

Piñones y discos / engranajes / cremalleras  
Pignons et disques / engrenages / cremaillères  
*Sprockets and plate wheels / gears / racks*



ISO 9001

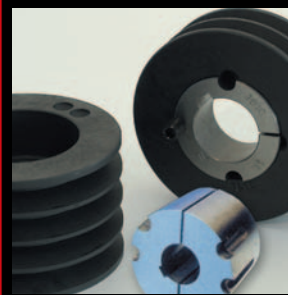




**Piñones y discos**  
 Pignons et disques  
*Sprockets and plate wheels*



**Cadenas de rodillos**  
**Cadenas de rodillos inoxidables**  
**Cadenas especiales**  
 Chaînes à rouleaux  
 Chaînes à rouleaux inoxidables  
 Chaînes spséciaux  
*Roller chains*  
*Stainless steel roller chains*  
*Special chains*



**Poleas y casquillos**  
**norma europea y americana**  
 Poulies et moyeux  
 norme européenne et américaine  
*European and american*  
*standard pulleys and taper bushes*



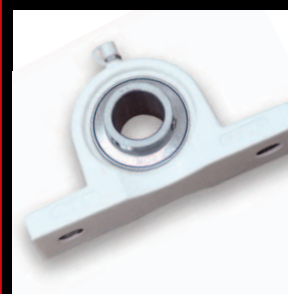
**Correas**  
 Courroies  
*Belts*



**Rodamientos y rodamientos inoxidables**  
 Roulements et roulements inoxidables  
*Bearings and stainless steel bearings*



**Soportes**  
 Paliers  
*Pillowblocks*



**Soportes de plástico**  
 Thermoplastique paliers  
*Plastic pillowblocks*



**Soportes inoxidables**  
 Supports inoxydables  
*Stainless steel pillowblocks*



**Soportes bipartidos**  
 Supports bipartites  
*Housings*



**Manguitos**  
 Manchons de serrage  
*Adapter sleeves*



**Accesorios para rodamientos**  
 Accessoires pour roulements  
*Accessories for bearings*



**Acoplamientos**  
 Accouplements  
*Couplings*

Todas las dimensiones reseñadas en este catálogo son orientativas, siendo variables en función del fabricante o país de origen. En caso de precisar dimensiones exactas rogamos nos consulten.

Toda la gama de rodamientos de la marca TransLink®, está fabricada bajo norma ISO 9001:2000.

Toutes les dimensions décrites dans ce catalogue ils peuvent être modifiées, étant des variables selon le fabricant ou le pays d'origine. En cas d'avoir besoin de la spécifications des dimensions exactes nous vous prions de nous consulter.

L'échelle entière des comportements de la marque TransLink, est faite sous la norme l'ISO 9001:2000.

*All specified sizes in this catalogue are orientative. They can change according to the manufacturer or the country of origin. In case of needing exact sizes, please contact us.*

*All the bearing range manufactured by Translink® complies with ISO 9001:2000 norms.*

**PIÑONES Y DISCOS**  
**PIGNONS ET DISQUES**  
**SPROCKETS AND PLATE WHEELS**

**NORMA EUROPEA (ISO) - NORME EUROPÉENNE (ISO) - EUROPEAN STANDARD (ISO)**

**DATOS TÉCNICOS**

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**GEARS AND RACKS**

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Todas la dimensiones reseñadas en este catálogo son orientativas, siendo variables en función del fabricante o país de origen.  
En caso de precisar dimensiones exactas o diámetros superiores rogamos nos consulten.

Toutes les dimensions mentionnées dans ce catalogue sont orientatives. Elles peuvent changer en fonction du fabricant ou du pays d'origine.  
En cas de préciser des dimensions exactes ou diamètres supérieurs, prière de nous consulter.

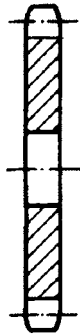
All specified dimensions in this catalogue are orientative. They can change according the manufacturer or the country of origin.  
In case of requiring exact sizes or higher diametres, please consult us.

# DATOS TÉCNICOS

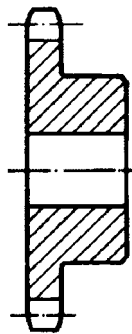
## INFORMATION TECHNIQUE

### TECHNICAL SPECIFICATIONS

Tipo A  
Type A  
Type A



Tipo B  
Type B  
Type B



#### TIPO DE RUEDAS DENTADAS

##### PUEDEN SER:

- 1.- Estampado
- 2.- Con cubo soldado

Los citados tipos son los más frecuentes; sin embargo, hay dos otros cuya forma depende de exigencias técnicas o de montaje.

#### TYPE DE ROUES DENTEES

##### PEUT ETRE:

- 1.- Embouti
- 2.- Avec moyeu soudé

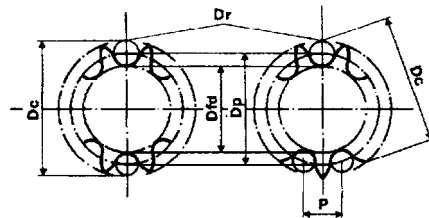
Les types indiqués cidessus sont habituellement employés; il existe cependant d'autres types dont la forme est dictée par les exigences techniques ou de montage.

#### TYPE OF TOOTHED GEAR

##### MAY BE:

- 1.- Forget
- 2.- With welded hub

The types given above are those which are most commonly used, but there are, all the same, others whose form depends on technical or assembly requirements.



#### DIMENSIONES DE LAS RUEDAS

##### NOMENCLATURA

- P:** Longitud del lado del polígono primitivo correspondiente al paso de la cadena.
- Dr:** Diámetro de los rodillos de control.
- z:** Numero de dientes.
- Dp:** Diámetro primitivo.
- Dfp:** Diámetro de la base del diente.
- Dc:** Diámetro de control

#### DIMENSIONS DES ROUES

##### NOMENCLATURE

- P:** Longueur du côté du polygone primitif correspondant au pas de la chaîne.
- Dr:** Diamètre des cylindres de référence.
- z:** Nombre de dents.
- Dp:** Diamètre primitif.
- Dfp:** Diamètre de pied de dent.
- Dc:** Diamètre de référence.

#### DIMENSIONS OF THE WHEELS

##### NOMENCLATURE

- P:** Length of the original polygon corresponding with the chain pitch.
- Dr:** Diameter of the check rollers.
- z:** Number of teeth.
- Dp:** Original diameter.
- Dfp:** Diameter at tooth base.
- Dc:** Check diameter.

#### ALTURA DEL DIENTE Y DIAMETRO EXTERNO:

##### NOMENCLATURA

- P:** Altura del diente sobre el polígono primitivo.
- De:** Diámetro externo definido por la circunferencia que pasa por la extremidad de dos dientes de la rueda.

#### HAUTEUR DE LA DENT ET DIAMETRE EXTERIEUR:

##### NOMENCLATURE

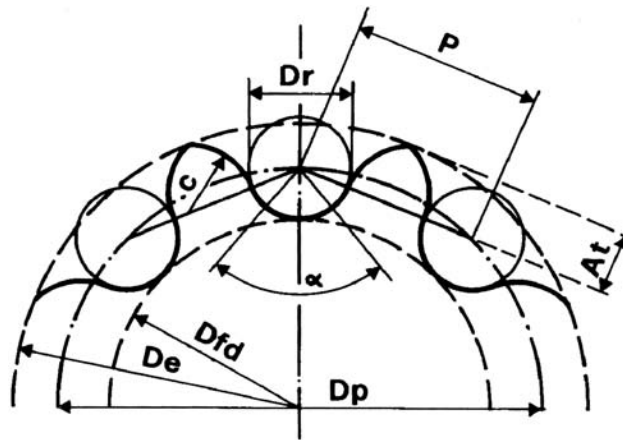
- P:** Hauteur de la dent sur le polygone primitif.
- De:** Diamètre extérieur défini à partir de la circonférence qui passe par l'extrémité des dents de la roue.

#### DEPTH OF THE TEETH AND EXTERNAL DIAMETER:

##### NOMENCLATURE

- P:** Depth of the tooth over the original polygon.
- De:** External diameter defined as the circumference measured around the ends of the gear teeth.

**DATOS TÉCNICOS**  
**INFORMATION TECHNIQUE**  
**TECHNICAL SPECIFICATIONS**



DIMENSIONES
$At \text{ max} = 0,625 p - 0,5 Dr + 0,8 p/z$
$At \text{ min} = 0,5 (p - dr)$
$De \text{ max} = Dp + 1,25 p - Dr$
$De \text{ min} = Dp + p (1 - 1,6 / z) - Dr$

DIMENSIONS
$At \text{ max} = 0,625 p - 0,5 Dr + 0,8 p/z$
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DIMENSIONS
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$At \text{ min} = 0,5 (p - dr)$
$De \text{ max} = Dp + 1,25 p - Dr$
$De \text{ min} = Dp + p (1 - 1,6 / z) - Dr$

FORMA DEL DIENTE
<b>NOMENCLATURA</b>
<b>p:</b> Paso de la cadena.
<b>Dp:</b> Diámetro primitivo.
<b>Dr:</b> Diámetro del rodillo de la cadena.
<b>rf:</b> Radio de la curva de reposo del rodillo.
<b>a:</b> Angulo de contacto del rodillo.
<b>Ru:</b> Radio de la curva de salida.
<b>z:</b> Numero de los dientes de la rueda de entrada

FORME DE LA DENT
<b>NOMENCLATURE</b>
<b>p:</b> Pas de la chaîne.
<b>Dp:</b> Diamètre primitif.
<b>Dr:</b> Diamètre sur le cylindre de la chaîne.
<b>rf:</b> Rayon de la courbe de repos du cylindre.
<b>a:</b> Angle de contact du cylindre.
<b>Ru:</b> Rayon de la courbe de sortie.
<b>z:</b> Nombre de dents de la roue dentée.

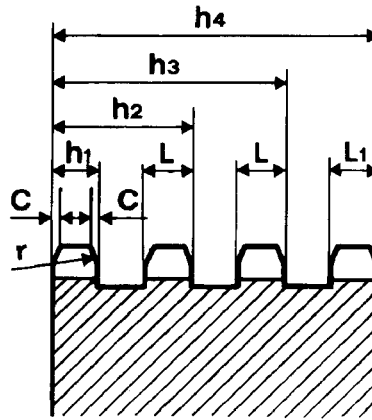
TOOTH FORM
<b>NOMENCLATURE</b>
<b>p:</b> Chain pitch.
<b>Dp:</b> Pitch diameter.
<b>Dr:</b> Diameter of chain roller.
<b>rf:</b> Radius of roller rest curve.
<b>a:</b> Contact angle of roller.
<b>Ru:</b> Radius of exit curve.
<b>z:</b> Number of teeth on the toothed gear.

DIMENSIONES
<b>PERFIL MÍNIMO</b>
<b>P:</b> 0,505 dr
<b>a:</b> 140° - 90° / z
<b>Ru:</b> 0,12 dr (z + 2)
<b>PERFIL MÁXIMO</b>
<b>rf:</b> 0,505 dr + 0,0069 $\sqrt[3]{dr}$
<b>a:</b> 120° 90° / z
<b>Ru:</b> 0,008 dr (z <sub>2</sub> + 180)

DIMENSIONS
<b>PROFIL MINIMUM</b>
<b>P:</b> 0,505 dr
<b>a:</b> 140° - 90° / z
<b>Ru:</b> 0,12 dr (z + 2)
<b>PROFIL MAXIMUM</b>
<b>rf:</b> 0,505 dr + 0,0069 $\sqrt[3]{dr}$
<b>a:</b> 120° 90° / z
<b>Ru:</b> 0,008 dr (z <sub>2</sub> + 180)

DIMENSIONS
<b>MINIUM PROFILE</b>
<b>P:</b> 0,505 dr
<b>a:</b> 140° - 90° / z
<b>Ru:</b> 0,12 dr (z + 2)
<b>MAXIMUM PROFILE</b>
<b>rf:</b> 0,505 dr + 0,0069 $\sqrt[3]{dr}$
<b>a:</b> 120° 90° / z
<b>Ru:</b> 0,008 dr (z <sub>2</sub> + 180)

**DATOS TÉCNICOS**  
**INFORMATION TECHNIQUE**  
**TECHNICAL SPECIFICATIONS**



**PERFIL TRANSVERSAL DE LA DENTADURA**

**NOMENCLATURA**

- $h^1$  Ancho del diente.
- $h^2h^3h^4$  Ancho de ruedas dobles, triples, cuadruple.
- $r$  Rayo del chaflán del diente.
- $C$  Rayo del chaflán del diente.
- $P$  Paso de la cadena.
- $TP$  Paso transversal de la cadena.
- $W$  Ancho interno de la cadena

**PROFIL TRANSVERSAL DE LA DENTURE**

**NOMENCLATURE**

- $h^1$  Larg. de la dent.
- $h^2h^3h^4$  Larg. de roues doubles, triples, quadruple.
- $r$  Rayon de la dépouille de tête.
- $C$  Largeur du rayoun de tête.
- $P$  Pas de la chaîne.
- $TP$  Pas transversal de la chaîne.
- $W$  Largeur intérieure de la chaîne.

**TRASVERSER PROFILE OF THE TOOTHONG**

**NOMENCLATURE**

- $h^1$  Tooth width.
- $h^2h^3h^4$  Width of double, triple and quadruple wheels.
- $r$  Bevel range of the tooth.
- $C$  Width of the tooth radius.
- $P$  Chain pitch.
- $TP$  Trasverse chain pitch.
- $W$  Internal width of the chain.

**DIMENSIONES**

- $h^1$  Para cadena simple.
- $L$  Para cadena doble y triple.
- $L^1$  Para cadena quádruple y superior.
- $C$  Desde un mínimo de  $0,1 p$  hasta un máximo de  $0,15 p$ .

**DIMENSIONS**

- $h^1$  Pur chaîne simple.
- $L$  Pour chaîne double et triple.
- $L^1$  Pour chaîne quádruple et plus.
- $C$  D'un minimum de  $0,1 p$  à un maximum de  $0,15 p$ .

**DIMENSIONS**

- $h^1$  For single chain.
- $L$  For double or triple chain.
- $L^1$  For quádruple or more chain.
- $C$  From a minimum of  $0,1 p$  to a maximim of  $0,15 p$ .

$p < 12.7$

- =  $0,93 W (h14)$
- =  $0,91 W (h14)$
- =  $0,88 W (h14)$

$p < 12.7$

- =  $0,95 W (h14)$
- =  $0,93 W (h14)$
- =  $0,90 W (h14)$

**NUMERO DE DIENTES**

Las citadas fórmulas se refieren a las indicadas por las normas ISO/R 608 y son válidas para ruedas dentadas para cadenas de rodillos de 9 a 150 dientes.

Las dentaduras recomendadas son:  
 13 - 15 - 17 - 19 - 21 - 23 - 25 - 38 - 57 - 76 - 95 - 114.

**NOMBRE DE DENTS**

Les formules présentées ci-dessus se réfèrent à celles indiquées par les normes ISO/R 606 et sont valables por chaînes à cylindres de 9 à 150 dents.

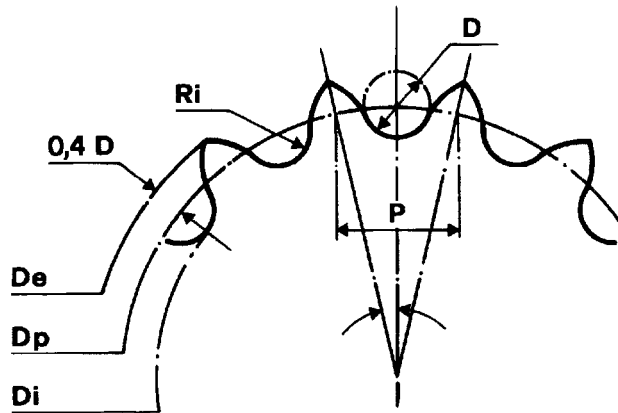
Les dentures que nous recommandons sont:  
 13 - 15 - 17 - 19 - 21 - 23 - 25 - 38 - 57 - 76 - 95 - 114.

**NUMBER OF TEETH**

The formulas given above refer to those specified in the ISO/R 606 standards and are valid for toothed gears for roler chains with from 9 to 150 teeth.

The recommended toothing are:  
 13 - 15 - 17 - 19 - 21 - 23 - 25 - 38 - 57 - 76 - 95 - 114.

**DATOS TÉCNICOS**  
**INFORMATION TECHNIQUE**  
**TECHNICAL SPECIFICATIONS**



$De: Dp + (0.8) \cdot D$

$Di: Dp - D$

$Ri: 0.54 D$

$Dp: p \cdot n$

LEYENDA
Z: N. dientes rueda.
p: Paso de la cadena.
D: Diámetro rodillo.
Ri: Rayo cavidad.
De: Diámetro externo.
Dp: Diámetro primitivo.
Di: Diámetro interno.

LEGENDE
Z: Nbre de dents roue.
p: Pas de la chaîne.
D: Diamètre rouleau.
Ri: Rayon évidement.
De: Diamètre extérieur.
Dp: Diamètre primitif.
Di: Diamètre intérieur.

LEGEND
Z: No. wheel teeth.
p: Chain pitch.
D: Roller doameter.
Ri: Notch radius.
De: External diameter.
Dp: Primary diameter.
Di: Internal diameter.

El diámetro primitivo de la rueda (Dp) se obtiene con la formula:

$Dp = p / \text{sen } 180^\circ / Z$

Si en esta fórmula se sustituye el valor "sen 180° / Z" con el valor "1/N" se hace:

$Dp = p / 1 / n$  o sea  $Dp = p \cdot n$

Le diamètre primitif de la roue (Dp) est obtenu à partir de la formula cidessous:

$Dp = p / \text{sen } 180^\circ / Z$

Si, dans cette formule, on remplace la valeur "sen 180° / Z" par la valeur "1/N" on a:

$Dp = p / 1 / n$  o sea  $Dp = p \cdot n$

The primary diameter of the wheel (Dp) is obtained with the formula:

$Dp = p / \text{sen } 180^\circ / Z$

Should you change in this formula the value of "sen 180° / Z" is replaced "1/N" you have:

$Dp = p / 1 / n$  o sea  $Dp = p \cdot n$

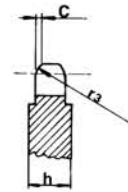
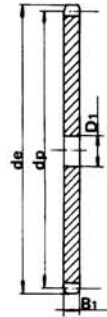
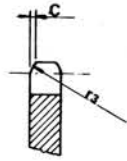
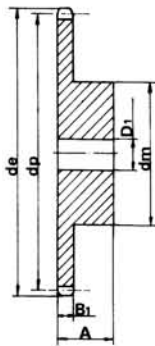
# PIÑONES Y DISCOS NORMA EUROPEA (ISO)

## PIGNONS ET DISQUES NORME EUROPÉENNE (ISO)

### EUROPEAN NORM (ISO) SPROCKETS AND PLATE WHEELS

#### 5 x 2.5 mm / 03-1

Para cadenas de rodillos conformes a la norma DIN 8187 ISO/R 606 / Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606 / For roller chains in compliance with DIN 8187 ISO/R 606



El tamaño del disco aumenta en  $h = 4$  mm a partir de Z.51  
Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606  
The wheel disc size is increased by  $h = 4$  mm starting from Z.51

#### Piñón / Pignon / Sprocket

Radio de los dientes  $r_3$  / Rayon des dents  $r_3$  / Tooth radius  $r_3$  5  
Ancho del radio C / Largeur du rayon C / Radius width C 0.6  
Ancho de los dientes B1 / Largeur des dents B1 / Sprocket tooth width B1 2.3

#### Disco / Plateau / Platewheel

Radio de los dientes  $r_3$  / Rayon des dents  $r_3$  / Tooth radius  $r_3$  5  
Ancho del radio C / Largeur du rayon C / Radius width C 0.6  
Ancho de diente B1 / Largeur des dents B1 / Plate tooth width B1 2.3

#### Cadena / Chaîne / Chain

Paso de cadena / Passage de chaîne / Pitch 5  
Ancho interior / Largeur intérieure / Internal width 2.5  
Diám. rodillo / Rouleaux - Ø / Roller - Ø 3.2

#### Cadena / Chaîne / Chain

Paso de cadena / Passage de chaîne / Pitch 5  
Ancho interior / Largeur intérieure / Internal width 2.5  
Diám. rodillo / Rouleaux - Ø / Roller - Ø 3.2

Z	de	dp	Simple / Simple / Single		
			dm	D1	A
8	15.2	13.06	7	4	10
9	16.8	14.62	8	5	10
10	18.3	16.18	9	5	10
11	19.9	17.75	11	6	10
12	21.5	19.32	12	6	10
13	23.0	20.89	14	6	10
14	24.6	22.47	15	6	10
15	26.2	24.04	16	6	10
16	27.8	25.63	18	8	13
17	29.4	27.20	18	8	13
18	30.9	28.79	18	8	13
19	32.5	30.38	18	8	13
20	34.1	31.96	18	8	13
21	35.7	33.54	20	8	13
22	37.3	35.13	20	8	13
23	38.9	36.72	20	8	13
24	40.5	38.30	20	8	13
25	42.0	39.89	20	8	13
26	43.6	41.48	25	8	15
27	45.2	43.07	25	8	15
28	46.8	44.65	25	8	15
29	48.4	46.25	25	8	15
30	50.0	47.83	25	8	15
31	51.6	49.42	30	8	15
32	53.2	51.01	30	8	15
33	54.8	52.60	30	8	15
34	56.3	54.19	30	8	15
35	57.9	55.78	30	8	15
36	59.5	57.37	30	8	15
37	61.1	58.96	30	8	15
38	62.7	60.54	30	8	15
39	64.3	62.13	30	8	15
40	65.9	63.73	30	8	15

Z	de	dp	S	Z	de	dp	S
			D1				D1
8	15.2	13.06	4	44	72.2	70.09	8
9	16.8	14.62	4	45	73.8	71.68	8
10	18.3	16.18	4	46	75.4	73.27	8
11	19.9	17.75	5	47	77.0	74.86	8
12	21.5	19.32	5	48	78.6	76.45	8
13	23.0	20.89	5	49	80.2	78.03	8
14	24.6	22.47	5	50	81.8	79.63	8
15	26.2	24.04	5	51	83.4	81.22	10
16	27.8	25.63	6	52	85.0	82.81	10
17	29.4	27.20	6	53	86.6	84.40	10
18	30.9	28.79	6	54	88.1	85.97	10
19	32.5	30.38	6	55	89.7	87.58	10
20	34.1	31.96	6	56	91.3	89.17	10
21	35.7	33.54	8	57	92.9	90.76	10
22	37.3	35.13	8	58	94.5	92.35	10
23	38.9	36.72	8	59	96.1	93.94	10
24	40.5	38.30	8	60	97.7	95.53	10
25	42.0	39.89	8	62	100.9	98.72	12
26	43.6	41.48	8	64	104.1	101.90	12
27	45.2	43.07	8	65	105.6	103.49	12
28	46.8	44.65	8	66	107.2	105.08	12
29	48.4	46.25	8	68	110.4	108.26	12
30	50.0	47.83	8	70	113.6	111.44	12
31	51.6	49.42	8	72	116.8	114.63	12
32	53.2	51.01	8	75	121.6	119.40	12
33	54.8	52.60	8	76	123.1	120.99	12
34	56.3	54.19	8	78	126.3	124.17	12
35	57.9	55.78	8	80	129.5	127.35	12
36	59.5	57.37	8	85	137.5	135.31	14
37	61.1	58.96	8	90	145.4	143.27	14
38	62.7	60.54	8	95	153.4	151.22	14
39	64.3	62.13	8	100	161.3	159.18	14
40	65.9	63.73	8	110	177.2	175.09	14
41	67.5	65.31	8	114	183.6	181.46	14
42	69.1	66.91	8	120	193.2	191.01	14
43	70.6	68.49	8	125	201.1	198.96	14

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

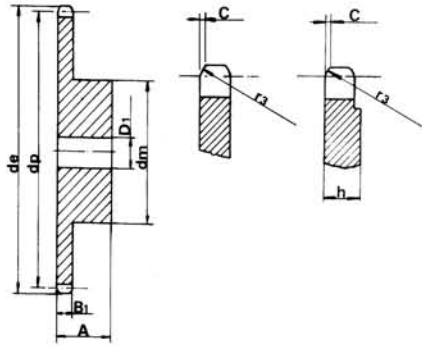
# PIÑONES Y DISCOS NORMA EUROPEA (ISO)

## PIGNONS ET DISQUES NORME EUROPÉENNE (ISO)

### EUROPEAN NORM (ISO) SPROCKETS AND PLATE WHEELS

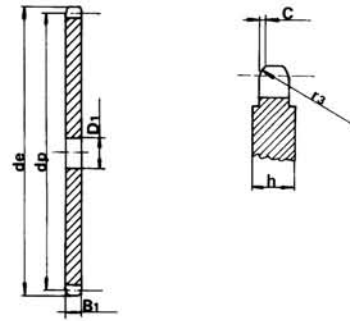
#### 6 x 2.8 mm / 04-1

Para cadenas de rodillos conformes a la norma DIN 8187 ISO/R 606 / Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606 / For roller chains in compliance with DIN 8187 ISO/R 606



El tamaño del disco aumenta en h = 4 mm para Z.57 y Z.76  
La taille du disque est augmentée de h = 4 mm pour Z.57 et Z.76  
The disc size is increased by h = 4mm for Z.57 and Z.76

**Piñón / Pignon / Sprocket** mm  
**Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3** 6  
**Ancho del radio C / Largeur du rayon C / Radius width C** 0.7  
**Ancho de los dientes B1 / Largeur des dents B1 / Sprocket tooth width B1** 2.6



El tamaño del disco aumenta en h = 4 mm a partir de Z.51  
La taille du disque est augmentée de h = 4 mm en partant de Z.51  
The wheel disc size is increased by h = 4mm starting from Z.51

**Disco / Plateau / Platewheel** mm  
**Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3** 6  
**Ancho del radio C / Largeur du rayon C / Radius width C** 0.7  
**Ancho de diente B1 / Largeur des dents B1 / Plate tooth width B1** 2.6

**Cadena / Chaîne / Chain** mm  
**Paso de cadena / Passage de chaîne / Pitch** 6  
**Ancho interior / Largeur intérieure / Internal width** 2.8  
**Diám. rodillo / Rouleaux - Ø / Roller - Ø** 4

**Cadena / Chaîne / Chain** mm  
**Paso de cadena / Passage de chaîne / Pitch** 6  
**Ancho interior / Largeur intérieure / Internal width** 2.8  
**Diám. rodillo / Rouleaux - Ø / Roller - Ø** 4

Z	de	dp	Simple / Simple / Single		
			dm	D1	A
8	18.0	15.67	9.8	5	10
9	19.9	17.54	11.5	5	10
10	21.7	19.42	13	6	10
11	23.6	21.30	14	6	10
12	25.4	23.18	16	6	10
13	27.3	25.05	18	8	10
14	29.2	26.96	20	8	10
15	31.0	28.86	20	8	10
16	33.0	30.76	20	8	13
17	35.0	32.65	20	8	13
18	36.9	34.55	20	8	13
19	38.8	36.44	20	8	13
20	40.7	38.34	20	8	13
21	42.6	40.25	25	8	13
22	44.5	42.16	25	8	13
23	46.4	44.06	25	8	13
24	48.3	45.96	25	8	13
25	50.2	47.87	25	8	13
26	52.1	49.76	30	8	15
27	54.0	51.67	30	8	15
28	55.9	53.58	30	8	15
29	57.8	55.50	30	8	15
30	59.8	57.42	30	8	15
31	61.7	59.31	30	8	15
32	63.6	61.21	30	8	15
33	65.5	63.11	30	8	15
34	67.4	65.02	30	8	15
35	69.3	66.93	30	8	15
36	71.2	68.84	30	8	15
37	73.1	70.75	30	8	15
38	75.0	72.66	30	8	15
39	76.9	74.57	30	8	15
40	78.9	76.47	30	8	15
45	88.5	86.01	40	10	16
50	98.0	95.55	50	12	20
57	111.4	108.93	50	12	20
76	147.6	145.19	60	12	20

Z	de	dp	S		Z	de	dp	S	
			D1					D1	
8	18.0	15.67	5		44	86.6	84.10	10	
9	19.9	17.54	5		45	88.5	86.01	10	
10	21.7	19.42	6		46	90.4	87.92	10	
11	23.6	21.30	6		47	92.3	89.93	10	
12	25.4	23.18	6		48	94.2	91.74	10	
13	27.3	25.05	8		49	96.1	93.64	10	
14	29.2	26.96	8		50	98.0	95.55	10	
15	31.0	28.86	8		51	99.9	97.46	12	
16	33.0	30.76	8		52	101.8	99.37	12	
17	35.0	32.65	8		53	103.7	101.27	12	
18	36.9	34.55	8		54	105.6	103.17	12	
19	38.8	36.44	8		55	107.6	105.08	12	
20	40.7	38.34	8		56	109.5	107.00	12	
21	42.6	40.25	8		57	111.4	108.93	12	
22	44.5	42.16	8		58	113.3	110.82	12	
23	46.4	44.06	8		59	115.2	112.71	12	
24	48.3	45.96	8		60	117.1	114.62	12	
25	50.2	47.87	8		62	120.9	118.45	14	
26	52.1	49.76	8		64	124.7	122.27	14	
27	54.0	51.67	8		65	126.6	124.18	14	
28	55.9	53.58	8		66	128.5	126.09	14	
29	57.8	55.50	8		68	132.4	129.91	14	
30	59.8	57.42	8		70	136.2	133.73	14	
31	61.7	59.31	8		72	140.0	137.55	16	
32	63.6	61.21	8		75	145.7	143.28	16	
33	65.5	63.11	8		76	147.6	145.19	16	
34	67.4	65.02	8		78	151.5	149.01	16	
35	69.3	66.93	8		80	155.3	152.82	16	
36	71.2	68.84	8		85	164.8	162.37	16	
37	73.1	70.75	8		90	174.4	171.92	16	
38	75.0	72.66	8		95	183.9	181.47	16	
39	76.9	74.57	8		100	193.5	191.01	16	
40	78.9	76.47	8		110	212.6	210.11	16	
41	80.8	78.38	10		114	220.2	217.75	16	
42	82.7	80.28	10		120	231.7	229.20	16	
43	84.7	82.19	10		125	241.2	238.75	16	

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

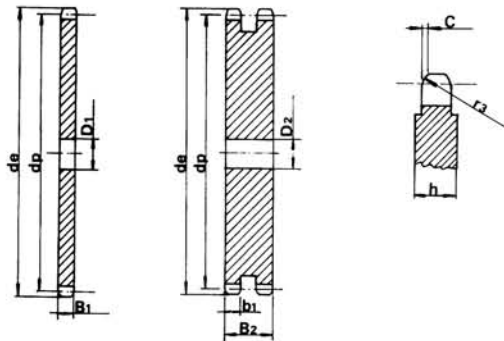
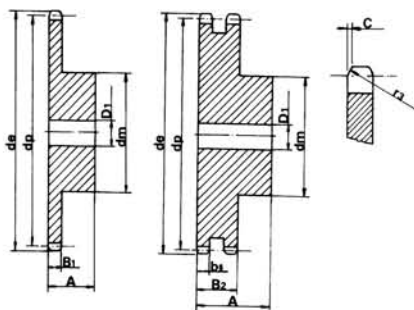
# PIÑONES Y DISCOS NORMA EUROPEA (ISO)

## PIGNONS ET DISQUES NORME EUROPÉENNE (ISO)

### EUROPEAN NORM (ISO) SPROCKETS AND PLATE WHEELS

#### 8 x 3 mm / 05B-1-2

Para cadenas de rodillos conformes a la norma DIN 8187 ISO/R 606 / Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606 /  
For roller chains in compliance with DIN 8187 ISO/R 606



El tamaño del disco aumenta en  $h = 4$  mm a partir de Z.51 y Z.76  
La taille du disque est augmentée de  $h = 4$  mm en partant de Z.57 et Z.76  
The wheel disc size is increased by  $h = 4$ mm starting from Z.57 and Z.76

El tamaño del disco aumenta en  $h = 4$  mm a partir de Z.46  
La taille du disque est augmentée de  $h = 4$  mm en partant de Z.46  
The wheel disc size is increased by  $h = 4$ mm starting from Z.46

#### Piñón / Pignon / Sprocket

mm

- Radio de los dientes  $r_3$  / Rayon des dents  $r_3$  / Tooth radius  $r_3$  8
- Ancho del radio C / Largeur du rayon C / Radius width C 1.0
- Ancho de los dientes B1 / Largeur des dents B1 / Sprocket tooth width B1 2.8
- Ancho de los dientes b1 / Largeur des dents b1 / Sprocket tooth width b1 2.7
- Ancho de los dientes B2 / Largeur des dents B2 / Sprocket tooth width B2 8.3

#### Disco / Plateau / Platewheel

mm

- Radio de los dientes  $r_3$  / Rayon des dents  $r_3$  / Tooth radius  $r_3$  8
- Ancho del radio C / Largeur du rayon C / Radius width C 1.0
- Ancho de diente B1 / Largeur des dents B1 / Plate tooth width B1 2.8
- Ancho de diente b1 / Largeur des dents b1 / Plate tooth width b1 2.7
- Ancho de diente B2 / Largeur des dents B2 / Plate tooth width B2 8.3

#### Cadena / Chaîne / Chain

mm

- Paso de cadena / Passage de chaîne / Pitch 8
- Ancho interior / Largeur intérieure / Internal width 3
- Diám. rodillo / Rouleaux - Ø / Roller - Ø 5

#### Cadena / Chaîne / Chain

mm

- Paso de cadena / Passage de chaîne / Pitch 8
- Ancho interior / Largeur intérieure / Internal width 3
- Diám. rodillo / Rouleaux - Ø / Roller - Ø 5

