Hepyc CUTTING TOOL EXPERTS

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Machos de máquina / Tarauds machine / Machine taps (M-MF)

Entrada recta (Agujeros Ciegos y pasantes) / Entrée droite (trous borgnes et débouchants) / Straight flute (through and blind holes)

2102	HSSE	DIN 371			M DIN 13 · MF DIN 13 · Form. C · Tol. 6H · R	800 N/mm2	39
2101	HSSE	DIN 376/374			M DIN 13 · MF DIN 13 · Form. C · Tol. 6H · D	800 N/mm2	40
2102/5	HSSE	DIN 371			M DIN 13 · Form. C · Tol. 6H · LH · R	800 N/mm2	42
2101/5	HSSE	DIN 376/374			M DIN 13 · MF DIN 13 · Form. C · Tol. 6H · LH · D	800 N/mm2	42
2114	HSSE	DIN 371			M DIN 13 · MF DIN 13 · Form. A · Tol. 6H · R	800 N/mm2	43
2113	HSSE	DIN 376/374			M DIN 13 · MF DIN 13 · Form. A · Tol. 6H · D	800 N/mm2	43
2190	HSSE	DIN 371			M DIN 13 · Form. E · Tol. 6H · R · MF	CU	44
2191	HSSE	DIN 376			M DIN 13 · Form. E · Tol. 6H · D · MF	CU	44
2129	HSSE	DIN 371	NIT		M DIN 13 · Form. C · Tol. 6HX · R · MF	F	45
2128	HSSE	DIN 376	NIT		M DIN 13 · Form. C · Tol. 6HX · D · MF	F	45
2180	HSSE-PM	DIN 371	TICN		M DIN 13 · Form. C · Tol. 6HX · R · MF	F	46
2179	HSSE-PM	DIN 376	TICN		M DIN 13 · Form. C · Tol. 6HX · D · MF	F	46

Entrada Corregida (Agujeros pasantes) / Entrée corrigée (Trous débouchants) / Spiral point (through holes)

2104	HSSE	DIN 371			M DIN 13 · MF DIN 13 · Form. B "Gun" · Tol. 6H · R	800 N/mm2	47
2103	HSSE	DIN 376/374			M DIN 13 · MF DIN 13 · Form. B "Gun" · Tol. 6H · D	800 N/mm2	47
2111	HSSE	DIN 371-L			M DIN 13 · Form. B "Gun" · Tol. 6H · R	800 N/mm2	48
2110	HSSE	DIN 371			M DIN 13 · Form. B "Gun" · Tol. 6H +0,1 · R	800 N/mm2	48
2109	HSSE	DIN 376			M DIN 13 · Form. B "Gun" · Tol. 6H +0,1 · D	800 N/mm2	49
2168	HSSE	DIN 371			M DIN 13 · Form. B "Gun" · Tol. 6G · R	800 N/mm2	49
2169	HSSE	DIN 376			M DIN 13 · Form. B "Gun" · Tol. 6G · D	800 N/mm2	49

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2250	HSSE	DIN 371	VAP		M DIN 13	MF DIN 13	Form. B "Gun"	Tol. 6H		R	MF	800 N/mm2	50
2251	HSSE	DIN 376/374	VAP		M DIN 13	MF DIN 13	Form. B "Gun"	Tol. 6H		D	MF	800 N/mm2	50
2116	HSSE	DIN 371	TIN		M DIN 13		Form. B "Gun"	Tol. 6H		R	MF	800 N/mm2	51
2115	HSSE	DIN 376	TIN		M DIN 13		Form. B "Gun"	Tol. 6H		D	MF	800 N/mm2	51
2126	HSSE-PM	DIN 371	TICN		M DIN 13		Form. B "Gun"	Tol. 6H		R	MF	1100 N/mm2	52
2125	HSSE-PM	DIN 376/374	TICN		M DIN 13		Form. B "Gun"	Tol. 6H		D	MF	1100 N/mm2	52
2176	HSSE-PM	DIN 371	TICN		M DIN 13		Form. B "Gun"	Tol. 6HX		R	MF	1400 N/mm2	53
2175	HSSE-PM	DIN 376	TICN		M DIN 13		Form. B "Gun"	Tol. 6HX		D	MF	1400 N/mm2	53
2122	HSSE	DIN 371	VAP		M DIN 13		Form. B "Gun"	Tol. 6H		R	MF	INOX	54
2121	HSSE	DIN 376/374	VAP		M DIN 13		Form. B "Gun"	Tol. 6H		D	MF	INOX	54
2219	HSSE	DIN 371	TIN		M DIN 13		Form. B "Gun"	Tol. 6H		R	MF	INOX	55
2220	HSSE	DIN 376/374	TIN		M DIN 13		Form. B "Gun"	Tol. 6H		D	MF	INOX	55
2133	HSSE	DIN 371			M DIN 13		Form. B "Gun"	Tol. 6H		R	MF	AL	56
2132	HSSE	DIN 376			M DIN 13		Form. B "Gun"	Tol. 6H		D	MF	AL	56
2184	HSSE	DIN 371	CrN		M DIN 13		Form. B "Gun"	Tol. 6H		R	MF	AL	57
2183	HSSE	DIN 376	CrN		M DIN 13		Form. B "Gun"	Tol. 6H		D	MF	AL	57
2254	HSSE-PM	DIN 371 MULTI	HL		M DIN 13		Form. B "Gun"	Tol. 6HX		R	MF	1100 N/mm2	58
2255	HSSE-PM	DIN 371 MULTI	HL		M DIN 13		Form. B "Gun"	Tol. 6HX		D	MF	1100 N/mm2	58
2258	HSSE-PM	DIN 371 SYNCHRO	HL		M DIN 13		Form. B "Gun"	Tol. 6HX	CNC	R	MF	1100 N/mm2	59
2259	HSSE-PM	DIN 371 SYNCHRO	HL		M DIN 13		Form. B "Gun"	Tol. 6HX	CNC	D	MF	1100 N/mm2	59

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Forma Helicoidal (Agujeros ciegos) / Forme helicoïdale (Trous borgnes)/ Spiral fluted (Blind holes)

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2106	HSSE	DIN 371		M DIN 13	MF DIN 13	Form. C	Tol. 6H	35º	R	800 N/mm2	60
2105	HSSE	DIN 376/374		M DIN 13	MF DIN 13	Form. C	Tol. 6H	35º	D	800 N/mm2	60
2112	HSSE	DIN 371-L		M DIN 13		Form. C	Tol. 6H	35º	R	800 N/mm2	61
2166	HSSE	DIN 371		M DIN 13		Form. C	Tol. 6H +0,1	35º	R	800 N/mm2	61
2165	HSSE	DIN 376		M DIN 13		Form. C	Tol. 6H +0,1	35º	D	800 N/mm2	61
2170	HSSE	DIN 371		M DIN 13		Form. C	Tol. 6G	35º	R	800 N/mm2	62
2208	HSSE	DIN 376		M DIN 13		Form. C	Tol. 6G	35º	D	800 N/mm2	62
2108	HSSE	DIN 371		M DIN 13		Form. C	Tol. 6H	15º	R	800 N/mm2	63
2107	HSSE	DIN 376/374		M DIN 13		Form. C	Tol. 6H	15º	D	800 N/mm2	63
2252	HSSE	DIN 371	VAP	M DIN 13	MF DIN 13	Form. C	Tol. 6H	35º	R · MF	800 N/mm2	64
2253	HSSE	DIN 376/374	VAP	M DIN 13	MF DIN 13	Form. C	Tol. 6H	35º	D · MF	800 N/mm2	64
2118	HSSE	DIN 371	TIN	M DIN 13		Form. C	Tol. 6H	35º	R · MF	800 N/mm2	65
2117	HSSE	DIN 376/374	TIN	M DIN 13		Form. C	Tol. 6H	35º	D · MF	800 N/mm2	65
2124	HSSE-PM	DIN 371	TICN	M DIN 13		Form. C	Tol. 6H	35º	R · MF	1100 N/mm2	66
2123	HSSE-PM	DIN 376/374	TICN	M DIN 13		Form. C	Tol. 6H	35º	D · MF	1100 N/mm2	66
2178	HSSE-PM	DIN 371	TICN	M DIN 13		Form. C	Tol. 6HX	15º	R · MF	1400 N/mm2	67
2177	HSSE-PM	DIN 376	TICN	M DIN 13		Form. C	Tol. 6HX	15º	D · MF	1400 N/mm2	67
2120	HSSE	DIN 371	VAP	M DIN 13		Form. C	Tol. 6H	35º	R · MF	INOX	68
2119	HSSE	DIN 376/374	VAP	M DIN 13		Form. C	Tol. 6H	35º	D · MF	INOX	68

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2221	HSSE	DIN 371	TIN		M DIN 13		Form. C	Tol. 6H	35°	R	MF INOX	69
2222	HSSE	DIN 376/374	TIN		M DIN 13		Form. C	Tol. 6H	35°	D	MF INOX	69
2182	HSSE	DIN 371			M DIN 13		Form. C	Tol. 6H	45°	R	MF AL	70
2181	HSSE	DIN 376			M DIN 13		Form. C	Tol. 6H	45°	D	MF AL	70
2186	HSSE	DIN 371	CrN		M DIN 13		Form. C	Tol. 6H	45°	R	MF AL	71
2185	HSSE	DIN 376	CrN		M DIN 13		Form. C	Tol. 6H	45°	D	MF AL	71
2256	HSSE-PM	DIN 371 MULTI	HL		M DIN 13		Form. C	Tol. 6HX	45°	R	MF 1100 N/mm2	72
2257	HSSE-PM	DIN 376 MULTI	HL		M DIN 13		Form. C	Tol. 6HX	45°	D	MF 1100 N/mm2	72
2260	HSSE-PM	DIN 371 SYNCHRO	HL		M DIN 13	CNC	Form. C	Tol. 6HX	45°	R	MF 1100 N/mm2	73
2261	HSSE-PM	DIN 376 SYNCHRO	HL		M DIN 13	CNC	Form. C	Tol. 6HX	45°	D	MF 1100 N/mm2	73

Laminación / Tarauds à refouler / Forming taps

2188	HSSE-PM	DIN 371	TIN		M DIN 13		Form. C	Tol. 6HX	A>12%	R	MF 1100 N/mm2	74
2187	HSSE-PM	DIN 376	TIN		M DIN 13		Form. C	Tol. 6HX	A>12%	D	MF 1100 N/mm2	74
2214	HSSE-PM	DIN 371	TIN		M DIN 13		Form. C	Tol. 6HX	A>12%	R	MF 1100 N/mm2	75
2213	HSSE-PM	DIN 376	TIN		M DIN 13		Form. C	Tol. 6HX	A>12%	D	MF 1100 N/mm2	75
2216	HSSE-PM	DIN 371	TIN		M DIN 13		Form. C	Tol. 6GX	A>12%	R	MF 1100 N/mm2	76
2215	HSSE-PM	DIN 376	TIN		M DIN 13		Form. C	Tol. 6GX	A>12%	D	MF 1100 N/mm2	76
2218	HSSE-PM	DIN 371	TIN		M DIN 13		Form. C	Tol. 6GX	A>12%	R	MF 1100 N/mm2	77
2217	HSSE-PM	DIN 376	TIN		M DIN 13		Form. C	Tol. 6GX	A>12%	D	MF 1100 N/mm2	77

Otros / Autres / Others

2199	HSSE	DIN 357			M DIN 13	16-18h	Tol. 6H	R	800 N/mm2	78

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	2134	HSSE		NIT		M DIN 13, 16-18h, Tol. 6H, D	800 N/mm2	78
	2806	HSSE	DIN 13			M DIN 13, Tol. 6H	800 N/mm2	79
	1504	HSS	Hex			M DIN 13, Tol. 6H, 1/4"	800 N/mm2	79
	2248	HSS	ISO 529			M DIN 13, Form. B "Gun", Tol. 6H	800 N/mm2	80
	2249	HSS	ISO 529			M DIN 13, Form. C, Tol. 6H, 35º	800 N/mm2	80
N	2266	HSSE	JIS			M DIN 13, MF DIN 13, Form. B "Gun", Tol. 6H, D	800 N/mm2	81
N	2267	HSSE	JIS			M DIN 13, MF DIN 13, Form. C, Tol. 6H, 35º, D	800 N/mm2	81
N	2268	HSSE	JIS	VAP		M DIN 13, MF DIN 13, Form. B "Gun", Tol. 6H, D, MF	800 N/mm2	82
N	2269	HSSE	JIS	VAP		M DIN 13, MF DIN 13, Form. C, Tol. 6H, 35º, D, MF	800 N/mm2	82
N	2270	HSSE	JIS	TIN		M DIN 13, MF DIN 13, Form. B "Gun", Tol. 6H, D, MF	800 N/mm2	83
N	2271	HSSE	JIS	TIN		M DIN 13, MF DIN 13, Form. C, Tol. 6H, 35º, D, MF	800 N/mm2	83

Machos de máquina / Tarauds machine / Machine taps (UNC-UNF-UN-UNS-UNEF)

	2148	HSSE	DIN 371			UNC ANSI/ASME B1,1, Form. C, Tol. 2B, R	800 N/mm2	84
	2147	HSSE	DIN 376			UNC ANSI/ASME B1,1, Form. C, Tol. 2B, D	800 N/mm2	84
	2147/5	HSSE	DIN 376			UNC ANSI/ASME B1,1, Form. C, LH, D	800 N/mm2	84
	2150	HSSE	DIN 371			UNC ANSI/ASME B1,1, Form. B "Gun", Tol. 2B, R	800 N/mm2	85
	2149	HSSE	DIN 376			UNC ANSI/ASME B1,1, Form. B "Gun", Tol. 2B, D	800 N/mm2	85
N	2262	HSSE	DIN371	VAP		UNC ANSI/ASME B1,1, Form. B "Gun", Tol. 2B, R, MF	800 N/mm2	86
N	2263	HSSE		VAP		UNC ANSI/ASME B1,1, Form. B "Gun", Tol. 2B, D, MF	800 N/mm2	86
	2234	HSSE	DIN 371	TIN		UNC ANSI/ASME B1,1, Form. B "Gun", Tol. 2B, R, MF	800 N/mm2	87

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	2235	HSSE	DIN 376	TIN	UNC ANSI/ASME B1.1	Form. B "Gun"	Tol. 2B		D	MF	800 N/mm2	87
	2238	HSSE	DIN 371	VAP	UNC ANSI/ASME B1.1	Form. B "Gun"	Tol. 2B		R	MF	INOX	88
	2239	HSSE	DIN 376	VAP	UNC ANSI/ASME B1.1	Form. B "Gun"	Tol. 2B		D	MF	INOX	88
	2152	HSSE	DIN 371		UNC ANSI/ASME B1.1	Form. C	Tol. 2B	35°	R		800 N/mm2	89
	2151	HSSE	DIN 376		UNC ANSI/ASME B1.1	Form. C	Tol. 2B	35°	D		800 N/mm2	89
N	2264	HSSE	DIN 371	VAP	UNC ANSI/ASME B1.1	Form. C	Tol. 2B	35°	R	MF	800 N/mm2	90
N	2265	HSSE	DIN 371	VAP	UNC ANSI/ASME B1.1	Form. C	Tol. 2B	35°	D	MF	800 N/mm2	90
	2236	HSSE	DIN 371	TIN	UNC ANSI/ASME B1.1	Form. C	Tol. 2B	35°	R	MF	800 N/mm2	91
	2237	HSSE	DIN 376	TIN	UNC ANSI/ASME B1.1	Form. C	Tol. 2B	35°	D	MF	800 N/mm2	91
	2240	HSSE	DIN 371	VAP	UNC ANSI/ASME B1.1	Form. C	Tol. 2B	35°	R	MF	INOX	92
	2241	HSSE	DIN 376	VAP	UNC ANSI/ASME B1.1	Form. C	Tol. 2B	35°	D	MF	INOX	92
	2154	HSSE	DIN 371		UNF ANSI/ASME B1.1	Form. C	Tol. 2B		R		800 N/mm2	93
	2153	HSSE	DIN 374		UNF ANSI/ASME B1.1	Form. C	Tol. 2B		D		800 N/mm2	93
	2153/5	HSSE	DIN 374		UNF ANSI/ASME B1.1	Form. C	Tol. 2B	LH	D		800 N/mm2	94
	2156	HSSE	DIN 371		UNF ANSI/ASME B1.1	Form. B "Gun"	Tol. 2B		R		800 N/mm2	95
	2155	HSSE	DIN 374		UNF ANSI/ASME B1.1	Form. B "Gun"	Tol. 2B		D		800 N/mm2	95
	2158	HSSE	DIN 371		UNF ANSI/ASME B1.1	Form. C	Tol. 2B	35°	R		800 N/mm2	96
	2157	HSSE	DIN 374		UNF ANSI/ASME B1.1	Form. C	Tol. 2B	35°	D		800 N/mm2	96
	2189	HSSE	DIN 374		UN ANSI/ASME B1.1	Form. C	Tol. 2B		D		800 N/mm2	97
	2160	HSSE	DIN 374		UNEF ANSI/ASME B1.1	Form. C	Tol. 2B		D		800 N/mm2	97

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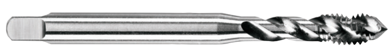
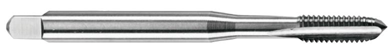
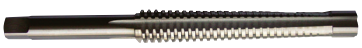
Machos de máquina / Tarauds machine / Machine taps (BSW-BSF)

2136	HSSE	DIN 371		BSW BS 84	Form. C		R	800 N/mm2	98
2135	HSSE	DIN 376		BSW BS 84	Form. C		D	800 N/mm2	98
2136/5	HSSE	DIN 371		BSW BS 84	Form. C	LH	R	800 N/mm2	99
2135/5	HSSE	DIN 376		BSW BS 84	Form. C	LH	D	800 N/mm2	99
2138	HSSE	DIN 371		BSW BS 84	Form. B "Gun"		R	800 N/mm2	100
2137	HSSE	DIN 376		BSW BS 84	Form. B "Gun"		D	800 N/mm2	100
2140	HSSE	DIN 371		BSW BS 84	Form. C	35°	R	800 N/mm2	101
2139	HSSE	DIN 376		BSW BS 84	Form. C	35°	D	800 N/mm2	101
2141	HSSE	DIN 371		BSF BS 84	Form. C		R	800 N/mm2	102
2142	HSSE	DIN 376		BSF BS 84	Form. C		D	800 N/mm2	102

Machos de máquina / Tarauds machine / Machine taps (G-Rc-NPT)

2144	HSSE	DIN 5156		G ISO 228	Form. C		D	800 N/mm2	103
2144/5	HSSE	DIN 5156		G ISO 228	Form. C	LH	D	800 N/mm2	103
2192	HSSE	DIN 5156		G ISO 228	Form. E		D	CU	104
2206	HSSE	DIN 5156		G ISO 228	Form. E	+0,1	D	CU	104
2145	HSSE	DIN 5156		G ISO 228	Form. B "Gun"		D	800 N/mm2	105
2146	HSSE	DIN 5156		G ISO 228	Form. C	35°	D	800 N/mm2	105
2159	HSSE	DIN 5156		Rc DIN 2999	Form. C		D	800 N/mm2	106
2164	HSSE	DIN 374		NPT ANSI/ASME B1.20.1	Form. C		D	800 N/mm2	106
2212	HSSE			Tr DIN 103		Tol. 7H		800 N/mm2	107

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Machos de máquina / Tarauds machine / Machine taps (TR-VG)

2212/5	HSSE			Tr DIN 103 · Tol. 7H · LH	800 N/mm2	107
2163	HSSE	DIN 40433		PG DIN 40430 · Form. C · D	800 N/mm2	108
2242	HSSE	DIN 371		VG BS 84 · Form. C · R	800 N/mm2	108
2243	HSSE	DIN 374		VG BS 84 · Form. C · D	800 N/mm2	108

Machos de mano / Tarauds à main / Hands taps

2301	HSS	DIN 352 / 2181		M DIN 13 · MF DIN 13 · Tol. 6H	800 N/mm2	109
2301/5	HSS	DIN 352		M DIN 13 · MF DIN 13 · Tol. 6H · LH	800 N/mm2	111
2302	HSS	DIN 352	TIN	M DIN 13 · Tol. 6H	800 N/mm2	111
2314	HSSE	DIN 352		M DIN 13 · Tol. 6HX	1100 N/mm2	112
2303	HSSE	DIN 352	VAP	M DIN 13 · Tol. 6HX	INOX	112
N 2324	HSSE-PM	DIN 352	TICN	M DIN 13 · Tol. 6HX	1400 N/mm2	113
2304	HSS	DIN 352		BSW BS 84 · LH 30°	800 N/mm2	114
2304/5	HSS	DIN 352		BSW BS 84	800 N/mm2	114
2305	HSS	DIN 2181		BSF BS 84	800 N/mm2	115
2306	HSS	DIN 5157		G ISO 228	800 N/mm2	115

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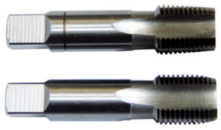
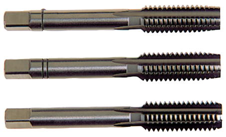
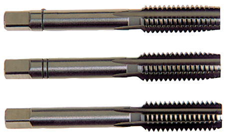
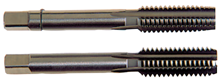
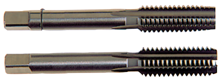
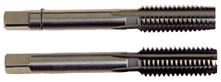
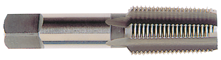
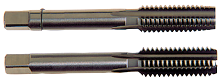
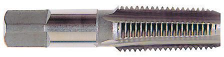
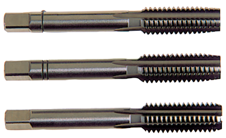
2306/5	HSS	DIN 5157		G ISO 228; LH 30°	800 N/mm2	116
2316	HSS	DIN 5157		G ISO 228	CU	116
2317	HSS	DIN 5157		G ISO 228; +0,1	CU	116
2307	HSS	DIN 352		UNC ANSI/ASME B1.1; Tol. 2B	800 N/mm2	117
2307/5	HSS	DIN 352		UNC ANSI/ASME B1.1; Tol. 2B; LH	800 N/mm2	117
2308	HSS	DIN 2181		UNF ANSI/ASME B1.1; Tol. 2B	800 N/mm2	118
2308/5	HSS	DIN 2181		UNF ANSI/ASME B1.1; Tol. 2B; LH	800 N/mm2	118
2315	HSS	DIN 2181		UN ANSI/ASME B1.1; Tol. 2B	800 N/mm2	119
2309	HSS	DIN 5157		Rc DIN 2999	800 N/mm2	119
2310	HSS	DIN 2181		UNEF ANSI/ASME B1.1; Tol. 2B	800 N/mm2	119
2312	HSS	DIN 40432		PG DIN 40430	800 N/mm2	120
2313	HSS	DIN 2181		NPT ANSI/ASME B1.20.1	800 N/mm2	120

Machos Perfil Completo / Taraud Profil Complet / Non Serial Form Taps

2321	HSS	DIN 352		M DIN 13; MF DIN 13; Tol. 6H	800 N/mm2	121

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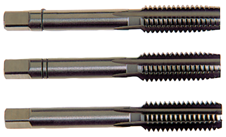
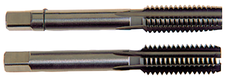
							Pág.
2322	HSS	DIN 352			UNC ANSI/ASME B1.1 · Tol. 2B	800 N/mm2	122
2323	HSS	DIN 2181			UNF ANSI/ASME B1.1 · Tol. 2B	800 N/mm2	122

Cojinetes / Filieres / Dies

2551	HSS	DIN EN22568			MF DIN 13 · Tol. 6g	800 N/mm2	123
2551/5	HSS	DIN EN22568			M DIN 13 · MF DIN 13 · Tol. 6g · LH	800 N/mm2	124
2514	HSSE	DIN EN22568	NIT		M DIN 13 · MF DIN 13 · Tol. 6g · 2,25 tpi · GUN	1100 N/mm2	125
2502	HSSE	DIN EN22568	VAP		M DIN 13 · Tol. 6g · 2 tpi · GUN	INOX	125
2552	HSS	DIN EN22568			BSW BS 84	800 N/mm2	126
2552/5	HSS	DIN EN22568			BSW BS 84 · LH	800 N/mm2	126
2553	HSS	DIN EN22568			BSF BS 84	800 N/mm2	127
2554	HSS	DIN EN24231			G ISO 228	800 N/mm2	127
2554/5	HSS	DIN EN24231			G ISO 228 · LH	800 N/mm2	127
2522	HSS	DIN EN24231			G ISO 228	CU	128
2521	HSS	DIN EN24231			G ISO 228 · -0,1 · GUN	CU	128
2555	HSS	DIN EN22568			UNC ANSI/ASME B1.1 · Tol. 2A	800 N/mm2	129
2555/5	HSS	DIN EN22568			UNC ANSI/ASME B1.1 · Tol. 2A · LH	800 N/mm2	129
2556	HSS	DIN EN22568			UNC ANSI/ASME B1.1 · Tol. 2A	800 N/mm2	130
2556/5	HSS	DIN EN22568			UNF ANSI/ASME B1.1 · Tol. 2A · LH	800 N/mm2	130
2557	HSS	DIN EN24230			R DIN 2999	800 N/mm2	131

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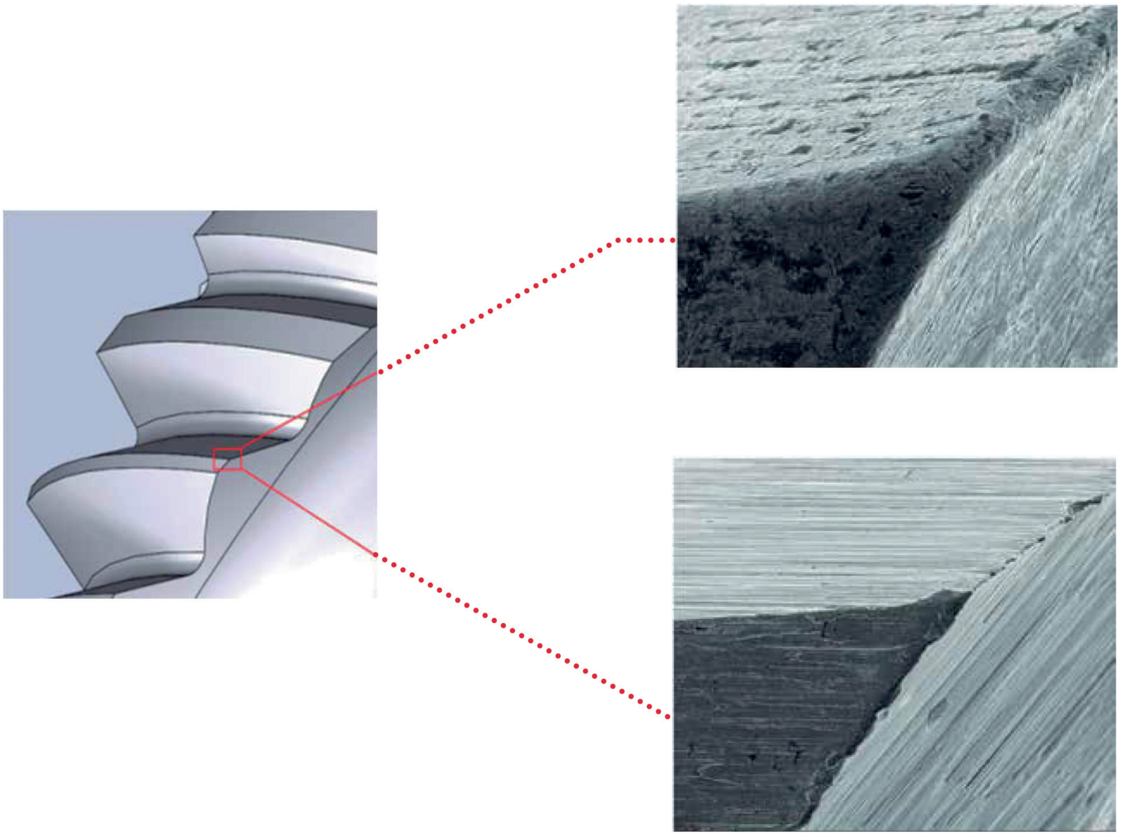
							Pág.
2558	HSS	DIN EN22568		UNEF ANSI/ASME B1.1	Tol. 2A	800 N/mm2	131
2570	HSS	DIN EN22568		UN ANSI/ASME B1.1	Tol. 2A	800 N/mm2	131
2560	HSS	DIN 40434		PG DIN 40430		800 N/mm2	132
2559	HSS	DIN EN24230		NPT ANSI/ASME B1.20.1		800 N/mm2	132

Micro Acabado > MAXI VENTAJAS
MICROFINISH > MAXI AVANTAGES
MICROFINISH > MAXI ADVANTAGES

¿Por qué conformarse con menos?
• La tecnología MICROFINISH consiste en que una vez el macho de roscar es rectificado, se limpia de rebabas y se redondean las aristas de corte.
• Se logra un mayor control y estabilidad del desgaste de la herramienta.
• Ello se traduce en un notable incremento de su rendimiento.
• Y en la mejora de los acabados de la rosca.

Pourquoi se satisfaire de peu?
• La technologie MICROFINISH agit après le surfaçage du taraud, qui est nettoyé des bavures et dont les arêtes de coupe sont arrondies.
• L'usure de l'outil est alors mieux contrôlée et plus stable.
• Cela se traduit par une augmentation significative de son rendement.
• Et une amélioration des finitions du filetage.

Why settle for less?
• With MICROFINISH technology once the thread of the tap is rectified, it is cleaned from burrs and the cutting edges are rounded.
• Greater control and stability of wear on the tool is achieved.
• This translates into a notable increase in performance.
• And improves the finishes of the thread.

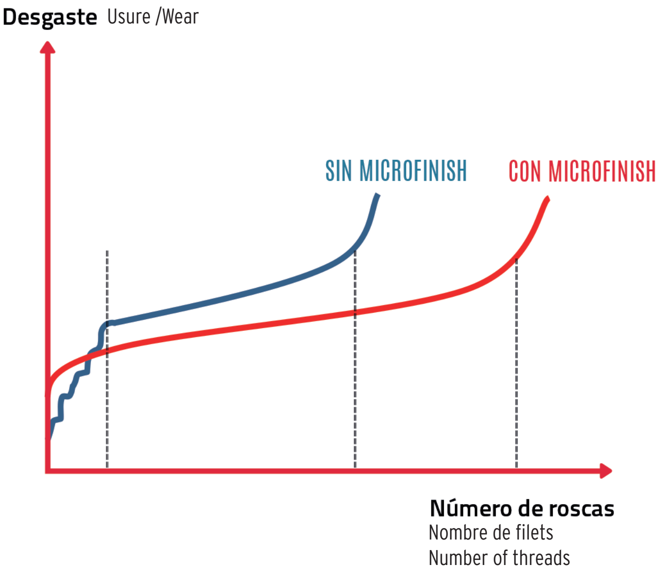


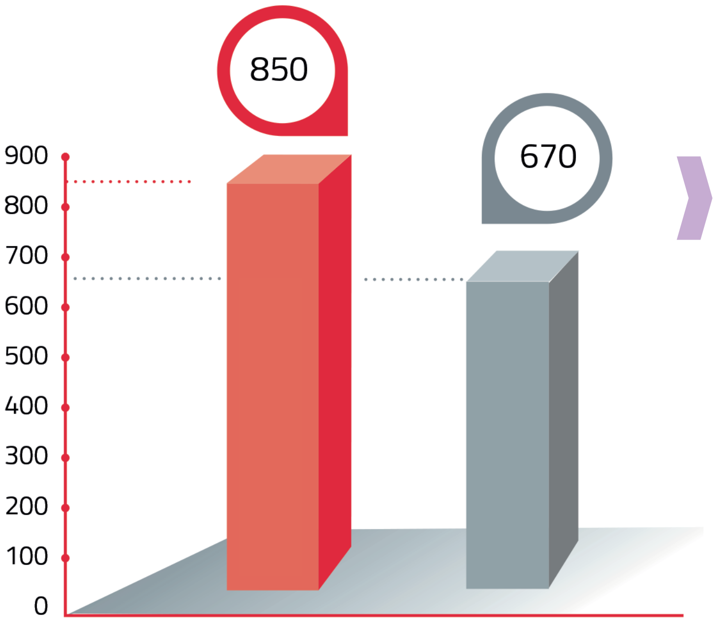
CON MICROFINISH
AVEC MICROFINISH/ WITH MICROFINISH

SIN MICROFINISH
SANS MICROFINISH / WITHOUT MICROFINISH

CON MICROFINISH
AVEC MICROFINISH/ WITH MICROFINISH

SIN MICROFINISH
SANS MICROFINISH / WITHOUT MICROFINISH





Rosca/Filet/Thread: M6 6H
Material/Matériau/Material: F114 (C45)
Profundidad/Profondeur/Depth: 12mm
Velocidad/Vitesse/Speed: 10 m/min

1. UNA ROSCA CON CALIDAD SUPERFICIAL SUPERIOR

Las roscas obtenidas tienen una calidad superficial superior, gracias a dos efectos:

• La geometría redondeada de forma constante a lo largo de todo el filo de corte del macho, permite un corte continuo y homogéneo de la rosca de la pieza.

• La menor rugosidad superficial de la rosca del macho reduce la fricción durante el roscado para obtener a su vez, una rosca con mejor calidad superficial.

2. MAYOR VIDA ÚTIL DE LA HERRAMIENTA

• Gracias a su nuevo acabado redondeado y a que el filo de corte se va desgastando de manera más controlada y constante, se evita el salto de partículas de cualquier forma y tamaño.

• Ello impide que se produzcan roturas prematuras con el uso.

1. UN FILET D'UNE QUALITÉ DE SURFACE SUPÉRIEURE

Les filets obtenus présentent une qualité de surface supérieure, grâce à deux effets :

• La géométrie arrondie de manière constante tout au long du fil de coupe du taraud apporte une coupe continue et homogène sur le filetage de la pièce.

• La plus faible rugosité de surface du taraud réduit la friction lors du taraudage, permettant ainsi d'obtenir un filet de meilleure qualité de surface.

2. UNE DURÉE DE VIE UTILE DE L'OUTIL PROLONGÉE

• Grâce à sa nouvelle finition arrondie et grâce à un fil de coupe qui s'use de manière mieux contrôlée et plus homogène, le décrochement de particules de toute forme et dimension est évité.

• Cela évite les ruptures prématurées à l'usage.

1. A THREAD WITH HIGHER SERVICE QUALITY

The threads obtained have a higher service quality, thanks to two effects:

• The constant rounded geometry over the entire cutting edge of the tap enables continuous and even cutting of the part's thread.

• The lower surface roughness of the thread on the tap reduces friction during threading, which obtains a thread with a higher surface quality.

2. LONGER SERVICE LIFE OF THE TOOL

• Thanks to its new rounded finish and that the cutting-edge is worn in a controlled and constant manner, the release of particles of any shape and size is avoided.

• This avoids premature breakage with use.

FORMULARIO MACHOS ESPECIALES

FICHE TECHNIQUE TARAUDS SPECIAUX / TECHNICAL ENQUIRY FOR SPECIAL TAPS

Fecha / Date: ....

Empresa / Entreprise / Company: .... Contacto / Contact: ....

Dirección / Adresse / Adress: .... Población / Ville / Town: ....

Tel / Fax: .... E-mail: ....

....

TRABAJO A REALIZAR / TRAVAIL DEMANDE / REQUESTED WORK

Material / Matière / Material .... Norma / Norme / Norm: ....

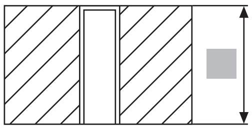
Dureza / Duréte / Hardness .... HB .... HRc Resistencia / Résistance / Resistance .... N/mm²

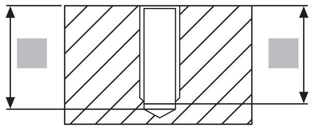
Tipo viruta:	☐ Corta	☐ Larga	☐ Polvo
Type copeau	Courte	Longue	Poussière
Shaving	Short	Long	Powder

Máquina / Machine .... Refrigerante / Réfrigérant / Coolant ....

Posición / Position:	☐ Horizontal	☐ Vertical	☐ V. Corte	☐ V. avance
			V. Coupe	Avance
			Cutting Speed	Feed

Agujero / Trou / Hole:

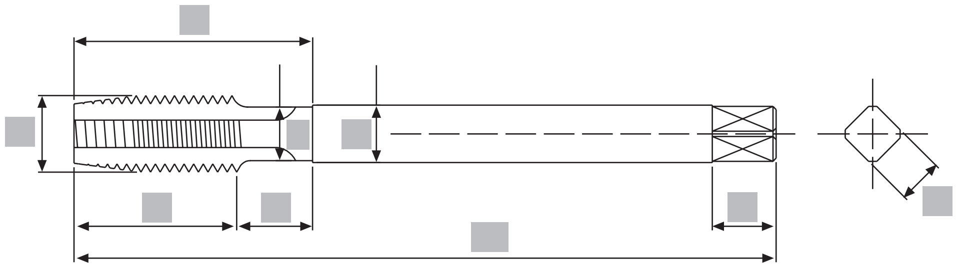




HERRAMIENTA / OUTIL / TOOL

Descripción / Description .... Tolerancia / Tolérance / Tolerance ....

Cantidad / Quantité / Quantity .... Número ranuras / Rainures / Grooves ....



Mango:	☐ Cilíndrico	☐ Weldon	☐ Cónico	☐ Rebajado
Queue:	Cylindrique	Weldon	Conique	Réduite
Shank:	Straight	Weldon	Taper	Reduced

Entrada:	☐ A	☐ B	☐ C	☐ D	☐ E	☐ Otra
Entrée:	A	B	C	D	E	Autres
Entry:	A	B	C	D	E	Others

Material / Matière / Material: ☐ HSS ☐ HSSE ☐ HM ☐ HSS-HM

Superficie / Surface:	☐ Brillante	☐ Recubrimiento
	Brillant	Revêtement
	Brilliant	Coating

COMENTARIOS / COMMENTAIRES/ COMMENTS: ....

....

....

....

FORMULARIO COJINETES ESPECIALES

FICHE TECHNIQUE FILIERES SPECIAUX / TECHNICAL ENQUIRY FOR SPECIAL DIES

Fecha / Date: ....

Empresa / Entreprise / Company: .... Contacto / Contact: ....

Dirección / Adresse / Adress: .... Población / Ville / Town: ....

Tel / Fax: .... E-mail: ....

....

TRABAJO A REALIZAR / TRAVAIL DEMANDE / REQUESTED WORK

Material / Matière / Material .... Norma / Norme / Norm: ....

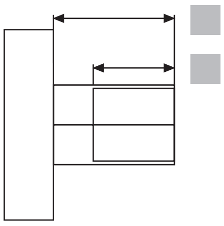
Dureza / Duréte / Hardness .... HB .... HRc Resistencia / Résistance / Resistance .... N/mm²

Tipo viruta: / Type copeau / Shaving
- ☐ Corta / Courte / Short
- ☐ Larga / Longue / Long
- ☐ Polvo / Poussière / Powder

Máquina / Machine .... Refrigerante / Réfrigérant / Coolant ....

Posición / Position: ☐ Horizontal ☐ Vertical ☐ V. Corte / V. Coupe / Cutting Speed ☐ V. avance / Avance / Feed

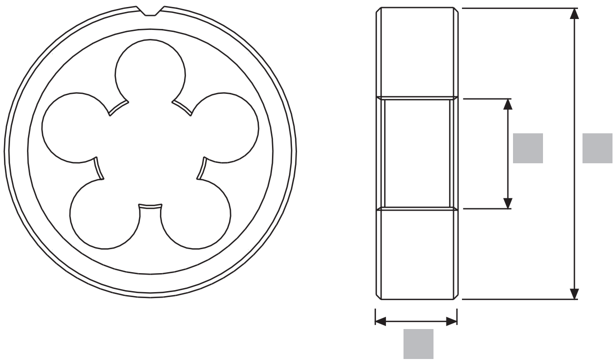
Eje / Axe / Axis:



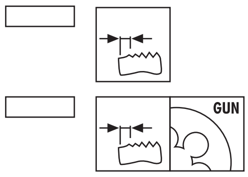
HERRAMIENTA / OUTIL / TOOL

Descripción / Description .... Tolerancia / Tolérance / Tolerance ....

Cantidad / Quantité / Quantity .... Número ranuras / Rainures / Grooves ....



Entrada / Entrée / Entry



Material / Matière / Material: ☐ HSS ☐ HSSE ☐ HM ☐ HSS-HM

Superficie / Surface: ☐ Brillante / Brillant / Brilliant ☐ Recubrimiento / Revêtement / Coating

COMENTARIOS / COMMENTAIRES/ COMMENTS: ....

....

....

....

Servicio de Herramienta Especial - Service Outils Spéciaux - Special Tools Service
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TABLA DE APLICACIONES

GUIDE D'APPLICATION / APPLICATION GUIDE

ENTRADA RECTA / ENTRÉE DROITE / STRAIGHT FRUTE

Prof	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd
Form.	C(2-3)	C(2-3)	C(2-3)	C(2-3)	A(6-8)	A(6-8)	E(1,2-2)	E(1,2-2)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)
Ejec.			LH	LH											LH			LH	
Tol.	6H	6H	6H	6H	6H	6H	6H	6H	6HX	6HX	6HX	6HX	2B	2B	2B	2B	2B	2B	2B
Mat.	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE-PM	HSSE-PM	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
Rec									NIT	NIT	TICN	TICN							
Rosca	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	UNC	UNC	UNC	UNF	UNF	UNF	UN
Ref.	2102	2101	2102/5	2101/5	2114	2113	2190	2191	2129	2128	2180	2179	2148	2147	2147/5	2154	2153	2153/5	2189
MF							MF	MF	MF	MF	MF	MF							
Mat.	Vc (m/min)																		
1.1	15-25	15-25	15-25	15-25	15-25	15-25							15-25	15-25	15-25	15-25	15-25	15-25	15-25
1.2	10-20	10-20	10-20	10-20	10-20	10-20							10-20	10-20	10-20	10-20	10-20	10-20	10-20
1.3	12-18	12-18	12-18	12-18	12-18	12-18							12-18	12-18	12-18	12-18	12-18	12-18	12-18
1.4	10-15	10-15	10-15	10-15	10-15	10-15							10-15	10-15	10-15	10-15	10-15	10-15	10-15
1.5																			
1.6																			
1.7																			
1.8																			
2.1																			
2.2																			
2.3																			
2.4																			
3.1									10-15	10-15	15-30	15-30							
3.2									6-12	6-12	10-20	10-20							
3.3	10-15	10-15	10-15	10-15	10-15	10-15							10-15	10-15	10-15	10-15	10-15	10-15	10-15
3.4																			
4.1																			
4.2																			
4.3																			
5.1																			
5.2																			
5.3																			
6.1																			
6.2							25-35	25-35	25-35	25-35	35-50	35-50							
6.3	15-20	15-20	15-20	15-20	15-20	15-20							15-20	15-20	15-20	15-20	15-20	15-20	15-20
6.4							25-35	25-35	25-35	25-35	35-50	35-50							
6.5	10-15	10-15	10-15	10-15	10-15	10-15							10-15	10-15	10-15	10-15	10-15	10-15	10-15
7.1																			
7.2																			
7.3																			
7.4																			
8.1																			
8.2																			

Optima / Optimun   Alternativo / Alternative

TABLA DE APLICACIONES

GUIDE D'APPLICATION / APPLICATION GUIDE

<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd	<1,5xd
C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	E(1,2-2)	E(1,2-2)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)
				LH	LH				LH						LH			
2B	2B										+0,1			7H	7H			
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
UNS	UNEF	BSW	BSW	BSW	BSW	BSF	BSF	BSP	BSP	BSP	BSP	BSPT	NPT	TR	TR	PG	VG	VG
2143	2160	2136	2135	2136/5	2135/5	2141	2142	2144	2144/5	2192	2206	2159	2164	2212	2212/5	2163	2242	2243
Vc (m/min)																		
15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25			10-15	10-15	3-8	3-8	15-25	15-25	15-25
10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20			7-14	7-14	2-6	2-6	10-20	10-20	10-20
12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18			8-12	8-12	2-6	2-6	12-18	12-18	12-18
10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15			7-10	7-10	1-5	1-5	10-15	10-15	10-15
10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15			7-10	7-10			10-15	10-15	10-15
										25-35	25-35							
15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20			10-15	10-15	2-6	2-6	15-20	15-20	15-20
										25-35	25-35							
10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15			7-10	7-10	2-6	2-6	10-15	10-15	10-15
														2-6				

TABLA DE APLICACIONES

GUIDE D'APPLICATION / APPLICATION GUIDE

ENTRADA CORREGIDA / ENTRÉE CORRIGÉE / SPIRAL POINT

Prof	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	2xd	2xd	3xd	3xd	3xd
Form.	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)
Ejec.	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN
Tol.	6H	6H	6H	6H+01	6H+0,1	6G	6G	6H	6H	6H	6H	6H	6H	6HX	6HX	6H	6H	6H
Mat.	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE	HSSE	HSSE
Rec								VAP	VAP	TIN	TIN	TICN	TICN	TICN	TICN	VAP	VAP	TIN
Rosca	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF
Ref.	2104	2103	2111	2110	2109	2168	2169	2250	2251	2116	2115	2126	2125	2176	2175	2122	2121	2219
MF								MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF
Mat.	Vc (m/min)																	
1.1	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	20-30					15-25	15-25	20-30
1.2	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	15-25					10-20	10-20	15-25
1.3	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18	15-25					12-18	12-18	15-25
1.4	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	12-18	10-15	10-15					
1.5												6-10	6-10	6-10	6-10			
1.6												4-6	4-6	4-6	4-6			
1.7																		
1.8																		
2.1	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	9-12					7-10	7-10	10-15
2.2	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	6-10					5-8	5-8	10-15
2.3																5-8	5-8	10-15
2.4												6-12	6-12					6-10
3.1																		
3.2																		
3.3	10-15	10-15	10-15	10-15	10-15	10-15	10-15			10-15	15-20							
3.4												10-20	10-20	10-20	10-20			
4.1																10-15	10-15	20-30
4.2												6-8	6-8	6-8	6-8			
4.3												4-6	4-6	4-6	4-6			
5.1																		
5.2																		
5.3																		
6.1																6-8	6-8	
6.2																		
6.3	15-20	15-20	15-20	15-20	15-20	15-20	15-20			15-20	20-25							
6.4																		
6.5	10-15	10-15	10-15	10-15	10-15	10-15	10-15			10-15	15-20							
7.1																		
7.2	10-15	10-15	10-15	10-15	10-15	10-15	10-15			10-15	12-18							
7.3																		
7.4																		
8.1	10-15	10-15	10-15	10-15	10-15	10-15	10-15			10-15	12-18							
8.2												10-15	10-15	10-15	10-15			

Optima / Optimun   Alternativo / Alternative

TABLA DE APLICACIONES

GUIDE D'APPLICATION / APPLICATION GUIDE

3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd
B(3,5-5)	B(3,5-5)-AZ	B(3,5-5)-AZ	B(3,5-5)-AZ	B(3,5-5)-AZ	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)	B(3,5-5)
GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN	GUN
6H	6H	6H	6H	6H	6HX	6HX	6HX	6HX	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B			
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
TIN			CrN	CrN	HL	HL	HL	HL			VAP	VAP	TIN	TIN	VAP	VAP					
M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	UNC	UNC	UNC	UNC	UNC	UNC	UNC	UNC	UNF	UNF	BSW	BSW	BSP
2220	2133	2132	2184	2183	2254	2255	2258	2259	2150	2149	2262	2263	2234	2235	2238	2239	2156	2155	2138	2137	2145
MF	MF	MF	MF	MF	MF	MF	MF	MF			MF	MF	MF	MF	MF	MF					
		Vc (m/min)																			
20-30					20-40	20-40	20-50	20-50	15-25	15-25	15-25	15-25	20-30	20-30	15-25	15-25	15-25	15-25	15-25	15-25	15-25
15-25					20-40	20-40	20-50	20-50	10-20	10-20	10-20	10-20	15-25	15-25	10-20	10-20	10-20	10-20	10-20	10-20	10-20
15-25					15-40	15-40	15-40	15-40	12-18	12-18	12-18	12-18	15-25	15-25	12-18	12-18	12-18	12-18	12-18	12-18	12-18
					15-30	15-30	15-30	15-30	10-15	10-15	10-15	10-15	12-18	12-18			10-15	10-15	10-15	10-15	10-15
					10-20	10-20	10-20	10-20													
					5-10	5-10															
10-15					5-15	5-15	5-15	5-15	7-10	7-10	7-10	7-10	9-12	9-12	7-10	7-10	7-10	7-10	7-10	7-10	7-10
10-15					5-15	5-15	5-15	5-15	5-8	5-8	5-8	5-8	6-10	6-10	5-8	5-8	5-8	5-8	5-8	5-8	5-8
10-15					5-10	5-10	5-10	5-10							5-8	5-8					
6-10					5-10	5-10															
					15-25	15-25															
					10-20	10-20															
					15-25	15-25	15-25	15-25	10-15	10-15	10-15	10-15	15-20	15-20			10-15	10-15	10-15	10-15	10-15
					10-20	10-20	10-20	10-20													
20-30					5-15	5-15									10-15	10-15					
	6-8	6-8	8-12	8-12	10-30	10-30	20-30	20-30							6-8	6-8					
					10-30	10-30															
					10-30	10-30	20-30	20-30	15-20	15-20	15-20	15-20	20-25	20-25			15-20	15-20	15-20	15-20	15-20
					10-30	10-30															
					10-30	10-30	20-30	20-30	10-15	10-15	10-15	10-15	15-20	15-20			10-15	10-15	10-15	10-15	10-15
	10-20	10-20	12-18	12-18	10-30	10-30															
	10-15	10-15	12-18	12-18	10-30	10-30	20-30	20-30	10-15	10-15	10-15	10-15	12-18	12-18			10-15	10-15	10-15	10-15	10-15
					10-30	10-30															
	10-20	10-20	12-18	12-18	10-30	10-30															
	10-15	10-15	12-18	12-18					10-15	10-15	10-15	10-15	12-18	12-18			10-15	10-15	10-15	10-15	10-15

