

## VC-Silver-Line



VC-Silver-Line



### CARACTERÍSTICAS:

Sierras de cinta con metal duro con geometría de multiviruta.

- ▶ Macizos con secciones medianas y grandes
- ▶ Aceros inoxidables y resistentes al ácido
- ▶ Aleaciones especiales
- ▶ Aceros resistentes al calor
- ▶ Aleaciones para trabajar en caliente
- ▶ Aleaciones para trabajar en frío
- ▶ Aleaciones de aluminio con silicio
- ▶ Los dientes de metal duro soldados por un procedimiento especial y rectificadas en precisión con geometría multiviruta permiten cortar con casi ninguna vibración y alcanzan rendimientos de corte altos y con vida útil óptima.

DIMENSIÓN	GRUPO DE DIENTES CON PASO VARIABLE					
	Pulgada	0,75/1,25	1/1,5	1,4/2	2/3	3/4
27x0,90	1x0,035				K	
34x1,10	1 1/4x0,042			K	K	K
41x1,30	1 1/2x0,050			K	K	K
54x1,30	2x0,050			K	K	
54x1,60	2x0,063	K	K	K	K	
67x1,60	2 5/8x0,063	K	K	K		
80x1,60	3x0,063	K		K		

K = Diente Combinado

# Machos

# Mano

## M Juego de Machos métrica ISO-ROSCA DIN 13



### Roscado



#### Métricas existentes

Desde métrica  
**1,00 x 0,25 (mm)**  
hasta Métrica  
**68,00 x 6,00 (mm)**

D Ø x P (mm)	D (mm)	L1 (mm)	L2 (mm)	D2 (mm)	Cod.
M 1,00x0,25	32	5,5	2,5	2,1	2R27302
M 1,10x0,25	32	5,5	2,5	2,1	2R27304
M 2,50x0,45	40	9,0	2,8	2,1	2R27322
M 2,60x0,45	40	9,0	2,8	2,1	2R27324
M 10,00x1,50	70	24,0	7,0	5,5	2R27346
M 11,00x1,50	70	24,0	8,0	6,2	2R27348
M 27,00x3,00	110	50,0	20,0	16,0	2R27376
M 30,00x3,50	125	56,0	22,0	18,0	2R27378
M 52,00x5,00	180	75,0	40,0	32,0	2R27392
M 56,00x5,50	200	85,0	45,0	35,0	2R27394
M 68,00x6,00	220	90,0	50,0	39,0	2R27399

DIN 352

HSS-G

TOL 6H

## M Juego de Machos métrica ISO-ROSCA DIN 13 Entrada Cónica



### Roscado



#### Métricas existentes

Desde métrica  
**2,00 x 0,40 (mm)**  
hasta Métrica  
**42,00 x 4,50 (mm)**

D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 2,00x0,40	36	8	2,8	2,1	2R27616
M 1,10x0,25	40	9	2,8	2,1	2R27622
M 8,00x1,25	56	22	6,0	4,9	2R27642
M 9,00x1,25	63	22	7,0	5,5	2R27644
M 14,00x2,00	80	30	11,0	9,0	2R27654
M 16,00x2,00	80	32	12,0	9,0	2R27658
M 24,00x3,00	110	50	18,0	14,5	2R27674
M 27,00x3,00	110	50	20,0	16,0	2R27676
M 36,00x4,00	150	63	28,0	22,0	2R27682
M 39,00x4,00	150	63	32,0	24,0	2R27684
M 42,00x4,50	150	63	32,00	24,0	2R27686

DIN 352

HSS-G

TOL 6H

## MF Juego de Machos métrica fina DIN 13



### Roscado



#### Métricas existentes

Desde métrica  
**2,50 x 0,35 (mm)**  
hasta Métrica  
**110 x 4,00 (mm)**

DIN 2181



HSS-G

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠(mm)	Cod.
M 2,50x0,35	40	9	2,8	2,1	2R26304
M 2,50x0,35	40	9	2,8	2,1	2R26305
M 7,00x0,50	50	14	6,0	4,9	2R26319
M 7,00x0,75	50	14	6,0	4,9	2R26320
M 10,00x0,50	63	20	7,0	5,5	2R26331
M 10,00x0,75	63	20	7,0	5,5	2R26332
M 12,00x1,25	70	22	9,0	7,0	2R26346
M 12,00x1,50	70	22	9,0	7,0	2R26348
M 14,00x1,00	70	22	11,0	9,0	2R26353
M 14,00x1,25	70	22	11,0	9,0	2R26354
M 16,00x0,50	70	22	12,0	9,0	2R26361
M 16,00x0,75	70	22	12,0	9,0	2R26363
M 16,00x1,00	70	22	12,0	9,0	2R26362
M 19,00x1,00	80	22	16,0	12,0	2R26375
M 19,00x1,50	80	22	14,0	11,0	2R26376

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠(mm)	Cod.
M 22,00x1,50	80	22	18,0	14,5	2R26394
M 22,00x2,00	80	22	18,0	14,5	2R26396
M 28,00x1,00	90	22	20,0	16,0	2R26520
M 28,00x1,50	90	22	20,0	16,0	2R26522
M 28,00x2,00	90	22	20,0	16,0	2R26524
M 35,00x2,00	125	40	28,0	22,0	2R26549
M 36,00x1,00	100	25	28,0	22,0	2R26551
M 40,00x1,50	110	25	32,0	24,0	2R26564
M 40,00x2,00	125	40	32,0	24,0	2R26566
M 45,00x1,50	110	25	36,0	29,0	2R26576
M 55,00x1,50	140	32	40,0	32,0	2R28005
M 55,00x2,00	140	36	40,0	32,0	2R28006
M 60,00x3,00	160	40	45,0	35,0	2R28019
M 60,00x4,00	200	55	45,0	35,0	2R28020
M 64,00x4,00	220	60	50,0	39,0	2R28029
M 65,00x1,50	160	34	50,0	39,0	2R28030
M 65,00x2,00	160	36	50,0	39,0	2R28031
M 75,00x3,00	200	50	50,0	39,0	2R28052
M 75,00x4,00	240	60	50,0	39,0	2R28053
M 85,00x1,50	160	36	50,0	39,0	2R28074
M 95,00x4,00	280	70	56,0	44,0	2R28097
M 96,00x1,50	180	40	56,0	44,0	2R28098
M 110,00x4,00	280	75	56,0	44,0	2R28117