Z	de	dp	Simple / Simple / Single			Doble / Double / Double		
			dm	D1	A	dm	D1	A
8	24.0	20.90	13	6	12	12	8	18
9	26.6	23.39	15	6	12	15	8	18
10	29.2	25.89	17	8	12	17	8	18
11	31.7	28.39	18	8	13	19	10	18
12	34.2	30.91	20	8	13	21	10	18
13	36.7	33.42	23	8	13	24	10	18
14	39.2	35.95	25	8	13	26	10	18
15	41.7	38.48	28	8	13	29	10	18
16	44.3	41.01	30	8	14	32	10	20
17	46.8	43.53	30	8	14	34	10	20
18	49.3	46.07	30	8	14	37	10	20
19	51.9	48.61	30	8	14	39	10	20
20	54.4	51.14	30	8	14	40	10	20
21	57.0	53.68	35	8	14	40	10	20
22	59.5	56.21	35	8	14	40	10	20
23	62.0	58.75	35	8	14	40	10	20
24	64.6	61.29	35	8	14	40	10	20
25	67.5	63.83	35	8	14	40	10	20
28	69.5	66.37	40	10	16	50	12	22
27	72.2	68.91	40	10	16	50	12	22
28	74.8	71.45	40	10	16	50	12	22
29	77.3	73.99	40	10	16	50	12	22
30	79.8	76.53	40	10	16	50	12	22
31	82.4	79.08	40	10	16	60	12	22
32	84.9	81.61	40	10	16	60	12	22
33	87.5	84.16	40	10	16	60	12	22
34	90.0	86.70	40	10	16	60	12	22
35	92.5	89.25	40	10	16	60	12	22
36	95.0	91.79	40	10	16	60	12	22
37	97.6	94.33	40	10	16	60	12	22
38	100.2	96.88	40	10	16	60	12	22
39	102.7	99.42	40	10	16	60	12	22
40	105.3	101.97	40	10	16	60	12	22
45	118.0	114.69	60	12	20			
50	130.7	127.41	60	12	20			
57	148.6	145.22	80	14	20			
76	197.7	193.59	80	20	25			

Z	de	dp	S		Z	de	dp	S		D
			D1	D2				D1	D2	
8	24.0	20.90	6	6	44	115.5	112.14	12	14	
9	26.6	23.39	6	6	45	118.0	114.69	12	14	
10	29.2	25.89	8	8	46	120.6	117.23	12	14	
11	31.7	28.39	8	8	47	123.1	119.77	12	14	
12	34.2	30.91	8	8	48	125.6	122.32	12	14	
13	36.7	33.42	8	8	49	128.2	124.86	12	14	
14	39.2	35.95	8	8	50	130.7	127.41	12	14	
15	41.7	38.48	8	8	51	133.3	129.95	14	16	
16	44.3	41.01	8	10	52	135.8	132.49	14	16	
17	46.8	43.53	8	10	53	138.4	135.04	14	16	
18	49.3	46.07	8	10	54	140.9	137.59	14	16	
19	51.9	48.61	8	10	55	143.5	140.13	14	16	
20	54.4	51.14	8	10	56	146.0	142.68	14	16	
21	57.0	53.68	8	10	57	148.6	145.22	14	16	
22	59.5	56.21	8	10	58	151.0	147.77	14	16	
23	62.0	58.75	8	10	59	153.6	150.31	14	16	
24	64.6	61.29	8	10	60	156.2	152.85	14	16	
25	67.5	63.83	8	10	62	162.0	157.95	16	20	
26	69.5	66.37	10	12	64	167.1	163.04	16	20	
27	72.2	68.91	10	12	65	169.6	165.58	16	20	
28	74.8	71.45	10	12	66	172.2	168.13	16	20	
29	77.3	73.99	10	12	68	177.3	173.22	16	20	
30	79.8	76.53	10	12	70	182.4	178.31	16	20	
31	82.4	79.08	10	12	72	187.5	183.41	20	20	
32	84.9	81.61	10	12	75	195.1	191.04	20	20	
33	87.5	84.16	10	12	76	197.7	193.59	20	20	
34	90.0	86.70	10	12	78	202.8	198.68	20	20	
35	92.5	89.25	10	12	80	207.9	203.77	20	20	
36	95.0	91.79	10	12	85	220.6	216.50	20	20	
37	97.6	94.33	10	12	90	233.4	229.23	20	20	
38	100.2	96.88	10	12	95	246.1	241.96	20	20	
39	102.7	99.42	10	12	100	258.9	254.68	20	20	
40	105.3	101.97	10	12	110	284.3	280.15	20	20	
41	107.8	104.51	12	14	114	294.5	290.33	20	20	
42	110.4	107.05	12	14	120	310.0	305.61	20	20	
43	112.9	109.60	12	14	125	322.5	318.34	20	20	

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

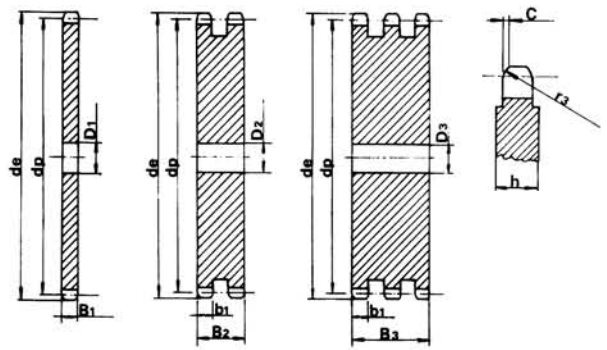
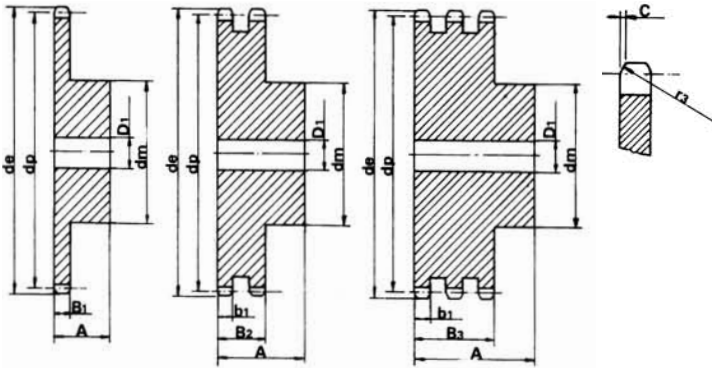
# PIÑONES Y DISCOS NORMA EUROPEA (ISO)

## PIGNONS ET DISQUES NORME EUROPÉENNE (ISO)

### EUROPEAN NORM (ISO) SPROCKETS AND PLATE WHEELS

#### 3/8" x 7/32" / 06B-1-2-3

Para cadenas de rodillos conformes a la norma DIN 8187 ISO/R 606 / Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606 / For roller chains in compliance with DIN 8187 ISO/R 606



El tamaño del disco simple aumenta en  $h = 7$  mm a partir de Z.100  
La taille du simple disque est augmentée de  $h = 7$  mm en partant de Z.100  
The single wheel disc size is increased by  $h = 7$ mm starting from Z.100

#### Piñón / Pignon / Sprocket

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	10
Ancho del radio C / Largeur du rayon C / Radius width C	1
Ancho de los dientes B1 / Largeur des dents B1 / Sprocket tooth width B1	5.3
Ancho de los dientes b1 / Largeur des dents b1 / Sprocket tooth width b1	5.2
Ancho de los dientes B2 / Largeur des dents B2 / Sprocket tooth width B2	15.4
Ancho de los dientes B3 / Largeur des dents B3 / Sprocket tooth width B3	25.6

#### Disco / Plateau / Platewheel

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	10
Ancho del radio C / Largeur du rayon C / Radius width C	1
Ancho de diente B1 / Largeur des dents B1 / Plate tooth width B1	5.3
Ancho de diente b1 / Largeur des dents b1 / Plate tooth width b1	5.2
Ancho de diente B2 / Largeur des dents B2 / Plate tooth width B2	15.4
Ancho de diente B3 / Largeur des dents B3 / Plate tooth width B3	25.6

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch	9.525
Ancho interior / Largeur intérieure / Internal width	5.72
Diám. rodillo / Rouleaux - Ø / Roller - Ø	6.35

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch	9.525
Ancho interior / Largeur intérieure / Internal width	5.72
Diám. rodillo / Rouleaux - Ø / Roller - Ø	6.35

Z	de	dp	Simple / Simple / Single			Doble / Double / Double			Triple / Triple / Triple		
			dm	D1	A	dm	D1	A	dm	D1	A
8	28.0	24.89	15	6	22	15	6	22	15	6	32
9	31.0	27.85	18	8	22	18	8	22	18	8	32
10	34.0	30.82	20	8	22	20	8	22	20	10	32
11	37.0	33.80	22	8	25	22	10	25	22	10	35
12	40.0	36.80	25	8	25	25	10	25	25	10	35
13	43.0	39.79	28	10	25	28	10	25	28	10	35
14	46.3	42.80	31	10	25	31	10	25	31	12	35
15	49.3	45.81	34	10	25	34	10	25	34	12	35
16	52.3	48.82	37	10	28	37	12	30	37	12	35
17	55.3	51.83	40	10	28	40	12	30	40	12	35
18	58.3	54.85	43	10	28	43	12	30	43	12	35
19	61.3	57.87	45	10	28	46	12	30	46	12	35
20	64.3	60.89	46	10	28	49	12	30	49	12	35
21	68.0	63.91	48	12	28	52	12	30	52	14	40
22	71.0	66.93	50	12	28	55	12	30	55	14	40
23	73.5	69.95	52	12	28	58	12	30	58	14	40
24	77.0	72.97	54	12	28	61	12	30	61	14	40
25	80.0	76.00	57	12	28	64	12	30	64	14	40
26	83.0	79.02	60	12	28	67	12	30	67	14	40
27	86.0	82.05	60	12	28	70	12	30	70	14	40
28	89.0	85.07	60	12	28	73	12	30	73	14	40
29	92.0	88.09	60	12	28	76	12	30	76	14	40
30	94.7	91.12	60	12	30	79	12	30	79	14	40
31	98.3	94.15	65	14	30	80	16	30	80	16	40
32	101.3	97.17	65	14	30	80	16	30	80	16	40
33	104.3	100.20	65	14	30	80	16	30	80	16	40
34	107.3	103.23	65	14	30	80	16	30	85	16	40
35	110.4	106.26	65	14	30	80	16	30	85	16	40
36	113.4	109.29	70	16	30	90	16	30	90	16	40
37	116.4	112.32	70	16	30	90	16	30	90	16	40
38	119.5	115.35	70	16	30	90	16	30	90	16	40
39	122.5	118.37	70	16	30	90	16	30	90	16	40
40	125.5	121.40	70	16	30	90	16	30	90	16	40

Z	de	dp	S	D	T	Z	de	dp	S	D	T
			D1	D2	D3				D1	D2	D3
8	28.0	24.89	6	6	6	44	137.6	133.52	16	16	16
9	31.0	27.85	7	8	8	45	140.7	136.55	16	16	16
10	34.0	30.82	7	8	10	46	143.7	139.58	16	16	16
11	37.0	33.80	8	10	10	47	146.7	142.61	16	16	16
12	40.0	36.80	8	10	10	48	149.7	145.64	16	16	16
13	43.0	39.79	8	10	10	49	152.7	148.66	16	16	16
14	46.3	42.80	8	10	12	50	155.7	151.69	16	16	16
15	49.3	45.81	8	10	12	51	158.7	154.72	16	16	20
16	52.3	48.82	10	12	12	52	161.8	157.75	16	16	20
17	55.3	51.83	10	12	12	53	164.8	160.78	16	16	20
18	58.3	54.85	10	12	12	54	167.8	163.82	16	16	20
19	61.3	57.87	10	12	12	55	170.8	166.85	16	16	20
20	64.3	60.89	10	12	12	56	173.8	169.88	16	16	20
21	68.0	63.91	10	12	14	57	176.9	172.91	16	16	20
22	71.0	66.93	10	12	14	58	179.9	175.93	16	16	20
23	73.5	69.95	10	12	14	59	183.0	178.96	16	16	20
24	77.0	72.97	10	12	14	60	186.0	181.99	16	16	20
25	80.0	76.00	10	12	14	62	192.1	188.06	20	20	20
26	83.0	79.02	10	12	14	64	198.2	194.12	20	20	20
27	86.0	82.05	10	12	14	65	201.6	197.15	20	20	20
28	89.0	85.07	10	12	14	66	204.6	200.18	20	20	25
29	92.0	88.09	10	12	14	68	210.7	206.24	20	20	25
30	94.7	91.12	10	12	14	70	216.7	212.3	20	20	25
31	98.3	94.15	12	14	16	72	222.8	218.37	20	20	25
32	101.3	97.17	12	14	16	75	231.9	227.46	20	20	25
33	104.3	100.20	12	14	16	76	234.9	230.49	20	20	25
34	107.3	103.23	12	14	16	78	241.0	236.55	20	20	25
35	110.4	106.26	12	14	16	80	247.1	242.61	20	20	25
36	113.4	109.29	12	14	16	85	262.2	257.77	20	20	25
37	116.4	112.32	12	14	16	90	277.4	272.93	20	20	25
38	119.5	115.35	12	14	16	95	292.5	288.08	20	20	25
39	122.5	118.37	12	14	16	100	307.7	303.25	20	20	25
40	125.5	121.40	12	14	16	110	338.0	333.55	20	20	25
41	128.5	124.43	16	16	16	114	349.5	345.68	20	20	25
42	131.6	127.46	16	16	16	120	368.3	363.86	20	20	25
43	134.6	130.49	16	16	16	125	383.5	379.02	20	20	25

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

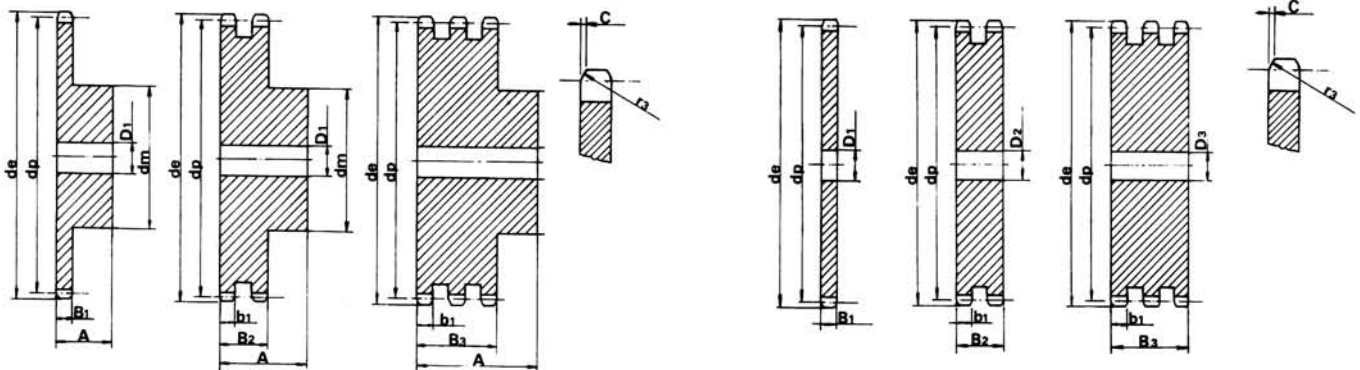
# PIÑONES Y DISCOS NORMA EUROPEA (ISO)

## PIGNONS ET DISQUES NORME EUROPÉENNE (ISO)

### EUROPEAN NORM (ISO) SPROCKETS AND PLATE WHEELS

#### 1/2" x 5/16" / 08B-1-2-3

Para cadenas de rodillos conformes a la norma DIN 8187 ISO/R 606 / Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606 / For roller chains in compliance with DIN 8187 ISO/R 606



#### Piñón / Pignon / Sprocket

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	13
Ancho del radio C / Largeur du rayon C / Radius width C	1.3
Ancho de los dientes B1 / Largeur des dents B1 / Sprocket tooth width B1	7.2
Ancho de los dientes b1 / Largeur des dents b1 / Sprocket tooth width b1	7
Ancho de los dientes B2 / Largeur des dents B2 / Sprocket tooth width B2	12
Ancho de los dientes B3 / Largeur des dents B3 / Sprocket tooth width B3	34.9

#### Disco / Plateau / Platewheel

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	13
Ancho del radio C / Largeur du rayon C / Radius width C	1.3
Ancho de diente B1 / Largeur des dents B1 / Plate tooth width B1	7.2
Ancho de diente b1 / Largeur des dents b1 / Plate tooth width b1	7
Ancho de diente B2 / Largeur des dents B2 / Plate tooth width B2	21
Ancho de diente B3 / Largeur des dents B3 / Plate tooth width B3	34.9

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch	12.7
Ancho interior / Largeur intérieure / Internal width	7.75
Diám. rodillo / Rouleaux - Ø / Roller - Ø	8.51

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch	12.7
Ancho interior / Largeur intérieure / Internal width	7.75
Diám. rodillo / Rouleaux - Ø / Roller - Ø	8.51

Z	de	dp	Simple / Simple / Single			Doble / Double / Double			Triple / Triple / Triple		
			dm	D1	A	dm	D1	A	dm	D1	A
8	37.2	33.18	20	10	25	20	10	32	20	10	46
9	41.0	37.13	24	10	25	24	10	32	24	12	46
10	45.2	41.10	26	10	25	28	10	32	28	12	46
11	48.7	45.07	29	10	25	32	12	35	32	14	50
12	53.0	49.07	33	10	28	35	12	35	35	14	50
13	57.4	53.06	37	10	28	38	12	35	38	14	50
14	61.8	57.07	41	10	28	42	12	35	42	14	50
15	65.5	61.09	45	10	28	46	12	35	46	14	50
16	69.5	65.10	50	12	28	50	14	35	50	16	50
17	73.6	69.11	52	12	28	54	14	35	54	16	50
18	77.8	73.14	56	12	28	58	14	35	58	16	50
19	81.7	77.16	60	12	28	62	14	35	62	16	50
20	85.8	81.19	64	12	28	66	14	35	66	16	50
21	89.7	85.22	68	12	28	70	16	40	70	20	55
22	93.8	89.24	70	12	28	70	16	40	70	20	55
23	98.2	93.27	70	14	28	70	16	40	70	20	55
24	101.8	97.29	70	14	28	75	16	40	75	20	55
25	105.8	101.33	70	14	28	80	16	40	80	20	55
26	110.0	105.36	70	16	30	85	20	40	85	20	55
27	114.0	109.40	70	16	30	85	20	40	85	20	55
28	118.0	113.42	70	16	30	90	20	40	90	20	55
29	122.0	117.46	80	16	30	95	20	40	95	20	55
30	126.1	121.50	80	16	30	100	20	40	100	20	55
31	130.2	125.54	90	16	30	100	20	40	110	20	55
32	134.3	129.56	90	16	30	100	20	40	110	20	55
33	138.4	133.60	90	16	30	100	20	40	110	20	55
34	142.6	137.64	90	16	30	100	20	40	110	20	55
35	146.7	141.68	90	16	30	100	20	40	110	20	55
36	151.0	145.72	90	16	35	110	20	40	120	25	55
37	154.6	149.76	90	16	35	110	20	40	120	25	55
38	158.6	153.80	90	16	35	110	20	40	120	25	55
39	162.7	157.83	90	16	35	110	20	40	120	25	55
40	166.8	161.87	90	16	35	110	20	40	120	25	55

Z	de	dp	S D T			Z	de	dp	S D T		
			D1	D2	D3				D1	D2	D3
8	37.2	33.18	8	10	10	44	183.8	178.03	20	20	25
9	41.0	37.13	8	10	12	45	188.0	182.07	20	20	25
10	45.2	41.10	8	10	12	46	192.1	186.10	20	20	25
11	48.7	45.07	10	12	14	47	198.2	190.14	20	20	25
12	53.0	49.07	10	12	14	48	200.3	194.18	20	20	25
13	57.4	53.06	10	12	14	49	204.3	198.22	20	20	25
14	61.8	57.07	10	12	14	50	208.3	202.26	20	20	25
15	65.5	61.09	10	12	14	51	212.1	206.30	20	25	25
16	69.5	65.10	10	14	16	52	216.1	210.34	20	25	25
17	73.6	69.11	10	14	16	53	220.2	214.37	20	25	25
18	77.8	73.14	10	14	16	54	224.1	218.43	20	25	25
19	81.7	77.16	10	14	16	55	228.1	222.46	20	25	25
20	85.8	81.19	10	14	16	56	232.2	226.50	20	25	25
21	89.7	85.22	12	16	20	57	236.4	230.54	20	25	25
22	93.8	89.24	12	16	20	58	240.5	234.58	20	25	25
23	98.2	93.27	12	16	20	59	244.5	238.62	20	25	25
24	101.8	97.29	12	16	20	60	248.6	242.66	20	25	25
25	105.8	101.33	12	16	20	62	256.9	250.75	25	25	25
26	110.0	105.36	16	16	20	64	265.1	258.82	25	25	25
27	114.0	109.40	16	16	20	65	269.0	262.86	25	25	25
28	118.0	113.42	16	16	20	66	273.0	266.90	25	25	25
29	122.0	117.46	16	16	20	68	281.0	274.99	25	25	25
30	126.1	121.50	16	16	20	70	289.0	283.07	25	25	25
31	130.2	125.54	16	16	20	72	297.2	291.16	25	25	25
32	134.3	129.56	16	16	20	75	309.2	303.27	25	25	25
33	138.4	133.60	16	16	20	76	313.3	307.33	25	25	25
34	142.6	137.64	16	16	20	78	321.4	315.40	25	25	25
35	146.7	141.68	16	16	20	80	329.4	323.48	25	25	25
36	151.0	145.72	16	20	25	85	349.0	343.70	25	25	25
37	154.6	149.76	16	20	25	90	369.9	363.90	25	25	25
38	158.6	153.80	16	20	25	95	390.1	384.11	25	25	25
39	162.7	157.83	16	20	25	100	410.3	404.32	25	25	25
40	166.8	161.87	16	20	25	110	450.7	444.74	25	25	25
41	171.4	165.91	20	20	25	114	466.9	460.90	25	25	25
42	175.4	169.95	20	20	25	120	491.2	485.16	25	25	25
43	179.7	173.99	20	20	25	125	511.3	505.37	25	25	25

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

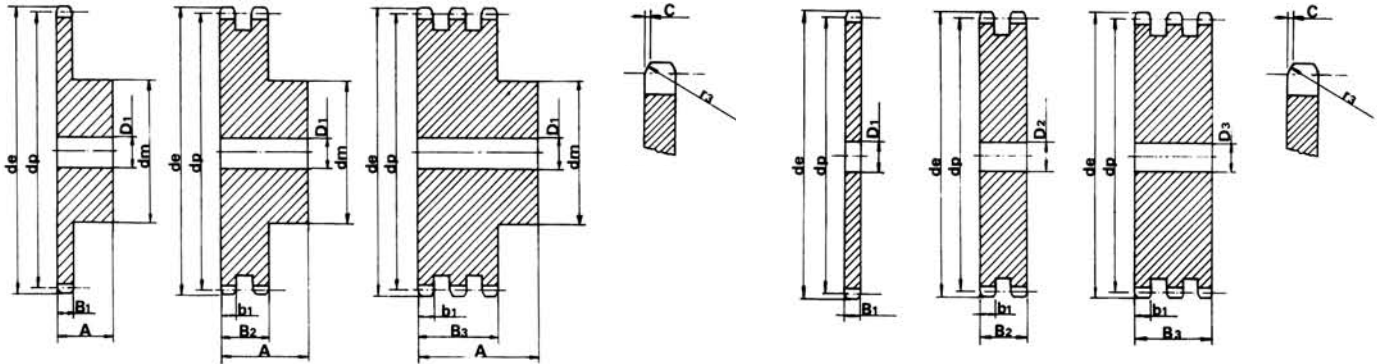
# PIÑONES Y DISCOS NORMA EUROPEA (ISO)

## PIGNONS ET DISQUES NORME EUROPÉENNE (ISO)

### EUROPEAN NORM (ISO) SPROCKETS AND PLATE WHEELS

#### 5/8" x 3/8" / 10B-1-2-3

Para cadenas de rodillos conformes a la norma DIN 8187 ISO/R 606 / Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606 / For roller chains in compliance with DIN 8187 ISO/R 606



#### Piñón / Pignon / Sprocket

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	16
Ancho del radio C / Largeur du rayon C / Radius width C	1.6
Ancho de los dientes B1 / Largeur des dents B1 / Sprocket tooth width B1	9.1
Ancho de los dientes b1 / Largeur des dents b1 / Sprocket tooth width b1	9
Ancho de los dientes B2 / Largeur des dents B2 / Sprocket tooth width B2	25.5
Ancho de los dientes B3 / Largeur des dents B3 / Sprocket tooth width B3	42.1

#### Disco / Plateau / Platewheel

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	16
Ancho del radio C / Largeur du rayon C / Radius width C	1.6
Ancho de diente B1 / Largeur des dents B1 / Plate tooth width B1	9.1
Ancho de diente b1 / Largeur des dents b1 / Plate tooth width b1	9
Ancho de diente B2 / Largeur des dents B2 / Plate tooth width B2	25.5
Ancho de diente B3 / Largeur des dents B3 / Plate tooth width B3	42.1

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch	15.875
Ancho interior / Largeur intérieure / Internal width	9.65
Diám. rodillo / Rouleaux - Ø / Roller - Ø	10.16

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch	15.875
Ancho interior / Largeur intérieure / Internal width	9.65
Diám. rodillo / Rouleaux - Ø / Roller - Ø	10.16

Z	de	dp	Simple / Simple / Single			Doble / Double / Double			Triple / Triple / Triple		
			dm	D1	A	dm	D1	A	dm	D1	A
8	47.0	41.48	25	10	25	25	12	40	25	12	55
9	52.6	46.42	30	10	25	30	12	40	30	12	55
10	57.5	51.37	35	10	25	35	12	40	35	16	55
11	63.0	56.34	37	12	30	39	14	40	39	16	55
12	68.0	61.34	42	12	30	44	14	40	44	16	55
13	73.0	66.32	47	12	30	49	14	40	49	16	55
14	78.0	71.34	52	12	30	54	14	40	54	16	55
15	83.0	76.36	57	12	30	59	14	40	59	16	55
16	88.0	81.37	60	12	30	64	16	45	64	16	60
17	93.0	86.39	60	12	30	69	16	45	69	16	60
18	98.3	91.42	70	14	30	74	16	45	74	16	60
19	103.3	96.45	70	14	30	79	16	45	79	16	60
20	108.4	101.49	75	14	30	84	16	45	84	16	60
21	113.4	106.52	75	16	30	85	16	45	85	20	60
22	118.0	111.55	80	16	30	90	16	45	90	20	60
23	123.4	116.58	80	16	30	95	16	45	95	20	60
24	128.3	121.62	80	16	30	100	16	45	100	20	60
25	134.0	126.66	80	16	30	105	16	45	105	20	60
26	139.0	131.70	85	20	35	110	20	45	110	20	60
27	144.0	136.75	85	20	35	110	20	45	110	20	60
28	148.7	141.78	90	20	35	115	20	45	115	20	60
29	153.8	146.83	90	20	35	115	20	45	115	20	60
30	158.8	151.87	90	20	35	120	20	45	120	20	60
31	163.9	156.92	95	20	35	120	20	45	120	20	60
32	168.9	161.95	95	20	35	120	20	45	120	20	60
33	174.5	167.00	95	20	35	120	20	45	120	20	60
34	179.0	172.05	95	20	35	120	20	45	120	20	60
35	184.1	177.10	95	20	35	120	20	45	120	20	60
36	189.1	182.15	100	20	35	120	20	45	120	25	60
37	194.2	187.20	100	20	35	120	20	45	120	25	60
38	199.2	192.24	100	20	35	120	20	45	120	25	60
39	204.2	197.29	100	20	35	120	20	45	120	25	60
40	209.3	202.34	100	20	35	120	20	45	120	25	60

Z	de	dp	S	D	T	Z	de	dp	S	D	T
			D1	D2	D3				D1	D2	D3
8	47.0	41.48	10	12	12	44	230.0	222.53	20	20	25
9	52.6	46.42	10	12	12	45	235.0	227.58	20	20	25
10	57.5	51.37	10	12	16	46	240.1	232.63	20	25	25
11	63.0	56.34	10	14	16	47	245.1	237.68	20	25	25
12	68.0	61.34	10	14	16	48	250.2	242.73	20	25	25
13	73.0	66.32	10	14	16	49	255.2	247.78	20	25	25
14	78.0	71.34	10	14	16	50	260.3	252.82	20	25	25
15	83.0	76.36	10	14	16	51	265.3	257.87	20	25	25
16	88.0	81.37	12	16	16	52	270.4	262.92	20	25	25
17	93.0	86.38	12	16	16	53	275.4	267.97	20	25	25
18	98.3	91.42	12	16	16	54	280.5	273.03	20	25	25
19	103.3	96.45	12	16	16	55	285.5	278.08	20	25	25
20	108.4	101.49	12	16	16	56	290.6	283.13	25	25	25
21	113.4	106.52	12	16	20	57	296.0	288.18	25	25	25
22	118.0	111.55	12	16	20	58	300.7	293.23	25	25	25
23	123.5	116.58	12	16	20	59	305.7	298.27	25	25	25
24	128.3	121.62	12	16	20	60	310.8	303.32	25	25	25
25	134.0	126.66	12	16	20	62	321.4	313.43	25	25	30
26	139.0	131.70	16	16	20	64	331.5	323.53	25	25	30
27	144.0	136.75	16	16	20	65	336.5	328.58	25	25	30
28	148.7	141.78	16	16	20	66	341.6	333.63	25	25	30
29	153.8	146.83	16	16	20	68	351.7	343.74	25	25	30
30	158.8	151.87	16	16	20	70	361.8	353.84	25	25	30
31	163.9	156.92	16	20	20	72	371.9	363.95	25	25	30
32	168.9	161.95	16	20	20	75	387.1	379.09	25	25	30
33	174.5	167.00	16	20	20	76	392.1	384.16	25	25	30
34	179.0	172.05	16	20	20	78	402.2	394.25	25	25	30
35	184.1	177.10	16	20	20	80	412.3	404.35	25	30	30
36	189.1	182.15	20	20	25	85	437.6	429.62	30	30	30
37	194.2	187.20	20	20	25	90	462.8	454.88	30	30	30
38	199.2	192.24	20	20	25	95	488.5	480.14	30	30	30
39	204.2	197.29	20	20	25	100	513.4	505.39	30	30	30
40	209.3	202.34	20	20	25	110	563.9	555.92	30	30	30
41	214.8	207.39	20	20	25	114	584.1	576.13	30	30	30
42	219.9	212.44	20	20	25	120	614.4	606.45	30	30	30
43	224.9	217.49	20	20	25	125	639.7	631.51	30	30	30

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

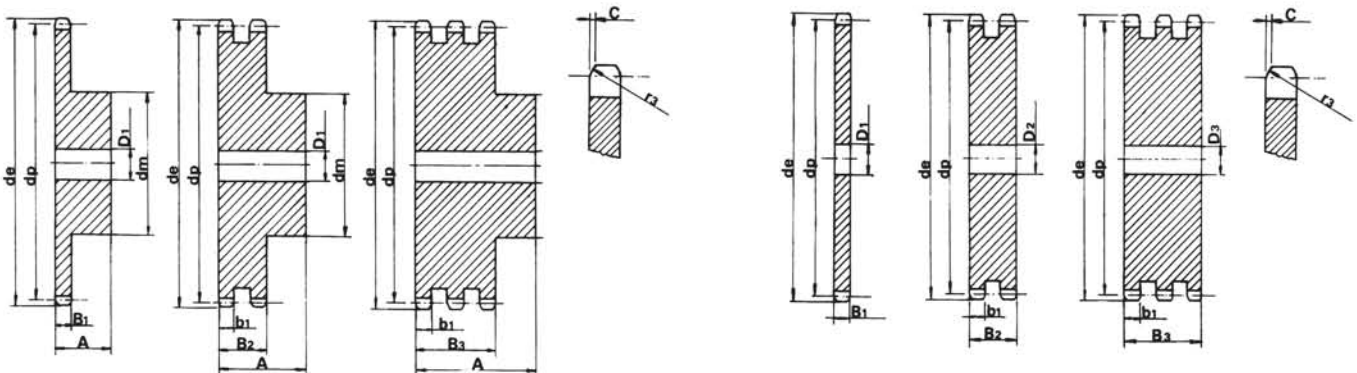
# PIÑONES Y DISCOS NORMA EUROPEA (ISO)

## PIGNONS ET DISQUES NORME EUROPÉENNE (ISO)

### EUROPEAN NORM (ISO) SPROCKETS AND PLATE WHEELS

#### 3/4" x 7/16" / 12B-1-2-3

Para cadenas de rodillos conformes a la norma DIN 8187 ISO/R 606 / Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606 / For roller chains in compliance with DIN 8187 ISO/R 606



#### Piñón / Pignon / Sprocket

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	19
Ancho del radio C / Largeur du rayon C / Radius width C	2
Ancho de los dientes B1 / Largeur des dents B1 / Sprocket tooth width B1	11.1
Ancho de los dientes b1 / Largeur des dents b1 / Sprocket tooth width b1	10.8
Ancho de los dientes B2 / Largeur des dents B2 / Sprocket tooth width B2	30.3
Ancho de los dientes B3 / Largeur des dents B3 / Sprocket tooth width B3	49.8

#### Disco / Plateau / Platewheel

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	19
Ancho del radio C / Largeur du rayon C / Radius width C	2
Ancho de diente B1 / Largeur des dents B1 / Plate tooth width B1	11.1
Ancho de diente b1 / Largeur des dents b1 / Plate tooth width b1	10.8
Ancho de diente B2 / Largeur des dents B2 / Plate tooth width B2	30.3
Ancho de diente B3 / Largeur des dents B3 / Plate tooth width B3	49.8

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch	19.05
Ancho interior / Largeur intérieure / Internal width	11.68
Diám. rodillo / Rouleaux - Ø / Roller - Ø	12.07

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch	19.05
Ancho interior / Largeur intérieure / Internal width	11.68
Diám. rodillo / Rouleaux - Ø / Roller - Ø	12.07