TABLA DE APLICACIONES

GUIDE D'APPLICATION / APPLICATION GUIDE

FORMA HELICOIDAL / FORME HELICOIDAL / SPIRAL FLUTED

Prof	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	2xd	2xd	3xd	3xd	3xd
Form.	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)
Ejec.	R35°	R35°	R35°	R35°	R35°	R35°	R35°	R15°	R15°	R35°	R35°	R35°	R35°	R35°	R35°	R15°	R15°	R35°	R35°	R35°
Tol.	6H	6H	6H	6H+01	6H+0,1	6G	6G	6H	6H	6H	6H	6H	6H	6H	6H	6HX	6HX	6H	6H	6H
Mat.	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE	HSSE	HSSE
Rec										VAP	VAP	TIN	TIN	TICN	TICN	TICN	TICN	VAP	VAP	TIN
Rosca	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF
Ref.	2106	2105	2112	2166	2165	2170	2208	2108	2107	2252	2253	2118	2117	2124	2123	2178	2177	2120	2119	2221
MF										MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF
Mat.	Vc (m/min)																			
1.1	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	20-30	20-30					15-25	15-25	20-30
1.2	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20	15-25	15-25					10-20	10-20	15-25
1.3	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18	15-25	15-25					12-18	12-18	15-25
1.4	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	12-18	12-18	10-15	10-15					
1.5														6-10	6-10	6-10	6-10			
1.6														4-6	4-6	4-6	4-6			
1.7																				
1.8																				
2.1	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	9-12	9-12					7-10	7-10	10-15
2.2	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	6-10	6-10					5-8	5-8	10-15
2.3																		5-8	5-8	10-15
2.4														6-12	6-12					6-10
3.1																				
3.2																				
3.3	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15			15-20	15-20							
3.4														10-20	10-20	10-20	10-20			
4.1																		10-15	10-15	20-30
4.2														6-8	6-8	6-8	6-8			
4.3														4-6	4-6	4-6	4-6			
5.1																				
5.2																				
5.3																				
6.1																		6-8	6-8	
6.2																				
6.3	15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20			20-25	20-25							
6.4																				
6.5	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15			15-20	15-20							
7.1																				
7.2	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15			12-18	12-18							
7.3																				
7.4																				
8.1	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15			12-18	12-18							
8.2														10-15	10-15	10-15	10-15			

Optima / Optimun   Alternativo / Alternative

TABLA DE APLICACIONES

GUIDE D'APPLICATION / APPLICATION GUIDE

3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd	3xd
C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)
R35°	R45°	R45°	R45°	R45°	R45°	R45°	R45°	R45°	R35°	R35°	R35°	R35°	R35°	R35°	R35°	R35°	R35°	R35°	R35°	R35°	R35°
6H	6H	6H	6H	6H	6HX	6HX	6HX	6HX	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B			
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
TIN			CrN	CrN	HL	HL	HL	HL			VAP	VAP	TIN	TIN	VAP	VAP					
M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	M-MF	UNC	UNC	UNC	UNC	UNC	UNC	UNC	UNC	UNF	UNF	BSW	BSW	BSP
2222	2182	2181	2186	2185	2256	2257	2260	2261	2152	2151	2264	2265	2236	2237	2240	2241	2158	2157	2140	2139	2146
MF	MF	MF	MF	MF	MF	MF	MF	MF			MF	MF	MF	MF	MF	MF					
Vc (m/min)																					
20-30					20-40	20-40	20-50	20-50	15-25	15-25	15-25	15-25	20-30	20-30	15-25	15-25	15-25	15-25	15-25	15-25	15-25
15-25					20-40	20-40	20-50	20-50	10-20	10-20	10-20	10-20	15-25	15-25	10-20	10-20	10-20	10-20	10-20	10-20	10-20
15-25					15-40	15-40	15-40	15-40	12-18	12-18	12-18	12-18	15-25	15-25	12-18	12-18	12-18	12-18	12-18	12-18	12-18
					15-30	15-30	15-30	15-30	10-15	10-15	10-15	10-15	12-18	12-18			10-15	10-15	10-15	10-15	10-15
					10-20	10-20	10-20	10-20													
					5-10	5-10															
10-15					5-15	5-15	5-15	5-15	7-10	7-10	7-10	7-10	9-12	9-12	7-10	7-10	7-10	7-10	7-10	7-10	7-10
10-15					5-15	5-15	5-15	5-15	5-8	5-8	5-8	5-8	6-10	6-10	5-8	5-8	5-8	5-8	5-8	5-8	5-8
10-15					5-10	5-10	5-10	5-10							5-8	5-8					
6-10					5-10	5-10															
					15-25	15-25															
					10-20	10-20															
					15-25	15-25	15-25	15-25	10-15	10-15	10-15	10-15	15-20	15-20			10-15	10-15	10-15	10-15	10-15
					10-20	10-20	10-20	10-20													
20-30					5-15	5-15									10-15	10-15					
	6-8	6-8	8-12	8-12	10-30	10-30	20-30	20-30							6-8	6-8					
					10-30	10-30															
					10-30	10-30	20-30	20-30	15-20	15-20	15-20	15-20	20-25	20-25			15-20	15-20	15-20	15-20	15-20
					10-30	10-30															
					10-30	10-30	20-30	20-30	10-15	10-15	10-15	10-15	15-20	15-20			10-15	10-15	10-15	10-15	10-15
	10-20	10-20	12-18	12-18	10-30	10-30															
	10-15	10-15	12-18	12-18	10-30	10-30	20-30	2 0-30	10-15	10-15	10-15	10-15	12-18	12-18			10-15	10-15	10-15	10-15	10-15
					10-30	10-30															
	10-20	10-20	12-18	12-18	10-30	10-30															
	10-15	10-15	12-18	12-18					10-15	10-15	10-15	10-15	12-18	12-18			10-15	10-15	10-15	10-15	10-15

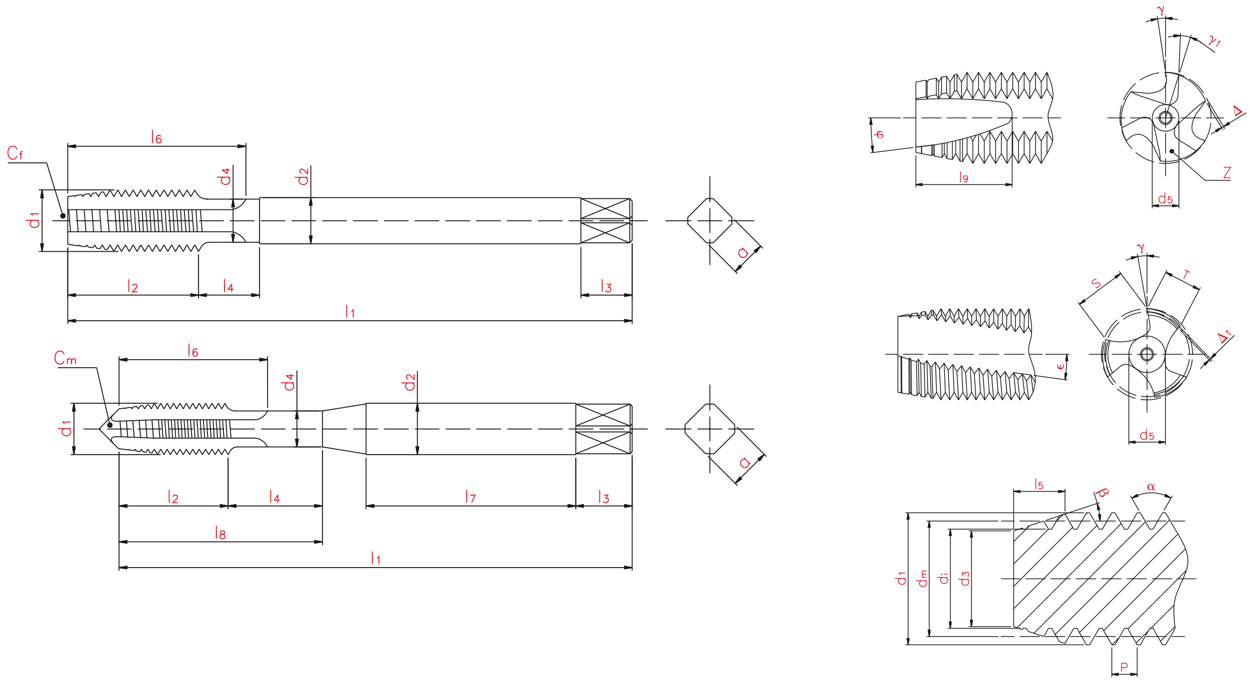
TABLA DE APLICACIONES
GUIDE D'APPLICATION / APPLICATION GUIDE

LAMINACIÓN / Á REFOULER / FORMING TAPS

Prof	1,5xd	1,5xd	3xd	3xd	1,5xd	1,5xd	3xd	3xd	1,5xd	1,5xd
Form.	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	C(2-3)	(16-18)	(16-18)
Ejec.	A>12%	A>12%	A>12%	A>12%	A>12%	A>12%	A>12%	A>12%		
Tol.	6HX	6HX	6HX	6HX	6GX	6GX	6GX	6GX	6H	6H
Mat.	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE-PM	HSSE	HSSE
Rec	TIN	TIN	TIN	TIN	TIN	TIN	TIN	TIN		NIT
Rosca	M	M	M	M	M	M	M	M	M	M
Ref.	2188	2187	2214	2213	2216	2215	2218	2217	2199	2134
MF	MF	MF	MF	MF	MF	MF	MF	MF		
Mat.	Vc (m/min)									
1.1	25-45	25-45	25-45	25-45	25-45	25-45	25-45	25-45		
1.2	20-40	20-40	20-40	20-40	20-40	20-40	20-40	20-40	10-20	10-20
1.3	15-35	15-35	15-35	15-35	15-35	15-35	15-35	15-35	12-18	12-18
1.4	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25	10-15	10-15
1.5										
1.6										
1.7										
1.8										
2.1	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25		
2.2	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20		
2.3	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20		
2.4										
3.1										
3.2										
3.3										
3.4										
4.1	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20		
4.2										
4.3										
5.1										
5.2										
5.3										
6.1	15-30	15-30	15-30	15-30	15-30	15-30	15-30	15-30		
6.2										
6.3	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30		
6.4										
6.5	15-25	15-25	15-25	15-25	15-25	15-25	15-25	15-25		
7.1	20-40	20-40	20-40	20-40	20-40	20-40	20-40	20-40		
7.2	15-30	15-30	15-30	15-30	15-30	15-30	15-30	15-30		
7.3	10-20	10-20	10-20	10-20	10-20	10-20	10-20	10-20		
7.4	20-40	20-40	20-40	20-40	20-40	20-40	20-40	20-40		
8.1										
8.2										

Optima / Optimun — Alternativo / Alternative

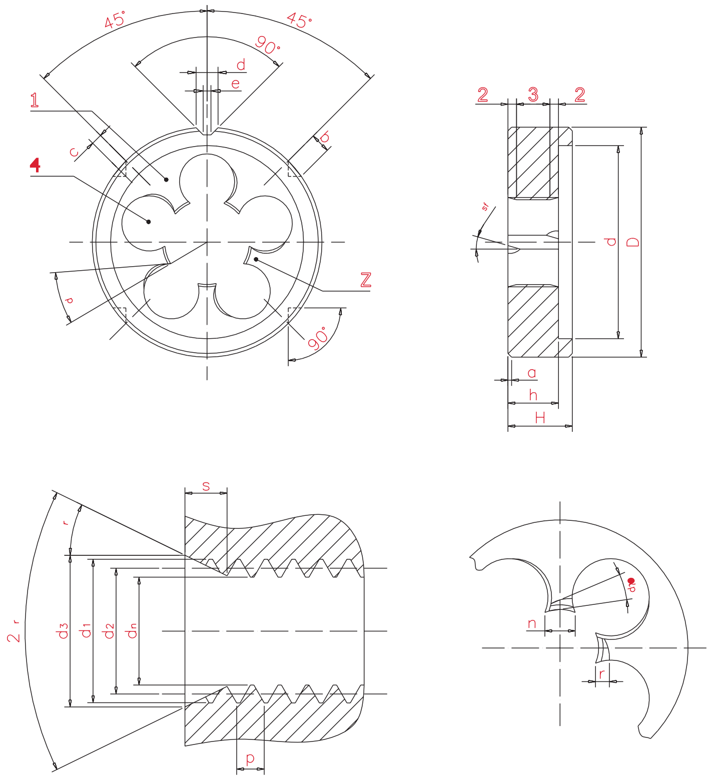
TERMINOLOGÍA
TERMINOLOGIE / TERMINOLOGY



l1	**Longitud total** / Longueur totale / Total length
l2	**Longitud de rosca** / Longueur de filetage / Thread length
l7	**Longitud de mango** / Longueur de queue / Shank length
l3	**Longitud de cuadro** / Longueur du carré / Square length
l4	**Longitud de sangrado** / Longueur d'indentation / Neck length
l5	**Longitud de entrada** / Longueur d'entrée / Chamfer length
l6	**Longitud de ranura** / Longueur de rainure / Flute Length
l8	**Longitud útil de corte** / Longueur utile de coupe / Useful length of cut
l9	**Longitud de la entrada en hélice** / Longueur de l'entrée en hélice / Spiral point length
d1	**Diámetro exterior** / Diamètre extérieur / External diameter
d2	**Diámetro de mango** / Diamètre de queue / Shank diameter
d3	**Diámetro de entrada** / Diamètre d'entrée / Chamfer diameter
d4	**Diámetro de sangrado** / Diamètre d'indentation / Neck diameter
d5	**Diámetro del alma** / Diamètre de l'âme / Core diameter
dm	**Diámetro medio** / Diamètre moyen / Pitch diameter
di	**Diámetro interno** / Diamètre interne / Internal diameter
a	**Cuadradillo** / Carré / Square
Cm	**Punto macho** / Pointe mâle / Male point
Cf	**Punto hembra** / Pointe femelle / Female point
P	**Paso de la rosca** / Pas de filetage / Pitch of thread
S	**Ancho de la ranura** / Largeur de la rainure / Flute width
T	**Ancho del diente** / Largeur de la dent / Width of land
Z	**Número de ranuras** / Nombre de rainures / Number of flutes
α	**Ángulo de flancos** / Angle de flancs / Angle of thread
β	**Ángulo de la entrada** / Angle de l'entrée / Chamfer angle
γ	**Ángulo de corte** / Angle de coupe / Rake angle
$\gamma 1$	**Ángulo de corte de la entrada corregida** / Angle de coupe de l'entrée corrigée / Spiral point rake angle
φ	**Ángulo de la entrada corregida** / Angle de l'entrée corrigée / Spiral point angle
ε	**Ángulo de la ranura** / Angle de la rainure / Flute angle
Δ	**Ángulo de destalonado de la entrada** / Angle de détalonnage de l'entrée / Chamfer relief angle
$\Delta 1$	**Ángulo de destalonado de flancos** / Angle de détalonnage des flancs / Flank relief angle

TERMINOLOGÍA

TERMINOLOGIE / TERMINOLOGY



1	**Cuerpo del cojinete** / Corps de la filière / Die body
2	**Parte cortante - Entrada cónica** / Partie coupante - Entrée conique / Cutting part - Conical entry
3	**Hilos enteros** / Fils entiers / Entire threads
4	**Alojamiento para viruta** / Logement pour copeau / Void for shavings
d_1	**Diámetro nominal de rosca** / Diamètre nominal de filetage / Nominal diameter of thread
d_2	**Diámetro de flancos** / Diamètre de flancs / Flank Diameter
d_n	**Diámetro de núcleo** / Diamètre du noyau / Nucleus diameter
d_3	**Diámetro de la entrada cónica** / Diamètre de l'entrée conique / Diameter of conical chamfer
P	**Paso de la rosca** / Pas de filetage / Thread pitch
D	**Diámetro exterior del cojinete** / Diamètre extérieur de la filière / Exterior diameter of die
d	**Diámetro de la parte rebajada** / Diamètre de la partie chanfreinée / Diameter of the reduced part
H	**Diámetro de sangrado** / Diamètre d'indentation / Bled diameter
h	**Ancho del cojinete** / Largeur de la filière / Die width
Z	**Ancho útil del cojinete** / Largeur utile de la filière / Useful width of the die
n	**Número de dientes** / Nombre de dents / Number of teeth
r	**Ancho del diente** / Largeur de la dent / Tooth width
s	**Destalonado de la entrada cónica** / Détalonnage de l'entrée conique / Conical chamfer relief
a	**Longitud de la entrada cónica** / Longueur de l'entrée conique / Conical chamfer length
b	**Chaflán** / Chanfrein / Bevel
c	**Diámetro del agujero de fijación** / Diamètre du trou de fixation / Mounting hole diameter
d	**Desplazamiento del agujero de fijación** / Déplacement du trou de fixation / Mounting hole displacement
e	**Ancho de preranura** / Largeur de pré-rainure / Pre-groove width
γ_p	**Ángulo de la ranura** / Angle de la rainure / Groove angle
χ_r	**Ángulo de desprendimiento (de corte)** / Angle de dégagement (de coupe) / Rake angle (of cut)
$2\chi_r$	**Ángulo de la entrada cónica** / Angle de l'entrée conique / Conical chamfer angle
α_p	**Ángulo de destalonado de la entrada cónica** / Angle de détalonnage de l'entrée conique / Conical chamfer relief angle
γ_{sf}	**Ángulo de la entrada en hélice (rompevirutas)** / Longueur de l'entrée en hélice (brise-copeaux) / Blade chamfer angle (chip cap)

TABLAS DE ROSCAS Y PASOS

GRILLES DES FILETAGES ET DES PAS / TABLE OF THREADS AND PITCHES

> **Roscas más usuales en pulgadas.**
> Filetages les plus courants en pouces.
> Most common threads in inches.

Ø	W 55º	BF 55º	GAS 55º	BSB BRASS 55º	UNC 60º	UNF 60º	UNEF NEF 60º	NPS NPT API 60º	UN 60º						UNS 60º					
N° 0	-	-	-	-	-	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N° 1	-	-	-	-	64	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N° 2	-	-	-	-	56	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N° 3	-	-	-	-	48	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N° 4	-	-	-	-	40	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N° 5	-	-	-	-	40	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N° 6	-	-	-	-	32	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N° 8	-	-	-	-	32	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N° 10	-	-	-	-	24	32	-	-	-	-	-	-	-	-	28	36	40	48	56	-
N° 12	-	-	-	-	24	28	32	-	-	-	-	-	-	-	36	40	48	56	-	-
1/16	60	-	-	-	-	-	-	27	-	-	-	-	-	-	-	-	-	-	-	-
3/32	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/8	40	-	28	-	-	-	-	27	-	-	-	-	-	-	-	-	-	-	-	-
5/32	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/16	24	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/32	24	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4	20	26	19	26	20	28	32	18	-	-	-	-	-	-	24	27	26	40	48	56
9/32	20	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/16	18	22	-	26	18	24	32	-	20	28	-	-	-	-	27	36	40	48	-	-
3/8	16	20	19	26	16	24	32	18	20	28	-	-	-	-	18	27	36	40	-	-
7/16	14	18	-	26	14	20	28	-	16	32	-	-	-	-	18	24	27	-	-	-
1/2	12	16	14	26	13	20	28	14	16	32	-	-	-	-	12	14	18	24	27	-
9/16	12	16	-	26	12	18	24	-	16	20	28	32	-	-	14	27	-	-	-	-
5/8	11	14	14	26	11	18	24	14	12	16	20	28	32	-	14	27	-	-	-	-
11/16	11	14	-	-	-	-	24	-	12	16	20	28	32	-	-	-	-	-	-	-
3/4	10	12	14	26	10	16	20	14	12	28	32	-	-	-	14	18	24	27	-	-
13/16	10	12	-	-	-	-	20	-	12	16	28	32	-	-	-	-	-	-	-	-
7/8	9	11	14	26	9	14	20	-	12	16	28	32	-	-	10	18	24	27	-	-
15/16	-	-	-	-	-	-	20	-	16	28	32	-	-	-	-	-	-	-	-	-
1"	8	10	11	26	8	12	20	11,5	16	28	16	-	28	-	10	14	18	24	27	-
1"1/16	-	-	-	-	-	-	18	-	8	16	20	28	-	-	-	-	-	-	-	-
1"1/8	7	9	11	26	7	12	18	-	8	16	20	28	-	-	10	14	24	-	-	-
1"3/16	-	-	-	-	-	-	18	-	8	16	20	28	-	-	-	-	-	-	-	-
1"1/4	7	9	11	26	7	12	18	11,5	8	16	20	28	-	-	10	14	24	-	-	-
1"5/16	-	-	-	-	-	-	18	-	8	16	20	28	-	-	-	-	-	-	-	-
1"3/8	6	8	11	26	6	12	18	-	6	8	12	16	20	28	10	14	24	-	-	-
1"7/16	-	-	-	-	-	-	18	-	8	16	20	28	-	-	-	-	-	-	-	-
1"1/2	6	8	11	26	6	12	18	11,5	6	8	16	20	-	-	10	14	24	-	-	-
1"9/16	-	-	-	-	-	-	18	-	6	8	12	16	20	-	-	-	-	-	-	-
1"5/8	5	8	11	26	-	-	18	-	6	8	12	16	20	-	10	14	24	-	-	-
1"11/16	-	-	-	-	-	-	18	-	6	8	12	16	20	-	-	-	-	-	-	-
1"3/4	5	7	11	26	5	-	-	-	6	8	12	16	20	-	10	14	24	-	-	-
1"13/16	-	-	-	-	-	-	-	-	6	8	12	16	20	-	-	-	-	-	-	-
1"7/8	4,5	-	-	26	-	-	-	-	6	8	12	16	20	-	10	14	24	-	-	-
1"15/16	-	-	-	-	-	-	-	-	6	8	12	16	20	-	-	-	-	-	-	-
2"	4,5	7	11	26	4,5	-	-	11,5	6	8	12	16	20	-	10	14	24	-	-	-

TABLAS DE ROSCAS Y PASOS

GRILLES DES FILETAGES ET DES PAS / TABLE OF THREADS AND PITCHES

> **Equivalencias en mm de los diámetros de las siguientes roscas.**
> **Équivalences en mm des diamètres des filetages suivants.**
> **Equivalents in mm of the diameters of the following threads.**

BSW/BSF	UNC/UNF	BSP (GAS)		NSP/NPT	PG
3/32 = 2,381mm	5/8 = 15,875 mm	G1/8 = 9,728 mm	G1"3/8 = 44,323 mm	1/8 = 10,287 mm	PG7 = 12,50 mm
1/8 = 3,175 mm	3/4 = 19,050 mm	G1/4 = 13,157 mm	G1"1/2 = 47,803 mm	1/4 = 13,716 mm	PG9 = 15,20 mm
5/32 = 3,969 mm	7/8 = 22,225 mm	G3/8 = 16,662 mm	G1"5/8 = 51,988 mm	3/8 = 17,145 mm	PG11 = 18,60 mm
3/16 = 4,762 mm	1" = 25,400 mm	G1/2 = 20,955 mm	G1"3/4 = 53,746 mm	1/2 = 21,336 mm	PG13,5 = 20,40 mm
7/32 = 5,556 mm	1"1/8 = 28,575 mm	G5/8 = 22,911 mm	G2" = 59,614 mm	3/4 = 26,670 mm	PG16 = 22,50 mm
1/4 = 6,350 mm	1"1/4 = 31,750 mm	G3/4 = 26,441 mm	G2"1/4 = 65,710 mm	1" = 33,401 mm	PG21 = 28,30 mm
9/32 = 7,144 mm	1"3/8 = 34,925 mm	G7/8 = 30,201 mm	G2"3/8 = 69,390 mm	1"1/4 = 42,164 mm	PG29 = 37,00 mm
5/16 = 7,938 mm	1"1/2 = 38,100 mm	G1" = 33,249 mm	G2"1/2 = 75,184 mm	1"1/2 = 48,260 mm	PG36 = 47,00 mm
3/8 = 9,525 mm	1"5/8 = 41,275 mm	G1"1/8 = 37,897 mm	G2"3/4 = 81,534 mm	2" = 60,325 mm	PG42 = 54,00 mm
7/16 = 11,112 mm	1"3/4 = 44,450 mm	G1"1/4 = 41,910 mm	G3" = 87,844 mm	2"1/2 = 73,025 mm	PG48 = 59,30 mm
1/2 = 12,700 mm	1"7/8 = 47,625 mm			3" = 88,900 mm	
9/16 = 14,288 mm	2" = 50,800 mm				

> **Equivalencia del paso en hilos por pulgada a mm.**
> **Équivalence du pas en fils par pouce en mm.**
> **Equivalents of pitch in threads per inch to mm.**

PASO h/1" PAS h/1" PITCH h/1"	**EQUIV. mm** ÉQUIV. mm EQUIV. mm	**PASO h/1"** PAS h/1" PITCH h/1"	**EQUIV. mm** ÉQUIV. mm EQUIV. mm	**PASO h/1"** PAS h/1" PITCH h/1"	**EQUIV. mm** ÉQUIV. mm EQUIV. mm	**PASO h/1"** PAS h/1" PITCH h/1"	**EQUIV. mm** ÉQUIV. mm EQUIV. mm	**PASO h/1"** PAS h/1" PITCH h/1"	**EQUIV. mm** ÉQUIV. mm EQUIV. mm
80	0,317	44	0,577	26	0,976	16	1,587	9	2,822
72	0,352	40	0,636	24	1,058	14	1,814	8	3,174
64	0,396	36	0,705	22	1,154	13	1,953	7	3,628
60	0,423	32	0,793	20	1,270	12	2,116	6	4,233
56	0,453	28	0,907	19	1,336	11,5	2,208	5	5,080
48	0,523	27	0,940	18	1,411	11	2,309	4,5	5,644

> **Equivalencia de las roscas PG a MF.**
> **Équivalence du pas PG à MF.**
> **Equivalents of threads PG to MF.**

PG	MF	PG	MF
7 x 20 h.	12 x 1,50	21 x 16 h.	32 x 1,50
9 x 18 h.	16 x 1,50	29 x 16 h.	40 x 1,50
11 x 18 h.	20 x 1,50	36 x 16 h.	50 x 1,50
13,5 x 18 h.	20 x 1,50	48 x 16 h.	63 x 1,50
16 x 18 h.	25 x 1,50		

DIÁMETROS PREVIOS AL ROSCADO

DIAMÈTRES PRÉALABLES AU FILETAGE / DIAMETERS BEFORE THREAD

M d1 x p (mm)	Øa
M 1 x 0,25	0,75
M 1,1 x 0,25	0,85
M 1,2 x 0,25	0,95
M 1,4 x 0,3	1,10
M 1,6 x 0,35	1,25
M 1,7 x 0,35	1,30
M 1,8 x 0,35	1,45
M 2 x 0,4	1,60
M 2,2 x 0,45	1,75
M 2,3 x 0,4	1,90
M 2,5 x 0,45	2,05
M 2,6 x 0,45	2,10
M 3 x 0,5	2,50
M 3,5 x 0,6	2,90
M 4 x 0,7	3,30
M 4,5 x 0,75	3,70
M 5 x 0,8	4,20
M 6 x 1	5,00
M 7 x 1	6,00
M 8 x 1,25	6,80
M 9 x 1,25	7,80
M 10 x 1,5	8,50
M 11 x 1,5	9,50
M 12 x 1,75	10,20
M 14 x 2	12,00
M 16 x 2	14,00
M 18 x 2,5	15,50
M 20 x 2,5	17,50
M 22 x 2,5	19,50
M 24 x 3	21,00
M 27 x 3	24,00
M 30 x 3,5	26,50
M 33 x 3,5	29,50
M 36 x 4	32,00
M 39 x 4	35,00
M 42 x 4,5	37,50
M 45 x 4,5	40,50
M 48 x 5	43,00
M 52 x 5	47,00
M 56 x 5,5	50,50
M 60 x 5,5	54,50
M 64 x 6	58,00
M 68 x 6	62,00

M d1 x p (mm)	Øa
M 3 x 0,6	2,40
M 3,5 x 0,75	2,75
M 4 x 0,75	3,25
M 4 x 0,8	3,20
M 5 x 0,9	4,10
M 5 x 1	4,00
M 5,5 x 0,9	4,60
M 6 x 1,25	4,75
M 8 x 1,5	6,50
M 13 x 1,75	11,25
M 15 x 2	13,00

MF d1 x p (mm)	Øa
M 1 x 0,2	0,80
M 1,1 x 0,2	0,90
M 1,2 x 0,2	1,00
M 1,4 x 0,2	1,20
M 1,6 x 0,2	1,40
M 1,7 x 0,2	1,50
M 1,8 x 0,2	1,60
M 2 x 0,25	1,75
M 2,2 x 0,25	1,95
M 2,3 x 0,25	2,05
M 2,5 x 0,35	2,15
M 2,6 x 0,35	2,25
M 3 x 0,35	2,65
M 3,5 x 0,35	3,15
M 4 x 0,35	3,65
M 4 x 0,5	3,50
M 4,5 x 0,5	4,00
M 5 x 0,5	4,50
M 5,5 x 0,5	5,00
M 6 x 0,5	5,50
M 6 x 0,75	5,20
M 7 x 0,5	6,50
M 7 x 0,75	6,20
M 8 x 0,5	7,50
M 8 x 0,75	7,20
M 8 x 1	7,00
M 9 x 0,75	8,20
M 9 x 1	8,00
M 10 x 0,5	9,50
M 10 x 0,75	9,20
M 10 x 1	9,00
M 10 x 1,25	8,80
M 11 x 0,75	10,20
M 11 x 1	10,00
M 11 x 1,25	9,75
M 12 x 0,75	11,25
M 12 x 1	11,00
M 12 x 1,25	10,80
M 12 x 1,5	10,50
M 13 x 0,75	12,25
M 13 x 1	12,00
M 13 x 1,25	11,75
M 13 x 1,5	11,50
M 14 x 0,75	13,25
M 14 x 1	13,00
M 14 x 1,25	12,80
M 14 x 1,5	12,50
M 15 x 1	14,00
M 15 x 1,25	13,75
M 15 x 1,5	13,50
M 16 x 1	15,00
M 16 x 1,25	14,75
M 16 x 1,5	14,50
M 17 x 1	16,00
M 17 x 1,25	15,75
M 17 x 1,5	15,50
M 18 x 1	17,00
M 18 x 1,25	16,75
M 18 x 1,5	16,50

MF d1 x p (mm)	Øa
M 18 x 2	16,00
M 19 x 1	18,00
M 19 x 1,25	17,75
M 19 x 1,5	17,50
M 20 x 1	19,00
M 20 x 1,25	18,75
M 20 x 1,5	18,50
M 20 x 2	18,00
M 21 x 1	20,00
M 21 x 1,25	19,75
M 21 x 1,5	19,50
M 22 x 1	21,00
M 22 x 1,25	20,75
M 22 x 1,5	20,50
M 22 x 2	20,00
M 23 x 1	22,00
M 23 x 1,5	21,50
M 24 x 1	23,00
M 24 x 1,25	22,75
M 24 x 1,5	22,50
M 24 x 2	22,00
M 25 x 1	24,00
M 25 x 1,25	23,75
M 25 x 1,5	23,50
M 25 x 2	23,00
M 26 x 1	25,00
M 26 x 1,5	24,50
M 26 x 2	24,00
M 27 x 1	26,00
M 27 x 1,5	25,50
M 27 x 2	25,00
M 28 x 1	27,00
M 28 x 1,5	26,50
M 28 x 2	26,00
M 30 x 1	29,00
M 30 x 1,5	28,50
M 30 x 2	28,00
M 30 x 3	27,00
M 32 x 1	31,00
M 32 x 1,5	30,50
M 32 x 2	30,00
M 33 x 1	32,00
M 33 x 1,5	31,50
M 33 x 2	31,00
M 33 x 3	30,00
M 34 x 1,5	32,50
M 34 x 2	32,00
M 35 x 1,5	33,50
M 36 x 1,5	34,50
M 36 x 2	34,00
M 36 x 3	33,00
M 38 x 1,5	36,50
M 38 x 2	36,00
M 39 x 1,5	37,50
M 39 x 2	37,00
M 39 x 3	36,00
M 40 x 1,5	38,50
M 40 x 2	38,00
M 40 x 3	37,00

MF d1 x p (mm)	Øa
M 42 x 1,5	40,50
M 42 x 2	40,00
M 42 x 3	39,00
M 44 x 1,5	42,50
M 45 x 1,5	43,50
M 45 x 2	43,00
M 45 x 3	42,00
M 45 x 4	41,00
M 48 x 1,5	46,50
M 48 x 2	46,00
M 48 x 3	45,00
M 48 x 4	44,00
M 50 x 1,5	48,50
M 50 x 2	48,00
M 50 x 3	47,00
M 52 x 1,5	50,50
M 52 x 2	50,00
M 52 x 3	49,00
M 52 x 4	48,00
M 56 x 1,5	54,50
M 56 x 2	54,00
M 56 x 3	53,00
M 56 x 4	52,00
M 60 x 1,5	58,50
M 60 x 2	58,00
M 60 x 3	57,00
M 60 x 4	56,00
M 63 x 1,5	61,50

BSW d1 (") - p (tpi)	Øa
W 1/16 - 60	1,15
W 3/32 - 48	1,80
W 1/8 - 40	2,50
W 5/32 - 32	3,10
W 3/16 - 24	3,60
W 7/32 - 24	4,40
W 1/4 - 20	5,10
W 9/32 - 20	5,90
W 5/16 - 18	6,50
W 3/8 - 16	7,90
W 7/16 - 14	9,30
W 1/2 - 12	10,50
W 9/16 - 12	12,00
W 5/8 - 11	13,50
W 11/16 - 11	15,00
W 3/4 - 10	16,50
W 13/16 - 10	18,00
W 7/8 - 9	19,25
W 1" - 8	22,00
W 1"1/8 - 7	24,75
W 1"1/4 - 7	27,75
W 1"3/8 - 6	30,50
W 1"1/2 - 6	33,50
W 1"5/8 - 5	35,50
W 1"3/4 - 5	39,00
W 1"7/8 - 4,5	41,50

DIÁMETROS PREVIOS AL ROSCADO

DIAMÈTRES PRÉALABLES AU FILETAGE / DIAMETERS BEFORE THREAD

BSW

d1 (") - p (tpi)				Ø a
W	2"	-	4,5	44,50
W	2"1/4	-	4	50,00
W	2"1/2	-	4	56,50
W	2"3/4	-	3,5	62,00
W	3"	-	3,5	68,50

UNC

d1 (") - p (tpi)				Ø a
UNC	1"3/4	-	5	39,50
UNC	2"	-	4,5	45,00
UNC	2"1/4	-	4,5	51,50
UNC	2"1/2	-	4	57,25
UNC	2"3/4	-	4	63,50
UNC	3"	-	4	70,00

UNEF

d1 (") - p (tpi)				Ø a
UNEF	1"7/16	-	18	35,10
UNEF	1"1/2	-	18	36,70
UNEF	1"9/16	-	18	38,30
UNEF	1"5/8	-	18	39,90

BSF

d1 (") - p (tpi)				Ø a
BSF	3/16	-	32	4,00
BSF	7/32	-	28	4,50
BSF	1/4	-	26	5,20
BSF	9/32	-	26	6,00
BSF	5/16	-	22	6,60
BSF	3/8	-	20	8,10
BSF	7/16	-	18	9,50
BSF	1/2	-	16	11,00
BSF	9/16	-	16	12,50
BSF	5/8	-	14	14,00
BSF	11/16	-	14	15,60
BSF	3/4	-	12	16,50
BSF	13/16	-	12	18,25
BSF	7/8	-	11	19,50
BSF	1"	-	10	22,50
BSF	1"1/8	-	9	25,50
BSF	1"1/4	-	9	28,75
BSF	1"3/8	-	8	31,50
BSF	1"1/2	-	8	34,50
BSF	1"5/8	-	8	37,50
BSF	1"3/4	-	7	40,50
BSF	2"	-	7	46,50

UNF

d1 (") - p (tpi)				Ø a
UNF	N.0	-	80	1,30
UNF	N.1	-	72	1,60
UNF	N.2	-	64	1,90
UNF	N.3	-	56	2,10
UNF	N.4	-	48	2,40
UNF	N.5	-	44	2,70
UNF	N.6	-	40	3,00
UNF	N.8	-	36	3,50
UNF	N.10	-	32	4,10
UNF	N.12	-	28	4,70
UNF	1/4	-	28	5,50
UNF	5/16	-	24	6,90
UNF	3/8	-	24	8,50
UNF	7/16	-	20	9,90
UNF	1/2	-	20	11,50
UNF	9/16	-	18	12,90
UNF	5/8	-	18	14,50
UNF	3/4	-	16	17,50
UNF	7/8	-	14	20,40
UNF	1"	-	12	23,25
UNF	1"1/8	-	12	26,50
UNF	1"1/4	-	12	29,50
UNF	1"3/8	-	12	32,75
UNF	1"1/2	-	12	36,00

G (BSP)

d1 (") - p (tpi)			Ø a
G1/16	-	28	6,80
G1/8	-	28	8,80
G1/4	-	19	11,80
G3/8	-	19	15,25
G1/2	-	14	19,00
G5/8	-	14	21,00
G3/4	-	14	24,50
G7/8	-	14	28,25
G1"	-	11	30,75
G1"1/8	-	11	35,30
G1"1/4	-	11	39,25
G1"3/8	-	11	41,90
G1"1/2	-	11	45,25
G1"3/4	-	11	51,30
G2"	-	11	57,00
G2"1/4	-	11	63,10
G2"1/2	-	11	72,60
G2"3/4	-	11	79,10
G3"	-	11	85,50
G3"1/4	-	11	91,50
G3"1/2	-	11	97,70
G3"3/4	-	11	104,00
G4"	-	11	110,50

UNC

d1 (") - p (tpi)				Ø a
UNC	N.1	-	64	1,50
UNC	N.2	-	56	1,80
UNC	N.3	-	48	2,10
UNC	N.4	-	40	2,30
UNC	N.5	-	40	2,60
UNC	N.6	-	32	2,85
UNC	N.8	-	32	3,50
UNC	N.10	-	24	3,90
UNC	N.12	-	24	4,50
UNC	1/4	-	20	5,20
UNC	5/16	-	18	6,60
UNC	3/8	-	16	8,00
UNC	7/16	-	14	9,40
UNC	1/2	-	13	10,75
UNC	9/16	-	12	12,20
UNC	5/8	-	11	13,50
UNC	3/4	-	10	16,50
UNC	7/8	-	9	19,50
UNC	1"	-	8	22,25
UNC	1"1/8	-	7	25,00
UNC	1"1/4	-	7	28,25
UNC	1"3/8	-	6	30,75
UNC	1"1/2	-	6	34,00

UNEF

d1 (") - p (tpi)				Ø a
UNEF	N.12	-	32	4,70
UNEF	1/4	-	32	5,55
UNEF	5/16	-	32	7,15
UNEF	3/8	-	32	8,70
UNEF	7/16	-	28	10,20
UNEF	1/2	-	28	11,80
UNEF	9/16	-	24	13,20
UNEF	5/8	-	24	14,80
UNEF	11/16	-	24	16,40
UNEF	3/4	-	20	17,80
UNEF	13/16	-	20	19,40
UNEF	7/8	-	20	20,95
UNEF	15/16	-	20	22,50
UNEF	1"	-	20	24,10
UNEF	1"1/16	-	18	25,60
UNEF	1"1/8	-	18	27,15
UNEF	1"3/16	-	18	28,75
UNEF	1"1/4	-	18	30,35
UNEF	1"5/16	-	18	31,90
UNEF	1"3/8	-	18	33,60

BA

d1 (") - p (tpi)				
BA 7	2,5	-	0,48	2,00
BA 8	2,2	-	0,43	1,80
BA 9	1,9	-	0,39	1,50
BA 10	1,7	-	0,35	1,30
BA 11	1,5	-	0,31	1,20
BA 12	1,3	-	0,28	1,00
BA 13	1,2	-	0,25	0,95
BA 14	1	-	0,23	0,75

PG

d1 (") - p (tpi)				
Pg 7	12,5	-	20	11,40
Pg 9	15,2	-	18	14,00
Pg 11	18,6	-	18	17,25
Pg 13,5	20,4	-	18	19,00
Pg 16	22,5	-	18	21,25
Pg 21	28,3	-	16	26,75
Pg 29	37,0	-	16	35,50
Pg 36	47,0	-	16	45,50
Pg 42	54,0	-	16	52,50
Pg 48	59,3	-	16	58,00

DIÁMETROS PREVIOS AL ROSCADO

DIAMÈTRES PRÉALABLES AU FILETAGE / DIAMETERS BEFORE THREAD

BA			
d1 (") - p (tpi)			Ø a
Rp1/16	-	28	6,60
Rp1/8	-	28	8,60
Rp1/4	-	19	11,50
Rp3/8	-	19	15,00
Rp1/2	-	14	18,50
Rp3/4	-	14	24,00
Rp1"	-	11	30,25
Rp1"1/4	-	11	39,00
Rp1"1/2	-	11	45,00
Rp2"	-	11	56,50
Rp2"1/2	-	11	72,25
Rp3"	-	11	85,00

NPSM				
d1 (") - p (tpi)				Ø a
NPSM	1/8	-	27	9,10
NPSM	1/4	-	18	12,00
NPSM	3/8	-	18	15,50
NPSM	1/2	-	14	19,00
NPSM	3/4	-	14	24,50
NPSM	1"	-	11,5	30,50
NPSM	1"1/4	-	11,5	39,25
NPSM	1"1/2	-	11,5	45,50
NPSM	2"	-	11,5	57,50
NPSM	2"1/2	-	8	69,00
NPSM	3"	-	8	85,00

M (Laminación Laminage/Lamination)				
d1 - p (mm)				Ø a ± 0,02
M	3	x	0,5	2,76
M	4	x	0,7	3,67
M	5	x	0,8	4,62
M	6	x	1	5,52
M	8	x	1,25	7,40
M	10	x	1,5	9,28
M	12	x	1,75	11,16
M	14	x	2	13,04
M	16	x	2	15,03

Rp				
d1 (") - p (tpi)				Ø a
BA 0	6	-	1	5,10
BA 1	5,3	-	0,9	4,50
BA 2	4,7	-	0,81	4,00
BA 3	4,1	-	0,73	3,40
BA 4	3,6	-	0,66	3,00
BA 5	3,2	-	0,59	2,60
BA 6	2,8	-	0,53	2,30

NPT							
d1 (") - p (tpi)				L min	Ø a	Ø b	Ø c
NPT	1/16	-	27	12,00	6,20	6,00	6,39
NPT	1/8	-	27	12,00	8,50	8,30	8,74
NPT	1/4	-	18	17,50	11,00	10,70	11,36
NPT	3/8	-	18	17,60	14,50	14,20	14,80
NPT	1/2	-	14	22,80	17,80	17,40	18,32
NPT	3/4	-	14	23,00	23,00	22,50	23,67
NPT	1"	-	11,5	27,40	29,00	28,50	29,69
NPT	1"1/4	-	11,5	28,00	37,50	37,00	38,45
NPT	1"1/2	-	11,5	28,40	44,00	43,50	44,52
NPT	2"	-	11,5	28,00	56,00	55,50	56,56
NPT	2"1/2	-	8	40,80	66,50	66,00	67,62
NPT	3"	-	8	43,00	82,50	82,00	83,53

NPTF							
d1 (") - p (tpi)				L min	Ø a	Ø b	Ø c
NPTF	1/16	-	27	12,00	6,20	6,00	6,41
NPTF	1/8	-	27	12,00	8,50	8,30	8,76
NPTF	1/4	-	18	17,50	11,00	10,70	11,40
NPTF	3/8	-	18	17,60	14,50	14,20	14,84
NPTF	1/2	-	14	22,80	17,80	17,40	18,33
NPTF	3/4	-	14	23,00	23,00	22,50	23,68
NPTF	1"	-	11,5	27,40	29,00	28,50	29,72
NPTF	1"1/4	-	11,5	28,00	37,50	37,00	38,48
NPTF	1"1/2	-	11,5	28,40	44,00	43,50	44,55
NPTF	2"	-	11,5	28,00	56,00	55,50	56,59
NPTF	2"1/2	-	8	40,80	66,50	66,00	67,67
NPTF	3"	-	8	43,00	82,50	82,00	83,58

RC							
d1 (") - p (tpi)				L min	Ø a	Ø b	Ø c
Rc	1/16	-	28	10,10	6,30	6,00	6,50
Rc	1/8	-	28	10,10	8,30	8,00	8,50
Rc	1/4	-	19	15,00	11,00	10,70	11,35
Rc	3/8	-	19	15,40	14,50	14,15	14,85
Rc	1/2	-	14	20,50	18,10	17,60	18,50
Rc	3/4	-	14	21,80	23,50	23,00	24,00
Rc	1"	-	11	26,00	29,60	29,00	30,20
Rc	1"1/4	-	11	28,30	38,10	37,50	38,80
Rc	1"1/2	-	11	28,30	44,00	43,35	44,70
Rc	2"	-	11	32,70	55,60	54,90	56,50

EJES PREVIOS AL ROSCADO

AXES PRÉALABLES AU FILETAGE / SHAFTS BEFORE THREAD

M	d1 x p (mm)			Ø a
M	1	x	0,25	0,97
M	1,1	x	0,25	1,07
M	1,2	x	0,25	1,17
M	1,4	x	0,3	1,36
M	1,6	x	0,35	1,54
M	1,7	x	0,35	1,64
M	1,8	x	0,35	1,74
M	2	x	0,4	1,93
M	2,2	x	0,45	2,13
M	2,3	x	0,4	2,23
M	2,5	x	0,45	2,43
M	2,6	x	0,45	2,53
M	3	x	0,5	2,92
M	3,5	x	0,6	3,41
M	4	x	0,7	3,91
M	4,5	x	0,75	4,41
M	5	x	0,8	4,90
M	6	x	1	5,88
M	7	x	1	6,88
M	8	x	1,25	7,87
M	9	x	1,25	8,87
M	10	x	1,5	9,85
M	11	x	1,5	10,85
M	12	x	1,75	11,83
M	14	x	2	13,82
M	16	x	2	15,82
M	18	x	2,5	17,79
M	20	x	2,5	19,79
M	22	x	2,5	21,79
M	24	x	3	23,77
M	27	x	3	26,77
M	30	x	3,5	29,73
M	33	x	3,5	32,73
M	36	x	4	35,70
M	39	x	4	38,70
M	42	x	4,5	41,69
M	45	x	4,5	44,69
M	48	x	5	47,66
M	52	x	5	51,66
M	56	x	5,5	55,65
M	60	x	5,5	59,65
M	64	x	6	63,62
M	68	x	6	67,62

M	d1 x p (mm)			Ø a
M	3	x	0,6	2,40
M	3,5	x	0,75	2,75
M	4	x	0,75	3,25
M	4	x	0,8	3,20
M	5	x	0,9	4,10
M	5	x	1	4,00
M	5,5	x	0,9	4,60
M	6	x	1,25	4,75
M	8	x	1,5	6,50
M	13	x	1,75	11,25
M	15	x	2	13,00

MF	d1 x p (mm)			Ø a
M	2	x	0,25	1,97
M	2,2	x	0,25	2,17
M	2,3	x	0,25	2,27
M	2,5	x	0,35	2,44
M	2,6	x	0,35	2,54
M	3	x	0,35	2,94
M	3,5	x	0,35	3,44
M	4	x	0,35	3,94
M	4	x	0,5	3,93
M	4,5	x	0,5	4,42
M	5	x	0,5	4,93
M	5,5	x	0,5	5,42
M	6	x	0,5	5,93
M	6	x	0,75	5,90
M	7	x	0,5	6,92
M	7	x	0,75	6,90
M	8	x	0,5	7,93
M	8	x	0,75	7,90
M	8	x	1	7,88
M	9	x	0,75	8,90
M	9	x	1	8,88
M	10	x	0,5	9,93
M	10	x	0,75	9,90
M	10	x	1	9,88
M	10	x	1,25	9,86
M	11	x	0,75	10,90
M	11	x	1	10,88
M	11	x	1,25	10,87
M	12	x	0,75	11,90
M	12	x	1	11,88
M	12	x	1,25	11,86
M	12	x	1,5	11,85
M	13	x	0,75	12,90
M	13	x	1	12,88
M	13	x	1,25	12,87
M	13	x	1,5	12,85
M	14	x	0,75	13,90
M	14	x	1	13,88
M	14	x	1,25	13,86
M	14	x	1,5	13,85
M	15	x	1	14,88
M	15	x	1,25	14,87
M	15	x	1,5	14,85
M	16	x	1	15,88
M	16	x	1,25	15,87
M	16	x	1,5	15,85
M	17	x	1,25	16,87
M	17	x	1,5	16,85
M	18	x	1	17,88
M	18	x	1,25	17,85
M	18	x	1,5	17,85
M	18	x	2	17,82
M	19	x	1	18,88
M	19	x	1,25	18,87
M	19	x	1,5	18,85
M	20	x	1	19,88
M	20	x	1,25	19,87
M	20	x	1,5	19,85
M	20	x	2	19,82

