

JOGOS DE MACHOS -M

HSS DIREITOS

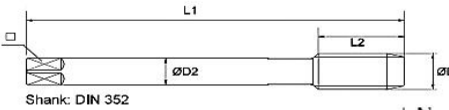
HSS ESQUERDOS

HSSE - INOX

M Metric coarse thread
ISO DIN 13

Efficient internal thread cutting.
The short structural type makes that tap usable by hand.

A Hand-Tap-Set includes 3 taps:
Taper Tap
Intermediate Tap
Finish Tap



for general use

through holes & blind holes up to 2 x D

Chip removal (like picture)

Form C straight flutes

TOL N/mm² HRC

material: HSSG ISO2/6H to 900 N/mm² 27.1 HRC

2-3 threads outside cooling and lubrication



for general use

through holes & blind holes up to 2 x D

Chip removal (like picture)

Form C straight flutes

TOL N/mm² HRC

material: HSSG ISO2/6H to 900 N/mm² 27.1 HRC

2-3 threads outside cooling and lubrication



for stainless steels

through holes & blind holes up to 2 x D

Chip removal (like picture)

Form C straight flutes

TOL N/mm² HRC

material: HSSE steam tempered ISO2/6H to 1400 N/mm² 44.5 HRC

2-3 threads outside cooling and lubrication



M	D1	D2	L1	L2	□	✎	No.	€	No.	€	No.	€
M 1 x 0,25	1,0	2,5	32	6	2,1	0,75	110301001	20,05				
M 1,1 x 0,25	1,1	2,5	32	6	2,1	0,85	110301002	20,05				
M 1,2 x 0,25	1,2	2,5	32	6	2,1	0,95	110301003	20,05				
M 1,4 x 0,3	1,4	2,5	32	7	2,1	1,10	110301004	20,05				
M 1,6 x 0,35	1,6	2,5	32	8	2,1	1,25	110301005	20,05				
M 1,7 x 0,35	1,7	2,5	32	8	2,1	1,30	110301006	20,05				
M 1,8 x 0,35	1,8	2,5	32	8	2,1	1,45	110301007	20,05				
M 2 x 0,4	2,0	2,8	36	8	2,1	1,60	110301008	14,68				
M 2,2 x 0,45	2,2	2,8	36	9	2,1	1,75	110301009	14,68				
M 2,3 x 0,4	2,3	2,8	36	9	2,1	1,90	110301010	14,68				
M 2,5 x 0,45	2,5	2,8	40	9	2,1	2,05	110301011	14,68				
M 2,6 x 0,45	2,6	2,8	40	9	2,1	2,10	110301012	14,68				
M 3 x 0,5	3,0	3,5	40	11	2,7	2,50	110301013	7,60	110302001	13,02	110305001	23,05
M 3 x 0,6 *	3,0	3,5	40	11	2,7	2,40	110301014	39,60				
M 3,5 x 0,6	3,5	4,0	45	13	3,0	2,90	110301015	11,35				
M 3,5 x 0,75 *	3,5	4,0	45	13	3,0	2,75	110301016	196,35				
M 4 x 0,7	4,0	4,5	45	13	3,4	3,30	110301017	7,60	110302002	13,02	110305002	23,40
M 4 x 0,75	4,0	4,5	45	13	3,4	3,25	110301018	41,00				
M 4,5 x 0,75	4,5	6,0	50	16	4,9	3,70	110301019	11,35				
M 5 x 0,8	5,0	6,0	50	16	4,9	4,20	110301020	8,25	110302003	15,03	110305003	24,70
M 5 x 0,9 *	5,0	6,0	50	16	4,9	4,10	110301021	45,00				
M 5,5 x 0,9	5,5	6,0	50	18	4,9	4,60	110301022	13,70				
M 6 x 1,0	6,0	6,0	50	19	4,9	5,00	110301023	8,25	110302004	15,68	110305004	24,70
M 7 x 1,0	7,0	6,0	50	19	4,9	6,00	110301024	13,69				
M 8 x 1,25	8,0	6,0	56	22	4,9	6,80	110301025	10,68	110302005	17,69	110305005	33,70
