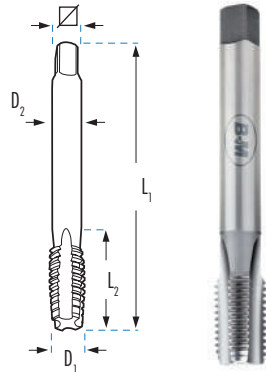
REDUCED SHANK STANDARD PITCH			M1D	
UNJF 7/16-20h	11,11	9,90	D 100 x 22 x 8,0 x 6,2	58,56
UNJF 1/2-20h	12,70	11,50	D 100 x 22 x 9,0 x 7,0	62,36
UNJF 9/16-18h	14,29	12,90	D 100 x 22 x 11,0 x 9,0	76,62
UNJF 5/8-18h	15,87	14,50	D 100 x 22 x 12,0 x 9,0	86,26
UNJF 3/4-16h	19,05	17,50	D 110 x 25 x 14,0 x 11,0	110,36
UNJF 7/8-14h	22,22	20,40	D 125 x 25 x 18,0 x 14,5	138,77
UNJF 1"-12h	25,40	23,25	D 140 x 28 x 18,0 x 14,5	154,72


* Vc: Cutting Speed (m/min)

HSSCo MACHINE TAPS

BSPP  **HSSCo 5%** **DIN 374** **C FORM**

BRITISH STANDARD PIPE




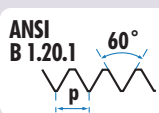
	D1 mm	L1 x L2 x D2 x ∇ mm	M1D	€
Rp 1/16-28h.	7,72	D 90 x 16 x 6 x 4,9		
Rp 1/8-28h.	9,73	D 90 x 16 x 7 x 5,5		53,18
Rp 1/4-19h.	13,16	D 100 x 22 x 11 x 9,0		73,46
Rp 3/8-19h.	16,66	D 100 x 22 x 12 x 9,0		87,96
Rp 1/2-14h.	20,95	D 125 x 25 x 16 x 12,0		111,16
Rp 3/4-14h.	26,44	D 140 x 28 x 20 x 16,0		174,07
Rp 1"-11h.	33,25	D 160 x 30 x 25 x 20,0		270,08
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  **HSSCo 5%** **DIN 5156** **C FORM**

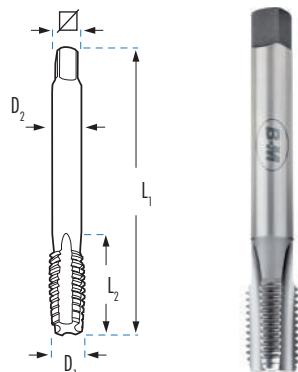
BRITISH STANDARD TAPER PIPE




	D1 mm	θ	L1 x L2 x D2 x ∇ mm	M1D	€
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		54,41
Rc 1/4-19h.	13,16	11,00	D 100 x 19 x 11 x 9		78,26
Rc 3/8-19h.	16,66	14,50	D 100 x 21 x 12 x 9		108,76
Rc 1/2-14h.	20,95	18,10	D 125 x 26 x 16 x 12		151,12
Rc 5/8-14h.	22,91	21,00	D 140 x 36 x 18 x 19		243,77
Rc 3/4-14h.	26,44	23,50	D 140 x 28 x 20 x 16		235,69
Rc 7/8-14h.	30,20	28,25	D 160 x 36 x 22 x 18		410,13
Rc 1"-11h.	33,25	29,60	D 160 x 33 x 25 x 20		337,80

NPS (M)  **HSSCo 5%** **DIN 374** **C FORM**

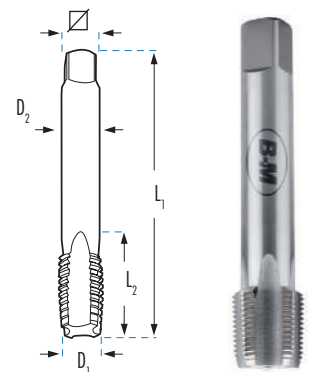
NATIONAL STRAIGHT PIPE MECHANICAL




	D1 mm	θ	L1 x L2 x D2 x ∇ mm	M1D	€
NPS 1/8-27h.	10,20	8,90	D 90 x 16 x 7 x 5,5		136,98
NPS 1/4-18h.	13,60	11,70	D 100 x 22 x 11 x 9,0		196,06
NPS 3/8-18h.	17,00	15,00	D 100 x 22 x 12 x 9,0		268,85
NPS 1/2-14h.	21,20	18,60	D 125 x 25 x 16 x 12,0		368,67
NPS 3/4-14h.	26,55	24,00	D 140 x 28 x 20 x 16,0		545,00
NPS 1"-11,5 h.	33,20	30,00	D 160 x 30 x 25 x 20,0		704,79
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		

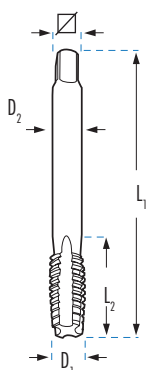
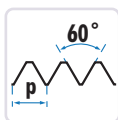
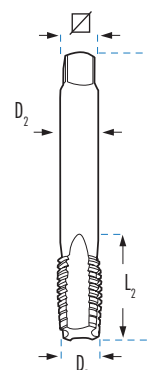
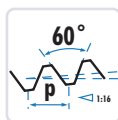
NPT  **HSSCo 5%** **DIN 374** **C FORM**

NATIONAL TAPER PIPE



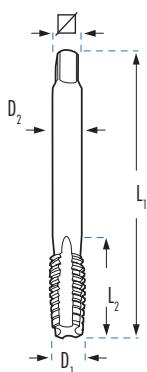
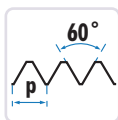
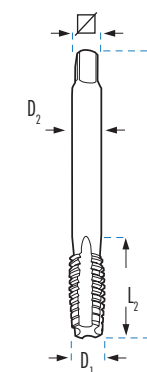
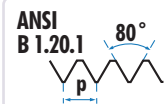
	D1 mm	θ	L1 x L2 x D2 x ∇ mm	M1D	€
NPT 1/16-27h.	7,89	6,2	D 90 x 14 x 6 x 5		47,66
NPT 1/8-27h.	10,24	8,5	D 90 x 15 x 8 x 6		49,84
NPT 1/4-18h.	13,62	11,0	D 100 x 19 x 11 x 9		64,37
NPT 3/8-18h.	17,05	14,5	D 100 x 21 x 12 x 9		82,74
NPT 1/2-14h.	21,22	17,8	D 125 x 26 x 16 x 12		107,64
NPT 3/4-14h.	26,57	23,0	D 140 x 28 x 20 x 16		166,77
NPT 1"-11,5h.	33,23	29,0	D 160 x 33 x 25 x 20		216,76
NPT 1.1/4-11,5h.	41,98	37,5	D 170 x 36 x 32 x 24		295,95
NPT 1.1/2-11,5h.	48,05	44,0	D 190 x 37 x 36 x 29		466,01
NPT 2"-11,5h.	60,09	56,0	D 220 x 41 x 45 x 35		730,99

HSSCo MACHINE TAPS

NPSF**HSSCo**
5%**DIN**
374**C**
FORMNATIONAL STRAIGHT
PIPE DRYSEAL**NPTF****HSSCo**
5%**DIN**
374**C**
FORMNATIONAL TAPER
PIPE DRYSEAL

	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	171,59
NPSF 1/4-18h.	13,33	11,30	D 100 x 22 x 11 x 9,0	236,51
NPSF 3/8-18h.	16,78	14,70	D 100 x 22 x 12 x 9,0	336,46
NPSF 1/2-14h.	20,87	18,20	D 125 x 25 x 16 x 12,0	419,58
NPSF 3/4-14h.	26,23	23,50	D 140 x 28 x 20 x 16,0	686,70
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	115,93
NPTF 1/4-18h.	13,58	11,00	D 100 x 21 x 17,5 x 11	162,65
NPTF 3/8-18h.	17,02	14,50	D 110 x 21 x 17,6 x 12	208,94
NPTF 1/2-14h.	21,21	17,80	D 140 x 27 x 22,8 x 16	272,00
NPTF 3/4-14h.	26,56	23,00	D 140 x 27 x 23,0 x 20	421,39

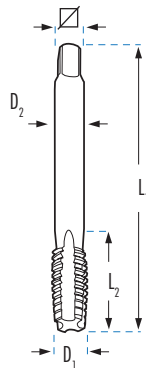
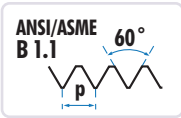
MF**HSSCo**
5%**TOL**
6H**C**
FORM**DIN**
374METRIC FINE FOR ELECTRICIAN PIPE
NORM EN 60423**PG****HSSCo**
5%**DIN**
40430**C**
FORMARMOUR PIPE
STEEL CONDUIT

	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	29,25
MF 16 x 1,50	16	14,5	D 100 x 22 x 12 x 9,0	41,19
MF 20 x 1,50	20	18,5	D 125 x 25 x 16 x 12,0	61,77
MF 25 x 1,50	25	23,5	D 140 x 28 x 18 x 14,5	142,28
MF 32 x 1,50	32	30,5	D 150 x 28 x 22 x 18,0	177,58
MF 40 x 1,50	40	38,5	D 170 x 30 x 32 x 24,0	299,09
MF 50 x 1,50	50	48,5	D 190 x 32 x 36 x 29,0	465,66
MF 63 x 1,50	63	61,5	D 275 x 36 x 50 x 39,0	

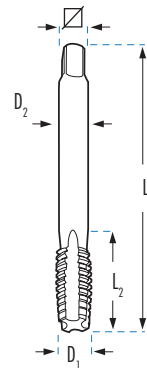
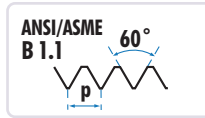
	D1 mm		L1 x L2 x D2 x ∇ mm	M1D €
PG 7 - 20h.	12,5	11,50	D 100 x 22 x 9 x 7,0	50,87
PG 9 - 18h.	15,2	14,00	D 100 x 22 x 12 x 9,0	70,46
PG 11 - 18h.	18,6	17,25	D 110 x 25 x 14 x 11,0	91,67
PG 13,5 - 18h.	20,4	19,00	D 125 x 25 x 16 x 12,0	102,94
PG 16 - 18h.	22,5	21,25	D 125 x 25 x 18 x 14,5	121,15
PG 21 - 16h.	28,3	27,00	D 150 x 28 x 22 x 18,0	192,33
PG 29 - 16h.	37,0	35,50	D 170 x 30 x 28 x 22,0	325,13
PG 36 - 16h.	47,0	45,50	D 190 x 32 x 36 x 29,0	528,03
PG 42 - 16h.	54,0	52,50	D 190 x 32 x 40 x 32,0	838,60
PG 48 - 16h.	59,3	58,00	D 220 x 36 x 45 x 35,0	1.022,32