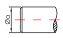
MF	d1 x p (mm)			Ø a
M	21	x	1	20,88
M	21	x	1,25	20,87
M	21	x	1,5	20,85
M	22	x	1	21,88
M	22	x	1,25	21,87
M	22	x	1,5	21,85
M	22	x	2	21,82
M	23	x	1	22,88
M	23	x	1,5	22,85
M	24	x	1	23,88
M	24	x	1,25	23,87
M	24	x	1,5	23,85
M	24	x	2	23,82
M	25	x	1	24,88
M	25	x	1,25	24,87
M	25	x	1,5	24,85
M	25	x	2	24,82
M	26	x	1	25,88
M	26	x	1,5	25,85
M	26	x	2	25,82
M	27	x	1	26,88
M	27	x	1,5	26,85
M	27	x	2	26,82
M	28	x	1	27,88
M	28	x	1,5	27,85
M	28	x	2	27,82
M	30	x	1	29,88
M	30	x	1,5	29,85
M	30	x	2	29,82
M	30	x	3	29,76
M	32	x	1	31,88
M	32	x	1,5	31,85
M	32	x	2	31,82
M	33	x	1	32,88
M	33	x	1,5	32,85
M	33	x	2	32,82
M	33	x	3	32,76
M	34	x	1,5	33,85
M	34	x	2	33,82
M	35	x	1,5	34,85
M	36	x	1,5	35,85
M	36	x	2	35,82
M	36	x	3	35,76
M	38	x	1,5	37,85
M	38	x	2	37,82
M	39	x	1,5	38,85
M	39	x	2	38,82
M	39	x	3	38,76
M	40	x	1,5	39,85
M	40	x	2	39,82
M	40	x	3	39,76
M	42	x	1,5	41,85
M	42	x	2	41,82
M	42	x	3	41,76
M	44	x	1,5	43,75
M	45	x	1,5	44,85
M	45	x	2	44,82
M	45	x	3	44,76
M	45	x	4	44,70

MF	d1 x p (mm)			Ø a
M	48	x	1,5	47,85
M	48	x	2	47,82
M	48	x	3	47,76
M	48	x	4	47,70
M	50	x	1,5	49,85
M	50	x	2	49,82
M	50	x	3	49,76
M	52	x	1,5	51,85
M	52	x	2	51,82
M	52	x	3	51,76
M	52	x	4	51,70
M	56	x	1,5	55,85
M	56	x	2	55,82
M	56	x	3	55,76
M	56	x	4	55,70
M	60	x	1,5	59,75
M	60	x	2	59,82
M	60	x	3	59,76
M	60	x	4	59,70
M	63	x	1,5	62,85

BSW	d1 (") - p (tpi)			Ø a
W	1/16	-	60	1,49
W	3/32	-	48	2,28
W	1/8	-	40	3,06
W	5/32	-	32	3,85
W	3/16	-	24	4,63
W	7/32	-	24	5,42
W	1/4	-	20	6,18
W	5/16	-	18	7,78
W	3/8	-	16	9,35
W	7/16	-	14	10,90
W	1/2	-	12	12,47
W	9/16	-	12	13,92
W	5/8	-	11	15,66
W	11/16	-	11	17,20
W	3/4	-	10	18,80
W	7/8	-	9	21,92
W	1"	-	8	25,11
W	1"1/8	-	7	28,28
W	1"1/4	-	7	31,45
W	1"3/8	-	6	34,57
W	1"1/2	-	6	37,76
W	1"5/8	-	5	40,91
W	1"3/4	-	5	44,05
W	1"7/8	-	4,5	47,27
W	2"	-	4,5	50,38
W	2"1/4	-	4	56,90
W	2"1/2	-	4	63,20
W	2"3/4	-	3,5	69,60
W	3"	-	3,5	76,20

EJES PREVIOS AL ROSCADO

AXES PRÉALABLES AU FILETAGE / SHAFTS BEFORE THREAD



UNC

d1 (") - p (tpi)	Ø a
UNC N.1- 64	1,79
UNC N.2- 56	2,12
UNC N.3- 48	2,44
UNC N.4- 40	2,76
UNC N.5- 40	3,09
UNC N.6- 32	3,41
UNC N.8- 32	4,07
UNC N.10- 24	4,71
UNC N.12- 24	5,37
UNC 1/4- 20	6,22
UNC 5/16- 18	7,8
UNC 3/8- 16	9,37
UNC 7/16- 14	10,95
UNC 1/2- 13	12,52
UNC 9/16- 12	14,10
UNC 5/8- 11	15,68
UNC 3/4- 10	18,84
UNC 7/8- 9	22,00
UNC 1"- 8	25,16
UNC 1"1/8- 7	28,31
UNC 1"1/4- 7	31,49
UNC 1"3/8- 6	34,63
UNC 1"1/2- 6	37,81
UNC 1"3/4- 5	44,12
UNC 2"- 4,5	50,45
UNC 2"1/4- 4,5	56,80
UNC 2"1/2- 4	63,10
UNC 2"3/4- 4	69,45
UNC 3"- 4	75,80

UNF

d1 (") - p (tpi)	Ø a
UNF N.0- 80	1,47
UNF N.1- 72	1,79
UNF N.2- 64	2,12
UNF N.3- 56	2,44
UNF N.4- 48	2,77
UNF N.5- 44	3,10
UNF N.6- 40	3,42
UNF N.8- 36	4,08
UNF N.10- 32	4,73
UNF N.12- 28	5,38
UNF 1/4- 28	6,24
UNF 5/16- 24	7,82
UNF 3/8- 24	9,41
UNF 7/16- 20	10,98
UNF 1/2- 20	12,56
UNF 9/16- 18	14,14
UNF 5/8- 18	15,73
UNF 3/4- 16	18,89
UNF 7/8- 14	22,05
UNF 1"- 12	25,21
UNF 1"1/8- 12	28,38
UNF 1"1/4- 12	31,56
UNF 1"3/8- 12	34,73
UNF 1"1/2- 12	37,91

UNEF

d1 (") - p (tpi)	Ø a
UNEF N.12- 32	5,39
UNEF 1/4- 32	6,25
UNEF 5/16- 32	7,84
UNEF 3/8- 32	9,42
UNEF 7/16- 28	11,00
UNEF 1/2- 28	12,59
UNEF 9/16- 24	14,18
UNEF 5/8- 24	15,75
UNEF 3/4- 20	18,91
UNEF 7/8- 20	22,09
UNEF 1"- 20	25,26
UNEF 1"1/8- 18	28,40
UNEF 1"1/4- 18	31,59
UNEF 1"3/8- 18	34,76
UNEF 1"1/2- 18	37,94

G (BSP)

d1 (") - p (tpi)	Ø a
G 1/16- 28	7,61
G 1/8- 28	9,62
G 1/4- 19	13,03
G 3/8- 19	16,53
G 1/2- 14	20,81
G 5/8- 14	22,77
G 3/4- 14	26,30
G 7/8- 14	30,06
G 1"- 11	33,07
G 1"1/8- 11	37,71
G 1"1/4- 11	41,73
G 1"3/8- 11	44,14
G 1"1/2- 11	47,62
G 1"3/4- 11	53,56
G 2"- 11	59,43
G 2"1/4- 11	65,49
G 2"1/2- 11	74,94
G 2"3/4- 11	81,27
G 3"- 11	87,57
G 3"1/4- 11	93,68
G 3"1/2- 11	100,01
G 3"3/4- 11	106,35
G 4"- 11	112,68

BA

d1 (") - p (tpi)	Ø a
BA 0 6-1	5,93
BA 1 5,3- 0,9	5,23
BA 2 4,7- 0,81	4,64
BA 3 4,1- 0,73	4,04
BA 4 3,6- 0,66	3,55
BA 5 3,2- 0,59	3,15
BA 6 2,8- 0,53	2,76
BA 7 2,5- 0,48	2,46
BA 8 2,2- 0,43	2,16

PG

d1 (") - p (tpi)	Ø a
Pg 7 12,5- 20	12,40
Pg 9 15,2- 18	15,10
Pg 11 18,6- 18	18,50
Pg 13,5 20,4- 18	20,30
Pg 16 22,5- 18	22,40
Pg 21 28,3- 16	28,15
Pg 29 37,0- 16	36,85
Pg 36 47,0- 16	46,85
Pg 42 54,0- 16	53,85
Pg 48 59,3- 16	59,15

NPSM

d1 (") - p (tpi)	Ø a
NPSM 1/8- 27	4,99
NPSM 1/4- 18	13,24
NPSM 3/8- 18	16,70
NPSM 1/2- 14	20,77
NPSM 3/4- 14	26,13
NPSM 1"- 11,5	32,68
NPSM 1"1/4- 11,5	41,45
NPSM 1"1/2- 11,5	47,52
NPSM 2" - 11,5	59,56

NPT

d1 (") - p (tpi)	L min	Ø a
NPT 1/16- 27	8,40	7,58
NPT 1/8- 27	8,50	9,93
NPT 1/4- 18	12,70	13,18
NPT 3/8- 18	12,90	16,60
NPT 1/2- 14	16,80	20,63
NPT 3/4- 14	17,10	25,95
NPT 1"- 11,5	21,30	32,51
NPT 1"1/4- 11,5	21,90	41,23
NPT 1"1/2- 11,5	22,30	47,30
NPT 2" - 11,5	23,10	59,31

NPTF

d1 (") - p (tpi)	L min	Ø a
NPTF 1/16- 27	8,40	7,58
NPTF 1/8- 27	8,50	9,93
NPTF 1/4- 18	12,70	13,18
NPTF 3/8- 18	12,90	16,60
NPTF 1/2- 14	16,80	20,63
NPTF 3/4- 14	17,10	25,95
NPTF 1"- 11,5	21,30	32,51
NPTF 1"1/4- 11,5	21,90	41,23
NPTF 1"1/2- 11,5	22,30	47,30
NPTF 2" - 11,5	23,10	59,31

R

d1 (") - p (tpi)	L min	Ø a
R 1/8- 28	8,20	9,48
R 1/4- 19	12,10	12,78
R 3/8- 19	12,50	16,26
R 1/2- 14	16,40	20,44
R 3/4- 14	17,70	25,85
R 1"- 11	20,90	32,60
R 1"1/4- 11	23,20	41,12
R 1"1/2- 11	23,20	47,01
R 2" - 11	27,50	58,62

BSF

d1 (") - p (tpi)			Ø a
BSF 3/16	-	32	4,67
BSF 7/32	-	28	5,47
BSF 1/4	-	26	6,25
BSF 5/16	-	22	7,82
BSF 3/8	-	20	9,39
BSF 7/16	-	18	10,97
BSF 1/2	-	16	12,54
BSF 9/16	-	16	14,12
BSF 5/8	-	14	15,71
BSF 11/16	-	14	17,30
BSF 3/4	-	12	18,85
BSF 7/8	-	11	22,02
BSF 1"	-	10	25,17
BSF 1"1/8	-	9	24,40
BSF 1"1/4	-	9	31,60
BSF 1"3/8	-	8	34,70
BSF 1"1/2	-	8	37,90
BSF 1"5/8	-	8	41,10
BSF 1"3/4	-	7	44,20
BSF 2"	-	7	50,60

TABLA DE CONVERSIÓN DE PULGADAS A MILÍMETROS

Calculado: 1 pulgada = 25,4 mm. (exactos), ver DIN 4890 (edición 2/75)													
		Milímetros											
Parte de pulgadas		0	1	2	3	4	5	6	7	9	10	11	12
0	0	0	25,400 0	50,800 0	76,200 0	101,600 0	127,000 0	152,400 0	177,800 0	228,600 0	254,000 0	279,400 0	203,200 0
1/64	0,015 625	0,396 9	25,796 9	51,196 9	76,596 9	101,996 9	127,396 9	152,796 9	178,196 9	228,996 9	254,396 9	279,796 9	203,596 9
1/32	0,031 25	0,793 8	26,193 8	51,593 8	76,993 8	102,393 8	127,793 8	153,193 8	178,593 8	229,393 8	254,793 8	280,193 8	203,393 8
3/64	0,046 875	1,190 6	26,590 6	51,990 6	77,390 6	102,790 6	128,190 6	153,590 6	178,990 6	229,790 6	255,190 6	280,590 6	204,390 6
1/16	0,062 5	1,587 5	26,987 5	52,387 5	77,787 5	103,187 5	128,587 5	153,987 5	179,387 5	260,187 5	255,587 5	280,987 5	204,787 5
5/64	0,078 125	1,984 4	27,384 4	52,784 4	78,181 4	103,584 4	128,984 4	154,384 4	179,784 4	230,584 4	255,984 4	281,384 4	205,180 4
3/32	0,093 75	2,381 2	27,781 2	53,181 2	78,581 2	103,981 2	129,381 2	154,781 2	180,181 2	230,981 2	256,381 2	281,781 2	205,581 2
7/64	0,109 375	2,778 1	28,178 1	53,578 1	78,978 1	104,378 1	129,778 1	155,178 1	180,578 1	231,378 1	256,778 1	282,178 1	205,578 1
1/8	0,125	3,175 0	28,575 0	53,975 0	79,375 2	104,775 0	130,175 0	155,575 0	150,975 0	231,775 0	257,175 0	282,575 0	206,375 0
9/64	0,140 625	3,571 9	28,971 9	54,361 9	79,771 9	105,171 9	130,571 9	155,971 9	181,371 9	232,171 9	257,571 9	282,971 9	206,771 9
5/32	0,156 25	3,968 8	29,368 8	54,768 8	80,186 8	105,568 8	130,968 8	156,368 8	181,768 8	232,568 8	257,968 8	283,368 8	207,168 8
11/64	0,171 875	4,365 6	29,765 6	55,165 6	80,565 6	105,965 6	131,365 6	156,765 6	182,165 6	232,965 6	258,365 6	283,765 6	207,565 6
3/16	0,187 5	4,762 5	30,162 5	55,562 5	80,962 5	106,362 5	131,762 5	157,162 5	182,562 5	233,362 5	258,762 5	284,162 5	207,962 5
13/64	0,203 125	5,159 4	30,559 4	55,959 4	81,359 4	106,759 4	132,159 4	157,559 4	182,959 4	233,759 4	259,159 4	284,559 4	208,359 4
7/32	0,218 75	5,556 2	30,956 2	56,356 2	81,756 2	107,156 2	132,556 2	157,956 2	183,353 2	234,156 2	259,556 2	284,956 2	208,756 2
15/64	0,234 375	5,953 1	31,353 1	56,753 1	82,153 1	107,553 1	132,953 1	158,353 1	183,753 1	234,553 1	259,953 1	285,353 1	209,153 1
1/4	0,25	6,350 0	31,750 0	56,150 0	82,550 0	107,950 0	133,350 0	158,750 0	184,150 0	234,950 0	260,350 0	285,750 0	209,550 0
17/64	0,265 625	6,746 9	32,146 9	57,546 9	82,946 9	108,346 9	133,746 9	159,146 9	184,546 9	235,346 9	260,746 9	286,146 9	209,946 9
9/32	0,281 25	7,143 8	32,543 8	57,943 8	83,343 8	108,743 8	134,143 8	159,543 8	184,943 8	235,743 8	261,143 8	286,543 8	210,343 8
19/64	0,296 875	7,540 6	32,940 6	58,340 6	83,740 6	109,140 6	134,540 6	159,940 6	185,340 6	236,140 6	261,540 6	286,940 6	210,740 6
5/16	0,312 5	7,937 5	33,337 5	58,737 5	84,137 5	109,537 5	134,937 5	160,337 5	185,737 5	236,537 5	261,937 5	287,337 5	211,137 5
21/64	0,328 125	8,334 4	33,734 4	59,134 4	84,534 4	109,934 4	135,334 4	160,734 4	186,134 4	236,934 4	262,334 4	287,734 4	211,534 4
11/32	0,343 75	8,731 2	34,131 2	59,531 2	84,931 2	110,331 2	135,731 2	161,131 2	186,531 2	237,331 2	262,731 2	288,131 2	211,931 2
23/64	0,359 375	9,128 1	34,528 1	59,928 1	85,328 1	110,728 1	136,128 1	161,528 1	186,928 1	237,728 1	263,128 1	288,528 1	212,328 1
3/8	0,375	9,525 0	34,925 0	60,325 0	85,725 0	111,125 0	136,525 0	161,925 0	187,625 0	238,125 0	263,525 0	288,925 0	212,725 0
25/64	0,390 625	9,921 9	35,321 9	60,721 9	86,121 9	111,521 9	136,921 9	162,321 9	187,721 9	238,521 9	263,921 9	289,321 9	213,121 9
13/32	0,406 25	10,318 8	35,718 8	61,118 8	86,518 8	111,918 8	137,318 8	162,718 8	188,118 8	238,918 8	264,318 8	289,718 8	213,518 8
27/64	0,421 875	10,715 6	36,115 6	61,515 6	86,915 6	112,315 6	137,715 6	163,115 6	188,515 6	239,315 6	264,715 6	290,115 6	213,915 6
7/16	0,437 5	11,112 5	36,512 5	61,912 5	87,312 5	112,712 5	138,112 5	163,512 5	188,912 5	239,712 5	265,112 5	290,512 5	214,312 5
29/64	0,453 125	11,509 4	36,909 4	62,309 4	87,709 4	113,109 4	138,509 4	163,909 4	189,309 4	240,109 4	265,509 4	290,909 4	214,709 4
15/32	0,468 75	11,906 2	37,306 2	62,706 2	88,106 2	113,506 2	138,906 2	164,306 2	189,706 2	240,506 2	265,906 2	291,306 2	215,106 2
31/64	0,484 375	12,303 1	37,703 1	63,103 1	88,503 1	113,903 1	139,303 1	164,703 1	190,103 1	240,903 1	266,303 1	291,703 1	215,503 1
1/2	0,5	12,700 0	38,100 0	63,500 0	88,900 0	114,300 0	139,700 0	165,100 0	190,500 0	241,300 0	266,700 0	292,100 0	215,900 0
33/64	0,515 625	13,096 9	38,496 9	63,896 9	89,296 9	114,696 9	140,096 9	165,496 9	190,896 9	241,696 9	267,096 9	292,496 9	216,296 9
17/32	0,531 25	13,493 8	38,893 8	64,293 8	89,693 8	115,093 8	140,493 8	165,893 8	191,293 8	242,093 8	267,493 8	292,893 8	216,693 8
35/64	0,546 875	13,890 6	39,290 6	64,690 6	90,090 6	115,490 6	140,890 6	166,290 6	191,690 6	242,490 6	267,890 6	293,290 6	217,090 6
9/16	0,562 5	14,287 5	39,687 5	65,087 5	90,487 5	115,887 5	141,287 5	166,687 5	192,087 5	242,887 5	268,287 5	293,687 5	217,487 5
37/64	0,578 125	14,684 4	40,084 4	65,484 4	90,884 4	116,284 4	141,684 4	167,084 4	192,484 4	243,284 4	268,684 4	294,084 4	217,884 4
19/32	0,593 75	15,081 2	40,481 2	65,8812	91,281 2	116,681 2	142,081 2	167,481 2	192,881 2	243,681 2	269,081 2	294,481 2	218,281 2
39/64	0,609 375	15,478 1	40,878 1	66,278 1	91,678 1	117,078 1	142,478 1	167,878 1	193,278 1	244,078 1	269,478 1	294,878 1	218,678 1
5/8	0,625	15,875 0	41,275 0	66,675 0	92,075 0	117,475 0	142,875 0	168,275 0	193,675 0	244,475 0	269,875 0	295,275 0	219,075 0
41/64	0,640 625	16,271 9	41,761 9	67,071 9	92,471 9	117,871 9	143,271 9	168,671 9	194,071 9	244,871 9	270,271 9	295,671 9	219,471 9
21/32	0,656 25	16,668 9	42,068 8	67,468 8	92,868 8	118,268 8	143,668 8	169,068 8	194,468 8	245,268 8	270,668 8	296,068 8	219,868 8
43/64	0,671 875	15,065 6	42,465 6	67,865 6	93,265 6	118,665 6	144,065 6	169,465 6	194,865 6	245,665 6	271,065 6	296,465 6	220,265 6
11/16	0,687 5	17,462 5	42,862 5	68,262 5	93,662 5	119,062 5	144,462 5	169,862 5	195,262 5	246,062 5	271,462 5	296,862 5	220,662 5
45/64	0,703 125	15,859 4	43,259 4	68,659 4	94,059 4	119,459 4	144,859 4	170,259 4	195,659 4	246,459 4	271,859 4	297,259 4	221,059 4
23/32	0,718 75	18,256 2	43,656 2	69,056 2	94,456 2	119,856 2	145,256 2	170,652 2	196,056 2	246,856 2	272,256 2	297,656 2	221,456 2
47/64	0,734 375	18,653 1	44,053 1	69,4531	94,853 1	120,253 1	145,653 1	171,053 1	196,453 1	247,253 1	272,653 1	298,053 1	221,853 1
3/4	0,75	19,050 0	44,450 0	69,850 0	95,250 0	120,650 0	146,050 0	171,450 0	196,850 0	247,650 0	273,050 0	298,450 0	222,250 0
49/64	0,765 625	19,446 9	44,846 9	70,246 9	95,646 9	121,046 9	146,446 9	171,846 9	197,246 9	248,046 9	273,466 9	298,846 9	222,646 9
25/32	0,781 25	19,843 8	45,243 8	70,643 8	96,043 8	121,443 8	146,843 8	172,243 8	197,643 8	248,443 8	273,843 8	299,243 8	223,043 8
51/64	0,796 875	20,240 6	45,640 6	71,040 6	96,440 6	121,840 6	147,240 6	172,640 6	198,040 6	248,340 6	274,240 6	299,640 6	223,440 6
13/16	0,812 5	20,637 5	46,037 5	71,437 5	96,837 5	122,237 5	147,637 5	173,077 5	198,437 5	249,237 5	274,637 5	300,037 5	223,837 5
53/64	0,828 125	21,034 4	46,434 4	71,834 4	97,234 4	122,634 4	148,034 4	173,434 4	198,834 4	249,634 4	275,034 4	300,434 4	224,234 4
0/32	0,843 75	21,431 2	46,831 2	72,231 2	97,631 2	123,031 2	148,431 2	173,831 2	199,231 2	250,031 2	275,431 2	300,831 2	224,631 2
55/64	0,859 375	21,828 1	47,228 1	72,628 1	98,028 1	123,428 1	148,828 1	174,228 1	199,628 1	250,428 1	275,828 1	301,228 1	225,028 1
7/8	0,875	22,225 0	47,625 0	73,025 0	98,425 0	123,825 0	149,225 0	174,625 2	200,025 0	250,825 0	276,225 0	301,625 0	225,425 0
57/64	0,890 625	22,621 9	48,021 9	73,421 9	98,821 9	124,221 9	149,621 9	175,021 9	200,421 9	251,221 9	276,621 9	302,021 9	225,821 9
29/32	0,906 25	23,018 8	48,418 8	73,818 8	99,218 8	124,618 8	150,018 8	175,418 8	200,818 8	251,618 8	277,018 8	302,418 8	226,218 8
59/64	0,921 875	23,415 6	48,815 6	74,215 6	99,615 6	125,015 6	150,415 6	175,815 6	201,215 6	252,015 6	277,415 6	302,815 6	226,615 6
15/16	0,937 5	23,812 5	49,212 5	74,612 5	100,012 5	125,412 5	150,812 5	176,212 5	201,612 5	252,412 5	277,812 5	303,212 5	227,012 5
61/64	0,953 125	24,209 4	49,609 4	75,009 4	100,409 4	125,809 4	151,209 4	176,609 4	202,009 4	252,809 4	278,209 4	303,609 4	227,409 4
31/32	0,968 75	24,606 2	50,006 2	75,406 2	100,806 2	126,206 2	151,606 2	177,006 2	202,406 2	253,206 2	278,606 2	304,006 2	227,806 2
63/64	0,984 375	25,003 1	50,403 1	75,803 1	101,203 1	126,603 1	152,003 1	177,403 1	202,803 1	253,603 1	279,003 1	304,403 1	228,203 1

12" = 304,800 0

Ejemplo: 2"1/8 = 53,975													
		Milímetros											
Parte de pulgadas		0	1	2	3	4	5	6	7	9	10	11	12
0	0	0	25,400 0		76,200 0	101,600 0	127,000 0	152,400 0	177,800 0	203,200 0	228,600 0	254,000 0	279,400 0
1/64	0,015 625	0,396 9	25,796 9		76,596 9	101,996 9	127,396 9	152,796 9	178,196 9	203,596 9	228,996 9	254,396 9	279,796 9
1/32	0,031 25	0,793 8	26,193 8		76,993 8	102,393 8	127,793 8	153,193 8	178,593 8	203,393 8	229,393 8	254,7938	280,193 8
3/64	0,046 875	1,190 6	26,590 6		77,390 6	102,790 6	128,190 6	153,590 6	178,990 6	204,390 6	229,790 6	255,190 6	280,590 6
1/16	0,062 5	1,587 5	26,987 5		77,787 5	103,187 5	128,587 5	153,987 5	179,387 5	204,787 5	230,187 5	255,587 5	280,987 5
5/64	0,078 125	1,984 4	27,384 4		78,181 4	103,584 4	128,984 4	154,384 4	179,784 4	205,184 4	230,584 4	255,984 4	281,384 4
3/32	0,093 75	2,381 2	27,781 2		78,581 2	103,981 2	129,381 2	154,781 2	180,181 2	205,581 2	230,981 2	256,381 2	281,781 2
7/64	0,109 375	2,778 1	28,178 1		78,978 1	104,378 1	129,778 1	155,178 1	180,578 1	205,978 1	231,378 1	256,778 1	282,178 1
1/8				53,975 0	79,375 0	104,775 0	130,175 0	155,575 0	180,975 0	206,375 0	231,775 0	257,175 0	282,575 0
9/64	0,140 625	3,571 9	28,971 9	54,371 9	79,771 9	105,171 9	130,571 9	155,971 9	181,371 9	206,371 9	232,171 9	257,571 9	282,971 9
5/32	0,156 25	3,968 8	29,368 8	54,768 8	80,168 8	105,568 8	130,968 8	156,368 8	181,768 8	207,168 8	232,568 8	257,968 8	283,368 8
11/64	0,171 875	4,365 6	29,765 6	55,165 6	80,565 6	105,965 6	131,365 6	156,765 6	182,165 6	207,165 6	232,965 6z	258,365 6	283,765 6

TABLA DE DATOS TÉCNICOS PARA LA INSTALACIÓN DE INSERTOS ROSCADOS DIN 8140

INFORMATION TECHNIQUE POUR L' INSTALLATION DE FILETS RAPPORTES DIN 8140 / TECHNICAL DATA SHEET FOR THE INSTALLATION OF WIRE THREAD INSERTS DIN 8140

Dxp	TALADRO						ROSCA								INSERTO						
		Longitud mínima (Lt) mm					Diam. ext. (Dr ext) min.	Diam. int. (Dr int) min.	Diam. int. (Dr int) max.	Longitud mínima (Lr) mm					Diam. ext.(d1) min.	Diam. ext.(d1) max.	nº de hilos				
	mm	1xd	1,5xd	2xd	2,5xd	3xd	mm	mm	mm	1xd	1,5xd	2xd	2,5xd	3xd	mm	mm	1xd	1,5xd	2xd	2,5xd	3xd
M 2 x 0,40	2,10	3,80	4,80	5,80	6,80	7,80	2,52	2,09	2,18	2,00	3,00	4,00	5,00	6,00	2,60	2,80	2,90	4,90	6,90	8,90	10,90
M 2,5 x 0,45	2,60	4,52	5,77	7,02	8,27	9,52	3,08	2,60	2,70	2,50	3,75	5,00	6,25	7,50	3,20	3,70	3,50	5,90	8,10	10,50	12,90
M 3 x 0,50	3,20	5,25	6,75	8,25	9,75	11,25	3,65	3,11	3,22	3,00	4,50	6,00	7,50	9,00	3,80	4,35	3,90	6,30	8,70	11,10	13,50
M 3,5 x 0,60	3,70	6,20	7,95	9,70	11,45	13,20	4,28	3,63	3,76	3,50	5,25	7,00	8,75	10,50	4,55	4,75	3,70	6,30	8,70	11,20	13,30
M 4 x 0,70	4,20	7,15	9,15	11,15	13,15	15,15	4,91	4,15	4,29	4,00	6,00	8,00	10,00	12,00	5,05	5,60	3,70	6,10	8,40	10,90	13,20
M 5 x 0,80	5,20	8,60	11,10	13,60	16,10	18,60	6,04	5,17	5,33	5,00	7,50	10,00	12,50	15,00	6,25	6,80	4,30	6,90	9,70	12,30	14,80
M 6 x 1,00	6,30	10,50	13,50	16,50	19,50	22,50	7,30	6,22	6,41	6,00	9,00	12,00	15,00	18,00	7,40	7,95	4,20	6,90	9,60	12,30	14,60
M 7 x 1,00	7,30	11,50	15,00	18,50	22,00	25,50	8,30	7,22	7,41	7,00	10,50	14,00	17,50	21,00	8,65	9,20	5,30	8,20	11,10	14,30	17,40
M 8 x 1,25	8,30	13,62	17,62	21,62	25,62	29,62	9,62	8,27	8,48	8,00	12,00	16,00	20,00	24,00	9,80	10,35	4,70	7,40	10,60	13,50	16,40
M 8 x 1,00	8,30	12,50	16,50	20,50	24,50	28,50	9,30	8,22	8,41	8,00	12,00	16,00	20,00	24,00	9,70	10,25	6,10	9,50	12,90	16,50	19,90
M 9 x 1,25	9,30	14,62	19,12	23,62	28,13	32,62	10,62	9,27	9,48	9,00	13,50	18,00	22,50	27,00	10,85	11,10	5,30	8,60	11,90	15,30	18,10
M 10 x 1,50	10,40	16,75	21,75	26,75	31,75	36,75	11,95	10,32	10,56	10,00	15,00	20,00	25,00	30,00	11,95	12,50	5,00	8,10	11,20	14,20	17,20
M 10 x 1,25	10,30	15,62	20,62	25,62	30,62	35,62	11,62	10,27	10,48	10,00	15,00	20,00	25,00	30,00	12,10	12,65	6,00	9,70	13,10	16,90	20,10
M 10 x 1,00	10,30	14,50	19,50	24,50	29,50	34,50	11,30	10,22	10,41	10,00	15,00	20,00	25,00	30,00	12,10	12,50	7,60	12,10	16,30	20,70	25,00
M 11 x 1,50	11,40	17,75	23,25	28,75	34,25	39,75	12,95	11,33	11,56	11,00	16,50	22,00	27,50	33,00	13,10	13,50	5,60	9,00	12,30	15,70	19,10
M 12 x 1,75	12,40	19,87	25,87	31,87	37,87	43,87	14,27	12,38	12,64	12,00	18,00	24,00	30,00	36,00	14,30	15,00	5,20	8,40	11,70	14,70	18,00
M 12 x 1,50	12,40	18,75	24,75	30,75	36,75	42,75	14,10	12,32	12,56	12,00	18,00	24,00	30,00	36,00	14,25	14,95	6,20	9,80	13,50	17,10	20,80
M 12 x 1,25	12,30	17,62	23,62	29,62	35,62	41,62	13,62	12,27	12,48	12,00	18,00	24,00	30,00	36,00	14,30	15,00	7,40	11,60	15,90	20,00	24,30
M 12 x 1,00	12,30	16,50	22,50	28,50	34,50	40,50	13,30	12,22	12,41	12,00	18,00	24,00	30,00	36,00	14,40	14,80	9,30	14,50	19,50	24,80	30,00
M 14 x 2,00	14,50	23,00	30,00	37,00	44,00	51,00	16,60	14,43	14,73	14,00	21,00	28,00	35,00	42,00	16,65	17,35	5,60	8,80	12,00	15,20	18,40
M 14 x 1,50	14,40	20,75	27,75	34,75	41,75	48,75	15,95	14,35	14,56	14,00	21,00	28,00	35,00	42,00	15,96	16,64	7,40	11,60	15,70	19,90	24,10
M 14 x 1,25	14,40	19,62	26,62	33,62	40,62	47,62	15,62	14,27	14,48	14,00	21,00	28,00	35,00	42,00	15,74	16,00	8,40	13,30	18,20	23,10	28,00
M 14 x 1,00	14,30	18,50	25,50	32,50	39,50	46,50	15,30	14,22	14,41	14,00	21,00	28,00	35,00	42,00	15,35	15,65	11,20	17,20	23,20	29,20	35,20
M 16 x 2,00	16,50	25,00	33,00	41,00	49,00	57,00	18,60	16,43	16,73	16,00	24,00	32,00	40,00	48,00	18,90	19,60	6,50	10,10	13,80	17,50	21,10
M 16 x 1,50	16,40	22,75	30,75	38,75	46,75	54,75	17,95	16,32	16,56	16,00	24,00	32,00	40,00	48,00	18,10	18,40	8,70	13,40	18,10	22,90	27,60
M 18 x 2,50	18,60	29,25	38,25	47,25	56,25	65,25	21,25	18,54	18,90	18,00	27,00	36,00	45,00	54,00	21,30	22,00	5,60	9,00	12,30	15,70	19,00
M 18 x 2,00	18,50	27,00	36,00	45,00	54,00	63,00	20,60	18,43	18,73	18,00	27,00	36,00	45,00	54,00	20,80	21,45	7,10	11,20	15,20	19,20	23,20
M 18 x 1,50	18,50	24,75	33,75	42,75	51,75	60,75	19,95	18,32	18,56	18,00	27,00	36,00	45,00	54,00	20,15	20,80	9,50	14,90	20,20	25,50	30,80
M 20 x 2,50	20,60	31,25	41,25	51,25	61,25	71,25	23,25	20,54	20,90	20,00	30,00	40,00	50,00	60,00	23,55	24,40	6,30	10,00	13,70	17,40	21,10
M 20 x 2,00	20,50	29,00	39,00	49,00	59,00	69,00	22,60	20,43	20,73	20,00	30,00	40,00	50,00	60,00	22,80	23,45	8,00	12,50	16,80	21,20	25,60
M 20 x 1,50	20,50	26,75	36,75	46,75	56,75	66,75	21,95	20,32	20,56	20,00	30,00	40,00	50,00	60,00	22,20	22,80	10,70	16,70	22,40	28,30	34,20
M 22 x 2,50	22,60	33,25	44,25	55,25	66,25	77,25	25,25	22,54	22,90	22,00	33,00	44,00	55,00	66,00	25,90	26,90	6,90	10,90	15,00	19,10	23,10
M 22 x 2,00	22,50	31,00	42,00	53,00	64,00	75,00	24,60	22,43	22,73	22,00	33,00	44,00	55,00	66,00	24,85	25,50	8,70	13,60	18,50	23,40	28,30
M 22 x 1,50	22,50	28,75	39,75	50,75	61,75	72,75	23,95	22,32	22,56	22,00	33,00	44,00	55,00	66,00	24,20	24,60	11,70	18,10	24,50	30,90	37,30
M 24 x 3,00	24,75	37,50	49,50	61,50	73,50	85,50	27,90	24,65	25,05	24,00	36,00	48,00	60,00	72,00	28,00	29,00	6,20	10,00	14,00	17,90	21,90
M 24 x 2,00	24,50	33,00	45,00	57,00	69,00	81,00	26,60	24,43	24,73	24,00	36,00	48,00	60,00	72,00	26,85	27,50	9,60	15,00	20,20	25,10	30,00
M 24 x 1,50	24,50	30,75	42,75	54,75	66,75	78,75	26,02	24,33	24,56	24,00	36,00	48,00	60,00	72,00	26,20	26,80	12,90	19,80	26,70	33,60	40,50
UNC N.2 x 56	2,40	4,80	5,90	7,00	8,10	9,20	2,84	2,28	2,44	2,20	3,30	4,40	5,50	6,60	2,70	2,90	3,00	5,25	7,40	9,60	11,80
UNC N.4 x 40	3,10	6,30	7,70	9,20	10,60	12,10	3,67	3,00	3,15	2,90	4,30	5,80	7,20	8,70	3,60	4,00	2,80	4,80	6,80	8,80	10,80
UNC N.5 x 40	3,40	6,60	8,20	9,80	11,10	13,00	4,00	3,33	3,48	3,20	4,80	6,40	7,90	9,60	4,00	4,40	3,30	5,50	7,80	10,00	10,30
UNC N.6 x 32	3,70	7,70	9,50	11,20	13,20	14,70	4,54	3,68	3,89	3,50	5,30	7,00	8,80	10,50	4,50	4,90	2,80	4,80	6,70	8,70	10,70
UNC N.8 x 32	4,40	8,40	10,50	12,50	14,70	16,80	5,11	4,34	4,52	4,20	6,30	8,40	10,50	12,60	5,20	5,60	3,50	5,90	8,30	10,70	13,10
UNC Nº10x24	5,20	9,90	12,30	14,70	17,20	19,50	6,20	5,06	5,28	4,80	7,20	9,60	12,10	14,40	6,20	6,60	2,90	5,00	7,10	9,20	11,30
UNC Nº12x24	5,80	10,60	13,30	16,10	18,80	21,60	6,86	5,72	5,92	5,50	8,20	11,00	13,70	16,50	6,80	7,20	3,50	5,90	8,30	10,70	13,10
UNC 1/4 x 20	6,70	12,60	15,70	18,90	22,10	25,40	8,00	6,62	6,86	6,40	9,50	12,70	15,90	19,20	8,00	8,40	3,40	5,70	8,00	10,30	12,60
UNC 5/16 x 18	8,30	15,20	19,20	23,20	27,10	31,00	9,77	8,24	8,49	7,90	11,90	15,90	19,80	23,70	9,70	10,20	4,00	6,60	9,30	11,90	14,50
UNC 3/8 x 16	9,90	16,80	21,60	26,40	31,10	35,80	11,59	9,89	10,12	9,50	14,30	19,10	23,80	28,50	11,50	12,00	4,40	7,20	10,10	12,90	15,70
UNC 7/16 x 14	11,60	19,40	25,00	30,50	36,10	41,60	13,47	11,51	11,78	11,10	16,70	22,20	27,80	33,30	13,40	14,00	4,50	7,40	10,30	13,10	15,90
UNC 1/2 x 13	13,00	22,00	28,40	34,70	41,10	47,40	15,23	13,12	13,40	12,70	19,10	25,40	31,80	38,10	15,20	15,80	4,80	7,90	10,90	13,90	16,90
UNC 9/16 x12	14,80	23,60	30,80	37,90	45,00	52,20	17,04	14,75	15,03	14,30	21,50	28,60	35,70	42,90	17,00	17,60	5,10	8,30	11,50	14,70	17,90
UNC 5/8 x11	16,50	27,10	35,00	43,00	50,90	58,90	18,87	16,38	16,68	15,90	23,80	31,80	39,70	47,70	18,90	19,50	5,30	8,30	11,80	15,00	18,20
UNC 3/4 x10	19,75	30,30	39,80	49,30	58,80	68,50	22,35	19,60	19,91	19,10	28,60	38,10	47,60	57,30	22,40	23,00	5,90	9,40	13,00	16,60	20,20
UNC 7/8 x 9	23,00	35,30	46,40	57,60	68,70	79,70	25,89	22,84	23,18	22,20	33,30	44,50	55,60	66,60	26,00	26,70	6,30	10,00	13,70	17,40	21,10
UNC 1"x8	26,25	38,50	51,20	63,90	76,60	89,30	29,52	26,09	26,47	25,40	38,10	50,80	63,50	76,20	29,60	30,40	6,40	10,20	14,00	17,80	21,60
UNC 1"1/8 x 7	29,50	43,80	58,10	72,40	86,70	101,00	33,29	29,36	29,74	28,60	42,90	57,20	71,50	85,80	33,40	34,40	6,30	10,00	13,80	17,60	21,40
UNC 1"1/4 x 7	33,00	47,00	62,80	78,70	94,70	110,60	36,46	32,54	32,92	31,80	47,60	63,50	79,50	95,40	36,70	37,70	7,10	11,30	15,40	19,60	23,70
UNC 1"3/8 x 6	36,00	51,70	69,20	86,70	104,05	121,50	40,42	35,84	36,35	34,90	52,40	69,90	87,25	104,70	40,60	41,70	6,60	10,60	14,40	18,30	22,30
UNC 1"1/2 x 6	39,50	54,90	74,00	93,00	112,05	131,10	43,60	39,02	39,53	38,10	57,20	76,20	95,25	114,30	43,90	45,00	7,40	11,60	15,90	20,10	24,30
UNF N.4 x 40	3,00	5,60	7,10	8,50	9,90	11,20	3,53	2,97	3,12	2,80	4,30	5,70	7,10	8,40	3,70	4,10	3,40	5,60	7,90	10,30	27,70
UNF N.6 x 32	3,80	6,90	8,70	10,40	12,20	13,90	4,33	3,66	3,81	3,50	5,30	7,00	8,80	10,50	4,50	4,90	3,60	6,00	8,40	10,80	13,20
UNF N.8 x 36	4,40	8,00	10,10	12,10	14,30	16,40	5,08	4,32	4,47	4,20	6,30	8,30	10,50	12,60	5,30	5,70	4,00	6,60	9,10	11,70	14,30
UNF N.10 x 32	5,10	9,00	11,40	13,80	16,30	18,60	5,86	5,00	5,16	4,80	7,20	9,60	12,10	14,40	6,10	6,50	4,10	6,80	9,50	12,10	14,70
UNF 1/4 x 28	6,70	11,50	14,60	17,80	21,00	24,30	7,53	6,55	6,72	6,40	9,50	12,70	15,90	19,20	7,80	8,30	5,00	8,10	11,30	14,40	17,50
UNF 5/16 x 24	8,30	13,00	17,00	21,00	24,90	28,80	9,31	8,17	8,35	7,90	11,90	15,90	19,80	23,70	9,70	10,20	5,50	8,90	12,20	15,60	19,00
UNF 3/8 x 24	9,80	14,60	19,40	24,20	28,90	33,60	10,90	9,75	9,93	9,50	14,30	19,10	23,80	28,50	11,40	11,90	6,90	10,90	14,90	19,00	23,10
UNF 7/16 x 20	11,50	17,30	22,90	28,40	34,00	39,50	12,76	11,39	11,59	11,10	16,70	22,20	27,80	33,30	13,40	13,90	6,60	10,60	14,50	18,40	22,30
UNF 1/2 x 20	13,00	18,90	25,30	31,60	38,00	44,30	14,35	12,97	13,16	12,70	19,10	25,40	31,80	38,10	15,10	15,70	7,80	12,30	16,80	21,30	25,80
UNF 9/16 x 18	14,80	21,60	28,80	35,90	43,00	50,20	16,12	14,59	14,79	14,30	21,50	28,60	35,70	42,90	16,90	17,60	7,90	12,50	17,10	21,60	26,20
UNF 5/8 x 18	16,25	23,20	31,10	39,10	47,00	55,00	17,70	16,18	16,38	15,90	23,80	31,80	39,70	47,70	18,60	19,30	8,90	14,10	19,10	24,30	29,50
UNF 3/4 x 16	19,50	26,40	35,90	45,40	55,00	64,60	21,11	19,39	19,60	19,10	28,60	38,10	47,70	57,30	22,20	22,90	9,70	15,10	20,60	26,00	31,40
UNF 7/8 x 14	22,75	30,50	41,60	52,80	63,90	74,90	24,58	22,62	22,84	22,20	33,30	44,50	55,60	66,60	26,00	26,70	9,90	15,40	21,00	26,60	32,20
UNF 1" x 12	26,00	34,70	47,40	60,10	72,80	85,50	28,15	25,86	26,11	25,40	38,10	50,80	63,50	76,20	29,70	30,40	9,70	15,10	20,60	26,10	31,40
UNF 1"1/8 x 12	29,00	37,90	52,20	66,50	80,80	95,10	31,33	29,03	29,29	28,60	42,90	57,20	71,50	85,80	33,20	33,90	10,10	17,30	24,40	31,50	38,60
UNF 1"1/4 x 12	32,50	41,10	56,90	72,80	88,80	104,70	34,50	32,21	32,46	31,80	47,60	63,50	79,50	95,40	36,60	37,30	12,40	19,30	26,10	33,00	39,90
UNF 1"3/8 x 12	35,50	44,20	61,70	79,20	96,55	114,00	37,68	35,38	35,63	34,90	52,40	69,90	87,25	104,70	40,00	40,90	13,80	21,30	28,90	36,40	43,90
UNF 1"1/2 x 12	38,50	47,40	66,50	85,50	104,55	123,60	40,85	38,56	38,81	38,10	57,20	76,20	95,25	114,30	43,40	44,30	15,20	23,40	31,60	39,80	48,00
BSW 1/8 x 40	3,40	6,60	8,20	9,80	11,10	13,00	3,93	3,28	3,43	3,20	4,80	6,40	7,90	9,60	4,00	4,40	3,40	5,60	7,90	10,30	12,50
BSW 3/16 x 24	5,00	9,90	12,20	14,70	17,00	19,50	6,01	4,98	5,13	4,80	7,10	9,60	11,90	14,40	6,10	6,50	2,90	5,10	7,20	9,30	11,50
BSW 1/4 x 20	6,70	12,60	15,70	18,90	26,10	25,40	7,80	6,63	6,78	6,40	9,50	12,70	15,90	19,20	7,90	8,40	3,40	5,90	8,10	10,50	12,90
BSW 5/16 x 18	8,30	15,20	19,20	23,20	27,10	31,00	9,60	8,33	8,48	7,90	11,90	15,90	19,80	23,70	9,70	10,20	4,10	6,70	9,40	12,00	14,60
BSW 3/8 x 16	9,90	16,80	21,60	26,40	31,10	35,80	11,40	9,91	10,11	9,50	14,30	19,10	23,80	28,50	11,50	12,00	4,50	7,30	10,20	13,00	15,80
BSW 7/16 x 14	11,50	19,40	25,00	30,50	36,10	41,60	13,20	11,51	11,76	11,10	16,70	22,20	27,80	33,30	13,50	14,00	4,60	7,50	10,40	13,30	16,20
BSW 1/2 x 12	13,00	22,00	28,40	34,70	41,10	47,40	15,20	13,08	13,34	12,70	19,10	25,40	31,80	38,10	15,40	16,00	4,40	7,30	10,10	13,00	15,90
BSW 9/16 x 12	14,80	23,60	30,80	37,90	45,00	52,20	16,80	14,68	14,94	14,30	21,50	28,60	35,70	42,90	17,00	17,60	5,20	8,40	11,60	14,80	18,00
BSW 5/8 x 11	16,70	27,10	35,00	43,00	50,90	58,90	18,60	16,59	16,84	15,90	23,80	31,80	39,70	47,70	18,90	19,50	5,40	8,70	11,90	15,30	18,70
BSW 3/4 x 10	20,00	30,30	39,80	49,30	58,80	68,50	22,00	19,84	20,09	19,10	28,60	38,10	47,60	57,30	22,40	23,00	6,00	9,60	13,20	16,80	20,40
BSW 7/8 x 9	23,00	35,30	46,40	57,60	68,70	79,70	25,50	23,01	23,27	22,20	33,30	44,50	55,60	66,60	26,00	26,70	6,40	10,10	13,90	17,70	21,40
BSW 1" x 8	26,50	38,50	51,20	63,90	76,60	89,30	29,10	26,19	26,52	25,40	38,10	50,80	63,50	76,20	27,70	30,40	6,50	10,30	14,10	17,90	21,70

MACHOS DE MÁQUINA
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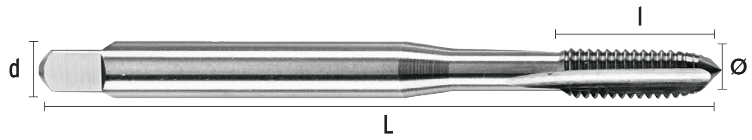
2102 **HSSE DIN 371** | M DIN 13 | MF DIN 13 | Form. C | Tol. 6H | R

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
*M1,20 x 0,25	*34,85*	40	5	2,10	2,5
*M1,40 x 0,30	*34,85*	40	7	2,10	2,5
M1,60 x 0,35	*34,23*	40	8	2,10	2,5
M1,70 x 0,35	*31,28*	40	8	2,10	2,5
M1,80 x 0,35	*32,14*	40	8	2,10	2,5
M2,00 x 0,40	*14,95*	45	8	2,10	2,8
M2,20 x 0,45	*15,46*	45	9	2,10	2,8
M2,30 x 0,40	*15,46*	45	9	2,10	2,8
M2,50 x 0,45	*14,95*	50	9	2,10	2,8
M2,60 x 0,45	*14,95*	50	9	2,10	2,8
M3,00 x 0,50	*10,27*	56	11	2,70	3,5
MF3,00 x 0,60	*17,21*	56	11	2,70	3,5
M3,50 x 0,60	*13,57*	56	11	3,00	4,0

***Tol. 4H**

Ø x P mm	€	L mm	l mm	□ mm	d mm
MF3,50 x 0,75	*19,62*	56	11	3,00	4,0
MF4,00 x 0,50	*21,44*	63	13	3,40	4,5
M4,00 x 0,70	*10,50*	63	13	3,40	4,5
M4,50 x 0,75	*18,71*	70	14	4,90	6,0
MF5,00 x 0,50	*22,04*	70	16	4,90	6,0
MF5,00 x 0,75	*22,50*	70	16	4,90	6,0
M5,00 x 0,80	*10,53*	70	16	4,90	6,0
M6,00 x 1,00	*11,96*	80	19	4,90	6,0
M7,00 x 1,00	*14,47*	80	19	5,50	7,0
M8,00 x 1,25	*13,45*	90	22	6,20	8,0
M9,00 x 1,25	*21,85*	90	22	7,00	9,0
M10,00 x 1,50	*15,08*	100	24	8,00	10,0

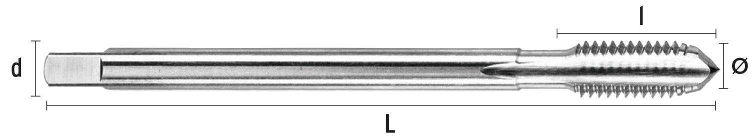
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2101 **HSSE DIN 376/374**