M 9 x 1,25	9,0	7,0	63	22	5,5	7,80	110301026	18,36				
M 10 x 1,5	10,0	7,0	70	24	5,5	8,50	110301027	14,36	110302006	24,36	110305006	44,10
M 11 x 1,5	11,0	8,0	70	24	6,2	9,50	110301028	23,37				
M 12 x 1,75	12,0	9,0	75	29	7,0	10,20	110301029	18,70	110302007	31,71	110305007	54,30
M 14 x 2,0	14,0	11,0	80	30	9,0	12,00	110301030	21,36	110302008	35,38		
M 15 x 2,0	15,0	12,0	80	32	9,0	13,00	110301031	25,37				
M 16 x 2,0	16,0	12,0	80	32	9,0	14,00	110301032	26,70	110302009	44,06		
M 18 x 2,5	18,0	14,0	95	40	11,0	15,50	110301033	35,05	110302010	56,74		
M 20 x 2,5	20,0	16,0	95	40	12,0	17,50	110301034	40,06	110302011	63,43		
M 22 x 2,5	22,0	18,0	100	40	14,5	19,50	110301035	50,06	110302012	77,44		
M 24 x 3,0	24,0	18,0	110	50	14,5	21,00	110301036	60,08	110302013	96,80		
M 27 x 3,0	27,0	20,0	110	50	16,0	24,00	110301037	93,46	110302014	156,88		
M 30 x 3,5	30,0	22,0	125	56	18,0	26,50	110301038	126,84	110302015	193,59		
M 33 x 3,5	33,0	25,0	125	56	20,0	29,50	110301039	163,56	110302016	260,37		
M 36 x 4,0	36,0	28,0	150	63	22,0	32,00	110301040	196,93	110302017	313,77		
M 39 x 4,0	39,0	32,0	150	63	24,0	35,00	110301041	253,68	110302018	400,53		
M 42 x 4,5	42,0	32,0	150	63	24,0	37,50	110301042	283,73	110302019	520,20		
M 45 x 4,5	45,0	36,0	160	70	29,0	40,50	110301043	343,79	110302020	550,77		
M 48 x 5,0	48,0	36,0	180	75	29,0	43,00	110301044	487,35	110302021	781,10		
M 52 x 5,0	52,0	40,0	180	75	32,0	47,00	110301045	487,35	110302022	781,10		
M 56 x 5,5	56,0	45,0	200	85	35,0	50,50	110301046	617,52				
M 60 x 5,5	60,0	45,0	200	85	35,0	54,50	110301047	841,17				
M 64 x 6,0	64,0	50,0	220	90	39,0	58,00	110301048	934,60				
M 68 x 6,0	68,0	50,0	220	90	39,0	62,00	110301049	1168,21				
M 72 x 6,0	72,0	50,0	240	80	39,0	66,00	110301050	*				
M 76 x 6,0	76,0	50,0	240	80	39,0	70,00	110301051	*				
M 80 x 6,0	80,0	50,0	260	85	39,0	74,00	110301052	*				
M 84 x 6,0	84,0	50,0	260	85	39,0	78,00	110301053	*				
M 88 x 6,0	88,0	50,0	260	85	39,0	82,00	110301054	*				
M 90 x 6,0	90,0	50,0	260	85	39,0	84,00	110301055	*				
M 92 x 6,0	92,0	56,0	280	90	44,0	86,00	110301056	*				
M 96 x 6,0	96,0	56,0	280	90	44,0	90,00	110301057	*				
M 100 x 6,0	100,0	56,0	280	90	44,0	94,00	110301058	*				

* on request

JOGOS DE MACHOS -M

HSS perfil completo

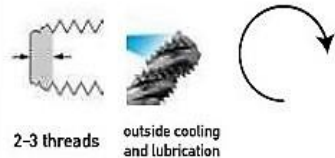
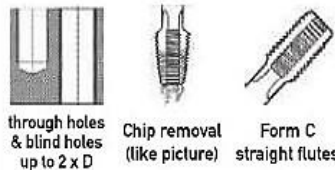
HSSE 1000N/mm²

M Metric coarse thread
ISO DIN 13

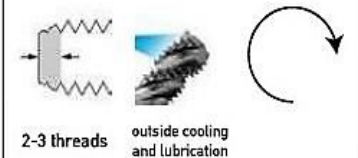
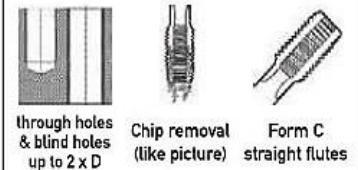
Efficient internal thread cutting.
The short structural type makes that tap usable by hand.