Z	de	dp	Simple / Simple / Single			Doble / Double / Double			Triple / Triple / Triple		
			dm	D1	A	dm	D1	A	dm	D1	A
8	57.6	49.78	31	12	30	31	12	45	31	16	65
9	62.0	55.70	37	12	30	37	12	45	37	16	65
10	69.0	61.64	42	12	30	42	12	45	42	16	65
11	75.0	67.61	46	14	35	47	16	50	47	20	70
12	81.5	73.61	52	14	35	53	16	50	53	20	70
13	87.5	79.59	58	14	35	59	16	50	59	20	70
14	93.6	85.61	64	14	35	65	16	50	65	20	70
15	99.8	91.63	70	14	35	71	16	50	71	20	70
16	105.5	97.65	75	16	35	77	20	50	77	20	70
17	111.5	103.67	80	16	35	83	20	50	83	20	70
18	118.0	109.71	80	16	35	89	20	50	89	20	70
19	124.2	115.75	80	16	35	95	20	50	95	20	70
20	129.7	121.78	80	16	35	100	20	50	100	20	70
21	136.0	127.82	90	20	40	100	20	50	100	20	70
22	141.8	133.86	90	20	40	100	20	50	100	20	70
23	149.0	139.9	90	20	40	110	20	50	110	20	70
24	153.9	145.94	90	20	40	110	20	50	110	20	70
25	160.0	152.00	90	20	40	120	20	50	120	20	70
26	165.9	158.04	95	20	40	120	20	50	120	20	70
27	172.3	164.09	95	20	40	120	20	50	120	20	70
28	178.0	170.13	95	20	40	120	20	50	120	20	70
29	184.1	176.19	95	20	40	120	20	50	120	20	70
30	190.5	182.25	95	20	40	120	20	50	120	20	70
31	196.3	188.31	100	20	40	130	20	50	130	25	70
32	203.3	194.35	100	20	40	130	20	50	130	25	70
33	209.3	200.40	100	20	40	130	20	50	130	25	70
34	214.6	206.46	100	20	40	130	20	50	130	25	70
35	221.0	212.52	100	20	40	130	20	50	130	25	70
36	226.8	218.58	100	20	40	130	25	50	130	25	70
37	232.9	224.64	100	20	40	130	25	50	130	25	70
38	239.0	230.69	100	20	40	130	25	50	130	25	70
39	245.1	236.75	100	20	40	130	25	50	130	25	70
40	251.3	242.81	100	20	40	130	25	50	130	25	70

Z	de	dp	S	D	T	Z	de	dp	S	D	T
			D1	D2	D3				D1	D2	D3
8	57.6	49.78	12	12	16	44	276.5	267.04	25	25	25
9	62.0	55.70	12	12	16	45	282.5	273.10	25	25	25
10	69.0	61.64	12	12	16	46	287.9	279.16	25	25	25
11	75.0	67.61	14	16	20	47	294.0	285.21	25	25	25
12	81.5	73.61	14	16	20	48	300.1	291.27	25	25	25
13	87.5	79.59	14	16	20	49	306.2	297.33	25	25	25
14	93.6	85.61	14	16	20	50	312.3	303.39	25	25	25
15	99.8	91.63	14	16	20	51	318.4	309.45	25	25	25
16	105.5	97.65	14	20	20	52	324.5	315.50	25	25	25
17	111.5	103.67	14	20	20	53	330.5	321.56	25	25	25
18	118.0	109.71	14	20	20	54	336.6	327.64	25	25	25
19	124.2	115.75	14	20	20	55	342.7	333.70	25	25	25
20	129.7	121.78	14	20	20	56	348.7	339.75	25	25	30
21	136.0	127.82	16	20	20	57	355.4	345.81	25	25	30
22	141.8	133.86	16	20	20	58	361.5	351.87	25	25	30
23	149.0	139.9	16	20	20	59	367.5	357.93	25	25	30
24	153.9	145.94	16	20	20	60	373.0	363.99	25	25	30
25	160.0	152.00	16	20	20	62	385.1	376.12	25	30	30
26	165.9	158.04	16	20	20	64	397.2	388.24	25	30	30
27	172.3	164.09	16	20	20	65	403.2	394.29	25	30	30
28	178.0	170.13	16	20	20	66	409.3	400.35	30	30	30
29	184.1	176.19	16	20	20	68	421.4	412.49	30	30	30
30	190.5	182.25	16	20	20	70	433.6	424.60	30	30	30
31	196.3	188.31	20	20	25	72	447.0	436.74	30	30	30
32	203.3	194.35	20	20	25	75	463.9	454.91	30	30	30
33	209.3	200.40	20	20	25	76	469.9	460.99	30	30	30
34	214.6	206.46	20	20	25	78	482.1	473.10	30	30	30
35	221.0	212.52	20	20	25	80	494.2	485.22	30	30	30
36	226.8	218.58	20	25	25	85	524.5	515.55	30	30	30
37	232.9	224.64	20	25	25	90	554.8	545.86	30	30	30
38	239.0	230.69	20	25	25	95	585.1	576.17	30	30	30
39	245.1	236.75	20	25	25	100	615.4	606.47	30	30	30
40	251.3	242.81	20	25	25	110	676.1	667.11	30	30	30
41	257.3	248.87	25	25	25	114	700.6	691.36	30	30	30
42	264.5	254.93	25	25	25	120	736.7	727.74	30	30	30
43	270.5	260.98	25	25	25	125	767.0	758.05	30	30	30

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

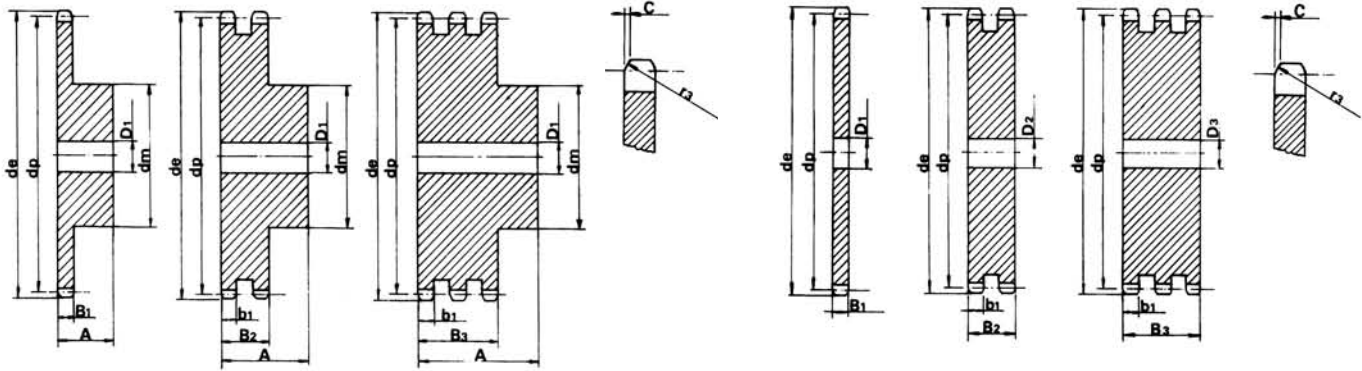
# PIÑONES Y DISCOS NORMA EUROPEA (ISO)

## PIGNONS ET DISQUES NORME EUROPÉENNE (ISO)

### EUROPEAN NORM (ISO) SPROCKETS AND PLATE WHEELS

#### 1" x 17.02 mm 16B-1-2-3

Para cadenas de rodillos conformes a la norma DIN 8187 ISO/R 606 / Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606 / For roller chains in compliance with DIN 8187 ISO/R 606



#### Piñón / Pignon / Sprocket

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	26
Ancho del radio C / Largeur du rayon C / Radius width C	2.5
Ancho de los dientes B1 / Largeur des dents B1 / Sprocket tooth width B1	16.2
Ancho de los dientes b1 / Largeur des dents b1 / Sprocket tooth width b1	15.8
Ancho de los dientes B2 / Largeur des dents B2 / Sprocket tooth width B2	47.7
Ancho de los dientes B3 / Largeur des dents B3 / Sprocket tooth width B3	79.6

#### Disco / Plateau / Platewheel

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	26
Ancho del radio C / Largeur du rayon C / Radius width C	2.5
Ancho de diente B1 / Largeur des dents B1 / Plate tooth width B1	16.2
Ancho de diente b1 / Largeur des dents b1 / Plate tooth width b1	15.8
Ancho de diente B2 / Largeur des dents B2 / Plate tooth width B2	47.7
Ancho de diente B3 / Largeur des dents B3 / Plate tooth width B3	79.6

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch	25.4
Ancho interior / Largeur intérieure / Internal width	17.02
Diám. rodillo / Rouleaux - Ø / Roller - Ø	15.88

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch	25.4
Ancho interior / Largeur intérieure / Internal width	17.02
Diám. rodillo / Rouleaux - Ø / Roller - Ø	15.88

Z	de	dp	Simple / Simple / Single			Doble / Double / Double			Triple / Triple / Triple		
			dm	D1	A	dm	D1	A	dm	D1	A
8	77.0	66.37	42	16	35	42	16	65	42	20	95
9	85.0	74.27	50	16	35	50	16	65	50	20	95
10	93.0	82.19	55	16	35	56	16	65	56	20	95
11	99.5	90.14	61	16	40	64	20	70	64	25	100
12	109.0	98.14	69	16	40	72	20	70	72	25	100
13	117.0	106.12	78	16	40	80	20	70	80	25	100
14	125.0	114.15	84	16	40	88	20	70	88	25	100
15	133.0	122.17	92	16	40	96	20	70	96	25	100
16	141.0	130.20	100	20	45	104	20	70	104	30	100
17	149.0	138.22	100	20	45	112	20	70	112	30	100
18	157.0	146.28	100	20	45	120	20	70	120	30	100
19	165.2	154.33	100	20	45	128	20	70	128	30	100
20	173.2	162.38	100	20	45	130	20	70	130	30	100
21	181.2	170.43	110	20	50	130	25	70	*130	30	100
22	189.3	178.48	110	20	50	*130	25	70	*130	30	100
23	197.5	186.53	110	20	50	*130	25	70	*130	30	100
24	205.5	194.59	110	20	50	*130	25	70	*130	30	100
25	213.5	202.66	110	20	50	*130	25	70	*130	30	100
26	221.6	210.72	120	20	50	*130	25	70	*130	30	100
27	229.6	218.79	120	20	50	*130	25	70	*130	30	100
28	237.7	226.85	120	20	50	*130	25	70	*130	30	100
29	245.8	234.92	120	20	50	*130	25	70	*130	30	100
30	254.0	243.00	120	20	50	*130	25	70	*130	30	100
31	262.0	251.08	*120	25	50	*140	25	70	*140	30	100
32	270.0	259.13	*120	25	50	*140	25	70	*140	30	100
33	278.5	267.21	*120	25	50	*140	25	70	*140	30	100
34	287.0	275.28	*120	25	50	*140	25	70	*140	30	100
35	296.2	283.36	*120	25	50	*140	25	70	*140	30	100
36	304.6	291.44	*120	25	50	*140	25	70	*140	30	100
37	312.6	299.51	*120	25	50	*140	25	70	*140	30	100
38	320.7	307.59	*120	25	50	*140	25	70	*140	30	100
39	328.8	315.67	*120	25	50	*140	25	70	*140	30	100
40	336.9	323.75	*120	25	50	*140	25	70	*140	30	100

Z	de	dp	S	D	T	Z	de	dp	S	D	T
			D1	D2	D3				D1	D2	D3
8	77.0	66.37	14	16	20	44	369.1	356.06	25	25	30
9	85.0	74.27	14	16	20	45	377.1	364.13	25	25	30
10	93.0	82.19	15	16	20	46	385.2	372.21	25	30	30
11	99.5	90.14	15	20	25	47	393.2	380.29	25		
12	109.0	98.14	15	20	25	48	401.3	388.36	25	30	30
13	117.0	106.12	15	20	25	49	409.3	396.44	25		
14	125.0	114.15	15	20	25	50	417.4	404.52	25	30	30
15	133.0	122.17	15	20	25	51	425.5	412.60	30	30	40
16	141.0	130.20	19	20	30	52	433.6	420.67	30	30	40
17	149.0	138.22	19	20	30	53	441.7	428.75	30		
18	157.0	146.28	19	20	30	54	448.3	436.85	30		
19	165.2	154.33	19	20	30	55	457.9	444.93	30	30	40
20	173.2	162.38	19	20	30	56	466.0	453.01	30	30	
21	181.2	170.43	20	25	30	57	474.0	461.07	30	30	40
22	189.3	178.48	20	25	30	58	482.1	469.16	30		
23	197.5	186.53	20	25	30	59	490.2	477.24	30		
24	205.5	194.59	20	25	30	60	498.3	485.32	30	30	40
25	213.5	202.66	20	25	30	62	514.5	501.50	30	30	
26	221.6	210.72	20	25	30	64	530.7	517.65	30		
27	229.6	218.79	20	25	30	65	538.8	525.73	30	30	40
28	237.7	226.85	20	25	30	66	546.8	533.80	30		
29	245.8	234.92	20	25	30	68	562.9	549.98	30	30	40
30	254.0	243.00	20	25	30	70	579.2	566.14	30	30	40
31	262.0	251.08	25	25	30	72	595.4	582.32	30	30	40
32	270.0	259.13	25	25	30	75	619.7	606.55	30	30	40
33	278.5	267.21	25	25	30	76	627.0	614.65	30	30	40
34	287.0	275.28	25	25	30	78	643.3	630.80	30		
35	296.2	283.36	25	25	30	80	660.0	646.96	30	30	40
36	304.6	291.44	25	25	30	85	699.9	687.40	30	30	40
37	312.6	299.51	25	25	30	90	740.3	727.81	30	30	40
38	320.7	307.59	25	25	30	95	781.1	768.22	30	30	40
39	328.8	315.67	25	25	30	100	821.1	808.63	30	30	40
40	336.9	323.75	25	25	30	110	902.0	889.48	30	30	40
41	345.0	331.82	25			114	934.3	921.81	30	40	40
42	353.0	339.90	25	25	30	120	982.8	970.33	30	40	40
43	361.1	347.98	25	25	30	125	1023.2	1010.73	30	40	40

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

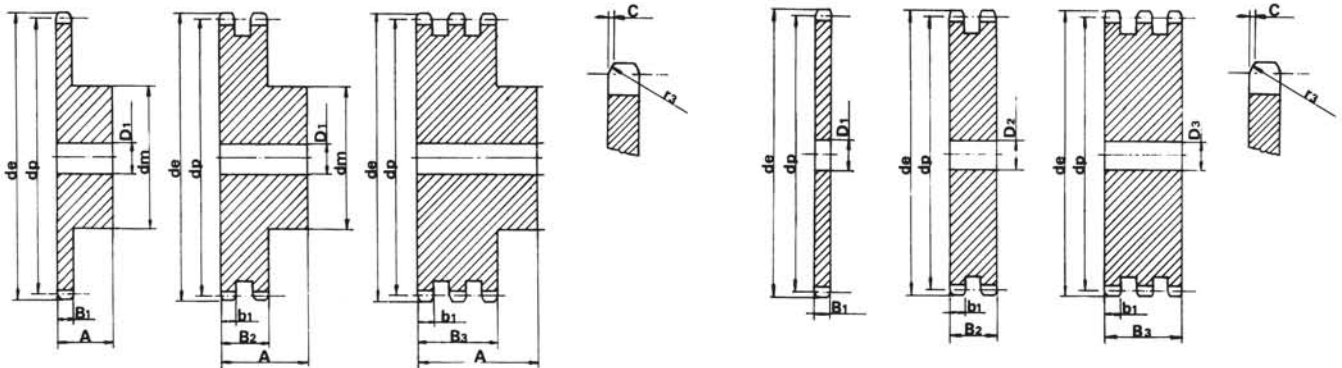
# PIÑONES Y DISCOS NORMA EUROPEA (ISO)

## PIGNONS ET DISQUES NORME EUROPÉENNE (ISO)

### EUROPEAN NORM (ISO) SPROCKETS AND PLATE WHEELS

#### 1" 1/4 x 3/4" / 20B-1-2-3

Para cadenas de rodillos conformes a la norma DIN 8187 ISO/R 606 / Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606 / For roller chains in compliance with DIN 8187 ISO/R 606



#### Piñón / Pignon / Sprocket

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	32
Ancho del radio C / Largeur du rayon C / Radius width C	3.5
Ancho de los dientes B1 / Largeur des dents B1 / Sprocket tooth width B1	18.5
Ancho de los dientes b1 / Largeur des dents b1 / Sprocket tooth width b1	18.2
Ancho de los dientes B2 / Largeur des dents B2 / Sprocket tooth width B2	54.6
Ancho de los dientes B3 / Largeur des dents B3 / Sprocket tooth width B3	91

#### Cadena / Chaîne / Chain

Paso de cadena / Passage de chaîne / Pitch	31.75
Ancho interior / Largeur intérieure / Internal width	19.56
Diám. rodillo / Rouleaux - Ø / Roller - Ø	19.05

#### Disco / Plateau / Platewheel

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3	32
Ancho del radio C / Largeur du rayon C / Radius width C	3.5
Ancho de diente B1 / Largeur des dents B1 / Plate tooth width B1	18.5
Ancho de diente b1 / Largeur des dents b1 / Plate tooth width b1	18.2
Ancho de diente B2 / Largeur des dents B2 / Plate tooth width B2	54.6
Ancho de diente B3 / Largeur des dents B3 / Plate tooth width B3	91

#### Cadena / Chaîne / Chain

Paso de cadena / Passage de chaîne / Pitch	31.75
Ancho interior / Largeur intérieure / Internal width	19.56
Diám. rodillo / Rouleaux - Ø / Roller - Ø	19.05

Z	de	dp	Simple / Simple / Single			Doble / Double / Double			Triple / Triple / Triple		
			dm	D1	A	dm	D1	A	dm	D1	A
8	98.1	82.96	53	20	40	53	20	75	53	20	110
9	108.0	92.84	63	20	40	63	20	75	63	20	110
10	117.9	102.74	70	20	40	70	20	75	70	20	110
11	127.8	112.68	77	20	45	80	20	80	80	20	115
12	137.8	122.68	88	20	45	90	20	80	90	20	115
13	147.8	132.65	98	20	45	100	20	80	100	20	115
14	157.8	142.68	108	20	45	110	20	80	110	20	115
15	167.9	152.72	118	20	45	120	20	80	120	20	115
16	177.9	162.75	120	25	50	120	25	80	120	25	115
17	187.9	172.78	120	25	50	120	25	80	120	25	115
18	198.0	182.85	120	25	50	*120	25	80	*120	25	115
19	208.1	192.91	120	25	50	*120	25	80	*120	25	115
20	218.1	202.98	120	25	50	*120	25	80	*120	25	115
21	228.2	213.04	140	25	55	*140	25	80	*140	25	115
22	238.3	223.11	140	25	55	*140	25	80	*140	25	115
23	248.3	233.17	140	25	55	*140	25	80	*140	25	115
24	258.4	243.23	140	25	55	*140	25	80	*140	25	115
25	268.5	253.33	140	25	55	*140	25	80	*140	25	115
26	278.6	263.40	*150	25	55	*150	25	80	*150	25	115
27	288.6	273.49	*150	25	55	*150	25	80	*150	25	115
28	298.7	283.56	*150	25	55	*150	25	80	*150	25	115
29	308.8	293.65	*150	25	55	*150	25	80	*150	25	115
30	318.9	303.75	*150	25	55	*150	25	80	*150	25	115
31	329.0	313.85	*160	25	55	*150	25	80	*150	30	115
32	339.1	323.91	*160	25	55	*150	25	80	*150	30	115
33	349.2	334.01	*160	25	55	*150	25	80	*150	30	115
34	359.3	344.10	*160	25	55	*150	25	80	*150	30	115
35	369.4	354.20	*160	25	55	*150	25	80	*150	30	115
36	379.5	364.30	*160	25	55	*150	30	80	*150	30	115
37	389.5	374.39	*160	25	55	*150	30	80	*150	30	115
38	399.6	384.49	*160	25	55	*150	30	80	*150	30	115
39	409.7	394.59	*160	25	55	*150	30	80	*150	30	115
40	419.8	404.69	*160	25	55	*150	30	80	*150	30	115

Z	de	dp	S	D	T	Z	de	dp	S	D	T
			D1	D2	D3				D1	D2	D3
8	98.1	82.96	16	20	20	43	450.1	434.97	30		
9	108.0	92.84	16	20	20	44	460.2	445.07	30		
10	117.9	102.74	16	20	20	45	470.3	455.17	30	30	40
11	127.8	112.68	16	20	20	46	480.4	465.26	30	30	40
12	137.8	122.68	20	20	20	47	490.5	475.36	30		
13	147.8	132.65	20	20	20	48	500.6	485.46	30	30	40
14	157.8	142.68	20	20	20	49	510.7	495.55	30		
15	167.9	152.72	20	20	20	50	520.8	505.65	30	30	40
16	177.9	162.75	25	25	25	51	530.9	515.75	30		
17	187.9	172.78	25	25	25	52	541.0	525.84	30	30	40
18	198.0	182.85	25	25	25	53	551.1	535.94	30		
19	208.1	192.91	25	25	25	54	561.2	546.07	30		
20	218.1	202.98	25	25	25	55	571.3	556.16	30	30	40
21	228.2	213.04	25	25	25	56	581.4	566.26	30		
22	238.3	223.11	25	25	25	57	591.5	576.36	30	30	40
23	248.3	233.17	25	25	25	58	601.6	586.45	30		
24	258.4	243.23	25	25	25	59	611.7	596.55	30		
25	268.5	253.33	25	25	-25	60	621.8	606.65	30	30	40
26	278.6	263.40	25	25	25	62	642.0	626.87	30		
27	288.6	273.49	25	25	25	64	662.2	647.06	30		
28	298.7	283.56	25	25	25	65	672.3	657.16	30	30	40
29	308.8	293.65	25	25	25	66	682.4	667.26	30		
30	318.9	303.75	25	25	25	68	702.6	687.48	30		
31	329.0	313.85	25	25	30	70	722.8	707.67	30	30	40
32	339.1	323.91	25	25	30	72	743.1	727.90	30		
33	349.2	334.01	25	25	30	75	773.3	758.19	30		
34	359.3	344.10	25	25	30	76	783.5	768.32	30	30	40
35	369.4	354.20	25	25	30	80	823.9	808.72	30	30	40
36	379.5	364.30	25	30	30	85	874.4	859.25	30		
37	389.5	374.39	25	30	30	90	924.9	909.76	30		
38	399.6	384.49	25	30	30	95	975.4	960.28	30	30	40
39	409.7	394.59	25	30	30	100	1026.0	1010.79	30		
40	419.8	404.68	25	30	30	114	1167.4	1152.26	30	40	40
41	429.9	414.78	30								
42	440.0	424.88	30	30	40						

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

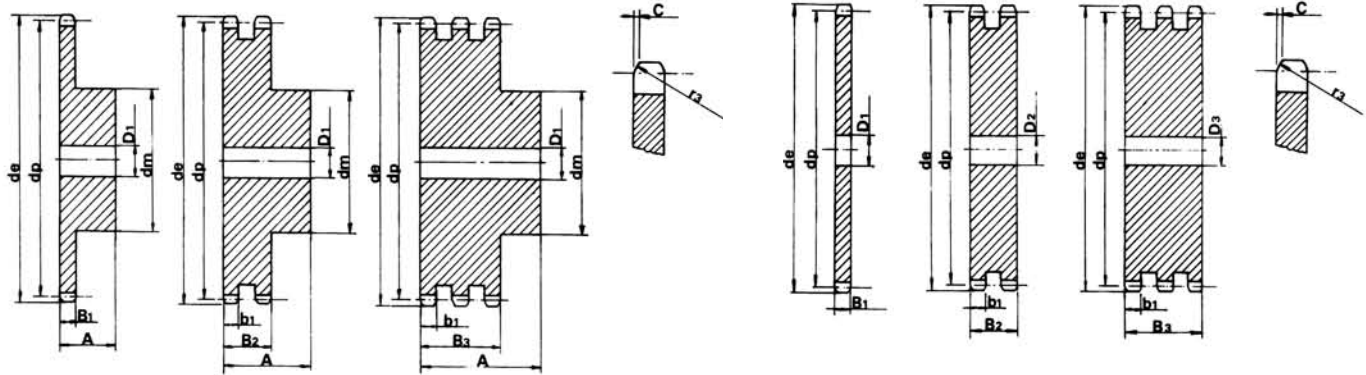
# PIÑONES Y DISCOS NORMA EUROPEA (ISO)

## PIGNONS ET DISQUES NORME EUROPÉENNE (ISO)

### EUROPEAN NORM (ISO) SPROCKETS AND PLATE WHEELS

#### 1" 1/2 x 1" / 24B-1-2-3

Para cadenas de rodillos conformes a la norma DIN 8187 ISO/R 606 / Pour chaînes à rouleaux conformément à la norme DIN 8187 ISO/R 606 / For roller chains in compliance with DIN 8187 ISO/R 606



#### Piñón / Pignon / Sprocket

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3 38  
 Ancho del radio C / Largeur du rayon C / Radius width C 4  
 Ancho de los dientes B1 / Largeur des dents B1 / Sprocket tooth width B1 24.1  
 Ancho de los dientes b1 / Largeur des dents b1 / Sprocket tooth width b1 23.6  
 Ancho de los dientes B2 / Largeur des dents B2 / Sprocket tooth width B2 72  
 Ancho de los dientes B3 / Largeur des dents B3 / Sprocket tooth width B3 120.3

#### Disco / Plateau / Platewheel

mm

Radio de los dientes r3 / Rayon des dents r3 / Tooth radius r3 38  
 Ancho del radio C / Largeur du rayon C / Radius width C 4  
 Ancho de diente B1 / Largeur des dents B1 / Plate tooth width B1 24.1  
 Ancho de diente b1 / Largeur des dents b1 / Plate tooth width b1 23.6  
 Ancho de diente B2 / Largeur des dents B2 / Plate tooth width B2 72  
 Ancho de diente B3 / Largeur des dents B3 / Plate tooth width B3 120.3

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch 38.1  
 Ancho interior / Largeur intérieure / Internal width 25.4  
 Diám. rodillo / Rouleaux - Ø / Roller - Ø 25.4

#### Cadena / Chaîne / Chain

mm

Paso de cadena / Passage de chaîne / Pitch 38.1  
 Ancho interior / Largeur intérieure / Internal width 25.4  
 Diám. rodillo / Rouleaux - Ø / Roller - Ø 25.4

Z	de	dp	Simple / Simple / Single			Doble / Double / Double			Triple / Triple / Triple		
			dm	D1	A	dm	D1	A	dm	D1	A
8	115.0	99.55	58	20	45	58	25	95	58	25	140
9	126.4	111.40	70	20	45	70	25	95	70	25	140
10	138.0	123.29	80	20	45	80	25	95	80	25	140
11	150.0	135.21	90	25	50	90	25	100	90	25	150
12	162.0	147.22	102	25	50	102	25	100	102	25	150
13	174.2	159.18	114	25	50	114	25	100	114	25	150
14	186.2	171.22	128	25	50	128	25	100	128	25	150
15	198.2	183.26	140	25	50	140	25	100	140	25	150
16	210.3	195.30	*140	25	55	*140	25	100	*140	25	150
17	222.3	207.34	*140	25	55	*150	25	100	*150	25	150
18	234.3	219.42	*140	25	55	*160	25	100	*160	25	150
19	246.5	231.49	*140	25	55	*160	25	100	*160	25	150
20	258.6	243.57	*140	25	55	*160	25	100	*160	25	150
21	270.6	255.65	*150	25	60	*160	25	100	*160	30	150
22	282.7	267.73	*150	25	60	*160	25	100	*160	30	150
23	294.8	279.80	*150	25	60	*160	25	100	*160	30	150
24	306.8	291.88	*150	25	60	*160	25	100	*160	30	150
25	319.0	304.00	*150	25	60	*160	25	100	*160	30	150
26	331.0	316.08	*160	30	60	*160	30	100	*160	30	150
27	343.2	328.19	*160	30	60	*160	30	100	*160	30	150
28	355.2	340.27	*160	30	60	*160	30	100	*160	30	150
29	367.3	352.38	*160	30	60	*160	30	100	*160	30	150
30	379.5	364.50	*160	30	60	*160	30	100	*160	40	150
31	391.6	376.62	*160	30	60	*170	30	100			
32	403.7	388.69	*160	30	60	*170	30	100	*170	40	150
33	415.8	400.81	*160	30	60	*170	30	100	*170	40	150
34	427.8	412.93	*160	30	60	*170	30	100	*170	40	150
35	440.0	425.04	*160	30	60	*170	30	100	*170	40	150
36	452.0	437.16	*160	30	60	*170	30	100	*170	40	150
37	464.2	449.27	*160	30	60	*170	30	100			
38	476.2	461.39	*160	30	60	*170	30	100	*170	40	150
39	488.5	473.50	*160	30	60	*170	30	100			
40	500.6	485.62	*160	30	60	*170	30	100	*170	40	150

Z	de	dp	S	D	T	Z	de	dp	S	D	T
			D1	D2	D3				D1	D2	D3
8	115.0	99.55	20	25	25	43	536.8	521.97	30		
9	126.4	111.40	20	25	25	44	549.0	534.08	30		
10	138.0	123.29	20	25	25	45	561.2	546.20	30	40	40
11	150.0	135.21	20	25	25	46	573.3	558.32	30	40	40
12	162.0	147.22	20	25	25	47	585.4	570.43	30		
13	174.2	159.18	20	25	25	48	597.4	582.55	30	40	40
14	186.2	171.22	20	25	25	49	609.5	594.66	30		
15	198.2	183.26	20	25	25	50	621.7	606.78	30	40	40
16	210.3	195.30	25	25	25	51	633.8	618.89	30		
17	222.3	207.34	25	25	25	52	646.0	631.01	30		
18	234.3	219.42	25	25	25	53	658.0	643.13	30		
19	246.5	231.49	25	25	25	54	670.2	655.28	30		
20	258.6	243.57	25	25	25	55	682.3	667.40	30	40	40
21	270.6	255.65	25	25	30	56	694.4	679.51	30		
22	282.7	267.73	25	25	30	57	706.5	691.63	30	40	40
23	294.8	279.80	25	25	30	58	718.6	703.74	30		
24	306.8	291.88	25	25	30	59	730.7	715.86	30		
25	319.0	304.00	25	25	30	60	742.8	727.97	30	40	40
26	331.0	316.08	30	30	30	62	767.2	752.24	40		
27	343.2	328.19	30	30	30	64	791.3	776.48	40		
28	355.2	340.27	30	30	30	65	803.4	788.59	40	40	40
29	367.3	352.38	30	30	30	66	815.6	800.71	40		
30	379.5	364.50	30	30	40	68	839.8	824.98	40		
31	391.6	376.62	30	30	40	70	864.2	849.21	40		
32	403.7	388.69	30	30	40	72	888.4	873.48	40		
33	415.8	400.81	30	30	40	75	924.8	909.83	40		
34	427.8	412.93	30	30	40	76	936.9	921.98	40	40	40
35	440.0	425.04	30	30	40	80	985.4	970.44	40		
36	452.0	437.16	30	30	40	85	1046.0	1031.10	40		
37	464.2	449.27	30	30	40	95	1167.3	1152.33	40		
38	476.2	461.39	30	30	40						
39	488.5	473.50	30	30	40						
40	500.6	485.62	30	30	40						
41	512.6	497.74	30								
42	524.7	509.85	30	40	40						

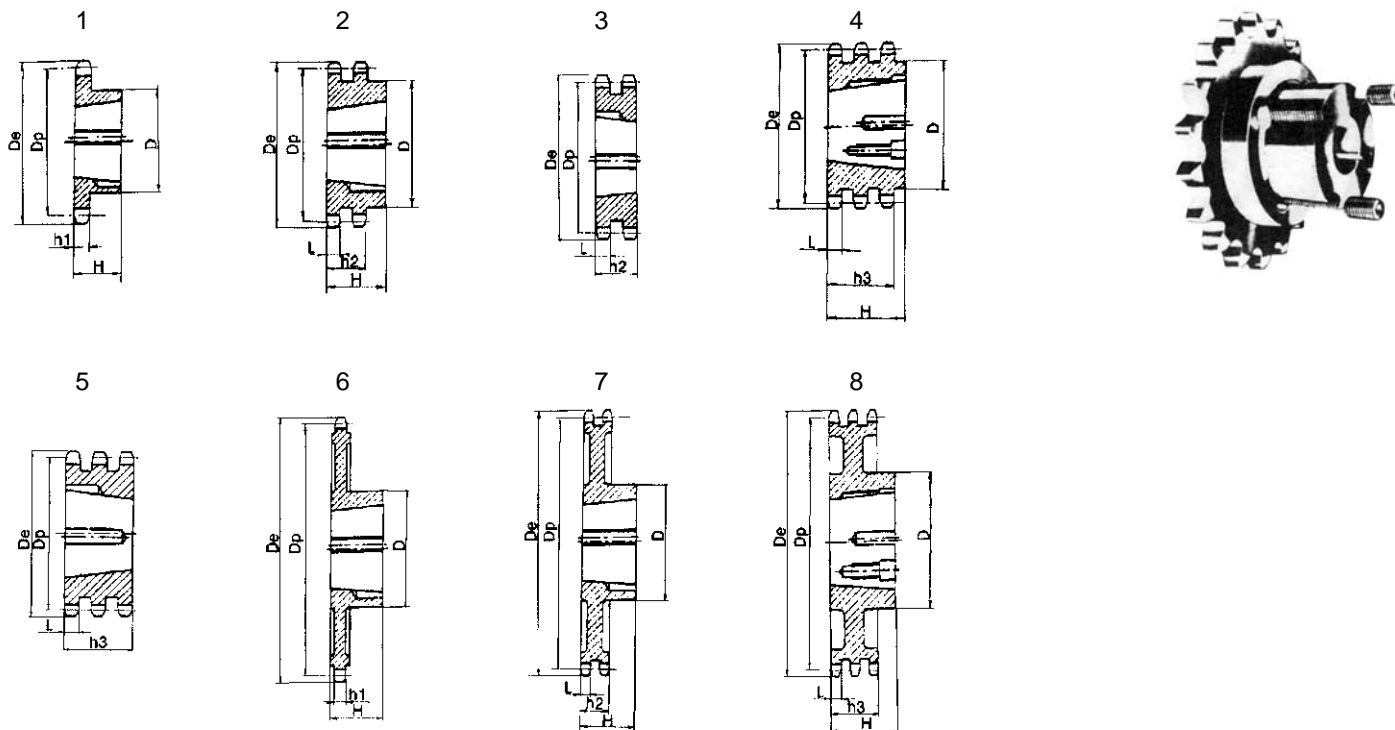
Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES PARA CASQUILLOS CÓNICOS NORMA EUROPEA (ISO)

## PIGNONS AVEC MOYEURS NORME EUROPÉENNE (ISO)

### EUROPEAN TAPER BORED SPROCKETS (ISO)

3/8" x 7/32" / 06B - 1-2-3 9.525 x 5.72mm DIN 8187 / 8188 ISO/R 606



CADENA	CHAÎNE	CHAIN	ISO mm
Paso	Pas	Pitch	9.525
Ancho interno	Largeur interieure	Internal width	5.72
Rodillo Ø	Ø du rouleau	Roller Ø	6.35
PIÑONES	CHAÎNE	CHAIN	ISO mm
Radio diente r	Rayon de denture r	Tooth radius r	r 10
Ancho radio C	Largeur de rayon C	Radius width C	C 1
Ancho diente h1	Largeur de denture h1	Tooth width h 1	h1 5.3
Ancho diente L	Largeur de denture L	Tooth width L	L 5.2
Ancho diente h2	Largeur de denture h2	Tooth width h2	h2 15.4
Ancho diente h3	Largeur de denture h3	Tooth width h3	h3 25.6