M	MF	Form.		Tol.	D
DIN 13	DIN 13	C		6H	

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	◻ mm	d mm
M3,00 x 0,50	10,08	**56**	**11**	**2,00**	2,2
M3,50 x 0,60	13,57	**56**	**11**	**2,10**	2,5
M4,00 x 0,70	10,50	**63**	**13**	**2,10**	2,8
M5,00 x 0,80	10,53	**70**	**16**	**2,70**	3,5
MF6,00 x 0,50	26,45	80	19	3,40	4,5
MF6,00 x 0,75	17,40	80	19	3,40	4,5
M6,00 x 1,00	11,96	**80**	**19**	**3,40**	4,5
MF7,00 x 0,50	30,10	80	19	4,30	5,5
MF7,00 x 0,75	23,22	80	19	4,90	5,5
M7,00 x 1,00	14,47	**80**	**19**	**4,30**	5,5
MF8,00 x 0,50	28,99	80	18	4,90	6,0
MF8,00 x 0,75	21,18	**80**	18	4,90	6,0
MF8,00 x 1,00	17,15	90	22	4,90	6,0
M8,00 x 1,25	13,45	**90**	**22**	**4,90**	6,0
MF9,00 x 0,75	31,42	90	22	5,50	7,0
MF9,00 x 1,00	26,16	90	22	5,50	7,0
M9,00 x 1,25	21,85	**90**	**22**	**5,50**	7,0
MF10,00 x 0,50	83,27	90	20	5,50	7,0
MF10,00 x 0,75	33,88	90	20	5,50	7,0
MF10,00 x 1,00	19,05	90	20	5,50	7,0
MF10,00 x 1,25	21,79	100	24	5,50	7,0
M10,00 x 1,50	15,08	**100**	**24**	**5,50**	7,0
MF11,00 x 1,00	33,46	90	22	6,20	8,0
MF11,00 x 1,25	33,46	100	24	6,20	8,0
M11,00 x 1,50	27,50	**100**	**24**	**6,20**	8,0
MF12,00 x 0,75	52,27	100	22	7,00	9,0
MF12,00 x 1,00	26,02	100	22	7,00	9,0
MF12,00 x 1,25	26,31	100	22	7,00	9,0
MF12,00 x 1,50	23,53	100	22	7,00	9,0
M12,00 x 1,75	19,42	**110**	**29**	**7,00**	9,0
MF13,00 x 0,75	89,44	100	22	9,00	11,0
MF13,00 x 1,00	48,32	100	22	9,00	11,0
MF13,00 x 1,25	48,32	100	22	9,00	11,0
MF13,00 x 1,50	48,32	100	22	9,00	11,0
M13,00 x 1,75	48,32	**110**	**29**	**9,00**	11,0
MF14,00 x 0,75	89,44	100	22	9,00	11,0
MF14,00 x 1,00	41,83	100	22	9,00	11,0
MF14,00 x 1,25	34,39	100	22	9,00	11,0
MF14,00 x 1,50	27,12	100	22	9,00	11,0
M14,00 x 2,00	26,90	**110**	**30**	**9,00**	11,0
MF15,00 x 1,00	53,87	100	22	9,00	12,0
MF15,00 x 1,25	58,84	100	22	9,00	12,0
MF15,00 x 1,50	47,83	100	22	9,00	12,0
M15,00 x 2,00	58,52	**110**	**30**	**9,00**	12,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
MF16,00 x 1,00	50,76	100	22	9,00	12,0
MF16,00 x 1,25	55,37	100	22	9,00	12,0
MF16,00 x 1,50	30,97	100	22	9,00	12,0
M16,00 x 2,00	31,63	**110**	**30**	**9,00**	12,0
MF17,00 x 1,00	100,97	100	22	9,00	12,0
MF17,00 x 1,25	100,97	100	22	9,00	12,0
MF17,00 x 1,50	100,97	100	22	9,00	12,0
MF18,00 x 1,00	56,84	110	25	11,00	14,0
MF18,00 x 1,25	71,85	110	25	11,00	14,0
MF18,00 x 1,50	44,39	110	25	11,00	14,0
MF18,00 x 2,00	63,85	125	34	11,00	14,0
M18,00 x 2,50	45,59	**125**	**34**	**11,00**	14,0
MF19,00 x 1,00	132,66	110	25	11,00	14,0
MF19,00 x 1,25	132,58	110	25	11,00	14,0
MF19,00 x 1,50	132,65	110	25	11,00	14,0
MF20,00 x 1,00	75,04	125	25	12,00	16,0
MF20,00 x 1,25	132,66	125	25	12,00	16,0
MF20,00 x 1,50	50,27	125	25	12,00	16,0
MF20,00 x 2,00	65,87	140	34	12,00	16,0
M20,00 x 2,50	48,45	**140**	**34**	**12,00**	16,0
MF21,00 x 1,00	192,59	125	25	12,00	16,0
MF21,00 x 1,25	192,59	125	25	12,00	16,0
MF21,00 x 1,50	141,38	125	25	12,00	16,0
MF22,00 x 1,00	84,13	125	25	14,50	18,0
MF22,00 x 1,25	132,66	125	25	14,50	18,0
MF22,00 x 1,50	60,50	125	25	14,50	18,0
MF22,00 x 2,00	84,13	140	34	14,50	18,0
M22,00 x 2,50	61,42	**140**	**34**	**14,50**	18,0
MF23,00 x 1,00	192,50	125	25	14,50	18,0
MF23,00 x 1,50	192,50	125	25	14,50	18,0
MF24,00 x 1,00	91,72	140	28	14,50	18,0
MF24,00 x 1,25	192,59	140	28	14,50	18,0
MF24,00 x 1,50	74,40	140	28	14,50	18,0
MF24,00 x 2,00	94,06	140	28	14,50	18,0
M24,00 x 3,00	73,56	**160**	**38**	**14,50**	18,0
MF25,00 x 1,00	249,13	140	28	14,50	18,0
MF25,00 x 1,50	115,78	140	28	14,50	18,0
MF25,00 x 2,00	249,13	140	28	14,50	18,0
MF26,00 x 1,00	249,13	140	28	14,50	18,0
MF26,00 x 1,50	100,34	140	28	14,50	18,0
MF26,00 x 2,00	249,13	140	28	14,50	18,0
MF27,00 x 1,00	126,02	140	28	16,00	20,0
MF27,00 x 1,50	109,58	140	28	16,00	20,0
MF27,00 x 2,00	131,14	140	28	16,00	20,0

(**continúa Ref.2101** / suite Réf.2101 / Ref.2101 cont'd)

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

(**continúa Ref.2101** / suite Réf.2101 / Ref.2101 cont'd)

Ø x P mm	€	L mm	l mm	☐ mm	d mm
M27,00 x 3,00	*91,81*	**160**	**38**	**16,00**	20,0
MF28,00 x 1,00	*249,13*	140	28	16,00	20,0
MF28,00 x 1,50	*109,58*	140	28	16,00	20,0
MF28,00 x 2,00	*249,13*	140	28	16,00	20,0
MF30,00 x 1,00	*140,17*	150	28	18,00	22,0
MF30,00 x 1,50	*114,22*	150	28	18,00	22,0
MF30,00 x 2,00	*141,38*	150	28	18,00	22,0
MF30,00 x 3,00	*155,46*	180	45	18,00	22,0
M30,00 x 3,50	*117,66*	**180**	**45**	**18,00**	22,0
MF32,00 x 1,00	*305,80*	150	28	18,00	22,0
MF32,00 x 1,50	*144,49*	150	28	18,00	22,0
MF32,00 x 2,00	*305,93*	150	28	18,00	22,0
MF33,00 x 1,00	*305,93*	160	30	20,00	25,0
MF33,00 x 1,50	*158,34*	160	30	20,00	25,0
MF33,00 x 2,00	*266,84*	160	30	20,00	25,0
MF33,00 x 3,00	*293,39*	180	50	20,00	25,0
M33,00 x 3,50	*141,38*	**180**	**50**	**20,00**	25,0
MF34,00 x 1,50	*186,07*	170	30	22,00	28,0
MF34,00 x 2,00	*335,79*	170	30	22,00	28,0
MF35,00 x 1,50	*185,57*	170	30	22,00	28,0
MF36,00 x 1,50	*180,98*	170	30	22,00	28,0
MF36,00 x 2,00	*244,45*	170	30	22,00	28,0
MF36,00 x 3,00	*280,43*	200	56	22,00	28,0
M36,00 x 4,00	*180,70*	**200**	**56**	**22,00**	28,0
MF38,00 x 1,50	*192,94*	170	30	22,00	28,0
MF38,00 x 2,00	*395,48*	170	30	22,00	28,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
MF39,00 x 1,50	*292,40*	170	30	24,00	32,0
MF39,00 x 2,00	*292,40*	170	30	24,00	32,0
MF39,00 x 3,00	*395,92*	200	60	24,00	32,0
M39,00 x 4,00	*230,71*	**200**	**60**	**24,00**	32,0
MF40,00 x 1,50	*252,39*	170	30	24,00	32,0
MF40,00 x 2,00	*293,18*	170	30	24,00	32,0
MF40,00 x 3,00	*293,18*	200	60	24,00	32,0
MF42,00 x 1,50	*256,18*	170	30	24,00	32,0
MF42,00 x 2,00	*335,37*	170	30	24,00	32,0
MF42,00 x 3,00	*335,37*	200	60	24,00	32,0
M42,00 x 4,50	*296,58*	**200**	**60**	**24,00**	32,0
MF45,00 x 1,50	*317,17*	180	32	29,00	36,0
MF45,00 x 2,00	*402,67*	180	32	29,00	36,0
MF45,00 x 3,00	*402,67*	200	50	29,00	36,0
M45,00 x 4,50	*324,08*	**220**	**65**	**29,00**	36,0
MF48,00 x 1,50	*324,08*	190	32	29,00	36,0
MF48,00 x 2,00	*488,02*	190	32	29,00	36,0
MF48,00 x 3,00	*487,99*	225	50	29,00	36,0
M48,00 x 5,00	*398,48*	**250**	**70**	**29,00**	36,0
MF50,00 x 1,50	*378,98*	190	32	29,00	36,0
MF52,00 x 1,50	*383,65*	190	32	32,00	40,0
MF52,00 x 2,00	*586,16*	190	32	32,00	40,0
MF52,00 x 3,00	*601,84*	225	50	32,00	40,0
M52,00 x 5,00	*408,11*	**250**	**70**	**32,00**	40,0
MF63,00 x 1,50	*879,28*	**275**	**40**	**39,00**	50,0

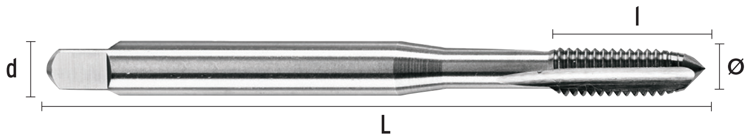
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2102/5 HSSE DIN 371

M DIN 13 | Form. C | Tol. 6H | LH | R

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



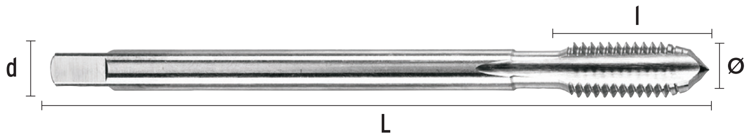
Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M3 x 0,50	20,54	56	11	2,70	3,5
M4 x 0,70	20,97	63	13	3,40	4,5
M5 x 0,80	21,07	70	16	4,90	6,0
M6 x 1,00	23,90	80	19	4,90	6,0
M8 x 1,25	26,91	90	22	6,20	8,0
M10 x 1,50	30,14	100	24	8,00	10,0

2101/5 HSSE DIN 376/374

M DIN 13 | MF DIN 13 | Form. C | Tol. 6H | LH | D

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M5 x 0,80	21,07	70	16	2,70	3,5
M6 x 1,00	23,90	80	19	3,40	4,5
M7 x 1,00	28,94	80	19	4,30	5,5
MF8 x 1,00	34,30	90	22	4,90	6,0
M8 x 1,25	26,91	90	22	4,90	6,0
M9 x 1,25	43,71	90	22	5,50	7,0
MF10 x 1,00	38,06	90	20	5,50	7,0
MF10 x 1,25	30,14	100	24	5,50	7,0
M10 x 1,50	30,14	100	24	5,50	7,0
MF12 x 1,25	52,60	100	22	7,00	7,0
MF12 x 1,50	47,05	100	22	7,00	9,0
M12 x 1,75	38,86	110	29	7,00	9,0
MF14 x 1,50	54,24	100	22	9,00	9,0
M14 x 2,00	53,80	110	30	9,00	11,0
MF16 x 1,50	61,92	100	22	9,00	11,0
M16 x 2,00	63,24	110	30	9,00	12,0
MF18 x 1,50	88,78	110	25	11,00	12,0
M18 x 2,50	95,58	125	34	11,00	14,0
MF20 x 1,50	100,53	125	25	12,00	14,0
M20 x 2,50	101,51	140	35	12,00	16,0
MF22 x 1,50	121,02	125	25	14,50	18,0
M22 x 2,50	122,87	140	34	14,50	18,0
MF24 x 1,50	148,82	140	28	14,50	18,0
M24 x 3,00	147,13	160	38	14,50	18,0
M27 x 3,00	183,60	160	38	16,00	20,0
M30 x 3,50	235,29	180	45	18,00	22,0

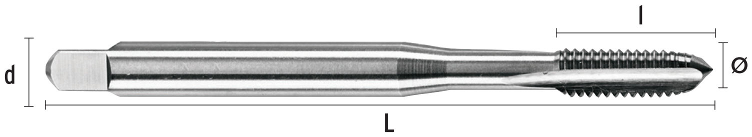
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2114 HSSE DIN 371

M	MF	Form.	Tol.	R
DIN 13	DIN 13	A	6H	

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** — F — 1000 N/mm^2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
M2,00 x 0,40	15,86	45	8	2,10	2,8
M2,20 x 0,45	17,17	45	9	2,10	2,8
M2,30 x 0,40	16,35	45	9	2,10	2,8
M2,50 x 0,45	15,86	50	9	2,10	2,8
M2,60 x 0,45	15,86	50	9	2,10	2,8
M3,00 x 0,50	11,30	56	11	2,70	3,5
M3,50 x 0,60	14,40	56	11	3,00	4,0
M4,00 x 0,70	11,53	63	13	3,40	4,5

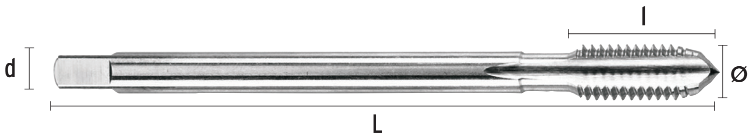
Ø x P mm	€	L mm	l mm	□ mm	d mm
M4,50 x 0,75	19,83	70	14	4,90	6,0
M5,00 x 0,80	11,59	70	16	4,90	6,0
M6,00 x 1,00	13,15	80	19	4,90	6,0
M7,00 x 1,00	15,04	80	19	5,50	7,0
M8,00 x 1,25	14,79	90	22	6,20	8,0
M9,00 x 1,25	23,17	90	22	7,00	9,0
M10,00 x 1,50	16,56	100	24	8,00	10,0

2113 HSSE DIN 376/374

M	MF	Form.	Tol.	D
DIN 13	DIN 13	A	6H	

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** — F — 1000 N/mm^2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3,00 x 0,50	11,30	56	11	2,00	2,2
M3,50 x 0,60	14,40	56	11	2,10	2,5
M4,00 x 0,70	11,53	63	13	2,10	2,8
M5,00 x 0,80	11,59	70	16	2,70	3,5
M6,00 x 1,00	13,15	80	19	3,40	4,5
M7,00 x 1,00	15,04	80	19	4,30	5,5
M8,00 x 1,25	14,79	90	22	4,90	6,0
M9,00 x 1,25	23,17	90	22	5,50	7,0
M10,00 x 1,50	16,56	100	24	5,50	7,0
M11,00 x 1,50	29,18	100	24	6,20	8,0
M12,00 x 1,75	21,38	110	29	7,00	9,0
M13,00 x 1,75	51,21	110	29	9,00	11,0
M14,00 x 2,00	27,96	110	30	9,00	11,0
M15,00 x 2,00	62,01	110	30	9,00	12,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M16,00 x 2,00	32,85	110	30	9,00	12,0
M18,00 x 2,50	50,64	125	35	11,00	14,0
M20,00 x 2,50	53,79	140	35	12,00	16,0
M22,00 x 2,50	65,08	140	35	14,50	18,0
M24,00 x 3,00	77,95	160	38	14,50	18,0
M27,00 x 3,00	97,27	160	38	16,00	20,0
M30,00 x 3,50	124,66	180	45	18,00	22,0
M33,00 x 3,50	149,80	180	50	20,00	25,0
M36,00 x 4,00	191,48	200	56	22,00	28,0
M39,00 x 4,00	244,44	200	60	24,00	32,0
M42,00 x 4,50	314,25	200	60	24,00	32,0
M45,00 x 4,50	343,36	220	65	29,00	36,0
M48,00 x 5,00	422,21	250	70	29,00	36,0
M52,00 x 5,00	432,39	250	70	32,00	40,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

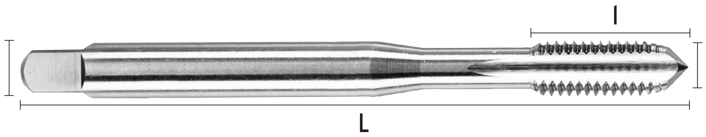
2190 HSSE DIN 371

M DIN 13 | Form. E | Tol. 6H | R

Latón y bronce — Laiton et Bronze / Brass and bronze

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	11,48	56	11	3,50	3,5
M4 x 0,70	11,72	63	13	3,40	4,5
M5 x 0,80	11,76	70	16	4,90	6,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M6 x 1,00	13,38	80	19	4,90	6,0
M8 x 1,25	17,16	90	22	6,20	8,0
M10 x 1,50	22,14	100	24	8,00	10,0

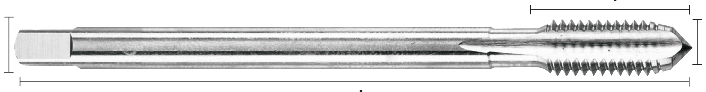
2191 HSSE DIN 376

M DIN 13 | Form. E | Tol. 6H | D

Latón y bronce — Laiton et Bronze / Brass and bronze

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M6 x 1,00	13,38	80	19	3,40	4,5
M8 x 1,25	17,16	90	22	4,90	6,0
M10 x 1,50	22,14	100	24	5,50	7,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M12 x 1,75	29,49	110	29	7,00	9,0
M14 x 2,00	34,68	110	30	9,00	11,0
M16 x 2,00	41,60	110	30	9,00	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2129 HSSE DIN 371

M DIN 13 | Form. C | Tol. 6HX | R | NIT

Fundición — Fonte / Cast Iron

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	☐ mm	d mm
M3 x 0,50	*13,60*	56	11	2,70	3,5
M4 x 0,70	*13,05*	63	13	3,40	4,5
M5 x 0,80	*13,05*	70	16	4,90	6,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
M6 x 1,00	*14,33*	80	19	4,90	6,0
M8 x 1,25	*16,33*	90	22	6,20	8,0
M10 x 1,50	*19,39*	100	24	8,00	10,0

***(Hasta fin de existencias /** Jusqu'à épuisement des stocks / While supplies last)

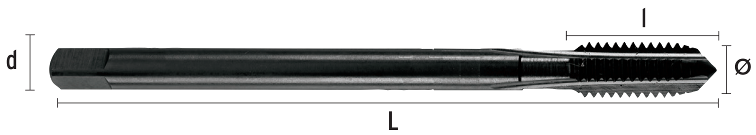
2128 HSSE DIN 376

M DIN 13 | Form. C | Tol. 6HX | D | NIT

Fundición — Fonte / Cast Iron

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	☐ mm	d mm
M6 x 1,00	*14,33*	80	19	3,40	4,5
M8 x 1,25	*16,33*	90	22	4,90	6,0
M10 x 1,50	*19,39*	100	24	5,50	7,0
M12 x 1,75	*25,00*	110	29	7,00	9,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
M14 x 2,00	*34,82*	110	30	9,00	11,0
M16 x 2,00	*42,24*	110	30	9,00	12,0
M18 x 2,50	*78,74*	125	34	11,00	14,0
M20 x 2,50	*78,74*	140	34	12,00	16,0

***(Hasta fin de existencias /** Jusqu'à épuisement des stocks / While supplies last)

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MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

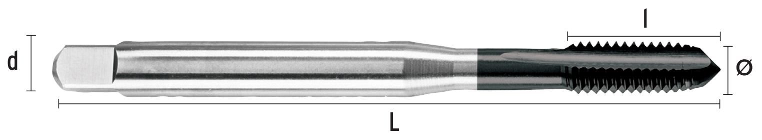
2180 HSSE-PM DIN 371

M DIN 13 | Form. C | Tol. 6HX | R | TICN

Fundición — Fonte / Cast Iron

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	*20,62*	56	11	2,70	3,5
M4 x 0,70	*21,05*	63	13	3,40	4,5
M5 x 0,80	*21,05*	70	16	4,90	6,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M6 x 1,00	*22,31*	80	19	4,90	6,0
M8 x 1,25	*26,59*	90	22	6,20	8,0
M10 x 1,50	*32,17*	100	24	8,00	10,0

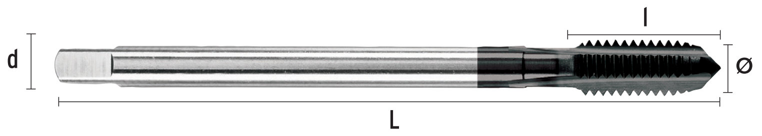
2179 HSSE-PM DIN 376

M DIN 13 | Form. C | Tol. 6HX | D | TICN

Fundición — Fonte / Cast Iron

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M8 x 1,25	*26,59*	90	24	4,90	6,0
M10 x 1,50	*32,17*	100	24	5,50	7,0
M12 x 1,75	*40,51*	110	29	7,00	9,0
M14 x 2,00	*51,64*	110	30	9,00	11,0

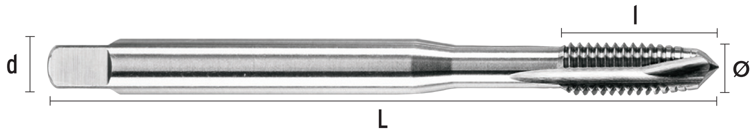
Ø x P mm	€	L mm	l mm	□ mm	d mm
M16 x 2,00	*59,55*	110	30	9,00	12,0
M18 x 2,50	*99,96*	125	34	11,00	14,0
M20 x 2,50	*112,95*	140	34	12,00	16,0

2104 HSSE DIN 371

M DIN 13 | MF DIN 13 | Form. B "Gun" | Tol. 6H | R

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M2,00 x 0,40	16,34	45	8	2,10	2,8
M2,50 x 0,45	16,26	50	9	2,10	2,8
M2,60 x 0,45	16,26	50	9	2,10	2,8
M3,00 x 0,50	11,58	56	11	2,70	3,5
MF3,00 x 0,60	19,22	56	11	2,70	3,5
M3,50 x 0,60	14,83	56	11	3,40	4,0
MF4,00 x 0,50	23,59	63	13	3,00	4,5
M4,00 x 0,70	11,84	63	13	3,40	4,5
MF4,00 x 0,75	16,91	63	13	3,40	6,0

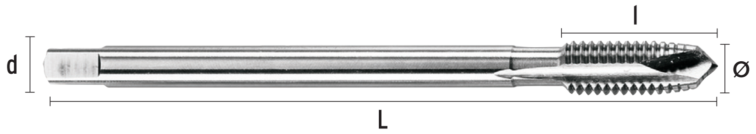
Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M4,50 x 0,75	20,76	70	14	4,90	6,0
MF5,00 x 0,50	24,25	70	16	4,90	6,0
M5,00 x 0,80	11,86	70	16	4,90	6,0
M6,00 x 1,00	13,01	80	19	4,90	6,0
M7,00 x 1,00	17,02	80	19	5,50	7,0
M8,00 x 1,25	14,35	90	22	6,20	8,0
M9,00 x 1,25	22,28	90	22	7,00	10,0
M10,00 x 1,50	17,61	100	24	8,00	10,0

2103 HSSE DIN 376/374

M DIN 13 | MF DIN 13 | Form. B "Gun" | Tol. 6H | D

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M3,00 x 0,50	11,58	56	11	2,00	2,2
M3,50 x 0,60	14,84	56	13	2,10	2,5
M4,00 x 0,70	11,84	63	13	2,10	2,8
M4,50 x 0,75	20,76	70	16	2,70	3,5
M5,00 x 0,80	11,86	70	16	2,70	3,5
MF6,00 x 0,75	19,71	80	19	3,40	4,5
M6,00 x 1,00	13,01	80	19	3,40	4,5
MF7,00 x 0,75	25,73	80	19	4,90	5,5
M7,00 x 1,00	17,02	80	19	4,30	5,5
MF8,00 x 0,75	24,34	90	22	4,90	6,0
MF8,00 x 1,00	18,86	90	22	4,90	6,0
M8,00 x 1,25	14,35	90	22	4,90	6,0
MF9,00 x 1,00	28,77	90	22	5,50	7,0
M9,00 x 1,25	22,28	90	22	5,50	7,0
MF10,00 x 0,75	34,58	90	20	5,50	7,0
MF10,00 x 1,00	21,01	90	20	5,50	7,0
MF10,00 x 1,25	25,03	100	24	5,50	7,0
M10,00 x 1,50	17,61	100	24	5,50	7,0
MF11,00 x 1,00	36,83	90	20	6,20	8,0
MF11,00 x 1,25	36,83	100	24	6,20	8,0
M11,00 x 1,50	30,25	100	24	6,20	8,0
MF12,00 x 1,00	28,63	100	22	7,00	9,0

Ø x P mm	€	L mm	l mm	⊠ mm	d mm
MF12,00 x 1,25	28,94	100	22	7,00	9,0
MF12,00 x 1,50	25,85	100	22	7,00	9,0
M12,00 x 1,75	22,48	110	29	7,00	9,0
MF13,00 x 1,00	53,15	100	22	9,00	11,0
MF13,00 x 1,25	53,11	100	22	9,00	11,0
MF13,00 x 1,50	53,11	100	22	9,00	11,0
M13,00 x 1,75	53,15	110	29	9,00	11,0
MF14,00 x 1,00	46,01	100	22	9,00	11,0
MF14,00 x 1,25	37,54	100	22	9,00	11,0
MF14,00 x 1,50	29,86	100	22	9,00	11,0
M14,00 x 2,00	29,60	110	30	9,00	11,0
MF15,00 x 1,00	59,12	100	22	9,00	12,0
MF15,00 x 1,25	64,74	100	22	9,00	12,0
MF15,00 x 1,50	52,59	100	22	9,00	12,0
M15,00 x 2,00	64,38	110	30	9,00	12,0
MF16,00 x 1,00	55,82	100	22	9,00	12,0
MF16,00 x 1,25	61,88	100	22	9,00	12,0
MF16,00 x 1,50	37,21	100	22	9,00	12,0
M16,00 x 2,00	36,36	110	30	9,00	12,0
MF18,00 x 1,00	62,49	110	25	11,00	14,0
MF18,00 x 1,50	48,83	110	25	11,00	14,0
MF18,00 x 2,00	70,26	125	34	11,00	14,0

(continúa **Ref.2103** / suite Réf.2103 / Ref.2103 cont'd)

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

(**continúa Ref.2103** / suite Réf.2103 / Ref.2103 cont'd)

Ø x P mm	€	L mm	l mm	□ mm	d mm
M18,00 x 2,50	*49,41*	**125**	**34**	**11,00**	14,0
MF20,00 x 1,00	*82,56*	125	25	12,00	16,0
MF20,00 x 1,50	*55,27*	125	25	12,00	16,0
MF20,00 x 2,00	*72,44*	140	34	12,00	16,0
M20,00 x 2,50	*53,30*	**140**	**34**	**12,00**	16,0
MF22,00 x 1,00	*92,54*	125	25	14,50	18,0
MF22,00 x 1,50	*66,54*	125	25	14,50	18,0
MF22,00 x 2,00	*92,54*	140	34	14,50	18,0
M22,00 x 2,50	*67,56*	**140**	**34**	**14,50**	18,0
MF24,00 x 1,00	*115,29*	140	28	14,50	18,0
MF24,00 x 1,50	*81,80*	140	28	14,50	18,0
MF24,00 x 2,00	*103,46*	140	28	14,50	18,0
M24,00 x 3,00	*80,46*	**160**	**38**	**14,50**	18,0
MF25,00 x 1,50	*127,11*	140	28	14,50	18,0
MF25,00 x 2,00	*274,05*	140	28	14,50	18,0
MF26,00 x 1,50	*105,21*	140	28	14,50	18,0
MF26,00 x 2,00	*274,05*	140	28	14,50	18,0
MF27,00 x 1,50	*120,26*	140	28	16,00	20,0
MF27,00 x 2,00	*143,40*	140	28	16,00	20,0
M27,00 x 3,00	*100,65*	**160**	**38**	**16,00**	20,0
MF28,00 x 1,50	*120,26*	140	28	16,00	20,0
MF28,00 x 2,00	*274,05*	140	28	16,00	20,0
MF30,00 x 1,00	*171,07*	150	28	18,00	22,0
MF30,00 x 1,50	*125,67*	150	28	18,00	22,0
MF30,00 x 2,00	*155,51*	150	28	18,00	22,0

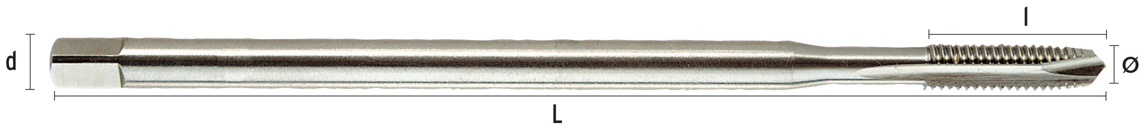
Ø x P mm	€	L mm	l mm	□ mm	d mm
M30,00 x 3,50	*129,33*	**180**	**45**	**18,00**	22,0
MF32,00 x 1,50	*158,86*	150	28	18,00	22,0
MF32,00 x 2,00	*336,54*	150	28	18,00	22,0
MF33,00 x 1,50	*171,91*	160	30	20,00	25,0
MF33,00 x 2,00	*293,48*	160	30	20,00	25,0
M33,00 x 3,50	*162,69*	**180**	**50**	**20,00**	25,0
MF34,00 x 1,50	*199,08*	170	30	22,00	28,0
MF35,00 x 1,50	*210,35*	170	30	22,00	28,0
MF36,00 x 1,50	*199,08*	170	30	22,00	28,0
MF36,00 x 2,00	*268,89*	170	30	22,00	28,0
MF36,00 x 3,00	*308,47*	200	56	22,00	28,0
M36,00 x 4,00	*198,76*	**200**	**56**	**22,00**	28,0
MF38,00 x 1,50	*217,36*	170	30	22,00	28,0
MF38,00 x 2,00	*435,05*	170	30	22,00	28,0
M39,00 x 4,00	*253,80*	**200**	**60**	**24,00**	32,0
MF40,00 x 1,50	*277,67*	170	30	24,00	32,0
MF40,00 x 3,00	*342,94*	200	60	24,00	32,0
MF42,00 x 1,50	*282,26*	170	30	24,00	32,0
M42,00 x 4,50	*326,29*	**200**	**60**	**24,00**	32,0
MF45,00 x 1,50	*345,62*	180	32	29,00	36,0
M45,00 x 4,50	*356,44*	**220**	**65**	**29,00**	36,0
M48,00 x 5,00	*438,30*	**250**	**70**	**29,00**	36,0
MF50,00 x 1,50	*421,25*	190	32	29,00	36,0
M52,00 x 5,00	*448,69*	**250**	**70**	**32,00**	40,0

2111 HSSE DIN 371

M DIN 13 | Form. B "Gun" | Tol. 6H | R

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	*26,64*	100	11	2,70	3,5
M4 x 0,70	*26,64*	100	13	3,40	4,5
M5 x 0,80	*30,09*	120	16	4,90	6,0
M6 x 1,00	*30,09*	120	19	4,90	6,0

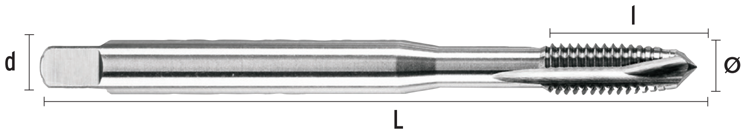
Ø x P mm	€	L mm	l mm	□ mm	d mm
M8 x 1,25	*39,72*	150	22	6,20	8,0
M10 x 1,50	*48,21*	150	24	8,00	10,0
M12 x 1,75	*54,18*	150	29	9,00	12,0

2110 HSSE DIN 371

M DIN 13 | Form. B "Gun" | Tol. 6H +0,1 | R

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	*18,41*	56	11	2,70	3,5
M4 x 0,70	*18,80*	63	13	3,40	4,5
M5 x 0,80	*18,85*	70	16	4,90	6,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M6 x 1,00	*21,42*	80	19	4,90	6,0
M8 x 1,25	*24,11*	90	22	6,20	8,0
M10 x 1,50	*30,36*	100	24	8,00	10,0

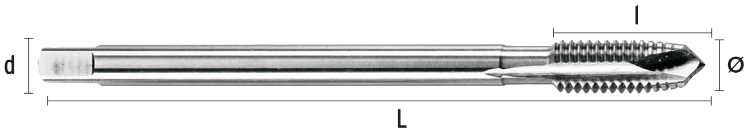
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2109 HSSE DIN 376

M DIN 13 | Form. B "Gun" | Tol. 6H +0,1 | D

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
M8 x 1,25	*24,11*	90	22	4,90	6,0
M10 x 1,50	*30,36*	100	24	5,50	7,0
M12 x 1,75	*38,77*	110	29	7,00	9,0

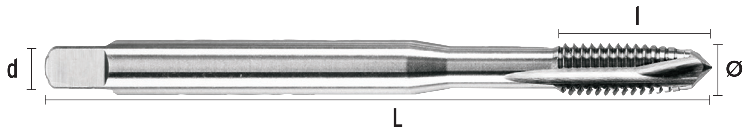
Ø x P mm	€	L mm	l mm	□ mm	d mm
M14 x 2,00	*48,67*	110	30	9,00	11,0
M16 x 2,00	*58,89*	110	30	9,00	12,0

2168 HSSE DIN 371

M DIN 13 | Form. B "Gun" | Tol. 6G | R

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	*18,20*	56	11	2,70	3,5
M4 x 0,70	*18,20*	63	13	3,40	4,5
M5 x 0,80	*18,20*	70	16	4,90	6,0

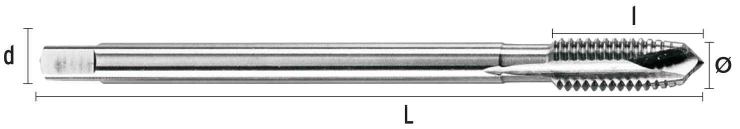
Ø x P mm	€	L mm	l mm	□ mm	d mm
M6 x 1,00	*18,35*	80	19	4,90	6,0
M8 x 1,25	*22,02*	90	22	6,20	8,0
M10 x 1,50	*25,88*	100	24	8,00	10,0

2169 HSSE DIN 376

M DIN 13 | Form. B "Gun" | Tol. 6G | D

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
M8 x 1,25	*22,02*	90	22	4,90	6,0
M10 x 1,50	*25,88*	100	24	5,50	7,0
M12 x 1,75	*32,34*	110	29	7,00	9,0
M14 x 2,00	*40,56*	110	30	9,00	11,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M16 x 2,00	*49,07*	110	30	9,00	12,0
M18 x 2,50	*67,40*	125	34	11,00	14,0
M20 x 2,50	*70,46*	140	34	12,00	16,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2250 HSSE DIN 371 | M DIN 13 | MF DIN 13 | Form. B "Gun" | Tol. 6H | R | VAP

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	☐ mm	d mm
M3,00x0,50	12,96	56	11	2,70	3,5
M4,00x0,70	13,27	63	13	3,40	4,5
M5,00x0,80	13,28	70	16	4,90	6,0

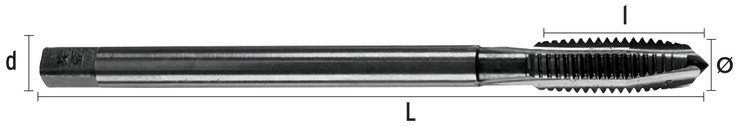
Ø x P mm	€	L mm	l mm	☐ mm	d mm
M6,00x1,00	14,57	80	19	4,90	6,0
M8,00x1,25	16,07	90	22	6,20	8,0
M10,00x1,50	19,73	100	24	8,00	10,0

2251 HSSE DIN 376/374 | M DIN 13 | MF DIN 13 | Form. B "Gun" | Tol. 6H | D | VAP

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	☐ mm	d mm
MF8,00x1,00	21,13	90	22	4,90	6,0
M8,00x1,25	16,07	90	22	4,90	6,0
MF10,00x1,00	23,53	90	20	5,50	7,0
MF10,00x1,25	28,03	100	24	5,50	7,0
M10,00x1,50	19,73	100	24	5,50	7,0
MF12,00x1,00	32,08	100	22	7,00	9,0
MF12,00x1,25	32,41	100	22	7,00	9,0
MF12,00x1,50	33,22	100	22	7,00	9,0
M12,00x1,75	25,18	110	29	7,00	9,0
MF14,00x1,25	42,03	100	22	9,00	11,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
MF14,00x1,50	33,45	100	22	9,00	11,0
M14,00x2,00	33,15	110	30	9,00	11,0
MF16,00x1,50	41,68	100	22	9,00	12,0
M16,00x2,00	40,72	110	30	9,00	12,0
MF18,00x1,50	54,69	125	34	11,00	14,0
M18,00x2,50	55,34	125	34	11,00	14,0
MF20,00x1,50	61,90	125	25	12,00	16,0
M20,00x2,50	59,70	140	34	12,00	16,0
M22,00x2,50	75,66	140	34	14,50	18,00
M24,00x3,00	90,13	160	38	14,50	18,00

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

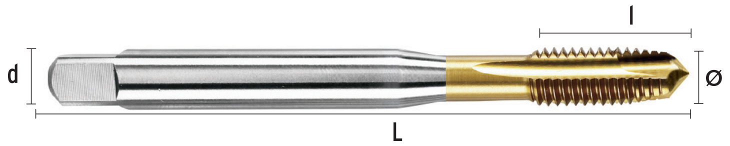
2116 HSSE DIN 371

M DIN 13 | Form. B "Gun" | Tol. 6H | R | TIN

Aceros 400 - 800 N/mm² — Aciers / Steel — 800 N/mm2 · F · AL · CU · PL

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	*16,21*	56	11	2,70	3,5
M4 x 0,70	*17,32*	63	13	3,40	4,5
M5 x 0,80	*17,33*	70	16	4,90	6,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M6 x 1,00	*18,49*	80	19	4,90	6,0
M8 x 1,25	*21,40*	90	22	6,20	8,0
M10 x 1,50	*28,07*	100	24	8,00	10,0

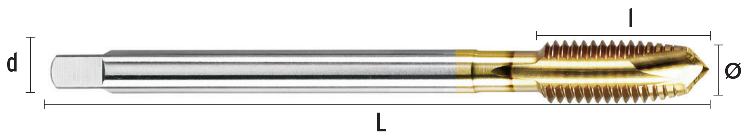
2115 HSSE DIN 376/374

M DIN 13 | Form. B "Gun" | Tol. 6H | D | TIN

Aceros 400 - 800 N/mm² — Aciers / Steel — 800 N/mm2 · F · AL · CU · PL

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
MF8,00x1,00	*25,92*	90	22	4,90	6,0
M8,00x1,25	*21,40*	90	22	4,90	6,0
MF10,00x1,00	*31,46*	90	20	5,50	7,0
MF10,00x1,25	*35,48*	100	24	5,50	7,0
M10,00x1,50	*28,07*	100	24	5,50	7,0
MF12,00x1,00	*40,16*	100	22	7,00	9,0
MF12,00x1,25	*37,82*	100	22	7,00	9,0
MF12,00x1,50	*38,57*	100	22	7,00	9,0
M12,00x1,75	*33,99*	100	29	7,00	9,0
MF14,00x1,25	*62,68*	100	22	9,00	11,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
MF14,00x1,50	*42,93*	100	22	9,00	11,0
M14,00x2,00	*42,66*	110	30	9,00	11,0
MF16,00x1,50	*51,57*	100	22	9,00	12,0
M16,00x2,00	*50,72*	110	30	9,00	12,0
MF18,00x1,50	*63,02*	125	34	11,00	14,0
M18,00x2,50	*63,77*	125	34	11,00	14,0
MF20,00x1,50	*69,62*	125	25	12,00	16,0
M20,00x2,50	*67,66*	140	34	12,00	16,0
M22,00x2,50	*81,92*	140	34	14,50	18,00
M24,00x3,00	*94,82*	160	38	14,50	18,00

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

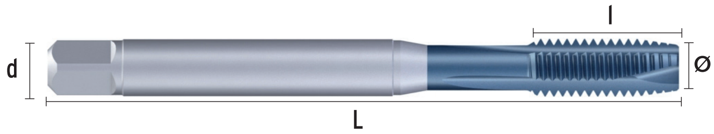
2126 HSSE-PM DIN 371

M DIN 13 | Form. B "Gun" | Tol. 6H | R | TICN

Aceros 800 - 1100 N/mm^2 — **Aciers / Steel** — TI F

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	◻ mm	d mm
M3 x 0,50	*24,45*	56	11	2,70	3,5
M4 x 0,70	*24,73*	63	13	3,40	4,5
M5 x 0,80	*26,70*	70	14	4,90	6,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M6 x 1,00	*27,57*	80	18	4,90	6,0
M8 x 1,25	*33,01*	90	20	6,20	8,0
M10 x 1,50	*43,43*	100	20	8,00	10 0

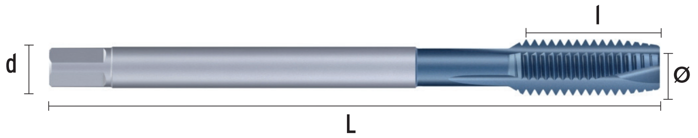
2125 HSSE-PM DIN 376/374

M DIN 13 | Form. B "Gun" | Tol. 6H | D | TICN

Aceros 800 - 1100 N/mm^2 — **Aciers / Steel** — TI F

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	◻ mm	d mm
MF8,00x1,00	*42,50*	90	22	4,90	6,0
M8,00x1,25	*37,99*	90	22	4,90	6,0
MF10,00x1,00	*51,18*	90	20	5,50	7,0
MF10,00x1,25	*55,20*	100	24	5,50	7,0
M10,00x1,50	*47,79*	100	24	5,50	7,0
MF12,00x1,00	*66,55*	100	22	7,00	9,0
MF12,00x1,25	*66,86*	100	22	7,00	9,0
MF12,00x1,50	*67,42*	100	22	7,00	9,0
M12,00x1,75	*60,40*	110	29	7,00	9,0
MF14,00x1,25	*101,36*	100	22	9,00	11,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
MF14,00x1,50	*80,20*	100	22	9,00	11,0
M14,00x2,00	*79,93*	110	30	9,00	11,0
MF16,00x1,50	*87,38*	100	22	9,00	12,0
M16,00x2,00	*86,52*	110	30	9,00	12,0
MF18,00x1,50	*111,60*	125	34	11,00	14,0
M18,00x2,50	*112,93*	125	34	11,00	14,0
MF20,00x1,50	*123,17*	125	25	12,00	16,0
M20,00x2,50	*121,20*	140	34	12,00	16,0
M22,00x2,50	*135,46*	140	34	14,50	18,00
M24,00x3,00	*148,37*	160	38	14,50	18,00

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

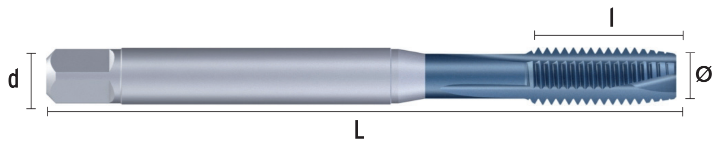
2176 HSSE-PM DIN 371

M DIN 13 | Form. B "Gun" | Tol. 6HX | R | TICN

Aceros 1100 - 1400 N/mm² — Aciers / Steel — TI | 1100 N/mm2 | INOX | F | PL

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M3 x 0,50	*34,74*	56	5	2,70	3,5
M4 x 0,70	*34,74*	63	13	3,40	4,5
M5 x 0,80	*31,45*	70	14	4,90	6,0

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M6 x 1,00	*32,31*	80	18	4,90	6,0
M8 x 1,25	*38,46*	90	20	6,20	8,0
M10 x 1,50	*50,39*	100	20	8,00	10,0

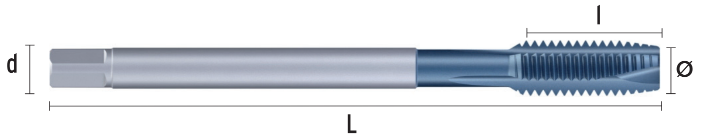
2175 HSSE-PM DIN 376

M DIN 13 | Form. B "Gun" | Tol. 6HX | D | TICN

Aceros 1100 - 1400 N/mm² — Aciers / Steel — TI | 1100 N/mm2 | INOX | F | PL

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M8 x 1,25	*42,28*	90	22	4,90	6,0
M10 x 1,50	*55,43*	100	24	5,50	7,0
M12 x 1,75	*70,36*	110	29	7,00	9,0
M14 x 2,00	*97,47*	110	30	9,00	11,0

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M16 x 2,00	*101,12*	110	32	9,00	12,0
M18 x 2,50	*146,52*	125	34	11,00	14,0
M20 x 2,50	*165,10*	140	34	12,00	16,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2122 HSSE DIN 371

M DIN 13 | Form. B "Gun" | Tol. 6H | R | VAP

Aceros inox — **Aciers inox / Stainless Steel** — 800 N/mm2 | 1100 N/mm2 | TI

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	⌀ mm	d mm
M3 x 0,50	*17,17*	56	11	2,70	3,5
M4 x 0,70	*17,17*	63	13	3,40	4,5
M5 x 0,80	*17,17*	70	14	4,90	6,0

Ø x P mm	€	L mm	l mm	⌀ mm	d mm
M6 x 1,00	*18,86*	80	19	4,90	6,0
M8 x 1,25	*21,47*	90	22	6,20	8,0
M10 x 1,50	*25,20*	100	24	8,00	10,0

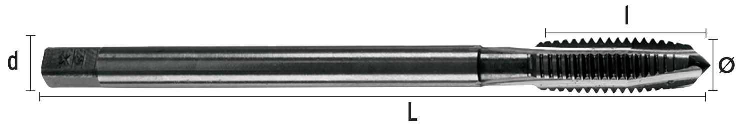
2121 HSSE DIN 376/374

M DIN 13 | Form. B "Gun" | Tol. 6H | D | VAP

Aceros inox — **Aciers inox / Stainless Steel** — 800 N/mm2 | 1100 N/mm2 | TI

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	⌀ mm	d mm
MF8,00x1,00	*25,99*	90	22	4,90	6,0
M8,00x1,25	*21,47*	90	22	4,90	6,0
MF10,00x1,00	*28,59*	90	20	5,50	7,0
MF10,00x1,25	*32,61*	100	24	5,50	7,0
M10,00x1,50	*25,20*	100	24	5,50	7,0
MF12,00x1,00	*39,00*	100	22	7,00	9,0
MF12,00x1,25	*39,30*	100	22	7,00	9,0
MF12,00x1,50	*39,62*	100	22	7,00	9,0
M12,00x1,75	*32,84*	110	29	7,00	9,0
MF14,00x1,25	*53,05*	100	22	9,00	11,0

Ø x P mm	€	L mm	l mm	⌀ mm	d mm
MF14,00x1,50	*42,09*	100	22	9,00	11,0
M14,00x2,00	*41,83*	110	30	9,00	11,0
MF16,00x1,50	*50,08*	100	22	9,00	12,0
M16,00x2,00	*49,22*	110	30	9,00	12,0
MF18,00x1,50	*69,00*	125	34	11,00	14,0
M18,00x2,50	*69,83*	125	34	11,00	14,0
MF20,00x1,50	*103,82*	125	25	12,00	16,0
M20,00x2,50	*75,32*	140	34	12,00	16,0
M22,00x2,50	*81,34*	140	34	14,50	18,00
M24,00x3,00	*87,85*	160	38	14,50	18,00

MACHOS DE MÁQUINA

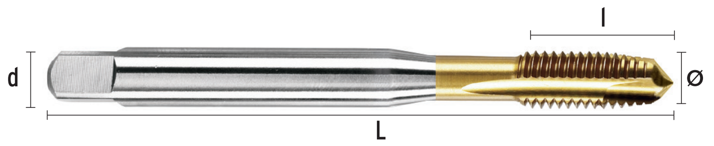
TARAUDS MACHINE / MACHINE TAPS

2219 HSSE DIN 371

M DIN 13 | Form. B "Gun" | Tol. 6H | R | TIN

Aceros inox — Aciers inox / Stainless Steel — 800 N/mm2 — 1100 N/mm2 — TI

Aplicaciones / Applications



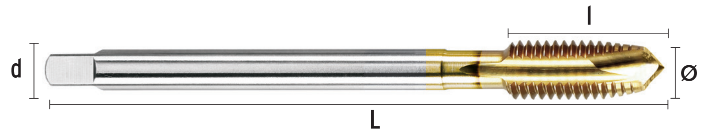
Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	*21,29*	56	11	2,70	3,5
M4 x 0,70	*22,08*	63	13	3,40	4,5
M5 x 0,80	*22,08*	70	16	4,90	6,0
M6 x 1,00	*23,78*	80	19	4,90	6,0
M8 x 1,25	*27,45*	90	22	6,20	8,0
M10 x 1,50	*33,85*	100	24	8,00	10,0

2220 HSSE DIN 376/374

M DIN 13 | Form. B "Gun" | Tol. 6H | D | TIN

Aceros inox — Aciers inox / Stainless Steel — 800 N/mm2 — 1100 N/mm2 — TI

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
MF8,00x1,00	*31,96*	90	22	4,90	6,0
M8,00x1,25	*27,45*	90	22	4,90	6,0
MF10,00x1,00	*37,25*	90	20	5,50	7,0
MF10,00x1,25	*41,27*	100	24	5,50	7,0
M10,00x1,50	*33,85*	100	24	5,50	7,0
MF12,00x1,00	*46,51*	100	22	7,00	9,0
MF12,00x1,25	*46,81*	100	22	7,00	9,0
MF12,00x1,50	*47,13*	100	22	7,00	9,0
M12,00x1,75	*40,36*	110	29	7,00	9,0
MF14,00x1,25	*62,91*	100	22	9,00	11,0
MF14,00x1,50	*49,87*	100	22	9,00	11,0
M14,00x2,00	*49,61*	110	30	9,00	11,0
MF16,00x1,50	*57,05*	100	22	9,00	12,0
M16,00x2,00	*56,20*	110	30	9,00	12,0
MF18,00x1,50	*75,79*	125	34	11,00	14,0
M18,00x2,50	*76,69*	125	34	11,00	14,0
MF20,00x1,50	*119,07*	125	25	12,00	16,0
M20,00x2,50	*90,56*	140	34	12,00	16,0
M22,00x2,50	*96,59*	140	34	14,50	18,00
M24,00x3,00	*103,09*	160	38	14,50	18,00