A Hand-Tap-Set includes 3 taps:
Taper Tap
Intermediate Tap
Finish Tap

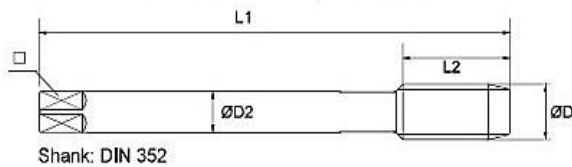
Hand Tap Sets
with conical profile



Hand Tap Sets **HSSE**
for higher demands



Hand Tap Sets



M	D1	D2	L1	L2	□		No.	€	No.	€
M 2 x 0,4	2,0	2,8	36	8	2,1	1,60	110313001	14,85		
M 2,5 x 0,45	2,5	2,8	40	9	2,1	2,05	110313002	14,85		
M 3 x 0,5	3,0	3,5	40	11	2,7	2,50	110313003	7,76	110304001	14,30
M 4 x 0,7	4,0	4,5	45	13	3,4	3,30	110313004	7,76	110304002	14,63
M 5 x 0,8	5,0	6,0	50	16	4,9	4,20	110313005	8,44	110304003	15,29
M 6 x 1,0	6,0	6,0	50	19	4,9	5,00	110313006	8,44	110304004	15,29
M 8 x 1,25	8,0	6,0	56	22	4,9	6,80	110313007	10,80	110304005	20,94
M 9 x 1,25	9,0	7,0	63	22	5,5	7,80	110313008	18,56		
M 10 x 1,5	10,0	7,0	70	24	5,5	8,50	110313009	14,51	110304006	27,27
M 11 x 1,5	11,0	8,0	70	24	6,2	9,50	110313010	23,63		
M 12 x 1,75	12,0	9,0	75	29	7,0	10,20	110313011	18,90	110304007	33,90
M 13 x 1,75	12,0	9,0	75	29	7,0	11,20	110313012	26,33		
M 14 x 2,0	14,0	11,0	80	30	9,0	12,00	110313013	21,60	110304008	38,57
M 16 x 2,0	16,0	12,0	80	32	9,0	14,00	110313014	27,00	110304009	49,87
M 18 x 2,5	18,0	14,0	95	40	11,0	15,50	110313015	35,44	110304010	63,17
M 19 x 2,5	18,0	14,0	95	40	11,0	16,50	110313016	48,93		
M 20 x 2,5	20,0	16,0	95	40	12,0	17,50	110313017	40,50	110304011	73,13
M 22 x 2,5	22,0	18,0	100	40	14,5	19,50	110313018	50,63	110304012	88,10
M 24 x 3,0	24,0	18,0	110	50	14,5	21,00	110313019	60,75	110304013	109,70
M 27 x 3,0	27,0	20,0	110	50	16,0	24,00	110313020	94,50	110304014	166,21
M 30 x 3,5	30,0	22,0	125	56	18,0	26,50	110313021	128,24	110304015	226,07
M 33 x 3,5	33,0	25,0	125	56	20,0	29,50	110313022	165,37		
M 36 x 4,0	36,0	28,0	150	63	22,0	32,00	110313023	199,13		
M 39 x 4,0	39,0	32,0	150	63	24,0	35,00	110313024	256,51		
M 42 x 4,5	42,0	32,0	150	63	24,0	37,50	110313025	286,88		

OUTRAS CONFIGURAÇÕES – FAVOR CONSULTAR

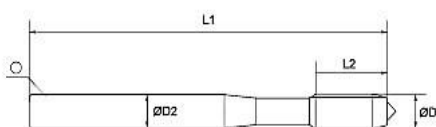
ON REQUEST ANY OTHER EXECUTION

MACHOS - MINI

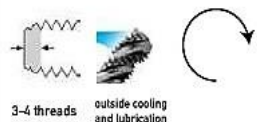
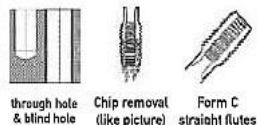
Mini Gewindebohrer - Form C (straight flutes) for through holes and blind holes

MINI Metric Mini-thread and Nano-thread

Efficient internal thread cutting in clock and watch industry as well as apparatus construction and fine mechanics.
For through and blind holes. Very break-proof.
Suitable for automatic lathe and tapping machine.