HSSCo MACHINE TAPS

UNx8 HSSCo 5% DIN 374 C FORM TOL 2B



UNEF HSSCo 5% DIN 374 TOL 2B

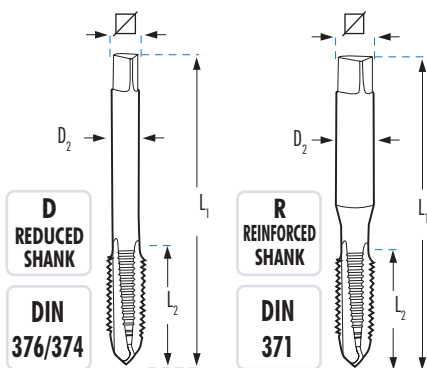
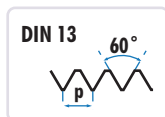


				M1D
		D2 mm	L1 x L2 x ∇ mm	C FORM €
		\emptyset		
UN 1" 1/8-8h.	25,40	22	180 x 45 x 18	252,89
UN 1" 1/4-8h.	28,50	22	180 x 48 x 18	326,28
UN 1" 3/8-8h.	31,75	28	200 x 56 x 22	370,11
UN 1" 1/2-8h.	35,00	32	200 x 58 x 22	470,91
UN 1" 5/8-8h.	38,10	32	200 x 65 x 24	550,85
UN 1" 3/4-8h.	41,25	36	200 x 50 x 29	671,02
UN 1" 7/8-8h.	44,45	36	225 x 53 x 29	774,04
UN 2"-8h.	47,63	40	225 x 50 x 32	790,89

				M2D	M4D
		D2 mm	L1 x L2 x ∇ mm	B FORM €	35° €
		\emptyset			
UNEF 1/4-32h.	5,55	7,0	R 82 x 16 x 5,4	104,64	117,60
UNEF 5/16-32h.	7,15	8,4	R 85 x 21 x 6,1	115,30	129,55
UNEF 3/8-32h.	8,70	7,0	D 95 x 22 x 5,4	115,36	129,62
UNEF 7/16-28h.	10,20	8,0	D 100 x 22 x 6,2	153,12	172,04
UNEF 1/2-28h.	11,80	9,0	D 100 x 22 x 7,0	161,28	181,22
UNEF 9/16-24h.	13,20	12,0	D 100 x 24 x 9,0	202,06	227,04
UNEF 5/8-24h.	14,80	12,0	D 100 x 24 x 9,0	229,94	258,36
UNEF 3/4-20h.	17,80	14,0	D 110 x 27 x 11,0	299,05	336,04
UNEF 7/8-20h.	20,95	18,0	D 125 x 26 x 14,5	321,46	344,42
UNEF 1"-20h.	24,20	18,0	D 140 x 28 x 14,5	491,94	552,74

HSSCo MACHINE TAPS LEFT-HAND

MMF HSSCo 5% C FORM TOL 6H



D
REDUCED SHANK
DIN 376/374

R
REINFORCED SHANK
DIN 371

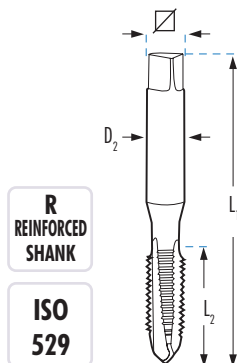
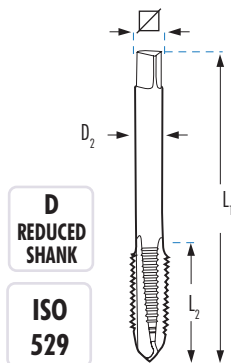
				M1R1
			L1 x L2 x D2 x ∇ mm	C FORM €
		\emptyset		
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	23,79
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	27,07
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	24,23
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	27,57
M 7x1,00	6,00	R	80 x 17 x 7,0 x 5,5	35,76
M 8x1,25	6,80	R	90 x 20 x 8,0 x 6,2	31,16
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	35,32

				M1D1
			L1 x L2 x D2 x ∇ mm	C FORM €
		\emptyset		
M 12x1,50	10,50	D	100 x 22 x 9,0 x 7,0	58,51
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	42,17
M 14x1,50	12,50	D	100 x 22 x 11,0 x 9,0	69,68
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0	69,22
M 16x1,50	14,50	D	100 x 22 x 12,0 x 9,0	82,38
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0	81,46
M 18x1,50	16,50	D	110 x 25 x 14,0 x 11,0	109,07
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0	117,20
M 20x1,50	18,50	D	125 x 25 x 16,0 x 12,0	123,54
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0	124,76
M 22x2,50	19,50	D	140 x 32 x 18,0 x 14,5	150,97
M 24x2,00	22,00	D	140 x 28 x 18,0 x 14,5	233,33
M 24x3,00	21,00	D	160 x 34 x 18,0 x 14,5	180,73
M 27x3,00	24,00	D	160 x 36 x 20,0 x 16,0	225,60
M 30x2,00	28,00	D	150 x 28 x 22,0 x 18,0	347,42
M 30x3,50	26,50	D	180 x 40 x 22,0 x 18,0	289,11
M 33x3,50	29,50	D	180 x 40 x 25,0 x 20,0	347,42
M 36x4,00	32,00	D	200 x 50 x 28,0 x 22,0	455,97

Check other dimensions upon request

* Vc: Cutting Speed (m/min)

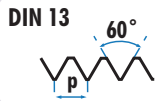
HSSCo MACHINE TAPS ISO 529

M
MFHSSCo
5%ISO
529TOL
6H

			L1 x L2 x D2 x \square mm	M1RISO	M2RISO	M4RISO	M5RISO
				C FORM	B FORM	35°	INTERRUPTED THREAD AI
				€	€	€	€
M 3x0,50	2,50	R	48 x 11 x 3,15 x 2,50	8,58	8,95	10,77	12,81
M 4x0,70	3,30	R	53 x 13 x 4,00 x 3,15	8,58	8,95	10,77	12,81
M 5x0,80	4,20	R	58 x 16 x 5,00 x 4,00	8,58	8,95	10,77	12,81
M 6x1,00	5,00	R	66 x 19 x 6,30 x 5,00	8,58	8,95	11,00	12,81
M 7x1,00	6,00	R	66 x 19 x 7,10 x 5,60		12,73	14,61	
M 8x1,00	7,00	R	69 x 19 x 8,00 x 6,30		17,56	18,02	
M 8x1,25	6,75	R	72 x 22 x 8,00 x 6,30	11,47	11,94	12,35	14,00
M 9x1,25	7,75	R	76 x 20 x 10,00 x 8,00		18,99	21,69	
M 10x1,00	9,00	R	76 x 20 x 10,00 x 8,00		20,14	22,00	
M 10x1,25	8,80	R	76 x 20 x 10,00 x 8,00		24,08	24,85	
M 10x1,50	8,50	R	80 x 24 x 10,00 x 8,00	14,58	15,19	15,92	17,66
REDUCED SHANK				M1DISO	M2DISO	M4DISO	M5DISO
M 12x1,00	11,00	D	84 x 24 x 9,00 x 7,10		27,74	28,42	
M 12x1,25	10,75	D	84 x 24 x 9,00 x 7,10		27,25	28,21	
M 12x1,50	10,50	D	89 x 29 x 9,00 x 7,10		24,31	26,18	
M 12x1,75	10,20	D	89 x 29 x 9,00 x 7,10	18,74	19,52	20,67	26,42
M 14x1,00	13,00	D	90 x 25 x 11,20 x 9,00		34,74	43,22	
M 14x1,25	12,80	D	90 x 25 x 11,20 x 9,00		29,34	36,74	
M 14x1,50	12,50	D	95 x 30 x 12,50 x 9,00		25,78	28,97	
M 14x2,00	12,00	D	95 x 30 x 11,20 x 9,00	22,41	23,34	28,26	
M 16x1,00	15,00	D	95 x 25 x 12,50 x 10,00		44,21	56,89	
M 16x1,25	14,75	D	102 x 32 x 12,50 x 10,00		49,01	63,08	
M 16x1,50	14,50	D	102 x 32 x 14,00 x 10,00		30,94	34,67	
M 16x2,00	14,00	D	102 x 32 x 12,50 x 10,00	27,83	28,98	32,78	
M 18x1,50	16,50	D	104 x 29 x 14,00 x 11,20		40,88	55,86	
M 18x2,50	15,50	D	112 x 37 x 14,00 x 11,20	41,90	43,64	54,56	
M 20x1,50	18,50	D	104 x 29 x 14,00 x 11,20		52,61	64,34	
M 20x2,50	17,50	D	112 x 37 x 14,00 x 11,20	46,83	48,78	60,97	
M 22x2,50	19,50	D	118 x 38 x 16,00 x 12,50	54,15	56,41	70,51	
M 24x3,00	21,00	D	130 x 45 x 18,00 x 14,00	61,17	63,72	79,64	
M 27x3,00	24,00	D	135 x 45 x 20,00 x 16,00	75,33	78,47	98,09	
M 30x3,50	26,50	D	138 x 48 x 20,00 x 16,00	111,92	116,59	145,73	

MACHINE TAPS DIN 352

M
MF

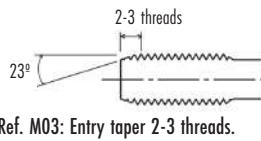


HSS

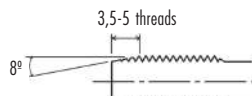
HSSCo
5%

DIN
352

TOL
6H



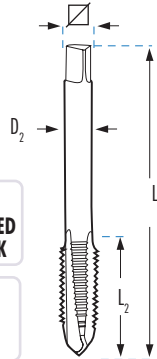
Ref. M03: Entry taper 2-3 threads.





Ref. M02AT: Entry taper 3,5-5 threads.