Z	De	Dp	TS				TD				TT						
			cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type Type	cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type Type	cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type Type
17	55,3	51,83	06B1Z17	45	22	1008	1	06B2Z17	41	22	1008	2	06B3Z17	-	25,6	1008	5
19	61,3	57,87	06B1Z19	45	22	1008	1	06B2Z19	46	22	1008	2	06B2Z19	-	25,6	1008	5
21	68,0	63,91	06B1Z21	46	22	1008	1	06B2Z21	49	22	1008	2	06B3Z21	-	25,6	1008	5
23	73,5	69,95	06B1Z23	63	25	1210	1	06B2Z23	59	25	1210	2	06B3Z23	-	25,6	1210	5
25	80,0	76,02	06B1Z25	63	25	1210	1	06B2Z25	64	25	1210	2	06B3Z25	-	25,6	1210	5
27	86,0	82,02	06B1Z27	63	25	1210	1	06B2Z27	70	25	1210	2	06B3Z27	-	25,6	1210	5
30	94,7	91,12	06B1Z30	63	25	1210	1	06B2Z30	75	25	1210	2	06B3Z30	79	38	1615	4
38	119,5	115,35	06B1Z38	70	25	1210	1	06B2Z38	80	25	1610	2	06B3Z38	90	38	1615	4
*45	140,7	136,55	06B1Z45	70	25	1210	1	06B2Z45	80	25	1610	2					
*57	176,9	172,91	06B1Z57	70	25	1210	6	06B2Z57	80	25	1610	7					
*76	234,9	230,49	06B1Z76	70	25	1210	6	06B2Z76	80	25	1610	7					
*95	292,5	288,08	06B1Z95	80	25	1210	6	06B2Z95	90	25	1610	7					
*114	349,5	345,68	06B1Z114	80	25	1210	6	06B2Z114	95	38	1615	7					

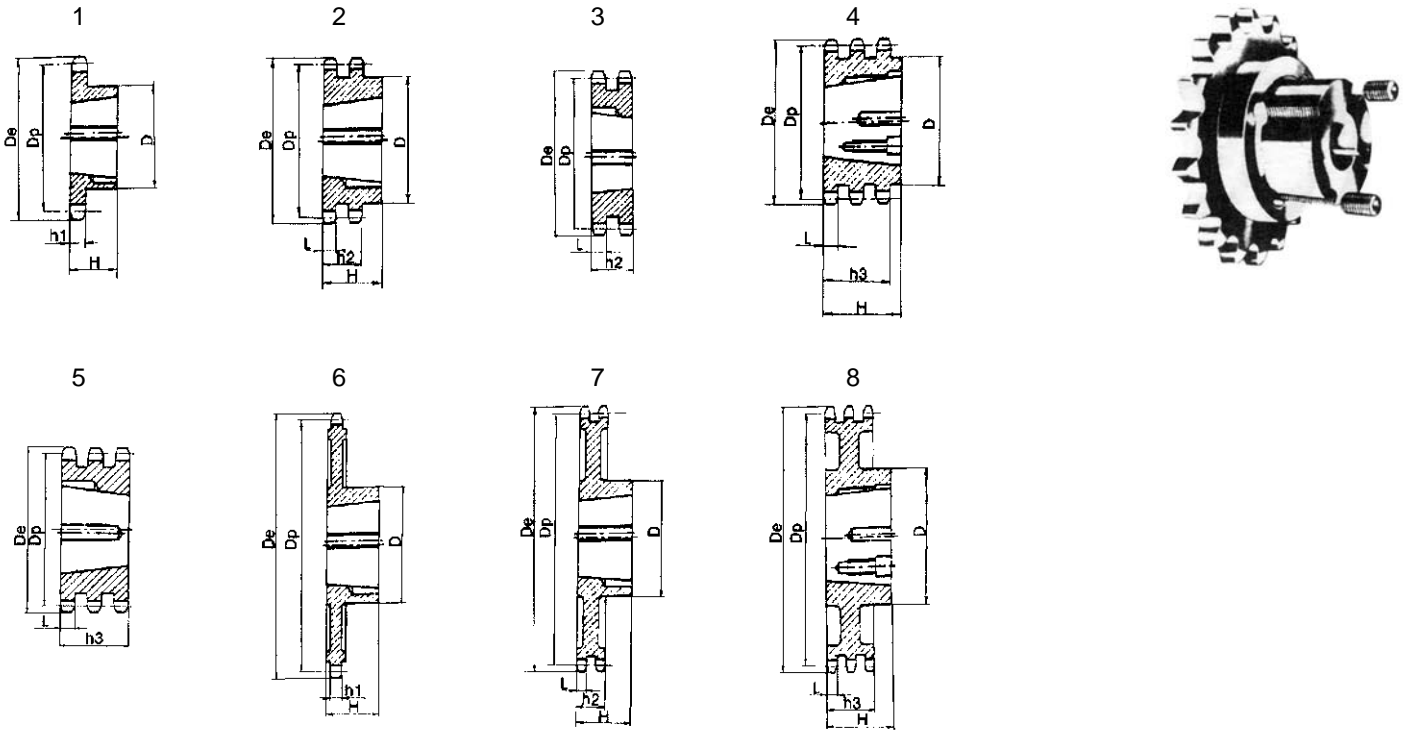
Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES PARA CASQUILLOS CÓNICOS NORMA EUROPEA (ISO)

## PIGNONS AVEC MOYEUX NORME EUROPÉENNE (ISO)

### EUROPEAN TAPER BORED SPROCKETS (ISO)

1/2" x 5/16" / 08B - 1-2-3 12.7 x 7.75mm DIN 8187 / 8188 ISO/R 606



CADENA	CHAÎNE	CHAIN	ISO mm
Paso	Pas	Pitch	12.07
Ancho interno	Largeur interieure	Internal width	7.75
Rodillo Ø	Ø du rouleau	Roller Ø	8.51
PIÑONES	CHAÎNE	CHAIN	ISO mm
Radio diente r	Rayon de denture r	Tooth radius r	r 13
Ancho radio C	Largeur de rayon C	Radius width C	C 1.3
Ancho diente h1	Largeur de denture h1	Tooth width h 1	h1 7.2
Ancho diente L	Largeur de denture L	Tooth width L	L 7
Ancho diente h2	Largeur de denture h2	Tooth width h2	h2 21
Ancho diente h3	Largeur de denture h3	Tooth width h3	h3 34.9

Z	De	Dp	TS				TD				TT						
			cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type Type	cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type Type	cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type Type
15	65,5	61,9	08B1Z15	45	22	1008		08B2Z15	46	22	1008	2	08B3Z15	-	34,9	1008	5
17	73,6	69,11	08B1Z17	60	25	1210	1	08B2Z17	56	25	1210	2	08B3Z17	-	34,9	1210	5
19	81,7	77,16	08B1Z19	63	25	1210	1	08B2Z19	62	25	1210	2	08B3Z19	-	34,9	1210	5
21	89,7	85,22	08B1Z21	71	25	1610	1	08B2Z21	70	25	1610	2	08B3Z21	-	34,9	1610	5
23	98,2	93,27	08B1Z23	76	25	1610	1	08B2Z23	79	25	1610	2	08B3Z23	-	34,9	1610	5
25	105,8	101,33	08B1Z25	76	25	1610	1	08B2Z25	87	32	2012	2	08B3Z25	-	34,9	2012	5
27	114,0	109,40	08B1Z27	76	25	1610	1	08B2Z27	87	32	2012	2	08B3Z27	-	34,9	2012	5
30	126,1	121,50	08B1Z30	90	32	2012	1	08B2Z30	87	32	2012	2	08B3Z30	-	34,9	2012	5
38	158,6	153,80	08B1Z38	90	32	2012	1	08B2Z38	100	32	2012	2	08B3Z38	-	34,9	2012	5
*45	188,0	182,07	08B1Z45	100	32	2012	1	08B2Z45	100	32	2012	2					
*57	236,4	230,54	08B1Z57	100	32	2012	6	08B2Z57	100	32	2012	7					
*78	313,3	307,33	08B1Z78	100	32	2012	6	08B2Z78	100	32	2012	7					
*95	390,1	384,11	08B1Z95	100	32	2012	6	08B2Z95	100	32	2012	7					
*114	466,9	460,90	08B1Z114	110	45	2517	6	08B2Z114	110	45	2517	7					

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES PARA CASQUILLOS CÓNICOS NORMA EUROPEA (ISO)

## PIGNONS AVEC MOYEURS NORME EUROPÉENNE (ISO)

### EUROPEAN TAPER BORED SPROCKETS (ISO)

#### 5/8" x 3/8" / 10B - 1-2-3 15.875 x 9.65mm DIN 8187 / 8188 ISO/R 606

CADENA	CHAÎNE	CHAIN	ISO mm
Paso Ancho interno Rodillo Ø	Pas Largeur interieure Ø du rouleau	Pitch Internal width Roller Ø	15.875 9.65 10.16
PIÑONES	CHAÎNE	CHAIN	ISO mm
Radio diente r Ancho radio C Ancho diente h1 Ancho diente L Ancho diente h2 Ancho diente h3	Rayon de denture r Largeur de rayon C Largeur de denture h1 Largeur de denture L Largeur de denture h2 Largeur de denture h3	Tooth radius r Radius width C Tooth width h1 Tooth width L Tooth width h2 Tooth width h3	r 16 C 1.6 h1 9.1 L 9 h2 25.5 h3 42.1



\* in ghisa - cast iron - Guss  
Acciaio - Steel - Stahl = C.43  
Ghisa - Cast iron - Guss = G.22

Z	De	Dp	TS				TD				TT						
			cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type	cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type	cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type
13	87,5	79,59	10B1Z13	60	25	1210	1	10B2Z15	-	30,3	1610	3	10B3Z15	-	49,8	1615	5
15	99,8	91,63	10B1Z15	70	25	1610	1	10B2Z17	-	30,3	1610	3	10B3Z17	-	49,8	1615	5
17	111,5	103,67	10B1Z17	76	25	1610	1	10B2Z19	90	32	2012	2	10B3Z19	-	49,8	2012	5
19	124,2	115,75	10B1Z19	90	32	2012	1	10B2Z21	108	45	2517	2	10B3Z21	-	49,8	2517	5
21	136,0	127,82	10B1Z21	102	45	2517	1	10B2Z23	108	45	2517	2	10B3Z23	-	49,8	2517	5
23	149,0	139,90	10B1Z23	108	45	2517	1	10B2Z25	108	45	2517	2	10B3Z25	-	49,8	2517	5
25	160,0	152,00	10B1Z25	108	45	2517	1	10B2Z27	108	45	2517	2	10B3Z27	140	51	3020	4
27	172,3	164,00	10B1Z27	108	45	2517	1	10B2Z30	108	45	2517	2	10B3Z30	140	51	3020	4
30	190,5	182,25	10B1Z30	108	45	2517	1	10B2Z38	140	51	3020	2	10B3Z38	140	51	3020	4
38	239,0	230,69	10B1Z38	108	45	2517	1	10B2Z45	140	51	3020	7	10B3Z45	140	51	3020	8
*45	282,5	273,10	10B1Z45	108	45	2517	6	10B2Z57	140	51	3020	7	10B3Z57	140	51	3020	8
*57	355,4	345,81	10B1Z57	108	45	2517	6	10B2Z76	140	51	3020	7	10B3Z76	140	51	3020	8
*76	469,9	460,99	10B1Z76	108	45	2517	6	10B2Z95	140	51	3020	7	10B3Z95	140	76	3030	8
*95	585,1	576,17	10B1Z95	108	45	2517	6	11B2Z114	140	76	3030	7	11B3Z114	140	76	3030	8
*114	700,6	691,36	11B1Z114	108	64	2525	6										

#### 3/4" x 7.16" / 12B - 1-2-3 19.05 x 11.68mm DIN 8187 / 8188 ISO/R 606

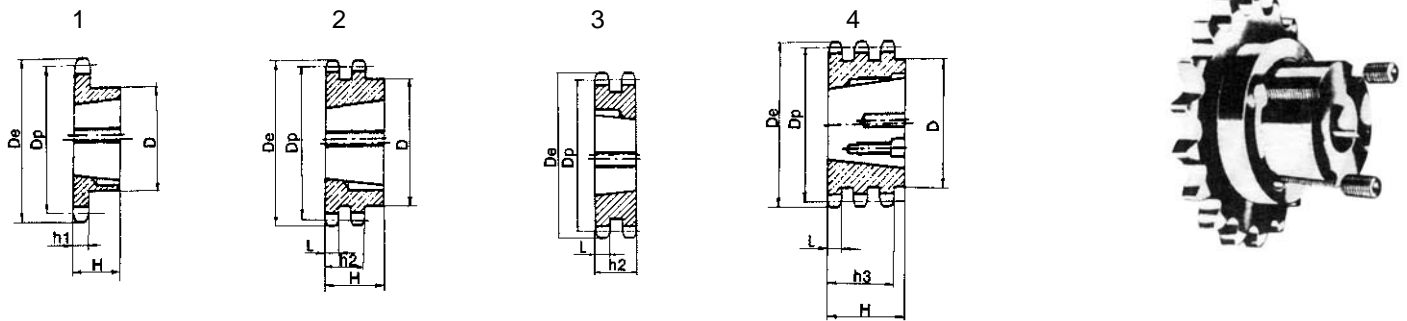
CADENA	CHAÎNE	CHAIN	ISO mm
Paso Ancho interno Rodillo Ø	Pas Largeur interieure Ø du rouleau	Pitch Internal width Roller Ø	19.05 11.68 12.07
PIÑONES	CHAÎNE	CHAIN	ISO mm
Radio diente r Ancho radio C Ancho diente h1 Ancho diente L Ancho diente h2 Ancho diente h3	Rayon de denture r Largeur de rayon C Largeur de denture h1 Largeur de denture L Largeur de denture h2 Largeur de denture h3	Tooth radius r Radius width C Tooth width h1 Tooth width L Tooth width h2 Tooth width h3	r 19 C 2 h1 11.1 L 10.8 h2 30.3 h3 49.8

Z	De	Dp	TS				TD				TT						
			cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type	cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type	cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type
13	87,5	79,59	12B1Z13	60	25	1210	1	12B2Z15	-	30,3	1610	3	12B3Z15	-	49,8	1615	5
15	99,8	91,63	12B1Z15	70	25	1610	1	12B2Z17	-	30,3	1610	3	12B3Z17	-	49,8	1615	5
17	111,5	103,67	12B1Z17	76	25	1610	1	12B2Z19	90	32	2012	2	12B3Z19	-	49,8	2012	5
19	124,2	115,75	12B1Z19	90	32	2012	1	12B2Z21	108	45	2517	2	12B3Z21	-	49,8	2517	5
21	136,0	127,82	12B1Z21	102	45	2517	1	12B2Z23	108	45	2517	2	12B3Z23	-	49,8	2517	5
23	149,0	139,90	12B1Z23	108	45	2517	1	12B2Z25	108	45	2517	2	12B3Z25	-	49,8	2517	5
25	160,0	152,00	12B1Z25	108	45	2517	1	12B2Z27	108	45	2517	2	12B3Z27	140	51	3020	4
27	172,3	164,00	12B1Z27	108	45	2517	1	12B2Z30	108	45	2517	2	12B3Z30	140	51	3020	4
30	190,5	182,25	12B1Z30	108	45	2517	1	12B2Z38	140	51	3020	2	12B3Z38	140	51	3020	4
38	239,0	230,69	12B1Z38	108	45	2517	1	12B2Z45	140	51	3020	7	12B3Z45	140	51	3020	8
*45	282,5	273,10	12B1Z45	108	45	2517	6	12B2Z57	140	51	3020	7	12B3Z57	140	51	3020	8
*57	355,4	345,81	12B1Z57	108	45	2517	6	12B2Z76	140	51	3020	7	12B3Z76	140	51	3020	8
*76	469,9	460,99	12B1Z76	108	45	2517	6	12B2Z95	140	51	3020	7	12B3Z95	140	76	3030	8
*95	585,1	576,17	12B1Z95	108	45	2517	6	12B2Z114	140	76	3030	7	12B3Z114	140	76	3030	8
*114	700,6	691,36	12B1Z114	108	64	2525	6										

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

**PIÑONES PARA CASQUILLOS CÓNICOS NORMA EUROPEA (ISO)**  
**PIGNONS AVEC MOYEUX NORME EUROPÉENNE (ISO)**  
**EUROPEAN TAPER BORED SPROCKETS (ISO)**

**1" x 17.02 mm / 16B - 1-2-3 25.4 x 17.2mm DIN 8180 / 8187 - 8188 ISO/R 606**



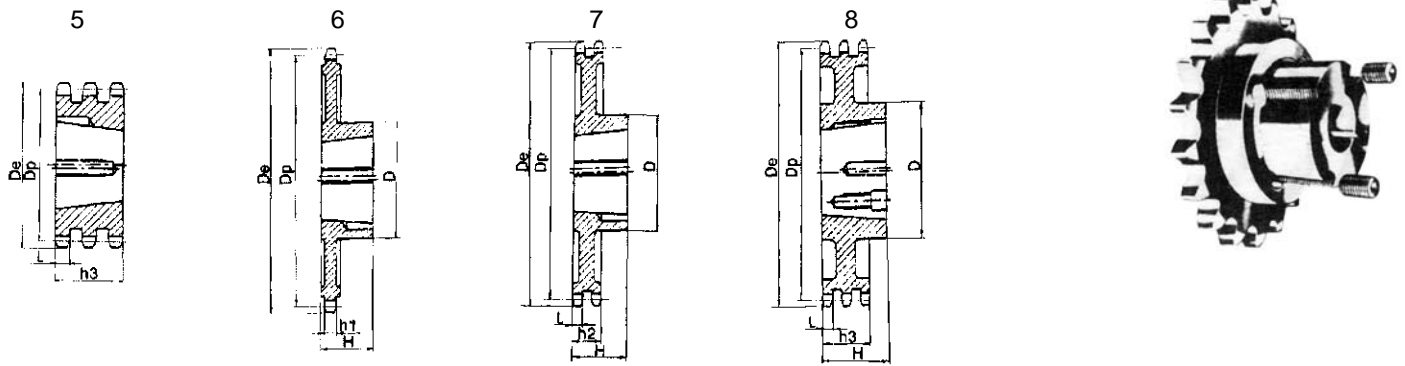
CADENA	CHAÎNE	CHAIN	ISO mm
<b>Paso</b>	Pas	<i>Pitch</i>	<b>25.4</b>
<b>Ancho interno</b>	Largeur interieure	<i>Internal width</i>	<b>17.02</b>
<b>Rodillo Ø</b>	Ø du rouleau	<i>Roller Ø</i>	<b>15.88</b>
PIÑONES	CHAÎNE	CHAIN	ISO mm
<b>Radio diente r</b>	Rayon de denture r	<i>Tooth radius r</i>	<b>r 26</b>
<b>Ancho radio C</b>	Largeur de rayon C	<i>Radius width C</i>	<b>C 2.5</b>
<b>Ancho diente h1</b>	Largeur de denture h1	<i>Tooth width h 1</i>	<b>h1 16.2</b>
<b>Ancho diente L</b>	Largeur de denture L	<i>Tooth width L</i>	<b>L 15.8</b>
<b>Ancho diente h2</b>	Largeur de denture h2	<i>Tooth width h2</i>	<b>h2 47.7</b>
<b>Ancho diente h3</b>	Largeur de denture h3	<i>Tooth width h3</i>	<b>h3 79.6</b>

Z	De	Dp	TS				TD				TT							
			cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type	cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type	cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type	
13	117,0	106,12	16B1Z13	73	38	1615	1											
15	133,0	122,17	16B1Z15	76	38	1615	1	16B2Z15	—	47,7	2012	3	16B3Z15					
17	149,0	138,22	16B1Z17	90	32	2012	1	16B2Z17	—	47,7	2517	3	16B3Z17	—	79,6	2517	5	
19	165,2	154,33	16B1Z19	108	45	2517	1	16B2Z19	—	47,7	2517	3	16B2Z19	—	79,6	3030	5	
21	181,2	170,43	16B1Z21	110	45	2517	1	16B2Z21	140	51	3020	2	16B3Z21	—	79,6	3030	5	
23	197,5	186,53	16B1Z23	110	45	2517	1	16B2Z23	140	51	3020	2	16B3Z23	159	89	3535	4	
25	213,5	202,66	16B1Z25	110	45	2517	1	16B2Z25	140	51	3020	2	16B3Z25	175	89	3535	4	
27	229,6	218,79	16B1Z27	110	45	2517	1	16B2Z27	140	51	3020	2	16B3Z27	175	89	3535	4	
30	254,0	243,00	16B1Z30	140	51	3020	1	16B2Z30	140	76	3030	2	16B3Z30	175	89	3535	4	
38	320,7	307,59	16B1Z38	140	51	3020	1	16B2Z38	140	76	3030	2	16B3Z38	175	89	3535	4	
*45	377,1	364,13	16B1Z45	140	51	3020	6	16B2Z45	140	76	3030	7	16B3Z45	215	102	4040	8	
*57	474,0	461,07	16B1Z57	140	51	3020	6	16B2Z57	175	89	3535	7	16B3Z57	215	102	4040	8	
*76	627,0	614,65	16B1Z76	140	51	3020	6	16B2Z76	175	89	3535	7	16B3Z76	215	102	4040	8	
*95	781,1	768,22	16B1Z95	140	51	3020	6	16B2Z95	215	102	4040	7	16B3Z95	215	102	4040	8	
*114	934,3	921,81	16B1Z114	140	76	3030	6	16B2Z114	215	102	4040	7	16B3Z114	260	114	4545	8	

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

**PIÑONES PARA CASQUILLOS CÓNICOS NORMA EUROPEA (ISO)**  
**PIGNONS AVEC MOYEUX NORME EUROPÉENNE (ISO)**  
**EUROPEAN TAPER BORED SPROCKETS (ISO)**

**1" 1/4 x 3/4" / 20B - 1-2-3 31.75 x 19.56mm DIN 8180 / 8187 - 8188 ISO/R 606**

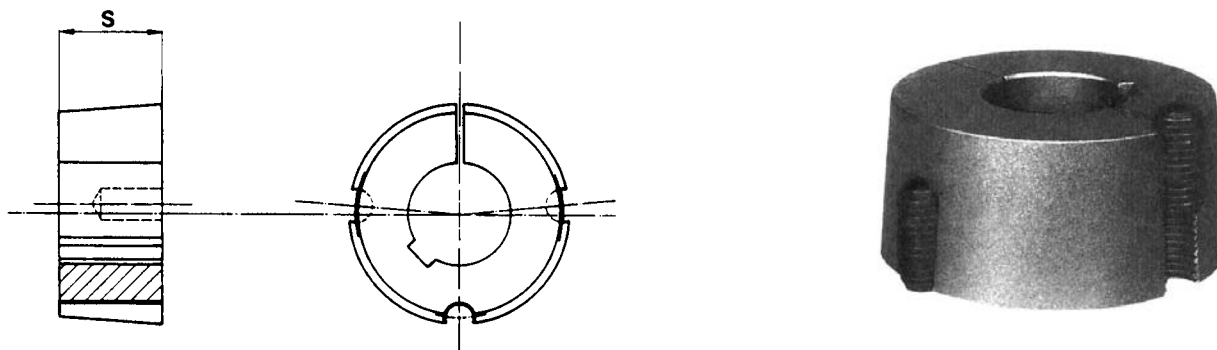


CADENA	CHAÎNE	CHAIN	ISO mm
Paso	Pas	Pitch	31.75
Ancho interno	Largeur interieure	Internal width	19.56
Rodillo Ø	Ø du rouleau	Roller Ø	19.05
PIÑONES	CHAÎNE	CHAIN	ISO mm
Radio diente r	Rayon de denture r	Tooth radius r	r 32
Ancho radio C	Largeur de rayon C	Radius width C	C 3.5
Ancho diente h1	Largeur de denture h1	Tooth width h 1	h1 18.5
Ancho diente L	Largeur de denture L	Tooth width L	L 18.2
Ancho diente h2	Largeur de denture h2	Tooth width h2	h2 54.6
Ancho diente h3	Largeur de denture h3	Tooth width h3	h3 91

Z	De	Dp	TS				
			cod.	d	H	Por casquillo Pour Moyeu amovible For bush	Tipo Type
13	147,8	132,65	20B1Z13	90	32	2012	1
15	167,9	152,72	20B1Z15	108	45	2517	1
17	187,9	172,78	20B1Z17	108	45	2517	1
19	208,1	192,91	20B1Z19	108	45	2517	1
21	228,2	213,04	20B1Z21	108	45	2517	1
23	248,3	233,17	20B1Z23	108	45	2517	1
25	268,5	253,33	20B1Z25	108	45	2517	1
27	288,6	273,40	20B1Z27	150	51	3020	1
30	318,9	303,75	20B1Z30	150	51	3020	1
38	399,6	384,49	20B1Z38	160	51	3020	6
*45	470,3	455,17	20B1Z45	160	51	3020	6
*57	591,5	576,36	20B1Z57	160	51	3020	6
*76	783,5	768,32	20B1Z76	160	51	3020	6

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

**GAMA DE CASQUILLOS NORMA EUROPEA (ISO)**  
**GAMME DE MOYEUX NORME EUROPÉENNE (ISO)**  
**EUROPEAN TAPER BUSH RANGE (ISO)**

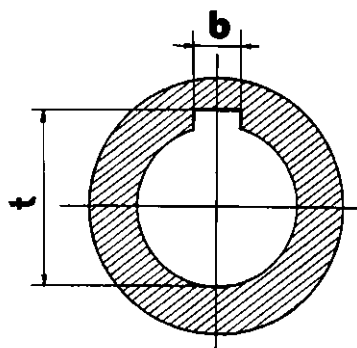


**Taladros estandar de acopio serie métrica**  
*Alésages standard de acopio serie métrica*  
*Standard metric bores*

Tipo bussola Moyeux type Type of bush	COD.	Foro in mm (ISO E 8) Alesages en mm (ISO E 8) Bores in mm (ISO E 8)	S	Peso Poids Weight Kg.
<b>1008</b>	TRK 1008	9 10 11 12 14 16 18 19 20 22 24 25 28*	22,3	0,16
<b>1210</b>	TRK 1210	11 12 14 16 18 19 20 22 24 25 28 30 32	25,4	0,32
<b>1610</b>	TRK 1610	14 16 18 19 20 22 24 25 28 30 32 35 38 40* 42*	25,4	0,41
<b>1615</b>	TRK 1615	14 16 18 19 20 22 24 25 28 30 32 35 38 40* 42*	38,1	0,60
<b>2012</b>	TRK 2012	14 16 18 19 20 22 24 25 28 30 32 35 38 40 42 45 48 50*	31,8	0,75
<b>2517</b>	TRK 2517	16 18 19 20 22 24 25 28 30 32 35 38 40 42 45 48 50 55 60	44,5	1,06
<b>3020</b>	TRK 3020	25 28 30 32 35 38 40 42 45 48 50 55 60 65 70 75	50,8	2,50
<b>3030</b>	TRK 3030	35 38 40 42 45 48 50 55 60 65 70 75	76,2	3,75
<b>3535</b>	TRK 3535	35 38 40 42 45 48 50 55 60 65 70 75 80 85 90*	88,9	5,13
<b>4040</b>	TRK 4040	40 42 45 48 50 55 60 65 70 75 80 85 90 95 100*	101,6	7,68
<b>5050</b>	TRK 5050	70 75 80 85 90 95 100 105 110 115 120 125	127,0	15,17

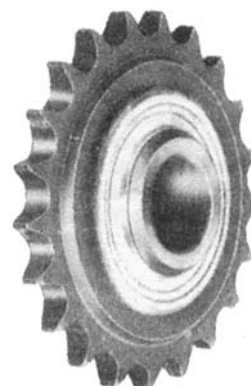
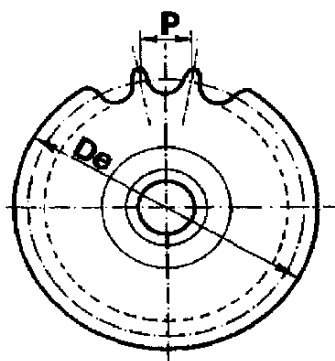
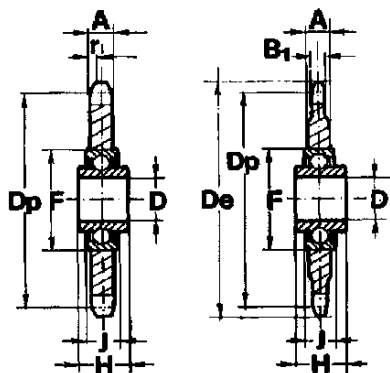
**Medidas de los chavateros (UNI 6604-69 DIN 6885) con agujero esta. serie métrica**  
*Dimens. de rainures de clavette (UNI 6604-69 DIN 6885) dans les moyeux avec alésage stand. série métrique*  
*Keyway dimensions (UNI 6604-69 DIN 6885) with standard metric bore*

D	b	T
Over 10 to 12	4	D + 1,8
» 12 » 17	5	D + 2,3
» 17 » 22	6	D + 2,8
» 22 » 30	8	D + 3,3
» 30 » 38	10	D + 3,3
» 38 » 44	12	D + 3,3
» 44 » 50	14	D + 3,8
» 50 » 58	16	D + 4,3
» 58 » 65	18	D + 4,4
» 65 » 75	20	D + 4,9
» 75 » 85	22	D + 5,4
» 85 » 95	25	D + 5,4
» 95 » 110	28	D + 6,4
» 110 » 130	32	D + 7,4



D*	Medidas de los chavateros Dimensions des rainures de clavette Keyway dimensions	
	b	t
28*	8	D + 1,3
35*	10	D + 1,3
40*/42*	12	D + 1,3
50*	14	D + 2,8
90*	25	D + 3,4
100*	28	D + 5,4

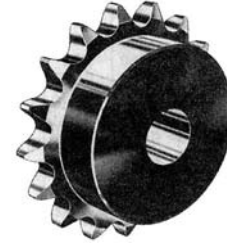
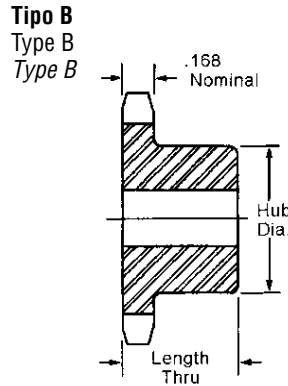
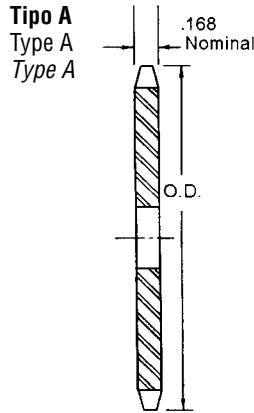
**PIÑONES TENSORES CON COJINETE**  
**PIGNONS TENDEURS COMPLETS AVEC ROULEMENT**  
**BALL BEARING IDLER SPROCKETS FOR CHAIN TENSIONERS**



Z	cod.	P.	De	Dp	B1	A	D	F	H	J
23	PC 04023	8 x 1/8"	62,0	58,75	2,8	7	16 <sup>+0,130</sup> <sub>+0,260</sub>	40	18,3	12
21	PC 05021	3/8" x 7/32"	68,0	63,91	5,3	7	16 <sup>+0,130</sup> <sub>+0,260</sub>	40	18,3	12
18	PC 06018	1/2" x 1/8"	78,9	73,14	3	7	16 <sup>+0,130</sup> <sub>+0,260</sub>	40	18,3	12
18	PC 07018	1/2" x 3/16"	78,9	73,14	4,5	7	16 <sup>+0,130</sup> <sub>+0,260</sub>	40	18,3	12
16	PC 09016	1/2" x 5/16"	69,5	65,10	7,2	7,2	16 <sup>+0,130</sup> <sub>+0,260</sub>	40	18,3	12
18	PC 09018	1/2" x 5/16"	77,8	73,14	7,2	7,2	16 <sup>+0,130</sup> <sub>+0,260</sub>	40	18,3	12
17	PC 11017	5/8" x 3/8"	93,0	86,30	9,1	9,1	16 <sup>+0,130</sup> <sub>+0,260</sub>	40	18,3	12
15	PC 11015	3/4" x 7/16"	99,8	91,63	11,1	11,1	16 <sup>+0,130</sup> <sub>+0,260</sub>	40	18,3	12
12	PC 12012	1" x 17,02	109,0	98,14	16,2	16,2	20 <sup>+0</sup> <sub>-0,010</sub>	47	17,7	14
13	PC 13013	1"1/4 x 3/4"	147,8	132,65	18,5	18,5	25 <sup>+0</sup> <sub>-0,010</sub>	52	21	15

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 35 paso 3/8" / No. 35 pas 3/8" / No. 35 3/8" Pitch



Simple, tipo B / Simple - Type B / Single - Type B

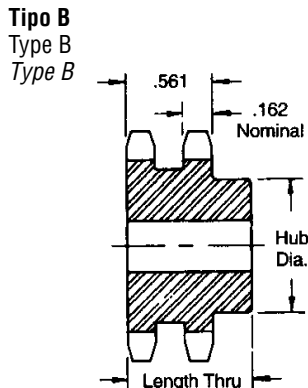
Simple, tipo A / Simple - Type B / Single - Type A

