



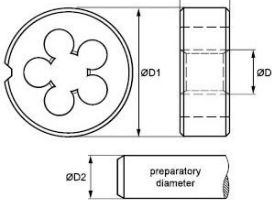
CAÇONETES MACHOS UNEF UNS UN8 UN12

CAÇONETES REDONDOS - HSS UNEF

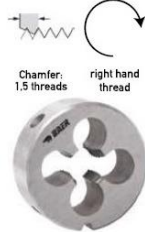
UNEF

Unified extra fine thread
ANSI B1.1

Round Dies



material: HSS 2A



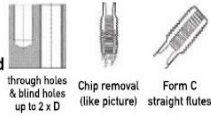
UNEF

UNEF	D	D1	H	D2	No.	€
UNEF No 12 x 32	5,49	20	7	5,39	171401001	14,48
UNEF 1/4 x 32	6,35	20	7	6,25	171401002	14,48
UNEF 5/16 x 32	7,94	25	9	7,84	171401003	18,38
UNEF 3/8 x 32	9,53	30	11	9,42	171401004	21,05
UNEF 7/16 x 28	11,11	30	11	11,00	171401005	21,05
UNEF 1/2 x 28	12,70	38	10	12,59	171401006	32,18
UNEF 9/16 x 24	14,29	38	10	14,17	171401007	32,18
UNEF 5/8 x 24	15,88	45	14	15,75	171401008	51,46
UNEF 11/16 x 24	17,46	45	14	17,33	171401009	51,46
UNEF 3/4 x 20	19,05	45	14	18,91	171401010	51,46
UNEF 13/16 x 20	20,64	55	16	20,50	171401011	60,70
UNEF 7/8 x 20	22,23	55	16	22,09	171401012	60,70
UNEF 15/16 x 20	23,81	55	16	23,67	171401013	60,70
UNEF 1" x 20	25,40	55	16	25,26	171401014	60,70
UNEF 1.1/16 x 18	26,99	65	18	26,84	171401015	96,90
UNEF 1.1/8 x 18	28,58	65	18	28,58	171401016	96,90
UNEF 1.3/16 x 18	30,23	65	18	30,16	171401017	96,90
UNEF 1.1/4 x 18	31,75	65	18	31,75	171401018	96,90
UNEF 1.5/16 x 18	33,34	65	18	33,34	171401019	96,90
UNEF 1.3/8 x 18	34,93	65	18	34,93	171401020	96,90
UNEF 1.7/16 x 18	36,51	75	20	36,51	171401021	122,51
UNEF 1.1/2 x 18	38,10	75	20	38,10	171401022	122,51

JOGOS DE MACHOS E MACHOS DE MAQUINA HSS UNEF

UNEF

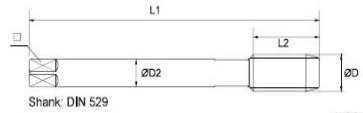
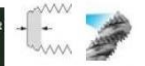
Unified extra fine thread
ANSI B1.1