D
REDUCED
SHANK

DIN
352



		$L_1 \times L_2 \times D_2 \times \square$ mm	M03	M02AT	M03X	M02DIN	M04DIN
			HSS	COMPLETE PROFILE HSS	INOX HSSCo	B FORM HSS	 35° HSS
			€	€	€	€	€
M 3x0,50	2,50	D 40 x 11 x 3,50 x 2,70	7,58	10,43	13,53	9,84	11,85
M 4x0,70	3,30	D 45 x 13 x 4,50 x 3,40	7,57	10,42	13,53	9,84	11,85
M 5x0,80	4,20	D 50 x 16 x 6,00 x 4,90	8,10	11,15	14,09	9,84	11,85
M 6x1,00	5,00	D 50 x 19 x 6,00 x 4,90	8,10	11,15	14,04	9,84	12,11
M 7x1,00	6,00	D 50 x 19 x 6,00 x 4,90	9,86				
M 8x1,00	7,00	D 56 x 18 x 6,00 x 4,90	13,65				
M 8x1,25	6,75	D 56 x 22 x 6,00 x 4,90	9,85	13,57	16,34	13,14	14,68
M 9x1,25	7,75	D 63 x 18 x 7,00 x 5,50	16,14				
M 10x1,00	9,00	D 63 x 18 x 7,00 x 5,50	14,62				
M 10x1,25	8,80	D 70 x 24 x 7,00 x 5,50	14,82				
M 10x1,50	8,50	D 70 x 24 x 7,00 x 5,50	12,15	16,72	21,03	16,71	18,50
M 12x1,00	11,00	D 70 x 20 x 9,00 x 7,00	25,91				
M 12x1,25	10,75	D 70 x 20 x 9,00 x 7,00	25,84				
M 12x1,50	10,50	D 70 x 20 x 9,00 x 7,00	22,02				
M 12x1,75	10,20	D 75 x 29 x 9,00 x 7,00	17,09	23,54	30,11	21,48	24,09
M 14x1,00	13,00	D 70 x 20 x 11,00 x 9,00	40,39				
M 14x1,25	12,80	D 70 x 20 x 11,00 x 9,00	31,55				
M 14x1,50	12,50	D 70 x 20 x 11,00 x 9,00	24,53				
M 14x2,00	12,00	D 80 x 30 x 11,00 x 9,00	18,91	26,03	33,34	25,67	31,09
M 16x1,00	15,00	D 70 x 20 x 12,00 x 9,00	53,58				
M 16x1,25	14,75	D 70 x 20 x 12,00 x 9,00	56,40				
M 16x1,50	14,50	D 70 x 20 x 12,00 x 9,00	30,53				
M 16x2,00	14,00	D 80 x 32 x 12,00 x 9,00	27,06		45,70	31,89	36,05
M 18x1,50	16,50	D 80 x 22 x 14,00 x 11,00	40,22				
M 18x2,50	15,50	D 95 x 40 x 14,00 x 11,00	35,71		62,41	48,01	60,02
M 20x1,50	18,50	D 80 x 22 x 16,00 x 12,00	50,37				
M 20x2,50	17,50	D 95 x 40 x 16,00 x 12,00	40,06		69,27	53,66	67,07
M 22x2,50	19,50	D 100 x 40 x 18,00 x 14,50	53,36			62,03	77,56
M 24x3,00	21,00	D 110 x 50 x 18,00 x 14,50	63,65			70,10	87,61
M 27x3,00	24,00	D 110 x 50 x 20,00 x 16,00	80,48			90,48	99,32
M 30x3,50	26,50	D 125 x 50 x 22,00 x 18,00	103,55			123,93	127,28

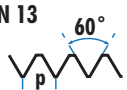
MACHINE TAPS AND DIES *Plus & Super Plus*

Threading tools

Pink

Plus

DIN 13



60°

TOL
6H

FOR HIGH PRODUCTION WORKS
HSS PM: POWDER STEEL

DIN
22568

TOL
6g



Plus

Plus TiN

Plus LUBE

Super Plus AlTiN

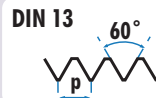
QUALITY	M2RP		M4RP		M2RT		M4RT		M2RHL		M4RHL		M2RSP		M4RSP		C5P	
	★ ★	★ ★	★ ★ ★	★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★	★ ★ ★ ★		
MATERIAL	HSS PM		HSS PM		HSSCo 5%		HSSCo 5%		HSS PM		HSS PM		HSS V3		HSS V3		HSS	
COATING	BRIGHT		BRIGHT		TiN		TiN		HARD LUBE		HARD LUBE		ALTiN		ALTiN		BRIGHT	
HELIX ANGLE	B FORM		35°		B FORM		35°		B FORM		35°		B FORM		41°			
	Ø	L1 x L2 x D2 x L	mm	€	€	€	€	€	€	€	€	€	€	€	€	€	Ø x L3 mm	€
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	17,59	21,74	23,68	26,17	31,71	34,32	42,61	44,59	25 x 9	32,36					
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	17,97	21,74	24,06	27,29	32,19	34,80	42,61	44,59	25 x 9	32,36					
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	17,97	20,83	24,06	27,29	32,19	34,80	45,00	46,25	25 x 9	32,36					
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	19,76	22,88	27,70	30,00	35,34	36,84	45,00	46,25	25 x 9	32,36					
M 8x1,00	7,00	D	90 x 20 x 6,0 x 4,9	28,20	33,46	39,71	44,19	53,61	59,67			25 x 9	45,13					
M 8x1,25	6,80	R	90 x 20 x 8,0 x 6,2	23,13	26,58	32,38	35,22	44,94	46,88	57,13	60,88	25 x 9	35,10					
M 10x1,00	9,00	D	90 x 16 x 7,0 x 5,5	31,44	39,42	46,39	53,26	62,60	73,96			30 x 10	55,16					
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	27,22	30,94	38,14	41,76	55,73	58,34	68,08	72,63	30 x 10	48,27					
REDUCED SHANK																		
M 12x1,50	10,50	D	100 x 22 x 9,0 x 7,0	37,30	45,09	50,24	56,56	67,52	77,44			38 x 10	57,34					
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	35,08	41,66	47,02	53,01	58,83	70,61	85,66	92,93	38 x 14	50,63					
M 14x1,50	12,50	D	100 x 22 x 11,0 x 9,0	44,19	55,42	59,08	65,26	79,41	91,07			38 x 10	59,94					
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0	43,86	50,84	58,02	63,79	80,25	88,21	87,45	117,75	38 x 14	51,61					
M 16x1,50	14,50	D	100 x 22 x 12,0 x 9,0	55,28	68,16	71,01	81,19	78,41	91,53			45 x 14	82,34					
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0	51,58	61,45	66,24	73,23	91,62	101,26	119,37	126,99	45 x 18	69,33					
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0	73,11	82,59	90,46	98,69	129,43	137,52	177,19	191,70	45 x 18	69,33					
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0	78,99	88,04	103,10	111,07	135,99	154,83	188,84	199,61	45 x 18	69,33					
M 22x2,50	19,50	D	140 x 32 x 18,0 x 14,5	95,56	108,64	116,52	124,72	159,50	174,05			55 x 22	103,06					
M 24x3,00	21,00	D	160 x 34 x 18,0 x 14,5	113,62	130,06	131,29	142,66	179,72	199,07			55 x 22	103,06					

* Vc: Cutting Speed (m/min)

POWDER STEEL MACHINE TAPS FOR STAINLESS STEEL

INOX

M

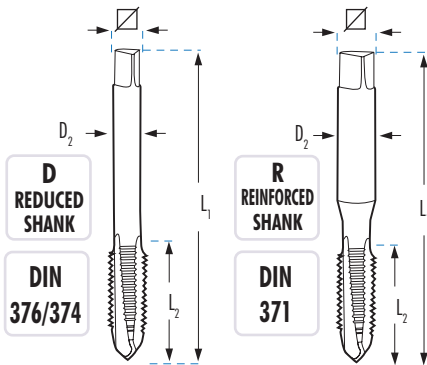


**TOL
6H**

**Vc
6 m/min**

**Vc
10 m/min**

**Vc
12 m/min**



				M2RX	M4RX	M2RXT	M4RXT	M2RXHL	M4RXHL
QUALITY				★★	★★	★★★	★★★	★★★★	★★★★
MATERIAL				HSS PM	HSS PM	HSSCo 5%	HSSCo 5%	HSS PM	HSS PM
COATING				OX	OX	TIN	TIN	HARD LUBE	HARD LUBE
HELIX ANGLE				B FORM	35°	B FORM	35°	B FORM	35°
			L ₁ x L ₂ x D ₂ x	€	€	€	€	€	€
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	21,02	24,98	24,28	27,47	32,11	37,76
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	22,07	24,98	25,46	27,92	33,73	38,75
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	22,07	25,17	25,46	28,34	33,73	39,33
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	24,18	27,22	26,96	29,63	36,93	41,15
M 8x1,00	7,00	D	90 x 20 x 6,0 x 4,9	39,04	42,78				
M 8x1,25	6,80	R	90 x 20 x 8,0 x 6,2	26,97	31,01	31,16	34,14	41,23	47,39
M 10x1,00	9,00	D	90 x 16 x 7,0 x 5,5	40,24	42,96				
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	32,99	36,79	36,44	40,26	50,38	56,20
REDUCED SHANK				M2DX	M4DX	M2DXT	M4DXT	M2DXHL	M4DXHL
M 12x1,00	11,00	D	100 x 22 x 9,0 x 7,0	45,63	52,35				
M 12x1,50	10,50	D	100 x 22 x 9,0 x 7,0	46,32	54,77				
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	42,39	49,63	46,61	52,47	66,34	77,66
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0	60,34	69,12	60,72	65,64	88,15	97,61
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0	67,20	79,77	68,92	75,53	98,14	118,06
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0	100,63	113,51	103,90	107,81	157,49	167,97
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0	108,75	119,87	118,63	121,80	167,43	177,36
M 22x2,50	19,50	D	140 x 32 x 18,0 x 14,5	130,49	137,88	147,26	159,44		
M 24x3,00	21,00	D	160 x 34 x 18,0 x 14,5	137,19	157,47	150,13	163,09		
M 27x3,00	24,00	D	160 x 36 x 20,0 x 16,0	179,71	206,27				
M 30x3,50	26,50	D	180 x 40 x 22,0 x 18,0	229,81	263,78				

* Vc: Cutting Speed (m/min)



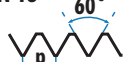
- **CUT MAGIC XTHICK** Coolant
- We recommend using **CUT MAGIC XTHICK** to optimize the threading in stainless steel, inconel, titanium, etc.