## BSW Juego de Machos Whitworth BS 84



### Roscado



#### Métricas existentes

Desde métrica  
**1/16 x 60 (")**  
hasta Métrica  
**2.3/4 x 3.1/2 (")**

DIN 351

HSS-G

≈DIN 352

D Ø x P(")	D (mm)	L1 (mm)	L2 (mm)	D2 (mm)	Cod.
1/16x60	36	10	2,5	2,1	2R22302
3/32x48	36	10	2,5	2,1	2R22304
1/4x20	50	19	6,0	4,9	2R22314
5/16x18	56	22	6,0	4,9	2R22312
5/8x11	80	32	12,0	9,0	2R22326
3/4x10	95	40	14,0	11,0	2R22330
1.3/8x6	150	63	28,0	22,0	2R22350
1.1/2x6	150	63	32,0	24,0	2R22354
1.7/8x4.1/2	190	80	36,0	29,0	2R22366
2x4.1/2	190	80	40,0	32,0	2R22370
2.3/4x3.1/2	240	80	50,0	39,0	2R22376
3x3.1/2	260	80	50,0	39,0	2R22378

## BSF Juego de Machos Rosca Británica Standard Fina BS 84



### Roscado



HSS-G

≈DIN 2181

D Ø x P(")	L1 (mm)	L2 (mm)	D2 (mm)	∠(mm)	Cod.
3/16x32	50	14	6,0	4,9	2R22710
1/4x26	50	18	6,0	4,9	2R22714
5/16x22	56	22	6,0	4,9	2R22716
3/8x20	63	22	7,0	5,5	2R22718
7/16x18	63	22	8,0	6,2	2R22720
1/2x16	75	24	9,0	7,0	2R22722
9/16x16	80	28	11,0	9,0	2R22724
5/8x14	80	28	12,0	9,0	2R22726
3/4x12	95	32	14,0	11,0	2R22730
7/8x11	100	36	18,0	14,5	2R22734
1x10	110	40	18,0	14,5	2R22738

**BA Juego de Machos Entrada Cónica BA, BS 93**

**Roscado**

**HSS-G BA ISO 529**

D Ø x P (")	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
BA 0	66	19,0	6,30	5,00	2R89400
BA 1	62	17,0	5,60	4,50	2R89401
BA 2	58	16,0	5,00	4,00	2E89402
BA 3	53	13,0	4,50	3,55	2R89403
BA 4	50	13,0	3,55	2,80	2R89404
BA 5	48	11,0	3,15	2,50	2R89405
BA 6	45	9,5	2,80	2,24	2R89406

**UNC Juego de Machos Rosca Gruesa Unificada ANSI B 1.1**

**Roscado**

**Métricas existentes**

 Desde métrica  
**1 x 64 (")**  
 hasta Métrica  
**2 x 4.1/2 (")**
**DIN 352 HSS-G TOL 2B**

D Ø x P (")	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
Nr. 1x64	32	10	2,5	2,1	2R23301
Nr. 2x56	36	11	2,8	2,1	2R23302
Nr. 8x32	45	14	4,5	3,4	2R23308
Nr. 10x24	50	16	6,0	4,9	2R23310
9/16x12	80	30	11,0	9,0	2R23324
5/8x11	80	32	12,0	9,0	2R23326
1.1/4x7	132	56	22,0	18,0	2R23346
1.3/8x6	150	63	28,0	22,0	2R23350
1.1/2x6	150	63	32,0	24,0	2R23354
1.5/8x5	160	70	32,0	24,0	2R23358
2x4.1/2	190	90	40,0	32,0	2R23370

**UNF Juego de Machos Rosca Fina Unificada ANSI B 1.1**

**Roscado**

**Métricas existentes**

 Desde métrica  
**0 x 80 (")**  
 hasta Métrica  
**1.1/2 x 12 (")**
**≈DIN 2181 HSS-G TOL 2B**

D Ø x P (")	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
Nr. 0x80	28	8	2,5	2,1	2R24300
Nr. 1x72	32	9	2,8	2,1	2R24301
Nr. 4x48	36	11	3,5	2,7	2R24304
Nr. 5x44	36	11	3,5	2,7	2R24305
Nr. 10x32	45	14	6,0	4,9	2R24310
Nr. 12x28	50	14	6,0	4,9	2R24312
1/2x20	75	24	9,0	7,0	2R24322
9/16x18	80	28	11,0	9,0	2R24324
1x14	110	40	18,0	14,5	2R24340
1.1/8x12	110	50	22,0	18,0	2R24342
1.1/2x12	150	63	32,0	24,0	2R24354

**G(BSP) Juego de Machos Rosca Gas DIN ISO 228**

**Roscado**

**Métricas existentes**

 Desde métrica  
**1/8 x 28 (")**  
 hasta Métrica  
**4 x 11 (")**
**DIN 5157 HSS-G TOL 2B**

D Ø x P (")	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
G. 1/8x28	63	20	7,0	5,5	2R25312
G. 1/4x19	70	22	11,0	9,0	2R25314
G. 5/8x14	80	22	18,0	14,5	2R25320
G. 3/4x14	90	22	20,0	16,0	2R25322
G. 1.1/8x11	125	40	28,0	22,0	2R25330
G. 1.1/4x11	125	40	32,0	24,0	2R25334
G. 1.5/8x11	140	40	40,0	32,0	2R25346
G. 1.3/4x11	140	40	40,0	32,0	2R25350
G. 2.1/2x11	160	40	50,0	39,0	2R25362
G. 2.3/4x11	160	40	50,0	39,0	2R25366
G. 4X11	180	45	56,0	44,0	2R25378

## PG Rosca para tubos Blindados DIN 40 430



### Roscado



DIN 40432

HSS-G

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
PG 7-12,50X20 PG 9-15,20X18	70 70	22 22	9,0 12,0	7,0 9,0	2R25707 2R25709
PG 11-18,60X18 PG 13,5-20,40X18	80 80	22 22	14,0 16,0	11,0 12,0	2R25711 2R25713
PG 16-22,50X18 PG 21-28,30X16	80 90	22 22	18,0 22,0	14,5 18,0	2R25716 2R25721
PG 29-37,00X16 PG 36-47,00X16	100 140	25 40	28,0 36,0	22,0 29,0	2R25729 2R25736
PG 48-59,30X16	160	40	45,0	35,0	2R25748

## UNEF Juego de machos Rosca extrafina unificada ANSI B1.1



### Entrada cónica Cobalto / Roscado



ISO 529

TOL 2B

HSS-CO 5%

D Ø x P(“)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
1/4X32 5/16X32	66 72	19 22	6,3 8,0	5,0 6,3	2R83821 2R83822
3/8X32 7/16X28	80 85	24 25	10,0 8,0	8,0 6,3	2R83823 2R83824
1/2X28 9/16X24	89 95	29 30	9,0 11,2	7,1 9,0	2R83825 2R83826
5/8X24 3/4X24	102 112	32 37	12,5 14,0	10,0 11,2	2R83827 2R83829
7/8X20 1X20	118 130	38 45	16,0 16,0	12,5 14,0	2R83831 2R83833