material: HSSG 2B



to 900 N/mm² 27.1 HRC



Machine Taps Form C for through holes and blind holes

UNEF

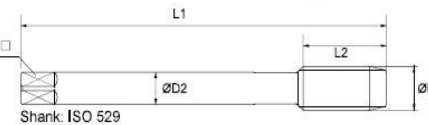
UNEF	D1	D2	L1	L2	No.	€	No.	€		
UNEF No 12 x 32	5,49	5,6	62	17	4,5	4,75	170313001	16,04	170501001	9,82
UNEF 1/4 x 32	6,35	6,3	66	19	5,0	5,60	170313002	18,04	170501002	8,77
UNEF 5/16 x 32	7,94	8,0	72	22	6,3	7,20	170313003	25,39	170501003	10,99
UNEF 3/8 x 32	9,53	10,0	80	24	8,0	8,80	170313004	30,07	170501004	12,51
UNEF 7/16 x 28	11,11	8,0	85	25	6,3	10,25	170313005	42,10	170501005	14,74
UNEF 1/2 x 28	12,70	9,0	89	29	7,1	11,80	170313006	47,45	170501006	14,74
UNEF 9/16 x 24	14,29	11,2	95	30	9,0	13,30	170313007	85,21	170501007	22,22
UNEF 5/8 x 24	15,88	12,5	102	32	10,0	14,90	170313008	85,21	170501008	22,68
UNEF 11/16 x 24	17,46	14,0	112	37	11,2	16,50	170313009	97,56	170501009	42,10
UNEF 3/4 x 20	19,05	14,0	112	37	11,2	17,75	170313010	97,56	170501010	42,10
UNEF 13/16 x 20	20,64	16,0	118	38	12,5	19,50			170501011	51,46
UNEF 7/8 x 20	22,23	16,0	118	38	12,5	21,00			170501012	51,46
UNEF 15/16 x 20	23,81	18,0	130	45	14,0	22,50			170501013	58,94
UNEF 1" x 20	25,40	16,0	130	45	14,0	24,25			170501014	58,94
UNEF 1.1/16 x 18	26,99	20,0	138	48	16,0	25,70			170501015	67,83
UNEF 1.1/8 x 18	28,58	20,0	138	48	16,0	27,25			170501016	67,83
UNEF 1.3/16 x 18	30,16	22,4	151	51	18,0	28,75			170501017	79,52
UNEF 1.1/4 x 18	31,75	22,4	151	51	18,0	30,50			170501018	79,52
UNEF 1.5/16 x 18	33,34	25,0	162	57	20,0	32,00			170501019	99,40
UNEF 1.3/8 x 18	34,93	25,0	162	57	20,0	33,50			170501020	99,40
UNEF 1.7/16 x 18	36,51	28,0	170	60	22,4	35,20			170501021	128,64
UNEF 1.1/2 x 18	38,10	28,0	170	60	22,4	36,80			170501022	128,64
UNEF 1.9/16 x 18	39,69	28,0	170	60	22,4	38,40			170501023	152,03
UNEF 1.5/8 x 18	41,28	28,0	170	60	22,4	40,00			170501024	152,03
UNEF 1.11/16 x 18	42,86	31,5	187	67	25,0	41,50			170501025	175,42
UNEF 1.3/4 x 18	44,45	31,5	187	67	25,0	43,00			170501026	175,42
UNEF 2" x 18	50,80	35,5	200	70	28,0	49,50			170501027	268,97

MACHOS DE MAQUINA UNS HSS - CAÇONETES REDONDOS - HSS UNS

UNS

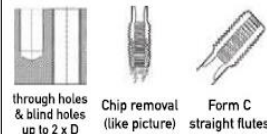
Unified thread with special threads per inch (TPI)

Tap for machine use in through hole and blind hole. The short lead-in chamfer makes that tap universal in application. The flutes can hold the most part of the chips.



Machine Taps

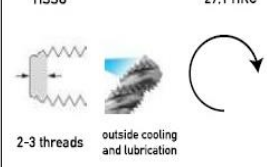
Form C for through holes and blind holes



material: HSSG 2B



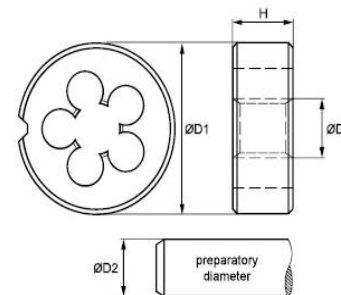
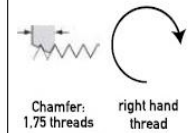
to 900 N/mm² 27.1 HRC



Round Dies for general use



material: HSS 2A



UNS

UNS	D1	D2	L1	L2	No.	€		
UNS 1/4 x 24	6,35	6,3	66	19	5,0	5,40	160501001	8,80
UNS 1/4 x 36	6,35	6,3	66	19	5,0	5,70	160501002	8,80
UNS 1/4 x 40	6,35	6,3	66	19	5,0	5,75	160501003	8,80
UNS 3/8 x 27	9,53	10,0	80	24	8,0	8,35	160501004	12,59
UNS 7/16 x 24	11,11	8,0	85	25	6,3	10,10	160501005	14,82
UNS 1/2 x 24	12,70	9,0	89	29	7,1	11,75	160501006	14,82
UNS 5/8 x 27	15,88	12,5	102	32	10,0	14,70	160501007	22,71
UNS 3/4 x 24	19,05	14,0	112	37	11,2	18,00	160501008	42,10
UNS 7/8 x 18	22,23	16,0	118	38	12,5	21,00	160501009	51,46
UNS 1" x 14	25,40	18,0	130	45	14,0	23,75	160501010	59,03