Ref. ACXT00250

Super Plus TAPS FOR THREADING REFRACTORY ALLOYS

M

DIN 13

TOL
6HINOX
DUPLEX

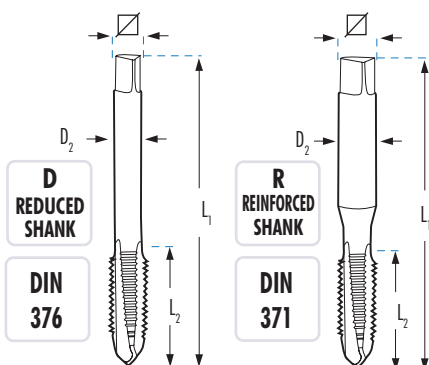
Ni

INC

Ti

SPECIALLY RECOMMENDED
FOR AERONAUTICAL APPLICATIONSVc
15
m/minINOX
DUPLEXVc
6
m/minNICKEL
INCONELVc
6
m/min

TITANIUM



		M2RDU	M4RDU	M2RNI	M3RNI	M2RTIT	M3RTIT	
QUALITY		★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	
MATERIAL		HSS V3	HSS V3	HSS PM	HSS PM	HSS PM	HSS PM	
COATING		TiCN	TiCN	BRIGHT	BRIGHT	OX	OX	
HELIX ANGLE		B FORM	41°	B FORM	15°	B FORM	15°	
		L1 x L2 x D2 x ∇ mm	€	€	€	€	€	
M 3x0,50	2,50	R 56 x 11 x 3,5 x 2,7	43,21	44,26	80,27	82,03	59,60	65,78
M 4x0,70	3,30	R 63 x 13 x 4,5 x 3,4	43,21	44,53	82,03	84,25	61,46	65,78
M 5x0,80	4,20	R 70 x 16 x 6,0 x 4,9	44,66	45,53	84,92	86,93	63,01	70,07
M 6x1,00	5,00	R 80 x 17 x 6,0 x 4,9	45,89	46,86	85,59	88,01	63,01	71,04
M 8x1,25	6,80	R 90 x 20 x 8,0 x 6,2	64,09	66,82	96,73	99,30	72,81	82,03
M 10x1,50	8,50	R 100 x 22 x 10,0 x 8,0	83,07	85,23	114,92	118,44	90,17	98,85
REDUCED SHANK			M2DDU	M4DDU	M2DNI	M3DNI	M2DTIT	M3DTIT
M 12x1,75	10,20	D 110 x 24 x 9,0 x 7,0	112,30	121,26	147,82	163,44	113,17	122,81
M 14x2,00	12,00	D 110 x 26 x 11,0 x 9,0						
M 16x2,00	14,00	D 110 x 27 x 12,0 x 9,0	165,14	176,59				
M 18x2,50	15,50	D 125 x 30 x 14,0 x 11,0						
M 20x2,50	17,50	D 140 x 32 x 16,0 x 12,0	244,53	264,13				
M 22x2,50	19,50	D 140 x 32 x 18,0 x 14,5						
M 24x3,00	21,00	D 160 x 34 x 18,0 x 14,5	331,21	336,89				
M 27x3,00	24,00	D 160 x 36 x 20,0 x 16,0	425,51	446,03				
M 30x3,50	26,50	D 180 x 40 x 22,0 x 18,0	502,54	525,85				

* Vc: Cutting Speed (m/min)

MACHINE TAPS FOR SUPER SOFT CONSTRUCTION STEEL <450 N/mm²



HSSCo
5%

OX

TOL
6H

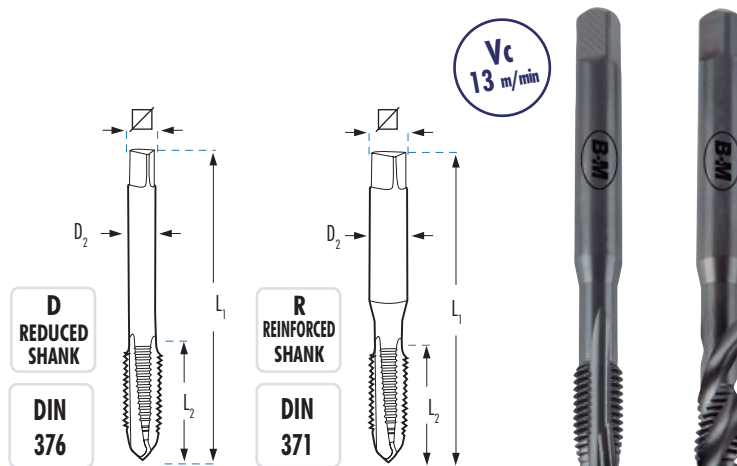
APPLICATIONS

450
N/mm²

ST52

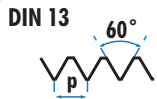
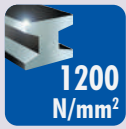
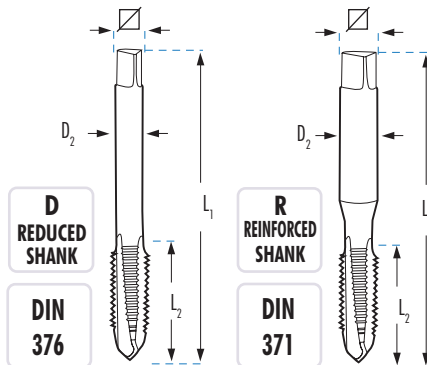
Al

Specific cutting geometry for soft materials without oversize. The tap fits perfectly with this type of materials while the conventional taps can generate oversize when tapping.



	D	L1	L2	D2	R	M2RSS		M4RSS	
						B FORM	€	35°	€
M 3 x 0,50	2,50				R	56 x 11 x 3,5 x 2,7	14,97		20,00
M 4 x 0,70	3,30				R	63 x 13 x 4,5 x 3,4	15,67		20,01
M 5 x 0,80	4,20				R	70 x 16 x 6,0 x 4,9	15,69		19,19
M 6 x 1,00	5,00				R	80 x 17 x 6,0 x 4,9	17,21		21,04
M 8 x 1,25	6,80				R	90 x 20 x 8,0 x 6,2	19,31		23,80
M 10 x 1,50	8,50				R	100 x 22 x 10,0 x 8,0	23,78		28,19
REDUCED SHANK							M2DSS	M4DSS	
M 12 x 1,75	10,20	D				110 x 24 x 9,0 x 7,0	29,99		36,31
M 14 x 2,00	12,00	D				110 x 26 x 11,0 x 9,0	44,28		52,29
M 16 x 2,00	14,00	D				110 x 27 x 12,0 x 9,0	51,79		63,17
M 18 x 2,50	15,50	D				125 x 30 x 14,0 x 11,0	73,77		81,89
M 20 x 2,50	17,50	D				140 x 32 x 16,0 x 12,0	79,63		90,78
M 22 x 2,50	19,50	D				140 x 32 x 18,0 x 14,5	95,59		106,53
M 24 x 3,00	21,00	D				160 x 34 x 18,0 x 14,5	113,86		129,49
M 27 x 3,00	24,00	D				160 x 36 x 20,0 x 16,0	142,41		159,32
M 30 x 3,50	26,50	D				180 x 40 x 22,0 x 18,0	182,98		204,17

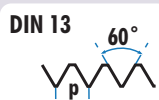
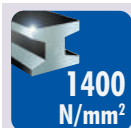
* Vc: Cutting Speed (m/min)

HSSV3 MACHINE TAPS FOR HARD MATERIALS

**HSS
V3**
**TOL
6H**
**HARD
MATERIALS**

**Vc
7
m/min**
**Vc
9
m/min**


			M2RMD	M4RMD	M2RMDTX	M4RMDTX
QUALITY			★★★	★★★	★★★★	★★★★
MATERIAL			HSS V3	HSS V3	HSS V3	HSS V3
COATING			OX	OX	TINALOX	TINALOX
HELIX ANGLE			B FORM	35°	B FORM	35°
		$L1 \times L2 \times D2 \times \square$ mm	€	€	€	€
M 3x0,50	2,50	R 56 x 11 x 3,5 x 2,7	18,45	20,20	27,06	31,82
M 4x0,70	3,30	R 63 x 13 x 4,5 x 3,4	18,51	20,27	28,43	33,32
M 5x0,80	4,20	R 70 x 16 x 6,0 x 4,9	18,51	21,26	28,43	33,32
M 6x1,00	5,00	R 80 x 17 x 6,0 x 4,9	21,01	21,97	31,14	35,04
M 8x1,25	6,80	R 90 x 20 x 8,0 x 6,2	22,45	25,92	34,76	39,95
M 10x1,50	8,50	R 100 x 22 x 10,0 x 8,0	25,86	29,85	43,98	49,06
REDUCED SHANK			M2DMD	M4DMD	M2DMDTX	M4DMDTX
M 12x1,75	10,20	D 110 x 24 x 9,0 x 7,0	36,87	42,53	58,58	68,58
M 14x2,00	12,00	D 110 x 26 x 11,0 x 9,0	48,36	50,48	83,35	91,52
M 16x2,00	14,00	D 110 x 27 x 12,0 x 9,0	54,10	61,08	92,84	110,68
M 18x2,50	15,50	D 125 x 30 x 14,0 x 11,0	80,66	86,89	136,50	154,58
M 20x2,50	17,50	D 140 x 32 x 16,0 x 12,0	87,17	91,74	147,53	163,18

* Vc: Cutting Speed (m/min)

MACHINE TAPS FOR HARDENED MATERIALS (HARDOX 450/500)