Machine Tap
for general use



MINI	D1	D2	L1	L2	material		No.	packing unit [PU]	€ per PU
					steel	brass			
M 0,3 x 0,08	0,3	1,0	22	2	0,2	0,24	370501001	10 pieces	*
M 0,35 x 0,09	0,4	1,0	22	2	0,3	0,28	370501002	10 pieces	*
M 0,4 x 0,1	0,4	1,0	22	2,5	0,3	0,32	370501003	10 pieces	*
M 0,5 x 0,125	0,5	1,0	22	3	0,4	0,40	370501004	10 pieces	*
M 0,6 x 0,15	0,6	1,0	22	3,5	0,5	0,49	370501005	10 pieces	*
M 0,7 x 0,175	0,7	1,5	25	4,5	0,6	0,57	370501006	10 pieces	*
M 0,8 x 0,2	0,8	1,5	25	5	0,7	0,65	370501007	10 pieces	*
M 0,9 x 0,225	0,9	1,5	25	5,5	0,8	0,73	370501008	10 pieces	*
M 1 x 0,15	1,0	1,5	25	6	0,9	0,89	370501009	10 pieces	*
M 1 x 0,2	1,0	1,5	25	6	0,9	0,85	370501010	10 pieces	*
M 1 x 0,25	1,0	1,5	25	6	0,8	0,81	370501011	10 pieces	*
M 1,1 x 0,25	1,1	1,5	25	7	0,9	0,91	370501012	10 pieces	*
M 1,2 x 0,15	1,2	1,5	25	7	1,1	1,09	370501013	10 pieces	*
M 1,2 x 0,2	1,2	1,5	25	7	1,1	1,05	370501014	10 pieces	*
M 1,2 x 0,25	1,2	1,5	25	7	1,0	1,01	370501015	10 pieces	*
M 1,3 x 0,3	1,3	1,5	25	8	1,1	1,07	370501016	10 pieces	*
M 1,4 x 0,2	1,4	2,0	30	9	1,3	1,25	370501017	10 pieces	*
M 1,4 x 0,25	1,4	2,0	30	9	1,2	1,21	370501018	10 pieces	*
M 1,4 x 0,3	1,4	2,0	30	8,5	1,2	1,17	370501019	10 pieces	*
M 1,5 x 0,3	1,5	2,0	30	10	1,3	1,27	370501020	10 pieces	*
M 1,6 x 0,2	1,6	2,0	30	10	1,5	1,45	370501021	10 pieces	*
M 1,6 x 0,25	1,6	2,0	30	10	1,4	1,41	370501022	10 pieces	*
M 1,6 x 0,35	1,6	2,0	30	10	1,3	1,30	370501023	10 pieces	*
M 1,7 x 0,35	1,7	2,0	30	10	1,4	1,40	370501024	10 pieces	*
M 1,8 x 0,2	1,8	2,0	30	10	1,7	1,65	370501025	10 pieces	*
M 1,8 x 0,25	1,8	2,0	30	10	1,6	1,61	370501026	10 pieces	*
M 1,8 x 0,35	1,8	2,0	30	10	1,5	1,50	370501027	10 pieces	*
M 2 x 0,2	2,0	3,0	35	13	1,9	1,85	370501028	10 pieces	*
M 2 x 0,25	2,0	3,0	35	13	1,8	1,81	370501029	10 pieces	*
M 2 x 0,4	2,0	3,0	35	13	1,7	1,65	370501030	10 pieces	*
M 2,2 x 0,45	2,2	3,0	35	13	1,8	1,80	370501031	10 pieces	*
M 2,3 x 0,4	2,3	3,0	35	13	2,0	1,95	370501032	10 pieces	*
M 2,4 x 0,45	2,4	3,0	40	15	2,0	2,00	370501033	10 pieces	*
M 2,5 x 0,45	2,5	3,0	40	15	2,1	2,10	370501034	10 pieces	*
M 2,6 x 0,45	2,6	3,0	40	15	2,2	2,20	370501035	10 pieces	*

* on request