## TR Juego de machos Rosca Trapezoidal DIN 103



### Roscado



TOL 7H

HSS-G

D Ø x P(“)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
Tr 10x2 Tr 10x3	90 100	34 40	7 7	5,5 5,5	2R25108 2R25112
Tr 12x3 Tr 14x3	110 130	40 45	8 10	6,2 8,0	2R25116 2R25120
Tr 14x4 Tr 16x4	130 140	55 55	10 11	8,0 9,0	2R25124 2R25128
Tr 18x4 Tr 20x4	150 160	55 55	12 14	9,0 11,0	2R25132 2R25136
Tr 22x5 Tr 24x5	175 190	65 65	16 18	12,0 14,5	2R25140 2R25144
Tr 26x5 Tr 28x5	210 220	70 70	20 22	16,0 18,0	2R25148 2R25152
Tr 30x6 Tr 32x6	240 255	80 80	22 25	18,0 20,0	2R25156 2R25160

## M Juego de Machos Métrica Cobalto



### Roscado



#### Métricas existentes

Desde métrica  
3 x 0,50 (mm)  
hasta Métrica  
30 x 3,50 (mm)

DIN 352

HSS-CO 5%

TOL 6H

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50 M 4x0,70	40 45	11 13	3,5 4,5	2,7 3,4	2R57326 2R57330
M 8x1,25 M 10x1,50	56 70	22 24	6,0 7,0	4,9 5,5	2R57342 2R57346
M 16x2,00 M 18x2,50	80 95	32 40	12,0 14,0	9,0 11,0	2R57358 2R57362
M 24x3,00 M 27x3,00	110 110	50 50	18,0 20,0	14,5 16,0	2R57374 2R57376
M 30x3,50	125	56	22,0	18,0	2R57378


**M Juego de Machos Métrica con Punta Piloto Cobalto**
**Roscado**

**DIN 352**
**HSS-CO 5%**
**TOL 6H**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 3x0,50 M 4x0,70	40 45	11 13	3,5 4,5	2,7 3,4	2R57726 2R57730
M 5x0,80 M 6x1,00	50 50	16 19	6,0 6,0	4,9 4,9	2R57734 2R57738
M 8x1,25 M 10x1,50	56 70	22 24	6,0 7,0	4,9 5,5	2R57742 2R57746
M 12x1,75	75	29	9,0	7,0	2R57750

**Mf Juego de Machos Mano Métrica Fina Cobalto**
**Roscado**

**Métricas existentes**

 Desde métrica  
**6 x 0,75 (mm)**  
 hasta Métrica  
**24 x 1,50 (mm)**
**DIN 2181**
**HSS-CO 5%**
**TOL 6H**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 6x0,75 M 8x0,75	50 50	14 19	6,0 6,0	4,9 4,9	2R56318 2R56324
M 10x1,25 M 12x1,00	70 70	24 22	7,0 9,0	5,5 7,0	2R56338 2R56344
M 18x2,00 M 20x1,50	80 80	22 22	14,0 16,0	11,0 12,0	2R56374 2R56384
M 20x2,00 M 22x1,50	80 80	22 22	16,0 18,0	12,0 14,5	2R56386 2R56394
M 22x2,00 M 24x1,50	80 90	22 22	18,0 18,0	14,5 14,5	2R56396 2R56504


**G(BSP) Juego de Machos Rosca Gas DIN ISO Cobalto**
**Roscado**

**DIN 5157**
**HSS-CO 5%**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
G 1/8x28 G 1/4x19	63 70	20 22	7,0 11,0	5,5 9,0	2R55312 2R55314
G 3/8x19 G 1/2x14	70 80	22 22	12,0 16,0	9,0 12,0	2R55316 2R55318
G 3/4x14 G 1x11	90 100	22 25	20,0 25,0	16,0 20,0	2R55322 2R55326


**M Juego de Machos Métrica Izquierdas**
**Roscado**

**Métricas existentes**

 Desde métrica  
**3 x 0,50 (mm)**  
 hasta Métrica  
**52 x 5,00 (mm)**
**DIN 352**
**HSS-G**
**TOL 6H**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 5x0,80 M 6x1,00	50 50	16 19	6,0 6,0	4,9 4,9	2R27034 2R27038
M 12x1,75 M 14x2,00	75 80	29 30	9,0 11,0	7,0 9,0	2R27050 2R27054
M 30x3,50 M 33x3,50	125 125	56 56	22,0 25,0	18,0 20,0	2R27078 2R27080
M 36x4,00 M 39x4,00	150 150	63 63	28,0 32,0	22,0 24,0	2R27082 2R27084



### Mf Juego de machos Métrica Fina Izquierdas



#### Roscado



**Métricas existentes**

Desde métrica  
**6 x 0,75 (mm)**  
hasta Métrica  
**30 x 2,00 (mm)**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 8x1,00 M 10x1,00	56 63	22 20	6,0 7,0	4,9 5,5	2R26011 2R26015
M 12x1,25 M 12x1,50	70 70	22 22	9,0 9,0	7,0 7,0	2R26021 2R26022
M 16x1,00 M 16x1,50	70 70	22 22	12,0 12,0	9,0 9,0	2R26031 2R26033
M 18x1,50 M 20x1,50	80 80	22 22	14,0 16,0	11,0 12,0	2R26036 2R26040

DIN 2181

HSS-G

TOL  
6H

### M Juego de Machos Métrica Izquierdas



#### Roscado



**Métricas existentes**

Desde métrica  
**3 x 0,50 (mm)**  
hasta Métrica  
**52 x 5,00 (mm)**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 5x0,80 M 6x1,00	50 50	16 19	6,0 6,0	4,9 4,9	2R27034 2R27038
M 12x1,75 M 14x2,00	75 80	29 30	9,0 11,0	7,0 9,0	2R27050 2R27054
M 30x3,50 M 33x3,50	125 125	56 56	22,0 25,0	18,0 20,0	2R27078 2R27080
M 36x4,00 M 39x4,00	150 150	63 63	28,0 32,0	22,0 24,0	2R27082 2R27084

DIN 352

HSS-G

TOL  
6H

### UNC Juego de Machos Rosca unificada ANSI B1.1 Izquierdas



#### Roscado



**Métricas existentes**

Desde métrica  
**UNC Nr. 6 x 32 (")**  
hasta Métrica  
**UNC 1 x 8 (")**

D Ø x P(")	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
UNC Nr. 6x32 UNC Nr. 8x32	45 45	14 14	4,0 4,5	3,0 3,4	2R23006 2R23008
UNC 3/8x16 UNC 7/16x14	70 70	24 24	7,0 6,2	5,5 6,2	2R23018 2R23020
UNC 5/8x11 UNC 3/4x10	80 95	32 40	12,0 14,0	9,0 11,0	2R23034 2R23030

DIN 352

HSS-G

TOL  
2B

### UNF Juego de Machos Rosca fina unificada ANSI B1.1 Izquierdas



#### Roscado



**Métricas existentes**

Desde métrica  
**Nr. 10 x 32 (")**  
hasta Métrica  
**UNF 1 x 12 (")**

D Ø x P(")	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
UNF 5/16x24 UNF 3/8x24	56 63	22 22	6,0 7,0	4,9 5,5	2R24016 2R24018
UNF 7/16x20 UNF 1/2x20	63 75	22 24	8,0 9,0	6,2 7,0	2R24020 2R24022
UNF 9/16x18 UNF 5/8x18	80 80	28 28	11,0 12,0	9,0 9,0	2R24024 2R24026