TOL
6H

HSSE

HSS
PM

SOLID
CARBIDE

VERY HARD
MATERIALS

48
HRc

48-62
HRc

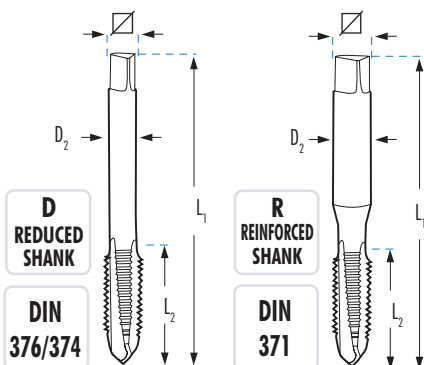


SOLID
CARBIDE

Vc
5 m/min

48
HRc

48-62
HRc



				M2RC	M3RC	M2HRC	M4HRC			M1RCM	M1RHMC
				HSSE	HSSE	HSS PM	HSS PM			HSS PM	SOLID CARBIDE
				TiAlN	TiAlN	TINALOX	TINALOX			TiCN	TiCN
				B FORM	15°	B FORM	35°			C FORM	C FORM
				€	€	€	€			€	€
M 3 x 0,50	2,50	R 56 x 11 x 3,5 x 2,7		29,52	31,40	32,64	36,56	2,60	47,28	2,60	130,98
M 4 x 0,70	3,30	R 63 x 13 x 4,5 x 3,4		29,58	33,44	33,90	37,97	3,40	41,59	3,40	130,98
M 5 x 0,80	4,20	R 70 x 16 x 6,0 x 4,9		29,86	32,68	34,23	38,34	4,30	46,47	4,30	130,98
M 6 x 1,00	5,00	R 80 x 17 x 6,0 x 4,9		32,28	36,18	35,69	39,97	5,10	59,50	5,10	163,73
M 8 x 1,25	6,80	R 90 x 20 x 8,0 x 6,2		37,28	42,54	44,37	49,71	6,90	66,00	6,90	184,26
M 10 x 1,50	8,50	R 100 x 22 x 10,0 x 8,0		44,63	52,70	53,11	55,77	8,60	85,56	8,60	282,73
REDUCED SHANK				M2DC	M3DC	M2HDC	M4HDC			M1RCM	M1DHMC
M 12 x 1,75	10,20	D 110 x 24 x 9,0 x 7,0		66,74	79,22	81,07	88,38	10,40	113,20 *	10,40	442,80
M 14 x 2,00	12,00	D 110 x 26 x 11,0 x 9,0		90,11	105,40	96,14	108,13	12,10	143,12 *	12,10	510,23
M 16 x 2,00	14,00	D 110 x 27 x 12,0 x 9,0		101,67	121,07	106,89	123,95	14,10	153,09 *	16,10	666,25
M 18 x 2,50	15,50	D 125 x 30 x 14,0 x 11,0		128,75	140,20	132,32	144,23			15,75	813,95
M 20 x 2,50	17,50	D 140 x 32 x 16,0 x 12,0		155,93	162,29	156,26	170,33			17,75	1.287,53
M 22 x 2,50	19,50	D 140 x 32 x 18,0 x 14,5		220,88	230,33						
M 24 x 3,00	21,00	D 160 x 34 x 18,0 x 14,5		226,13	236,63	235,97	257,22				
M 27 x 3,00	24,00	D 160 x 36 x 20,0 x 16,0		236,63	254,48						
M 30 x 3,50	26,50	D 180 x 40 x 22,0 x 18,0		253,31	268,13						

* Vc: Cutting Speed (m/min)

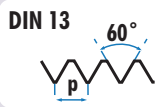
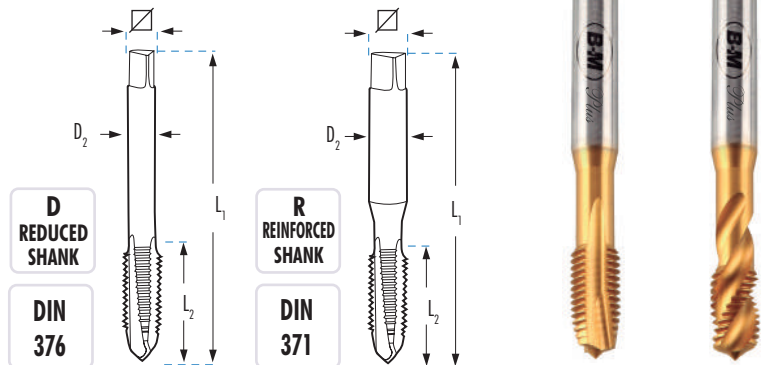
* Reinforced shank: M12 - Ø 12 x 9
M14 - Ø 14 x 11
M16 - Ø 16 x 12



- CUT MAGIC XTHICK Coolant
- We recommend using the same machine and exact position as the one used during prior drilling to ensure perfect coaxiality.

Ref. ACXT00250

HRc	Vc (m/min)
48 Hrc	8 m/min
56 Hrc	6 m/min
62Hrc	3 m/min

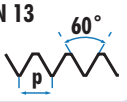
ALL ROAD MACHINE TAPS FOR THREADING ANY MATERIAL
**ALL
ROAD**

**HSSCo
5%**
TiN
**TOL
6H**
APPLICATIONS
**1200
N/mm²**
Al
**CAST
IRON**
Ti
INOX
**V_c
13
m/min**


	Ø	L1 x L2 x D2 x mm	M2RD	M4RD
			B FORM €	35° €
M 3 x 0,50	2,50	R 56 x 11 x 3,5 x 2,7	27,71	34,64
M 4 x 0,70	3,30	R 63 x 13 x 4,5 x 3,4	29,65	34,64
M 5 x 0,80	4,20	R 70 x 16 x 6,0 x 4,9	31,54	35,88
M 6 x 1,00	5,00	R 80 x 17 x 6,0 x 4,9	32,64	37,24
M 8 x 1,25	6,80	R 90 x 20 x 8,0 x 6,2	38,24	42,49
M 10 x 1,50	8,50	R 100 x 22 x 10,0 x 8,0	44,12	50,34
REDUCED SHANK			M2DD	M4DD
M 12 x 1,75	10,20	D 110 x 24 x 9,0 x 7,0	55,60	66,19
M 14 x 2,00	12,00	D 110 x 26 x 11,0 x 9,0	72,61	79,79
M 16 x 2,00	14,00	D 110 x 27 x 12,0 x 9,0	81,36	88,06
M 18 x 2,50	15,50	D 125 x 30 x 14,0 x 11,0	127,14	130,38
M 20 x 2,50	17,50	D 140 x 32 x 16,0 x 12,0	129,51	134,36

 * V_c: Cutting Speed (m/min)

HSSCo & CARBIDE MACHINE TAPS FOR SPECIAL APPLICATIONS

Al
CAST IRON
BRASS

DIN 13


HSSCo
5%

SOLID
CARBIDE

TOL
6H

Vc
18 m/min



Vc
11 m/min



Vc
21 m/min



Vc
16 m/min



Vc
19 m/min



Vc
19 m/min



D
REDUCED
SHANK





DIN
376

R
REINFORCED
SHANK



DIN
371

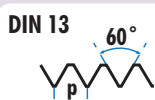
				M5R	M6R	M1RFM	MHM1R	M1RL	M1RLCRN
		APPLICATION		Al	Al	CAST IRON	CAST IRON	BRASS	BRASS
		MATERIAL		HSSCo 5%	HSSCo 5%	HSSCo 5%	SOLID CARBIDE	HSSCo 5%	HSSCo 5%
		COATING		BRIGHT	BRIGHT	OX	BRIGHT	BRIGHT	CrN
		FORM		INTERRUPTED THREAD	2 FLUTES	C FORM	C FORM	C FORM	C FORM
		L1 x L2 x D2 x ∅ mm		€	€	€	€	€	€
M 3x0,50	2,50	R	56 x 11 x 3,5 x 2,7	23,91	25,65	16,92	85,74	20,25	23,01
M 4x0,70	3,30	R	63 x 13 x 4,5 x 3,4	24,05	25,65	17,48	85,74	21,50	25,36
M 5x0,80	4,20	R	70 x 16 x 6,0 x 4,9	23,91	26,20	17,48	85,74	21,50	25,45
M 6x1,00	5,00	R	80 x 17 x 6,0 x 4,9	25,20	28,33	19,86	97,80	23,56	27,79
M 8x1,25	6,80	R	90 x 20 x 8,0 x 6,2	30,17	33,95	22,24	109,20	26,87	33,79
M 10x1,50	8,50	R	100 x 22 x 10,0 x 8,0	36,37	40,14	25,44	136,86	32,32	41,12
REDUCED SHANK				M5D	M6D	M1DFM	MHM1D	M1DL	M1DLCRN
M 12x1,75	10,20	D	110 x 24 x 9,0 x 7,0	46,23	50,45	32,60	190,92	38,42	50,63
M 14x2,00	12,00	D	110 x 26 x 11,0 x 9,0	83,72	87,13	53,59	297,42	47,17	61,70
M 16x2,00	14,00	D	110 x 27 x 12,0 x 9,0	91,25	98,81	63,05	353,84	54,26	68,99
M 18x2,50	15,50	D	125 x 30 x 14,0 x 11,0			88,20	433,74	71,17	87,37
M 20x2,50	17,50	D	140 x 32 x 16,0 x 12,0			88,55	525,24	79,88	97,27

* Vc: Cutting Speed (m/min)

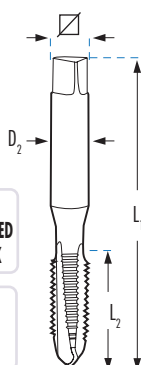


- **CUT MAGIC ALUMINIUM** Coolant
- We recommend using CUT MAGIC ALUMINIUM to optimize the aluminium and its casts threading

Ref. ACAL00250

FORMING MACHINE TAPS WITH & WITHOUT OIL GROOVES

HSSCo
5%
HSSCo
8%
TOL
6HX
APPLICATIONS

800
 N/mm²
Al
CAST
IRON

1400
 N/mm²
INOX
Plus

R
REINFORCED
SHANK
DIN
2174


				M07R	M07RT	M07RCR	M07RCCR	M09RCR	M07RXTCR
				HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 8%	HSSCo 5%
				OX	TiN	OX	TiCN	TiCN	TiN
			L1 x L2 x D2 x mm	€	€	€	€	€	€
M	3x0,50	2,75	R 56 x 11 x 3,5 x 2,7	33,82	36,72	37,22	46,70	112,36	83,79
M	3,5x0,60	3,20	R 56 x 11 x 3,5 x 2,7	35,55	40,49	38,45	49,43		
M	4x0,70	3,65	R 63 x 13 x 4,5 x 3,4	33,82	38,29	37,22	48,71	113,78	83,79
M	5x0,80	4,60	R 70 x 16 x 6,0 x 4,9	33,82	38,29	37,22	48,71	115,29	90,43
M	6x1,00	5,50	R 80 x 17 x 6,0 x 4,9	36,52	40,47	40,16	51,48	117,12	90,43
M	8x1,25	7,40	R 90 x 20 x 8,0 x 6,2	42,56	53,41	46,82	67,97	129,92	108,22
M	10x1,50	9,30	R 100 x 22 x 10,0 x 8,0	47,33	59,89	52,08	74,80	155,12	132,12
REDUCED SHANK				M07D	M07DT	M07DCR	M07DCCR	M09DCCR	M07DXTCR
M	12x1,75	11,20	D 110 x 24 x 9,0 x 7,0	55,79	78,32	59,09	85,66	183,62	172,05
M	14x2,00	13,05	D 110 x 26 x 11,0 x 9,0	100,57	123,69	104,48	139,06	228,52	247,51
M	16x2,00	15,05	D 110 x 27 x 12,0 x 9,0	118,06	139,31	122,63	147,21	314,30	251,80
M	18x2,50	16,80	D 125 x 30 x 14,0 x 11,0	135,48	166,58	140,72	173,94	372,40	
M	20x2,50	18,80	D 140 x 32 x 16,0 x 12,0	178,51	252,17	185,43	264,43	412,29	