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox.) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox.) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
8	35B1Z8	1.130	B	3/8	3/8	3/4	3/4	.07				
9	35B1Z9	1.260	B	3/8	3/8	7/8	3/4	.09				
10	35B1Z10	1.380	B	3/8	9/16	7/8	3/4	.14				
11	35B1Z11	1.500	B	3/8	9/16	1 1/8	3/4	.17				
12	35B1Z12	1.630	B	1/2	9/16	1 1/2	3/4	.20				
13	35B1Z13	1.750	B	1/2	1 1/16	1 1/2	3/4	.23				
14	35B1Z14	1.870	B	1/2	3/8	1 1/2	3/4	.25				
15	35B1Z15	1.990	B	1/2	7/8	1 7/8	3/4	.29	A	35A1Z15	1/2	.10
16	35B1Z16	2.110	B	1/2	1 1/16	1 7/8	3/4	.35	A	35A1Z16	1/2	.12
17	35B1Z17	2.230	B	1/2	1 1/8	1 7/8	3/4	.42	A	35A1Z17	1/2	.12
18	35B1Z18	2.350	B	1/2	1 3/8	1 7/8	3/4	.48	A	35A1Z18	1/2	.14
19	35B1Z19	2.470	B	1/2	1 1/4	1 7/8	3/4	.54	A	35A1Z19	1/2	.16
20	35B1Z20	2.590	B	1/2	1 3/8	1 7/8	3/4	.59	A	35A1Z20	1/2	.20
21	35B1Z21	2.710	B	1/2	1 3/8	2	7/8	.80	A	35A1Z21	1/2	.20
22	35B1Z22	2.830	B	1/2	1 3/8	2	7/8	.80	A	35A1Z22	1/2	.22
23	35B1Z23	2.950	B	1/2	1 3/8	2	7/8	.82	A	35A1Z23	1/2	.24
24	35B1Z24	3.070	B	1/2	1 3/8	2	7/8	.88	A	35A1Z24	1/2	.26
25	35B1Z25	3.190	B	1/2	1 3/8	2	7/8	.88	A	35A1Z25	1/2	.28
26	35B1Z26	3.310	B	1/2	1 3/8	2	7/8	.90	A	35A1Z26	1/2	.28
27	35B1Z27	3.430	B	1/2	1 3/8	2	7/8	.94	A	35A1Z27	1/2	.34
28	35B1Z28	3.550	B	1/2	1 3/8	2	7/8	.94	A	35A1Z28	1/2	.34
30	35B1Z30	3.790	B	1/2	1 3/8	2	7/8	1.02	A	35A1Z30	1/2	.46
32	35B1Z32	4.030	B	1/2	1 3/8	2	7/8	1.24	A	35A1Z32	3/8	.46
35	35B1Z35	4.390	B	3/8	1 1/2	2 1/4	7/8	1.50	A	35A1Z35	5/8	.60
36	35B1Z36	4.510	B	3/8	1 1/2	2 1/4	7/8	1.56	A	35A1Z36	3/8	.62
40	35B1Z40	4.990	B	5/8	1 1/2	2 1/4	1	1.62	A	35A1Z40	1 1/8	.70
42	35B1Z42	5.230	B	5/8	1 1/2	2 1/4	1	1.68	A	35A1Z42	1 1/8	.78
45	35B1Z45	5.590	B	5/8	1 1/2	2 1/4	1	1.78	A	35A1Z45	1 1/8	.88
48	35B1Z48	5.950	B	5/8	1 1/2	2 1/4	1	1.88	A	35A1Z48	1 1/8	1.21
54	35B1Z54	6.660	B	5/8	1 1/2	2 1/4	1	2.20	A	35A1Z54	1 1/8	1.32
60	35B1Z60	7.380	B	3/4	1 1/2	2 1/4	1	2.48	A	35A1Z60	2 3/8	1.66
70	35B1Z70	8.580	B	3/4	1 1/2	2 1/4	1	3.12	A	35A1Z70	2 3/8	2.30
72	35B1Z72	8.810	B	3/4	1 1/2	2 1/4	1	3.42	A	35A1Z72	2 3/8	2.56
80	35B1Z80	9.770	B	3/4	1 1/2	2 1/4	1	3.82	A	35A1Z80	2 3/8	3.16
84	35B1Z84	10.250	B	3/4	1 1/2	2 1/4	1	4.24	A	35A1Z84	2 3/8	3.26
96	35B1Z96	11.680	B	3/4	1 1/2	2 1/4	1	5.16	A	35A1Z96	2 3/8	4.64

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 35-2 paso 3/8" / No. 35-2 pas 3/8" / No. 35-2 3/8" Pitch



Doble, tipo B / Double - Type B / Double - Type B

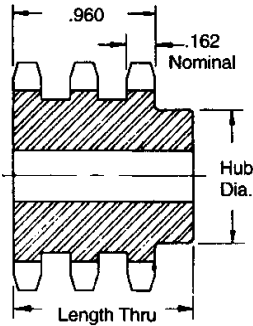
Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésis (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras(aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám.int.máx Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
12	35B2Z12	1.630	B	1/2	9/16	63/64	1/4	.32
13	35B2Z13	1.750	B	1/2	11/16	13/4	1/4	.36
14	35B2Z14	1.870	B	1/2	7/8	1 1/8	1/4	.44
15	35B2Z15	1.990	B	1/2	15/16	1 13/32	1/4	.56
16	35B2Z16	2.110	B	1/2	15/16	1 15/32	1/4	.64
17	35B2Z17	2.230	B	1/2	1 1/8	1 9/32	1/4	.74
18	35B2Z18	2.350	B	1/2	1 1/8	1 23/32	1/4	.84
19	35B2Z19	2.470	B	1/2	1 1/8	1 1/8	1/4	.96
20	35B2Z20	2.590	B	3/4	1 1/8	1 15/16	1/8	1.08
21	35B2Z21	2.710	B	3/4	1 3/8	2 1/16	1 3/8	1.24
22	35B2Z22	2.830	B	3/4	1 1/8	2 3/16	1 3/8	1.42
23	35B2Z23	2.950	B	3/4	1 1/2	2 1/4	1 3/8	1.54
24	35B2Z24	3.070	B	3/4	1 1/2	2 1/4	1 3/8	1.62
25	35B2Z25	3.190	B	3/4	1 1/2	2 1/4	1 3/8	1.66
26	35B2Z26	3.310	B	3/4	1 3/4	2 1/2	1 3/8	1.98
30	35B2Z30	3.790	B	3/4	1 3/4	2 1/2	1 3/8	2.34
36	35B2Z36	4.510	B	3/4	1 3/4	2 1/2	1 3/8	3.00
42	35B2Z42	5.230	B	3/4	1 3/4	2 1/2	1 3/8	3.80
48	35B2Z48	5.950	B	3/4	1 3/4	2 1/2	1 3/8	4.66
52	35B2Z52	6.430	B	3/4	1 3/4	2 1/2	1 3/8	5.40
60	35B2Z60	7.380	B	3/4	1 3/4	2 1/2	1 3/8	6.84
68	35B2Z68	8.340	B	3/4	2 3/8	3 1/2	1 1/2	10.01
72	35B2Z72	8.810	B	3/4	2 3/8	3 1/2	1 1/2	11.04
76	35B2Z76	9.290	B	3/4	2 3/8	3 1/2	1 1/2	11.94
84	35B2Z84	10.250	B	3/4	2 3/8	3 1/2	1 1/2	14.98
95	35B2Z95	11.560	B	1	2 3/8	3 1/2	1 1/2	17.42
96	35B2Z96	11.680	B	1	2 3/8	3 1/2	1 1/2	18.14
102	35B2Z102	12.400	B	1	2 3/8	3 1/2	1 1/2	19.92

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

**PIÑONES Y DISCOS NORMA AMERICANA (ASA)**  
**PIGNONS ET DISQUES NORME AMERICAINE (ASA)**  
**AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)**

**No. 35-3 paso 3/8" / No. 35-3 pas 3/8" / No. 35-3 3/8" Pitch**

**Tipo B**  
 Type B  
 Type B



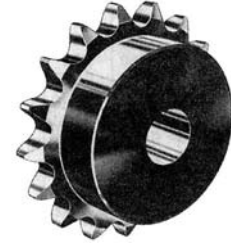
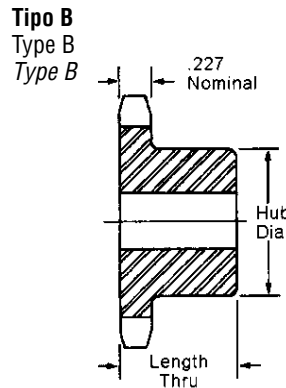
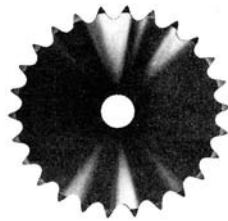
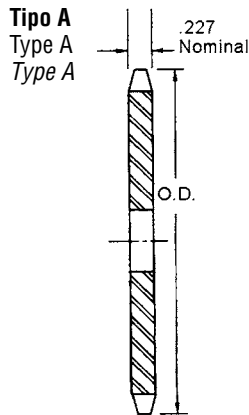
**Triple, tipo B / Triple - Type B / Triple - Type B**

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
13	35B3Z13	1.750	B	1/2	1 1/16	1 1/4	1 1/4	.50
14	35B3Z14	1.870	B	1/2	7/16	1 1/4	1 1/4	.62
15	35B3Z15	1.990	B	1/2	15/16	1 1/32	1 1/4	.78
16	35B3Z16	2.110	B	1/2	1 1/16	1 1/32	1 1/4	.82
17	35B3Z17	2.230	B	1/2	1 1/8	1 1/32	1 1/4	1.04
18	35B3Z18	2.350	B	1/2	1 1/8	1 1/32	1 1/4	1.22
19	35B3Z19	2.470	B	1/2	1 1/8	1 1/8	1 1/4	1.40
20	35B3Z20	2.590	B	3/4	1 1/8	1 1/8	1 1/4	1.50
21	35B3Z21	2.710	B	3/4	1 3/8	2 1/16	1 1/8	1.72
22	35B3Z22	2.830	B	3/4	1 1/4	2 3/16	1 1/8	1.96
23	35B3Z23	2.950	B	3/4	1 1/2	2 1/4	1 1/8	2.12
24	35B3Z24	3.070	B	3/4	1 1/2	2 1/4	1 1/8	2.26
25	35B3Z25	3.190	B	3/4	1 1/2	2 1/4	1 1/8	2.42
26	35B3Z26	3.310	B	3/4	1 1/2	2 1/2	1 1/8	2.78
30	35B3Z30	3.790	B	3/4	1 3/4	2 1/2	1 1/8	3.42
36	35B3Z36	4.510	B	3/4	1 3/4	2 1/2	1 1/8	4.52
42	35B3Z42	5.230	B	3/4	1 3/4	2 1/2	1 1/8	5.88
48	35B3Z48	5.950	B	3/4	1 3/4	2 1/2	1 1/8	7.42
52	35B3Z52	6.430	B	3/4	1 3/4	2 1/2	1 1/8	8.52
60	35B3Z60	7.380	B	3/4	1 3/4	2 1/2	1 1/8	11.22
68	35B3Z68	8.340	B	3/4	2 3/8	3 1/2	1 1/8	15.38
72	35B3Z72	8.810	B	3/4	2 3/8	3 1/2	1 1/8	17.34
76	35B3Z76	9.290	B	3/4	2 3/8	3 1/2	1 1/8	18.90
84	35B3Z84	10.250	B	3/4	2 3/8	3 1/2	1 1/8	22.82
95	35B3Z95	11.560	B	1	2 1/2	3 3/4	2 3/8	29.32
96	35B3Z96	11.680	B	1	2 1/2	3 3/4	2 3/8	30.06
102	35B3Z102	12.400	B	1	2 1/2	3 3/4	2 3/8	33.36

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 41 paso 1/2" / No. 41 pas 1/2" / No. 41 1/2" Pitch



Simple, tipo B / Simple - Type B / Single - Type B

Simple, tipo A / Simple - Type A / Single - Type A

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox.) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
6	41B1Z6	1.170	B	3/8	3/8	2 1/2	7/8	.07				
7	41B1Z7	1.340	B	3/8	3/8	3/4	7/8	.10				
8	41B1Z8	1.510	B	1/2	1/2	6 3/4	7/8	.19				
9	41B1Z9	1.670	B	1/2	3/8	1 1/8	7/8	.20				
10	41B1Z10	1.840	B	1/2	3/4	1 1/4	7/8	.27				
11	41B1Z11	2.000	B	1/2	7/8	1 1/8	7/8	.35				
12	41B1Z12	2.170	B	1/2	1 5/16	1 3/8	7/8	.44				
13	41B1Z13	2.330	B	1/2	1	1 1/8	7/8	.50				
14	41B1Z14	2.490	B	1/2	1 1/4	1 3/4	7/8	.57				
15	41B1Z15	2.650	B	1/2	1 3/8	1 7/8	7/8	.72	A	41A1Z15	5/8	.28
16	41B1Z16	2.810	B	5/8	1 1/8	2 1/4	7/8	.91	A	41A1Z16	5/8	.34
17	41B1Z17	2.980	B	5/8	1 1/2	2 3/4	1	1.09	A	41A1Z17	5/8	.36
18	41B1Z18	3.140	B	5/8	1 3/4	2 1/2	1	1.25	A	41A1Z18	5/8	.44
19	41B1Z19	3.300	B	5/8	1 3/4	2 3/2	1	1.49	A	41A1Z19	5/8	.46
20	41B1Z20	3.460	B	5/8	1 3/4	2 1/2	1	1.64	A	41A1Z20	5/8	.52
21	41B1Z21	3.620	B	5/8	1 3/4	2 1/2	1	1.81	A	41A1Z21	5/8	.60
22	41B1Z22	3.780	B	5/8	2	3	1	1.93	A	41A1Z22	5/8	.66
23	41B1Z23	3.940	B	5/8	2 1/4	3 1/4	1	2.25	A	41A1Z23	5/8	.72
24	41B1Z24	4.100	B	5/8	2 1/4	3 1/4	1	2.33	A	41A1Z24	5/8	.82
25	41B1Z25	4.260	B	5/8	2 1/4	3 1/4	1	2.46	A	41A1Z25	5/8	.88
26	41B1Z26	4.420	B	5/8	2 1/4	3 1/4	1	2.50	A	41A1Z26	5/8	.94
27	41B1Z27	4.580	B	5/8	2 1/4	3 1/4	1	2.56	A	41A1Z27	5/8	1.00
28	41B1Z28	4.740	B	5/8	2 1/4	3 1/4	1	2.64	A	41A1Z28	5/8	1.08
30	41B1Z30	5.060	B	5/8	2 1/4	3 1/4	1	2.80	A	41A1Z30	1 3/32	1.20
32	41B1Z32	5.380	B	5/8	2 1/4	3 1/4	1	2.96	A	41A1Z32	1 9/32	1.44
35	41B1Z35	5.860	B	5/8	2 3/8	3 1/4	1	3.12	A	41A1Z35	1 9/32	1.70
36	41B1Z36	6.020	B	5/8	2 3/8	3 1/4	1	3.32	A	41A1Z36	1 9/32	1.84
40	41B1Z40	6.650	B	3/4	2 3/8	3 1/4	1 1/8	4.06	A	41A1Z40	2 3/32	2.22
42	41B1Z42	6.970	B	3/4	2 3/8	3 1/2	1 1/8	4.10	A	41A1Z42	2 3/32	2.50
45	41B1Z45	7.450	B	3/4	2 3/8	3 1/2	1 1/8	4.18	A	41A1Z45	2 3/32	2.52
48	41B1Z48	7.930	B	3/4	2 3/8	3 1/2	1 1/8	4.92	A	41A1Z48	2 3/32	2.92
54	41B1Z54	8.890	B	3/4	2 3/8	3 1/2	1 1/8	5.68	A	41A1Z54	2 3/32	3.54
60	41B1Z60	9.840	B	3/4	2 3/8	3 1/2	1 1/8	6.78	A	41A1Z60	2 3/32	4.60
70	41B1Z70	11.430	B	3/4	2 3/8	4	1 1/8	9.54	A	41A1Z70	2 3/32	6.22
72	41B1Z72	11.750	B	3/4	2 3/8	4	1 1/8	9.64	A	41A1Z72	2 3/32	6.32
80	41B1Z80	13.030	B	3/4	2 3/8	4	1 1/8	11.54	A	41A1Z80	2 3/32	8.46

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

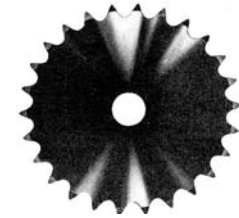
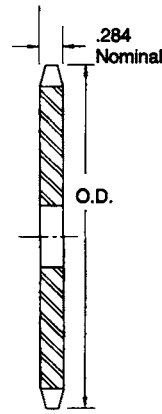
No. 40 paso 1/2" / No. 40 pas 1/2" / No. 40 1/2" Pitch

Simple, tipo B  
 Simple - Type B  
 Single - Type B

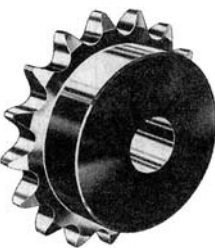
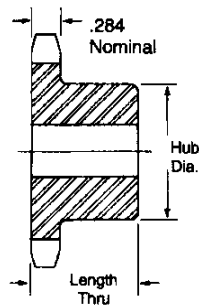
Simple, tipo A  
 Simple - Type A  
 Single - Type A

Tipo A  
 Type A  
 Type A

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox.) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox.) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diameter	Longitud int. Longueur int. Length Thru					
8	40B1Z8	1.500	B	1/2	1/2	3/8	1/8	.18				
9	40B1Z9	1.670	B	1/2	5/16	1 1/16	7/8	.20				
10	40B1Z10	1.840	B	1/2	3/4	1 1/4	7/8	.27				
11	40B1Z11	2.000	B	1/2	7/8	1 5/8	7/8	.35				
12	40B1Z12	2.170	B	1/2	1	1 9/16	7/8	.45	A	40A1Z12	1/2	.18
13	40B1Z13	2.330	B	1/2	1 1/16	1 1/8	7/8	.50	A	40A1Z13	1/2	.22
14	40B1Z14	2.490	B	1/2	1 1/8	1 1/4	7/8	.59	A	40A1Z14	1/2	.26
15	40B1Z15	2.650	B	1/2	1 1/4	1 5/8	7/8	.70	A	40A1Z15	5/8	.30
16	40B1Z16	2.810	B	5/8	1 3/8	2	1	.79	A	40A1Z16	3/8	.34
17	40B1Z17	2.980	B	5/8	1 1/2	2 1/8	1	1.04	A	40A1Z17	3/8	.36
18	40B1Z18	3.140	B	5/8	1 5/8	2 3/8	1	1.22	A	40A1Z18	3/8	.44
19	40B1Z19	3.300	B	5/8	1 3/4	2 1/2	1	1.43	A	40A1Z19	3/8	.46
20	40B1Z20	3.460	B	5/8	1 7/8	2 5/8	1	1.56	A	40A1Z20	3/8	.56
21	40B1Z21	3.620	B	5/8	1 7/8	2 3/4	1	1.73	A	40A1Z21	3/8	.58
22	40B1Z22	3.780	B	5/8	1 7/8	2 7/8	1	1.96	A	40A1Z22	3/8	.66
23	40B1Z23	3.940	B	5/8	2	3	1	2.13	A	40A1Z23	3/8	.72
24	40B1Z24	4.100	B	5/8	2 1/4	3 1/4	1	2.41	A	40A1Z24	3/8	.82
25	40B1Z25	4.260	B	5/8	2 1/4	3 3/4	1	2.54	A	40A1Z25	3/8	.88
26	40B1Z26	4.420	B	5/8	2 1/4	3 3/4	1	2.58	A	40A1Z26	3/8	.94
27	40B1Z27	4.580	B	5/8	2 1/4	3 3/4	1	2.66	A	40A1Z27	3/8	.98
28	40B1Z28	4.740	B	5/8	2 1/4	3 3/4	1	2.73	A	40A1Z28	3/8	1.10
29	40B1Z29	4.900	B	5/8	2 1/4	3 3/4	1	2.80	A	40A1Z29	1 3/16	1.22
30	40B1Z30	5.060	B	5/8	2 1/4	3 3/4	1	2.98	A	40A1Z30	1 3/16	1.26
31	40B1Z31	5.220	B	5/8	2 1/4	3 3/4	1	3.10	A	40A1Z31	1 3/16	1.40
32	40B1Z32	5.380	B	5/8	2 1/4	3 3/4	1	3.16	A	40A1Z32	1 3/16	1.48
33	40B1Z33	5.540	B	5/8	2 1/4	3 3/4	1	3.22	A	40A1Z33	1 3/16	1.56
34	40B1Z34	5.700	B	5/8	2 1/4	3 3/4	1	3.30	A	40A1Z34	1 3/16	1.64
35	40B1Z35	5.860	B	5/8	2 1/4	3 3/4	1	3.46	A	40A1Z35	1 3/16	1.70
36	40B1Z36	6.020	B	5/8	2 1/4	3 3/4	1	3.58	A	40A1Z36	1 3/16	1.84
37	40B1Z37	6.180	B	5/8	2 1/4	3 3/4	1	3.62	A	40A1Z37	1 3/16	1.92
38	40B1Z38	6.330	B	5/8	2 1/4	3 3/4	1	3.70	A	40A1Z38	1 3/16	2.00
39	40B1Z39	6.490	B	5/8	2 1/4	3 3/4	1	3.76	A	40A1Z39	1 3/16	2.02
40	40B1Z40	6.650	B	3/4	2 3/8	3 1/2	1 1/8	4.69	A	40A1Z40	2 3/16	2.22
41	40B1Z41	6.810	B	3/4	2 3/8	3 1/2	1 1/8	4.76	A	40A1Z41	2 3/16	2.42
42	40B1Z42	6.970	B	3/4	2 3/8	3 1/2	1 1/8	4.82	A	40A1Z42	2 3/16	2.50
43	40B1Z43	7.130	B	3/4	2 3/8	3 1/2	1 1/8	5.12	A	40A1Z43	2 3/16	2.80
44	40B1Z44	7.290	B	3/4	2 3/8	3 1/2	1 1/8	5.15	A	40A1Z44	2 3/16	2.85
45	40B1Z45	7.450	B	3/4	2 3/8	3 1/2	1 1/8	5.30	A	40A1Z45	2 3/16	3.15
46	40B1Z46	7.610	B	3/4	2 3/8	3 1/2	1 1/8	5.57	A	40A1Z46	2 3/16	3.26
47	40B1Z47	7.770	B	3/4	2 3/8	3 1/2	1 1/8	5.44	A	40A1Z47	2 3/16	3.32
48	40B1Z48	7.930	B	3/4	2 3/8	3 1/2	1 1/8	5.84	A	40A1Z48	2 3/16	3.22
49	40B1Z49	8.090	B	3/4	2 3/8	3 1/2	1 1/8	5.90	A	40A1Z49	2 3/16	3.44
50	40B1Z50	8.250	B	3/4	2 3/8	3 1/2	1 1/8	5.96	A	40A1Z50	2 3/16	3.62
51	40B1Z51	8.410	B	3/4	2 3/8	3 1/2	1 1/8	6.08	A	40A1Z51	2 3/16	3.94
52	40B1Z52	8.570	B	3/4	2 3/8	3 1/2	1 1/8	6.28	A	40A1Z52	2 3/16	4.08
53	40B1Z53	8.730	B	3/4	2 3/8	3 1/2	1 1/8	6.33	A	40A1Z53	2 3/16	4.04
54	40B1Z54	8.890	B	3/4	2 3/8	3 1/2	1 1/8	6.42	A	40A1Z54	2 3/16	4.44
55	40B1Z55	9.040	B	3/4	2 3/8	3 1/2	1 1/8	6.46	A	40A1Z55	2 3/16	4.54
56	40B1Z56	9.200	B	3/4	2 3/8	3 1/2	1 1/8	6.89	A	40A1Z56	2 3/16	4.84
57	40B1Z57	9.360	B	3/4	2 3/8	3 1/2	1 1/8	7.02	A	40A1Z57	2 3/16	5.00
58	40B1Z58	9.520	B	3/4	2 3/8	3 1/2	1 1/8	7.36	A	40A1Z58	2 3/16	5.12
59	40B1Z59	9.680	B	3/4	2 3/8	3 1/2	1 1/8	7.45	A	40A1Z59	2 3/16	5.30
60	40B1Z60	9.840	B	3/4	2 3/8	3 1/2	1 1/8	7.86	A	40A1Z60	2 3/16	5.48
70	40B1Z70	11.430	B	3/4	2 3/8	4	1 1/4	11.00	A	40A1Z70	2 3/16	7.24
72	40B1Z72	11.750	B	3/4	2 3/8	4	1 1/4	11.50	A	40A1Z72	2 3/16	7.74
80	40B1Z80	13.030	B	3/4	2 3/8	4	1 1/4	13.40	A	40A1Z80	2 3/16	10.20
84	40B1Z84	13.660	B	3/4	2 3/8	4	1 1/4	14.04	A	40A1Z84	2 3/16	10.07
96	40B1Z96	15.570	B	1	2 3/8	4	1 1/4	17.56	A	40A1Z96	1 1/8	12.15
112	40B1Z112	18.120	B	1	2 3/8	4	1 1/4	22.56	A	40A1Z112	1 5/8	20.00



Tipo B  
 Type B  
 Type B



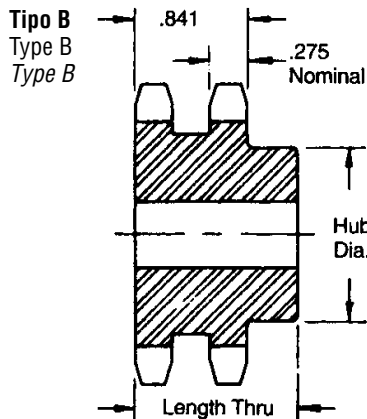
Material: C 45 Uni 7847  
 Matériau: C 45 Uni 7847  
 Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA)

## PIGNONS ET DISQUES NORME AMERICAINE (ASA)

### AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 40-2 paso 1/2" / No. 40-2 pas 1/2" / No. 40-2 1/2" Pitch



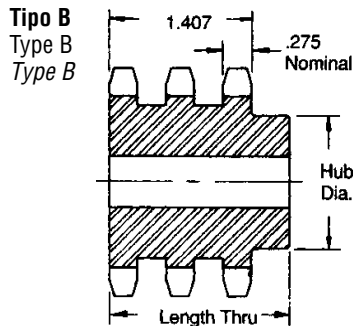
Doble, tipo B / Double - Type B / Double - Type B

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max.	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	40B2Z11	2.000	B	1/2	3/8	1 1/8	1 1/2	.62
12	40B2Z12	2.170	B	1/2	1 1/16	1 1/8	1 1/2	.76
13	40B2Z13	2.330	B	1/2	1	1 1/2	1 1/2	.86
14	40B2Z14	2.490	B	1/2	1 1/8	1 1/8	1 1/2	1.08
15	40B2Z15	2.650	B	1/2	1 1/4	1 3/8	1 1/2	1.24
16	40B2Z16	2.810	B	5/8	1 3/8	2	1 1/2	1.42
17	40B2Z17	2.980	B	5/8	1 7/8	2 1/8	1 1/2	1.64
18	40B2Z18	3.140	B	5/8	1 1/2	2 3/8	1 1/2	1.92
19	40B2Z19	3.300	B	5/8	1 3/4	2 1/2	1 1/2	2.22
20	40B2Z20	3.460	B	5/8	1 5/8	2 3/4	1 1/2	2.64
21	40B2Z21	3.620	B	5/8	1 5/8	2 3/4	1 1/2	2.94
22	40B2Z22	3.780	B	5/8	1 5/8	2 3/4	1 1/2	3.18
23	40B2Z23	3.940	B	5/8	2	3	1 1/2	3.51
24	40B2Z24	4.100	B	5/8	2 1/8	3 1/4	1 1/2	4.04
25	40B2Z25	4.260	B	5/8	2 1/8	3 1/4	1 1/2	4.26
26	40B2Z26	4.420	B	5/8	2 1/8	3 1/4	1 1/2	4.48
30	40B2Z30	5.060	B	7/8	2 1/4	3 1/4	1 1/2	5.34
35	40B2Z35	5.860	B	7/8	2 1/4	3 1/4	1 1/2	6.80
36	40B2Z36	6.020	B	1 1/16	2 1/2	3 3/4	1 1/2	7.20
40	40B2Z40	6.650	B	1 1/16	2 1/2	3 3/4	1 1/2	9.40
42	40B2Z42	6.970	B	1 1/16	2 1/2	3 3/4	1 1/2	10.20
45	40B2Z45	7.450	B	1 1/16	2 1/2	3 3/4	1 1/2	11.36
48	40B2Z48	7.930	B	1 1/16	2 1/2	3 3/4	1 1/2	12.66
52	40B2Z52	8.570	B	1 1/16	2 1/2	3 3/4	1 1/2	14.46
54	40B2Z54	8.890	B	1 1/16	2 1/2	3 3/4	1 1/2	15.48
60	40B2Z60	9.840	B	1 1/16	2 1/2	3 3/4	1 1/2	18.60
68	40B2Z68	11.120	B	1 3/16	2 3/4	4 1/4	2 1/2	24.96
72	40B2Z72	11.750	B	1 3/16	2 3/4	4 1/4	2 1/2	27.88
76	40B2Z76	12.390	B	1 3/16	2 3/4	4 1/4	2 1/2	30.18
84	40B2Z84	13.660	B	1 3/16	2 3/4	4 1/4	2 1/2	36.24
95	40B2Z95	15.410	B	1 3/16	2 3/4	4 1/4	2 1/2	38.84
96	40B2Z96	15.570	B	1 3/16	2 3/4	4 1/4	2 1/2	39.50
102	40B2Z102	16.530	B	1 3/16	2 3/4	4 1/4	2 1/2	42.72
112	40B2Z112	18.120	B	1 3/16	2 3/4	4 1/4	2 1/2	55.54

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

**PIÑONES Y DISCOS NORMA AMERICANA (ASA)**  
**PIGNONS ET DISQUES NORME AMERICAINE (ASA)**  
**AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)**

**No. 40-3 paso 1/2" / No. 40-3 pas 1/2" / No. 40-3 1/2" Pitch**



**Triple, tipo B / Triple - Type B / Triple - Type B**

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max.	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	40B3Z11	2.000	B	1/2	3/4	1 1/16	2 1/8	.80
12	40B3Z12	2.170	B	1/2	1 1/16	1 1/8	2 1/8	1.10
13	40B3Z13	2.330	B	1/2	1	1 1/2	2 1/8	1.24
14	40B3Z14	2.490	B	1/2	1 1/8	1 1/2	2 1/8	1.50
15	40B3Z15	2.650	B	1/2	1 1/4	1 3/8	2 1/8	1.76
16	40B3Z16	2.810	B	5/8	1 3/8	2	2 1/8	2.04
17	40B3Z17	2.980	B	5/8	1 7/8	2 1/8	2 1/8	2.34
18	40B3Z18	3.140	B	5/8	1 1/2	2 1/8	2 1/8	2.72
19	40B3Z19	3.300	B	5/8	1 3/4	2 1/2	2 1/8	3.10
20	40B3Z20	3.460	B	5/8	1 5/8	2 3/8	2 1/8	3.72
21	40B3Z21	3.620	B	5/8	1 5/8	2 3/4	2 1/8	4.06
22	40B3Z22	3.780	B	5/8	1 5/8	2 3/4	2 1/8	4.52
23	40B3Z23	3.940	B	5/8	2	3	2 1/8	4.96
24	40B3Z24	4.100	B	5/8	2 1/4	3 1/4	2 1/8	5.64
25	40B3Z25	4.260	B	5/8	2 1/4	3 1/4	2 1/8	6.02
26	40B3Z26	4.420	B	5/8	2 1/4	3 1/4	2 1/8	6.36
30	40B3Z30	5.060	B	7/8	2 1/4	3 1/4	2 1/8	7.84
35	40B3Z35	5.860	B	7/8	2 1/4	3 1/4	2 1/8	10.30
36	40B3Z36	6.020	B	1 1/16	2 1/2	3 3/4	2 3/8	11.72
42	40B3Z42	6.970	B	1 1/16	2 1/2	3 3/4	2 3/8	15.36
48	40B3Z48	7.930	B	1 1/8	2 1/2	3 3/4	2 3/8	19.36
52	40B3Z52	8.570	B	1 1/8	2 1/2	3 3/4	2 3/8	22.44
60	40B3Z60	9.840	B	1 1/8	2 1/2	3 3/4	2 3/8	30.02
68	40B3Z68	11.120	B	1 3/16	2 3/4	4	2 3/8	38.44
72	40B3Z72	11.750	B	1 3/16	2 3/4	4	2 3/8	42.46
76	40B3Z76	12.390	B	1 3/16	2 3/4	4	2 3/8	46.90
84	40B3Z84	13.660	B	1 3/8	2 3/4	4 1/4	2 3/8	57.30
95	40B3Z95	15.410	B	1 3/8	2 3/4	4 1/4	2 3/8	62.18
102	40B3Z102	16.530	B	1 3/8	2 3/4	4 1/4	2 3/8	68.40

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

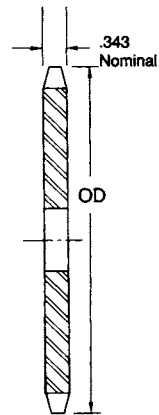
**No. 50 paso 5/8" / No. 50 pas 5/8" / No. 50 5/8" Pitch**

**Simple, tipo B**  
 Simple - Type B  
 Single - Type B

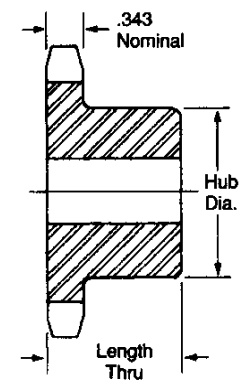
**Simple, tipo A**  
 Simple - Type A  
 Single - Type A