DIN 2181

HSS-G

TOL  
2B

**BSW Juego de Machos Whitworth BS84 Izquierdas**

**Roscado**

**Métricas existentes**

 Desde métrica  
**BSW 1/8 x 40 (")**  
 hasta Métrica  
**BSW 1 x 8 (")**

D Ø x P (")	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
BSW 1/8x40	40	12	3,5	2,7	2R22006
BSW 5/32x32	45	14	4,5	3,4	2R22008
BSW 5/16x18	56	22	6,0	4,9	2R22016
BSW 3/8x16	70	24	7,0	5,5	2R22018
BSW 7/16x14	70	24	8,0	6,2	2R22020
BSW 1/2x12	75	29	9,0	7,0	2R22022
BSW 9/16x12	80	30	11,0	9,0	2R22030
BSW 5/8x11	80	32	12,0	9,0	2R22034

≈DIN 351

**HSS-G**
**G (BSP) Juego de Machos Rosca Gas DIN ISO 228 Izquierdas**

**Roscado**

**Métricas existentes**

 Desde métrica  
**G 1/8 x 28 (")**  
 hasta Métrica  
**G 2 x 11 (")**

D Ø x P (")	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
G 1/8x28	63	20	7,0	5,5	2R25012
G 1/4x19	70	22	11,0	9,0	2R25014
G 1x11	100	25	25,0	20,0	2R25026
G 1.1/8x11	125	40	28,0	22,0	2R25030
G 1.1/4x11	125	40	32,0	24,0	2R25034
G 1.3/8x11	140	40	36,0	29,0	2R25038
G 1.1/2x11	140	40	36,0	29,0	2R25042
G 1.3/4x11	140	40	40,0	32,0	2R25050

DIN 5157

**HSS-G**

# Machos

# Máquina Cortos

**M Métrica ISO-Rosca Punta Espiral (Pasante) DIN 13**

**Roscado**

**Métricas existentes**

 Desde métrica  
**3 x 0,50 (mm)**  
 hasta Métrica  
**24 x 3,00 (mm)**

D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 5x0,80	48	16	6,0	4,9	2R61534
M 6x1,00	50	19	6,0	4,9	2R61538
M 8x1,25	56	22	6,0	4,9	2R61542
M 10x1,50	70	24	7,0	5,5	2R61546
M 12x1,75	75	29	9,0	7,0	2R61550
M 14x2,00	80	30	11,0	9,0	2R61554
M 16x2,00	80	32	12,0	9,0	2R61558
M 18x2,50	95	40	14,0	11,0	2R61562

DIN 352

**HSS-CO 5%**

 FORM  
**B**

 TOL  
**6H**

### M Métrica ISO-Rosca Helicoidal 35° (CIEGO) DIN 13



#### Roscado



DIN 352

HSS-CO 5%

FORM C/35°

TOL 6H

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50 M 4x0,70	40 45	11 13	3,5 4,5	2,7 3,4	2R61726 2R61730
M 5x0,80 M 6x1,00	48 50	16 19	6,0 6,0	4,9 4,9	2R61734 2R61738
M 8x1,25 M 10x1,50	56 70	22 24	6,0 7,0	4,9 5,5	2R61742 2R61746
M 12x1,75	75	29	9,0	7,0	3R61750

### M Métrica ISO-Rosca Con diente alterno (PASANTE) DIN 13



#### Roscado



DIN 352

HSS-CO 5%

FORM B/AZ

TOL 6H

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50 M 4x0,70	40 45	11 13	3,5 4,5	2,7 3,4	2R61926 2R61930
M 5x0,80 M 6x1,00	48 50	16 19	6,0 6,0	4,9 4,9	2R61934 2R61938
M 8x1,25 M 10x1,50	56 70	22 24	6,0 7,0	4,9 5,5	2R61942 2R61946
M 12x1,75	75	29	9,0	7,0	3R61950

### M Métrica ISO-Rosca DIN 13 Forma B



#### Roscado



Métricas existentes

Desde métrica  
**M 2,0 x 0,40 (mm)**  
hasta Métrica  
**M 30,0 x 3,50 (mm)**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 2,6x0,45 M 3,0x0,50	44,5 48,0	9,5 11,0	2,90 3,15	2,24 2,50	2R80524 2R80526
M 5,0x0,80 M 6,0x1,00	58,0 66,0	16,0 19,0	5,00 6,30	4,00 5,00	2R80534 2R80538
M 12,0x1,75 M 14,0x2,00	89,0 95,0	29,0 30,0	9,00 11,20	7,10 9,00	2R80550 2R80554
M 20,0x2,50 M 22,0x2,50	112,0 118,0	37,0 38,0	14,00 16,00	11,20 12,50	3R80566 3R80570

DIN 529

HSS-G

FORM B

TOL 6H

### M Métrica ISO-Con diente alterno (PASANTE) DIN 13



#### Roscado



Métricas existentes

Desde métrica  
**M 3 x 0,50 (mm)**  
hasta Métrica  
**M 24 x 3,00 (mm)**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 5x0,80 M 6x1,00	58,0 66,0	16,0 19,0	5,00 6,30	4,00 5,00	2R80934 2R80938
M 7x1,00 M 8x1,25	66,0 72,0	19,0 22,0	7,10 8,00	5,60 6,30	2R80904 2R80942
M 10x1,50 M 12x1,75	80,0 89,0	24,0 29,0	10,00 9,00	8,00 7,10	2R80946 2R80950
M 14x2,00 M 16x2,00	95,00 102,0	30,0 32,0	11,20 12,50	9,00 10,00	3R80954 3R80958

DIN 529

HSS-G

FORM B/AZ

TOL 6H




**M Métrica ISO-Rosca DIN 13 Forma C/35° RPS**
**Roscado**

**Métricas existentes**

Desde métrica  
**M 2,0 x 0,45 (mm)**  
hasta Métrica  
**M 30,0 x 3,50 (mm)**

D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 3,0x0,50 M 4,0x0,70	48,0 53,0	11,0 13,0	3,15 4,00	2,50 3,15	2R80726 2R80730
M 8,0x1,25 M 10,0x1,50	72,0 80,0	22,0 24,0	8,00 10,00	6,30 8,00	2R80742 2R80746
M 16,0x2,00 M 18,0x2,50	102,0 110,0	32,0 37,0	12,50 14,00	10,00 11,20	2R80758 2R80762
M 24,0x3,00 M 27,0x3,00	130,0 135,0	45,0 45,0	18,00 20,00	14,00 16,00	3R80774 3R80776