MACHINE TAPS WITH SPECIAL TOLERANCE AND OVERSIZE



		M2R4H	M4R4H	M2R6G	M4R6G	M2R7G	M4R7G	M2R+0,1	M4R+0,1	M2R+0,2	M4R+0,2	
		TOL 4H	TOL 4H	TOL 6G	TOL 6G	TOL 7G	TOL 7G	TOL 6H (+0,1)	TOL 6H (+0,1)	TOL 6H (+0,2)	TOL 6H (+0,2)	
		HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	HSSCo 5%	
		BRIGHT	BRIGHT	BRIGHT	BRIGHT	BRIGHT	BRIGHT	BRIGHT	BRIGHT	BRIGHT	BRIGHT	
		B FORM	35°	B FORM	35°	B FORM	35°	B FORM	35°	B FORM	35°	
		€	€	€	€	€	€	€	€	€	€	
M 3x0,50	2,50	R 56 x 11 x 3,5 x 2,7	23,14	28,61	16,98	20,20	23,14	28,61	23,89	31,87	27,41	33,94
M 4x0,70	3,30	R 63 x 13 x 4,5 x 3,4	23,68	28,61	16,98	20,20	23,68	28,61	24,45	31,87	28,04	33,94
M 5x0,80	4,20	R 70 x 16 x 6,0 x 4,9	23,68	27,42	16,98	19,82	23,68	27,42	24,45	30,52	28,04	32,49
M 6x1,00	5,00	R 80 x 17 x 6,0 x 4,9	26,02	30,08	18,28	21,77	26,02	30,08	26,85	33,50	30,82	35,66
M 8x1,00	7,00	D 90 x 20 x 6,0 x 4,9			35,60	39,36						
M 8x1,25	6,75	R 90 x 20 x 8,0 x 6,2	29,14	34,35	21,25	25,52	29,14	34,35	30,08	38,22	34,52	40,71
M 10x1,00	9,00	D 90 x 16 x 7,0 x 5,5			42,04	48,93						
M 10x1,50	8,50	R 100 x 22 x 10,0 x 8,0	35,83	40,77	26,15	29,18	35,83	40,77	37,01	45,33	42,48	48,26
		M2D4H	M4D4H	M2D6G	M4D6G	M2D7G	M4D7G	M2D+0,1	M4D+0,1	M2D+0,2	M4D+0,2	
M 12x1,50	10,50	D 100 x 22 x 9,0 x 7,0		76,60	90,81							
M 12x1,75	10,20	D 110 x 24 x 9,0 x 7,0	46,20	54,85	34,48	41,54	46,20	54,85	46,35	58,76	52,66	62,57
M 14x2,00	12,00	D 110 x 26 x 11,0 x 9,0			42,36	50,89			75,61	93,53	85,92	99,61
M 16x2,00	14,00	D 110 x 27 x 12,0 x 9,0			52,35	61,47			88,92	113,03	101,08	120,37
M 18x2,50	15,50	D 125 x 30 x 14,0 x 11,0			73,83	76,10			134,46	152,24	143,18	162,11
M 20x2,50	17,50	D 140 x 32 x 16,0 x 12,0			76,25	87,48			145,29	161,99	154,71	172,50

4H.- Highly accurate threads. Finer adjustment.

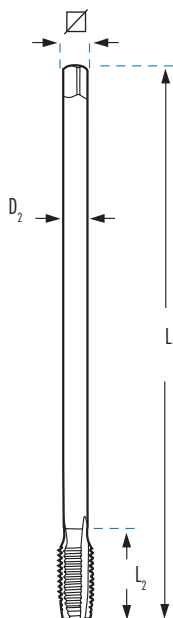
6G.- For coating threads. Thicknesses between 20 - 40 μ

7G.- For coating threads. Thicknesses between 40 - 50 μ

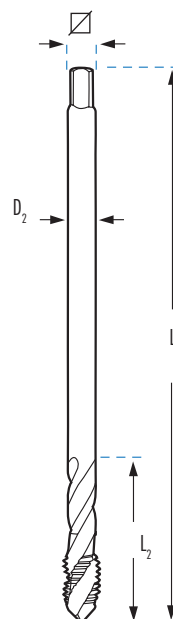
6H (+0,1).- To make oversized threads or compensate heat treatment deformations.

6H (+0,2).- To make oversized threads or compensate heat treatment deformations.

HSSCo EXTRA-LONG MACHINE TAPS

**B
FORM****HSSCo
5%****BRIGHT****TOL
6H****R
REINFORCED
SHANK****DIN
371****D
REDUCED
SHANK****DIN
376**

				M2L
			L1 x L2 x D2 x mm	B FORM €
M2LM03X0,50	M 3x0,50	2,50	R 100 x 10 x 3,5 x 2,7	38,63
M2LM04X0,70	M 4x0,70	3,30	R 120 x 12 x 4,5 x 3,4	39,48
M2LM05X0,80	M 5x0,80	4,20	R 140 x 14 x 6,0 x 4,9	39,48
M2LM06X1,00-120	M 6x1,00	5,00	R 120 x 16 x 6,0 x 4,9	41,67
M2LM06X1,00	M 6x1,00	5,00	R 160 x 16 x 6,0 x 4,9	43,38
M2LM07X1,00	M 7x1,00	6,00	R 160 x 17 x 7,0 x 5,5	49,27
M2LM08X1,25-150	M 8x1,25	6,80	R 150 x 18 x 8,0 x 6,2	49,34
M2LM08X1,25	M 8x1,25	6,80	R 180 x 18 x 8,0 x 6,2	50,86
				M2L-D
				B FORM €
M2LM06X1,00D	M 6x1,00	5,00	D 160 x 16 x 4,5 x 3,4	45,03
M2LM08X1,25D	M 8x1,25	6,80	D 180 x 18 x 6,2 x 5,0	52,84
M2LM10X1,50-150	M 10x1,50	8,50	D 150 x 20 x 7,0 x 5,5	58,13
M2LM10X1,50	M 10x1,50	8,50	D 200 x 20 x 7,0 x 5,5	62,61
M2LM12X1,75-150	M 12x1,75	10,20	D 150 x 22 x 8,5 x 6,5	72,11
M2LM12X1,75	M 12x1,75	10,20	D 220 x 22 x 8,5 x 6,5	77,04
M2LM14X2,00	M 14x2,00	12,00	D 220 x 25 x 10,5 x 8,0	119,55
M2LM16X2,00	M 16x2,00	14,00	D 220 x 28 x 12,5 x 10,0	140,64
M2LM18X2,50	M 18x2,50	15,50	D 250 x 32 x 14,0 x 11,0	255,90
M2LM20X2,50	M 20x2,50	17,50	D 250 x 32 x 16,0 x 12,0	276,57
M2LM22X2,50	M 22x2,50	19,50	D 250 x 35 x 18,0 x 14,5	315,32
M2LM24X3,00	M 24x3,00	21,00	D 250 x 38 x 18,0 x 14,5	385,57

**HSSCo
5%****BRIGHT****TOL
6H****R
REINFORCED
SHANK****DIN
371****D
REDUCED
SHANK****DIN
376**

				M4L
			L1 x L2 x D2 x mm	35° €
M4LM03X0,50	M 3x0,50	2,50	R 100 x 10 x 3,5 x 2,7	47,80
M4LM04X0,70	M 4x0,70	3,30	R 120 x 12 x 4,5 x 3,4	47,80
M4LM05X0,80	M 5x0,80	4,20	R 140 x 14 x 6,0 x 4,9	45,79
M4LM06X1,00-120	M 6x1,00	5,00	R 120 x 16 x 6,0 x 4,9	47,21
M4LM06X1,00	M 6x1,00	5,00	R 160 x 16 x 6,0 x 4,9	50,23
M4LM07X1,00	M 7x1,00	6,00	R 160 x 17 x 7,0 x 5,5	57,03
M4LM08X1,25-150	M 8x1,25	6,80	R 150 x 18 x 8,0 x 6,2	57,86
M4LM08X1,25	M 8x1,25	6,80	R 180 x 18 x 8,0 x 6,2	61,04
				M4L-D
				35° €
M4LM06X1,00D	M 6x1,00	5,00	D 160 x 16 x 4,5 x 3,4	52,19
M4LM08X1,25D	M 8x1,25	6,80	D 180 x 18 x 6,2 x 5,0	62,15
M4LM10X1,50-150	M 10x1,50	8,50	D 150 x 20 x 7,0 x 5,5	65,48
M4LM10X1,50	M 10x1,50	8,50	D 200 x 20 x 7,0 x 5,5	70,74
M4LM12X1,75-150	M 12x1,75	10,20	D 150 x 22 x 8,5 x 6,5	80,18
M4LM12X1,75	M 12x1,75	10,20	D 220 x 22 x 8,5 x 6,5	91,51
M4LM14X2,00	M 14x2,00	12,00	D 220 x 25 x 10,5 x 8,0	133,96
M4LM16X2,00	M 16x2,00	14,00	D 220 x 28 x 12,5 x 10,0	194,13
M4LM18X2,50	M 18x2,50	15,50	D 250 x 32 x 14,0 x 11,0	289,75
M4LM20X2,50	M 20x2,50	17,50	D 250 x 32 x 16,0 x 12,0	308,37
M4LM22X2,50	M 22x2,50	19,50	D 250 x 35 x 18,0 x 14,5	345,44
M4LM24X3,00	M 24x3,00	21,00	D 250 x 38 x 18,0 x 14,5	393,79

EXTRA-LONG NUT MACHINE TAPS

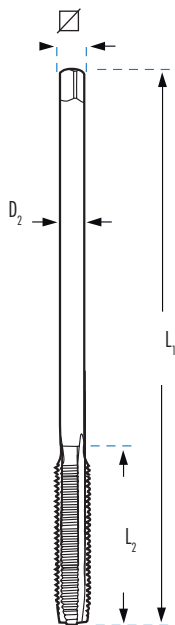


HSSCo
5%

BRIGHT

TOL
6H

DIN
357

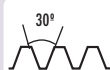


				MTU	
				A FORM	
				€	
			L1 x L2 x D2 x \square mm		
M	3x0,50**	2,50	D 70 x 22 x 2,2	25,34	
M	4x0,70	3,30	D 90 x 25 x 2,8 x 2,1	25,34	
M	5x0,80	4,20	D 100 x 28 x 3,5 x 2,7	25,34	
M	6x1,00	5,00	D 110 x 32 x 4,5 x 3,4	25,34	
M	8x1,25	6,80	D 125 x 40 x 6,0 x 4,9	30,54	
M	10x1,50	8,50	D 140 x 45 x 7,0 x 5,5	29,85	
M	12x1,75	10,20	D 180 x 50 x 9,0 x 7,0	36,15	
M	14x2,00	12,00	D 200 x 56 x 11,0 x 9,0	57,13	
M	16x2,00	14,00	D 200 x 63 x 12,0 x 9,0	70,73	
M	18x2,50	15,50	D 220 x 63 x 14,0 x 11,0	95,15	
M	20x2,50	17,50	D 250 x 70 x 16,0 x 12,0	134,33*	
M	22x2,50	19,50	D 280 x 80 x 18,0 x 14,5	164,81*	
M	24x3,00	21,00	D 280 x 80 x 18,0 x 14,5	224,25*	