UNS

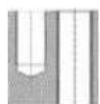
UNS	D	D1	H	D2	No.	€
UNS 1/4 x 24	6,35	20	7	6,24	161401001	37,80
UNS 1/4 x 36	6,35	20	5	6,26	161401002	37,80
UNS 1/4 x 40	6,35	20	5	6,27	161401003	37,80
UNS 3/8 x 27	9,53	30	11	9,41	161401004	*
UNS 7/16 x 24	11,11	30	11	11,00	161401005	62,48
UNS 1/2 x 24	12,70	38	10	12,59	161401006	63,53
UNS 5/8 x 27	15,88	45	14	15,76	161401007	104,79
UNS 7/8 x 18	22,23	55	16	22,08	161401008	194,25
UNS 1" x 14	25,40	55	16	25,23	161401009	194,25

* on request

JOGOS DE MACHOS E MACHOS DE MAQUINA HSS 8-UN

8-UN

Unified thread series with 8-threads per inch (TPI)



through holes & blind holes up to 2 x D



Chip removal (like picture)



Form C straight flutes



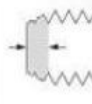
material: HSSG



2B



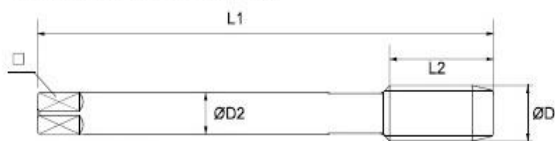
to 900 N/mm² 27.1 HRC



2-3 threads



outside cooling and lubrication



Shank: ISO 529

Hand Tap Sets



Machine Taps



8-UN

8-UN	D1	D2	L1	L2	□	✂	No.	€	No.	€
UN 1.1/16 x 8	26,99	20,0	138	48	16,0	23,90	180301001	336,00	180501001	67,83
UN 1.1/8 x 8	28,58	20,0	138	48	16,0	25,50	180301002	322,00	180501002	67,83
UN 1.3/16 x 8	30,16	22,4	151	51	18,0	27,10	180301003	371,28	180501003	79,52
UN 1.1/4 x 8	31,75	22,4	151	51	18,0	28,75	180301004	371,28	180501004	79,52
UN 1.5/16 x 8	33,34	25,0	162	57	20,0	30,30	180301005	393,75	180501005	100,23
UN 1.3/8 x 8	34,93	25,0	162	57	20,0	31,75	180301006	375,00	180501006	100,23
UN 1.1/2 x 8	38,10	28,0	170	60	22,4	35,00	180301007	472,00	180501007	129,19
UN 1.5/8 x 8	41,28	28,0	170	60	22,4	38,00	180301008	698,00	180501008	152,58
UN 1.3/4 x 8	44,45	31,5	187	67	25,0	41,50	180301009	698,00	180501009	178,21
UN 1.7/8 x 8	47,63	31,5	187	67	25,0	44,50	180301010	794,00	180501010	269,54
UN 2" x 8	50,80	35,5	200	70	28,0	47,75	180301011	962,00	180501011	269,54
UN 2.1/8 x 8	53,98	35,5	200	70	28,0	50,90	180301012	1063,65	180501012	534,59
UN 2.1/4 x 8	57,15	40,0	221	76	31,5	54,00	180301013	1099,63	180501013	534,59
UN 2.1/2 x 8	63,50	40,0	224	79	31,5	60,40	180301014	1634,33	180501014	779,60
UN 2.3/4 x 8	69,85	45,0	234	79	35,5	66,70	180301015	2529,45	180501015	857,59
UN 3" x 8	76,20	50,0	258	83	40,0	73,10	180301016	2752,67	180501016	963,41
UN 3.1/4 x 8	82,55	50,0	261	86	40,0	79,40	180301017	4364,85	180501017	963,41
UN 3.1/2 x 8	88,90	50,0	261	86	40,0	85,80	180301018	5257,24	180501018	1136,03
UN 3.3/4 x 8	95,25	56,0	279	89	45,0	92,10	180301019	7515,90	180501019	1391,63
UN 4" x 8	101,60	56,0	279	89	45,0	98,50	180301020	8499,75	180501020	1391,63