**DIN 529**
**HSS-G**
**FORM  
C/35°**
**TOL  
6H**
**Mf Métrica Fina ISO-Rosca DIN 13**
**Roscado**

**Métricas existentes**

Desde métrica  
**M 6 x 0,75 (mm)**  
hasta Métrica  
**M 32 x 1,50 (mm)**

D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 9x1,00 M 10x0,75	63 63	20 20	7,0 7,0	5,5 5,5	3R66330 3R66332
M 13x1,50 M 14x1,00	70 70	22 22	11,0 11,0	9,0 9,0	3R66351 3R66353
M 20x1,50 M 20x2,00	80 80	22 22	16,0 16,0	12,0 12,0	3R66384 3R66386
M 30x1,50 M 30x2,00	90 90	22 22	22,0 22,0	18,0 18,0	3R66530 3R66532

**DIN 2181**
**HSS-G**
**FORM  
D**
**TOL  
6H**

**BSW Whitworth BS 84**
**Roscado**

**Métricas existentes**

Desde métrica  
**1/8 x 40 (")**  
hasta Métrica  
**1 x 8 (")**

D Ø x P (")	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
1/4x20 5/16x18	50 56	19 22	6,0 6,0	4,9 4,9	3R62314 3R62316
3/8x16 7/16x14	70 70	24 24	7,0 8,0	5,5 6,2	3R62318 3R62320
1/2x12 9/16x12	75 80	29 30	9,0 11,0	7,0 9,0	3R62322 3R62324
5/8x11 3/4x10	80 95	32 40	12,0 14,0	9,0 11,0	3R62326 3R62330

**DIN 351 ≈DIN 352**
**HSS-G**
**FORM  
D**

**G(BSP) Gas DIN ISO 228**
**Roscado**

**Métricas existentes**

Desde métrica  
**G 1/8 x 28 (")**  
hasta Métrica  
**G 4 x 11 (")**

D Ø x P (")	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
G 3/8x19 G 1/2x14	70 80	22 22	12 16	9,0 12,0	3R65316 3R65318
G 1.1/4x11 G 1.1/2x11	125 140	40 40	32 32	24,0 29,0	3R65334 3R65342
G 1.3/4x11 G 2x11	140 160	40 40	40 45	32,0 35,0	3R65350 3R65354
G 2.3/4x11 G 3x11	160 160	40 40	50 50	39,0 39,0	3R65366 3R65370

**DIN 5157**
**HSS-G**
**FORM  
D**

### UNC Rosca gruesa Unificada ANSI B 1.1 UNC

#### Roscado



**Métricas existentes**

Desde métrica  
**1/4 x 20 (")**  
hasta Métrica  
**1 x 8 (")**

≈DIN 352

HSS-G

FORM D

TOL 2B

D Ø x P(")	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
3/8x16 7/16x14	70 70	24 24	7,0 8,0	5,5 6,2	3R63318 3R63320
1/2x13 19/16x12	75 80	29 30	9,0 11,0	7,0 9,0	3R63322 3R63324
5/8x11 3/4x10	80 95	32 40	12,0 14,0	9,0 11,0	3R63326 3R63330

### UNF Rosca fina Unificada ANSI B 1.1 UNF

#### Roscado



**Métricas existentes**

Desde métrica  
**1/4 x 28 (")**  
hasta Métrica  
**1 x 12 (")**

≈DIN 352

HSS-G

FORM D

TOL 2B

D Ø x P(")	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
3/8x24 7/16x20	63 63	22 22	7,0 8,0	5,5 6,2	3R64318 3R64320
1/2x20 19/16x18	75 80	24 28	9,0 11,0	7,0 9,0	3R64322 3R64324
5/8x18 3/4x16	80 95	28 32	12,0 14,0	9,0 11,0	3R64326 3R64330

### NPT Rosca Americana para tubo Conicidad 1:16

#### Roscado



**Métricas existentes**

Desde métrica  
**NPT 1/16 x 27 (")**  
hasta Métrica  
**NPT 2 x 11.5 (")**

HSS-G

FORM C

D Ø x P(")	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
NPT 1/4x18 NPT 3/8x18	70 75	25 26	11,0 12,0	9,0 9,0	3R63514 3R63516
NPT 1/2x14 NPT 3/4x14	80 100	31 33	16,0 20,0	12,0 16,0	3R65318 3R65320
NPT 1x11.5 NPT 1.1/4x11.5	110 125	38 41	25,0 32,0	20,0 24,0	3R63526 3R63534

### NPT Rosca Americana para tubo Conicidad 1:16

#### Roscado



**Métricas existentes**

Desde métrica  
**NPT 1/16 x 27 (")**  
hasta Métrica  
**NPT 2 x 11.5 (")**

HSS-G

FORM B

D Ø x P(")	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
NPT 1/4x18 NPT 3/8x18	62 65	28,0 28,0	11,0 14,0	9,0 11,0	3R98514 3R98518
NPT 1/2x14 NPT 3/4x14	80 85	35,0 35,0	18,0 23,0	14,0 17,0	3R98522 3R98530
NPT 1x11.5 NPT 1.1/4x11.5	95 105	45,0 45,0	26,0 32,0	21,0 26,0	3R98538 3R98546

### NPT Rosca Americana para tubo Conicidad 1:16

#### Roscado



**Métricas existentes**

Desde métrica  
**NPT 1/16 x 27 (")**  
hasta Métrica  
**NPT 2 x 11.5 (")**

HSS-G

FORM C/35°

D Ø x P(")	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
NPT 1/4x18 NPT 3/8x18	62 65	28,0 28,0	11,0 14,0	9,0 11,0	3R98714 3R98718
NPT 1/2x14 NPT 3/4x14	80 85	35,0 35,0	18,0 23,0	14,0 17,0	3R98722 3R98730
NPT 1x11.5 NPT 1.1/4x11.5	95 105	45,0 45,0	26,0 32,0	21,0 26,0	3R98738 3R98746

# Machos

# Máquina Combinados

## M Métrica ISO-Rosca DIN 13

### Roscado


**HSS-G**


D Ø x P(mm)	D1 (mm)	L1 (mm)	Cod.
M 3x0,50 M 4x0,70	2,5 3,3	36 39	R367226 R367230
M 5x0,80 M 6x1,00	4,2 5,0	41 44	R367234 R367238
M 8x1,25 M 10x1,50	6,8 8,5	50 59	R367242 R367246

## M Métrica ISO-Rosca DIN 13

### Roscado


**HSS-G**
**TIN**


D Ø x P(mm)	D1 (mm)	L1 (mm)	Cod.
M 3x0,50 M 4x0,70	2,5 3,3	36 39	R367210 R367230
M 5x0,80 M 6x1,00	4,2 5,0	41 44	R367212 R367213
M 8x1,25 M 10x1,50	6,8 8,5	50 59	R367214 R367215