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

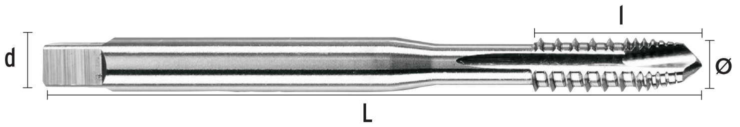
2133 HSSE DIN 371

M DIN 13 | B-AZ | Tol. 6H | R

Aluminio — **Aluminium**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M3 x 0,50	*18,68*	56	11	2,70	3,5
M4 x 0,70	*18,68*	63	13	3,40	4,5
M5 x 0,80	*18,68*	70	16	4,90	6,0

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M6 x 1,00	*19,67*	80	19	4,90	6,0
M8 x 1,25	*23,53*	90	22	6,20	8,0
M10 x 1,50	*27,72*	100	24	8,00	10,0

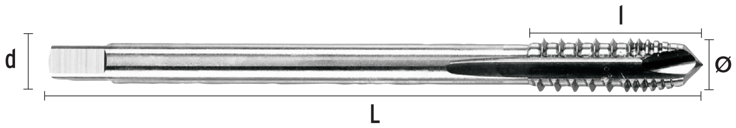
2132 HSSE DIN 376

M DIN 13 | B-AZ | Tol. 6H | D

Aluminio — **Aluminium**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M4 x 0,70	*18,68*	63	13	2,10	2,8
M5 x 0,80	*18,68*	70	16	2,70	3,5
M6 x 1,00	*19,67*	80	19	3,40	4,5
M8 x 1,25	*23,53*	90	22	4,90	6,0

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M10 x 1,50	*27,72*	100	24	5,50	7,0
M12 x 1,75	*34,98*	110	29	7,00	9,0
M14 x 2,00	*43,56*	110	30	9,00	11,0
M16 x 2,00	*57,76*	110	30	9,00	12,0

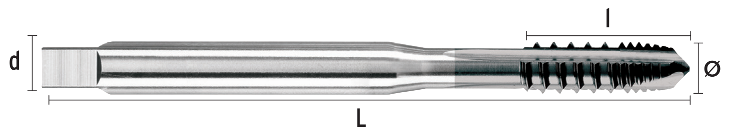
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2184 HSSE DIN 371 | M DIN 13 | B-AZ | Tol. 6H | R | CrN

Aluminio — **Aluminium**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M3 x 0,50	*26,44*	56	11	2,70	3,5
M4 x 0,70	*27,40*	63	13	3,40	4,5
M5 x 0,80	*27,73*	70	16	4,90	6,0

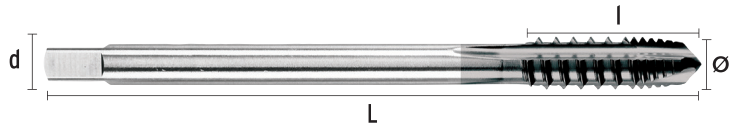
Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M6 x 1,00	*28,74*	80	19	4,90	6,0
M8 x 1,25	*33,89*	90	22	6,20	8,0
M10 x 1,50	*38,99*	100	24	8,00	10,0

2183 HSSE DIN 376 | M DIN 13 | B-AZ | Tol. 6H | D | CrN

Aluminio — **Aluminium**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M4 x 0,70	*27,40*	63	13	2,10	2,8
M5 x 0,80	*27,73*	70	16	2,70	3,5
M6 x 1,00	*28,74*	80	19	3,40	4,5
M8 x 1,25	*33,89*	90	22	4,90	6,0

Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M10 x 1,50	*38,99*	100	24	5,50	7,0
M12 x 1,75	*47,21*	110	29	7,00	9,0
M14 x 2,00	*57,33*	110	30	9,00	11,0
M16 x 2,00	*73,69*	110	30	9,00	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2254 HSSE-PM DIN 371 MULTI

M DIN 13 | Form. B "Gun" | Tol. 6HX | R | HL

Aceros 800-1100 N/mm² Aciers / Steel | Inox / Inox / Stainless | Aluminio / Aluminium / Aluminium | Titanio / Titane / Titanium | Fundición / Fonte / Cast Ion

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	▱ mm	d mm
M3,00x0,50	*29,86*	56	5	2,70	3,5
M4,00x0,70	*31,47*	63	7	3,40	4,5
M5,00x0,80	*34,14*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	▱ mm	d mm
M6,00x1,00	*35,41*	80	10	4,90	6,0
M8,00x1,25	*42,51*	90	13	6,20	8,0
M10,00x1,50	*55,93*	100	15	8,00	10,0

2255 HSSE-PM DIN 376 MULTI

M DIN 13 | Form. B "Gun" | Tol. 6HX | D | HL

Aceros 800-1100 N/mm² Aciers / Steel | Inox / Inox / Stainless | Aluminio / Aluminium / Aluminium | Titanio / Titane / Titanium | Fundición / Fonte / Cast Ion

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	▱ mm	d mm
M12,00x1,75	*82,39*	110	18	7,00	9,0
M14,00x2,00	*107,97*	110	20	9,00	11,0

Ø x P mm	€	L mm	l mm	▱ mm	d mm
M16,00x2,00	*116,15*	110	20	9,00	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

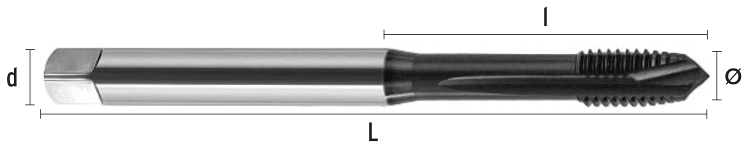
2258 HSSE-PM DIN 371 SYNCHRO

M DIN 13 | Form. B "Gun" | Tol. 6HX | CNC | R | HL

Aceros 800-1100 N/mm² / Aciers / Steel | Inox / Inox / Stainless | Aluminio / Aluminium / Aluminium | Titanio / Titane / Titanium | Fundición / Fonte / Cast Ion

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	◻ mm	d mm
M3,00x0,50	*22,47*	56	5	2,70	3,5
M4,00x0,70	*24,95*	63	7	3,40	4,5
M5,00x0,80	*26,07*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M6,00x1,00	*27,14*	80	10	4,90	6,0
M8,00x1,25	*32,83*	90	13	6,20	8,0
M10,00x1,50	*43,19*	100	15	8,00	10,0

2259 HSSE-PM DIN 376 SYNCHRO

M DIN 13 | Form. B "Gun" | Tol. 6HX | CNC | D | HL

Aceros 800-1100 N/mm² / Aciers / Steel | Inox / Inox / Stainless | Aluminio / Aluminium / Aluminium | Titanio / Titane / Titanium | Fundición / Fonte / Cast Ion

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M12,00x1,75	*64,25*	110	18	7,00	9,0
M14,00x2,00	*86,86*	110	20	9,00	11,0

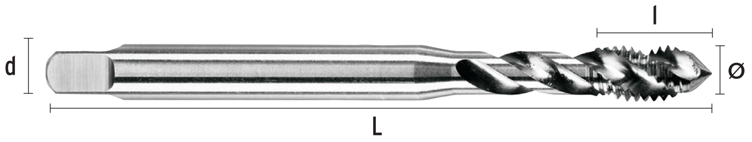
Ø x P mm	€	L mm	l mm	◻ mm	d mm
M16,00x2,00	*91,43*	110	20	9,00	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2106 **HSSE DIN 371** | M DIN 13 | MF DIN 13 | Form. C | Tol. 6HX | 35° | R

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F — 1000 N/mm2

Aplicaciones / Applications



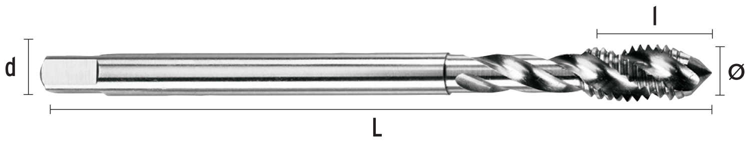
Ø x P mm	€	L mm	l mm	◻ mm	d mm
M2,00 x 0,40	32,13	45	5	2,10	2,8
M2,50 x 0,45	32,13	50	5	2,10	2,8
M2,60 x 0,45	32,13	50	5	2,10	2,8
M3,00 x 0,50	14,28	56	6	2,70	3,5
M3,50 x 0,60	17,62	56	6	3,00	4,0
M4,00 x 0,70	14,28	63	7	3,40	4,5

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M4,50 x 0,75	24,32	70	7	4,90	6,0
M5,00 x 0,80	13,80	70	8	4,90	6,0
M6,00 x 1,00	15,13	80	10	4,90	6,0
M7,00 x 1,00	18,52	80	10	5,50	7,0
M8,00 x 1,25	18,04	90	14	6,20	8,0
M10,00 x 1,50	20,98	100	16	8,00	10,0

2105 **HSSE DIN 376/374** | M DIN 13 | MF DIN 13 | Form. C | Tol. 6H | 35° | D

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	◻ mm	d mm
M3,00 x 0,50	14,28	56	6	2,00	2,2
M4,00 x 0,70	14,28	63	7	2,10	2,8
M5,00 x 0,80	13,80	70	8	2,70	3,5
M6,00 x 1,00	15,13	80	10	3,40	4,5
M7,00 x 1,00	18,52	80	10	4,30	5,5
MF8,00 x 1,00	22,32	90	14	4,90	6,0
M8,00 x 1,25	18,04	90	14	4,90	6,0
MF9,00 x 1,00	28,76	90	14	5,50	7,0
M9,00 x 1,25	27,40	90	14	5,50	7,0
MF10,00 x 1,00	26,35	90	10	5,50	7,0
MF10,00 x 1,25	28,65	100	16	5,50	7,0
M10,00 x 1,50	20,98	100	16	5,50	7,0
MF11,00 x 1,00	83,90	90	11	6,20	8,0
MF11,00 x 1,25	74,84	100	16	6,20	8,0
M11,00 x 1,50	61,13	100	16	6,20	8,0
MF12,00 x 1,00	33,89	100	15	7,00	9,0
MF12,00 x 1,25	32,41	100	15	7,00	9,0
MF12,00 x 1,50	31,21	100	15	7,00	9,0
M12,00 x 1,75	28,02	110	18	7,00	9,0
MF14,00 x 1,00	54,72	100	15	9,00	11,0
MF14,00 x 1,25	46,73	100	15	9,00	11,0
MF14,00 x 1,50	35,19	100	15	9,00	11,0
M14,00 x 2,00	35,97	110	20	9,00	11,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
MF15,00 x 1,50	52,58	100	15	9,00	12,0
MF16,00 x 1,00	114,60	100	15	9,00	12,0
MF16,00 x 1,25	95,11	100	15	9,00	12,0
MF16,00 x 1,50	45,92	100	15	9,00	12,0
M16,00 x 2,00	43,44	110	20	9,00	12,0
MF18,00 x 1,50	58,13	110	22	11,00	14,0
MF18,00 x 2,00	109,55	125	25	11,00	14,0
M18,00 x 2,50	58,41	125	25	11,00	14,0
MF20,00 x 1,50	66,43	125	22	12,00	16,0
M20,00 x 2,50	62,23	140	25	12,00	16,0
MF22,00 x 1,50	71,69	125	22	14,50	18,0
M22,00 x 2,50	76,74	140	25	14,50	18,0
MF24,00 x 1,50	97,41	140	25	14,50	18,0
M24,00 x 3,00	93,69	160	30	14,50	18,0
MF26,00 x 1,50	105,18	140	25	14,50	18,0
MF27,00 x 1,50	120,21	140	25	16,00	20,0
M27,00 x 3,00	114,75	160	30	16,00	20,0
MF28,00 x 1,50	120,21	140	25	16,00	20,0
MF30,00 x 1,50	149,78	150	25	18,00	22,0
MF30,00 x 2,00	316,44	150	25	18,00	22,0
M30,00 x 3,50	147,03	180	35	18,00	22,0
M33,00 x 3,50	176,66	180	35	20,00	25,0
M36,00 x 4,00	238,39	200	40	22,00	28,0

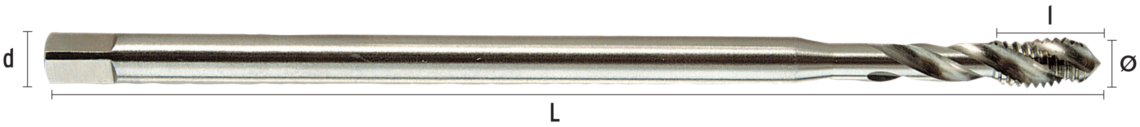
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2112 HSSE DIN 371

M DIN 13 | Form. C | Tol. 6H | 35° | R

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	◻ mm	d mm
M3 x 0,50	*31,47*	100	6	2,70	3,5
M4 x 0,70	*31,47*	100	7	3,40	4,5
M5 x 0,80	*36,29*	120	8	4,90	6,0
M6 x 1,00	*36,29*	120	10	4,90	6,0

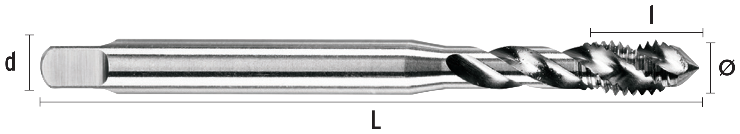
Ø x P mm	€	L mm	l mm	◻ mm	d mm
M8 x 1,25	*45,94*	150	14	6,20	8,0
M10 x 1,50	*55,57*	150	16	8,00	10,0
M12 x 1,75	*57,83*	150	18	9,00	12,0

2166 HSSE DIN 371

M DIN 13 | Form. C | Tol. 6H +0,1 | 35° | R

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	◻ mm	d mm
M3 x 0,50	*23,06*	56	6	2,70	3,5
M4 x 0,70	*23,06*	63	7	3,40	4,5
M5 x 0,80	*22,26*	70	8	4,90	6,0

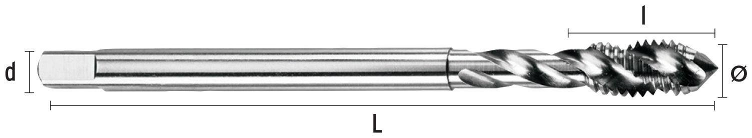
Ø x P mm	€	L mm	l mm	◻ mm	d mm
M6 x 1,00	*24,41*	80	10	4,90	6,0
M8 x 1,25	*29,13*	90	14	6,20	8,0
M10 x 1,50	*34,54*	110	16	8,00	10,0

2165 HSSE DIN 376

M DIN 13 | Form. C | Tol. 6H +0,1 | 35° | D

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	◻ mm	d mm
M8 x 1,25	*29,13*	90	14	4,90	6,0
M10 x 1,50	*34,54*	100	16	5,50	7,0
M12 x 1,75	*38,77*	110	18	7,00	9,0

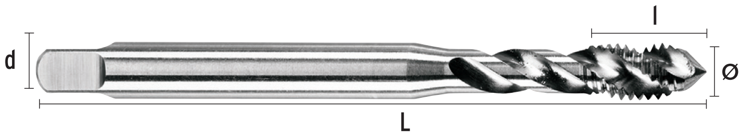
Ø x P mm	€	L mm	l mm	◻ mm	d mm
M14 x 2,00	*55,50*	110	20	9,00	11,0
M16 x 2,00	*67,01*	110	20	9,00	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2170 HSSE DIN 371 | M DIN 13 | Form. C | Tol. 6G | 35° | R

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



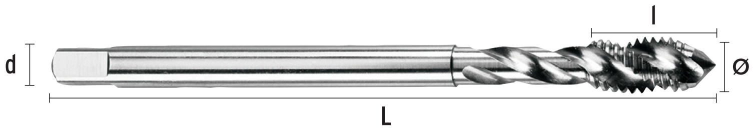
Ø x P mm	€	L mm	l mm	mm	d mm
M3 x 0,50	*20,05*	56	5	2,70	3,5
M4 x 0,70	*20,05*	63	7	3,40	4,5
M5 x 0,80	*19,33*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	mm	d mm
M6 x 1,00	*21,21*	80	10	4,90	6,0
M8 x 1,25	*25,32*	90	14	6,20	8,0
M10 x 1,50	*30,01*	100	16	8,00	10,0

2208 HSSE DIN 376 | M DIN 13 | Form. C | Tol. 6G | 35° | R

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	mm	d mm
M8 x 1,25	*25,32*	90	13	4,90	6,0
M10 x 1,50	*30,01*	100	16	5,50	7,0
M12 x 1,75	*40,05*	110	18	7,00	9,0
M14 x 2,00	*46,26*	110	20	9,00	11,0

Ø x P mm	€	L mm	l mm	mm	d mm
M16 x 2,00	*55,86*	110	20	9,00	12,0
M18 x 2,50	*76,10*	125	25	11,00	14,0
M20 x 2,50	*80,06*	140	25	12,00	16,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2108 HSSE DIN 371 | M DIN 13 | Form. C | Tol. 6H | 15° | R

Aceros 400 - 800 N/mm^2 — Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M2,00 x 0,40	*18,06*	45	8	2,10	2,8
M3,00 x 0,50	*15,15*	56	11	2,70	3,5
M4,00 x 0,70	*14,54*	63	13	3,40	4,5
M5,00 x 0,80	*14,02*	70	14	4,90	6,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M6,00 x 1,00	*15,37*	80	19	4,90	6,0
M7,00 x 1,00	*18,64*	80	19	5,50	7,0
M8,00 x 1,25	*18,36*	90	22	6,20	8,0
M10,00 x 1,50	*21,75*	100	24	8,00	10,0

2107 HSSE DIN 376/374 | M DIN 13 | MF DIN 13 | Form. C | Tol. 6H | 15° | D

Aceros 400 - 800 N/mm^2 — Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M4,00 x 0,70	*14,41*	63	13	2,10	2,8
M5,00 x 0,80	*13,92*	70	16	2,70	3,5
M6,00 x 0,70	*15,37*	80	19	3,40	4,5
M7,00 x 0,80	*18,64*	80	19	4,30	5,5
M8,00 x 0,70	*18,36*	90	22	4,90	6,0
M10,00 x 0,80	*21,75*	100	24	5,50	7,0
M12,00 x 0,70	*29,05*	110	29	7,00	9,0
M14,00 x 0,80	*34,54*	110	30	9,00	11,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M16,00 x 2,00	*41,73*	110	30	9,00	12,0
M18,00 x 2,50	*56,14*	125	34	11,00	14,0
M20,00 x 2,50	*59,81*	140	34	12,00	16,0
M22,00 x 2,50	*73,76*	140	34	14,50	18,0
M24,00 x 3,00	*89,62*	160	38	14,50	18,0
M27,00 x 3,00	*110,31*	160	38	16,00	20,0
M30,00 x 3,50	*141,33*	180	45	18,00	22,0
M36,00 x 4,00	*227,90*	200	56	22,00	28,0

MACHOS DE MÁQUINA

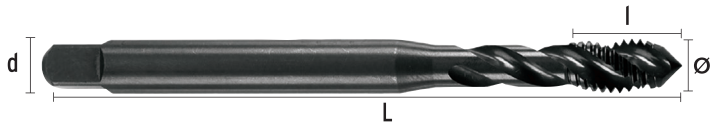
TARAUDS MACHINE / MACHINE TAPS

2252 HSSE DIN 371

M DIN 13 | MF DIN 13 | Form. C | Tol. 6H | 35° | R | VAP

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	mm	d mm
M3,00x0,50	*16,01*	56	6	2,70	3,5
M4,00x0,70	*16,01*	63	7	3,40	4,5
M5,00x0,80	*15,46*	70	8	4,90	6,0

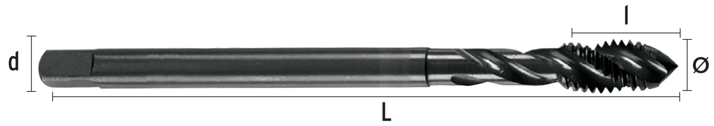
Ø x P mm	€	L mm	l mm	mm	d mm
M6,00x1,00	*16,94*	80	10	4,90	6,0
M8,00x1,25	*20,21*	90	14	6,20	8,0
M10,00x1,50	*23,51*	100	16	8,00	10,0

2253 HSSE DIN 376/374

M DIN 13 | MF DIN 13 | Form. C | Tol. 6H | 35° | D | VAP

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	mm	d mm
MF8,00x1,00	*25,01*	90	14	4,90	6,0
M8,00x1,25	*20,21*	90	14	4,90	6,0
MF10,00x1,00	*29,52*	90	10	5,50	7,0
MF10,00x1,25	*32,09*	100	16	5,50	7,0
M10,00x1,50	*23,51*	100	16	5,50	7,0
MF12,00x1,00	*37,95*	100	15	7,00	9,0
MF12,00x1,25	*36,31*	100	15	7,00	9,0
MF12,00x1,50	*36,92*	100	15	7,00	9,0
M12,00x1,75	*31,38*	110	18	7,00	9,0
MF14,00x1,25	*52,33*	100	22	9,00	11,00

Ø x P mm	€	L mm	l mm	mm	d mm
MF14,00x1,50	*39,41*	100	15	9,00	11,0
M14,00x2,00	*40,29*	110	20	9,00	11,0
MF16,00x1,50	*51,43*	100	15	9,00	12,0
M16,00x2,00	*48,65*	110	20	9,00	12,0
MF18,00x1,50	*65,10*	125	34	11,00	14,0
M18,00x2,50	*65,42*	125	25	11,00	14,0
MF20,00x1,50	*74,40*	125	22	12,00	16,0
M20,00x2,50	*69,70*	140	25	12,00	16,0
M22,00x2,50	*85,94*	140	25	14,50	18,00
M24,00x3,00	*104,93*	160	30	14,50	18,00

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

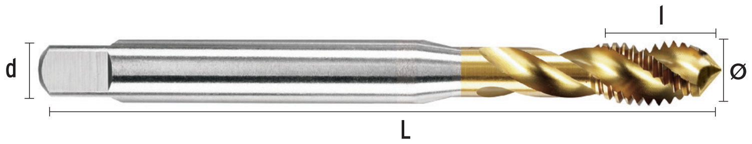
2118 HSSE DIN 371

M DIN 13 | Form. C | Tol. 6H | 35° | R | TIN

Aceros 400 - 800 N/mm² — Aciers / Steel — 800 N/mm2 — F — AL — CU — PL

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	▢ mm	d mm
M3 x 0,50	*19,15*	56	6	2,70	3,5
M4 x 0,70	*20,03*	63	7	3,40	4,5
M5 x 0,80	*19,55*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	▢ mm	d mm
M6 x 1,00	*20,87*	80	10	4,90	6,0
M8 x 1,25	*25,43*	90	14	6,20	8,0
M10 x 1,50	*31,93*	100	16	8,00	10,0

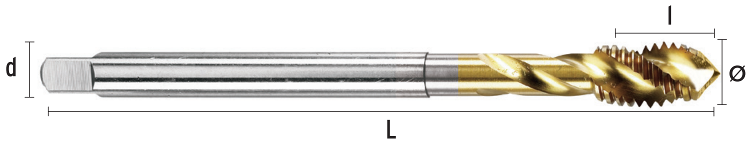
2117 HSSE DIN 376/374

M DIN 13 | Form. C | Tol. 6H | 35° | D | TIN

Aceros 400 - 800 N/mm² — Aciers / Steel — 800 N/mm2 — F — AL — CU — PL

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	▢ mm	d mm
MF8,00x1,00	*29,71*	90	14	4,90	6,0
M8,00x1,25	*25,43*	90	14	4,90	6,0
MF10,00x1,00	*37,30*	90	10	5,50	7,0
MF10,00x1,25	*39,60*	100	16	5,50	7,0
M10,00x1,50	*31,93*	100	16	5,50	7,0
MF12,00x1,00	*45,95*	100	15	7,00	9,0
MF12,00x1,25	*44,48*	100	15	7,00	9,0
MF12,00x1,50	*45,69*	100	15	7,00	9,0
M12,00x1,75	*40,09*	110	18	7,00	9,0
MF14,00x1,25	*64,50*	100	22	9,00	11,00

Ø x P mm	€	L mm	l mm	▢ mm	d mm
MF14,00x1,50	*48,88*	100	15	9,00	11,0
M14,00x2,00	*49,66*	110	20	9,00	11,0
MF16,00x1,50	*60,97*	100	15	9,00	12,0
M16,00x2,00	*58,49*	110	20	9,00	12,0
MF18,00x1,50	*73,10*	125	34	11,00	14,0
M18,00x2,50	*73,46*	125	25	11,00	14,0
MF20,00x1,50	*81,46*	125	22	12,00	16,0
M20,00x2,50	*77,28*	140	25	12,00	16,0
M22,00x2,50	*91,77*	140	25	14,50	18,00
M24,00x3,00	*108,73*	160	30	14,50	18,00

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

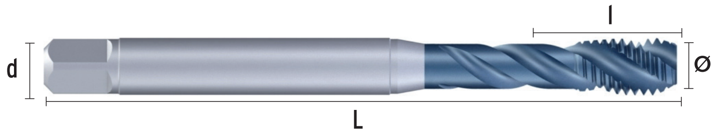
2124 HSSE-PM DIN 371

M DIN 13 | Form. C | Tol. 6H | 35° | R | TiCN

Aceros 800 - 1100 N/mm² — **Aciers / Steel** — TI | F

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	*26,46*	56	5	2,70	3,5
M4 x 0,70	*26,88*	63	7	3,40	4,5
M5 x 0,80	*29,01*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M6 x 1,00	*29,89*	80	10	4,90	6,0
M8 x 1,25	*38,51*	90	13	6,20	8,0
M10 x 1,50	*46,68*	100	15	8,00	10,0

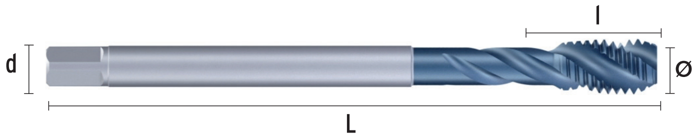
2123 HSSE-PM DIN 376/374

M DIN 13 | Form. C | Tol. 6H | 35° | D | TiCN

Aceros 800 - 1100 N/mm² — **Aciers / Steel** — TI | F

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
MF8,00x1,00	*42,79*	90	14	4,90	6,0
M8,00x1,25	*38,51*	90	14	4,90	6,0
MF10,00x1,00	*52,06*	90	10	5,50	7,0
MF10,00x1,25	*54,35*	100	16	5,50	7,0
M10,00x1,50	*46,68*	100	16	5,50	7,0
MF12,00x1,00	*77,51*	100	15	7,00	9,0
MF12,00x1,25	*76,03*	100	15	7,00	9,0
MF12,00x1,50	*77,58*	100	15	7,00	9,0
M12,00x1,75	*71,65*	110	18	7,00	9,0
MF14,00x1,25	*112,15*	100	22	9,00	11,00

Ø x P mm	€	L mm	l mm	□ mm	d mm
MF14,00x1,50	*85,56*	100	15	9,00	11,0
M14,00x2,00	*86,34*	110	20	9,00	11,0
MF16,00x1,50	*96,01*	100	15	9,00	12,0
M16,00x2,00	*93,52*	110	20	9,00	12,0
MF18,00x1,50	*118,34*	125	34	11,00	14,0
M18,00x2,50	*118,91*	125	25	11,00	14,0
MF20,00x1,50	*131,56*	125	22	12,00	16,0
M20,00x2,50	*127,36*	140	25	12,00	16,0
M22,00x2,50	*141,87*	140	25	14,50	18,00
M24,00x3,00	*158,82*	160	30	14,50	18,00

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

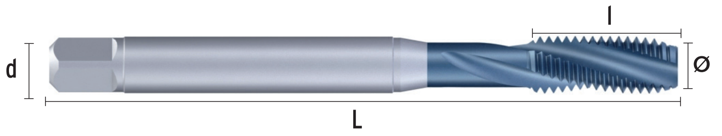
2178 HSSE-PM DIN 371

M DIN 13 | Form. C | Tol. 6HX | 15º | R | TICN

Aceros 1100 - 1400 N/mm² — Aciers / Steel — TI | 1100 N/mm2 | INOX | F | PL

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	▢ mm	d mm
M3 x 0,50	29,60	56	11	2,70	3,5
M4 x 0,70	29,60	63	13	3,40	4,5
M5 x 0,80	31,45	70	15	4,90	6,0
M6 x 1,00	33,65	80	17	4,90	6,0
M8 x 1,25	38,51	90	20	6,20	8,0
M10 x 1,50	50,39	100	20	8,00	10,0

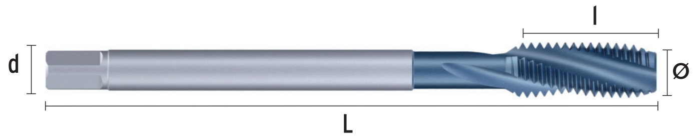
2177 HSSE-PM DIN 376

M DIN 13 | Form. C | Tol. 6HX | 15º | D | TICN

Aceros 1100 - 1400 N/mm² — Aciers / Steel — TI | 1100 N/mm2 | INOX | F | PL

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	▢ mm	d mm
M8 x 1,25	42,28	90	22	4,90	6,0
M10 x 1,50	55,43	100	24	5,50	7,0
M12 x 1,75	70,31	110	29	7,00	9,0
M14 x 2,00	97,47	110	30	9,00	11,0
M16 x 2,00	101,05	110	32	9,00	12,0
M18 x 2,50	137,76	125	34	11,00	14,0
M20 x 2,50	154,22	140	34	12,00	16,0

MACHOS DE MÁQUINA

TARAUDS MACHINE / MACHINE TAPS

2120 HSSE DIN 371

M DIN 13 | Form. C | Tol. 6H | 35° | R | VAP

Aceros inox — Aciers inox / Stainless Steel — 800 N/mm2 — 1100 N/mm2 — TI

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M3 x 0,50	18,86	56	6	2,70	3,5
M4 x 0,70	18,86	63	7	3,40	4,5
M5 x 0,80	18,86	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M6 x 1,00	20,14	80	10	4,90	6,0
M8 x 1,25	23,65	90	14	6,20	8,0
M10 x 1,50	28,86	100	16	8,00	10,0

2119 HSSE DIN 376/374

M DIN 13 | Form. C | Tol. 6H | 35° | D | VAP

Aceros inox — Aciers inox / Stainless Steel — 800 N/mm2 — 1100 N/mm2 — TI

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	◻ mm	d mm
MF8,00x1,00	27,93	90	14	4,90	6,0
M8,00x1,25	23,65	90	14	4,90	6,0
MF10,00x1,00	34,23	90	10	5,50	7,0
MF10,00x1,25	36,53	100	16	5,50	7,0
M10,00x1,50	28,86	100	16	5,50	7,0
MF12,00x1,00	44,89	100	15	7,00	9,0
MF12,00x1,25	43,42	100	15	7,00	9,0
MF12,00x1,50	44,99	100	15	7,00	9,0
M12,00x1,75	39,03	110	18	7,00	9,0
MF14,00x1,25	63,02	100	22	9,00	11,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
MF14,00x1,50	47,74	100	15	9,00	11,0
M14,00x2,00	48,52	110	20	9,00	11,0
MF16,00x1,50	61,12	100	15	9,00	12,0
M16,00x2,00	58,64	110	20	9,00	12,0
MF18,00x1,50	78,27	125	34	11,00	14,0
M18,00x2,50	78,81	125	25	11,00	14,0
MF20,00x1,50	88,18	125	22	12,00	16,0
M20,00x2,50	83,98	140	25	12,00	16,0
M22,00x2,50	89,49	140	25	14,50	18,00
M24,00x3,00	94,87	160	30	14,50	18,00

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

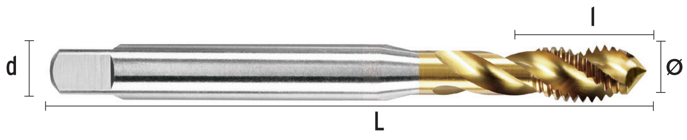
2221 HSSE DIN 371

M DIN 13 | Form. C | Tol. 6H | 35° | R | TIN

Aceros inox — Aciers inox / Stainless Steel — 800 N/mm2 — 1100 N/mm2 — TI

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	*22,97*	56	6	2,70	3,5
M4 x 0,70	*23,78*	63	7	3,40	4,5
M5 x 0,80	*23,78*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M6 x 1,00	*25,04*	80	10	4,90	6,0
M8 x 1,25	*29,63*	90	14	6,20	8,0
M10 x 1,50	*37,51*	100	16	8,00	10,0

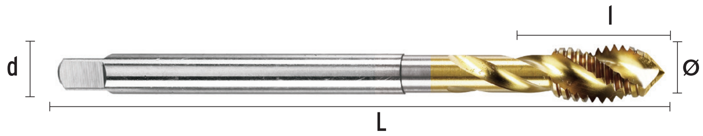
2222 HSSE DIN 376/374

M DIN 13 | Form. C | Tol. 6H | 35° | D | TIN

Aceros inox — Aciers inox / Stainless Steel — 800 N/mm2 — 1100 N/mm2 — TI

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
MF8,00x1,00	*33,92*	90	14	4,90	6,0
M8,00x1,25	*29,64*	90	14	4,90	6,0
MF10,00x1,00	*63,88*	90	10	5,50	7,0
MF10,00x1,25	*66,18*	100	16	5,50	7,0
M10,00x1,50	*37,52*	100	16	5,50	7,0
MF12,00x1,00	*52,41*	100	15	7,00	9,0
MF12,00x1,25	*50,93*	100	15	7,00	9,0
MF12,00x1,50	*52,32*	100	15	7,00	9,0
M12,00x1,75	*46,55*	110	18	7,00	9,0
MF14,00x1,25	*73,13*	100	22	9,00	11,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
MF14,00x1,50	*55,52*	100	15	9,00	11,0
M14,00x2,00	*56,30*	110	20	9,00	11,0
MF16,00x1,50	*68,09*	100	15	9,00	12,0
M16,00x2,00	*65,61*	110	20	9,00	12,0
MF18,00x1,50	*85,26*	125	34	11,00	14,0
M18,00x2,50	*85,66*	125	25	11,00	14,0
MF20,00x1,50	*103,43*	125	22	12,00	16,0
M20,00x2,50	*99,23*	140	25	12,00	16,0
M22,00x2,50	*104,74*	140	25	14,50	18,00
M24,00x3,00	*110,11*	160	30	14,50	18,00

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

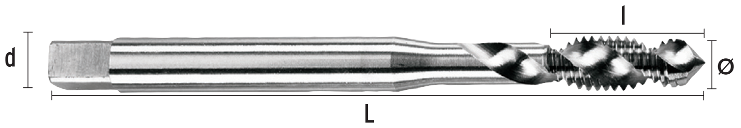
2182 HSSE DIN 371

M DIN 13 | Form. C | Tol. 6H | 45° | R

Aluminio — **Aluminium**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	mm	d mm
M3 x 0,50	16,91	56	11	2,70	3,5
M4 x 0,70	16,91	63	13	3,40	4,5
M5 x 0,80	17,25	70	16	4,90	6,0

Ø x P mm	€	L mm	l mm	mm	d mm
M6 x 1,00	18,71	80	19	4,90	6,0
M8 x 1,25	22,34	90	22	6,20	8,0
M10 x 1,50	26,39	100	24	8,00	10,0

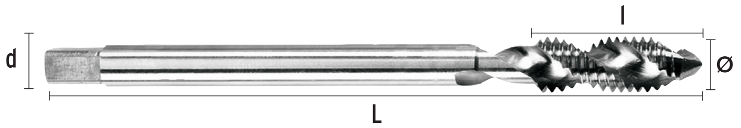
2181 HSSE DIN 376

M DIN 13 | Form. C | Tol. 6H | 45° | D

Aluminio — **Aluminium**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	mm	d mm
M6 x 1,00	18,71	80	19	3,40	4,5
M8 x 1,25	22,34	90	22	4,90	6,0
M10 x 1,50	26,39	100	24	5,50	7,0

Ø x P mm	€	L mm	l mm	mm	d mm
M12 x 1,75	31,38	110	29	7,00	9,0
M14 x 2,00	45,87	110	30	9,00	11,0
M16 x 2,00	61,86	110	30	9,00	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

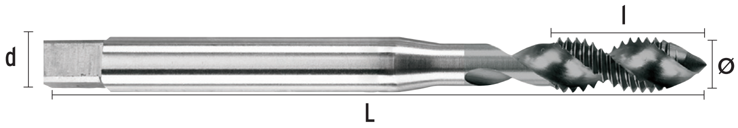
2186 HSSE DIN 371

M DIN 13 | Form. C | Tol. 6H | 45° | R | CrN

Aluminio — **Aluminium**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	24,67	56	11	2,70	3,5
M4 x 0,70	25,63	63	13	3,40	4,5
M5 x 0,80	26,32	70	16	4,90	6,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M6 x 1,00	27,78	80	19	4,90	6,0
M8 x 1,25	32,72	90	22	6,20	8,0
M10 x 1,50	37,66	100	24	8,00	10,0

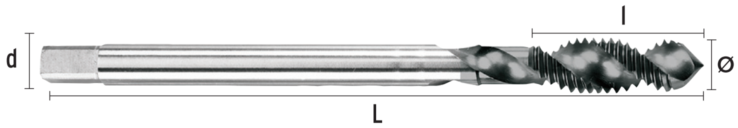
2185 HSSE DIN 376

M DIN 13 | Form. C | Tol. 6H | 45° | D | CrN

Aluminio — **Aluminium**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M6 x 1,00	27,78	80	19	3,40	4,5
M8 x 1,25	32,72	90	22	4,90	6,0
M10 x 1,50	37,66	100	24	5,50	7,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
M12 x 1,75	43,59	110	29	7	9,0
M14 x 2,00	59,66	110	30	9	11,0
M16 x 2,00	77,83	110	30	9	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2256 HSSE-PM DIN 371 MULTI

M DIN 13 | Form. C | Tol. 6HX | 45° | R | HL

Aceros 800-1100 N/mm² / Aciers / Steel | Inox / Inox / Stainless | Aluminio / Aluminium / Aluminium | Titanio / Titane / Titanium | Fundición / Fonte / Cast Ion

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M3,00x0,50	*33,17*	56	5	2,70	3,5
M4,00x0,70	*34,97*	63	7	3,40	4,5
M5,00x0,80	*37,93*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M6,00x1,00	*39,30*	80	10	4,90	6,0
M8,00x1,25	*47,27*	90	13	6,20	8,0
M10,00x1,50	*62,11*	100	15	8,00	10,0

2257 HSSE-PM DIN 376 MULTI

M DIN 13 | Form. C | Tol. 6HX | 45° | D | HL

Aceros 800-1100 N/mm² / Aciers / Steel | Inox / Inox / Stainless | Aluminio / Aluminium / Aluminium | Titanio / Titane / Titanium | Fundición / Fonte / Cast Ion

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M12,00x1,75	*91,54*	110	18	7,00	9,0
M14,00x2,00	*119,99*	110	20	9,00	11,0

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
M16,00x2,00	*128,99*	110	20	9,00	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

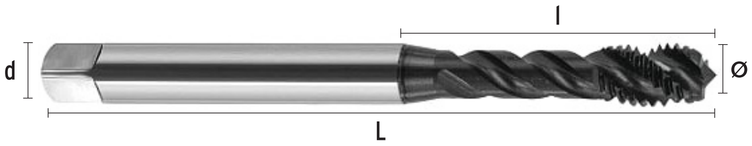
2260 HSSE-PM DIN 371 SYNCHRO

M DIN 13 | Form. C | Tol. 6HX | 45° | CNC | R | HL

Aceros 800-1100 N/mm² / Aciers / Steel | Inox / Inox / Stainless | Aluminio / Aluminium / Aluminium | Titanio / Titane / Titanium | Fundición / Fonte / Cast Ion

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	☐ mm	d mm
M3,00x0,50	*26,56*	56	5	2,70	3,5
M4,00x0,70	*27,97*	63	7	3,40	4,5
M5,00x0,80	*30,35*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
M6,00x1,00	*31,47*	80	10	4,90	6,0
M8,00x1,25	*37,79*	90	13	6,20	8,0
M10,00x1,50	*49,70*	100	15	8,00	10,0

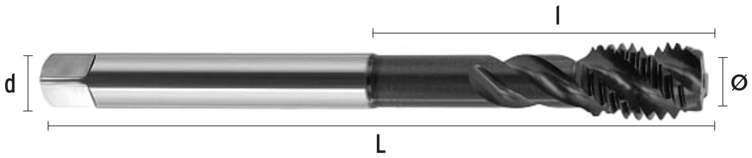
2261 HSSE-PM DIN 376 SYNCHRO

M DIN 13 | Form. C | Tol. 6HX | 45° | CNC | D | HL

Aceros 800-1100 N/mm² / Aciers / Steel | Inox / Inox / Stainless | Aluminio / Aluminium / Aluminium | Titanio / Titane / Titanium | Fundición / Fonte / Cast Ion

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	☐ mm	d mm
M12,00x1,75	*79,81*	110	18	7,00	9,0
M14,00x2,00	*104,57*	110	20	9,00	11,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
M16,00x2,00	*155,93*	110	20	9,00	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

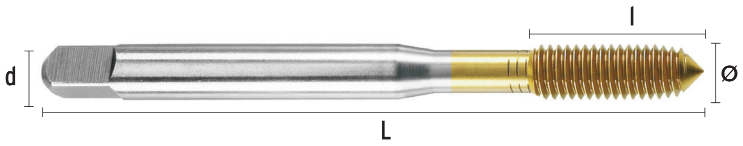
2188 HSSE-PM DIN 371

A>12% | M DIN 13 | Form. C | Tol. 6HX | R | TIN

Aceros 800 - 1100 N/mm² — **Aciers / Steel** — AL inox

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	mm	d mm
M3 x 0,50	*27,51*	56	10	2,70	3,5
M4 x 0,70	*27,51*	63	7	3,40	4,5
M5 x 0,80	*30,90*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	mm	d mm
M6 x 1,00	*33,69*	80	10	4,90	6,0
M8 x 1,25	*45,37*	90	13	6,20	8,0
M10 x 1,50	*55,18*	100	15	8,00	10,0

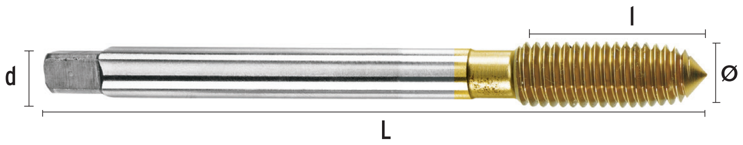
2187 HSSE-PM DIN 376

A>12% | M DIN 13 | Form. C | Tol. 6HX | D | TIN

Aceros 800 - 1100 N/mm² — **Aciers / Steel** — AL inox

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	mm	d mm
M12 x 1,75	*68,59*	110	18	7,00	9,0
M14 x 2,00	*94,52*	110	26	9,00	11,0

Ø x P mm	€	L mm	l mm	mm	d mm
M16 x 2,00	*114,86*	110	27	9,00	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

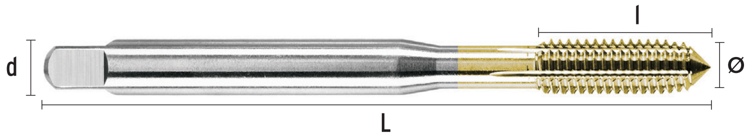
2214 HSSE-PM DIN 371

A>12% | M DIN 13 | Form. C | Tol. 6HX | R | TIN

Aceros 800 - 1100 N/mm² — **Aciers / Steel** — AL inox

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	◻ mm	d mm
M3 x 0,50	28,86	56	10	2,70	3,5
M4 x 0,70	28,86	63	7	3,40	4,5
M5 x 0,80	32,34	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
M6 x 1,00	35,12	80	10	4,90	6,0
M8 x 1,25	47,11	90	13	6,20	8,0
M10 x 1,50	57,13	100	15	8,00	10,0

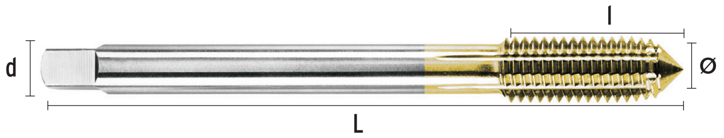
2213 HSSE-PM DIN 376

A>12% | M DIN 13 | Form. C | Tol. 6HX | D | TIN

Aceros 800 - 1100 N/mm² — **Aciers / Steel** — AL inox

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	◻ mm	d mm
MF8,00x1,00	74,60	90	22	4,90	6,0
M8,00x1,25	47,11	90	22	4,90	6,0
MF10,00x1,00	54,25	90	20	5,50	7,0
MF10,00x1,25	84,60	100	24	5,50	7,0
M10,00x1,50	57,13	100	24	5,50	7,0
MF12,00x1,00	62,95	100	22	7,00	9,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
MF12,00x1,25	87,02	100	22	7,00	9,0
MF12,00x1,50	85,15	100	22	7,00	9,0
M12,00x1,75	73,33	110	29	7,00	9,0
M14,00x2,00	103,17	110	26	9,00	11,0
MF16,00x1,50	128,50	100	22	9,00	12,0
M16,00x2,00	123,53	110	27	9,00	12,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

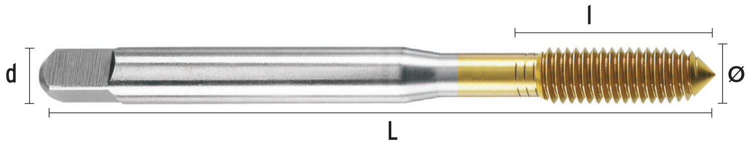
2216 HSSE-PM DIN 371

A>12% | M DIN 13 | Form. C | Tol. 6GX | R | TIN

Aceros 800 - 1100 N/mm² — Aciers / Steel — AL inox

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	*27,51*	56	10	2,70	3,5
M4 x 0,70	*27,51*	63	7	3,40	4,5
M5 x 0,80	*30,90*	70	8	4,90	6,0
M6 x 1,00	*33,69*	80	10	4,90	6,0
M8 x 1,25	*45,37*	90	13	6,20	8,0
M10 x 1,50	*55,18*	100	15	8,00	10,0

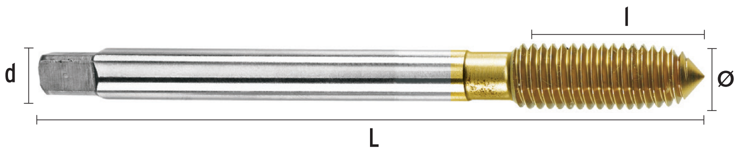
2215 HSSE-PM DIN 376

A>12% | M DIN 13 | Form. C | Tol. 6GX | D | TIN

Aceros 800 - 1100 N/mm² — Aciers / Steel — AL inox

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M12 x 1,75	*68,59*	110	18	7,00	9,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

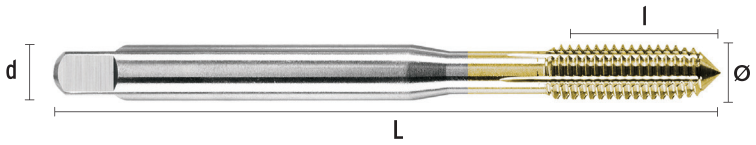
2218 HSSE-PM DIN 371

A>12% | M DIN 13 | Form. C | Tol. 6GX | R | TIN

Aceros 800 - 1100 N/mm² — Aciers / Steel — AL inox

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M3 x 0,50	*28,86*	56	10	2,70	3,5
M4 x 0,70	*28,86*	63	7	3,40	4,5
M5 x 0,80	*32,34*	70	8	4,90	6,0
M6 x 1,00	*35,12*	80	10	4,90	6,0
M8 x 1,25	*47,11*	90	13	6,20	8,0
M10 x 1,50	*57,13*	100	15	8,00	10,0

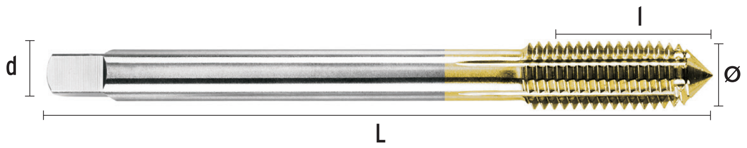
2217 HSSE-PM DIN 376

A>12% | M DIN 13 | Form. C | Tol. 6GX | D | TIN

Aceros 800 - 1100 N/mm² — Aciers / Steel — AL inox

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	□ mm	d mm
M12 x 1,75	*73,33*	110	18	7,00	9,0

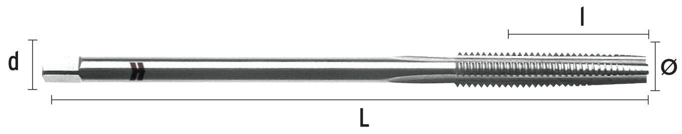
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2199 HSSE DIN 357

M DIN 13 | Tol. 6H | D

Aceros 400 - 800 N/mm^2 — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	☒ mm	Z	d mm
M3 x 0,50	*25,21*	70	22	-	3	2,2
M4 x 0,70	*25,21*	90	25	2,10	3	2,8
M5 x 0,80	*25,93*	100	28	2,70	3	3,5
M6 x 1,00	*24,04*	110	32	3,40	3	4,5
M8 x 1,25	*28,09*	125	40	4,90	3	6,0
M10 x 1,50	*43,21*	140	45	5,50	3	7,0
M12 x 1,75	*51,84*	180	50	7,00	3	9,0