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diámetro Diameter	Longitud int. Longueur int. Length Thru					
8	50B1Z8	1.880	B	5/8	3/8	1 1/8	1	.25				
9	50B1Z9	2.090	B	5/8	3/4	1 3/8	1	.36				
10	50B1Z10	2.300	B	5/8	7/8	1 7/8	1	.48				
11	50B1Z11	2.500	B	5/8	1	1 3/4	1	.64				
12	50B1Z12	2.710	B	5/8	1 1/4	1 9/8	1	.83	A	50A1Z12	5/8	.34
13	50B1Z13	2.910	B	5/8	1 1/2	1 7/4	1	.88	A	50A1Z13	5/8	.42
14	50B1Z14	3.110	B	5/8	1 3/4	1 5/2	1	1.13	A	50A1Z14	5/8	.50
15	50B1Z15	3.320	B	5/8	1 7/8	1 3/2	1	1.34	A	50A1Z15	5/8	.54
16	50B1Z16	3.520	B	5/8	1 3/4	1 5/4	1	1.51	A	50A1Z16	5/8	.68
17	50B1Z17	3.720	B	5/8	1 7/8	1 3/2	1	1.74	A	50A1Z17	5/8	.76
18	50B1Z18	3.920	B	5/8	1 3/4	1 1/2	1	2.00	A	50A1Z18	5/8	.86
19	50B1Z19	4.120	B	5/8	2	1 3/4	1	2.22	A	50A1Z19	5/8	.94
20	50B1Z20	4.320	B	3/4	2	2	1	2.28	A	50A1Z20	3/4	1.06
21	50B1Z21	4.520	B	3/4	2	2	1	2.40	A	50A1Z21	3/4	1.12
22	50B1Z22	4.720	B	3/4	2	2	1	2.56	A	50A1Z22	3/4	1.30
23	50B1Z23	4.920	B	3/4	2	2	1	2.66	A	50A1Z23	3/4	1.44
24	50B1Z24	5.120	B	3/4	2	2	1 1/4	3.30	A	50A1Z24	2 3/32	1.50
25	50B1Z25	5.320	B	3/4	2	2	1 1/4	3.40	A	50A1Z25	2 3/32	1.62
26	50B1Z26	5.520	B	3/4	2	2	1 1/4	3.44	A	50A1Z26	2 3/32	1.72
27	50B1Z27	5.720	B	3/4	2	2	1 1/4	3.74	A	50A1Z27	2 3/32	1.96
28	50B1Z28	5.920	B	3/4	2	2	1 1/4	3.80	A	50A1Z28	2 3/32	2.04
29	50B1Z29	6.120	B	3/4	2	2	1 1/4	4.06	A	50A1Z29	2 3/32	2.36
30	50B1Z30	6.320	B	3/4	2 1/4	2 3/4	1 1/4	4.56	A	50A1Z30	2 3/32	2.54
31	50B1Z31	6.520	B	3/4	2 1/4	2 3/4	1 1/4	4.74	A	50A1Z31	2 3/32	2.80
32	50B1Z32	6.720	B	3/4	2 1/4	2 3/4	1 1/4	4.96	A	50A1Z32	2 3/32	2.72
33	50B1Z33	6.920	B	3/4	2 1/4	2 3/4	1 1/4	5.20	A	50A1Z33	2 3/32	3.14
34	50B1Z34	7.120	B	3/4	2 1/4	2 3/4	1 1/4	5.14	A	50A1Z34	2 3/32	3.20
35	50B1Z35	7.320	B	3/4	2 1/4	2 3/4	1 1/4	5.44	A	50A1Z35	2 3/32	3.34
36	50B1Z36	7.520	B	3/4	2 1/4	2 3/4	1 1/4	5.64	A	50A1Z36	2 3/32	3.82
37	50B1Z37	7.720	B	3/4	2 1/4	2 3/4	1 1/4	5.90	A	50A1Z37	2 3/32	3.98
38	50B1Z38	7.920	B	3/4	2 1/4	2 3/4	1 1/4	6.08	A	50A1Z38	2 3/32	4.14
39	50B1Z39	8.120	B	3/4	2 1/4	2 3/4	1 1/4	6.30	A	50A1Z39	2 3/32	4.42
40	50B1Z40	8.320	B	3/4	2 1/4	2 3/4	1 1/4	6.50	A	50A1Z40	2 3/32	4.46
41	50B1Z41	8.520	B	3/4	2 1/4	2 3/4	1 1/4	6.64	A	50A1Z41	2 3/32	4.86
42	50B1Z42	8.720	B	3/4	2 1/4	2 3/4	1 1/4	6.96	A	50A1Z42	2 3/32	4.98
43	50B1Z43	8.910	B	3/4	2 1/4	2 3/4	1 1/4	7.06	A	50A1Z43	2 3/32	5.24
44	50B1Z44	9.110	B	3/4	2 1/4	2 3/4	1 1/4	7.58	A	50A1Z44	2 3/32	5.42
45	50B1Z45	9.310	B	3/4	2 1/2	2 3/4	1 1/4	8.58	A	50A1Z45	2 3/32	5.92
46	50B1Z46	9.510	B	3/4	2 1/2	2 3/4	1 1/4	8.22	A	50A1Z46	1 5/16	6.42
47	50B1Z47	9.710	B	3/4	2 1/2	2 3/4	1 1/4	8.48	A	50A1Z47	1 5/16	6.50
48	50B1Z48	9.910	B	1	2 1/2	2 3/4	1 1/4	9.28	A	50A1Z48	1 5/16	6.58
49	50B1Z49	10.110	B	1	2 1/2	2 3/4	1 1/4	9.22	A	50A1Z49	1 5/16	7.06
50	50B1Z50	10.310	B	1	2 1/2	2 3/4	1 1/4	9.88	A	50A1Z50	1 5/16	7.10
51	50B1Z51	10.510	B	1	2 1/2	2 3/4	1 1/4	9.70	A	50A1Z51	1 5/16	7.32
52	50B1Z52	10.710	B	1	2 1/2	2 3/4	1 1/4	10.24	A	50A1Z52	1 5/16	7.98
53	50B1Z53	10.910	B	1	2 1/2	2 3/4	1 1/4	10.48	A	50A1Z53	1 5/16	8.08
54	50B1Z54	11.110	B	1	2 1/2	2 3/4	1 1/4	11.00	A	50A1Z54	1 5/16	8.30
55	50B1Z55	11.310	B	1	2 1/2	2 3/4	1 1/4	10.93	A	50A1Z55	1 5/16	8.56
56	50B1Z56	11.500	B	1	2 1/2	2 3/4	1 1/4	11.50	A	50A1Z56	1 5/16	8.90
57	50B1Z57	11.700	B	1	2 1/2	2 3/4	1 1/4	12.00	A	50A1Z57	1 5/16	9.38
58	50B1Z58	11.900	B	1	2 1/2	2 3/4	1 1/4	11.82	A	50A1Z58	1 5/16	10.30
59	50B1Z59	12.100	B	1	2 1/2	2 3/4	1 1/4	12.32	A	50A1Z59	1 5/16	10.50
60	50B1Z60	12.300	B	1	2 1/2	2 3/4	1 1/4	13.00	A	50A1Z60	1 5/16	10.80
70	50B1Z70	14.290	B	1	2 1/2	2 3/4	1 1/4	18.16	A	50A1Z70	1 5/16	14.00
72	50B1Z72	14.690	B	1	2 1/2	2 3/4	1 1/4	19.48	A	50A1Z72	1 5/16	15.24
76	50B1Z80	15.486	B	1	2 1/2	2 3/4	1 1/4	21.00	A	50A1Z80	1 5/16	20.28
80	50B1Z84	16.280	B	1	2 1/2	2 3/4	1 1/4	24.74	A	50A1Z84	1 5/16	21.00
84	50B1Z96	17.080	B	1	2 1/2	2 3/4	1 1/4	25.50	A	50A1Z96	1 5/16	22.08
95	50B1Z112	19.270	B	1	2 1/2	2 3/4	1 1/4	32.00	A	50A1Z112	1 5/16	27.00
96	50B96	19.470	B	1	2 1/2	2 3/4	1 1/4	32.92	A	50A96	1 5/16	27.40
112	50B112	22.650	B	1	2 1/2	2 3/4	1 1/4	42.00	A	50A112	1 5/16	37.70

**Tipo A**  
 Type A  
 Type A



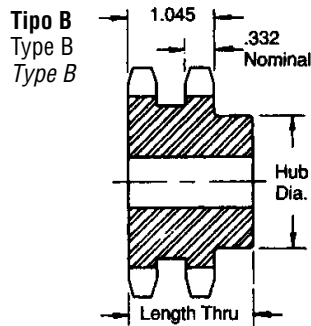
**Tipo B**  
 Type B  
 Type B



Material: C 45 Uni 7847  
 Matériau: C 45 Uni 7847  
 Material: C 45 Uni 7847

**PIÑONES Y DISCOS NORMA AMERICANA (ASA)**  
**PIGNONS ET DISQUES NORME AMERICAINE (ASA)**  
**AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)**

**No. 50-2 paso 5/8" / No. 50-2 pas 5/8" / No. 50-2 5/8" Pitch**



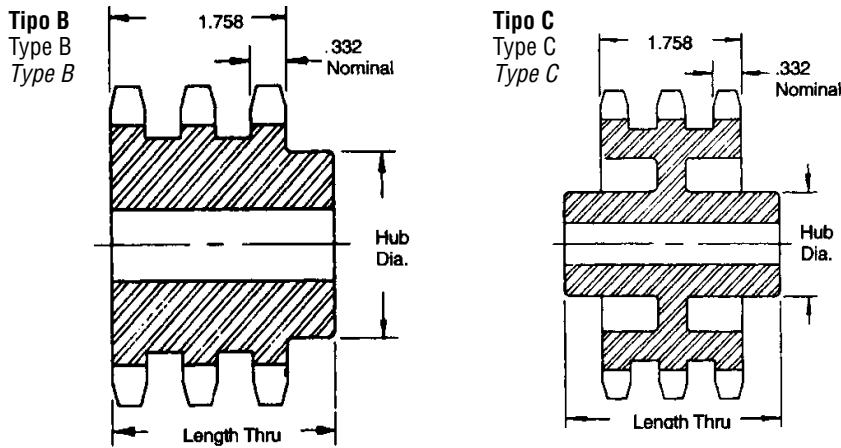
**Doble, tipo B / Double - Type B / Double - Type B**

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	50B2Z11	2.500	B	5/8	1 1/16	1 1/32	1 1/4	.96
12	50B2Z12	2.710	B	5/8	1 1/8	1 1/16	1 1/4	1.25
13	50B2Z13	2.910	B	5/8	1 1/8	1 1/8	1 1/4	1.56
14	50B2Z14	3.110	B	5/8	1 3/8	2 1/16	1 1/4	1.86
15	50B2Z15	3.320	B	3/4	1 1/2	2 3/16	1 1/4	2.22
16	50B2Z16	3.520	B	3/4	1 3/4	2 1/2	1 1/4	2.62
17	50B2Z17	3.720	B	3/4	1 7/8	2 1/2	1 1/4	3.04
18	50B2Z18	3.920	B	3/4	1 7/8	2 5/16	1 1/4	3.58
19	50B2Z19	4.120	B	1	2 1/8	3 3/8	1 1/4	3.90
20	50B2Z20	4.320	B	1	2 1/4	3 3/4	1 1/4	4.26
21	50B2Z21	4.520	B	1	2 3/8	3 1/2	1 1/4	4.90
22	50B2Z22	4.720	B	1	2 3/8	3 3/8	1 1/4	5.58
23	50B2Z23	4.920	B	1	2 1/2	3 3/8	1 1/4	6.10
24	50B2Z24	5.120	B	1	2 1/2	3 3/8	1 1/4	6.50
25	50B2Z25	5.320	B	1	2 1/2	3 3/8	1 1/4	6.94
26	50B2Z26	5.520	B	1	2 1/2	3 3/8	1 1/4	7.54
30	50B2Z30	6.320	B	1	2 3/4	3 3/4	1 1/4	9.40
32	50B2Z32	6.720	B	1	2 3/4	3 3/4	1 1/4	10.46
35	50B2Z35	7.320	B	1	2 3/4	3 3/4	1 1/4	12.28
36	50B2Z36	7.520	B	1 1/16	2 3/4	4	2 1/4	13.94
40	40B2Z40	8.320	B	1 1/16	2 3/4	4	2 1/4	16.54
42	50B2Z42	8.720	B	1 1/16	2 3/4	4	2 1/4	17.92
45	50B2Z45	9.310	B	1 1/16	2 3/4	4	2 1/4	20.30
48	50B2Z48	9.910	B	1 1/16	2 3/4	4 1/2	2 3/8	24.08
52	50B2Z52	10.710	B	1 1/16	2 3/4	4 1/2	2 3/8	27.42
54	50B2Z54	11.110	B	1 1/16	2 3/4	4 1/2	2 3/8	29.16
60	50B2Z60	12.300	B	1 1/16	3	4 1/2	2 3/8	35.88
68	50B2Z68	13.890	B	1 1/16	3	4 1/2	2 3/8	44.98
72	50B2Z72	14.690	B	1 1/16	3	4 1/2	2 3/8	50.22
76	50B2Z76	15.490	B	1 1/16	3	4 1/2	2 3/8	45.64
84	50B2Z84	17.080	B	1 1/16	3	4 1/2	2 3/8	51.64
95	50B2Z95	19.270	B	1 1/16	3	4 1/2	2 3/8	64.32
96	50B2Z96	19.470	B	1 1/16	3	4 1/2	2 3/8	67.42
102	50B2Z102	20.660	B	1 1/16	3	4 1/2	2 3/8	72.68
112	50B2Z112	22.650	B	1 1/16	3 1/16	5 1/4	2 3/8	90.22

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 50-3 paso 5/8" / No. 50-3 pas 5/8" / No. 50-3 5/8" Pitch



Triple, tipo B&C / Triple - Type B&C / Triple - Type B&C

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	50B3Z11	2.500	B	5/8	1 1/16	1 3/32	2 1/2	1.42
12	50B3Z12	2.710	B	5/8	1 1/8	1 1/8	2 1/2	1.84
13	50B3Z13	2.910	B	5/8	1 1/8	1 1/4	2 1/2	2.28
14	50B3Z14	3.110	B	5/8	1 3/8	2 1/16	2 1/2	2.72
15	50B3Z15	3.320	B	3/4	1 1/2	2 3/16	2 1/2	3.24
16	50B3Z16	3.520	B	3/4	1 3/4	2 1/2	2 1/2	3.76
17	50B3Z17	3.720	B	3/4	1 7/8	2 7/16	2 1/2	4.38
18	50B3Z18	3.920	B	3/4	1 7/8	2 7/8	2 1/2	5.10
19	50B3Z19	4.120	B	1	2 1/8	3 1/8	2 1/2	5.60
20	50B3Z20	4.320	B	1	2 1/4	3 1/4	2 5/8	6.42
21	50B3Z21	4.520	B	1	2 3/8	3 1/2	2 5/8	7.42
22	50B3Z22	4.720	B	1	2 3/8	3 5/8	2 5/8	7.92
23	50B3Z23	4.920	B	1	2 1/2	3 3/8	2 5/8	8.80
24	50B3Z24	5.120	B	1	2 1/2	3 3/8	2 5/8	9.42
25	50B3Z25	5.320	B	1	2 1/2	3 3/8	2 5/8	10.16
26	50B3Z26	5.520	B	1	2 1/2	3 3/4	2 5/8	11.02
30	50B3Z30	6.320	B	1	2 1/2	3 3/4	2 5/8	14.24
35	50B3Z35	7.320	B	1	2 1/2	3 3/4	2 5/8	18.96
36	50B3Z36	7.520	B	1 1/16	2 3/4	4	2 5/8	20.60
42	50B3Z42	8.720	B	1 1/8	2 3/4	4	2 3/4	27.46
48	50B3Z48	9.910	B	1 3/16	2 3/4	4	3 1/8	36.64
52	50B3Z52	10.710	B	1 3/16	2 3/4	4	3 1/8	42.54
60	50B3Z60	12.300	B	1 1/8	3	4 1/2	3 1/8	56.84
68	50B3Z68	13.890	B	1 1/8	3	4 1/2	3 1/8	73.21
72	50C3Z72	14.690	C	1 1/8	3	4 3/4	3 1/2	54.40
76	50C3Z76	15.490	C	1 1/8	3	4 3/4	3 1/2	51.20
84	50C3Z84	17.080	C	1 1/8	3	4 3/4	3 1/2	65.32
95	50C3Z95	19.270	C	1 3/8	3	4 3/4	3 3/4	74.42
102	50C3Z102	20.660	C	1 3/8	3	4 3/4	3 3/4	79.94

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

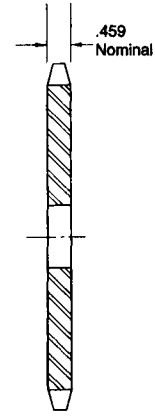
**No. 60 paso 3/4" / No. 60 pas 3/4" / No. 60 3/4" Pitch**

**Simple, tipo B**  
 Simple - Type B  
 Single - Type B

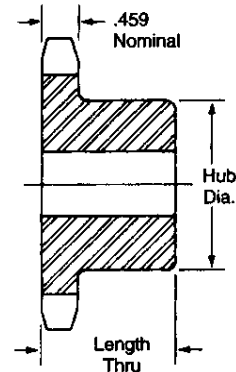
**Simple, tipo A**  
 Simple - Type A  
 Single - Type A

Nº de dientes N. de dents No. Teeth	Nº de catálogo Numéro de catalogue Catalog Number	Diám. exterior Diamètre ext. Outside Diameter	Tipo Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
8	60B1Z8	2.260	B	3/8	3/8	1 1/2	1 1/4	.54				
9	60B1Z9	2.510	B	3/8	7/8	1 9/16	1 1/4	.64				
10	60B1Z10	2.760	B	3/8	1 1/8	1 7/8	1 1/4	.99	A	60A1Z10	3/4	.44
11	60B1Z11	3.000	B	3/8	1 1/8	2 1/8	1 1/4	1.16	A	60A1Z11	3/4	.54
12	60B1Z12	3.250	B	3/8	1 1/8	2 3/8	1 1/4	1.47	A	60A1Z12	3/4	.68
13	60B1Z13	3.490	B	3/8	1 1/2	2 1/2	1 1/4	1.66	A	60A1Z13	3/4	.80
14	60B1Z14	3.740	B	3/8	1 1/2	2 5/8	1 1/4	2.00	A	60A1Z14	3/4	.94
15	60B1Z15	3.980	B	3/8	1 1/2	2 7/8	1 1/4	2.51	A	60A1Z15	3/4	1.08
16	60B1Z16	4.220	B	3/8	2	3 1/8	1 1/4	2.81	A	60A1Z16	3/4	1.24
17	60B1Z17	4.460	B	3/8	2 1/4	3 3/8	1 1/4	3.22	A	60A1Z17	3/4	1.44
18	60B1Z18	4.700	B	3/8	2 3/8	3 1/2	1 1/4	3.72	A	60A1Z18	3/4	1.62
19	60B1Z19	4.950	B	3/8	2 3/8	3 1/2	1 1/4	3.92	A	60A1Z19	3/4	1.84
20	60B1Z20	5.190	B	3/8	2 3/8	3 7/8	1 1/4	4.63	A	60A1Z20	3/4	2.12
21	60B1Z21	5.430	B	3/8	2 3/4	4	1 1/4	5.00	A	60A1Z21	3/4	2.28
22	60B1Z22	5.670	B	3/8	2 3/4	4	1 1/4	5.25	A	60A1Z22	3/4	2.48
23	60B1Z23	5.910	B	3/8	2 3/4	4	1 1/4	5.48	A	60A1Z23	3/4	2.68
24	60B1Z24	6.150	B	3/8	2 3/4	4	1 1/4	5.78	A	60A1Z24	23/32	3.00
25	60B1Z25	6.390	B	3/8	2 3/4	4	1 1/4	6.13	A	60A1Z25	23/32	3.34
26	60B1Z26	6.630	B	3/8	2 3/4	4	1 1/4	6.38	A	60A1Z26	23/32	3.54
27	60B1Z27	6.870	B	3/8	2 3/4	4	1 1/4	6.72	A	60A1Z27	23/32	3.96
28	60B1Z28	7.110	B	3/8	2 3/4	4	1 1/4	6.88	A	60A1Z28	23/32	4.14
29	60B1Z29	7.350	B	3/8	2 3/4	4	1 1/4	7.28	A	60A1Z29	23/32	4.40
30	60B1Z30	7.590	B	3/8	2 3/4	4	1 1/4	7.58	A	60A1Z30	23/32	4.78
31	60B1Z31	7.830	B	3/8	2 3/4	4	1 1/4	7.72	A	60A1Z31	23/32	5.24
32	60B1Z32	8.070	B	3/8	2 3/4	4	1 1/4	8.26	A	60A1Z32	23/32	5.52
33	60B1Z33	8.300	B	1	2 3/4	4	1 1/4	8.42	A	60A1Z33	15/16	5.86
34	60B1Z34	8.540	B	1	2 3/4	4	1 1/4	8.80	A	60A1Z34	15/16	6.16
35	60B1Z35	8.780	B	1	2 3/4	4	1 1/4	9.04	A	60A1Z35	15/16	6.78
36	60B1Z36	9.020	B	1	2 3/4	4	1 1/4	9.60	A	60A1Z36	15/16	6.82
37	60B1Z37	9.260	B	1	2 3/4	4	1 1/4	10.24	A	60A1Z37	15/16	7.52
38	60B1Z38	9.500	B	1	2 3/4	4 1/4	1 1/4	10.84	A	60A1Z38	15/16	7.84
39	60B1Z39	9.740	B	1	2 3/4	4 1/4	1 1/4	11.36	A	60A1Z39	15/16	8.28
40	60B1Z40	9.980	B	1	2 3/4	4 1/2	1 1/4	11.50	A	60A1Z40	15/16	8.56
41	60B1Z41	10.220	B	1	2 3/4	4 1/4	1 1/4	12.14	A	60A1Z41	15/16	9.10
42	60B1Z42	10.460	B	1	2 3/4	4 1/4	1 1/4	12.74	A	60A1Z42	15/16	9.84
43	60B1Z43	10.700	B	1	2 3/4	4 1/4	1 1/4	13.00	A	60A1Z43	15/16	9.74
44	60B1Z44	10.940	B	1 5/16	2 3/4	4 1/4	1 1/4	13.88	A	60A1Z44	15/16	10.76
45	60B1Z45	11.180	B	1 5/16	2 3/4	4 1/4	1 1/4	13.96	A	60A1Z45	15/16	11.08
46	60B1Z46	11.420	B	1 5/16	2 3/4	4 1/4	1 1/4	14.60	A	60A1Z46	15/16	11.50
47	60B1Z47	11.650	B	1 5/16	2 3/4	4 1/4	1 1/4	15.00	A	60A1Z47	15/16	12.32
48	60B1Z48	11.890	B	1 5/16	2 3/4	4 1/4	1 1/4	15.82	A	60A1Z48	15/16	12.42
49	60B1Z49	12.130	B	1 5/16	2 3/4	4 1/4	1 1/4	15.90	A	60A1Z49	15/16	12.92
50	60B1Z50	12.370	B	1 5/16	2 3/4	4 1/4	1 1/4	17.66	A	60A1Z50	15/16	13.98
51	60B1Z51	12.610	B	1 5/16	2 3/4	4 1/4	1 1/4	16.98	A	60A1Z51	15/16	14.58
52	60B1Z52	12.850	B	1 5/16	2 3/4	4 1/4	1 1/4	17.93	A	60A1Z52	15/16	14.60
53	60B1Z53	13.090	B	1 5/16	2 3/4	4 1/4	1 1/4	17.99	A	60A1Z53	15/16	15.84
54	60B1Z54	13.330	B	1 5/16	2 3/4	4 1/4	1 1/4	21.60	A	60A1Z54	15/16	15.92
55	60B1Z55	13.570	B	1 1/4	2 3/4	4 1/4	1 1/4	21.14	A	60A1Z55	1 1/4	16.96
56	60B1Z56	13.810	B	1 1/4	2 3/4	4 1/4	1 1/4	21.88	A	60A1Z56	1 1/4	17.60
57	60B1Z57	14.040	B	1 1/4	2 3/4	4 1/4	1 1/4	22.26	A	60A1Z57	1 1/4	17.62
58	60B1Z58	14.280	B	1 1/4	2 3/4	4 1/4	1 1/4	22.80	A	60A1Z58	1 1/4	19.00
59	60B1Z59	14.520	B	1 1/4	2 3/4	4 1/4	1 1/4	23.86	A	60A1Z59	1 1/4	19.20
60	60B1Z60	14.760	B	1 1/4	2 3/4	4 1/4	1 1/4	25.22	A	60A1Z60	1 1/4	20.02
64	60B1Z64	15.720	B	1 1/4	2 3/4	4 1/4	1 1/4	27.40	A	60A1Z64	1 1/4	23.00
65	60B1Z65	15.960	B	1 1/4	2 3/4	4 1/4	1 1/4	28.92	A	60A1Z65	1 1/4	23.24
66	60B1Z66		B	1 1/4	2 3/4	4 1/4	1 1/4		A	60A1Z66	1 1/4	24.42
68	60B1Z68	16.670	B	1 1/4	2 3/4	4 1/4	1 1/4	30.38	A	60A1Z68	1 1/4	25.54
70	60B1Z70	17.150	B	1 1/4	2 3/4	4 1/4	1 1/4	31.98	A	60A1Z70	1 1/4	27.20
72	60B1Z72	17.630	B	1 1/4	2 3/4	4 1/4	2	34.18	A	60A1Z72	1 1/4	28.90
76	60B1Z76	18.580	B	1 1/4	2 3/4	4 1/4	2	38.06	A	60A1Z76	1 1/4	32.34
80	60B1Z80	19.540	B	1 1/4	2 3/4	4 1/4	2	41.88	A	60A1Z80	1 1/4	45.50
84	60B1Z84	20.490	B	1 1/4	3 1/4	4 3/4	2	46.46	A	60A1Z84	1 1/4	40.18
90	60B1Z90	21.930	B	1 1/4	3 3/8	5	2 1/2	63.20	A	60A1Z90	1 1/4	43.44
96	60B1Z96	23.360	B	1 1/4	3 3/4	5 1/2	2 1/4	63.08	A	60A1Z96	1 1/4	52.02
112	60B1Z112	27.180	B	1 1/4	3 3/4	5 1/2	2 1/4	81.78	A	60A1Z112	1 1/4	70.80

**Tipo A**  
 Type A  
 Type A



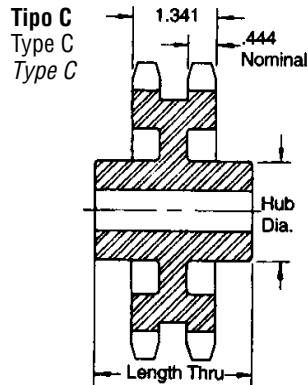
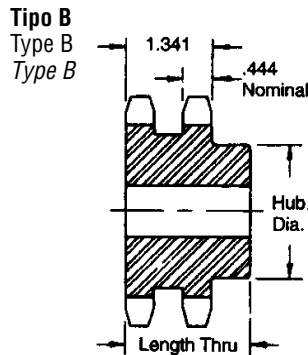
**Tipo B**  
 Type B  
 Type B



Material: C 45 Uni 7847  
 Matériau: C 45 Uni 7847  
 Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 60-2 paso 3/4" / No. 60-2 pas 3/4" / No. 60-2 3/4" Pitch



Doble, tipo B&C / Double - Type B&C / Double - Type B&C

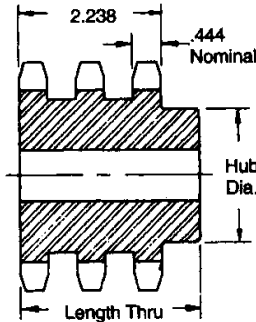
Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	60B2Z11	3.000	B	1	1 1/4	1 7/16	2 1/2	1.62
12	60B2Z12	3.250	B	1	1 1/4	2 1/8	2 1/2	2.20
13	60B2Z13	3.490	B	1	1 1/2	2 1/4	2 1/2	2.60
14	60B2Z14	3.740	B	1	1 3/4	2 1/2	2 1/2	3.24
15	60B2Z15	3.980	B	1	1 5/8	2 3/8	2 1/2	3.96
16	60B2Z16	4.220	B	1	2	3	2 1/2	4.62
17	60B2Z17	4.460	B	1	2 1/4	3 1/4	2 1/2	5.40
18	60B2Z18	4.700	B	1	2 3/8	3 1/2	2 1/2	6.24
19	60B2Z19	4.950	B	1	2 1/2	3 5/8	2 1/2	7.00
20	60B2Z20	5.190	B	1	2 1/2	3 3/4	2 1/2	7.72
21	60B2Z21	5.430	B	1	2 3/4	4 1/8	2 1/2	8.82
22	60B2Z22	5.670	B	1	2 3/4	4 1/4	2 1/2	9.68
23	60B2Z23	5.910	B	1	2 3/4	4 1/4	2 1/2	10.30
24	60B2Z24	6.150	B	1	2 3/4	4 1/4	2 1/2	11.14
25	60B2Z25	6.390	B	1	2 3/4	4 1/4	2 1/2	11.96
26	60B2Z26	6.630	B	1	2 3/4	4 1/4	2 1/2	12.70
30	60B2Z30	7.590	B	1	2 3/4	4 1/4	2 1/2	16.36
32	60B2Z32	8.070	B	1 1/4	3	4 1/2	2 1/2	19.52
35	60B2Z35	8.780	B	1 1/4	3	4 1/2	2 1/2	22.80
36	60B2Z36	9.020	B	1 1/4	3	4 1/2	2 1/2	23.82
40	40B2Z40	9.980	B	1 1/4	3 1/4	4 3/4	2 1/2	30.84
42	60B2Z42	10.460	B	1 1/4	3 1/4	4 3/4	2 1/2	33.08
45	60B2Z45	11.180	B	1 1/4	3 1/4	4 3/4	2 1/2	37.08
52	60B2Z52	12.850	B	1 1/4	3 1/4	4 3/4	2 1/2	48.70
60	60B2Z60	14.760	B	1 1/4	3 1/2	4 3/4	2 1/2	63.10
68	60C2Z68	16.670	C	1 1/4	3 3/8	5	3	53.68
72	60C2Z72	17.630	C	1 1/4	3 3/8	5	3	53.74
76	60C2Z76	18.580	C	1 1/4	3 3/8	5	3	60.28
95	60C2Z95	23.120	C	1 1/4	3 1/2	5 1/2	3 1/2	87.14

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

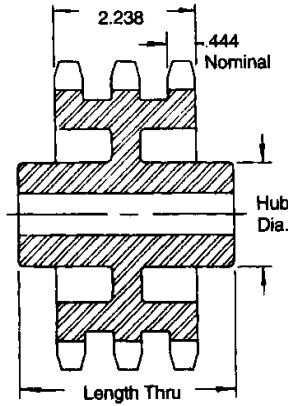
# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 60-3 paso 3/4" / No. 60-3 pas 3/4" / No. 60-3 3/4" Pitch

Tipo B  
Type B  
Type B



Tipo C  
Type C  
Type C



Triple, tipo B&C / Triple - Type B&C / Triple - Type B&C

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	60B3Z11	3.000	B	1	1¼	1¾ <sub>a</sub>	3	2.5
12	60B3Z12	3.250	B	1	1⅙	2⅙	3	3.3
13	60B3Z13	3.490	B	1	1½	2½	3	3.9
14	60B3Z14	3.740	B	1	1¾	2½	3	4.5
15	60B3Z15	3.980	B	1	1⅞	2¾ <sub>a</sub>	3	5.4
16	60B3Z16	4.220	B	1	2	3	3	6.5
17	60B3Z17	4.460	B	1	2¼	3¼	3	7.7
18	60B3Z18	4.700	B	1	2⅝	3½	3	8.5
19	60B3Z19	4.950	B	1	2½	3⅙ <sub>a</sub>	3	10.0
20	60B3Z20	5.190	B	1	2½	3¾	3	11.2
21	60B3Z21	5.430	B	1	2¾	4¼	3	12.5
22	60B3Z22	5.670	B	1	2¾	4¼	3	13.2
23	60B3Z23	5.910	B	1	2¾	4¼	3	14.6
24	60B3Z24	6.150	B	1	2¾	4¼	3	15.8
25	60B3Z25	6.390	B	1	2¾	4¼	3	17.0
26	60B3Z26	6.630	B	1	2¾	4¼	3	18.6
30	60B3Z30	7.590	B	1	2¾	4¼	3	23.2
35	60B3Z35	8.780	B	1¼	3	4½	3¼	34.5
36	60B3Z36	9.020	B	1¼	3	4½	3¼	37.0
42	60B3Z42	10.460	B	1¼	3¼	4¾	3¾	49.0
45	60B3Z45	11.180	B	1¼	3¼	4¾	3¾	57.0
52	60C3Z52	12.850	C	1¼	3¼	4¾	3½	73.0
60	60C3Z60	14.760	C	1¼	3¼	4¾	3½	63.0
68	60C3Z68	16.670	C	1¼	3¼	5	3½	73.0
72	60C3Z72	17.630	C	1¼	3¼	5	3½	85.0
76	60C3Z76	18.580	C	1½	3¾	5½	3½	82.0
95	60C3Z95	23.120	C	1½	3¾	5½	4	105.0

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

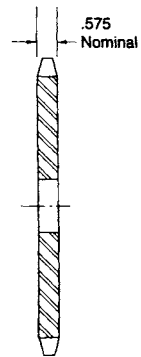
**No. 80 paso 1" / No. 80 pas 1" / No. 80 1" Pitch**

**Simple, tipo B**  
 Simple - Type B  
 Single - Type B

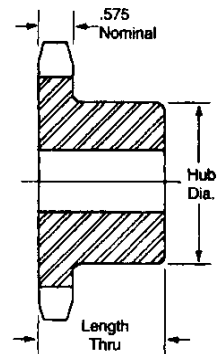
**Simple, tipo A**  
 Simple - Type A  
 Single - Type A