**Cylindrical shank

*Available until end of stock

HSS MACHINE TAPS FOR TRAPEZOIDAL THREADS



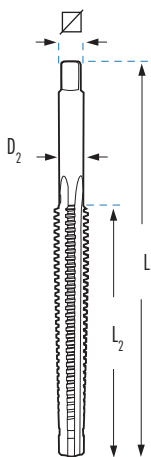
HSS

BRIGHT



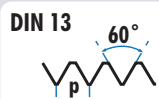
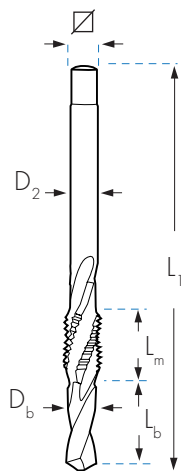
DIN
103

TOL
7H



				MRTM	
				€	
			L1 x L2 x D2 x \square mm		
Tr	14 x 3	11,25	160 x 105 x 10,5 x 8,0	598,95	
Tr	16 x 4	12,25	205 x 110 x 11,5 x 9,0	623,53	
Tr	18 x 4	14,25	215 x 120 x 13,0 x 10,0	657,30	
Tr	20 x 4	16,25	230 x 130 x 15,0 x 12,0	660,38	
Tr	22 x 5	17,25	270 x 165 x 16,0 x 12,0	869,25	
Tr	24 x 5	19,25	280 x 165 x 18,0 x 14,5	985,98	
Tr	26 x 5	21,25	290 x 170 x 20,0 x 16,0	1.020,18	
Tr	28 x 5	23,25	300 x 180 x 22,0 x 18,0	1.155,64	
Tr	30 x 6	24,25	345 x 200 x 23,0 x 18,0	1.329,98	

HSSCo DRILL-TAPS


HSSCo
5%
BRIGHT
TOL
6H
R
REINFORCED
SHANK
DIN
371
D
REDUCED
SHANK
DIN
376


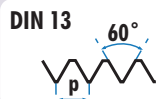
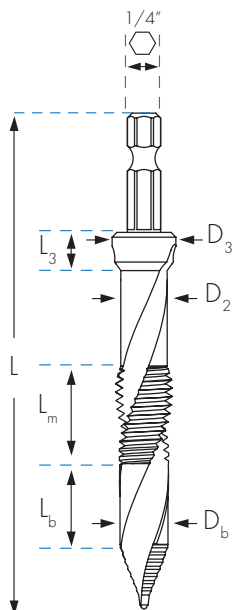
								M&M
		Lb mm	Lm mm	L1 mm	Db mm	D2 mm		€
M	3x0,50	R 9,0	12,5	62,0	2,5	3,5	2,7	38,84
M	4x0,70	R 10,0	16,0	66,0	3,30	4,5	3,4	38,84
M	5x0,80	R 12,5	18,0	75,5	4,20	6,0	4,9	40,36
M	6x1,00	R 14,0	20,0	81,0	5,00	6,0	4,9	44,57
M	8x1,00	R 20,0	14,0	91,0	7,00	6,0	4,9	52,32
M	8x1,25	R 20,0	14,0	91,0	6,75	8,0	6,2	50,25

REDUCED SHANK

M	8x1,25	D 20,0	14,0	91,0	6,75	6,0	4,9	54,29
M	10x1,00	D 20,0	15,0	95,0	9,00	7,0	5,5	64,94
M	10x1,50	D 25,0	18,0	105,0	8,50	7,0	5,5	68,93
M	12x1,50	D 24,0	18,0	110,0	10,50	9,0	7,0	75,23
M	12x1,75	D 28,0	20,0	118,0	12,50	11,0	9,0	74,79
M	14x1,50	D 28,0	20,0	118,0	12,50	11,0	9,0	119,05
M	14x2,00	D 28,0	22,0	130,0	12,00	11,0	9,0	135,41
M	16x2,00	D 36,0	24,0	139,0	14,00	12,0	9,0	178,09
M	18x2,50	D 40,0	26,0	151,0	15,50	14,0	11,0	259,75
M	20x2,50	D 45,0	30,0	168,0	17,50	16,0	2,0	373,02

Note: Never use the drill taps in blind hole or through hole deeper than Lb

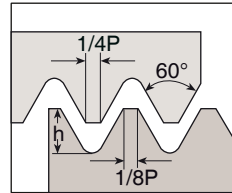
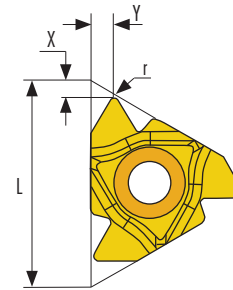
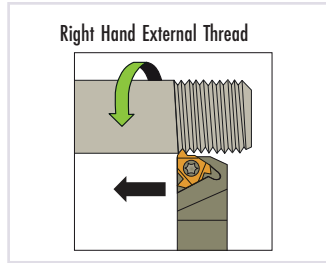
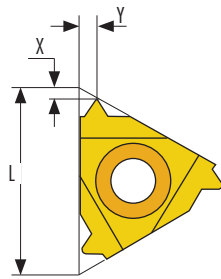
HSSCO STEP CUT DRILL-TAP WITH COUNTERSINK

NEW

HSSCo
5%
BRIGHT
TOL
6H
D
REDUCED
SHANK
1/4"
STEP CUT


									MTKM	
		Lb mm	Lm mm	L3 mm	L mm	Db mm	D2 mm	D3 mm		€
M	3x0,50	D 7,0	6,0	6,0	57,0	2,5	2,2	7,3	1/4"	28,21
M	4x0,70	D 7,0	8,5	6,0	62,0	3,3	3,0	7,3	1/4"	28,21
M	5x0,80	D 9,0	10,0	6,0	69,0	4,2	3,7	7,3	1/4"	29,44
M	6x1,00	D 10,0	12,0	6,0	73,0	5,0	4,5	7,3	1/4"	30,66
M	8x1,25	D 12,0	16,0	6,0	87,0	6,8	6,3	9,4	1/4"	42,38
M	10x1,50	D 14,0	20,0	6,0	96,0	8,5	8,0	11,4	1/4"	51,14
M	12x1,75	D 16,0	24,0	8,0	112,0	10,3	9,8	13,4	1/4"	56,36

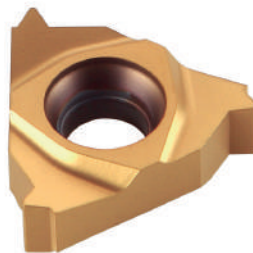
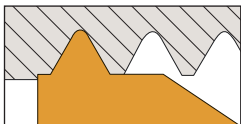
Note: Never use the drill taps countersink in blind hole or through hole deeper than Lb

INDEXABLE THREAD TURNING INSERT

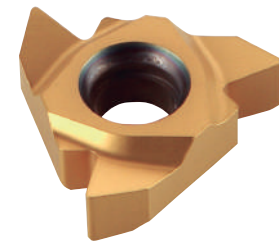
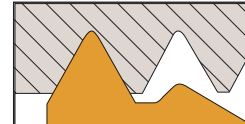


Norm: R262 (DIN 13)
Class Tolerance: 6g/6H

Full Profile



V-Profile



Form a complete thread, including the crest.
We'll need a separate insert for each pitch and profile

Doesn't top the thread crests.
The same insert may be used for a range of pitches with the same thread profile angle

FULL PROFILE 60°

EXTERNAL THREADING	L	Pitch	h	X	Y	€
PRE-16-075	16	0,75	0,46	0,6	0,6	26,84*
PRE-16-100		1,00	0,61	0,7	0,7	26,84*
PRE-16-125		1,25	0,77	0,8	0,9	26,84*
PRE-16-150		1,50	0,92	0,8	1	26,84*
PRE-16-175		1,75	1,07	0,9	1,2	26,84*
PRE-16-200		2,00	1,23	1	1,3	26,84*
PRE-16-250		2,50	1,53	1,1	1,5	26,84*
PRE-16-300		3,00	1,84	1,2	1,6	26,84*

* Till end of stock

V-PROFILE 60°

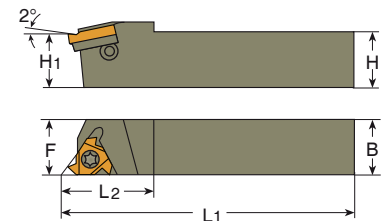
EXTERNAL THREADING	L	METRIC RANGE	INCH RANGE	r	X	Y	€
PPRE-16-150	16	0,50-1,50	48 - 16	0,05	0,80	0,90	26,84*

* Till end of stock

TOOL HOLDER FOR EXTERNAL THREADING

EXTERNAL THREADING	H1=H=B=F	L1	L2	€
PEXT-25-16	25	153	30	196,21*

* Till end of stock



FORMULA TO CALCULATE THE TURNING SPEED OF THE WORKPIECE

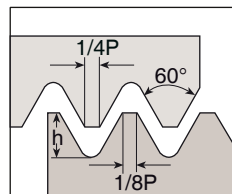
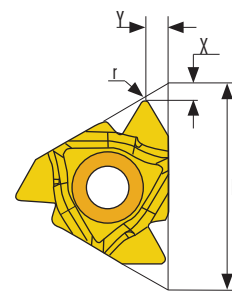
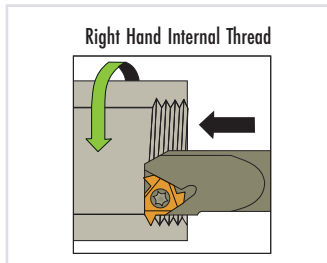
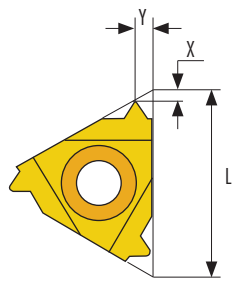
N: Revolution per Minute
Vc: Cutting Speed (m/min)
D: Workpiece Diameter (mm)

$$\text{RPM} = \frac{1000 \times Vc}{\pi \times D}$$

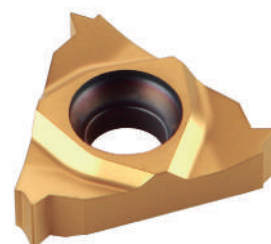
RPM Depends on Vc and D

	Cs		Cs
STEEL 70 kg/mm ²	25 m / min	ALUMINIUM	50 m / min
HARDENED STEEL 120 kg/mm ²	13 m / min	TITANIUM	18 m / min
STAINLESS STEEL	11 m / min	CAST IRON	25 m / min
		BRASS	50 m / min