Ø x P mm	€	L mm	l mm	☒ mm	Z	d mm
M14 x 2,00	*57,59*	200	56	9,00	3	11,0
M16 x 2,00	*70,57*	200	63	9,00	3	12,0
M18 x 2,50	*86,40*	220	63	11,00	4	14,0
M20 x 2,50	*100,07*	250	70	12,00	4	16,0
M22 x 2,50	*128,14*	280	80	14,50	4	18,0
M24 x 3,00	*151,17*	280	80	14,50	4	18,0

2134 HSSE

M DIN 13 | 16-18 tpi | Tol. 6H | D

Aceros 400 - 800 N/mm^2 — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications

Ø x P mm	€	L mm	l mm	d mm
M3 x 0,50	*69,10*	280	12	2,5
M4 x 0,70	*68,13*	280	17	3,0
M5 x 0,80	*68,13*	280	20	3,8
M6 x 1,00	*68,13*	280	25	4,5
M8 x 1,25	*72,27*	280	31	6,1
M10 x 1,50	*83,77*	280	37	7,8
M12 x 1,75	*130,63*	420	43	9,4

Ø x P mm	€	L mm	l mm	d mm
M14 x 2,00	*126,17*	420	50	11,0
M16 x 2,00	*177,44*	420	50	12,9
M18 x 2,50	*219,13*	530	62	14,2
M20 x 2,50	*289,79*	530	63	16,1
M22 x 2,50	*334,73*	530	62	18,0
M24 x 3,00	*468,84*	530	75	19,2

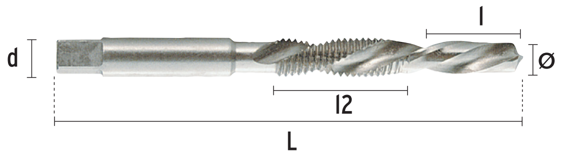
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2806 HSSE DIN 13

M DIN 13 | Tol. 6H

Aceros 400 - 800 N/mm² | Aciers / Steel | F | 1000 N/mm2

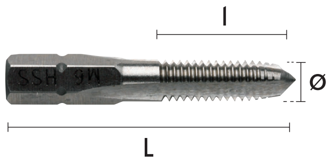
Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	l2 mm	⧄ mm	d mm
M3 x 0,50	*34,17*	56	16	11	2,40	3,0
M4 x 0,70	*34,17*	63	18	14	3,00	4,0
M5 x 0,80	*34,17*	71	20	18	3,80	5,0
M6 x 1,00	*37,76*	80	22	22	4,90	6,0
M8 x 1,25	*42,66*	95	26	25	6,20	8,0
M10 x 1,50	*46,94*	106	30	31	8,00	10,0
M12 x 1,75	*55,40*	115	32	35	9,00	12,0

1504 HSS Hex.

M DIN 13 | Tol. 6H | 1/4"



Ø mm	L mm	l mm	€	⧄ mm
M3,00 x 0,50	33	11	*6,98*	1/4"
M4,00 x 0,70	35	12	*6,98*	1/4"
M5,00 x 0,80	36	15	*6,98*	1/4"
M6,00 x 1,00	39	18	*6,98*	1/4"
M8,00 x 1,25	40	19	*9,67*	1/4"
M10,00 x 1,50	41	21	*11,07*	1/4"

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2248 HSS ISO 529

M DIN 13 | Form. B "Gun" | Tol. 6H

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications

Ø x P mm	€	L mm	l mm	□ mm	d mm
M3,00x0,50	*5,67*	48	11	2,50	3,15
M4,00x0,70	*5,75*	53	13	3,15	4,00
M5,00x0,80	*7,29*	58	16	4,00	5,00
M6,00x1,00	*7,63*	66	19	5,00	6,30
M8,00x1,25	*7,88*	72	22	6,30	8,00
M10,00x1,50	*9,63*	80	24	8,00	10,00
M12,00x1,75	*17,88*	89	29	7,10	10,20
M14,00x2,00	*15,29*	95	30	9,00	11,20

Ø x P mm	€	L mm	l mm	□ mm	d mm
M16,00x2,00	*17,88*	102	32	10,00	12,50
M18,00x2,50	*22,33*	112	37	11,20	14,00
M20,00x2,50	*24,96*	112	37	11,20	14,00
M22,00x2,50	*28,29*	118	38	12,50	16,00
M24,00x3,00	*35,75*	130	45	14,00	18,00
M27,00x3,00	*48,00*	135	45	16,00	20,00
M30,00x3,50	*89,08*	138	48	16,00	20,00

2249 HSS ISO 529

M DIN 13 | Form. C | 35° | Tol. 6H

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications

Ø x P mm	€	L mm	l mm	□ mm	d mm
M3,00x0,50	*7,08*	48	11	2,50	3,15
M4,00x0,70	*7,33*	53	13	3,15	4,00
M5,00x0,80	*9,08*	58	16	4,00	5,00
M6,00x1,00	*9,42*	66	19	5,00	6,30
M8,00x1,25	*10,04*	72	22	6,30	8,00
M10,00x1,50	*12,04*	80	24	8,00	10,00
M12,00x1,75	*18,21*	89	29	7,10	10,20
M14,00x2,00	*20,54*	95	30	9,00	11,20

Ø x P mm	€	L mm	l mm	□ mm	d mm
M16,00x2,00	*22,33*	102	32	10,00	12,50
M18,00x2,50	*28,04*	112	37	11,20	14,00
M20,00x2,50	*31,42*	112	37	11,20	14,00
M22,00x2,50	*35,29*	118	38	12,50	16,00
M24,00x3,00	*44,58*	130	45	14,00	18,00
M27,00x3,00	*59,92*	135	45	16,00	20,00
M30,00x3,50	*100,67*	138	48	16,00	20,00

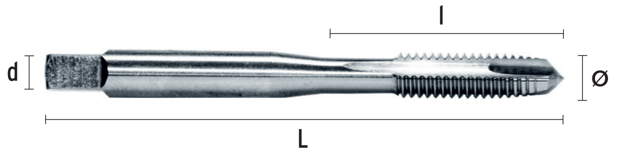
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2266 HSSE JIS

M DIN 13 | MF DIN 13 | Form. B "Gun" | Tol. 6H | D

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	▢ mm	d mm
M3x0.50	*11,58*	46	11	3.2	4,0
M4x0.70	*11,84*	52	13	4,0	5,0
M5x0.80	*11,86*	60	16	4.5	5.5
M6x1,00	*13,01*	62	19	4.5	6,0
M8x1,25	*14,35*	70	22	5,0	6.2
M10x1,50	*17,61*	75	24	5.5	7,0

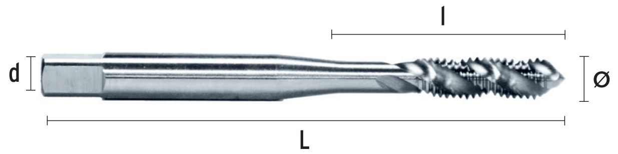
Ø x P mm	€	L mm	l mm	▢ mm	d mm
M12x1,75	*22,48*	82	29	6.5	8.5
M14x2,00	*29,60*	88	30	8,0	10.5
M16x2,00	*36,36*	95	32	10,0	12.5
M18x2,50	*49,41*	100	37	11,0	14,0
M20x2,50	*53,30*	105	37	12,0	15,0

2267 HSSE JIS

M DIN 13 | MF DIN 13 | Form. C | Tol. 6H | 35° | D

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	▢ mm	d mm
M3x0.50	*14,28*	46	11	3.2	4,0
M4x0.70	*14,28*	52	13	4,0	5,0
M5x0.80	*13,80*	60	16	4.5	5.5
M6x1,00	*15,13*	62	19	4.5	6,0
M8x1,25	*18,04*	70	22	5,0	6.2
M10x1,50	*20,98*	75	24	5.5	7,0

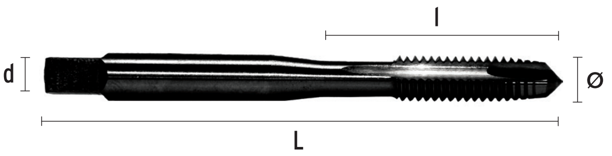
Ø x P mm	€	L mm	l mm	▢ mm	d mm
M12x1,75	*28,02*	82	29	6.5	8.5
M14x2,00	*35,97*	88	30	8,0	10.5
M16x2,00	*43,44*	95	32	10,0	12.5
M18x2,50	*58,41*	100	37	11,0	14,0
M20x2,50	*62,23*	105	37	12,0	15,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2268 **HSSE JIS** | M DIN 13 | MF DIN 13 | Form. B "Gun" | Tol. 6H | D | VAP

Aceros 400 - 800 N/mm² — **Aciers / Steel** F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M3x0.50	*12,96*	46	11	3.2	4,0
M4x0.70	*13,27*	52	13	4,0	5,0
M5x0.80	*13,28*	60	16	4.5	5.5
M6x1,00	*14,57*	62	19	4.5	6,0
M8x1,25	*16,07*	70	22	5,0	6.2
M10x1,50	*19,73*	75	24	5.5	7,0

Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M12x1,75	*25,18*	82	29	6.5	8.5
M14x2,00	*33,15*	88	30	8,0	10.5
M16x2,00	*40,72*	95	32	10,0	12.5
M18x2,50	*55,34*	100	37	11,0	14,0
M20x2,50	*59,70*	105	37	12,0	15,0

2269 **HSSE JIS** | M DIN 13 | MF DIN 13 | Form. C | Tol. 6H | 35° | D | VAP

Aceros 400 - 800 N/mm² — **Aciers / Steel** F 1000 N/mm2

Aplicaciones / Applications

Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M3x0.50	*16,01*	46	11	3.2	4,0
M4x0.70	*16,01*	52	13	4,0	5,0
M5x0.80	*15,46*	60	16	4.5	5.5
M6x1,00	*16,94*	62	19	4.5	6,0
M8x1,25	*20,21*	70	22	5,0	6.2
M10x1,50	*23,51*	75	24	5.5	7,0

Ø x P mm	€	L mm	l mm	⊠ mm	d mm
M12x1,75	*31,38*	82	29	6.5	8.5
M14x2,00	*40,29*	88	30	8,0	10.5
M16x2,00	*48,65*	95	32	10,0	12.5
M18x2,50	*65,42*	100	37	11,0	14,0
M20x2,50	*69,70*	105	37	12,0	15,0

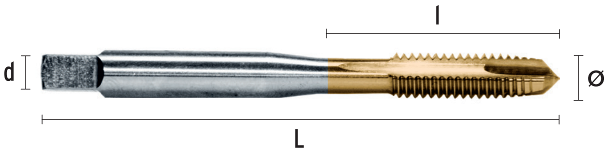
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2270 HSSE JIS | M DIN 13 | MF DIN 13 | Form. B "Gun" | Tol. 6H | D | TIN

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



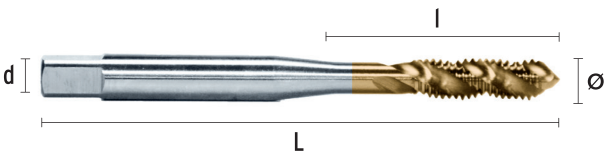
Ø x P mm	€	L mm	l mm	⌀ mm	d mm
M3x0.50	*16,21*	46	11	3.2	4,0
M4x0.70	*17,32*	52	13	4,0	5,0
M5x0.80	*17,33*	60	16	4.5	5.5
M6x1,00	*18,49*	62	19	4.5	6,0
M8x1,25	*21,40*	70	22	5,0	6.2
M10x1,50	*28,07*	75	24	5.5	7,0
M12x1,75	*33,99*	82	29	6.5	8.5
M14x2,00	*42,66*	88	30	8,0	10.5
M16x2,00	*50,72*	95	32	10,0	12.5
M18x2,50	*63,77*	100	37	11,0	14,0
M20x2,50	*67,66*	105	37	12,0	15,0

2271 HSSE JIS | M DIN 13 | MF DIN 13 | Form. C | Tol. 6H | 35° | D | TIN

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	⌀ mm	d mm
M3x0.50	*19,15*	46	11	3.2	4,0
M4x0.70	*20,03*	52	13	4,0	5,0
M5x0.80	*19,55*	60	16	4.5	5.5
M6x1,00	*20,87*	62	19	4.5	6,0
M8x1,25	*25,43*	70	22	5,0	6.2
M10x1,50	*31,93*	75	24	5.5	7,0
M12x1,75	*40,09*	82	29	6.5	8.5
M14x2,00	*49,66*	88	30	8,0	10.5
M16x2,00	*58,49*	95	32	10,0	12.5
M18x2,50	*73,46*	100	37	11,0	14,0
M20x2,50	*77,28*	105	37	12,0	15,0

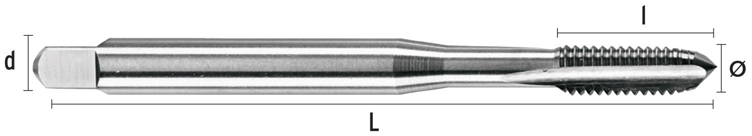
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2148 HSSE DIN 371

UNC ANSI/ASME B1.1 | Form. C | Tol. 2B | R

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
Nº4 - 40h	*22,82*	56	11	2,70	3,5
Nº5 - 40h	*22,82*	56	11	2,70	3,5
Nº6 - 32h	*21,72*	56	11	3,00	4,0
Nº8 - 32h	*21,72*	63	13	3,40	4,5

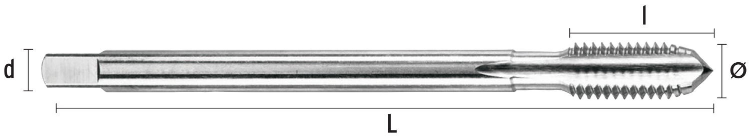
Ø x P mm	€	L mm	l mm	□ mm	d mm
Nº10 - 24h	*22,82*	70	16	4,90	6,0
Nº12 - 24h	*23,94*	80	19	4,90	6,0
1/4 - 20h	*20,26*	80	19	5,50	7,0
5/16 - 18h	*21,54*	90	22	6,20	8,0

2147 HSSE DIN 376

UNC ANSI/ASME B1.1 | Form. C | Tol. 2B | D

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
1/4 - 20h	*20,26*	80	19	3,40	4,5
5/16 - 18h	*22,92*	90	22	4,90	6,0
3/8 - 16h	*26,15*	100	24	5,50	7,0
7/16 - 14h	*35,95*	100	24	6,20	8,0
1/2 - 13h	*39,45*	110	29	7,00	9,0
9/16 - 12h	*53,72*	110	30	9,00	11,0
5/8 - 11h	*52,18*	110	30	9,00	12,0

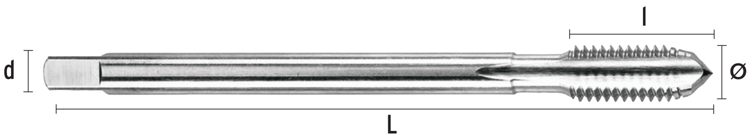
Ø x P mm	€	L mm	l mm	□ mm	d mm
3/4 - 10h	*68,96*	125	35	11,00	14,0
7/8 - 9h	*90,85*	140	36	14,50	18,0
1" - 8h	*119,31*	160	38	14,50	18,0
1"1/8 - 7h	*150,65*	180	45	18,00	22,0
1"1/4 - 7h	*184,71*	180	45	18,00	22,0
1"1/2 - 6h	*311,46*	200	55	24,00	32,0

2147/5 HSSE DIN 376

UNC ANSI/ASME B1.1 | Form. C | LH | Tol. 2B | D

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
1/4 - 20h	*40,50*	80	19	3,40	4,5
5/16 - 18h	*45,84*	90	22	4,90	6,0
3/8 - 16h	*52,32*	100	24	5,50	7,0
7/16 - 14h	*71,91*	100	24	6,20	8,0
1/2 - 13h	*78,89*	110	29	7,00	9,0

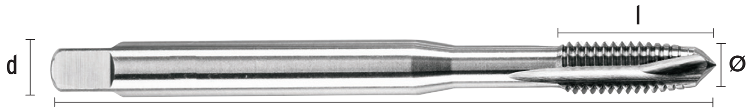
Ø x P mm	€	L mm	l mm	mm	d mm
9/16 - 12h	*107,45*	110	30	9,00	11,0
5/8 - 11h	*104,36*	110	30	9,00	12,0
3/4 - 10h	*137,92*	125	35	11,00	14,0
7/8 - 9h	*181,72*	140	36	14,50	18,0
1" - 8h	*238,60*	160	38	14,50	18,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2150 HSSE DIN 371 — UNC ANSI/ASME B1.1 — Form. B "Gun" — Tol. 2B — R

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications

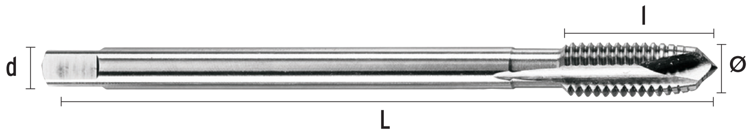


Ø x P mm	€	L mm	l mm	▢ mm	d mm
Nº4 - 40h	27,38	56	11	2,70	3,5
Nº5 - 40h	27,38	56	11	2,70	3,5
Nº6 - 32h	26,09	56	11	3,00	4,0
Nº8 - 32h	26,09	63	13	3,40	4,5
Nº10 - 24h	27,38	70	16	4,90	6,0
Nº12 - 24h	28,71	80	19	4,90	6,0
1/4 - 20h	22,11	80	19	5,50	7,0
5/16 - 18h	25,23	90	22	6,20	8,0

2149 HSSE DIN 376 — UNC ANSI/ASME B1.1 — Form. B "Gun" — Tol. 2B — D

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	▢ mm	d mm
1/4 - 20h	22,11	80	19	3,40	4,5
5/16 - 18h	25,26	90	22	4,90	6,0
3/8 - 16h	39,46	100	24	5,50	7,0
7/16 - 14h	39,46	100	24	6,20	8,0
1/2 - 13h	43,26	110	29	7,00	9,0
9/16 - 12h	57,42	110	30	9,00	11,0
5/8 - 11h	57,42	110	30	9,00	12,0
3/4 - 10h	75,94	125	35	11,00	14,0
7/8 - 9h	99,83	140	36	14,50	18,0
1" - 8h	131,03	160	38	14,50	18,0
1"1/8 - 7h	166,52	180	45	18,00	22,0
1"1/4 - 7h	204,19	180	45	18,00	22,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2262 HSSE DIN 371

UNC ANSI/ASME B1.1 | Form. B "Gun" | Tol. 2B | R | VAP

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
N°5-40h	*32,04*	56	11	2,70	3,5
N°8-32h	*30,52*	63	13	3,40	4,5
N°10-24h	*32,04*	70	14	4,90	6,0
1/4-20h	*25,86*	80	18	5,50	7,0
5/16-18h	*29,52*	90	20	6,20	8,0
3/8-16h	*46,17*	100	21	8,00	10,0

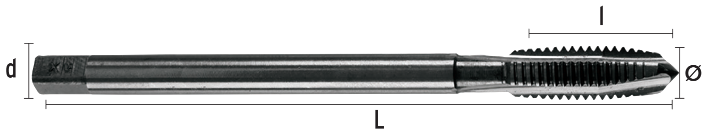
2263 HSSE DIN 376

UNC ANSI/ASME B1.1 | Form. B "Gun" | Tol. 2B | D | VAP

Aceros 800 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	⧄ mm	d mm
1/2-13h	*50,61*	110	27	7,00	9,0
9/16-12h	*67,18*	110	30	9,00	11,0
5/8-11h	*67,18*	110	30	9,00	12,0
3/4-10h	*88,85*	125	35	11,00	14,0

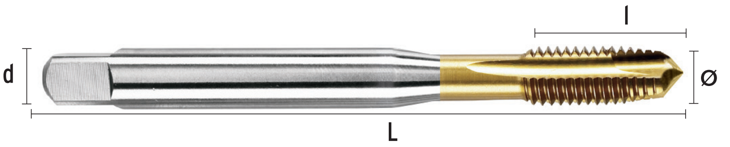
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2234 HSSE DIN 371

UNC ANSI/ASME B1.1 | Form. B "Gun" | Tol. 2B | R | TIN

Aceros 400 - 800 N/mm^2 — Aciers / Steel — F 1100 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	▢ mm	d mm
Nº 5-40 h	*32,03*	56	11	2,70	3,5
Nº 8-32 h	*31,58*	63	13	3,40	4,5
Nº 10-24 h	*32,86*	70	16	4,90	6,0

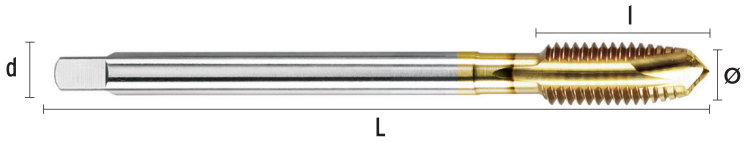
Ø x P mm	€	L mm	l mm	▢ mm	d mm
1/4-20h	27,60	80	18	5,50	7,0
5/16-18h	32,29	90	20	6,20	8,0
3/8-16h	49,90	100	21	8,00	10,0

2235 HSSE DIN 376

UNC ANSI/ASME B1.1 | Form. B "Gun" | Tol. 2B | D | TIN

Aceros 400 - 800 N/mm^2 — Aciers / Steel — F 1100 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	▢ mm	d mm
1/2-13h	56,32	110	29	7,00	9,0
9/16-12h	70,48	110	30	9,00	11,0

Ø x P mm	€	L mm	l mm	▢ mm	d mm
5/8-11h	71,76	110	30	9,00	12,0
3/4-10h	98,41	125	35	11,00	14,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2238 HSSE DIN 371

UNC ANSI/ASME B1.1 | Form. B "Gun" | Tol. 2B | R | VAP

Aceros inoxidables — **Aciers inox / Stainless Steel** — F 1100 N/mm2

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
N° 5-40 h	*34,22*	56	11	2,70	3,5
N° 8-32 h	*32,61*	63	13	3,40	4,5
N° 10-24 h	*34,22*	70	14	4,90	6,0

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
1/4-20h	*27,64*	80	18	5,50	7,0
5/16-18h	*31,54*	90	20	6,20	8,0
3/8-16h	*49,33*	100	21	8,00	10,0

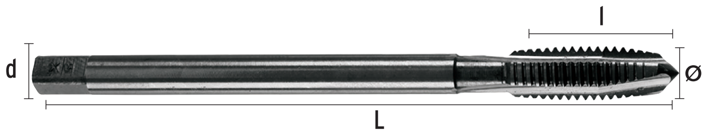
2239 HSSE DIN 376

UNC ANSI/ASME B1.1 | Form. B "Gun" | Tol. 2B | D | VAP

Aceros inoxidables — **Aciers inox / Stainless Steel** — F 1100 N/mm2

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	⧄ mm	d mm
1/2-13h	54,08	110	29	7,00	9,0
9/16-12h	71,76	110	30	9,00	11,0

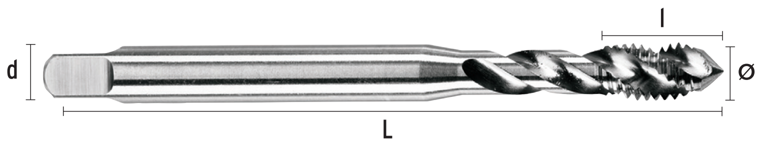
Ø x P mm	€	L mm	l mm	⧄ mm	d mm
5/8-11h	71,76	110	30	9,00	12,0
3/4-10h	94,92	125	35	11,00	14,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2152 HSSE DIN 371 | UNC ANSI/ASME B1.1 | Form. C | Tol. 2B | 35° | R

Aceros 400 - 800 N/mm^2 — Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications



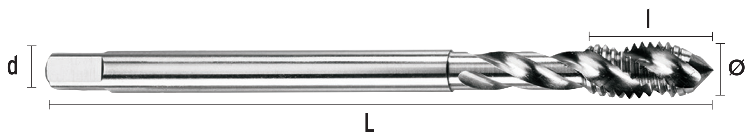
Ø x P mm	€	L mm	l mm	□ mm	d mm
Nº4 - 40h	*31,20*	56	6	2,70	3,5
Nº5 - 40h	*31,20*	56	6	2,70	3,5
Nº6 - 32h	*29,75*	56	6	3,00	4,0
Nº8 - 32h	*29,75*	63	7	3,40	4,5

Ø x P mm	€	L mm	l mm	□ mm	d mm
Nº10 - 24h	*31,20*	70	8	4,90	6,0
Nº12 - 24h	*30,02*	80	10	4,90	6,0
1/4 - 20h	*24,02*	80	10	5,50	7,0
5/16 - 18h	*33,93*	90	14	6,20	8,0

2151 HSSE DIN 376 | UNC ANSI/ASME B1.1 | Form. C | Tol. 2B | 35° | D

Aceros 400 - 800 N/mm^2 — Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
1/4 - 20h	*30,02*	80	10	3,40	4,5
5/16 - 18h	*33,95*	90	14	4,90	6,0
3/8 - 16h	*37,97*	100	16	5,50	7,0
7/16 - 14h	*46,30*	100	16	6,20	8,0
1/2 - 13h	*50,65*	110	18	7,00	9,0
9/16 - 12h	*68,75*	110	20	9,00	11,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
5/8 - 11h	*66,88*	110	20	9,00	12,0
3/4 - 10h	*88,55*	125	25	11,00	14,0
7/8 - 9h	*138,58*	140	28	14,50	18,0
1" - 8h	*173,86*	160	32	14,50	18,0
1"1/8 - 7h	*190,34*	180	35	18,00	22,0
1"1/4 - 7h	*241,19*	180	35	18,00	22,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2264 HSSE DIN 371

UNC ANSI/ASME B1.1 | Form. C | Tol. 2B | 35° | R | VAP

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	▢ mm	d mm
N° 5-40 h	*36,51*	56	6	2,70	3,5
N° 8-32 h	*34,80*	63	7	3,40	4,5
N° 10-24 h	*36,51*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	▢ mm	d mm
1/4-20h	*28,11*	80	10	5,50	7,0
5/16-18h	*39,70*	90	14	6,20	8,0
3/8-16h	*44,43*	100	15	8,00	10,0

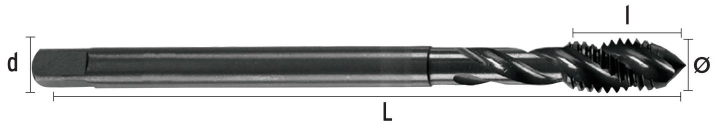
2265 HSSE DIN 376

UNC ANSI/ASME | Form. C | Tol. 2B | 35° | D | VAP

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	▢ mm	d mm
1/2-13h	*59,26*	110	18	7,00	9,0
9/16-12h	*80,43*	110	20	9,00	11,0

Ø x P mm	€	L mm	l mm	▢ mm	d mm
5/8-11h	*78,24*	110	20	9,00	12,0
3/4-10h	*103,61*	125	25	11,00	14,0

MACHOS DE MÁQUINA

TARAUDS MACHINE / MACHINE TAPS

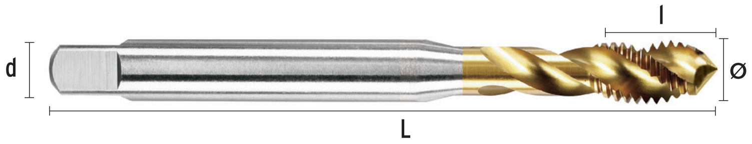
2236 HSSE DIN 371

UNC ANSI/ASME B1.1 | Form. C | Tol. 2B | 35° | R | TIN

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1100 N/mm2

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	◪ mm	d mm
N° 5-40 h	*35,85*	56	6	2,70	3,5
N° 8-32 h	*35,24*	63	7	3,00	4,5
N° 10-24 h	*36,68*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	◪ mm	d mm
1/4-20h	29,50	80	10	5,50	7,0
5/16-18h	40,98	90	14	6,20	8,0
3/8-16h	48,43	100	15	8,00	10,0

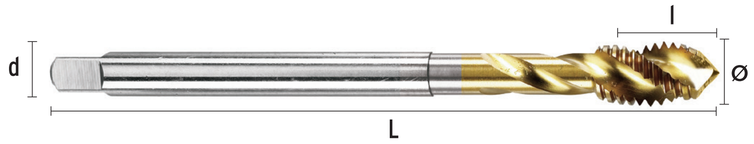
2237 HSSE DIN 376

UNC ANSI/ASME B1.1 | Form. C | Tol. 2B | 35° | D | TIN

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1100 N/mm2

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	◪ mm	d mm
1/2-13 h	63,73	110	18	7,00	9,0
9/16-12 h	81,81	110	20	9,00	11,0

Ø x P mm	€	L mm	l mm	◪ mm	d mm
5/8-11 h	81,23	110	20	9,00	12,0
3/4-10 h	111,02	125	25	11,00	14,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2240 HSSE DIN 371

UNC ANSI/ASME B1.1 | Form. C | Tol. 2B | 35° | R | VAP

Aceros inoxidables — Aciers inox / Stainless Steel — F 1100 N/mm2

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY

Ø x P mm	€	L mm	l mm	mm	d mm
Nº 5-40 h	*39,00*	56	6	2,70	3,5
Nº 8-32 h	*37,19*	63	7	3,00	4,5
Nº 10-24 h	*39,00*	70	8	4,90	6,0

Ø x P mm	€	L mm	l mm	mm	d mm
1/4-20h	*30,03*	80	10	5,50	7,0
5/16-18h	*42,41*	90	14	6,20	8,0
3/8-16h	*47,47*	100	15	8,00	10,0

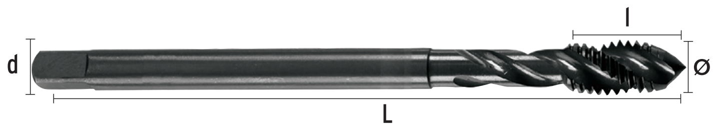
2241 HSSE DIN 376

UNC ANSI/ASME B1.1 | Form. C | Tol. 2B | 35° | D | VAP

Aceros inoxidables — Aciers inox / Stainless Steel — F 1100 N/mm2

Aplicaciones / Applications

MICRO FINISH THREADING TECHNOLOGY



Ø x P mm	€	L mm	l mm	mm	d mm
1/2-13 h	63,32	110	18	7,00	9,0
9/16-12 h	85,93	110	20	9,00	11,0

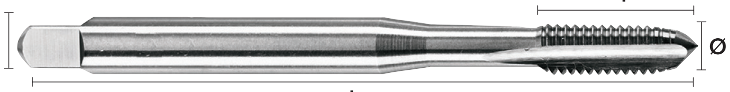
Ø x P mm	€	L mm	l mm	mm	d mm
5/8-11 h	83,59	110	20	9,00	12,0
3/4-10 h	110,70	125	25	11,00	14,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2154 HSSE DIN 371 — UNF ANSI/ASME B1.1 — Form. C — Tol. 2B — R

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
Nº4 - 48h	25,00	56	11	2,70	3,5
Nº5 - 44h	25,00	56	11	2,70	3,5
Nº6 - 40h	23,96	56	11	3,00	4,0
Nº8 - 36h	23,96	63	13	3,40	4,5

Ø x P mm	€	L mm	l mm	□ mm	d mm
Nº10 - 32h	23,96	70	16	4,90	6,0
Nº12 - 28h	25,00	80	19	4,90	6,0
1/4 - 28h	19,24	80	19	5,50	7,0
5/16 - 24h	22,11	90	22	6,20	8,0

2153 HSSE DIN 374 — UNF ANSI/ASME B1.1 — Form. C — Tol. 2B — D

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications

Ø x P mm	€	L mm	l mm	□ mm	d mm
1/4 - 28h	19,24	80	19	3,40	4,5
5/16 - 24h	22,11	90	22	4,90	6,0
3/8 - 24h	25,52	90	20	5,50	7,0
7/16 - 20h	32,70	90	22	6,20	8,0
1/2 - 20h	34,81	100	22	7,00	9,0
9/16 - 18h	42,74	100	22	9,00	11,0
5/8 - 18h	48,13	100	22	9,00	12,0

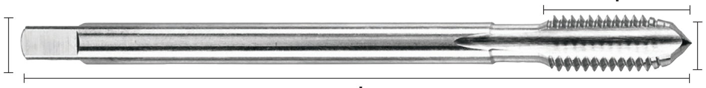
Ø x P mm	€	L mm	l mm	□ mm	d mm
3/4 - 16h	61,58	110	25	11,00	14,0
7/8 - 14h	77,47	125	25	14,50	18,0
1" - 12h	101,54	140	28	14,50	18,0
1"1/8 - 12h	152,50	150	28	18,00	22,0
1"1/4 - 12h	192,74	150	28	18,00	22,0
1"1/2 - 12h	323,44	170	30	24,00	32,0

2153/5 HSSE DIN 374

UNF ANSI/ASME B1.1 | Form. C | LH | Tol. 2B | D

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	☐ mm	d mm
1/4 - 28h	*38,45*	80	19	3,40	4,5
5/16 - 24h	*44,21*	90	22	4,90	6,0
3/8 - 24h	*51,04*	90	20	5,50	7,0
7/16 - 20h	*65,38*	90	22	6,20	8,0
1/2 - 20h	*69,60*	100	22	7,00	9,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
9/16 - 18h	*85,47*	100	22	9,00	11,0
5/8 - 18h	*96,26*	100	22	9,00	12,0
3/4 - 16h	*123,16*	110	25	11,00	14,0
7/8 - 14h	*154,94*	125	25	14,50	18,0
1" - 12h	*203,10*	140	28	14,50	18,0

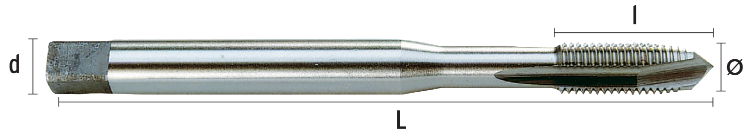
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2156 HSSE DIN 371

UNF ANSI/ASME B1.1 | Form. B "Gun" | Tol. 2B | R

Aceros 400 - 800 N/mm^2 — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	☐ mm	d mm
Nº4 - 48h	*24,54*	56	11	2,70	3,5
Nº5 - 44h	*24,54*	56	11	2,70	3,5
Nº6 - 40h	*28,68*	56	12	3,00	4,0
Nº8 - 36h	*28,68*	63	13	3,40	4,5

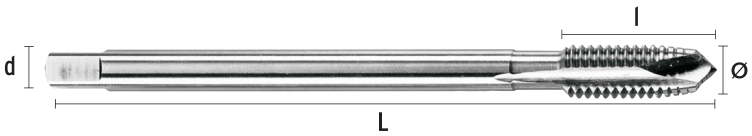
Ø x P mm	€	L mm	l mm	☐ mm	d mm
Nº10 - 32h	*28,68*	70	16	4,90	6,0
Nº12 - 28h	*30,02*	80	19	4,90	6,0
1/4 - 28h	*21,16*	80	19	5,50	7,0
5/16 - 24h	*24,31*	90	22	6,20	8,0

2155 HSSE DIN 376

UNF ANSI/ASME B1.1 | Form. B "Gun" | Tol. 2B | D

Aceros 400 - 800 N/mm^2 — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	☐ mm	d mm
1/4 - 28h	*21,15*	80	19	3,40	4,5
5/16 - 24h	*24,34*	90	22	4,90	6,0
3/8 - 24h	*28,03*	90	20	5,50	7,0
7/16 - 20h	*35,95*	90	22	6,20	8,0
1/2 - 20h	*38,30*	100	22	7,00	9,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
9/16- 18h	*46,99*	100	22	9,00	11,0
5/8 - 18h	*52,89*	100	22	9,00	12,0
3/4 - 16h	*67,77*	110	25	11,00	14,0
7/8 - 14h	*85,19*	125	25	14,50	18,0
1" - 12h	*111,67*	140	28	14,50	18,0

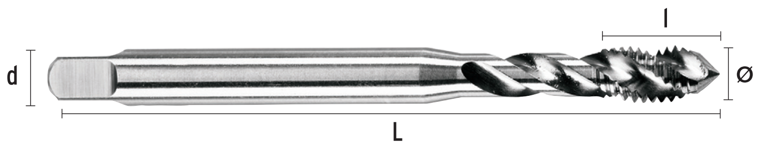
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2158 HSSE DIN 371

UNF ANSI/ASME B1.1 | Form. C | Tol. 2B | 35° | R

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	mm	d mm
Nº4 - 48h	*34,19*	56	6	2,70	3,5
Nº5 - 44h	*34,19*	56	6	2,70	3,5
Nº6 - 40h	*23,89*	56	6	3,00	4,0
Nº8 - 36h	*23,89*	63	7	3,40	4,5

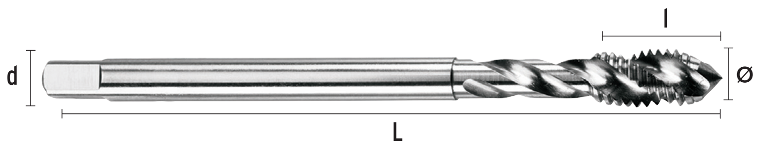
Ø x P mm	€	L mm	l mm	mm	d mm
Nº10 - 32h	*23,89*	70	8	4,90	6,0
Nº12 - 28h	*34,19*	80	10	4,90	6,0
1/4 - 28h	*24,02*	80	10	5,50	7,0
5/16 - 24h	*27,69*	90	14	6,20	8,0

2157 HSSE DIN 374

UNF ANSI/ASME B1.1 | Form. C | Tol. 2B | 35° | D

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	mm	d mm
1/4 - 28h	*24,00*	80	12	3,40	4,5
5/16 - 24h	*27,69*	90	15	4,90	6,0
3/8 - 24h	*31,88*	90	18	5,50	7,0
7/16 - 20h	*41,89*	90	15	6,20	8,0
1/2 - 20h	*44,58*	100	18	7,00	9,0

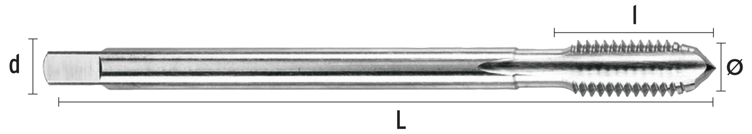
Ø x P mm	€	L mm	l mm	mm	d mm
9/16 - 18h	*55,21*	100	15	9,00	11,0
5/8 - 18h	*61,69*	100	15	9,00	12,0
3/4 - 16h	*76,98*	110	17	11,00	14,0
7/8 - 14h	*120,70*	125	17	14,50	18,0
1" - 12h	*148,57*	140	20	14,50	18,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2189 HSSE DIN 374 | UN ANSI/ASME B1.1 | Form. C | Tol. 2B | D

Aceros 400 - 800 N/mm² | Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications



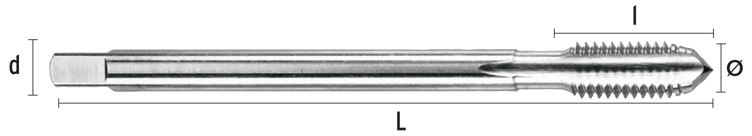
Ø x P mm	€	L mm	l mm	☐ mm	d mm
UN1"1/8 - 8h	*398,59*	180	45	18,00	22,0
UN1"1/4 - 8h	*514,25*	180	45	18,00	22,0
UN1"3/8 - 8h	*428,37*	200	56	22,00	28,0
UN1"1/2 - 8h	*490,46*	200	60	24,00	32,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
UN1"5/8 - 8h	*499,29*	200	60	24,00	32,0
UN1"3/4 - 8h	*625,92*	200	50	29,00	36,0
UN2" - 8h	*1.017,42*	225	50	32,00	40,0

2160 HSSE DIN 374 | UNEF ANSI/ASME B1.1 | Form. C | Tol. 2B | D

Aceros 400 - 800 N/mm² | Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	☐ mm	d mm
1/4 - 32h	*82,02*	80	19	3,40	4,5
5/16 - 32h	*95,53*	90	22	4,90	6,0
3/8 - 32h	*109,50*	90	20	5,50	7,0
7/16 - 28h	*139,38*	90	22	6,20	8,0
1/2 - 28h	*149,14*	100	22	7,00	9,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
9/16 - 24h	*179,14*	100	22	9,00	11,0
5/8 - 24h	*208,32*	100	22	9,00	12,0
3/4 - 20h	*276,07*	110	25	11,00	14,0
1" - 20h	*452,35*	140	28	14,50	18,0

MACHOS DE MÁQUINA

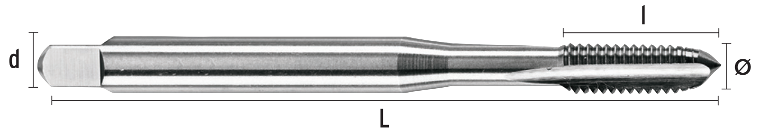
TARAUDS MACHINE / MACHINE TAPS

2136 HSSE DIN 371

BSW BS 84 | Form. C | R

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



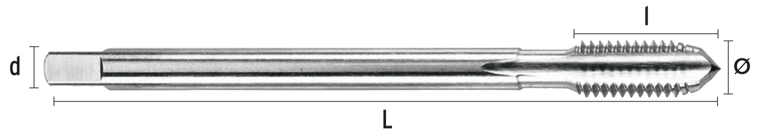
Ø x P mm	€	L mm	l mm	⊠ mm	d mm
W3/32 - 48h	*19,28*	50	9	2,10	2,8
W1/8 - 40h	*16,10*	56	11	2,70	3,5
W5/32 - 32h	*16,10*	63	13	3,40	4,5
W3/16 - 24h	*16,10*	70	16	4,90	6,0
W7/32 - 24h	*24,48*	80	19	4,90	6,0
W1/4 - 20h	*17,55*	80	19	5,50	7,0
W5/16 - 18h	*21,54*	90	22	6,20	8,0
W3/8 - 16h	*23,80*	100	24	8,00	10,0

2135 HSSE DIN 376

BSW BS 84 | Form. C | D

Aceros 400 - 800 N/mm² — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



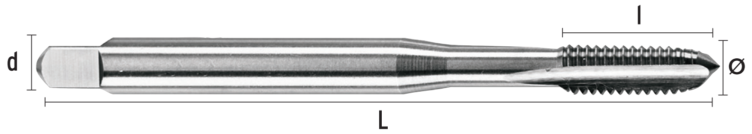
Ø x P mm	€	L mm	l mm	⊠ mm	d mm
W1/8 - 40h	*16,10*	56	11	2,00	2,2
W5/32 - 32h	*16,10*	63	13	2,10	2,8
W3/16 - 24h	*16,10*	70	16	2,70	3,5
W7/32 - 24h	*24,48*	80	19	3,40	4,5
W1/4 - 20h	*17,55*	80	19	3,40	4,5
W5/16 - 18h	*21,54*	90	22	4,90	6,0
W3/8 - 16h	*23,80*	100	24	5,50	7,0
W7/16 - 14h	*31,40*	100	24	6,20	8,0
W1/2 - 12h	*30,11*	110	29	7,00	9,0
W9/16 - 12h	*43,19*	110	30	9,00	11,0
W5/8 - 11h	*40,85*	110	30	9,00	12,0
W3/4 - 10h	*54,67*	125	35	11,00	14,0
W7/8 - 9h	*74,04*	140	36	14,50	18,0
W1" - 8h	*93,11*	160	38	14,50	18,0
W1"1/8 - 7h	*123,52*	180	45	18,00	22,0
W1"1/4 - 7h	*179,28*	180	45	18,00	22,0
W1"3/8 - 6h	*294,74*	200	55	22,00	28,0
W1"1/2 - 6h	*319,95*	200	55	24,00	32,0
W1"5/8 - 5h	*466,85*	220	60	24,00	32,0
W1"3/4 - 5h	*503,65*	220	62	29,00	36,0
W1"7/8 - 4,5h	*558,36*	250	70	29,00	36,0
W2" - 4,5h	*720,81*	250	70	32,00	40,0
W2"1/4 - 4h	*785,58*	280	78	35,00	45,0
W2"1/2 - 4h	*907,46*	315	90	39,00	50,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2136/5 **HSSE DIN 371** BSW BS 84 | Form. C | LH | R

Aceros 400 - 800 N/mm² — Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications

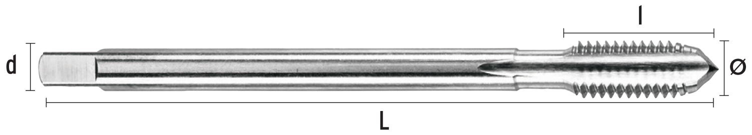


Ø x P mm	€	L mm	l mm	▭ mm	d mm
W 1/8 - 40h	*32,22*	56	11	2,70	3,5
W 5/32 - 32h	*32,22*	63	13	3,40	4,5
W 3/16 - 24h	*32,22*	70	16	4,90	6,0

2135/5 **HSSE DIN 376** BSW BS 84 | Form. C | LH | D

Aceros 400 - 800 N/mm² — Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	▭ mm	d mm
W1/4 - 20h	*35,10*	80	19	3,40	4,5
W5/16 - 18h	*43,09*	90	22	4,90	6,0
W3/8 - 16h	*47,60*	100	24	5,50	7,0
W7/16 - 14h	*62,79*	100	24	6,20	8,0
W1/2 - 12h	*60,21*	110	29	7,00	9,0

Ø x P mm	€	L mm	l mm	▭ mm	d mm
W9/16 - 12h	*86,37*	110	30	9,00	11,0
W5/8 - 11h	*81,72*	110	30	9,00	12,0
W3/4 - 10h	*109,32*	125	35	11,00	14,0
W7/8 - 9h	*148,08*	140	36	14,50	18,0
W1" - 8h	*186,22*	160	38	14,50	18,0

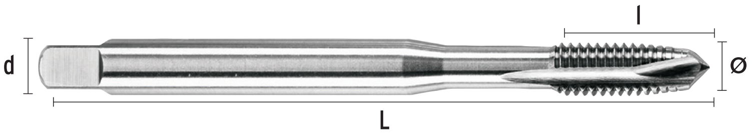
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2138 HSSE DIN 371

BSW BS 84 | Form. B "Gun" | R

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	◻ mm	d mm
W1/8 - 40h	*17,79*	56	11	2,70	3,5
W5/32 - 32h	*17,79*	63	13	3,40	4,5
W3/16 - 24h	*17,79*	70	16	4,90	6,0

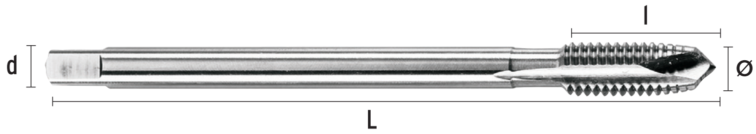
Ø x P mm	€	L mm	l mm	◻ mm	d mm
W1/4 - 20h	*20,21*	80	16	5,50	7,0
W5/16 - 18h	*27,31*	90	18	6,20	8,0

2137 HSSE DIN 376

BSW BS 84 | Form. B "Gun" | D

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	◻ mm	d mm
W 1/4 - 20h	*20,21*	80	19	3,40	4,5
W 5/16 - 18h	*23,66*	90	22	4,90	6,0
W 3/8 - 16h	*26,15*	100	24	5,50	7,0
W 7/16 - 14h	*33,02*	100	24	6,20	8,0
W 1/2 - 12h	*34,57*	110	29	7,00	9,0

Ø x P mm	€	L mm	l mm	◻ mm	d mm
W 9/16 - 12h	*47,49*	110	30	9,00	11,0
W 5/8 - 11h	*44,88*	110	30	9,00	12,0
W 3/4 - 10h	*60,19*	125	35	11,00	14,0
W 7/8 - 9h	*81,41*	140	36	14,50	18,0
W 1" - 8h	*102,36*	160	38	14,50	18,0

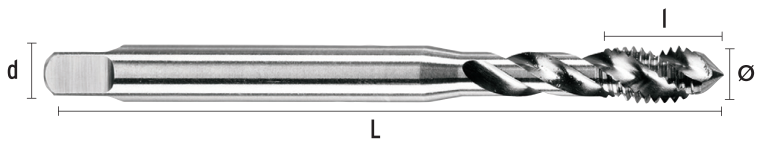
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2140 HSSE DIN 371

BSW BS 84 | Form. C | 35° | R

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	⊘ mm	d mm
W1/8 - 40h	*20,21*	56	6	2,70	3,5
W5/32 - 32h	*20,21*	63	7	3,40	4,5
W3/16 - 24h	*20,21*	70	8	4,90	6,0

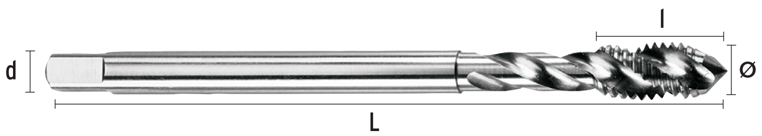
Ø x P mm	€	L mm	l mm	⊘ mm	d mm
W1/4 - 20h	*27,38*	80	10	5,50	7,0
W5/16 - 18h	*33,58*	90	14	6,20	8,0

2139 HSSE DIN 376

BSW BS 84 | Form. C | 35° | D

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	⊘ mm	d mm
W 3/16 - 24h	*20,21*	70	8	2,70	3,5
W 1/4 - 20h	*27,38*	80	10	3,40	4,5
W 5/16 - 18h	*32,10*	90	14	4,90	6,0
W 3/8 - 16h	*35,45*	100	16	5,50	7,0
W 7/16 - 14h	*40,26*	100	16	6,20	8,0
W 1/2 - 12h	*38,59*	110	18	7,00	9,0

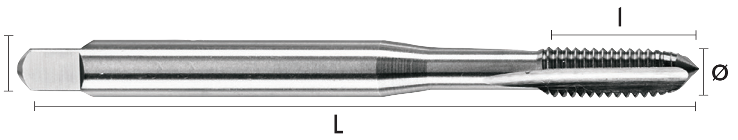
Ø x P mm	€	L mm	l mm	⊘ mm	d mm
W 9/16 - 12h	*55,31*	110	20	9,00	11,0
W 5/8 - 11h	*52,33*	110	20	9,00	12,0
W 3/4 - 10h	*70,07*	125	25	11,00	14,0
W 7/8 - 9h	*94,84*	140	28	14,50	18,0
W 1" - 8h	*119,06*	160	32	14,50	18,0