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. exterior Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
8	80B1Z8	3.010	B	1	1	1 1/16	1 1/8	1.4				
9	80B1Z9	3.350	B	1	1 1/16	2 1/4	1 1/8	1.6	A	80A1Z9	1 1/16	.8
10	80B1Z10	3.680	B	1	1 1/2	2 3/8	1 1/8	2.2	A	80A1Z10	1 1/8	1.0
11	80B1Z11	4.010	B	1	1 5/8	2 7/8	1 1/8	3.2	A	80A1Z11	1 1/8	1.3
12	80B1Z12	4.330	B	1	1 7/8	3 1/8	1 1/8	3.4	A	80A1Z12	1 1/8	1.5
13	80B1Z13	4.660	B	1	2	3	1 1/2	3.5	A	80A1Z13	1 1/8	1.8
14	80B1Z14	4.980	B	1	2 1/4	3 3/4	1 1/2	4.1	A	80A1Z14	1 1/8	2.2
15	80B1Z15	5.300	B	1	2 1/2	3 7/8	1 1/2	5.3	A	80A1Z15	1 1/8	2.5
16	80B1Z16	5.630	B	1	2 3/4	4	1 1/2	5.9	A	80A1Z16	1 1/8	2.9
17	80B1Z17	5.950	B	1	2 3/4	4	1 1/2	6.6	A	80A1Z17	1 1/8	3.3
18	80B1Z18	6.270	B	1	2 3/4	4 1/4	1 1/2	7.3	A	80A1Z18	1 1/8	3.7
19	80B1Z19	6.590	B	1	2 3/4	4 1/4	1 1/2	7.8	A	80A1Z19	1 1/8	4.1
20	80B1Z20	6.910	B	1	2 3/4	4 1/4	1 1/2	8.4	A	80A1Z20	1 1/8	4.7
21	80B1Z21	7.240	B	1	2 3/4	4 1/4	1 3/4	9.4	A	80A1Z21	1 1/8	4.9
22	80B1Z22	7.560	B	1	2 3/4	4 1/4	1 3/4	10.0	A	80A1Z22	1 1/8	5.5
23	80B1Z23	7.880	B	1	2 3/4	4 1/4	1 3/4	10.7	A	80A1Z23	1 1/8	6.3
24	80B1Z24	8.200	B	1	2 3/4	4 1/4	1 3/4	11.3	A	80A1Z24	1 1/8	6.7
25	80B1Z25	8.520	B	1	2 3/4	4 1/4	1 3/4	11.9	A	80A1Z25	1 1/8	7.2
26	80B1Z26	8.840	B	1 1/4	3 1/4	4 3/4	2	14.3	A	80A1Z26	1 1/8	7.8
27	80B1Z27	9.160	B	1 1/4	3 1/4	4 3/4	2	15.4	A	80A1Z27	1 1/8	8.6
28	80B1Z28	9.480	B	1 1/4	3 1/4	4 3/4	2	16.0	A	80A1Z28	1 1/8	9.3
29	80B1Z29	9.800	B	1 1/4	3 1/4	4 3/4	2	17.1	A	80A1Z29	1 1/8	9.8
30	80B1Z30	10.110	B	1 1/4	3 1/4	4 3/4	2	17.4	A	80A1Z30	1 1/8	10.7
31	80B1Z31	10.430	B	1 1/4	3 1/4	4 3/4	2	18.7	A	80A1Z31	1 1/8	11.3
32	80B1Z32	10.750	B	1 1/4	3 1/4	4 3/4	2	19.5	A	80A1Z32	1 1/8	12.1
33	80B1Z33	11.070	B	1 1/4	3 1/4	4 3/4	2	19.6	A	80A1Z33	1 1/8	13.6
34	80B1Z34	11.390	B	1 1/4	3 1/4	4 3/4	2	21.3	A	80A1Z34	1 1/8	14.3
35	80B1Z35	11.710	B	1 1/4	3 1/4	4 3/4	2	22.1	A	80A1Z35	1 1/8	14.8
36	80B1Z36	12.030	B	1 1/4	3 1/4	4 3/4	2	23.1	A	80A1Z36	1 1/8	16.1
37	80B1Z37	12.350	B	1 1/4	3 1/4	4 3/4	2	23.8	A	80A1Z37	1 1/8	16.8
38	80B1Z38	12.670	B	1 1/4	3 1/4	4 3/4	2	24.7	A	80A1Z38	1 1/8	17.2
39	80B1Z39	12.990	B	1 1/4	3 1/4	4 3/4	2	25.6	A	80A1Z39	1 1/8	17.9
40	80B1Z40	13.310	B	1 1/4	3 1/4	4 3/4	2	26.7	A	80A1Z40	1 1/8	18.9
41	80B1Z41	13.630	B	1 1/4	3 1/4	4 3/4	2	27.8	A	80A1Z41	1 1/4	21.0
42	80B1Z42	13.940	B	1 1/4	3 1/4	4 3/4	2	28.7	A	80A1Z42	1 1/4	21.8
43	80B1Z43	14.260	B	1 1/4	3 1/4	4 3/4	2	29.4	A	80A1Z43	1 1/4	23.6
44	80B1Z44	14.580	B	1 1/4	3 1/4	4 3/4	2	29.9	A	80A1Z44	1 1/4	24.3
45	80B1Z45	14.900	B	1 1/4	3 1/4	4 3/4	2	31.4	A	80A1Z45	1 1/4	25.2
46	80B1Z46	15.220	B	1 1/4	3 1/4	4 3/4	2	33.1	A	80A1Z46	1 1/4	26.6
47	80B1Z47	15.540	B	1 1/4	3 1/4	4 3/4	2	34.0	A	80A1Z47	1 1/4	26.4
48	80B1Z48	15.860	B	1 1/4	3 1/4	4 3/4	2	35.5	A	80A1Z48	1 1/4	27.8
49	80B1Z49	16.180	B	1 1/4	3 1/4	4 3/4	2	35.8	A	80A1Z49	1 1/4	28.9
50	80B1Z50	16.500	B	1 1/4	3 1/4	4 3/4	2	37.3	A	80A1Z50	1 1/4	30.9
51	80B1Z51	16.810	B	1 1/4	3 1/4	4 3/4	2	38.6	A	80A1Z51	1 1/4	32.2
52	80B1Z52	17.130	B	1 1/4	3 1/4	4 3/4	2	39.4	A	80A1Z52	1 1/4	33.0
53	80B1Z53	17.450	B	1 1/4	3 1/4	4 3/4	2	41.3	A	80A1Z53	1 1/4	34.9
54	80B1Z54	17.770	B	1 1/4	3 1/2	5 1/4	2	44.7	A	80A1Z54	1 1/4	36.6
55	80B1Z55	18.090	B	1 1/4	3 1/2	5 1/4	2	45.6	A	80A1Z55	1 1/4	37.5
56	80B1Z56	18.410	B	1 1/4	3 1/2	5 1/4	2	47.5	A	80A1Z56	1 1/4	39.4
57	80B1Z57	18.730	B	1 1/4	3 1/2	5 1/4	2	48.5	A	80A1Z57	1 1/4	40.4
58	80B1Z58	19.040	B	1 1/4	3 1/2	5 1/4	2	50.5	A	80A1Z58	1 1/4	41.3
59	80B1Z59	19.360	B	1 1/4	3 1/2	5 1/4	2	52.1	A	80A1Z59	1 1/4	42.9
60	80B1Z60	19.680	B	1 1/4	3 1/2	5 1/4	2	54.5	A	80A1Z60	1 1/4	45.3
65	80B1Z65	21.270	B	1 1/4	3 1/2	5 1/4	2	61.8	A	80A1Z65	1 1/4	52.2
70	80B1Z70	22.870	C	1 1/2	4 1/4	6 1/4	3 1/2	75.7	A	80A1Z70	1 1/2	59.8
72	80B1Z72	23.500	C	1 1/2	4 1/4	6 1/4	3 1/2	81.4	A	80A1Z72	1 1/2	65.7
76	80B1Z76	24.780	C	1 1/2	4 1/4	6 1/4	3 1/2	87.8	A	80A1Z76	1 1/2	70.2
80	80B1Z80	26.050	C	1 1/2	4 1/4	6 1/4	3 1/2	89.9	A	80A1Z80	1 1/2	79.6
84	80B1Z84	27.330	C	1 1/2	4 1/4	6 1/4	3 1/2	99.2	A	80A1Z84	1 1/2	86.1
90	80B1Z90	29.240	C	1 1/2	4 1/4	6 1/4	3 1/2	106	A	80A1Z90	1 1/2	101
96	80B1Z96	31.150	C	1 1/2	4 1/4	6 1/4	3 1/2	117	A	80A1Z96	1 1/2	120
112	80B1Z112	36.240	C	1 1/2	4 1/4	6 1/4	3 1/2	154	A	80A1Z112	1 1/2	165

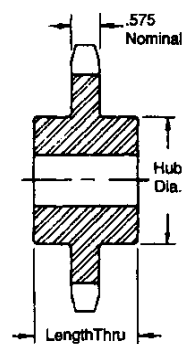
**Tipo A**  
 Type A  
 Type A



**Tipo B**  
 Type B  
 Type B



**Tipo C**  
 Type C  
 Type C

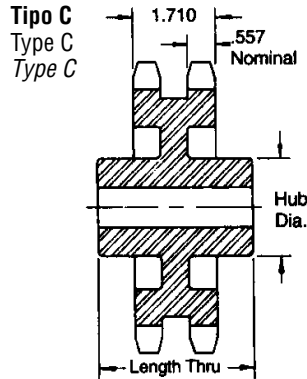
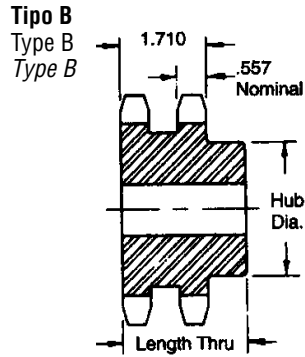


Material: C 45 Uni 7847  
 Matériau: C 45 Uni 7847  
 Material: C 45 Uni 7847

PIÑONES Y DISCOS NORMA AMERICANA (ASA) - PIGNONS ET DISQUES NORME AMERICAINE (ASA) - AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

**PIÑONES Y DISCOS NORMA AMERICANA (ASA)**  
**PIGNONS ET DISQUES NORME AMERICAINE (ASA)**  
**AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)**

**No. 80-2 paso 1" / No. 80-2 pas 1" / No. 80-2 1" Pitch**



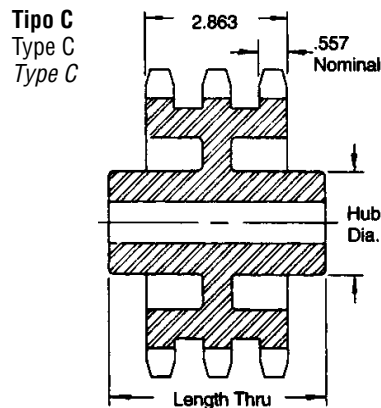
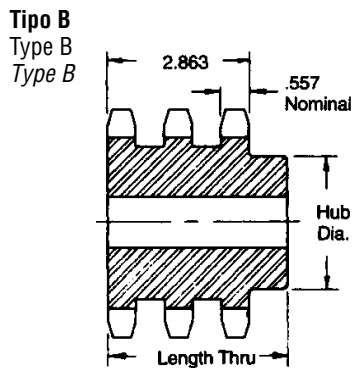
**Doble, tipo B&C / Double - Type B&C / Double - Type B&C**

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
10	80B2Z10	3.680	B	1	1½	2¼ <sub>16</sub>	2¼	3.6
11	80B2Z11	4.010	B	1	1¾	2½	2½	4.0
12	80B2Z12	4.330	B	1	1¾	2¾ <sub>2</sub>	2½	5.1
13	80B2Z13	4.660	B	1	2¼	3½ <sub>2</sub>	2½	6.3
14	80B2Z14	4.980	B	1	2¾	3½ <sub>2</sub>	2½	7.6
15	80B2Z15	5.300	B	1	2½	3¾ <sub>4</sub>	2½	9.0
16	80B2Z16	5.630	B	1	2¾	4	2¾	11.0
17	80B2Z17	5.950	B	1	3	4¾ <sub>8</sub>	2¾	13.2
18	80B2Z18	6.270	B	1	3¼	4¾ <sub>4</sub>	2¾	15.0
19	80B2Z19	6.590	B	1	3¾ <sub>8</sub>	5	2¾	17.0
20	80B2Z20	6.910	B	1	3¾ <sub>8</sub>	5	2¾	18.2
21	80B2Z21	7.240	B	1	3¾ <sub>8</sub>	5	2¾	19.6
22	80B2Z22	7.560	B	1	3¾ <sub>8</sub>	5	2¾	21.0
23	80B2Z23	7.880	B	1	3¾ <sub>8</sub>	5	2¾	22.8
24	80B2Z24	8.200	B	1	3½	5¼	2¾	25.1
25	80B2Z25	8.520	B	1	3½	5¼	3	28.3
26	80B2Z26	8.840	B	1	3½	5¼	3	29.9
30	80B2Z30	10.110	B	1¼	3¾	5¾	3	39.5
32	80B2Z32	10.750	B	1¼	3¾	5¾	3	43.8
35	80B2Z35	11.710	B	1¼	3¾	5¾	3	49.1
36	80B2Z36	12.030	B	1¼	3¾	5¾	3¾	54.2
42	80B2Z42	13.940	B	1¼	3¾	5¾	3¾	71.5
45	80B2Z45	14.900	B	1¼	3¾	5¾	3¾	73.5
52	80B2Z52	17.130	C	1½	3¾	5¾	3¾	78.4
60	80B2Z60	19.680	C	1½	3¾	5¾	3¾	93.3
68	80C2Z68	22.230	C	1½	3¾ <sub>8</sub>	6	4	96.2
76	80C2Z76	24.780	C	1½	3¾ <sub>8</sub>	6	4	113
95	80C2Z95	30.830	C	1½	4	6	4¼	165

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 80-3 paso 1" / No. 80-3 pas 1" / No. 80-3 1" Pitch



Triple, tipo B&C / Triple - Type B&C / Triple - Type B&C

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	80B3Z11	4.010	B	1	1¼	2½	3⅝	5.9
12	80B3Z12	4.330	B	1	1⅝	2⅞ <sub>32</sub>	3⅝	7.5
13	80B3Z13	4.660	B	1	2¼	3⅝ <sub>2</sub>	3⅝	9.2
14	80B3Z14	4.980	B	1	2⅝	3⅞ <sub>2</sub>	3⅝	11.0
15	80B3Z15	5.300	B	1	2½	3⅝ <sub>4</sub>	3⅝	13.1
16	80B3Z16	5.630	B	1	2¾	4	3⅝	15.8
17	80B3Z17	5.950	B	1	3	4⅞ <sub>4</sub>	3⅝	18.6
18	80B3Z18	6.270	B	1	3¼	4⅞ <sub>4</sub>	3⅝	21.2
19	80B3Z19	6.590	B	1	3⅝ <sub>16</sub>	5	3⅝	23.7
20	80B3Z20	6.910	B	1	3⅝ <sub>16</sub>	5	3⅝	26.0
21	80B3Z21	7.240	B	1	3⅝ <sub>16</sub>	5	3⅝	28.4
22	80B3Z22	7.560	B	1	3⅝ <sub>16</sub>	5	3⅝	31.0
23	80B3Z23	7.880	B	1	3⅝ <sub>16</sub>	5	3⅝	33.6
24	80B3Z24	8.200	B	1	3⅞	5¼	3⅝	37.1
25	80B3Z25	8.520	B	1	3⅞	5¼	3⅝	40.1
26	80B3Z26	8.840	B	1	3⅞	5¼	3⅝	42.9
30	80B3Z30	10.110	B	1¼	3¾	5¾	4¼	54.5
35	80B3Z35	11.710	B	1¼	3¾	5¾	4¼	79.5
36	80B3Z36	12.030	B	1¼	3¾	5¾	4¼	83.9
42	80C3Z42	13.940	C	1¼	3⅞ <sub>16</sub>	6	4½	84.9
45	80C3Z45	14.900	C	1¼	3⅞ <sub>16</sub>	6	4½	92.4
52	80C3Z52	17.130	C	1½	3⅞ <sub>16</sub>	6	4½	107
60	80C3Z60	19.680	C	1½	4¼	6¼	4¾	128
68	80C3Z68	22.230	C	1½	4¼	6¼	4¾	140
76	80C3Z76	24.780	C	1½	4¼	6¼	4¾	165
95	80C3Z95	30.830	C	1½	4½	6¾	5	240

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA)

## PIGNONS ET DISQUES NORME AMERICAINE (ASA)

### AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

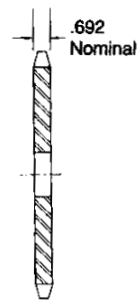
**No. 100 paso 1 1/4" / No. 100 pas 1 1/4" / No. 100 1 1/4" Pitch**

**Simple, tipo B&C**  
Simple - Type B&C  
Single - Type B&C

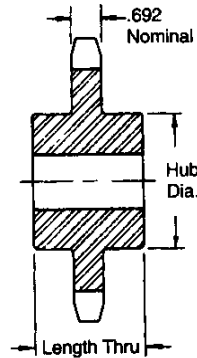
**Simple, tipo A**  
Simple - Type A  
Single - Type A

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. exterior Diamètre ext. Outside Diameter	Tipo Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
7		3.350							A	100A1Z7	1	1.2
8	100B1Z8	3.770	B	1	1 1/4	2 1/16	1 1/8	2.3	A	100A1Z8	1	1.4
9	100B1Z9	4.180	B	1	1 5/8	2 3/16	1 1/8	3.2	A	100A1Z9	1	1.6
10	100B1Z10	4.600	B	1	1 7/8	3 1/4	1 1/8	4.1	A	100A1Z10	1	2.0
11	100B1Z11	5.010	B	1	2 1/4	3 9/16	1 1/8	5.3	A	100A1Z11	1 1/4	2.5
12	100B1Z12	5.420	B	1	2 1/4	4	1 1/8	6.4	A	100A1Z12	1 1/4	3.0
13	100B1Z13	5.820	B	1	2 3/8	3 7/8	1 1/8	6.6	A	100A1Z13	1 1/4	3.5
14	100B1Z14	6.230	B	1 1/4	2 3/4	4 1/16	1 1/8	7.4	A	100A1Z14	1 1/4	4.1
15	100B1Z15	6.630	B	1 1/4	3	4 1/2	1 1/4	9.2	A	100A1Z15	1 1/4	4.7
16	100B1Z16	7.030	B	1 1/4	3	4 1/2	1 1/4	9.9	A	100A1Z16	1 1/4	5.4
17	100B1Z17	7.440	B	1 1/4	3	4 1/2	1 1/4	10.8	A	100A1Z17	1 1/4	6.1
18	100B1Z18	7.840	B	1 1/4	3	4 1/2	1 1/4	11.5	A	100A1Z18	1 1/4	7.0
19	100B1Z19	8.240	B	1 1/4	3	4 1/2	2	13.1	A	100A1Z19	1 1/4	7.8
20	100B1Z20	8.640	B	1 1/4	3	4 1/2	2	14.2	A	100A1Z20	1 1/4	8.8
21	100B1Z21	9.040	B	1 1/4	3	4 1/2	2	15.3	A	100A1Z21	1 1/4	9.8
22	100B1Z22	9.440	B	1 1/4	3	4 1/2	2	16.1	A	100A1Z22	1 1/4	10.5
23	100B1Z23	9.840	B	1 1/4	3	4 1/2	2	17.2	A	100A1Z23	1 1/4	11.8
24	100B1Z24	10.250	B	1 1/4	3	4 1/2	2	19.2	A	100A1Z24	1 1/4	12.8
25	100B1Z25	10.650	B	1 1/4	3	4 1/2	2	19.5	A	100A1Z25	1 1/4	13.9
26	100B1Z26	11.050	B	1 1/4	3 5/16	5	2	21.7	A	100A1Z26	1 1/4	15.0
27	100B1Z27	11.440	B	1 1/4	3 5/16	5	2	23.0	A	100A1Z27	1 1/4	16.0
28	100B1Z28	11.840	B	1 1/4	3 5/16	5	2	24.4	A	100A1Z28	1 1/4	17.4
29	100B1Z29	12.240	B	1 1/4	3 5/16	5	2	25.0	A	100A1Z29	1 1/4	19.6
30	100B1Z30	12.640	B	1 1/4	3 5/16	5	2	26.9	A	100A1Z30	1 1/4	20.1
31		13.040							A	100A1Z31	1 1/4	21.5
32	100B1Z32	13.440	B	1 1/4	3 5/16	5	2	29.8	A	100A1Z32	1 1/4	22.6
33		13.840							A	100A1Z33	1 1/4	24.1
34		14.240							A	100A1Z34	1 1/4	26.0
35	100B1Z35	14.640	B	1 1/4	3 5/16	5	2 1/2	36.9	A	100A1Z35	1 1/4	27.2
36	100B1Z36	15.040	B	1 1/4	3 5/16	5	2 1/2	38.6	A	100A1Z36	1 1/4	30.0
37		15.440							A	100A1Z37	1 1/4	31.0
38	100B1Z38	15.840	B	1 1/4	3 5/16	5	2 1/2	41.5	A	100A1Z38	1 1/4	33.0
39	100B1Z39	16.230	B	1 1/4	3 5/16	5	2 1/2	43.6	A	100A1Z39	1 1/4	35.0
40	100B1Z40	16.630	B	1 1/4	3 5/16	5	2 1/2	46.9	A	100A1Z40	1 1/4	36.0
41		17.030							A	100A1Z41	1 1/4	39.0
42	100B1Z42	17.430	B	1 1/4	3 5/16	5	2 1/2	50.4	A	100A1Z42	1 1/4	40.0
43		17.830							A	100A1Z43	1 1/2	43.0
44		18.230							A	100A1Z44	1 1/2	45.0
45	100B1Z45	18.630	B	1 1/2	3 5/16	5	2 1/2	54.0	A	100A1Z45	1 1/2	47.0
46		19.020							A	100A1Z46	1 1/2	48.0
47		19.420							A	100A1Z47	1 1/2	52.0
48	100B1Z48	19.820	B	1 1/2	4	6	2 1/2	66.0	A	100A1Z48	1 1/2	54.0
49		20.220							A	100A1Z49	1 1/2	56.0
50		20.620							A	100A1Z50	1 1/2	57.0
51		21.020							A	100A1Z51	1 1/2	63.0
52		21.420							A	100A1Z52	1 1/2	64.0
53		21.810							A	100A1Z53	1 1/2	64.2
54	100C1Z54	22.210	C	1 1/2	4	6	3 1/4	78.0	A	100A1Z54	1 1/2	68.0
55		22.610							A	100A1Z55	1 1/2	70.0
56		23.010							A	100A1Z56	1 1/2	72.0
57		23.410							A	100A1Z57	1 1/2	75.8
58		23.810							A	100A1Z58	1 1/2	76.0
59		24.200							A	100A1Z59	1 1/2	77.0
60	100C1Z60	24.600	C	1 1/2	4	6	3 1/4	89.0	A	100A1Z60	1 1/2	80.0
70	100C1Z70	28.580	C	1 1/2	5 1/4	7	3 1/4	125	A	100A1Z70	1 1/2	113
72	100C1Z72	29.380	C	1 1/2	5 1/4	7	3 1/4	134	A	100A1Z72	1 1/2	119
76	100C1Z76	30.973	C	1 1/2	5 1/4	7	3 1/4	143	A	100A1Z76	1 1/2	133
80	100C1Z80	32.570	C	1 1/2	5 1/4	7	3 1/4	151	A	100A1Z80	1 1/2	146
84	100C1Z84	34.160	C	1 1/2	5 1/4	7	3 1/4	170	A	100A1Z84	1 1/2	162
90	100C1Z90	36.550	C	1 1/2	5 1/4	7	3 1/4	184	A	100A1Z90	1 1/2	193
96	100C1Z96	38.930	C	1 1/2	5 1/4	7	4 1/2	203	A	100A1Z96	1 1/2	215

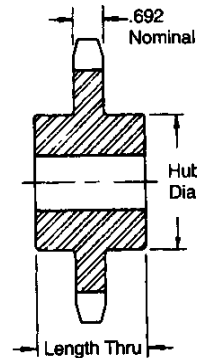
**Tipo A**  
Type A  
Type A



**Tipo B**  
Type B  
Type B



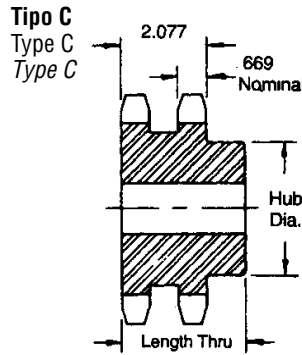
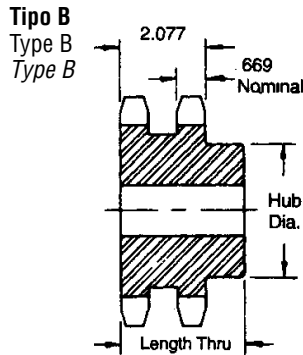
**Tipo C**  
Type C  
Type C



Material: C 45 Uni 7847  
Matériau: C 45 Uni 7847  
Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 100-2 paso 1 1/4" / No. 100-2 pas 1 1/4" / No. 100-2 1 1/4" Pitch



Doble, tipo B&C / Double - Type B&C / Double - Type B&C

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
9	100B2Z9	4.180	B	1	1 1/8	2 1/8	2 1/8	4.6
10	100B2Z10	4.600	B	1	1 1/8	2 1/4	2 1/8	6.2
11	100B2Z11	5.010	B	1	2 1/8	3 1/8	2 1/8	7.9
12	100B2Z12	5.420	B	1 1/8	2 1/4	3 3/8	2 1/8	9.3
13	100B2Z13	5.820	B	1 1/8	2 1/2	3 3/8	2 1/8	11.4
14	100B2Z14	6.230	B	1 1/8	2 3/4	4 1/8	2 1/8	13.6
15	100B2Z15	6.630	B	1 1/4	3 1/8	4 3/8	3 1/8	17.1
16	100B2Z16	7.030	B	1 1/4	3 3/16	5	3 1/8	20.1
17	100B2Z17	7.440	B	1 1/4	3 1/2	5 1/4	3 1/8	23.1
18	100B2Z18	7.840	B	1 1/4	3 1/2	5 1/4	3 1/8	25.4
19	100B2Z19	8.240	B	1 1/4	3 3/4	5 1/2	3 1/8	29.6
20	100B2Z20	8.640	B	1 1/4	3 3/4	5 1/2	3 1/8	32.4
21	100B2Z21	9.040	B	1 1/4	3 3/4	5 1/2	3 1/8	35.3
22	100B2Z22	9.440	B	1 1/4	3 3/4	5 1/2	3 1/8	38.4
23	100B2Z23	9.840	B	1 1/4	3 3/4	5 1/2	3 1/8	41.3
24	100B2Z24	10.250	B	1 1/4	3 3/4	5 1/4	3 1/8	45.1
25	100B2Z25	10.650	B	1 1/4	3 3/4	5 1/4	3 1/8	48.5
26	100B2Z26	11.050	B	1 1/2	3 3/4	5 3/4	3 1/8	51.5
30	100B2Z30	12.640	B	1 1/2	3 3/4	5 3/4	3 1/8	65.0
35	100C2Z35	14.640	C	1 1/2	3 13/16	6	4 1/4	75.0
45	100C2Z45	18.630	C	1 1/2	3 13/16	6	4 1/2	103
60	100C2Z60	24.600	C	1 1/2	5 3/8	7 1/2	5	175
70	100C2Z70	28.580	C	1 1/2	5 3/8	7 1/2	5	197
80	100C2Z80	32.570	C	1 1/2	5 3/8	7 1/2	5	231

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

PIÑONES Y DISCOS NORMA AMERICANA (ASA) - PIGNONS ET DISQUES NORME AMERICAINE (ASA) - AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

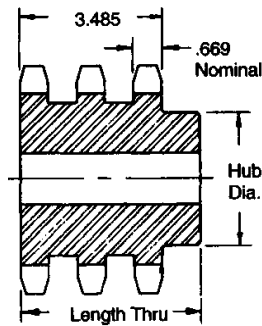
# PIÑONES Y DISCOS NORMA AMERICANA (ASA)

## PIGNONS ET DISQUES NORME AMERICAINE (ASA)

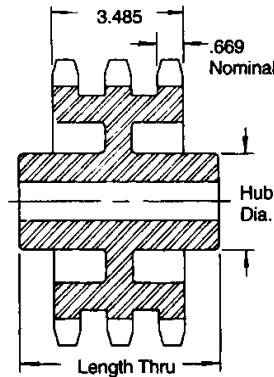
### AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 100-3 paso 1 1/4" / No. 100-3 pas 1 1/4" / No. 100-3 1 1/4" Pitch

Tipo B  
Type B  
Type B



Tipo C  
Type C  
Type C



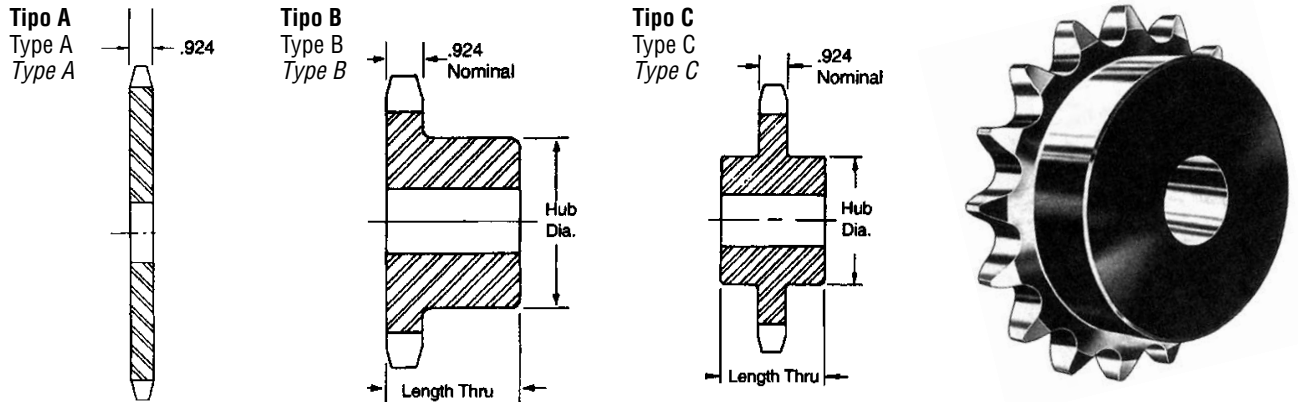
Triple, tipo B&C / Triple - Type B&C / Triple - Type B&C

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	100B3Z11	5.010	B	1	2 1/8	3 3/8	4 1/4	11.7
12	100B3Z12	5.420	B	1 1/8	2 1/4	3 3/8	4 1/4	13.7
13	100B3Z13	5.820	B	1 1/8	2 1/2	3 3/8	4 1/4	16.9
14	100B3Z14	6.230	B	1 1/8	2 3/4	4 1/8	4 1/4	20.2
15	100B3Z15	6.630	B	1 1/4	3 1/8	4 5/8	4 1/2	25.0
16	100B3Z16	7.030	B	1 1/4	3 1/8	5	4 1/2	29.3
17	100B3Z17	7.440	B	1 1/4	3 1/2	5 1/4	4 1/2	33.8
18	100B3Z18	7.840	B	1 1/4	3 1/2	5 1/4	4 3/4	38.6
19	100B3Z19	8.240	B	1 1/4	3 3/4	5 1/2	4 3/4	43.3
20	100B3Z20	8.640	B	1 1/4	3 3/4	5 1/2	4 3/4	47.9
21	100B3Z21	9.040	B	1 1/4	3 3/4	5 1/2	4 3/4	52.3
22	100B3Z22	9.440	B	1 1/4	3 3/4	5 1/2	4 3/4	57.5
23	100B3Z23	9.840	B	1 1/4	3 3/4	5 1/2	4 3/4	62.5
24	100B3Z24	10.250	B	1 1/4	3 3/4	5 3/4	4 3/4	69
25	100B3Z25	10.650	B	1 1/4	3 3/4	5 3/4	4 3/4	73
26	100B3Z26	11.050	B	1 1/2	3 13/16	5 3/4	4 3/4	79
30	100B3Z30	12.640	B	1 1/2	3 13/16	5 3/4	4 3/4	103
35	100C3Z35	14.640	C	1 1/2	4	6	5	108
45	100C3Z45	18.630	C	1 1/2	4	6	5	143
60	100C3Z60	24.600	C	1 1/2	5 3/8	7 1/2	5	217
70	100C3Z70	28.580	C	1 1/2	5 3/8	7 1/2	5	262
80	100C3Z80	32.570	C	1 1/2	5 3/8	7 1/2	5	313

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

**No. 120 paso 1 1/2" / No. 120 pas 1 1/2" / No. 120 1 1/2" Pitch**



Simple, tipo B&C / Simple - Type B&C / Single - Type B&C

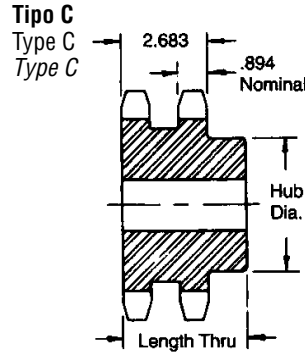
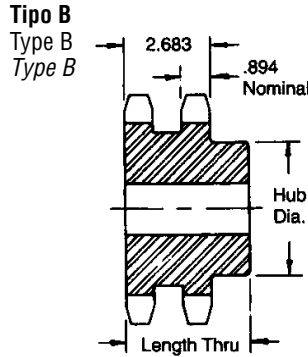
Simple, tipo A / Simple - Type A / Single - Type A

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diámetro exterior Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox.) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
8		4.520	B	1 3/8	1 3/16	3 3/8	2 1/4	5.3	A	120A1Z8	1 1/4	2.4
9	120B1Z9	5.020	B	1 3/8	2 1/4	3 3/4	2 1/4	7.1	A	120A1Z9	1 1/4	3.0
10	120B1Z10	5.520	B	1 3/8	2 3/8	3 3/4	2 1/8	7.6	A	120A1Z10	1 1/4	3.8
11	120B1Z11	6.010	B	1 3/8	2 3/8	3 3/4	2 1/8	7.6	A	120A1Z11	1 1/4	4.8
12	120B1Z12	6.500	B	1 3/8	2 3/4	4 1/8	2 1/4	9.9	A	120A1Z12	1 1/4	5.8
13	120B1Z13	6.990	B	1 3/8	3	4 3/8	2 1/4	12.4	A	120A1Z13	1 1/4	6.7
14	120B1Z14	7.470	B	1 3/8	3 1/4	4 3/4	2 1/4	14.4	A	120A1Z14	1 1/4	8.0
15	120B1Z15	7.960	B	1 1/4	3 3/4	4 3/4	2 3/8	16.7	A	120A1Z15	1 1/4	9.1
16	120B1Z16	8.440	B	1 1/4	3 3/2	5 1/4	2 3/8	19.9	A	120A1Z16	1 1/4	10.6
17	120B1Z17	8.920	B	1 1/4	3 3/2	5 1/4	2 3/8	20.8	A	120A1Z17	1 1/4	12.6
18	120B1Z18	9.410	B	1 1/4	3 3/2	5 1/4	2 3/8	22.2	A	120A1Z18	1 1/4	13.6
19	120B1Z19	9.890	B	1 1/4	3 3/2	5 1/4	2 3/8	24.8	A	120A1Z19	1 1/4	15.1
20	120B1Z20	10.370	B	1 1/4	3 3/2	5 1/4	2 3/8	25.8	A	120A1Z20	1 1/4	16.9
21	120B1Z21	10.850	B	1 1/4	3 3/2	5 1/4	2 3/8	26.7	A	120A1Z21	1 1/4	18.7
22	120B1Z22	11.330	B	1 1/4	3 3/2	5 1/4	2 3/8	28.2	A	120A1Z22	1 1/4	20.0
23	120B1Z23	11.810	B	1 1/4	3 3/2	5 1/4	2 3/8	30.3	A	120A1Z23	1 1/4	22.1
24	120B1Z24	12.290	B	1 1/4	3 3/2	5 1/4	2 3/8	32.1	A	120A1Z24	1 1/4	24.8
25	120B1Z25	12.770	B	1 1/4	3 3/2	5 1/4	2 3/8	34.6	A	120A1Z25	1 1/4	26.8
26	120B1Z26	13.250	B	1 1/2	4	6	2 1/2	40.0	A	120A1Z26	1 1/2	28.3
27		13.730							A	120A1Z27	1 1/2	30.9
28	120B1Z28	14.210	B	1 1/2	4	6	2 1/2	44.9	A	120A1Z28	1 1/2	33.6
30	120B1Z30	15.170	B	1 1/2	4	6	2 1/2	50.2	A	120A1Z30	1 1/2	39.0
32	120B1Z32	16.130	B	1 1/2	4	6	2 1/2	56.0	A	120A1Z32	1 1/2	43.9
33		16.610							A	120A1Z33	1 1/2	48.2
34		17.090							A	120A1Z34	1 1/2	50
35	120B1Z35	17.570	B	1 1/2	4	6	2 1/2	62.4	A	120A1Z35	1 1/2	52
36	120B1Z36	18.050	B	1 1/2	4	6	2 1/2	66.4	A	120A1Z36	1 1/2	56
40	120C1Z40	19.960	C	1 1/2	4	6	3 3/4	92.0	A	120C1Z40	1 1/2	71
42	120C1Z42	20.920	C	1 1/2	4	6	3 3/4	98.0	A	120C1Z42	1 1/2	75
45	120C1Z45	22.350	C	1 1/2	4	6	3 3/4	99.2	A	120C1Z45	1 1/2	88
48	120C1Z48	23.790	C	1 1/2	4	6	4	113	A	120C1Z48	1 1/2	103
54	120C1Z54	26.650	C	1 1/2	4	6	4	133	A	120C1Z54	1 1/2	140
60	120C1Z60	29.520	C	1 1/2	5 1/4	7	4	160	A	120C1Z60	1 1/2	160
70	120C1Z70	34.300	C	1 1/2	5 5/8	7 1/2	4 1/2	206	A	120C1Z70	1 1/2	216
80	120C1Z80	39.080	C	1 1/2	5 5/8	7 1/2	4 1/2	254	A	120C1Z80	1 1/2	284
90		43.850							A	120A1Z90	1 1/2	358