## UNC Rosca gruesa Unificada ANSI B 1.1

### Roscado


**HSS-G**


#### Métricas existentes

 Desde métrica  
**Nr. 4 x 40 (")**  
 hasta Métrica  
**3/8 x 16 (")**

D Ø x P(")	D1 (mm)	L1 (mm)	Cod.
Nr. 6x32 Nr. 5x40	2.30 2.60	36 36	R367280 R367281
Nr. 10x24 Nr. 12x24	3.90 4.50	41 41	R367284 R367285
1/4x20 5/16x18	5.20 6.60	44 50	R367286 R367287

## UNF Rosca fina Unificada ANSI B 1.1

### Roscado


**HSS-G**


#### Métricas existentes

 Desde métrica  
**Nr. 4 x 48 (")**  
 hasta Métrica  
**3/8 x 24 (")**

D Ø x P(")	D1 (mm)	L1 (mm)	Cod.
Nr. 6x40 Nr. 8x36	3.0 3.5	39 39	R367292 R367293
Nr. 10x32 Nr. 12x28	4.1 4.7	41 41	R367294 R367295
1/4x28 5/16x24	5.5 6.9	44 50	R367296 R367297

### M Métrica ISO-Rosca DIN 13



#### Roscado



HSS-CO 5%

TOL 6H

D Ø x P(mm)	L1 (mm)	L2 (mm)	D (mm)	L2 (mm)	D (mm)	∅(mm)	Cod.
M 3x0,50 M 4x0,70	56 63	16 18	11 14	2.5 3.3	3.0 4.0	2.4 3.0	R337026 R337030
M 5x0,80 M 6x1,00	71 80	20 22	18 22	4.2 5.0	5.0 6.0	3.8 4.9	R337034 R337038
M 8x1,25 M 10x1,50	95 106	26 30	25 31	6.8 8.5	8.0 10.0	6.2 8.0	R337042 R337046
M 12x1,75	115	32	35	10.2	12.0	9.0	R337050

### BSW Whitworth BS 84



#### Roscado



HSS-CO 5%

TOL 6H

D Ø x P(mm)	L1 (mm)	L2 (mm)	D (mm)	L2 (mm)	D (mm)	∅(mm)	Cod.
Nr. 4x48 Nr. 5x44	56 63	16 18	11 14	2.5 3.3	3.0 4.0	2.4 3.0	R370006 R370008
Nr. 6x40 Nr. 8x36	71 80	20 22	18 22	4.2 5.0	5.0 6.0	3.8 4.9	R370010 R370014
Nr. 10x32 Nr. 12x28	95 106	26 30	25 31	6.8 8.5	8.0 10.0	6.2 8.0	R370016 R370018
1/4x28	115	32	35	10.2	12.0	9.0	R370022

### M Métrica ISO-Rosca DIN 13



#### Roscado



Métricas existentes

Desde métrica  
**M 2,0 x 0,40 (")**  
hasta Métrica  
**M 10,0 x 1,50 (")**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 2,5x0,45 M 2,6x0,45	50 50	9 9	2,8 2,8	2,1 2,1	3R37422 3R37424
M 4,0x0,70 M 5,0x0,80	63 70	13 16	4,5 6,0	3,4 4,9	3R37430 3R37440
M 6,0x1,00 M 7,0x1,00	80 80	19 19	6,0 7,0	4,9 5,5	3R37438 3R37440

HSS-CO 5%

DIN 371

TOL 6H

FORM C

### M Métrica ISO-Rosca DIN 13



#### Roscado



Métricas existentes

Desde métrica  
**M 3,0 x 0,50 (")**  
hasta Métrica  
**M 52 x 5,00 (")**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 5x0,80 M 6x1,00	70 80	16 19	3,5 4,5	2,7 3,4	3R38434 3R38438
M 12x1,75 M 14x2,00	110 110	29 30	9,0 11,0	7,0 9,0	3R38450 3R38454
M 36x4,00 M 39x4,00	200 200	56 60	28,0 32,0	22,0 24,0	3R38482 3R38484

HSS-CO 5%

DIN 376

TOL 6H

FORM C

**M Métrica ISO-Rosca DIN 13**

**Roscado**

**Métricas existentes**

 Desde métrica  
**M 2,0 x 0,40 ("**  
 hasta Métrica  
**M 10,0 x 1,50 ("**)

D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3,0x,050 M 3,5x0,60	56 56	11 13	3,5 4,0	2,7 3,0	3R37526 3R37528
M 4,0x0,70 M 5,0x0,80	63 70	13 16	4,5 6,0	3,4 4,9	3R37530 3R37534
M 6,0x1,00 M 7,0x1,00	80 80	19 19	6,0 7,0	4,9 5,5	3R37538 3R37540

**HSS-CO 5%**
**DIN 371**
**TOL**  
6H

**FORM**  
B

**M Métrica ISO-Rosca DIN 13**

**Roscado**

**Métricas existentes**

 Desde métrica  
**M 3 x 0,50 ("**  
 hasta Métrica  
**M 52 x 5,00 ("**)

D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 12x1,75 M 14x2,00	110 110	29 30	9,0 11,0	7,0 9,0	3R38550 3R38554
M 20x2,50 M 22x2,50	140 140	34 34	16,0 18,0	12,0 14,5	3R38566 3R38570
M 36x4,00 M 39x4,00	200 200	56 60	28,0 32,0	22,0 24,0	3R38582 3R38584

**HSS-CO 5%**
**DIN 376**
**TOL**  
6H

**FORM**  
B

# Machos

# Máquina

**M Métrica ISO-Rosca DIN 13**

**Roscado**


D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50 M 4x0,70	56 63	11 13	3,5 4,5	2,7 3,4	3R31526 3R31530
M 5x0,80 M 6x1,00	70 80	16 19	6,0 6,0	4,9 4,9	3R31534 3R34538
M 8x1,25 M 10x1,50	90 100	22 24	8,0 10,0	6,2 8,0	3R31542 3R31546
M 12x1,75	110	29	9,0	7,0	3R15550

**HSS-CO 5%**
**TIN**
**DIN 371**
**TOL**  
6H

**FORM**  
B

**M Métrica ISO-Rosca DIN 13**

**Roscado**


D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50 M 4x0,70	56 63	11 13	3,5 4,5	2,7 3,4	3R31570 3R31571
M 5x0,80 M 6x1,00	70 80	16 19	6,0 6,0	4,9 4,9	3R31572 3R34573
M 8x1,25 M 10x1,50	90 100	22 24	8,0 10,0	6,2 8,0	3R31574 3R31575

**HSS-CO 5%**
**VAP**
**DIN 371**
**TOL**  
6H

**FORM**  
B

**M Métrica ISO-Rosca DIN 13**



**Roscado**



D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 12x1,75	110	29	9,0	7,0	3R31576
M 14x2,00	110	30	11,0	9,0	3R31577
M 16x2,00	110	32	12,0	9,0	3R31578
M 18x2,50	125	34	14,0	11,0	3R34579
M 20x2,50	140	34	16,0	12,0	3R31580