2141 HSSE DIN 371

BSF BS 84 | Form. C | R

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



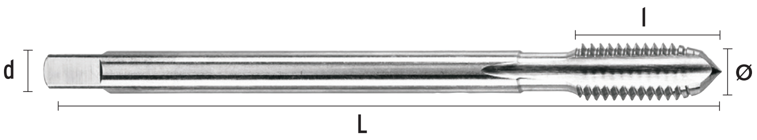
Ø x P mm	€	L mm	l mm	mm	d mm
BSF 3/16 - 32h	69,12	70	14	4,90	6,0
BSF 1/4 - 26h	29,43	80	19	5,50	7,0
BSF 5/16 - 22h	34,96	90	22	6,20	8,0
BSF 3/8 - 20h	36,72	100	24	8,00	10,0

2142 HSSE DIN 374

BSF BS 84 | Form. C | D

Aceros 400 - 800 N/mm² — Aciers / Steel — F — 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	mm	d mm
BSF 7/16 - 18h	49,56	90	22	6,20	8,0
BSF 1/2 - 16h	56,07	100	22	7,00	9,0
BSF 9/16 - 16h	59,34	100	22	9,00	11,0
BSF 5/8 - 14h	79,09	100	22	9,00	12,0
BSF 3/4 - 12h	93,61	110	25	11,00	14,0
BSF 7/8 - 11h	130,15	125	25	14,50	18,0
BSF 1" - 10h	155,41	140	28	14,50	18,0

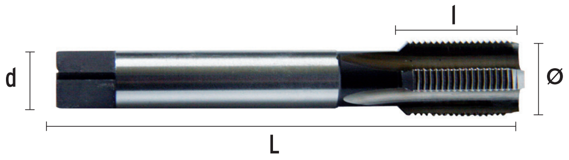
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2144 HSSE DIN 5156

G ISO 228 | Form. C | D

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	☐ mm	d mm
G 1/8 - 28h	*27,21*	90	20	5,50	7,0
G 1/4 - 19h	*38,79*	100	22	9,00	11,0
G 3/8 - 19h	*46,42*	100	22	9,00	12,0
G 1/2 - 14h	*58,66*	125	25	12,00	16,0
G 5/8 - 14h	*73,11*	125	25	14,50	18,0
G 3/4 - 14h	*91,84*	140	28	16,00	20,0
G 7/8 - 14h	*123,46*	150	28	18,00	22,0

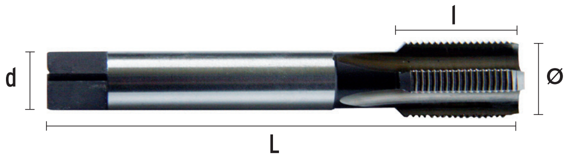
Ø x P mm	€	L mm	l mm	☐ mm	d mm
G 1" - 11h	*142,50*	160	30	20,00	25,0
G 1"1/8 - 11h	*216,58*	170	30	22,00	28,0
G 1"1/4 - 11h	*254,10*	170	30	24,00	32,0
G 1"3/8 - 11h	*317,82*	180	32	29,00	36,0
G 1"1/2 - 11h	*403,32*	190	32	29,00	36,0
G 1"3/4 - 11h	*479,36*	190	32	32,00	40,0
G 2" - 11h	*610,85*	220	40	35,00	45,0

2144/5 HSSE DIN 5156

G ISO 228 | Form. C | LH | D

Aceros 400 - 800 N/mm² — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	☐ mm	d mm
G1/8 - 28h	*54,43*	90	20	5,50	7,0
G1/4 - 19h	*77,59*	100	22	9,00	11,0
G3/8 - 19h	*92,81*	100	22	9,00	12,0
G1/2 - 14h	*117,30*	125	25	12,00	16,0

Ø x P mm	€	L mm	l mm	☐ mm	d mm
G5/8 - 14h	*146,24*	125	25	14,50	18,0
G3/4 - 14h	*183,68*	140	28	16,00	20,0
G1" - 11h	*285,01*	160	30	20,00	25,0

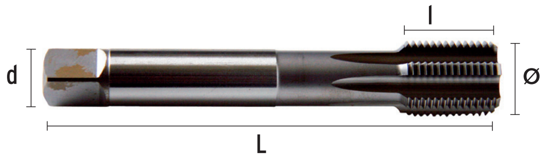
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2192 HSSE DIN 5156

G ISO 228 | Form. E | D

Latón y bronce — Laiton et Bronze / Brass and bronze

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
G1/8 - 28h	*33,00*	90	20	5,50	7,0
G1/4 - 19h	*50,68*	100	22	9,00	11,0
G3/8 - 19h	*69,98*	100	22	9,00	12,0
G1/2 - 14h	*94,43*	125	25	12,00	16,0

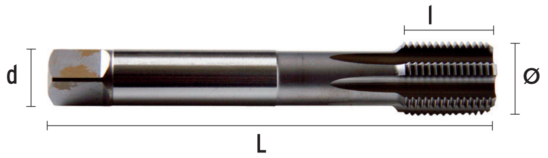
Ø x P mm	€	L mm	l mm	□ mm	d mm
G5/8 - 14h	*98,66*	125	25	14,50	18,0
G3/4 - 14h	*138,58*	140	28	16,00	20,0
G7/8 - 14h	*169,38*	150	28	18,00	22,0
G1" - 11h	*211,39*	160	30	20,00	25,0

2206 HSSE DIN 5156

+0,1 | G ISO 228 | Form. E | D

Latón y bronce — Laiton et Bronze / Brass and bronze

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
G 1/8 - 28h	*40,23*	90	20	5,50	7,0
G 1/4 - 19h	*59,94*	100	22	9,00	11,0
G 3/8 - 19h	*83,98*	100	22	9,00	12,0
G 1/2 - 14h	*114,65*	125	25	12,00	16,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
G 5/8 - 14h	*119,90*	125	25	14,50	18,0
G 3/4 - 14h	*166,30*	140	28	16,00	20,0
G 7/8 - 14h	*196,48*	150	28	18,00	22,0
G 1" - 11h	*245,20*	160	30	20,00	25,0

MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2145 HSSE DIN 5156

G ISO 228 | Form. B "Gun" | D

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications

Ø x P mm	€	L mm	l mm	□ mm	d mm
G 1/8 - 28h	*31,94*	90	20	5,50	7,0
G 1/4 - 19h	*42,69*	100	22	9,00	11,0
G 3/8 - 19h	*51,06*	100	22	9,00	12,0
G 1/2 - 14h	*64,54*	125	25	12,00	16,0
G 5/8 - 14h	*80,45*	125	25	14,50	18,0
G 3/4 - 14h	*101,05*	140	28	16,00	20,0

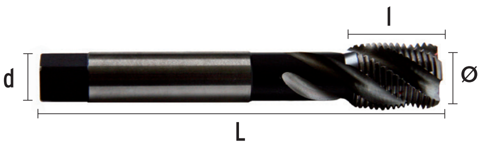
Ø x P mm	€	L mm	l mm	□ mm	d mm
G 7/8 - 14h	*135,82*	150	28	18,00	22,0
G 1" - 11h	*153,96*	160	30	20,00	25,0
G 1"1/8 - 11h	*253,94*	170	30	22,00	28,0
G 1"1/4 - 11h	*287,47*	170	30	24,00	32,0
G 1"1/2 - 11h	*577,91*	190	32	29,00	36,0
G 1"3/8 - 11h	*361,15*	180	32	29,00	36,0

2146 HSSE DIN 5156

G ISO 228 | Form. C | 35° | D

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
G 1/8 - 28h	*34,76*	90	10	5,50	7,0
G 1/4 - 19h	*49,95*	100	14	9,00	11,0
G 3/8 - 19h	*59,60*	100	15	9,00	12,0
G 1/2 - 14h	*75,18*	125	17	12,00	16,0
G 5/8 - 14h	*93,66*	125	17	14,50	18,0
G 3/4 - 14h	*117,70*	140	20	16,00	20,0

Ø x P mm	€	L mm	l mm	□ mm	d mm
G 7/8 - 14h	*158,25*	150	22	18,00	22,0
G 1" - 11h	*179,33*	160	25	20,00	25,0
G 1"1/8 - 11h	*285,99*	170	25	22,00	28,0
G 1"1/4 - 11h	*335,01*	170	27	24,00	32,0
G 1"3/8 - 11h	*453,18*	180	27	29,00	36,0
G 1"1/2 - 11h	*582,47*	190	27	29,00	36,0

2159 HSSE DIN 5156

Rc DIN 2999 | Form. C | D

Aceros 400 - 800 N/mm^2 | Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
Rc 1/8 - 28h	*45,85*	90	18	5,50	7,0
Rc 1/4 - 19h	*66,38*	100	22	9,00	11,0
Rc 3/8 - 19h	*91,54*	100	22	9,00	12,0
Rc 1/2 - 14h	*127,59*	125	25	12,00	16,0

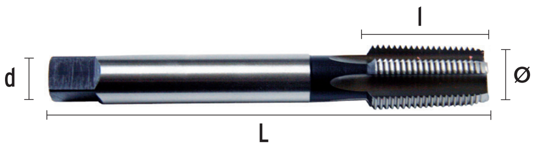
Ø x P mm	€	L mm	l mm	⧄ mm	d mm
Rc 3/4 - 14h	*197,77*	140	28	16,00	20,0
Rc 7/8 - 14h	*341,45*	150	28	18,00	22,0
Rc 1" - 11h	*284,31*	160	30	20,00	25,0

2164 HSSE DIN 374

NPT ANSI/ASME B1.20.1 | Form. C | Tol. 6H | D

Aceros 400 - 800 N/mm^2 | Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	⧄ mm	d mm
1/16 - 27h	*50,29*	90	12	4,90	6,0
1/8 - 27h	*39,77*	90	12	5,50	7,00
1/4 - 18h	*54,39*	100	18	11,00	14,0
3/8 - 18h	*70,53*	110	18	11,00	14,0
1/2 - 14h	*94,03*	140	23	12,00	16,0

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
3/4 - 14h	*146,41*	150	24	16,00	20,0
1" - 11,5h	*312,48*	160	35	20,00	25,0
1"1/ 4 - 11,5h	*367,36*	190	35	25,00	31,5
1"1/ 2 - 11,5h	*620,20*	200	35	29,00	36,0
2" - 11,5h	*853,95*	220	35	35,00	45,0

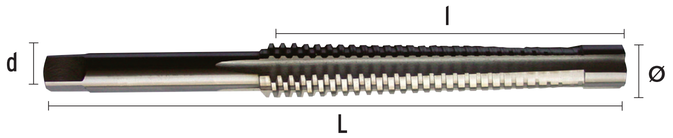
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2212 HSSE

Tr DIN 103 | Tol. 7H

Aceros 400 - 800 N/mm^2 — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	⧄ mm	d mm
Tr 10x2	356,63	110	63	5,50	7,0
Tr 10x3	356,63	125	75	5,50	7,0
Tr 12x3	417,17	165	111	6,20	8,0
Tr 14x3	427,68	140	85	8,00	10,0
Tr 14x4	461,84	170	112	8,00	10,0
Tr 16x4	461,84	180	116	9,00	11,0
Tr 18x4	495,00	190	120	9,00	12,0

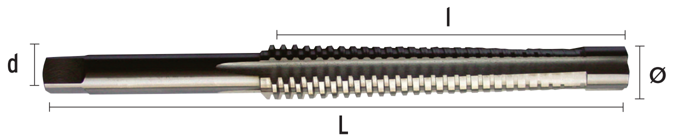
Ø x P mm	€	L mm	l mm	⧄ mm	d mm
Tr 20x4	538,92	200	124	11,00	14,0
Tr 22x5	538,92	235	155	12,00	16,0
Tr 24x5	583,01	245	160	14,50	18,0
Tr 26x5	605,06	255	165	16,00	20,0
Tr 28x5	660,00	265	170	18,00	22,0
Tr 30x6	715,11	290	185	18,00	22,0
Tr 32x6	702,73	300	191	20,00	25,0

2212/5 HSSE

Tr DIN 103 | Tol. 7H | LH

Aceros 400 - 800 N/mm^2 — Aciers / Steel — F 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	⧄ mm	d mm
Tr 10x2	445,74	110	63	5,50	7,0
Tr 10x3	445,74	125	75	5,50	7,0
Tr 12x3	521,45	165	111	6,20	8,0
Tr 14x3	534,59	140	85	8,00	10,0
Tr 14x4	577,33	170	112	8,00	10,0
Tr 16x4	577,33	180	116	9,00	11,0
Tr 18x4	618,70	190	120	9,00	12,0

Ø x P mm	€	L mm	l mm	⧄ mm	d mm
Tr 20x4	673,65	200	124	11,00	14,0
Tr 22x5	673,65	235	155	12,00	16,0
Tr 24x5	728,77	245	160	14,50	18,0
Tr 26x5	756,33	255	165	16,00	20,0
Tr 28x5	824,91	265	170	18,00	22,0
Tr 30x6	893,93	290	185	18,00	22,0
Tr 32x6	878,42	300	191	20,00	25,0

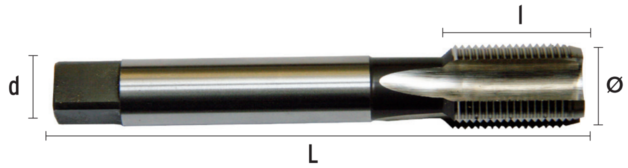
MACHOS DE MÁQUINA
TARAUDS MACHINE / MACHINE TAPS

2163 HSSE DIN 40433

PG DIN 40430 | Form. C | D

Aceros 400 - 800 N/mm² | Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
Pg.7 (12,50 x 20h)	*42,17*	100	22	7,00	9,0
Pg.9 (15,20 x 18h)	*58,35*	100	22	9,00	12,0
Pg.11 (18,60 x 18h)	*75,94*	110	25	11,00	14,0
Pg.13,50 (20,40 x 18h)	*85,23*	125	25	12,00	16,0
Pg.16 (22,50 x 18h)	*100,33*	125	25	14,50	18,0

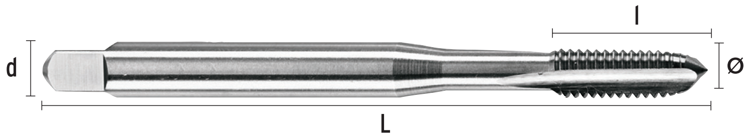
Ø x P mm	€	L mm	l mm	□ mm	d mm
Pg.21 (28,30 x 16h)	*159,29*	150	28	18,00	22,0
Pg.29 (37,00 x 16h)	*269,29*	170	30	22,00	28,0
Pg.36 (47,00 x 16h)	*472,47*	190	32	29,00	36,0
Pg.42 (54,00 x 16h)	*769,24*	190	32	32,00	40,0
Pg.48 (59,30 x 16h)	*937,81*	220	40	35,00	45,0

2242 HSSE DIN 371

Vg DIN 7756 | Form. C | R

Aceros 400 - 800 N/mm² | Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
5,00 x 36h	*88,03*	80	19	4,90	6,00
5,20 x 24h	*88,03*	80	19	4,90	6,00

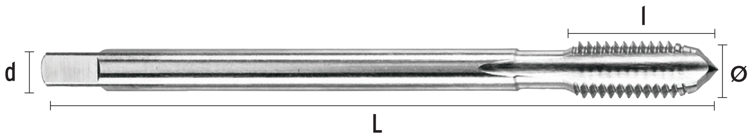
Ø x P mm	€	L mm	l mm	□ mm	d mm
6,00 x 32h	*100,22*	80	19	5,50	7,00
8,00 x 32h	*111,50*	90	22	6,20	8,00

2243 HSSE DIN 374

Vg DIN 7756 | Form. C | D

Aceros 400 - 800 N/mm² | Aciers / Steel | F | 1000 N/mm2

Aplicaciones / Applications



Ø x P mm	€	L mm	l mm	□ mm	d mm
9,60 x 1	*161,90*	90	20	5,50	7,00
10,00 x 28h	*140,49*	90	22	6,20	8,00

Ø x P mm	€	L mm	l mm	□ mm	d mm
12,00 x 26h	*152,85*	100	22	7,00	9,00

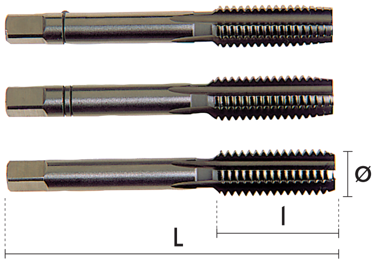
MACHOS DE MANO
TARAUDS À MAIN / HANDS TAPS

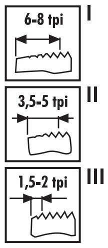
2301 **HSS DIN 352/2181** | M DIN 13 | MF DIN 13 | Tol. 6H

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3º / Taraud 3º / Tap 3º } **PVP = €/3** < M (€/3) / MF (€/2)





Ø x P mm		Nº	€	L mm	l mm	◻ mm
* M1,00	x 0,25	3	72,79	32	5,50	2,10
* M1,10	x 0,25	3	72,79	32	5,50	2,10
* M1,20	x 0,25	3	72,79	32	5,50	2,10
* M1,40	x 0,30	3	72,79	32	7	2,10
M1,60	x 0,35	3	66,42	32	8	2,10
M1,70	x 0,35	3	41,94	32	8	2,10
M1,80	x 0,35	3	62,35	32	8	2,10
M2,00	x 0,40	3	33,08	36	8	2,10
M2,20	x 0,45	3	35,63	36	9	2,10
M2,30	x 0,40	3	35,67	36	9	2,10
M2,50	x 0,45	3	34,21	40	9	2,10
M2,60	x 0,45	3	31,48	40	9	2,10
M3,00	x 0,50	3	18,11	40	1	2,70
MF3,00	x 0,60	3	34,73	40	12	2,70
M3,50	x 0,60	3	25,07	45	13	3,00
MF3,50	x 0,75	3	41,95	45	14	3,40
MF4,00	x 0,50	2	35,32	45	10	3,40
M4,00	x 0,70	3	16,68	45	13	3,40
M4,50	x 0,75	3	32,32	50	16	4,90
MF5,00	x 0,50	2	37,56	50	12	4,90
MF5,00	x 0,75	2	35,00	50	12	4,90
M5,00	x 0,80	3	18,12	50	16	4,90
MF5,00	x 1,00	2	20,12	50	14	4,90
MF5,50	x 0,90	3	122,46	51	18	4,90
MF6,00	x 0,50	2	37,52	50	14	4,90
MF6,00	x 0,75	2	21,13	50	14	4,90
MF6,00	x 0,90	2	122,35	50	19	4,90
M6,00	x 1,00	3	18,12	50	19	4,90
MF7,00	x 0,75	2	26,68	50	14	4,90
M7,00	x 1,00	3	25,01	50	19	4,90
MF8,00	x 0,50	2	40,06	50	19	4,90
MF8,00	x 0,75	2	31,21	50	19	4,90
MF8,00	x 1,00	2	20,75	56	22	4,90
M8,00	x 1,25	3	21,82	56	22	4,90
MF9,00	x 1,00	2	26,82	63	20	5,50
M9,00	x 1,25	3	38,71	63	22	5,50
MF10,00	x 0,50	2	101,77	63	18	5,50
MF10,00	x 0,75	2	44,73	63	20	5,50
MF10,00	x 1,00	2	22,50	63	20	5,50
MF10,00	x 1,25	2	22,91	70	24	5,50
M10,00	x 1,50	3	27,55	70	24	5,50
MF11,00	x 0,75	2	111,41	63	20	6,20

***Tol. 4H**

Ø x P mm		Nº	€	L mm	l mm	◻ mm
MF11,00	x 1,00	2	39,77	63	20	6,20
MF11,00	x 1,25	2	39,77	63	22	6,20
M11,00	x 1,50	3	53,39	70	24	6,20
MF12,00	x 0,75	2	63,66	70	22	7,00
MF12,00	x 1,00	2	39,29	70	22	7,00
MF12,00	x 1,25	2	39,45	70	22	7,00
MF12,00	x 1,50	2	33,56	70	22	7,00
M12,00	x 1,75	3	35,82	76	29	7,00
MF13,00	x 0,75	2	111,41	70	20	9,00
MF13,00	x 1,00	2	64,41	70	22	9,00
MF13,00	x 1,25	2	64,41	70	22	9,00
MF13,00	x 1,50	2	64,41	70	22	9,00
M13,00	x 1,75	3	81,13	80	30	9,00
MF14,00	x 0,75	2	111,51	70	22	9,00
MF14,00	x 1,00	2	58,78	70	22	9,00
MF14,00	x 1,25	2	48,22	70	22	9,00
MF14,00	x 1,50	2	37,46	70	22	9,00
M14,00	x 2,00	3	47,13	80	30	9,00
MF15,00	x 1,00	2	86,89	70	22	9,00
MF15,00	x 1,25	2	91,44	70	22	9,00
MF15,00	x 1,50	2	88,95	70	22	9,00
M15,00	x 2,00	3	92,95	80	32	9,00
MF16,00	x 1,00	2	82,26	70	22	9,00
MF16,00	x 1,25	2	86,59	70	22	9,00
MF16,00	x 1,50	2	46,70	70	22	9,00
M16,00	x 2,00	3	66,36	80	32	9,00
MF17,00	x 1,00	2	132,55	70	22	9,00
MF17,00	x 1,25	2	132,55	70	22	9,00
MF17,00	x 1,50	2	132,55	70	22	9,00
MF18,00	x 1,00	2	91,43	80	40	11,00
MF18,00	x 1,25	2	130,66	80	22	11,00
MF18,00	x 1,50	2	61,92	80	22	11,00
MF18,00	x 2,00	2	98,52	80	22	11,00
M18,00	x 2,50	3	88,70	95	40	11,00
MF19,00	x 1,00	2	192,40	80	22	11,00
MF19,00	x 1,25	2	192,23	80	22	11,00
MF19,00	x 1,50	2	192,40	80	22	11,00
MF20,00	x 1,00	2	121,76	80	22	12,00
MF20,00	x 1,25	2	192,40	80	22	12,00
MF20,00	x 1,50	2	77,27	80	22	12,00
MF20,00	x 2,00	2	102,11	80	22	12,00
M20,00	x 2,50	3	99,69	95	40	12,00

(**continúa Ref.2301** / suite Réf.2301 / Ref.2301 cont'd)

MACHOS DE MANO
TARAUDS À MAIN / HANDS TAPS

(**continúa Ref.2301** / suite Réf.2301 / Ref.2301 cont'd)

Ø x P mm	Nº	€	L mm	l mm	⧄ mm
MF21,00 x 1,00	2	248,64	80	22	12,00
MF21,00 x 1,25	2	248,64	80	22	12,00
MF21,00 x 1,50	2	196,61	80	22	12,00
MF22,00 x 1,00	2	135,83	80	22	14,50
MF22,00 x 1,25	2	192,40	80	22	14,50
MF22,00 x 1,50	2	84,48	80	22	14,50
MF22,00 x 2,00	2	135,84	80	22	14,50
M22,00 x 2,50	**3**	122,21	**100**	**40**	**14,50**
MF23,00 x 1,00	2	248,40	80	22	14,50
MF23,00 x 1,50	2	248,40	80	22	14,50
MF24,00 x 1,00	2	151,87	90	22	14,50
MF24,00 x 1,25	2	248,64	90	22	14,50
MF24,00 x 1,50	2	107,84	90	22	14,50
MF24,00 x 2,00	2	151,87	90	22	14,50
M24,00 x 3,00	**3**	153,94	**110**	**50**	**14,50**
MF25,00 x 1,00	2	217,55	90	22	14,50
MF25,00 x 1,25	2	354,21	90	22	14,50
MF25,00 x 1,50	2	188,10	90	22	14,50
MF25,00 x 2,00	2	364,34	90	22	14,50
MF26,00 x 1,00	2	354,56	90	22	14,50
MF26,00 x 1,50	2	171,81	90	22	14,50
MF26,00 x 2,00	2	354,56	90	22	14,50
MF27,00 x 1,00	2	213,50	90	22	16,00
MF27,00 x 1,50	2	190,37	90	22	16,00
MF27,00 x 2,00	2	210,51	90	22	16,00
M27,00 x 3,00	**3**	198,26	**110**	**50**	**16,00**
MF28,00 x 1,00	2	354,54	90	22	16,00
MF28,00 x 1,50	2	190,88	90	22	16,00
MF28,00 x 2,00	2	354,54	90	22	16,00
MF30,00 x 1,00	2	219,99	90	22	18,00
MF30,00 x 1,50	2	198,00	90	22	18,00
MF30,00 x 2,00	2	228,27	90	22	18,00
M30,00 x 3,50	**3**	251,71	**125**	**56**	**18,00**
MF32,00 x 1,00	2	460,66	90	22	18,00
MF32,00 x 1,50	2	243,79	90	22	18,00
MF32,00 x 2,00	2	461,07	90	22	18,00
MF33,00 x 1,00	2	461,07	100	25	20,00
MF33,00 x 1,50	2	268,60	100	25	20,00

Ø x P mm	Nº	€	L mm	l mm	⧄ mm
MF33,00 x 2,00	2	319,35	100	25	20,00
M33,00 x 3,50	**3**	319,35	**125**	**56**	**20,00**
MF34,00 x 1,50	2	290,65	100	25	22,00
MF35,00 x 1,50	2	373,26	100	25	22,00
MF3600 x 1,50	2	311,35	100	25	22,00
MF36,00 x 2,00	2	398,43	125	40	22,00
MF36,00 x 3,00	2	543,53	125	40	22,00
M36,00 x 4,00	**3**	411,27	**150**	**63**	**22,00**
MF38,00 x 1,50	2	350,23	100	25	22,00
MF38,00 x 2,00	2	628,88	125	40	22,00
MF39,00 x 1,50	2	469,72	110	25	24,00
MF39,00 x 2,00	2	469,72	125	40	24,00
MF39,00 x 3,00	2	457,08	125	40	24,00
M39,00 x 4,00	**3**	456,99	**150**	**63**	**24,00**
MF40,00 x 1,50	2	411,33	110	25	24,00
MF40,00 x 2,00	2	477,78	125	40	24,00
MF40,00 x 3,00	2	473,34	125	40	24,00
MF42,00 x 1,50	2	454,98	110	25	24,00
MF42,00 x 2,00	2	546,62	125	40	24,00
MF42,00 x 3,00	2	546,62	125	40	24,00
M42,00 x 4,50	**3**	572,59	**150**	**63**	**24,00**
MF45,00 x 1,50	2	512,21	110	25	29,00
MF45,00 x 2,00	2	650,77	125	40	29,00
MF45,00 x 3,00	2	650,77	125	40	29,00
M45,00 x 4,50	**3**	664,16	**160**	**70**	**29,00**
MF48,00 x 1,50	2	577,20	140	40	29,00
MF48,00 x 2,00	2	856,21	140	40	29,00
MF48,00 x 3,00	2	787,86	140	40	29,00
M48,00 x 5,00	**3**	797,66	**180**	**75**	**29,00**
MF50,00 x 1,50	2	631,22	140	40	29,00
MF52,00 x 1,50	2	669,62	140	40	32,00
MF52,00 x 2,00	2	963,35	140	40	32,00
MF52,00 x 3,00	2	894,41	140	40	32,00
M52,00 x 5,00	**3**	1.040,90	**180**	**75**	**32,00**
M56,00 x 5,50	**3**	1.503,45	**200**	**85**	**35,00**
M60,00 x 5,50	**3**	1.884,09	**200**	**85**	**35,00**
MF63,00 x 1,50	2	1.497,53	160	32	39,00
M64,00 x 6,00	**3**	2.352,83	**220**	**90**	**39,00**

MACHOS DE MANO
TARAUDS À MAIN / HANDS TAPS

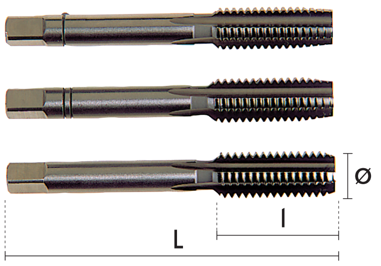
2301/5 HSS DIN 352 Izquierda / A gauche / Left hand

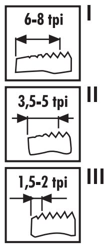
M DIN 13 | MF DIN 13 | Tol. 6H | LH

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3°
Taraud 3°
Tap 3°
PVP = €/3





Ø x P mm	Nº	€	L mm	l mm	□ mm
M3,00 x 0,50	3	36,21	40	11	2,70
M4,00 x 0,70	3	33,35	45	13	3,40
M5,00 x 0,80	3	36,25	50	16	4,90
M6,00 x 1,00	3	36,25	50	19	4,90
M7,00 x 1,00	3	50,03	50	19	4,90
MF8,00 x 1,00	2	41,50	56	22	4,90
M8,00 x 1,25	3	43,65	56	22	4,90
M9,00 x 1,25	3	77,43	63	22	5,50
MF10,00 x 1,00	2	44,99	63	20	5,50
MF10,00 x 1,25	2	45,83	70	24	5,50
M10,00 x 1,50	3	55,11	70	24	5,50
MF12,00 x 1,25	2	78,92	70	22	7,00
MF12,00 x 1,50	2	67,12	70	22	7,00
M12,00 x 1,75	3	71,64	75	29	7,00

Ø x P mm	Nº	€	L mm	l mm	□ mm
MF14,00 x 1,25	2	96,44	70	22	9,00
MF14,00 x 1,50	2	74,93	70	22	9,00
M14,00 x 2,00	3	94,25	80	30	9,00
MF16,00 x 1,50	2	93,40	70	22	9,00
M16,00 x 2,00	3	132,71	80	32	9,00
M18,00 x 2,50	3	177,42	95	40	11,00
MF20,00 x 1,50	2	154,55	80	22	12,00
M20,00 x 2,50	3	199,36	95	40	12,00
MF22,00 x 1,50	2	168,96	80	22	14,50
M22,00 x 2,50	3	244,43	100	40	14,50
MF24,00 x 1,50	2	215,65	90	22	14,50
M24,00 x 3,00	3	307,89	110	50	14,50
M27,00 x 3,00	3	396,52	110	50	16,00
M30,00 x 3,50	3	503,41	125	56	18,00

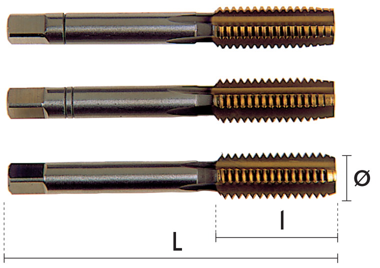
2302 HSS DIN 352

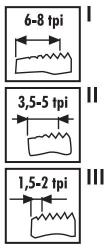
M DIN 13 | Tol. 6H | TIN

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3°
Taraud 3°
Tap 3°
PVP = €/3





Ø x P mm	Nº	€	L mm	l mm	□ mm
M3,00 x 0,50	3	40,51	40	11	2,70
M4,00 x 0,70	3	41,53	45	13	3,40
M5,00 x 0,80	3	42,46	50	16	4,90
M6,00 x 1,00	3	42,54	50	19	4,90
M8,00 x 1,25	3	51,12	56	22	4,90

Ø x P mm	Nº	€	L mm	l mm	□ mm
M10,00 x 1,50	3	60,70	70	24	5,50
M12,00 x 1,75	3	93,31	75	29	7,00
M14,00 x 2,00	3	111,07	80	30	9,00
M16,00 x 2,00	3	138,68	80	32	9,00
M20,00 x 2,50	3	150,38	95	40	12,00

***(Hasta fin de existencias / Jusqu'à épuisement des stocks / While supplies last)**

MACHOS DE MANO
TARAUDS À MAIN / HANDS TAPS

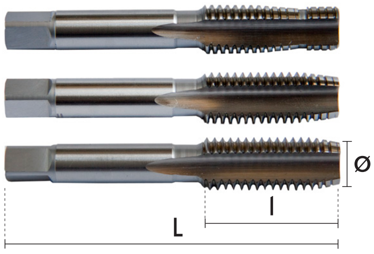
2314 HSSE DIN 352

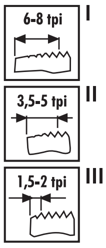
M DIN 13 | Tol. 6HX

Aceros 800 - 1100 N/mm² — **Aciers / Steel** 800 N/mm2

Aplicaciones / Applications

Macho 3° / Taraud 3° / Tap 3°	PVP = €/3





Ø x P mm	Nº	€	L mm	l mm	☐ mm
M3,00 x 0,50	3	*26,54*	40	10	2,70
M4,00 x 0,70	3	*26,49*	45	12	3,40
M5,00 x 0,80	3	*27,74*	50	14	4,90
M6,00 x 1,00	3	*27,84*	56	16	4,90
M8,00 x 1,25	3	*31,97*	63	20	4,90

Ø x P mm	Nº	€	L mm	l mm	☐ mm
M10,00 x 1,50	3	*41,17*	70	22	5,50
M12,00 x 1,75	3	*58,51*	75	24	7,00
M14,00 x 2,00	3	*77,48*	80	26	9,00
M16,00 x 2,00	3	*85,46*	80	27	9,00

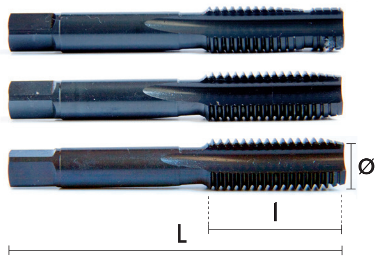
2303 HSSE DIN 352

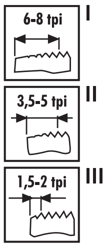
M DIN 13 | Tol. 6HX | VAP

Aceros inox — **Aciers inox / Stainless Steel** F 800 N/mm2 1100 N/mm2

Aplicaciones / Applications

Macho 3° / Taraud 3° / Tap 3°	PVP = €/3





Ø x P mm	Nº	€	L mm	l mm	☐ mm
M3,00 x 0,50	3	*27,07*	40	11	2,70
M4,00 x 0,70	3	*27,07*	45	13	3,40
M5,00 x 0,80	3	*28,16*	50	16	4,90
M6,00 x 1,00	3	*28,16*	56	19	4,90
M8,00 x 1,25	3	*32,69*	63	22	4,90
M10,00 x 1,50	3	*42,07*	70	24	5,50

Ø x P mm	Nº	€	L mm	l mm	☐ mm
M12,00 x 1,75	3	*60,20*	75	29	7,00
M14,00 x 2,00	3	*66,69*	80	30	9,00
M16,00 x 2,00	3	*91,35*	80	32	9,00
M18,00 x 2,50	3	*124,81*	95	40	11,00
M20,00 x 2,50	3	*138,55*	95	40	12,00

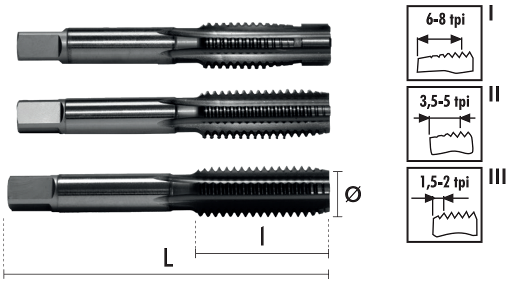
2324 HSSE-PM DIN 352

M DIN 13 | Tol. 6HX | TICN

Aceros 1100 - 1400 N/mm² — Aciers / Steel — 800 N/mm2

Aplicaciones / Applications

Macho 3°
Taraud 3°
Tap 3°
PVP = €/3



Ø x P mm	Nº	€	L mm	l mm	☐ mm
M4x0.70	3	*96,37*	45	12	2,70
M5x0.80	3	*97,57*	50	14	4,90
M6x1,00	3	*97,57*	56	16	4,90
M8x1,25	3	*109,98*	63	20	4,90

Ø x P mm	Nº	€	L mm	l mm	☐ mm
M10x1,50	3	*135,95*	70	22	5,50
M12x1,75	3	*165,26*	75	24	7,00
M14x2,00	3	*242,97*	80	26	9,00
M16x2,00	3	*242,97*	80	27	9,00

MACHOS DE MANO
TARAUDS À MAIN / HANDS TAPS

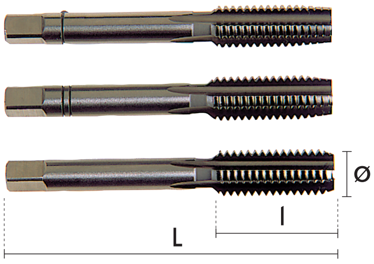
2304 HSS DIN 352

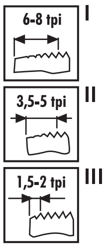
BSW BS 84

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3° / Taraud 3° / Tap 3° } PVP = €/3





Ø x P mm	Nº	€	L mm	l mm	◻ mm
W3/32 - 48h	3	33,65	36	10	2,10
W1/8 - 40h	3	23,21	40	12	2,70
W5/32 - 32h	3	23,44	45	14	3,40
W3/16 - 24h	3	23,21	50	18	4,90
W7/32 - 24h	3	41,29	50	18	4,90
W1/4 - 20h	3	26,15	50	19	4,90
W5/16 - 18h	3	31,91	56	22	4,90
W3/8 - 16h	3	35,08	70	24	5,50
W7/16 - 14h	3	46,64	70	24	6,20
W1/2 - 12h	3	50,52	75	29	7,00
W9/16 - 12h	3	68,72	80	30	9,00
W5/8 - 11h	3	78,99	80	32	9,00
W3/4 - 10h	3	112,47	95	40	11,00
W7/8 - 9h	3	164,54	100	40	14,50

Ø x P mm	Nº	€	L mm	l mm	◻ mm
W1" - 8h	3	200,94	110	50	14,50
W1"1/8 - 7h	3	299,42	132	56	18,00
W1"1/4 - 7h	3	362,20	132	56	18,00
W1"3/8 - 6h	3	450,46	150	63	22,00
W1"1/2 - 6h	3	542,30	150	63	24,00
W1"5/8 - 5h	3	813,54	160	70	24,00
W1"3/4 - 5h	3	1.001,27	160	70	29,00
W1"7/8 - 4,5h	3	1.293,23	190	80	29,00
W2" - 4,5h	3	1.357,64	190	80	32,00
W2"1/4 - 4h	3	1.794,63	220	80	35,00
W2"1/2 - 4h	3	2.183,18	220	80	39,00
W2"3/4 - 3,5h	3	3.117,32	240	80	39,00
W3" - 3,5h	3	3.606,40	240	80	39,00

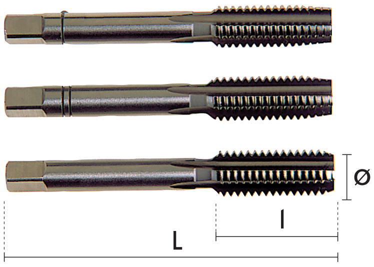
2304/5 HSS DIN 352 Izquierda / A gauche / Left hand

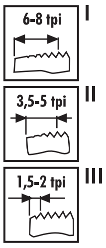
BSW BS 84 LH

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3° / Taraud 3° / Tap 3° } PVP = €/3





Ø x P mm	Nº	€	L mm	l mm	◻ mm
W1/8 - 40h	3	46,43	40	12	2,70
W5/32 - 32h	3	46,89	45	14	3,40
W3/16 - 24h	3	46,43	50	18	4,90
W1/4 - 20h	3	52,28	50	19	4,90
W5/16 - 18h	3	63,82	56	22	4,90
W3/8 - 16h	3	70,14	70	24	4,90
W7/16 - 14h	3	93,28	70	24	6,20

Ø x P mm	Nº	€	L mm	l mm	◻ mm
W1/2 - 12h	3	101,03	75	29	7,00
W9/16 - 12h	3	137,45	80	30	9,00
W5/8 - 11h	3	158,00	80	32	9,00
W3/4 - 10h	3	224,93	95	40	11,00
W7/8 - 9h	3	329,06	100	40	14,50
W1" - 8h	3	401,89	110	50	14,50

MACHOS DE MANO
TARAUDS À MAIN / HANDS TAPS

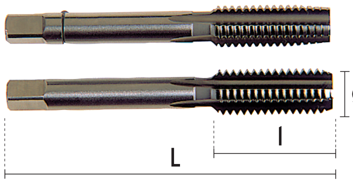
2305 HSS DIN 2181

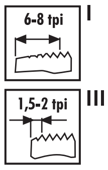
BSF
BS 84

Aceros 400 - 800 N/mm² | **Aciers / Steel** F

Aplicaciones / Applications

Macho 3º
Taraud 3º } **PVP = €/2**
Tap 3º





Ø x P mm	Nº	€	L mm	l mm	□ mm
BSF3/16 - 32h	2	*88,92*	50	14	4,90
BSF1/4 - 26h	2	*36,65*	50	18	4,90
BSF5/16 - 22h	2	*42,76*	56	22	4,90
BSF3/8 - 20h	2	*49,47*	63	22	5,50
BSF7/16 - 18h	2	*59,36*	63	22	6,20
BSF1/2 - 16h	2	*67,11*	75	24	7,00
BSF9/16 - 16h	2	*80,49*	80	28	9,00

Ø x P mm	Nº	€	L mm	l mm	□ mm
BSF5/8 - 14h	2	*105,08*	50	28	9,00
BSF3/4 - 12h	2	*161,01*	95	32	11,00
BSF7/8 - 11h	2	*192,15*	100	36	14,50
BSF1" - 10h	2	*269,72*	110	40	14,50
BSF1"1/8 - 9h	2	*556,56*	125	40	18,00
BSF1"1/4 - 9h	2	*635,46*	125	40	18,00
BSF1"1/2 - 8h	2	*968,43*	125	40	24,00

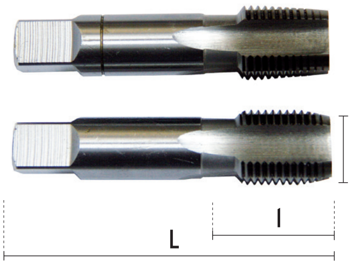
2306 HSS DIN 5157

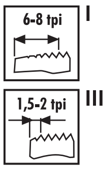
G
ISO 228

Aceros 400 - 800 N/mm² | **Aciers / Steel** F

Aplicaciones / Applications

Macho 3º
Taraud 3º } **PVP = €/2**
Tap 3º





Ø x P mm	Nº	€	L mm	l mm	□ mm
G1/8 - 28h	2	*29,68*	63	20	5,50
G1/4 - 19h	2	*41,80*	70	22	9,00
G3/8 - 19h	2	*52,64*	70	22	9,00
G1/2 - 14h	2	*73,62*	80	22	12,00
G5/8 - 14h	2	*97,24*	80	22	14,50
G3/4 - 14h	2	*114,95*	90	22	16,00
G7/8 - 14h	2	*158,12*	90	22	18,00
G1" - 11h	2	*182,99*	100	25	20,00
G1"1/8 - 11h	2	*271,85*	125	40	22,00

Ø x P mm	Nº	€	L mm	l mm	□ mm
G1"1/4 - 11h	2	*296,19*	125	40	24,00
G1"3/8 - 11h	2	*402,35*	140	40	29,00
G1"1/2 - 11h	2	*447,70*	140	40	29,00
G1"3/4 - 11h	2	*744,30*	140	40	32,00
G2" - 11h	2	*825,10*	160	40	35,00
G2"1/4 - 11h	2	*1.403,80*	160	40	39,00
G2"1/2 - 11h	2	*2.110,09*	160	40	39,00
G2"3/4 - 11h	2	*2.558,49*	160	40	39,00
G3" - 11h	2	*2.662,67*	160	40	39,00

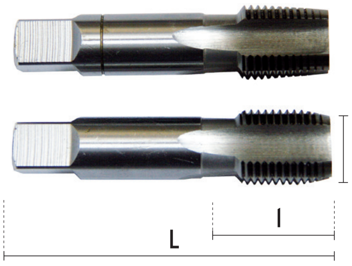
2306/5 HSS DIN 5157 Izquierda / A gauche / Left hand

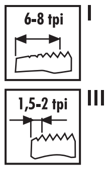
G ISO 228 | LH

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3° / Taraud 3° / Tap 3° — PVP = €/2





Ø x P mm	Nº	€	L mm	l mm	□ mm
G1/8 - 28h	2	*59,37*	63	20	5,50
G1/4 - 19h	2	*83,59*	70	22	9,00
G3/8 - 19h	2	*105,26*	70	22	9,00
G1/2 - 14h	2	*147,23*	80	22	12,00

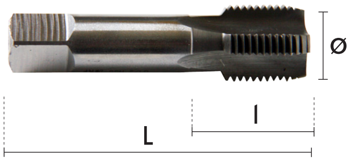
Ø x P mm	Nº	€	L mm	l mm	□ mm
G5/8 - 14h	2	*194,47*	80	22	14,50
G3/4 - 14h	2	*229,90*	90	22	16,00
G1" - 11h	2	*366,01*	100	25	20,00

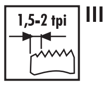
2316 HSSE DIN 5157

G ISO 228

Latón y bronce — **Laiton et Bronze / Brass and bronze**

Aplicaciones / Applications





Ø x P mm	Nº	€	L mm	l mm	□ mm
G1/8 - 28h	1	*17,55*	63	20	5,50
G1/4 - 19h	1	*28,58*	70	22	9,00
G3/8 - 19h	1	*31,26*	70	22	9,00
G1/2 - 14h	1	*50,01*	80	22	12,00

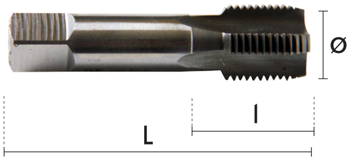
Ø x P mm	Nº	€	L mm	l mm	□ mm
G5/8 - 14h	1	*66,85*	80	22	14,50
G3/4 - 14h	1	*78,19*	90	22	16,00
G7/8 - 14h	1	*113,03*	90	22	18,00
G1" - 11h	1	*129,57*	100	25	20,00

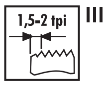
2317 HSSE DIN 5157

G ISO 228 | +0,1

Latón y bronce — **Laiton et Bronze / Brass and bronze**

Aplicaciones / Applications





Ø x P mm	Nº	€	L mm	l mm	□ mm
G1/8 - 28h	1	*19,28*	63	20	5,50
G1/4 - 19h	1	*31,46*	70	22	9,00
G3/8 - 19h	1	*34,51*	70	22	9,00
G1/2 - 14h	1	*57,15*	80	22	12,00

Ø x P mm	Nº	€	L mm	l mm	□ mm
G5/8 - 14h	1	*73,52*	80	22	14,50
G3/4 - 14h	1	*85,98*	90	22	16,00
G7/8 - 14h	1	*124,33*	90	22	18,00
G1" - 11h	1	*142,52*	100	25	20,00

MACHOS DE MANO
TARAUDS À MAIN / HANDS TAPS

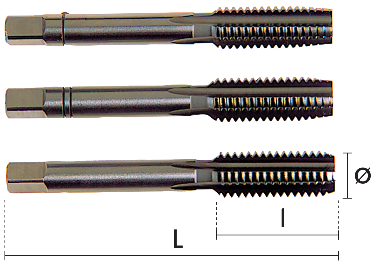
2307 HSS DIN 352

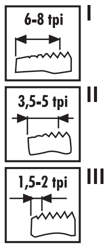
UNC ANSI/ASME B1.1 — Tol. 2B

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3°
Taraud 3° } **PVP = €/3**
Tap 3°





Ø x P mm	Nº	€	L mm	l mm	◻ mm
Nº4 - 40h	3	*45,82*	40	12	2,70
Nº5 - 40h	3	*43,81*	40	12	2,70
Nº6 - 32h	3	*43,81*	45	14	3,00
Nº8 - 32h	3	*43,81*	45	14	3,40
Nº10 - 24h	3	*43,81*	50	16	4,90
Nº12 - 24h	3	*43,81*	50	18	4,90
1/4 - 20h	3	*35,46*	50	19	4,90
5/16 - 18h	3	*40,50*	56	22	4,90
3/8 - 16h	3	*45,79*	70	24	5,50
7/16 - 14h	3	*59,60*	70	24	6,20
1/2 - 13h	3	*68,60*	75	29	7,00

Ø x P mm	Nº	€	L mm	l mm	◻ mm
9/16 - 12h	3	*80,99*	80	30	9,00
5/8 - 11h	3	*111,72*	80	32	9,00
3/4 - 10h	3	*152,10*	95	40	11,00
7/8 - 9h	3	*187,34*	100	40	14,50
1" - 8h	3	*253,01*	110	50	14,50
1"1/8 - 7h	3	*386,23*	132	56	18,00
1"1/4 - 7h	3	*486,16*	132	56	18,00
1"3/8 - 6h	3	*616,73*	150	63	22,00
1"1/2 - 6h	3	*757,24*	150	63	24,00
1"3/4 - 5h	3	*943,36*	160	70	29,00
2" - 4,5h	3	*1.084,49*	190	85	32,00

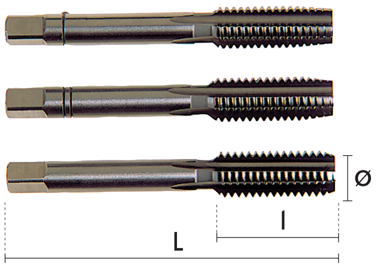
2307/5 HSS DIN 352 Izquierda / A gauche / Left hand

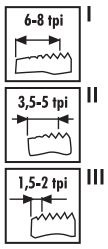
UNC ANSI/ASME B1.1 — Tol. 2B — LH

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3°
Taraud 3° } **PVP = €/3**
Tap 3°





Ø x P mm	Nº	€	L mm	l mm	◻ mm
1/4 - 20h	3	*70,91*	50	19	4,90
5/16 - 18h	3	*80,99*	56	22	4,90
3/8 - 16h	3	*91,58*	70	24	5,50
7/16 - 14h	3	*119,23*	70	24	6,20
1/2 - 13h	3	*137,20*	75	29	7,00

Ø x P mm	Nº	€	L mm	l mm	◻ mm
9/16 - 12h	3	*161,98*	80	30	9,00
5/8 - 11h	3	*223,42*	80	32	9,00
3/4 - 10h	3	*304,21*	95	40	11,00
7/8 - 9h	3	*374,66*	100	40	14,50
1" - 8h	3	*506,02*	110	50	14,50