INDEXABLE THREAD TURNING INSERT



Norm: R262 (DIN 13)
Class Tolerance: 6g/6H



FULL PROFILE 60°

INTERNAL THREADING	L	Pitch	h	X	Y	€
PRI-16-075	16	0,75	0,43	0,6	0,6	26,84*
PRI-16-100		1,00	0,58	0,6	0,7	26,84*
PRI-16-125		1,25	0,72	0,8	0,9	26,84*
PRI-16-150		1,50	0,87	0,8	1,0	26,84*
PRI-16-175		1,75	1,01	0,9	1,2	26,84*
PRI-16-200		2,00	1,15	1,0	1,3	26,84*
PRI-16-250		2,50	1,44	1,1	1,5	26,84*
PRI-16-300		3,00	1,73	1,1	1,5	26,84*

* Till end of stock

V-PROFILE 60°

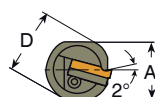
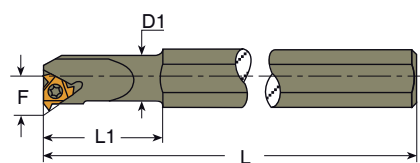
INTERNAL THREADING	L	METRIC RANGE	INCH RANGE	r	X	Y	€
PPRI-16-150	16	0,50-1,50	48 - 16	0,05	0,80	0,90	26,84*
PPRI-16-300		1,75-3,00	14 - 8	0,16	1,20	1,70	26,84*

* Till end of stock

TOOL HOLDER FOR INTERNAL THREADING

INTERNAL THREADING	L	L1	D	D1	A	Ø MÍN. HOLE	€
PINT-25-16	200	45	25	24,6	22,6	29	236,46*

* Till end of stock



MACHINE TAPS FOR GENERAL PURPOSE IN METAL BOXES

**GENERAL
PURPOSE**

**HSSCo
5%**



Ref. JM6



Ref. JM2






Ref. JM8



Ref. JM4



CONTENT

	C FORM	B FORM	 15°	 35°	 HSS	HSSCo 5% €
JM5	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	-	111,81
JM1	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	133,74
JM6	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	-	119,13
JM2	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	133,98
JM7	-	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	-	148,42
JM3	-	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	177,35
JM8	-	-	-	M3 - M4 - M5 - M6 M8 - M10 - M12	-	150,98
JM4	-	-	-	M3 - M4 - M5 - M6 M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	175,46



MACHINE TAPS FOR SPECIAL APPLICATIONS IN METAL BOXES
Plus


Ref. JMPT2



CONTENT

	B FORM	BRIGHT	 35°	BRIGHT	 HSSCo 5%	HSS PM €		TiN €
JMP6	M3 - M4 - M5 - M6 M8 - M10 - M12		-		-	124,14	JMPT6	179,05
JMP2	M3 - M4 - M5 - M6 M8 - M10 - M12		-		2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	162,80	JMPT2	217,85
JMP8	-		M3 - M4 - M5 - M6 M8 - M10 - M12		-	179,05	JMPT8	197,20
JMP4	-		M3 - M4 - M5 - M6 M8 - M10 - M12		2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	217,85	JMPT4	236,13

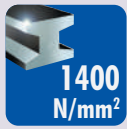
INOX
CONTENT

	B FORM	OX	 35°	OX	 HSSCo 5%	HSS PM €		TiN €
JMX6	M3 - M4 - M5 - M6 M8 - M10 - M12		-		-	160,16	JMXT6	174,71
JMX2	M3 - M4 - M5 - M6 M8 - M10 - M12		-		2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	198,98	JMXT2	213,53
JMX8	-		M3 - M4 - M5 - M6 M8 - M10 - M12		-	182,77	JMXT8	201,50
JMX4	-		M3 - M4 - M5 - M6 M8 - M10 - M12		2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	221,57	JMXT4	240,29


1200
 N/mm²
CONTENT

	B FORM	OX	 35°	OX	 HSSCo 5%	HSS V3 €		TINALOX €
JMMD6	M3 - M4 - M5 - M6 M8 - M10 - M12		-		-	145,58	JMMDT6	206,68
JMMD2	M3 - M4 - M5 - M6 M8 - M10 - M12		-		2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	184,39	JMMDT2	245,48
JMMD8	-		M3 - M4 - M5 - M6 M8 - M10 - M12		-	166,15	JMMDT8	238,33
JMMD4	-		M3 - M4 - M5 - M6 M8 - M10 - M12		2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	204,95	JMMDT4	277,13

MACHINE TAPS FOR SPECIAL APPLICATIONS IN METAL BOXES



Ref. JMC2

CONTENT

	B FORM	TiCN	15° TiCN	HSSCo 5%	HSS-PM €
JMC6	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	-	247,65
JMC2	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	286,46
JMC8	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	281,89
JMC4	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	-	320,70

**ALL
ROAD**

CONTENT


	B FORM	TiN	35° TiN	HSSCo 5%	HSSCo 5% €
JMD6	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	-	223,80
JMD2	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	262,61
JMD8	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	252,38
JMD4	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	-	291,19

AI

CONTENT

	INTERRUPTED THREAD	BRIGHT	2 FLUTES BRIGHT	HSS	HSSCo 5% €
JMAL6	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	-	177,20
JMAL2	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	216,00
JMAL8	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	-	-	175,22
JMAL4	-	M3 - M4 - M5 - M6 - M8 - M10 - M12	2.5/3.3/4.2/5.0/6.8/8.5/10.2 mm	-	214,03

MACHINE TAPS IN PLASTIC BOXES
**GENERAL
PURPOSE**
CONTENT

	B FORM	BRIGHT	 35°	BRIGHT	HSSCo 5% €
PT01	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	135,91



Ref. PT01


Plus
CONTENT

	B FORM	BRIGHT	 35°	BRIGHT	HSS PM €		TiN €
PT02	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	170,97	PT03	251,09



Ref. PT03

INOX
CONTENT

	B FORM	OX	 35°	OX	HSS PM €		TiN €
PT05	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	224,65	PT13	239,07



Ref. PT05



CONTENT

	B FORM	OX	 35°	OX	HSS V3 €		TINALOX €
PT04	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	192,79	PT14	289,73



Ref. PT04


CONTENT

	B FORM	TiCN	 15°	TiCN	HSS PM €
PT11	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	M4 - M5 - M6 - M8 - M10	349,27



Ref. PT11

MACHINE TAPS IN PLASTIC BOXES

AI



Ref. PT06

CONTENT

	INTERRUPTED THREAD	2 FLUTES	HSSCo 5% €
PT06	M4 - M5 - M6 M8 - M10	M4 - M5 - M6 M8 - M10	213,14

**CAST
IRON**



Ref. PT07

CONTENT

	C FORM	HSSCo 5% €
PT07	M4 - M5 - M6 - M8 - M10 M4 - M5 - M6 - M8 - M10	161,08

BRASS



Ref. PT10

CONTENT

	C FORM	HSSCo 5% €
PT10	M4 - M5 - M6 - M8 - M10 M4 - M5 - M6 - M8 - M10	195,81




FORMING



Ref. PT08

CONTENT

		HSSCo 5% €
PT08	M4 - M5 - M6 - M8 - M10 M4 - M5 - M6 - M8 - M10	294,81



Ref. PT09

CONTENT


		HSSCo 5% €
PT09	M4 - M5 - M6 - M8 - M10 M4 - M5 - M6 - M8 - M10	397,16

**TOL
6G**



Ref. PT12

CONTENT

	B FORM	 35°	HSSCo 5% €
PT12	M4 - M5 - M6 M8 - M10	M4 - M5 - M6 M8 - M10	220,24

MACHINE TAPS METHACRYLATE DISPLAYS
METHACRYLATE DISPLAY
MM-03

Content: Standard series machine taps

HSSCo
5%


Ref. MM-03

B
FORM

B Form through holes: Ref. M2

M4	M5	M6	M8	M10	M12	M14
5	10	10	10	10	5	4


35°

35° blind holes: Ref. M4

M4	M5	M6	M8	M10	M12	M14
5	10	10	10	10	5	4

Dimensions: width 240 x depth 240 x height 245 mm.

2.091,99 €


Ref. MM-04

METHACRYLATE DISPLAY
MM-04

 Content: Plus series machine taps
 Manufactured in powder steel (ASP)

HSS
PM
Plus
B
FORM

B Form through holes: Ref. M2

M4	M5	M6	M8	M10	M12	M14
5	10	10	10	10	5	4


35°

35° blind holes: Ref. M4

M4	M5	M6	M8	M10	M12	M14
5	10	10	10	10	5	4

Dimensions: width 240 x depth 240 x height 245 mm.

2.854,15 €
METHACRYLATE DISPLAY
MM-05

Content: Machine taps for special works

B
FORM

B Form through holes: Ref. M2


1200
N/mm²

M4	M5	M6	M8	M10	M12	M14
1	2	2	2	2	1	1

INOX

M4	M5	M6	M8	M10	M12	M14
1	2	2	2	2	1	1

Al

M4	M5	M6	M8	M10	M12	M14
1	2	2	2	2	1	1

TiN

M4	M5	M6	M8	M10	M12	M14
1	2	2	2	2	1	1


1400
N/mm²

M4	M5	M6	M8	M10	M12
1	2	2	2	2	1


35°

35° blind holes: Ref. M4


1200
N/mm²

M4	M5	M6	M8	M10	M12	M14
1	2	2	2	2	1	1

INOX

M4	M5	M6	M8	M10	M12	M14
1	2	2	2	2	1	1

Al

M4	M5	M6	M8	M10	M12	M14
1	2	2	2	2	1	1

TiN

M4	M5	M6	M8	M10	M12	M14
1	2	2	2	2	1	1


1400
N/mm²

M4	M5	M6	M8	M10	M12
1	2	2	2	2	1

Dimensions: width 240 x depth 240 x height 245 mm.

3.565,05 €