CAÇONETES HSS - 8-UN

8-UN

Unified thread series with 8-threads per inch (TPI)

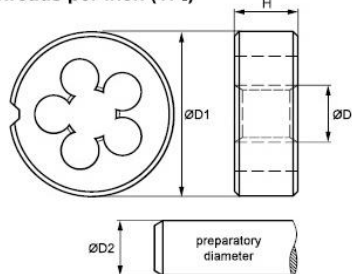


material: HSS 2A

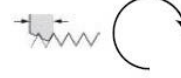


Chamfer: 1.75 threads right hand thread

Round Dies

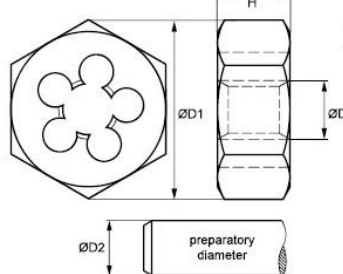


material: HSS medium



Chamfer: 1.5 threads right hand thread

Hexagon Die



8-UN

8-UN	D	D1	H	D2	No.	€
UN 1.1/8 x 8	28,58	65	25	28,33	181401001	242,03
UN 1.1/4 x 8	31,75	65	25	31,51	181401002	296,10
UN 1.3/8 x 8	34,93	65	25	34,68	181401003	273,00
UN 1.1/2 x 8	38,10	75	20	37,85	181401004	381,15
UN 1.3/4 x 8	44,45	90	22	44,20	181401005	567,00
UN 2" x 8	50,80	90	22	50,55	181401006	593,25

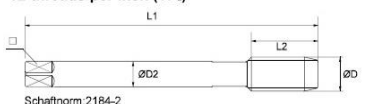
8-UN

8-UN	D	D1	H	D2	No.	€
UN 1.1/8 x 8	28,58	60	25	28,33	181501001	95,90
UN 1.1/4 x 8	31,75	60	25	31,51	181501002	95,90
UN 1.3/8 x 8	34,93	60	25	34,68	181501003	95,90
UN 1.1/2 x 8	38,10	60	25	37,85	181501004	174,25
UN 1.5/8 x 8	41,28	70	30	41,03	181501005	174,25
UN 1.3/4 x 8	44,45	85	36	44,20	181501006	174,25
UN 1.7/8 x 8	47,63	85	22	47,38	181501007	174,25
UN 2" x 8	50,80	85	22	50,55	181501008	174,25
UN 2.1/8 x 8	53,98	85	22		181501009	297,04
UN 2.1/4 x 8	57,15	100	22		181501010	297,04
UN 2.1/2 x 8	63,50	115	22		181501011	444,38

JOGOS DE MACHOS E MACHOS DE MAQUINA HSS 12-UN

12-UN

Unified thread series with 12-threads per inch (TPI)