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MACHOS DE MANO
TARAUDS À MAIN / HANDS TAPS

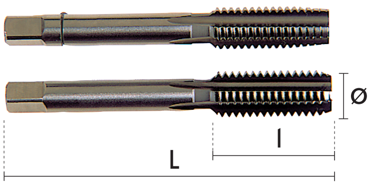
2308 HSS DIN 2181

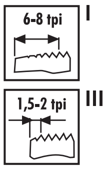
UNF ANSI/ASME B1.1 | Tol. 2B

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3°
Taraud 3° } **PVP = €/2**
Tap 3°





Ø x P mm	Nº	€	L mm	l mm	◻ mm
Nº4 - 48h	2	*34,80*	36	11	2,70
Nº5 - 44h	2	*34,80*	36	11	2,70
Nº6 - 40h	2	*33,25*	40	12	3,00
Nº8 - 36h	2	*33,25*	40	12	3,40
Nº10 - 32h	2	*33,25*	45	14	4,90
Nº12 - 28h	2	*34,80*	50	14	4,90
1/4 - 28h	2	*23,97*	50	18	4,90
5/16 - 24h	2	*25,65*	56	22	4,90
3/8 - 24h	2	*29,66*	63	22	5,50
7/16 - 20h	2	*39,38*	63	22	6,20

Ø x P mm	Nº	€	L mm	l mm	◻ mm
1/2 - 20h	2	*40,27*	75	24	7,00
9/16 - 18h	2	*52,45*	80	28	9,00
5/8 - 18h	2	*67,74*	80	28	9,00
3/4 - 16h	2	*91,01*	95	32	11,00
7/8 - 14h	2	*116,95*	100	36	14,50
1" - 12h	2	*155,06*	110	40	14,50
1"1/8 - 12h	2	*241,46*	110	50	18,00
1"1/4 - 12h	2	*304,57*	132	56	18,00
1"3/8 - 12h	2	*386,80*	132	56	22,00
1"1/2 - 12h	2	*473,61*	150	63	24,00

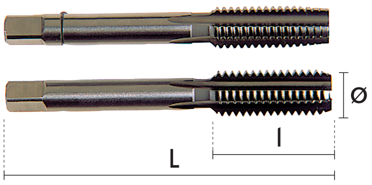
2308/5 HSS DIN 2181 Izquierda / A gauche / Left hand

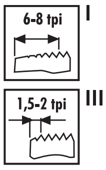
UNF ANSI/ASME B1.1 | Tol. 2B | LH

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3°
Taraud 3° } **PVP = €/2**
Tap 3°





Ø x P mm	Nº	€	L mm	l mm	◻ mm
1/4 - 28h	2	*47,92*	50	18	4,90
5/16 - 24h	2	*51,31*	56	22	4,90
3/8 - 24h	2	*59,31*	63	22	5,50
7/16 - 20h	2	*78,74*	63	22	6,20
1/2 - 20h	2	*80,51*	75	24	7,00

Ø x P mm	Nº	€	L mm	l mm	◻ mm
9/16 - 18h	2	*104,88*	80	28	9,00
5/8 - 18h	2	*135,45*	80	28	9,00
3/4 - 16h	2	*182,03*	95	32	11,00
7/8 - 14h	2	*233,92*	100	36	14,50
1" - 12h	2	*310,11*	110	40	14,50

MACHOS DE MANO
TARAUDS À MAIN / HANDS TAPS

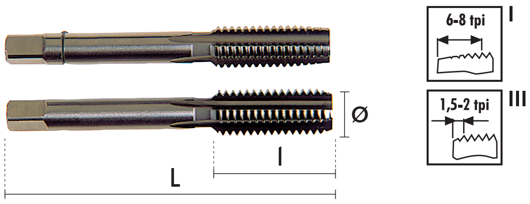
2315 HSS DIN 2184

UN ANSI/ASME B1.1 — Tol. 2B

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3º / Taraud 3º / Tap 3º — PVP = €/2



Ø x P mm	Nº	€	L mm	l mm	☐ mm
UN1"1/8 - 8h	2	*213,86*	125	45	18,00
UN1"1/4 - 8h	2	*275,90*	125	45	18,00
UN1"3/8 - 8h	2	*312,96*	125	40	22,00
UN1"1/2 - 8h	2	*410,92*	125	40	24,00

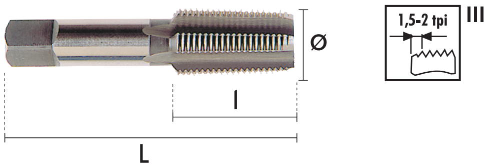
Ø x P mm	Nº	€	L mm	l mm	☐ mm
UN1"5/8 - 8h	2	*480,67*	125	40	24,00
UN1"3/4 - 8h	2	*585,54*	125	40	29,00
UN2" - 8h	2	*627,39*	140	40	32,00

2309 HSS DIN 5157

Rc DIN 2999

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** F

Aplicaciones / Applications



Ø x P mm	Nº	€	L mm	l mm	☐ mm
Rc1/8 - 28h	1	*31,28*	65	19	5,50
Rc1/4 - 19h	1	*44,11*	70	25	9,00
Rc3/8 - 19h	1	*61,26*	75	25	9,00
Rc1/2 - 14h	1	*85,74*	80	21	12,00

Ø x P mm	Nº	€	L mm	l mm	☐ mm
Rc5/8 - 14h	1	*156,91*	80	36	14,00
Rc3/4 - 14h	1	*145,52*	100	33	17,00
Rc7/8 - 14h	1	*261,52*	85	36	17,00
Rc1" - 11h	1	*221,53*	110	38	21,50

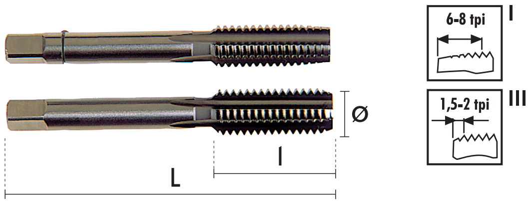
2310 HSS DIN 2181

UNEF ANSI/ASME B1.1 — Tol. 2B

Aceros 400 - 800 N/mm^2 — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3º / Taraud 3º / Tap 3º — PVP = €/2



Ø x P mm	Nº	€	L mm	l mm	☐ mm
1/4 - 32h	2	*98,55*	50	18	4,90
5/16 - 32h	2	*110,11*	56	22	4,90
3/8 - 32h	2	*125,99*	63	22	5,50
7/16 - 28h	2	*160,37*	63	22	6,20
1/2 - 28h	2	*181,21*	75	24	7,00

Ø x P mm	Nº	€	L mm	l mm	☐ mm
9/16 - 24h	2	*211,98*	80	28	9,00
5/8 - 24h	2	*295,05*	80	28	9,00
3/4 - 20h	2	*436,93*	95	32	11,00
1" - 20h	2	*625,17*	110	40	14,50

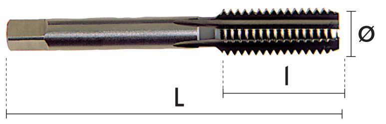
MACHOS DE MANO
TARAUDS À MAIN / HANDS TAPS

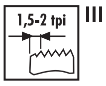
2312 HSS DIN 40432

PG
DIN 40430

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications





Ø x P mm	Nº	€	L mm	l mm	mm
Pg.7 (12,50 x 20h)	1	*32,90*	70	22	7,00
Pg.9 (15,20 x 18h)	1	*41,83*	70	22	9,00
Pg.11 (18,60 x 18h)	1	*58,08*	80	22	11,00
Pg.13,5 (20,40 x 18h)	1	*63,70*	80	22	12,00
Pg.16 (22,50 x 18h)	1	*76,48*	80	22	14,50

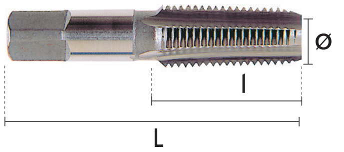
Ø x P mm	Nº	€	L mm	l mm	mm
Pg.21 (28,30 x 16h)	1	*112,49*	90	22	18,00
Pg.29 (37,00 x 16h)	1	*223,32*	100	25	22,00
Pg.36 (47,00 x 16h)	1	*373,05*	140	40	29,00
Pg.42 (54,00 x 16h)	1	*443,03*	140	40	32,00
Pg.48 (59,30 x 16h)	1	*558,71*	160	40	35,00

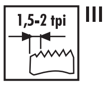
2313 HSS

NPT
ANSI/ASME B1.20.1

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications





Ø x P mm	Nº	€	L mm	l mm	mm
1/16 - 27h	1	*27,14*	65	19	5,50
1/8 - 27h	1	*27,14*	65	19	5,50
1/4 - 18h	1	*38,07*	70	25	9,00
3/8 - 18h	1	*52,52*	75	25	9,00
1/2 - 14h	1	*73,46*	80	31	12,00

Ø x P mm	Nº	€	L mm	l mm	mm
3/4 - 14h	1	*112,31*	100	33	16,00
1" - 11,5h	1	*125,06*	110	38	20,00
1"1/4 - 11,5h	1	*205,05*	125	41	24,00
1"1/2 - 11,5h	1	*311,58*	140	42	29,00
2" - 11,5h	1	*486,41*	160	44	29,00

MACHOS DE MANO PERFIL COMPLETO

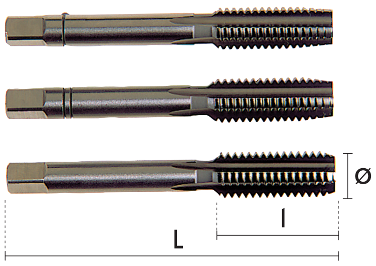
TARAUDS À MAIN PROFIL COMPLET / HANDS TAPS NON SERIAL FORM

2321 **HSS DIN 352** | M DIN 13 | MF DIN 13 | Tol. 6H

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3°
Taraud 3° } **PVP = €/3**
Tap 3°



Ø x P mm	Nº	€	L mm	l mm	□ mm
M2,00 x 0,40	3	*33,08*	36	8	2,10
M2,50 x 0,45	3	*34,21*	40	9	2,10
M3,00 x 0,50	3	*18,11*	40	11	2,70
M4,00 x 0,70	3	*16,68*	45	13	3,40
M5,00 x 0,80	3	*18,12*	50	16	4,90
M6,00 x 1,00	3	*18,12*	50	19	4,90
M7,00 x 1,00	3	*25,01*	50	19	4,90
M8,00 x 1,00	2	*20,75*	56	22	4,90
M8,00 x 1,25	3	*21,82*	56	22	4,90
M9,00 x 1,00	2	*26,82*	63	10	5,50
M9,00 x 1,25	3	*38,71*	63	22	5,50
M10,00 x 1,00	2	*22,50*	63	20	5,50
M10,00 x 1,25	2	*22,91*	70	24	5,50
M10,00 x 1,50	3	*27,55*	70	24	5,50
M11,00 x 1,00	2	*39,77*	63	20	6,20
M11,00 x 1,25	2	*39,77*	63	22	6,20
M11,00 x 1,50	3	*53,39*	70	24	6,20
M12,00 x 1,00	2	*39,29*	70	22	7,00
M12,00 x 1,25	2	*39,45*	70	22	7,00
M12,00 x 1,50	2	*33,56*	70	22	7,00
M12,00 x 1,75	3	*35,82*	75	29	7,00
M14,00 x 1,00	2	*58,78*	70	22	9,00
M14,00 x 1,25	2	*48,22*	70	22	9,00
M14,00 x 1,50	2	*37,46*	70	22	9,00
M14,00 x 2,00	3	*47,13*	80	30	9,00

Ø x P mm	Nº	€	L mm	l mm	□ mm
M16,00 x 1,00	2	*82,26*	70	22	9,00
M16,00 x 1,25	2	*86,59*	70	22	9,00
M16,00 x 1,50	2	*46,70*	70	22	9,00
M16,00 x 2,00	3	*66,36*	80	32	9,00
M18,00 x 1,50	2	*61,92*	80	22	11,00
M18,00 x 2,00	2	*98,52*	80	22	11,00
M18,00 x 2,50	3	*88,70*	95	40	11,00
M20,00 x 1,50	2	*77,27*	80	22	12,00
M20,00 x 2,00	2	*102,11*	80	22	12,00
M20,00 x 2,50	3	*99,69*	95	40	12,00
M22,00 x 1,50	2	*84,48*	80	22	14,50
M22,00 x 2,00	2	*135,84*	80	22	14,50
M22,00 x 2,50	3	*122,21*	100	40	14,50
M24,00 x 1,50	2	*107,84*	90	22	14,50
M24,00 x 2,00	2	*151,87*	90	22	14,50
M24,00 x 3,00	3	*153,94*	110	50	14,50
M26,00 x 1,50	2	*171,81*	90	22	14,50
M26,00 x 2,00	2	*354,56*	90	22	14,50
M27,00 x 3,00	3	*198,26*	110	50	16,00
M28,00 x 1,50	2	*190,88*	90	22	16,00
M30,00 x 3,50	3	*251,71*	125	56	18,00
M33,00 x 3,50	3	*319,35*	125	56	20,00
M36,00 x 4,00	3	*411,27*	150	63	22,00
M39,00 x 4,00	3	*456,99*	150	63	24,00
M42,00 x 4,50	3	*572,59*	150	63	24,00

MACHOS DE MANO PERFIL COMPLETO
TARAUDS À MAIN PROFIL COMPLET / HANDS TAPS NON SERIAL FORM

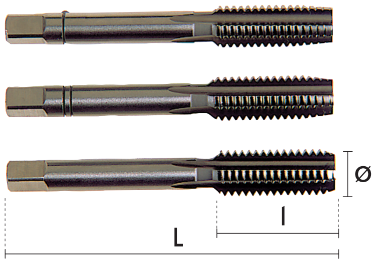
2322 HSS DIN 352

UNC ANSI/ASME B1.1 — Tol. 2B

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3º / Taraud 3º / Tap 3º — PVP = €/3



Ø x P mm	Nº	€	L mm	l mm	□ mm
UNC4-40	3	*45,82*	40	12	2,70
UNC5-40	3	*43,81*	40	12	2,70
UNC6-32	3	*43,81*	45	14	3,00
UNC8-32	3	*43,81*	45	14	3,40
UNC10-24	3	*43,81*	50	16	4,90
UNC12-24	3	*43,81*	50	18	4,90
UNC1/4-20	3	*35,46*	50	19	4,90
UNC5/16-18	3	*40,50*	56	22	4,90
UNC3/8-16	3	*45,79*	70	24	5,50
UNC7/16-14	3	*59,60*	70	24	6,20
UNC1/2-13	3	*68,60*	75	29	7,00

Ø x P mm	Nº	€	L mm	l mm	□ mm
UNC9/16-12	3	*80,99*	80	30	9,00
UNC5/8-11	3	*111,72*	80	32	9,00
UNC3/4-10	3	*152,10*	95	40	11,00
UNC7/8-9	3	*187,34*	100	40	14,50
UNC1"-8	3	*253,01*	110	50	14,50
UNC1",1/8-7	3	*386,23*	132	56	18,00
UNC1",1/4-7	3	*486,16*	132	56	18,00
UNC1",3/8-6	3	*616,73*	150	63	22,00
UNC1",1/2-6	3	*757,24*	150	63	24,00
UNC 1"3/4-5	3	*943,36*	160	70	29,00
UNC2"	3	*1.084,49*	190	85	32,00

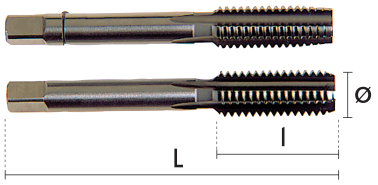
2323 HSS DIN 352 Perfil completo / Profil complet / Non serial form

UNF ANSI/ASME B1.1 — Tol. 2B

Aceros 400 - 800 N/mm² — **Aciers / Steel** F

Aplicaciones / Applications

Macho 3º / Taraud 3º / Tap 3º — PVP = €/2



Ø x P mm	Nº	€	L mm	l mm	□ mm
UNF4-48	2	*34,80*	36	11	2,70
UNF5-44	2	*34,80*	36	11	2,70
UNF6-40	2	*33,25*	40	12	3,00
UNF8-36	2	*33,25*	40	12	3,40
UNF10-32	2	*33,25*	45	14	4,90
UNF12-28	2	*34,80*	50	14	4,90
UNF1/4-28	2	*23,97*	50	18	4,90
UNF5/16-24	2	*25,65*	56	22	4,90
UNF3/8-24	2	*29,66*	63	22	5,50
UNF7/16-20	2	*39,38*	63	22	6,20

Ø x P mm	Nº	€	L mm	l mm	□ mm
UNF1/2-20	2	*40,27*	75	24	7,00
UNF9/16-18	2	*52,45*	80	28	9,00
UNF5/8-18	2	*67,74*	80	28	9,00
UNF3/4-16	2	*91,01*	95	32	11,00
UNF7/8-14	2	*116,95*	100	36	14,50
UNF1"-12	2	*155,06*	110	40	14,50
UNF1",1/8-12	2	*241,46*	110	50	18,00
UNF1",1/4-12	2	*304,57*	132	56	18,00
UNF1"3/8-12	2	*386,80*	132	56	22,00
UNF1",1/2-12	2	*473,61*	150	63	24,00

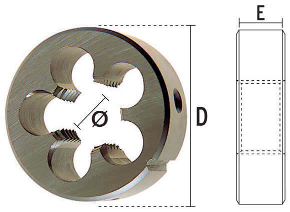
COJINETES
FILIÉRES / DIES

2551 **HSS DIN EN 22568**

1,25 tpi | GUN | >M3 | M DIN 13 | MF DIN 13 | Tol. 6g

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
** **M1,00 x0,25**	53,34	**16**	**5**	**1**
** **M1,10 x0,25**	88,07	**16**	**5**	**1**
** **M1,20 x0,25**	82,62	**16**	**5**	**1**
** **M1,40 x0,30**	75,70	**16**	**5**	**1**
M1,60 x0,35	71,53	**16**	**5**	**1**
M1,70 x0,35	71,53	**16**	**5**	**1**
M1,80 x0,35	71,53	**16**	**5**	**1**
M2,00 x0,40	30,27	**16**	**5**	**1**
M2,20 x0,45	70,86	**16**	**5**	**1**
M2,30 x0,40	30,27	**16**	**5**	**1**
M2,50 x0,45	30,27	**16**	**5**	**1**
M2,60 x0,45	30,27	**16**	**5**	**1**
M3,00 x0,50	26,03	**20**	**5**	**1**
MF3,00 x 0,60	33,81	20	5	1
MF3,50 x 0,60	26,88	20	5	1
MF3,50 x 0,75	87,21	20	5	1
MF4,00 x 0,50	32,16	20	5	1
M4,00 x0,70	26,03	**20 / 25**	**5/9**	**1**
M4,50 x0,75	35,10	**20**	5	**1**
MF5,00 x 0,50	35,46	20	5	1
MF5,00 x 0,75	37,65	20	7	1
M5,00 x0,80	26,03	**20**	**7**	**1**
MF5,50 x 0,90	87,21	20	7	1
MF6,00 x 0,50	34,51	20	7	1
MF6,00 x 0,75	31,87	20	7	1
M6,00 x1,00	26,03	**20**	**7**	**1**
MF7,00 x 0,75	33,61	25	9	1
M7,00 x1,00	28,38	**25**	**9**	**1**
MF8,00 x 0,50	41,44	25	9	1
MF8,00 x 0,75	33,61	25	9	1
MF8,00 x 1,00	33,61	25	9	1
M8,00 x1,25	27,19	**25**	**9**	**1**
MF9,00 x 1,00	37,48	25	9	1
M9,00 x1,25	40,03	**25**	**9**	**1**
MF10,00 x 0,50	70,67	30	11	1
MF10,00 x 0,75	52,34	30	11	1
MF10,00 x 1,00	35,64	30	11	1
MF10,00 x 1,25	44,64	30	11	1
M10,00 x1,50	38,82	**30**	**11**	**1**
MF11,00 x 0,75	96,78	30	11	1
MF11,00 x 1,00	52,07	30	11	1
MF11,00 x 1,25	55,79	30	11	1
M11,00 x1,50	52,04	**30**	**11**	**1**
MF12,00 x 0,75	60,49	38	10	1
MF12,00 x 1,00	52,04	38	10	1
MF12,00 x 1,25	52,04	38	10	1
MF12,00x 1,50	46,49	38	10	1
M12,00 x 1,75	42,67	**38**	**14**	**1**
MF13,00x 0,75	96,78	38	10	1

Ø x P mm	€	D mm	E mm	
MF13,00x 1,00	61,18	38	10	1
MF13,00x 1,50	63,81	38	10	1
M13,00 x 1,75	63,81	**38**	**14**	**1**
MF14,00x 0,75	95,07	38	10	1
MF14,00x 1,00	57,10	38	10	1
MF14,00x 1,25	56,73	38	10	1
MF14,00x 1,50	48,60	38	10	1
M14,00 x 2,00	42,67	**38**	**14**	**1**
MF15,00x 1,00	69,36	38	10	1
MF15,00x 1,50	69,36	38	10	1
M15,00 x 2,00	85,52	**38**	**14**	**1**
MF16,00x 1,00	72,19	45	14	1
MF16,00x 1,25	65,64	45	14	1
MF16,00x 1,50	54,10	45	14	1
M16,00 x 2,00	57,32	**45**	**14**	**1**
MF17,00x 1,00	103,21	45	14	1
MF17,00x 1,25	103,21	45	14	1
MF17,00x 1,50	103,21	45	14	1
MF18,00x 1,00	75,48	45	14	1
MF18,00x 1,25	85,80	45	14	1
MF18,00x 1,50	66,76	45	14	1
MF18,00x 2,00	75,48	45	14	1
M18,00 x 2,50	57,32	**45**	**18**	**1**
MF19,00x 1,00	167,30	45	14	1
MF19,00x 1,25	167,30	45	14	1
MF19,00x 1,50	170,29	45	14	1
MF20,00x 1,00	75,17	45	14	1
MF20,00x 1,25	167,30	45	14	1
MF20,00x 1,50	68,90	45	14	1
MF20,00x 2,00	75,71	45	14	1
M20,00 x 2,50	57,32	**45**	**18**	**1**
MF21,00x 1,00	194,05	45	14	1
MF21,00x 1,25	194,05	45	14	1
MF21,00x 1,50	159,94	45	14	1
MF22,00x 1,00	102,64	55	16	1
MF22,00x 1,25	167,30	55	16	1
MF22,00x 1,50	88,31	55	16	1
MF22,00x 2,00	98,24	55	16	1
M22,00 x 2,50	84,34	**55**	**22**	**1**
MF23,00x 1,50	194,05	55	16	1
MF24,00x 1,00	98,24	55	16	1
MF24,00x 1,25	167,30	55	16	1
MF24,00x 1,50	88,31	55	16	1
MF24,00x 2,00	98,24	55	16	1
M24,00 x 3,00	84,34	**55**	**22**	**1**
MF25,00x 1,00	151,93	55	16	1
MF25,00x 1,50	128,29	55	16	1
MF26,00x 1,00	220,40	55	16	1
MF26,00x 1,50	121,43	55	16	1

****Tol. 6h**

(**continúa Ref.2501** / suite Réf.2501 / Ref.2501 cont'd)

COJINETES
FILIÉRES / DIES

(**continúa Ref.2501** / suite Réf.2501 / Ref.2501 cont'd)

Ø x P mm	€	D mm	E mm	Uds.
MF26,00 x 2,00	220,40	55	16	1
MF27,00 x 1,00	135,63	65	18	1
MF27,00 x 1,50	133,54	65	18	1
MF27,00 x 2,00	145,23	65	18	1
M27,00 x 3,00	121,43	**65**	**25**	**1**
MF28,00 x 1,00	220,40	65	18	1
MF28,00 x 1,50	133,54	65	18	1
MF28,00 x 2,00	220,40	65	18	1
MF30,00 x 1,00	149,12	65	18	1
MF30,00 x 1,50	133,51	65	18	1
MF30,00 x 2,00	149,12	65	18	1
M30,00 x 3,50	125,28	**65**	**25**	**1**
MF32,00 x 1,00	224,32	65	18	1
MF32,00 x 1,50	141,09	65	18	1
MF32,00 x 2,00	220,40	65	18	1
MF33,00 x 1,50	133,54	65	18	1
MF33,00 x 2,00	145,41	65	18	1
M33,00 x 3,50	125,28	**65**	**25**	**1**
MF34,00 x 1,50	139,32	65	18	1
MF34,00 x 2,00	312,53	65	18	1
MF35,00 x 1,50	144,51	65	18	1
MF35,00 x 2,00	312,53	65	18	1
MF36,00 x 1,50	136,79	65	18	1
MF36,00 x 2,00	145,41	65	18	1
MF36,00 x 3,00	158,27	65	25	1
M36,00 x 4,00	129,89	**65**	**25**	**1**
MF38,00 x 1,50	206,90	75	20	1
MF38,00 x 2,00	396,05	75	20	1

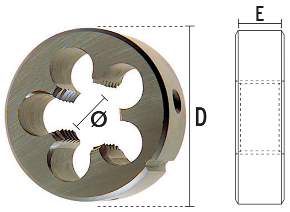
Ø x P mm	€	D mm	E mm	Uds.
MF39,00 x 1,50	207,90	75	20	1
MF39,00 x 2,00	219,53	75	20	1
MF39,00 x 3,00	249,47	75	30	1
M39,00 x 4,00	194,96	**75**	**30**	**1**
MF40,00 x 1,50	215,86	75	20	1
MF40,00 x 2,00	219,53	75	20	1
MF40,00 x 3,00	239,43	75	30	1
MF42,00 x 1,50	283,75	75	20	1
MF42,00 x 2,00	317,19	75	20	1
MF42,00 x 3,00	330,92	75	30	1
M42,00 x 4,50	194,96	**75**	**30**	**1**
MF45,00 x 1,50	283,75	90	22	1
MF45,00 x 2,00	317,19	90	22	1
MF45,00 x 3,00	330,92	90	36	1
M45,00 x 4,50	298,17	**90**	**36**	**1**
MF48,00 x 1,50	285,54	90	22	1
MF48,00 x 2,00	291,89	90	22	1
MF48,00 x 3,00	317,19	90	36	1
M48,00 x 5,00	298,53	**90**	**36**	**1**
MF50,00 x 1,50	283,75	90	22	1
MF52,00 x 1,50	283,75	90	36	1
MF52,00 x 2,00	329,76	90	22	1
MF52,00 x 3,00	359,89	90	36	1
M52,00 x 5,00	298,53	**90**	**36**	**1**
M56,00 x 5,50	532,96	**105**	**36**	**1**
M60,00 x 5,50	532,96	**105**	**36**	**1**
MF63 x 1,50	1005,91	105	22	1
M64,00 x 6,00	637,27	**120**	**36**	**1**

2551/5 HSS DIN EN 22568

Izquierda / A gauche / Left hand / 1,25 tpi · GUN · >M3 · M DIN 13 · MF DIN 13 · Tol. 6g · LH

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	Uds.
M3 x 0,50	52,07	**20**	**5**	**1**
M4 x 0,70	52,07	**20**	**5**	**1**
M5 x 0,80	52,07	**20**	**7**	**1**
M6 x 1,00	52,07	**20**	**7**	**1**
M7 x 1,00	56,76	**25**	**9**	**1**
MF8 x 1,00	67,20	25	9	1
M8 x 1,25	54,39	**25**	**9**	**1**
MF10 x 1,00	71,30	30	11	1
MF10 x 1,25	89,28	30	11	1
M10 x 1,50	77,64	**30**	**11**	**1**
MF12 x 1,25	104,09	38	10	1
MF12 x 1,50	77,64	38	10	1
M12 x 1,75	85,33	**38**	**14**	**1**
MF14 x 1,50	97,23	38	10	1

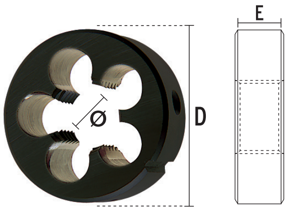
Ø x P mm	€	D mm	E mm	Uds.
M14 x 2,00	85,32	**38**	**14**	**1**
MF16 x 1,50	108,21	45	14	1
M16 x 2,00	114,66	**45**	**18**	**1**
MF18 x 1,50	133,51	45	14	1
M18 x 2,50	114,66	**45**	**18**	**1**
MF20 x 1,50	137,78	45	14	1
M20 x 2,50	114,66	**45**	**18**	**1**
MF22 x 1,50	176,62	55	16	1
M22 x 2,50	168,66	**55**	**22**	**1**
MF24 x 1,50	176,62	55	16	1
M24 x 3,00	168,66	**55**	**22**	**1**
M27 x 3,00	242,84	**65**	**25**	**1**
M30 x 3,50	250,54	**65**	**25**	**1**

2514 HSSE DIN EN 22568

M DIN 13 | MF DIN 13 | Tol. 6g | NIT | 2 fpi | GUN

Aceros 800 - 1100 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
M3 x 0,50	*37,93*	20	5	1
M4 x 0,70	*37,93*	20	5	1
M5 x 0,80	*37,93*	20	7	1
M6 x 1,00	*37,93*	20	7	1
M8 x 1,25	*39,63*	25	9	1

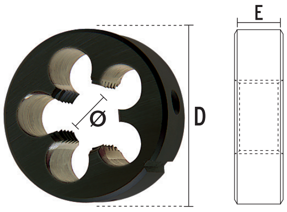
Ø x P mm	€	D mm	E mm	
M10 x 1,50	*56,53*	30	11	1
M12 x 1,75	*62,15*	38	14	1
M14 x 2,00	*64,64*	38	14	1
M16 x 2,00	*86,80*	45	18	1

2512 HSSE DIN EN 22568

M DIN 13 | Tol. 6g | VAP | 2 fpi | GUN

Aceros inoxidables — **Aciers inox / Stainless Steel** 1100 N/mm2

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
M3,00 x 0,50	*32,21*	20	5	1
M4,00 x 0,70	*32,21*	20	5	1
M5,00 x 0,80	*32,21*	20	7	1
M6,00 x 1,00	*32,21*	20	7	1
M8,00 x 1,25	*33,65*	25	9	1
M10,00 x 1,50	*48,05*	30	11	1

Ø x P mm	€	D mm	E mm	
M12,00 x 1,75	*52,82*	38	14	1
M14,00 x 2,00	*53,88*	38	14	1
M16,00 x 2,00	*72,33*	45	18	1
M18,00 x 2,50	*72,33*	45	18	1
M20,00 x 2,50	*72,33*	45	18	1

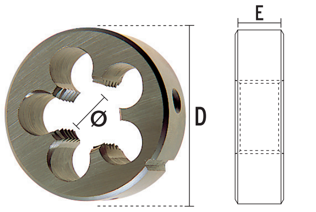
COJINETES
FILIÉRES / DIES

2552 HSS DIN EN 22568

1,25 tpi | GUN | BSW BS 84

Aceros 400 - 800 N/mm^2 — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
W3/32 - 48h	35,86	16	5	1
W1/8 - 40h	29,07	20	5	1
W5/32 - 32h	29,07	20	5	1
W3/16 - 24h	29,07	20	7	1
W7/32 - 24h	29,07	20	7	1
W1/4 - 20h	29,07	20	7	1
W5/16 - 18h	30,32	25	9	1
W3/8 - 16h	43,91	30	11	1
W7/16 - 14h	43,91	38	14	1
W1/2 - 12h	43,91	38	14	1
W9/16 - 12h	52,61	38	14	1
W5/8 - 11h	63,89	45	14	1

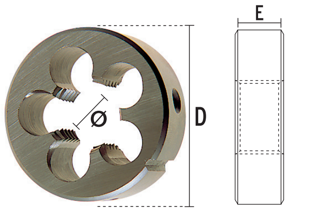
Ø x P mm	€	D mm	E mm	
W3/4 - 10h	63,88	45	18	1
W7/8 - 9h	93,96	55	22	1
W1" - 8h	93,96	55	22	1
W1" 1/8 - 7h	147,93	65	25	1
W1" 1/4 - 7h	147,93	65	25	1
W1" 3/8 - 6h	150,66	65	25	1
W1" 1/2 - 6h	228,99	75	30	1
W1" 5/8 - 5h	304,37	75	30	1
W1" 3/4 - 5h	383,04	90	36	1
W1" 7/8 - 4,5h	419,10	90	36	1
W2" - 4,5h	398,97	90	36	1

2552/5 HSS DIN EN 22568 Izquierda / A gauche / Left hand

1,25 tpi | GUN | BSW BS 84 | LH

Aceros 400 - 800 N/mm^2 — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
W1/8 - 40h	58,14	20	5	1
W5/32 - 32h	58,14	20	5	1
W3/16 - 24h	58,14	20	7	1
W1/4 - 20h	58,14	20	7	1
W5/16 - 18h	60,64	25	9	1
W3/8 - 16h	87,84	30	11	1

Ø x P mm	€	D mm	E mm	
W7/16 - 14h	87,84	38	14	1
W1/2 - 12h	87,84	38	14	1
W9/16 - 12h	105,22	38	14	1
W5/8 - 11h	127,81	45	18	1
W7/8 - 9h	187,94	55	22	1
W1" - 8h	187,94	55	22	1

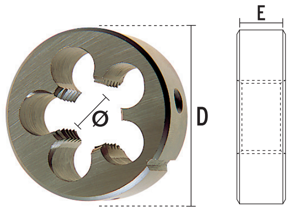
COJINETES
FILIÉRES / DIES

2553 HSS DIN EN 22568

1,25 tpi GUN BSF BS 84

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
BSF3/16 - 32h	*131,57*	20	7	1
BSF1/4 - 26h	*45,82*	20	7	1
BSF5/16 - 22h	*45,67*	25	9	1
BSF3/8 - 20h	*80,10*	30	11	1
BSF7/16 - 18h	*80,10*	30	11	1
BSF1/2 - 16h	*80,10*	38	10	1

Ø x P mm	€	D mm	E mm	
BSF9/16 - 16h	*89,32*	38	10	1
BSF5/8 - 14h	*112,86*	45	14	1
BSF3/4 - 12h	*112,86*	45	14	1
BSF7/8 - 11h	*166,87*	55	22	1
BSF1" - 10h	*166,87*	55	22	1

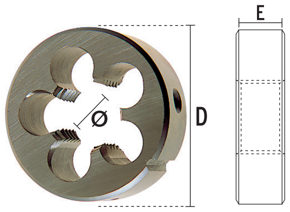
***(Hasta fin de existencias / Jusqu'à épuisement des stocks / While supplies last)**

2554 HSS DIN EN 24231

1,25 tpi GUN G ISO 228

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
G1/8 - 28h	*46,78*	30	10	1
G1/4 - 19h	*46,78*	38	10	1
G3/8 - 19h	*60,49*	45	14	1
G1/2 - 14h	*60,49*	45	14	1
G5/8 - 14h	*83,88*	55	16	1
G3/4 - 14h	*125,36*	55	16	1
G7/8 - 14h	*131,23*	65	18	1

Ø x P mm	€	D mm	E mm	
G1" - 11h	*131,23*	65	18	1
G1"1/8 - 11h	*187,06*	75	20	1
G1"1/4 - 11h	*184,11*	75	20	1
G1"3/8 - 11h	*290,22*	90	22	1
G1"1/2 - 11h	*282,03*	90	22	1
G1"3/4 - 11h	*290,22*	105	22	1
G2" - 11h	*349,27*	105	22	1

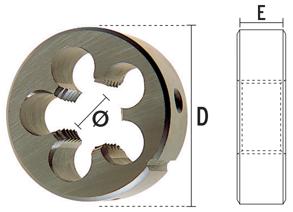
***(Hasta fin de existencias / Jusqu'à épuisement des stocks / While supplies last)**

2554/5 HSS DIN EN 24231 Izquierda / A gauche / Left hand

1,25 tpi GUN G ISO 228 LH

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
G1/8 - 28h	*93,54*	30	10	1
G1/4 - 19h	*93,54*	38	10	1
G3/8 - 19h	*120,96*	45	14	1
G1/2 - 14h	*120,96*	45	14	1

Ø x P mm	€	D mm	E mm	
G5/8 - 14h	*167,78*	55	16	1
G3/4 - 14h	*250,75*	55	16	1
G7/8 - 14h	*262,49*	65	18	1
G1" - 11h	*262,49*	65	18	1

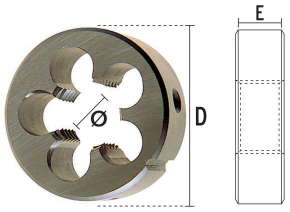
***(Hasta fin de existencias / Jusqu'à épuisement des stocks / While supplies last)**

2522 HSS DIN EN 24231

1,5 tpi | GUN | G ISO 228

Latón y bronce — Laiton et Bronze / Brass and bronze

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
G 1/8 - 28h	*50,56*	30	11	1
G 1/4 - 19h	*50,56*	38	10	1
G 3/8 - 19h	*65,43*	45	14	1
G 1/2 - 14h	*65,43*	45	14	1

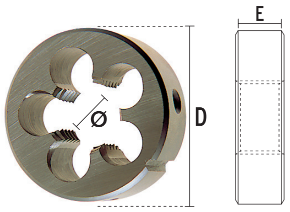
Ø x P mm	€	D mm	E mm	
G 5/8 - 14h	*103,32*	55	16	1
G 3/4 - 14h	*135,50*	55	16	1
G 7/8 - 14h	*141,86*	65	18	1
G 1" - 11h	*141,86*	65	18	1

2521 HSS DIN EN 24231

2 tpi | GUN | - 0,1 | G ISO 228

Latón y bronce — Laiton et Bronze / Brass and bronze

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
G 1/8 - 28h	*55,61*	30	11	1
G 1/4 - 19h	*55,61*	38	10	1
G 3/8 - 19h	*71,96*	45	14	1
G 1/2 - 14h	*71,96*	45	14	1

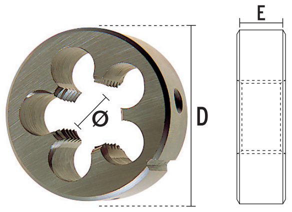
Ø x P mm	€	D mm	E mm	
G 5/8 - 14h	*143,56*	55	16	1
G 3/4 - 14h	*149,06*	55	16	1
G 7/8 - 14h	*181,21*	65	18	1
G 1" - 11h	*181,21*	65	18	1

2555 HSS DIN EN 22568

1,25 tpi | GUN | UNC ANSI/ASME B1.1 | Tol. 2A

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm		€	D mm	E mm	Pack
Nº4	- 40h	*37,36*	20	5	1
Nº5	- 40h	*37,36*	20	5	1
Nº6	- 32h	*37,36*	20	5	1
Nº8	- 32h	*37,36*	20	7	1
Nº10	- 24h	*37,36*	20	7	1
Nº12	- 24h	*37,36*	20	7	1
1/4	- 20h	*34,40*	20	7	1
5/16	- 18h	*33,61*	25	9	1
3/8	- 16h	*49,50*	30	11	1
7/16	- 14h	*49,50*	30	11	1
1/2	- 13h	*50,94*	38	14	1

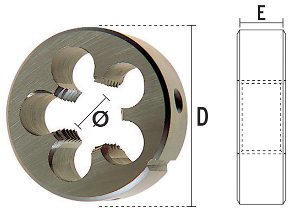
Ø x P mm		€	D mm	E mm	Pack
9/16	- 12h	*53,30*	38	14	1
5/8	- 11h	*69,95*	45	18	1
3/4	- 10h	*69,95*	45	18	1
7/8	- 9h	*91,50*	55	22	1
1"	- 8h	*91,50*	55	22	1
1"1/8	- 7h	*135,90*	65	25	1
1"1/4	- 7h	*135,90*	65	25	1
1"3/8	- 6h	*135,90*	65	25	1
1"1/2	- 6h	*211,91*	75	25	1
1"3/4	- 5h	*454,07*	90	36	1
2"	- 4,5h	*460,20*	90	36	1

2555/5 HSS DIN EN 22568 Izquierda / A gauche / Left hand

1,25 tpi | GUN | UNC ANSI/ASME B1.1 | Tol. 2A | LH

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	Pack
UNC 1/4 - 20h	*68,79*	20	7	1
UNC 5/16 - 18h	*67,20*	25	9	1
UNC 3/8 - 16h	*99,01*	30	11	1
UNC 7/16 - 14h	*99,01*	30	11	1
UNC 1/2 - 13h	*101,87*	38	14	1

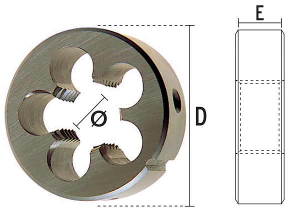
Ø x P mm	€	D mm	E mm	Pack
UNC 9/16 - 12h	*106,63*	38	14	1
UNC 5/8 - 11h	*139,89*	45	18	1
UNC 3/4 - 10h	*139,89*	45	18	1
UNC 7/8 - 9h	*183,03*	55	22	1
UNC 1" - 7h	*183,03*	55	22	1

2556 HSS DIN EN 22568

1,25 tpi | GUN | UNF ANSI/ASME B1.1 | Tol. 2A

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
Nº4 - 48h	37,70	16	5	1
Nº5 - 44h	37,70	20	5	1
Nº6 - 40h	37,70	20	5	1
Nº8 - 36h	37,70	20	5	1
Nº10 - 32h	37,70	20	7	1
Nº12 - 28h	36,96	20	7	1
1/4 - 28h	29,86	20	7	1
5/16 - 24h	35,49	25	9	1
3/8 - 24h	49,82	30	11	1
7/16 - 20h	45,81	30	11	1

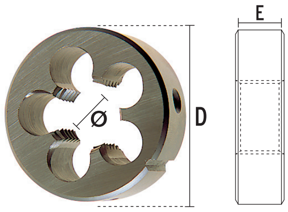
Ø x P mm	€	D mm	E mm	
1/2 - 20h	52,30	38	10	1
9/16 - 18h	56,32	38	10	1
5/8 - 18h	71,98	45	14	1
3/4 - 16h	71,98	45	14	1
7/8 - 14h	96,67	55	16	1
1" - 12h	96,67	55	16	1
1"1/8 - 12h	148,88	65	18	1
1"1/4 - 12h	148,88	65	18	1
1"3/8 - 12h	222,68	65	18	1
1"1/2 - 12h	222,68	75	20	1

2556/5 HSS DIN EN 22568 Izquierda / A gauche / Left hand

1,25 tpi | GUN | UNF ANSI/ASME B1.1 | Tol. 2A | LH

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
UNF 1/4 - 28h	59,73	20	7	1
UNF 5/16 - 24h	71,00	25	9	1
UNF 3/8 - 24h	99,62	30	11	1
UNF 7/16 - 20h	91,60	30	11	1
UNF 1/2 - 20h	104,59	38	10	1

Ø x P mm	€	D mm	E mm	
UNF 9/16 - 18h	112,64	38	10	1
UNF 5/8 - 18h	143,96	45	14	1
UNF 3/4 - 16h	143,96	45	14	1
UNF 7/8 - 14h	193,34	55	16	1
UNF 1" - 12h	193,34	55	16	1

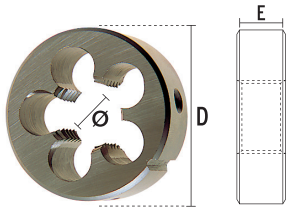
COJINETES
FILIÉRES / DIES

2557 HSS DIN EN 24230

1,25 tpi | GUN | R DIN 2999

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	Uds.
R1/8 - 28h	110,08	30	11	1
R1/4 - 19h	110,08	38	14	1
R3/8 - 19h	143,38	45	18	1

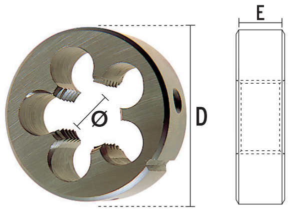
Ø x P mm	€	D mm	E mm	Uds.
R1/2 - 14h	143,38	55	22	1
R3/4 - 14h	270,72	55	22	1
R1" - 11h	288,45	65	25	1

2558 HSS DIN EN 22568

1,25 tpi | GUN | UNEF ANSI/ASME B1.1 | Tol. 2A

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	Uds.
1/4 - 32h	112,53	20	7	1
5/16 - 32h	112,53	25	9	1
3/8 - 32h	174,73	30	11	1
7/16 - 28h	174,73	30	11	1
1/2 - 28h	174,73	38	10	1

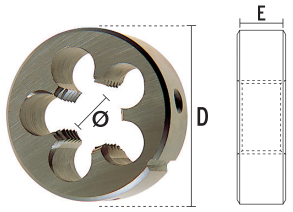
Ø x P mm	€	D mm	E mm	Uds.
9/16 - 24h	174,73	38	10	1
5/8 - 24h	280,05	45	14	1
3/4 - 20h	280,05	45	14	1
1" - 20h	342,27	55	16	1

2570 HSS DIN EN 22568

1,25 tpi | GUN | UN ANSI/ASME B1.1 | Tol. 2A

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	Uds.
UN 1"1/8 - 8h	372,37	65	25	1
UN 1"1/4 - 8h	372,37	65	25	1
UN 1"3/8 - 8h	399,47	65	25	1
UN 1"1/2 - 8h	422,79	75	30	1

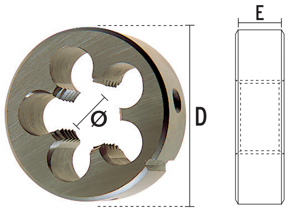
Ø x P mm	€	D mm	E mm	Uds.
UN 1"5/8 - 8h	533,21	75	30	1
UN 1"3/4 - 8h	648,58	90	36	1
UN 2" - 8h	648,58	90	36	1

2560 HSS DIN 40434

1,25 tpi | GUN | PG DIN 40430

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



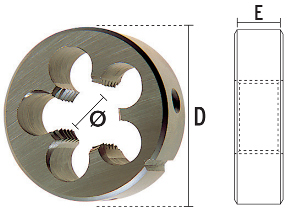
Ø x P mm	€	D mm	E mm	
Pg.7 (12,50 x 20h)	*66,84*	38	10	1
Pg.9 (15,20 x 18h)	*66,84*	45	14	1
Pg.11 (18,60 x 18h)	*83,71*	45	14	1
Pg.13,5 (20,40 x 18h)	*83,71*	45	14	1
Pg.16 (22,50 x 18h)	*107,93*	55	16	1
Pg.21 (28,30 x 16h)	*153,42*	65	18	1
Pg.29 (37,00 x 16h)	*153,42*	65	18	1
Pg.36 (47,00 x 16h)	*393,20*	90	22	1
Pg.42 (54,00 x 16h)	*393,20*	105	22	1
Pg.48 (59,30 x 16h)	*521,46*	105	22	1

2559 HSS DIN EN 24230

1,25 tpi | GUN | NPT ANSI/ASME B1.20.1

Aceros 400 - 800 N/mm² — **Aciers / Steel**

Aplicaciones / Applications



Ø x P mm	€	D mm	E mm	
1/16 - 27h	*85,09*	25	9	1
1/8 - 27h	*70,20*	30	10	1
1/4 - 18h	*70,20*	38	14	1
3/8 - 18h	*91,67*	45	18	1
1/2 - 14h	*91,67*	45	18	1
3/4 - 14h	*167,66*	55	22	1
1" - 11,50h	*201,59*	65	25	1
1"1/4 - 11,50h	*250,51*	75	26	1
1"1/2 - 11,50h	*349,46*	90	27	1
2" - 11,50h	*486,54*	105	28	1

2821 Macho Nº3 / Taraud / Tap

M
DIN 13

HSS

HSSCO

HSSCO INOX

	Machos Tarauds / Taps	Brocas Forets / Drill-bits	Giramachos nº Tourne-à-gauche nº Tap turner nº	€
HSS	M3-4-5-6-8-10-12	2,50-3,30-4,20-5,00-6,80-8,50-10,20	1,50	*85,94*
HSSCO	M3-4-5-6-8-10-12	2,50-3,30-4,20-5,00-6,80-8,50-10,20	1,50	*147,01*
HSSCO INOX	M3-4-5-6-8-10-12	2,50-3,30-4,20-5,00-6,80-8,50-10,20	1,50	*148,71*

2822/2840 Juegos de machos / Jeux de taraud / Tap set

M
DIN 13

>2822

>2840

Ref.	Machos Tarauds / Taps	Brocas Forets / Drill-bits	€
2822	M3-4-5-6-8-10-12	-	*130,67*
2840	M3-4-5-6-8-10-12	2,50-3,30-4,20-5,00-6,80-8,50-10,20	*190,74*

ESTUCHES
COFFRETS / CASES

2824 M3-12

Form. B "Gun" | M 3-4-5-6-8-10-12 | 7

>HSS E

>HSSE-PM

>HSSE VAP

>HSSE TIN

>HSSE ALU


REF.	€
HSS E	*128,38*
HSSE-PM	*250,78*
HSSE VAP (INOX)	*162,08*
HSSE TIN	*164,25*
HSSE ALU	*174,89*

2825 M3-12

35° | M 3-4-5-6-8-10-12 | 7

>HSS E

>HSSE-PM

>HSSE VAP

>HSSE TIN

>HSSE ALU


REF.	€
HSS E	*132,86*
HSSE-PM	*279,03*
HSSE VAP (INOX)	*180,13*
HSSE TIN	*180,13*
HSSE ALU	*163,04*

2850 M3-12

Form B | M 3-4-5-6-8-10-12 | Ø 2,5-3,3-4,2-5-6, 8-8,5-10,2 | 14

>HSSE + HSSCO

>HSSEVAP + HSSCO


REF.	€
HSSE+HSSCO	*159,04*
HSSEVAP(INOX)+HSSCO	*192,74*

2851 M3-12

35° | M 3-4-5-6-8-10-12 | Ø 2,5-3,3-4,2-5-6, 8-8,5-10,2 | 14

>HSSE + HSSCO

>HSSEVAP + HSSCO


REF.	€
HSSE+HSSCO	*163,52*
HSSEVAP(INOX)+HSSCO	*210,79*