HSS-CO 5%

VAP

DIN 376

TOL 6H

FORM B

**M Métrica ISO-Rosca DIN 13 EXTRA-LARGOS 100 mm**



**Roscado**



D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50	100	11	3,5	2,7	3R32010
M 4x0,70	100	13	4,5	3,4	3R32011
M 5x0,80	100	16	6,0	4,9	3R32012
M 6x1,00	100	19	6,0	4,9	3R32013
M 8x1,25	100	22	8,0	6,2	3R32014
M 10x1,50	100	24	10,0	8,0	3R32015
M 12x1,75	100	29	12,0	9,0	3R32016

HSS-CO 5%

≈DIN 371

TOL 6H

FORM B

**M Métrica ISO-Rosca DIN 13 EXTRA-LARGOS 120 mm**



**Roscado**



D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 4x0,70	120	13	4,5	3,4	3R32021
M 5x0,80	120	16	6,0	4,9	3R32022
M 6x1,00	120	19	6,0	4,9	3R32023
M 8x1,25	120	22	8,0	6,2	3R32024
M 10x1,50	120	26	10,0	8,0	3R32025
M 12x1,75	120	29	12,0	9,0	3R32026

HSS-CO 5%

≈DIN 371

TOL 6H

FORM B

**M Métrica ISO-Rosca DIN 13 EXTRA-LARGOS 150 mm**



**Roscado**



D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 4x0,70	150	13	4,5	3,4	3R32031
M 5x0,80	150	16	6,0	4,9	3R32032
M 6x1,00	150	19	6,0	4,9	3R32033
M 8x1,25	150	22	8,0	6,2	3R32034
M 10x1,50	150	26	10,0	8,0	3R32035
M 12x1,75	150	29	12,0	9,0	3R32036

HSS-CO 5%

≈DIN 371

TOL 6H

FORM B

## M Métrica ISO-Rosca DIN 13 SOBREDIMENSIONADO



### Roscado



#### Métricas existentes

Desde métrica  
**M 2,5 x 0,45 (mm)**  
hasta Métrica  
**M 20,0 x 2,50 (mm)**

D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 4x0,70	63	13	4,5	3,4	3R32530
M 5x0,80	70	16	6,0	4,9	3R32534
M 6x1,00	80	19	6,0	4,9	3R32538
M 8x1,25	90	22	8,0	6,2	3R32542
M 10x1,50	100	24	10,0	8,0	3R32546
M 12x1,75	110	29	90,0	7,0	3R32550

**HSS-CO 5%** DIN 371 DIN 376 TOL 6G FORM B

## M Métrica ISO-Rosca DIN 13 SOBREDIMENSIONADO



### Roscado



D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50	56	11	3,5	2,7	3R32503
M 4x0,70	63	13	4,5	3,4	3R32504
M 5x0,80	70	16	6,0	4,9	3R32505
M 6x1,00	80	19	6,0	4,9	3R32506
M 8x1,25	90	22	8,0	6,2	3R32508
M 10x1,50	100	24	10,0	8,0	3R32510
M 12x1,75	110	29	12,0	9,0	3R32512

**HSS-CO 5%** DIN 371 DIN 376 TOL 7G FORM B

## M Métrica ISO-Rosca DIN 13 SOBREDIMENSIONADO



### Roscado



D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50	56	11	3,5	2,7	3R32583
M 4x0,70	63	13	4,5	3,4	3R32584
M 5x0,80	70	16	6,0	4,9	3R32585
M 6x1,00	80	19	6,0	4,9	3R32586
M 8x1,25	90	22	8,0	6,2	3R32588
M 10x1,50	100	24	10,0	8,0	3R32590
M 12x1,75	110	29	9,0	7,0	3R32592

**HSS-CO 5%** DIN 371 DIN 376 FORM B TOL 6H + 0,1 mm

## Mf Métrica Fina ISO-Rosca DIN 13



### Roscado



#### Métricas existentes

Desde métrica  
**M 4 x 0,35 (mm)**  
hasta Métrica  
**M 52 x 1,50 (mm)**

D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 6x0,75	80	14	4,5	3,4	3R39407
M 8x0,75	80	19	6,0	4,9	3R39410
M 22x1,00	125	25	18,0	14,5	3R39443
M 22x1,50	125	25	18,0	14,5	3R39445
M 40x1,50	170	30	32,0	24,0	3R39480
M 42x1,50	170	30	32,0	24,0	3R39483

**HSS-CO 5%** DIN 374 FORM C TOL 6H

## UN Rosca Fina Unificada ANSI B 1.1 8-UN



### Roscado



#### Métricas existentes

Desde métrica  
**UN 1.1/16 x 8 (")**  
hasta Métrica  
**UN 4 x 8 (")**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
UN 1.5/16x8	162	57	25,0	20,0	3R83105
UN 1.3/8x8	162	57	25,0	20,0	3R83106
UN 2x8	200	70	35,5	28,0	3R83111
UN 2.1/8x8	200	70	35,5	28,0	3R83112
UN 3.1/4x8	261	86	50,0	40,0	3R83118
UN 3.1/2x8	261	86	50,0	40,0	3R83119

HSS-CO 5%

ISO 529

FORM  
B

TOL  
2B

## UN Rosca Fina Unificada ANSI B 1.1 12-UN



### Roscado



#### Métricas existentes

Desde métrica  
**UN 1.5/8 x 12 (")**  
hasta Métrica  
**UN 4 x 12 (")**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
UN 1.7/8x12	187	67	31,5	25,0	3R83303
UN 2x12	200	70	35,5	28,0	3R83304
UN 2.1/2x12	224	79	40,0	31,5	3R83308
UN 2.3/4x12	234	79	45,0	35,5	3R83309
UN 3x12	258	83	50,0	40,0	3R83310
UN 3.1/4x12	261	86	50,0	40,0	3R83311

HSS-CO 5%

ISO 529

FORM  
B

TOL  
2B

## G(BSP) Rosca Gas DIN ISO 228



### Roscado



#### Métricas existentes

Desde métrica  
**G 1/8 x 28 (")**  
hasta Métrica  
**G 2 x 11 (")**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
G 3/8x19	100	22	12,0	9,0	3R78416
G 1/2x14	125	25	12,0	12,0	3R78418
G 7/8x14	150	28	22,0	18,0	3R78424
G 1x11	160	30	25,0	20,0	3R78426
G 1.3/8x11	180	32	36,0	29,0	3R78438
G 1.1/2x11	190	32	36,0	29,0	3R78442

HSS-CO 5%

DIN 5156

FORM  
C

## G(BSP) Rosca Gas DIN ISO 228



### Roscado



#### Métricas existentes

Desde métrica  
**G 1/8 x 28 (")**  
hasta Métrica  
**G 2 x 11 (")**

D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
G 3/8x19	100	22	12,0	9,0	3R78516
G 1/2x14	125	22	16,0	12,0	3R78518
G 7/8x14	150	28	22,0	18,0	3R78524
G 1x11	160	30	25,0	20,0	3R78526
G 1.3/8x11	180	32	36,0	29,0	3R78538
G 1.1/2x11	190	32	36,0	29,0	3R78542