Schaftnorm: 2184-2

Hand Tap Sets



Machine Taps



12-UN	D1	D2	L1	L2		No.	€	No.	€	
UN 1/2 x 12	12,70	9,0	75	25	7,0	10,65	190301001	299,25		
UN 5/8 x 12	15,88	12,0	80	25	9,0	13,80	190301002	357,00		
UN 11/16 x 12	17,46	14,0	80	25	11,0	15,40	190301003	399,00		
UN 3/4 x 12	19,05	14,0	80	25	11,0	17,00	190301004	441,00		
UN 13/16 x 12	20,64	16,0	80	25	12,0	18,60	190301005	451,50		
UN 7/8 x 12	22,23	18,0	80	25	14,5	20,20	190301006	452,55		
UN 15/16 x 12	23,81	18,0	90	25	14,5	21,80	190301007	452,55		
UN 1.1/16 x 12	26,99	20,0	90	28	16,0	24,90	190301008	473,55		
UN 1.3/16 x 12	30,16	22,0	90	28	18,0	28,10	190301009	550,20		
UN 1.5/16 x 12	33,34	28,0	125	32	22,0	31,30	190301010	584,85		
UN 1.7/16 x 12	36,51	28,0	125	32	22,0	34,50	190301011	762,30		
UN 1.9/8 x 12	41,28	32,0	125	32	24,0	39,20	190301012	976,50	190501001	148,52
UN 1.3/4 x 12	44,45	36,0	125	32	29,0	42,40	190301013	976,50	190501002	170,74
UN 1.7/8 x 12	47,63	36,0	140	32	29,0	45,60	190301014	1113,00	190501003	264,30
UN 2 x 12	50,80	40,0	140	32	32,0	48,75	190301015	1354,50	190501004	264,30
UN 2.1/8 x 12	53,98	35,5	200	70	28,0	51,90		190501005	522,74	
UN 2.1/4 x 12	57,15	40,0	221	76	31,5	55,10		190501006	522,74	
UN 2.1/2 x 12	63,50	40,0	224	79	31,5	61,50		190501007	760,14	
UN 2.3/4 x 12	69,85	45,0	234	79	35,5	67,80		190501008	836,15	
UN 3" x 12	76,20	50,0	258	83	40,0	74,20		190501009	929,70	
UN 3.1/4 x 12	82,55	50,0	261	86	40,0	80,50		190501010	929,70	
UN 3.1/2 x 12	88,90	50,0	261	86	40,0	86,90		190501011	1093,43	
UN 3.3/4 x 12	95,25	56,0	279	89	45,0	93,20		190501012	1344,85	
UN 4" x 12	101,60	56,0	279	89	45,0	99,60		190501013	1344,85	

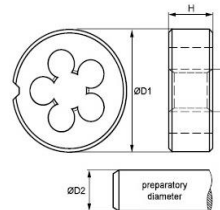
CAÇONETES HSS 12-UN

12-UN

Unified thread series with 12-threads per inch (TPI)



Round Dies



12-UN	D	D1	H	D2	No.	€
UN 1.1/16 x 12	26,99	65	18	26,80	191401001	215,43
UN 1.5/16 x 12	33,34	65	18	33,15	191401002	*
UN 1.5/8 x 12	41,28	75	20	41,09	191401003	409,73
UN 1.3/4 x 12	44,45	90	22	44,26	191401004	478,48
UN 2" x 12	50,80	90	22	50,61	191401005	*

* on request

Macho máquina rosca unificada ANSI B1.1

UNS - UN

ISO 529

Forma B

HSS-E

Tol. 2B



Diâmetro nominal D	L 1	L 2	D 2	Ø
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UNS					
UNS	1/4 x 24	66	19	6.3	5.0
UNS	1/4 x 36	66	19	6.3	5.0
UNS	1/4 x 40	66	19	6.3	5.0
UNS	3/8 x 27	80	24	10.0	8.0
UNS	7/16 x 24	85	25	8.0	6.3
UNS	1/2 x 24	89	29	9.0	7.1
UNS	5/8 x 27	102	32	12.5	10.0
UNS	3/4 x 24	112	37	14.0	11.2
UNS	7/8 x 18	118	38	16.0	12.5
UNS	1" x 14	130	45	18.0	14.0

UN					
UN	5/16 x 20	72	22	8.0	6.3
UN	5/16 x 28	72	22	8.0	6.3
UN	3/8 x 20	80	24	10.0	8.0
UN	3/8 x 28	80	24	10.0	8.0
UN	7/16 x 32	85	25	8.0	6.3
UN	1/2 x 32	89	29	9.0	7.1
UN	9/16 x 20	95	30	11.2	9.0
UN	9/16 x 28	95	30	11.2	9.0
UN	9/16 x 32	95	30	11.2	9.0
UN	5/8 x 20	102	32	12.5	10.0
UN	5/8 x 28	102	32	12.5	10.0
UN	11/16 x 20	112	37	14.0	11.2
UN	11/16 x 16	112	37	14.0	11.2
UN	1" x 32	130	45	18.0	14.0

OUTRAS CONFIGURAÇÕES – FAVOR CONSULTAR

ON REQUEST ANY OTHER EXECUTION