HSS-CO 5%

DIN 5156

FORM  
B



# Machos

# Máquina Banda

## M Métrica ISO-Rosca DIN 13 BANDA VERDE



### Roscado



D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 3x0,50 M 4x0,70	56 63	11 13	3,5 4,5	2,7 3,4	3R35326 3R35330
M 5x0,80 M 6x1,00	70 80	16 19	6,0 6,0	4,9 4,9	3R35334 3R35338
M 8x1,25 M 10x1,50	90 100	22 24	8,0 10,0	6,2 8,0	3R35342 3R35346

**HSS-CO 5% DIN 371**


## M Métrica ISO-Rosca DIN 13 BANDA VERDE



### Roscado



D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 12x1,75 M 14x2,00	110 110	29 30	9,0 11,0	7,0 9,0	3R35350 3R35354
M 16x2,00 M 18x2,50	110 125	32 34	12,0 14,0	9,0 11,0	3R35358 3R35362
M 20x2,50	140	34	16,0	12,0	3R35366

**HSS-CO 5% DIN 376**


## M Métrica ISO-Rosca DIN 13 BANDA BLANCA



### Roscado



D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 3x0,50 M 4x0,70	56 63	11 13	3,5 4,5	2,7 3,4	3R35226 3R35230
M 5x0,80 M 6x1,00	70 80	16 19	6,0 6,0	4,9 4,9	3R35234 3R35238
M 8x1,25 M 10x1,50	90 100	22 24	8,0 10,0	6,2 8,0	3R35242 3R35246

**HSS-CO 5% DIN 371**


## M Métrica ISO-Rosca DIN 13 BANDA BLANCA



### Roscado



D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∠ (mm)	Cod.
M 12x1,75 M 14x2,00	110 110	29 30	9,0 11,0	7,0 9,0	3R35250 3R35254
M 16x2,00 M 18x2,50	110 125	32 34	12,0 14,0	9,0 11,0	3R35258 3R35262
M 20x2,50	140	34	16,0	12,0	3R35266

**HSS-CO 5% DIN 376**


# Machos

# Máquina por Laminación

## M Métrica ISO-Rosca DIN 13

### Roscado



D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50 M 4x0,70	56 63	11 13	3,5 4,5	2,7 3,4	3R35510 3R35512
M 5x0,80 M 6x1,00	70 80	16 19	6,0 6,0	4,9 4,9	3R35513 3R35514
M 8x1,25 M 10x1,50	90 100	22 24	8,0 10,0	6,2 8,0	3R35515 3R35516

HSS-CO 5%

DIN 371

TOL  
6HX

TOL  
ISO2X

## M Métrica ISO-Rosca DIN 13

### Roscado



D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 12x1,75 M 14x2,00	110 110	29 30	9,0 11,0	7,0 9,0	3R35517 3R35518
M 16x2,00	110	32	12,0	9,0	3R35519

HSS-CO 5%

DIN 376

TOL  
6HX

TOL  
ISO2X

## M Métrica ISO-Rosca DIN 13

### Roscado



D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50 M 4x0,70	56 63	11 13	3,5 4,5	2,7 3,4	3R35530 3R35532
M 5x0,80 M 6x1,00	70 80	16 19	6,0 6,0	4,9 4,9	3R35533 3R35534
M 8x1,25 M 10x1,50	90 100	22 24	8,0 10,0	6,2 8,0	3R35535 3R35536

HSS-CO 5%

TIN

DIN 371

TOL  
6HX

TOL  
ISO2X

## M Métrica ISO-Rosca DIN 13

### Roscado



D Ø x P(mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 12x1,75 M 14x2,00	110 110	29 30	9,0 11,0	7,0 9,0	3R35537 3R35538
M 16x2,00	110	32	12,0	9,0	3R35539

HSS-CO 5%

TIN

DIN 376

TOL  
6HX

TOL  
ISO2X

## M Métrica ISO-Rosca DIN 13

### Roscado



D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 3x0,50	56	11	3,5	2,7	3R35550
M 4x0,70	63	13	4,5	3,4	3R35552
M 5x0,80	70	16	6,0	4,9	3R35553
M 6x1,00	80	19	6,0	4,9	3R35554
M 8x1,25	90	22	8,0	6,2	3R35555
M 10x1,50	100	24	10,0	8,0	3R35556

HSS-CO 5%

VAP

DIN 371

TOL 6HX

TOL ISO2X

## M Métrica ISO-Rosca DIN 13

### Roscado



D Ø x P (mm)	L1 (mm)	L2 (mm)	D2 (mm)	∅ (mm)	Cod.
M 12x1,75	110	29	9,0	7,0	3R35557
M 14x2,00	110	30	11,0	9,0	3R35558
M 16x2,00	110	32	12,0	9,0	3R35559

HSS-CO 5%

TIN

DIN 376

TOL 6HX

TOL ISO2X

# Fresas

# Rotativas de Metal Duro

## FRESA CILÍNDRICA

### Metal



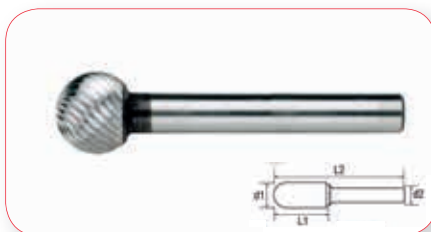
MD



TIPO	Ø d2 Mango (mm)	Ø d1 (mm)	L1 (mm)	L2 (mm)	Cod.	
					3 Cortes	6 Cortes
A	3,00	3,00	14,00	38,00	FRA3104	FRA6100
		6,35	12,70	37,00	FRA3105	FRA6101
		4,00	14,00	50,00	-	FRA6107
		6,00	18,00	50,00	FRA3102	FRA6102
		8,00	19,00	64,00	FRA3103	FRA6103
	6,00	9,60	19,00	64,00	FRA3100	FRA6104
		9,60	25,00	70,00	-	FRA6109
		12,70	19,00	64,00	-	FRA6105
		12,70	25,00	70,00	FRA3101	FRA6106

## FRESA ESFÉRICA

### Metal



MD



TIPO	Ø d2 Mango (mm)	Ø d1 (mm)	L1 (mm)	L2 (mm)	Cod.	
					3 Cortes	6 Cortes
D	3,00	3,00	2,50	38,00	-	FRD6100
		4,00	3,40	38,00	FRD3103	FRD6102
		6,35	5,00	38,00	-	FRD6101
	6,00	6,00	4,70	50,00	FRD3100	FRD6103
		8,00	6,00	52,00	-	FRD6106
		9,60	8,00	54,00	FRD3101	FRD6104
		12,70	11,00	56,00	FRD3102	FRD6105
		16,00	14,00	59,00	FRD3104	-