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

**PIÑONES Y DISCOS NORMA AMERICANA (ASA)**  
**PIGNONS ET DISQUES NORME AMERICAINE (ASA)**  
**AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)**

**No. 120-2 paso 1 1/2" / No. 120-2 pas 1 1/2" / No. 120-2 1 1/2" Pitch**



**Doble, tipo B&C / Double - Type B&C / Double - Type B&C**

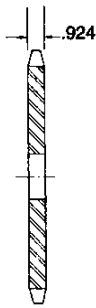
Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	120B2Z11	6.010	B	1½	2¾	3⅞	3¾	13.6
12	120B2Z12	6.500	B	1½	2¾	4⅞	3¾	17.3
13	120B2Z13	6.990	B	1½	3	4⅞	3¾	21.1
14	120B2Z14	7.470	B	1½	3⅞	5	3¾	25.6
15	120B2Z15	7.960	B	1½	3½	5¼	3¾	29.9
16	120B2Z16	8.440	B	1½	3½	5¼	3¾	33.8
17	120B2Z17	8.920	B	1½	3½	5¼	3¾	36.9
18	120B2Z18	9.410	B	1½	3½	5¼	3¾	41.9
19	120B2Z19	9.890	B	1½	3½	5¼	3¾	46.5
20	120B2Z20	10.370	B	1½	3½	5½	3¾	50.2
21	120B2Z21	10.850	B	1½	3½	5½	3¾	55.6
22	120B2Z22	11.330	B	1½	3⅞	5¾	4	64.0
23	120B2Z23	11.810	B	1½	4½	6½	4	75.0
24	120B2Z24	12.290	B	1½	4½	6½	4	79.0
25	120B2Z25	12.770	B	1½	4½	6½	4	84.0
26	120B2Z26	13.250	B	1½	4½	6½	4	90.0
30	120B2Z30	15.170	B	1½	4½	6½	4	119
35	120C2Z35	17.570	C	1½	5¾	7½	6	148
45	120C2Z45	22.350	C	1½	5¾	7½	6	188
60	120C2Z60	29.520	C	1½	6¾	9½	6¼	307

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

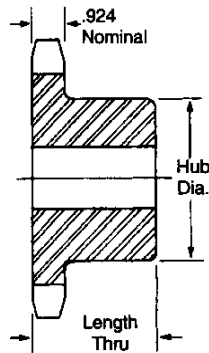
# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 140 paso 1 3/4" / No. 140 pas 1 3/4" / No. 140 1 3/4" Pitch

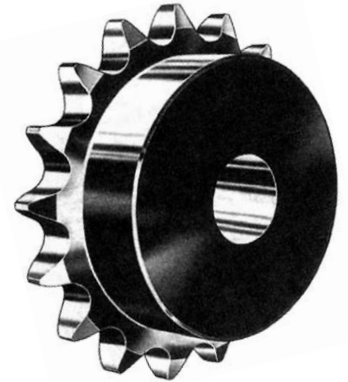
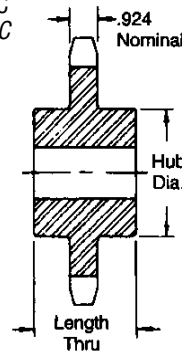
Tipo A  
Type A  
Type A



Tipo B  
Type B  
Type B



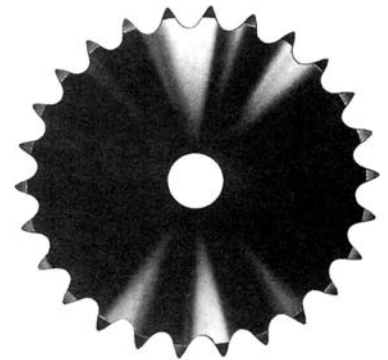
Tipo C  
Type C  
Type C



Simple, tipo B&C  
Simple - Type B&C  
Single - Type B&C

Simple, tipo A  
Simple - Type A  
Single - Type A

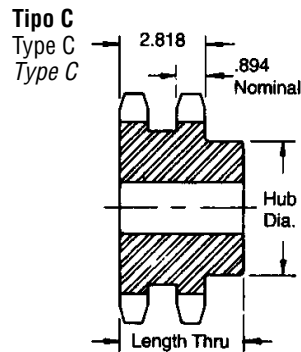
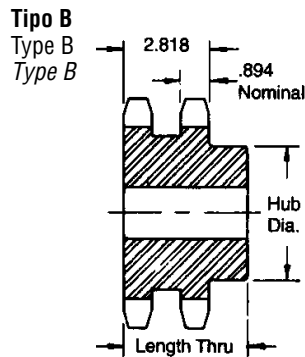
Nº de dientes N. de dents No. Teeth	Nº de catálogo Numéro de catalogue Catalog Number	Diám. exterior Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type Type	Nº de catálogo Numéro de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
11	140B1Z11	7.010	B	1 1/2	2 3/4	4 1/4	2 1/4	11.3	A	140A1Z11	1 1/2	5.0
12	140B1Z12	7.580	B	1 1/2	3	4 1/2	2 1/4	13.2	A	140A1Z12	1 1/2	7.8
13	140B1Z13	8.150	B	1 1/2	3 3/4	5 1/2	2 3/8	18.9	A	140A1Z13	1 1/2	8.2
14	140B1Z14	8.720	B	1 1/2	3 3/4	5 1/2	2 3/8	20.4	A	140A1Z14	1 1/2	10.0
15	140B1Z15	9.280	B	1 1/2	4 1/4	6 1/4	2 3/8	25.1	A	140A1Z15	1 1/2	11.0
16	140B1Z16	9.850	B	1 1/2	4 1/4	6 1/4	2 3/8	27.9	A	140A1Z16	1 1/2	14.0
17	140B1Z17	10.410	B	1 1/2	4 1/4	6 1/4	2 3/8	29.8	A	140A1Z17	1 1/2	16.0
18	140B1Z18	10.980	B	1 1/2	4 1/4	6 1/4	2 3/8	32.0	A	140A1Z18	1 1/2	18.0
19	140B1Z19	11.540	B	1 1/2	4 1/4	6 1/4	2 3/8	34.1	A	140A1Z19	1 1/2	21.0
20	140B1Z20	12.100	B	1 1/2	4 1/4	6 1/4	2 3/8	36.0	A	140A1Z20	1 1/2	23.0
21	140B1Z21	12.660	B	1 1/2	4 1/4	6 1/4	2 3/8	38.7	A	140A1Z21	1 1/2	25.0
22	140B1Z22	13.220	B	1 1/2	4 1/4	6 1/4	2 3/8	40.6	A	140A1Z22	1 1/2	28.0
23	140B1Z23	13.780	B	1 1/2	4 1/4	6 1/4	2 3/8	42.1	A	140A1Z23	1 1/2	30.0
24	140B1Z24	14.340	B	1 1/2	4 1/4	6 1/4	2 3/8	46.2	A	140A1Z24	1 1/2	33.0
25	140B1Z25	14.900	B	1 1/2	4 1/4	6 1/4	2 3/8	47.8	A	140A1Z25	1 1/2	34.0
26	140B1Z26	15.460	B	1 1/2	4 1/4	6 1/4	3	57.2	A	140A1Z26	1 1/2	39.0
27	140B1Z27	16.020	B	1 1/2	4 1/4	6 1/4	3	58.5	A	140A1Z27	1 1/2	41.0
28	140B1Z28	16.580	B	1 1/2	4 1/4	6 1/4	3	62.2	A	140A1Z28	1 1/2	45.0
30	140B1Z30	17.700	B	1 1/2	4 1/4	6 1/4	3	69.8	A	140A1Z30	1 1/2	52.0
31		18.260								140A1Z31	1 1/2	56.0
32	140B1Z32	18.820	B	1 1/2	4 1/4	6 1/4	3	76.3	A	140A1Z32	1 1/2	60.0
35	140B1Z35	20.490	C	1 1/2	5 1/4	7	4	108	A	140A1Z35	1 1/2	73.0
36		21.050							A	140A1Z36	1 1/2	77.0
40	140C1Z40	23.290	C	1 1/2	5 1/4	7	4	121	A	140A1Z40	1 1/2	93.0
45	140C1Z45	26.080	C	1 1/2	5 1/4	7	4	142	A	140A1Z45	1 1/2	131
48	140C1Z48	27.750	C	1 1/2	5 1/4	7	4	150	A	140A1Z48	1 1/2	134
54	140C1Z54	31.100	C	1 1/2	5 1/4	7	4	177	A	140A1Z54	1 1/2	173
60	140C1Z60	34.440	C	1 1/2	5 1/4	7	5	220	A	140A1Z60	1 1/2	219
70	140C1Z70	40.020	C	1 1/2	5 3/8	7 1/2	5	282	A	140A1Z70	1 1/2	292
80	140C1Z80	45.590	C	1 1/2	5 3/8	7 1/2	5	331	A	140A1Z80	1 1/2	402



Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

**PIÑONES Y DISCOS NORMA AMERICANA (ASA)**  
**PIGNONS ET DISQUES NORME AMERICAINE (ASA)**  
**AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)**

**No. 140-2 paso 1 3/4" / No. 140-2 pas 1 3/4" / No. 140-2 1 3/4" Pitch**



**Doble, tipo B&C / Double - Type B&C / Double - Type B&C**

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
13	140B2Z13	8.150	B	1/8	3/16	5	3/4	29
14	140B2Z14	8.720	B	1/8	3/4	5 1/2	3/4	34.8
15	140B2Z15	9.280	B	1/8	4 1/2	6 1/2	3/4	42.5
16	140B2Z16	9.850	B	1/8	5 1/4	7	4	48.1
17	140B2Z17	10.410	B	1/8	5 1/4	7	4	57.5
18	140B2Z18	10.980	B	1/4	5 1/4	7	4	65.6
19	140B2Z19	11.540	B	1/4	5 1/4	7	4	72.0
20	140B2Z20	12.100	B	1/4	5 1/4	7	4	76.0
21	140B2Z21	12.660	B	1/4	5 1/4	7	4	82.0
22	140B2Z22	13.220	B	1/4	5 1/4	7	4	94.0
23	140B2Z23	13.780	B	1/4	5 1/4	7	4	100
24	140B2Z24	14.340	B	1/4	5 1/4	7	4	104
25	140B2Z25	14.900	B	1/4	5 1/4	7	4	120
26	140B2Z26	15.460	B	1/4	5 1/4	7	4	128
35	140C2Z35	20.490	C	1/2	5 3/8	7 1/2	6	180
45	140C2Z45	26.080	C	1/2	5 3/8	7 1/2	6	232
60	140C2Z60	34.440	C	1/2	6 3/8	9 1/2	6 1/4	372

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

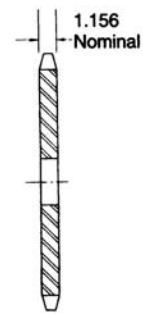
**No. 160 paso 2" / No. 160 pas 2" / No. 160 2" Pitch**

**Simple, tipo B&C**  
 Simple - Type B&C  
 Single - Type B&C

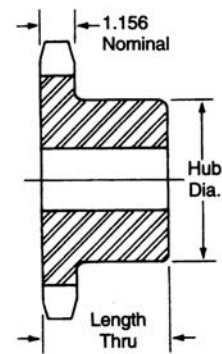
**Simple, tipo A**  
 Simple - Type A  
 Single - Type A

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. exterior Diamètre ext. Outside Diameter	Tipo Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
8	160B1Z8	6.030	B	1½	1⅞	3¼	2¼	8.0	A	160A1Z8	1½	5.0
9	160B1Z9	6.700	B	1½	2⅞	3⅝	2¼	10.0	A	160A1Z9	1½	7.0
10	160B1Z10	7.360	B	1½	2⅞	4⅞	2¼	12.0	A	160A1Z10	1½	8.0
11	160B1Z11	8.010	B	1½	3¼	4¾	2½	17.0	A	160A1Z11	1½	10.0
12	160B1Z12	8.660	B	1½	3⅞	5½	2½	21.0	A	160A1Z12	1½	12.0
13	160B1Z13	9.310	B	1½	4	6	2½	28.0	A	160A1Z13	1½	16.0
14	160B1Z14	9.960	B	1½	4½	6½	2¾	32.0	A	160A1Z14	1½	17.0
15	160B1Z15	10.610	B	1½	5¼	7	2¾	37.0	A	160A1Z15	1½	21.0
16	160B1Z16	11.260	B	1½	5¼	7	2¾	41.0	A	160A1Z16	1½	24.0
17	160B1Z17	11.900	B	1½	5¼	7	2¾	45.0	A	160A1Z17	1½	27.0
18	160B1Z18	12.540	B	1½	5¼	7	2¾	48.0	A	160A1Z18	1½	30.0
19	160B1Z19	13.190	B	1½	5¼	7	2¾	52.0	A	160A1Z19	1½	34.0
20	160B1Z20	13.830	B	1½	5¼	7	2¾	56.0	A	160A1Z20	1½	38.0
21	160B1Z21	14.470	B	1½	5¼	7	2¾	59.0	A	160A1Z21	1½	42.0
22	160B1Z22	15.110	B	1½	5¼	7	2¾	65.0	A	160A1Z22	1½	46.0
23	160B1Z23	15.750	B	1½	5¼	7	2¾	68.0	A	160A1Z23	1½	50.0
24	160B1Z24	16.390	B	1½	5¼	7	3	77.0	A	160A1Z24	1½	56.0
25	160B1Z25	17.030	B	1½	5¼	7	3	81.0	A	160A1Z25	1½	61.0
26	160B1Z26	17.670	B	1½	5¼	7	3	86.0	A	160A1Z26	1½	65.0
27	160B1Z27	18.310	B	1½	5¼	7	3	91.0	A	160A1Z27	1½	71.0
28	160B1Z28	18.950	B	1½	5¼	7	3	98.0	A	160A1Z28	1½	77.0
30	160B1Z30	20.230	B	1½	5¼	7	3	108	A	160A1Z30	1½	90.0
35	160C1Z35	23.420	C	1½	5½	8	4½	154	A	160A1Z35	1½	121
40	160C1Z40	26.610	C	1½	5½	8	4½	196	A	160A1Z40	1½	138
45	160C1Z45	29.800	C	1½	5½	8	5	234	A	160A1Z45	1½	204
54	160C1Z54	35.540	C	1½	5½	8	5	276	A	160A1Z54	1½	294
60	160C1Z60	39.360	C	1½	5½	8	5	329	A	160A1Z60	1½	366
70	160C1Z70	45.730	C	1½	5½	8	5	446	A	160A1Z70	1½	507
80	160C1Z80	52.100	C	1½	5½	8	6	612	A	160A1Z80	1½	656

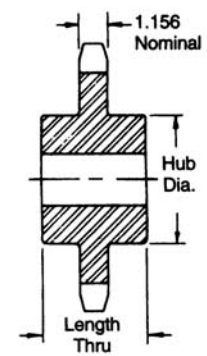
**Tipo A**  
 Type A  
 Type A



**Tipo B**  
 Type B  
 Type B

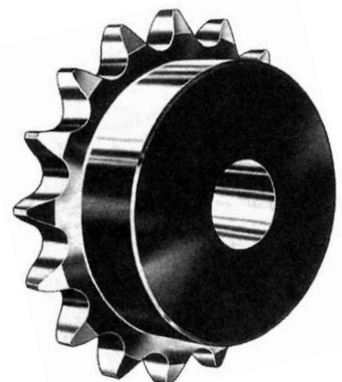


**Tipo C**  
 Type C  
 Type C



**Simple, tipo B&C**  
 Simple - Type B&C  
 Single - Type B&C

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. exterior Diamètre ext. Outside Diameter	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
			Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	160C1Z11	8.010	1½	3¼	4½	4⅞	21
12	160C1Z12	8.660	1½	3⅞	5½	4⅞	26



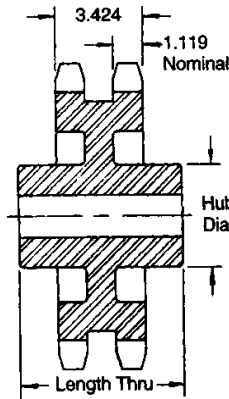
Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

PIÑONES Y DISCOS NORMA AMERICANA (ASA) - PIGNONS ET DISQUES NORME AMERICAINE (ASA) - AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

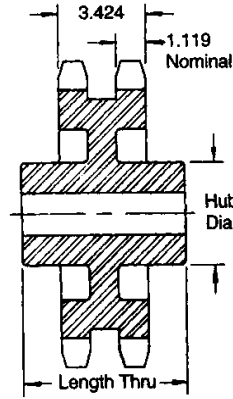
**PIÑONES Y DISCOS NORMA AMERICANA (ASA)**  
**PIGNONS ET DISQUES NORME AMERICAINE (ASA)**  
**AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)**

**No. 160-2 paso 2" / No. 160-2 pas 2" / No. 160-2 2" Pitch**

**Tipo B**  
Type B  
Type B



**Tipo C**  
Type C  
Type C



**Doble, tipo B&C / Double - Type B&C / Double - Type B&C**

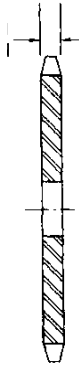
Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
13	160B2Z13	9.310	B	2	4	6	4 $\frac{1}{2}$	48
14	160B2Z14	9.960	B	2	4 $\frac{3}{4}$	6 $\frac{3}{4}$	4 $\frac{1}{2}$	58
15	160B2Z15	10.610	B	2	5 $\frac{1}{4}$	7	4 $\frac{3}{4}$	68
16	160B2Z16	11.260	B	2	5 $\frac{1}{2}$	7	4 $\frac{1}{2}$	75
17	160B2Z17	11.900	B	2	5 $\frac{1}{2}$	7	4 $\frac{1}{2}$	91
18	160B2Z18	12.540	B	2	5 $\frac{1}{4}$	7	4 $\frac{1}{2}$	96
19	160B2Z19	13.190	B	2	5 $\frac{1}{2}$	7	4 $\frac{1}{2}$	107
20	160B2Z20	13.830	B	2	5 $\frac{1}{2}$	7	4 $\frac{1}{2}$	119
21	160B2Z21	14.470	B	2	5 $\frac{3}{8}$	7 $\frac{1}{2}$	4 $\frac{1}{2}$	130
22	160B2Z22	15.110	B	2	5 $\frac{3}{8}$	7 $\frac{1}{2}$	4 $\frac{1}{2}$	141
23	160B2Z23	15.750	B	2	5 $\frac{3}{8}$	7 $\frac{1}{2}$	4 $\frac{1}{2}$	157
24	160B2Z24	16.390	B	2	5 $\frac{3}{8}$	7 $\frac{1}{2}$	4 $\frac{1}{2}$	171
25	160B2Z25	17.030	B	2	5 $\frac{3}{8}$	7 $\frac{1}{2}$	4 $\frac{1}{2}$	187
26	160B2Z26	17.670	B	2	5 $\frac{3}{8}$	7 $\frac{1}{2}$	4 $\frac{1}{2}$	201
35	160C2Z35	23.420	C	1 $\frac{1}{2}$	6 $\frac{3}{4}$	9 $\frac{1}{2}$	6 $\frac{1}{2}$	306
45	160C2Z45	29.800	C	1 $\frac{1}{2}$	7	10	7 $\frac{1}{8}$	431
60	160C2Z60	39.360	C	1 $\frac{1}{2}$	7	10	7 $\frac{1}{8}$	564

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

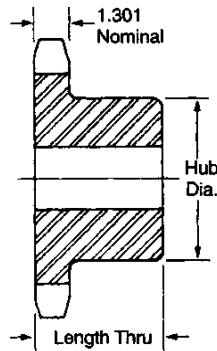
# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 180 paso 2 1/4" / No. 180 pas 2 1/4" / No. 180 2 1/4" Pitch

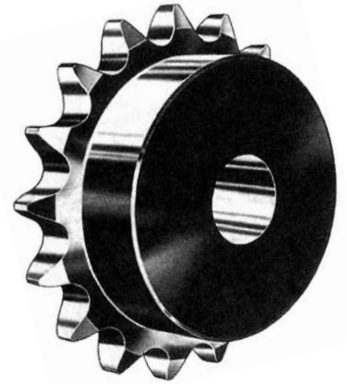
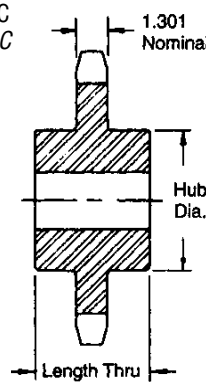
Tipo A  
Type A  
Type A



Tipo B  
Type B  
Type B



Tipo C  
Type C  
Type C



Simple, tipo B&C  
Simple - Type B&C  
Single - Type B&C

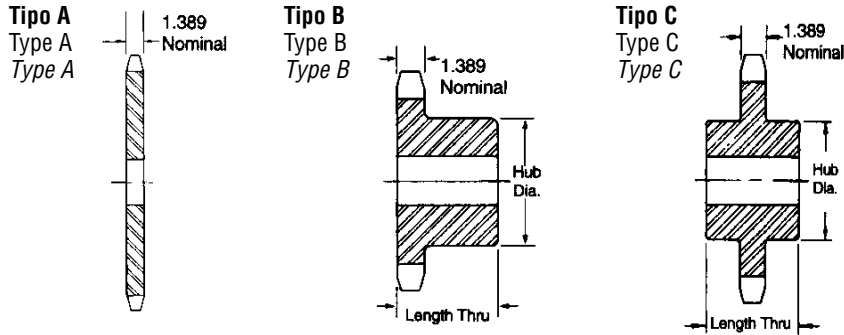
Simple, plato del tipo A  
Simple, plateau de type A  
Single - Type A- Plate

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. exterior Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
11	180B1Z11	9.010	B	1½	3⅝	5½	3	29	A	180A1Z11	1½	14
12	180B1Z12	9.750	B	1½	4	6	3	32	A	180A1Z12	1½	16
13	180B1Z13	10.480	B	1½	4⅝	6¾	3½	40	A	180A1Z13	1½	20
14	180B1Z14	11.210	B	1½	5¼	7	3½	44	A	180A1Z14	1½	24
15	180B1Z15	11.930	B	1½	5¼	7	3½	48	A	180A1Z15	1½	28
16	180B1Z16	12.660	B	1½	5¼	7	3½	52	A	180A1Z16	1½	32
17	180B1Z17	13.390	B	1½	5¼	7	3½	58	A	180A1Z17	1½	37
18	180B1Z18	14.110	B	1½	5¼	7	3½	63	A	180A1Z18	1½	43
19	180B1Z19	14.830	B	1½	5⅝	7½	3⅝	74	A	180A1Z19	1½	47
20	180B1Z20	15.560	B	1½	5⅝	7½	3⅝	81	A	180A1Z20	1½	53
21	180B1Z21	16.280	B	1½	5⅝	7½	3⅝	83	A	180A1Z21	1½	57
22	180B1Z22	17.000	B	1½	5⅝	7½	3⅝	92	A	180A1Z22	1½	62
23	180B1Z23	17.720	B	1½	5⅝	7½	3⅝	99	A	180A1Z23	1½	69
24	180B1Z24	18.440	B	1½	5⅝	7½	3⅝	105	A	180A1Z24	1½	77
25	180B1Z25	19.160	B	1½	5⅝	7½	3⅝	113	A	180A1Z25	1½	84
28	180B1Z28	21.320	B	1½	5½	8	3½	135	A	180A1Z28	1½	104
30	180C1Z30	22.760	C	1½	5¾	8½	4¾	180	A	180A1Z30	1½	120
35	180C1Z35	26.350	C	1½	5¾	8½	4¾	222	A	180A1Z35	1½	172
40	180C1Z40	29.940	C	1½	5¾	8½	4¾	270	A	180A1Z40	1½	229
45	180C1Z45	33.530	C	1½	6	9	5	315	A	180A1Z45	1½	284
54	180C1Z54	39.980	C	1½	6	9	5	477	A	180A1Z54	1½	420
60	180C1Z60	44.280	C	1½	6½	9½	5⅝	489	A	180A1Z60	1½	505

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 200 paso 2 1/2" / No. 200 pas 2 1/2" / No. 200 2 1/2" Pitch



Simple, tipo B&C  
 Simple - Type B&C  
 Single - Type B&C

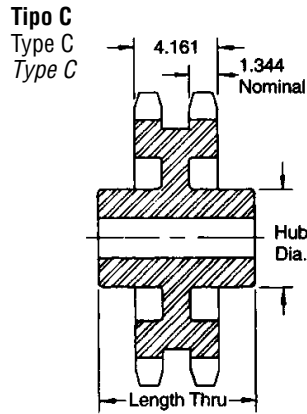
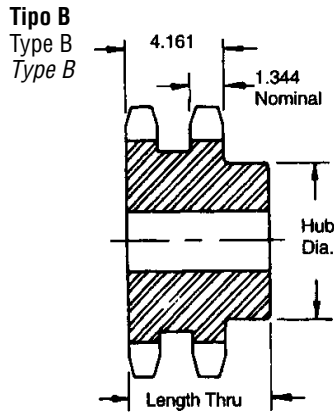
Simple, plato del tipo A  
 Simple, plateau de type A  
 Single - Type A - Plate

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. exterior Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type Type	Nº de catálogo Número de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
10	200B1Z10	9.200	B	1½	3¾	5½	3	26	A	200A1Z10	1½	16
11	200B1Z11	10.020	B	1½	4	6	3	33	A	200A1Z11	1½	20
12	200B1Z12	10.830	B	1½	4½	6½	3	37	A	200A1Z12	1½	24
13	200B1Z13	11.640	B	1½	5¼	7	3	46	A	200A1Z13	1½	30
14	200B1Z14	12.460	B	1½	5⅝	7½	3½	59	A	200A1Z14	1½	32
15	200B1Z15	13.260	B	1½	5⅝	7½	3½	64	A	200A1Z15	1½	40
16	200B1Z16	14.070	B	1½	5⅝	7½	3½	72	A	200A1Z16	1½	46
17	200B1Z17	14.870	B	1½	5⅝	7½	3½	76	A	200A1Z17	1½	51
18	200B1Z18	15.680	B	1½	5⅝	7½	3½	84	A	200A1Z18	1½	57
19	200B1Z19	16.480	B	1½	5⅝	7½	3½	91	A	200A1Z19	1½	65
20	200B1Z20	17.290	B	1½	5⅝	7½	3½	98	A	200A1Z20	1½	72
21	200B1Z21	18.090	B	1½	5⅝	7½	3½	106	A	200A1Z21	1½	82
22	200B1Z22	18.890	B	1½	5¾	8½	4	131	A	200A1Z22	1½	88
23	200B1Z23	19.690	B	1½	5¾	8½	4	136	A	200A1Z23	1½	95
24	200B1Z24	20.490	B	1½	5¾	8½	4	142	A	200A1Z24	1½	105
25	200B1Z25	21.290	B	1½	5¾	8½	4	153	A	200A1Z25	1½	113
26	200C1Z26	22.090	C	1½	5¾	8½	4½	178	A	200A1Z26	1½	124
28	200C1Z28	23.690	C	1½	5¾	8½	4½	195	A	200A1Z28	1½	144
30	200C1Z30	25.290	C	1½	5¾	8½	4½	212	A	200A1Z30	1½	167
32	200C1Z32	26.880	C	1½	5¾	8½	4½	220	A	200A1Z32	1½	195
35	200C1Z35	29.280	C	1½	5¾	8½	4½	254	A	200A1Z35	1½	227
40	200C1Z40	33.270	C	1½	6	9	5	320	A	200A1Z40	1½	301
45	200C1Z45	37.250	C	1½	6	9	5	364	A	200A1Z45	1½	390
54	200C1Z54	44.420	C	1½	6½	9½	5½	512	A	200A1Z54	1½	555
60	200C1Z60	49.200	C	1½	6½	9½	5½	654	A	200A1Z60	1½	692

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# PIÑONES Y DISCOS NORMA AMERICANA (ASA) PIGNONS ET DISQUES NORME AMERICAINE (ASA) AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)

No. 200-2 paso 2 1/2" / No. 200-2 pas 2 1/2" / No. 200-2 2 1/2" Pitch



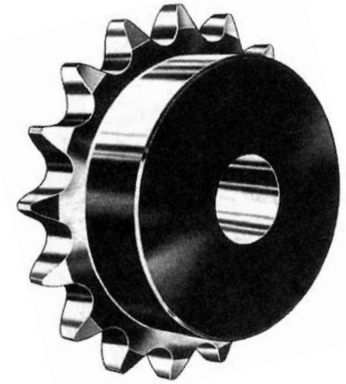
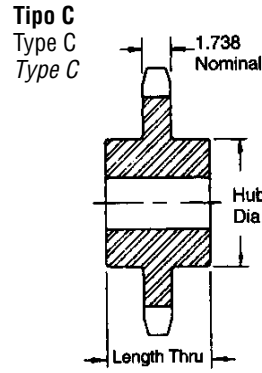
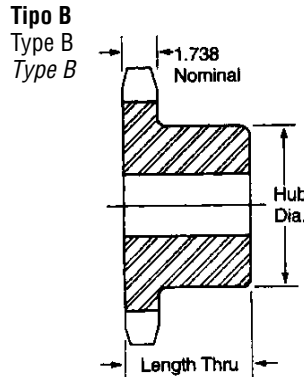
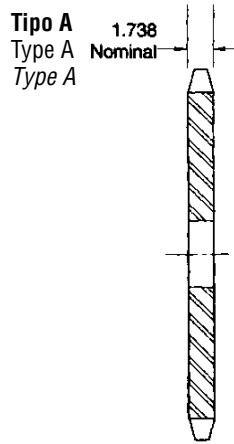
Doble, tipo B&C / Double - Type B&C / Double - Type B&C

Nº de dientes N. de dents No. Teeth	Nº de catálogo Número de catalogue Catalog Number	Diám. ext. Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru	
11	200B2Z11	10.020	B	2	3 3/4	5 1/2	5 5/8	57
12	200B2Z12	10.830	B	2	4 1/2	6 1/2	6 1/2	80
13	200B2Z13	11.640	B	2	5 1/4	7	6 3/8	96
14	200B2Z14	12.460	B	2	5 1/2	8	6 3/8	119
15	200B2Z15	13.260	B	2	5 3/4	8 1/2	6 3/8	138
16	200B2Z16	14.070	B	2	5 3/4	8 1/2	6 3/8	161
17	200B2Z17	14.870	B	2	5 3/4	8 1/2	6 3/8	178
18	200B2Z18	15.680	B	2	5 3/4	8 1/2	6 3/8	196
19	200B2Z19	16.480	B	2	5 3/4	8 1/2	6 3/8	217
20	200B2Z20	17.290	B	2	5 3/4	8 1/2	6 3/8	236
21	200B2Z21	18.090	B	2	5 3/4	8 1/2	6 3/8	250
22	200B2Z22	18.890	B	2	5 3/4	8 1/2	6 3/8	284
23	200B2Z23	19.690	B	2	5 3/4	8 1/2	6 3/8	308
24	200B2Z24	20.490	B	2	5 3/4	8 1/2	6 3/8	330
25	200B2Z25	21.290	B	2	5 3/4	8 1/2	6 3/8	358
26	200B2Z26	22.090	B	2	5 3/4	8 1/2	6 3/8	386
45	200C2Z45	37.250	C	1 1/2	7	10	8 1/2	665
60	200C2Z60	49.200	C	1 1/2	7	10	9	972

Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

**PIÑONES Y DISCOS NORMA AMERICANA (ASA)**  
**PIGNONS ET DISQUES NORME AMERICAINE (ASA)**  
**AMERICAN STANDARD SPROCKETS AND PLATE WHEELS (ASA)**

**No. 240 paso 3" / No. 240 pas 3" / No. 240 3" Pitch**



**Simple, tipo B&C**  
Simple - Type B&C  
Single - Type B&C

**Simple, plato del tipo A**  
Simple, plateau de type A  
Single - Type A - Plate

Nº de dientes N. de dents No. Teeth	Nº de catálogo Numéro de catalogue Catalog Number	Diám. exterior Diamètre ext. Outside Diameter	Tipo Type Type	Agujeros (pulgadas) Alésés (pouces) Bore (inches)		Buje (pulgadas) Moyeu (pouces) Hub (inches)		Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)	Tipo Type Type	Nº de catálogo Numéro de catalogue Catalog Number	Diám. int. estándar Diam. int. standard Stock Bore	Peso en libras (aprox) Poids en livres (environ) Weight Lbs. (Approx.)
				Estándar Standard Stock	Diám. int. máx. Diam. int. max. Rec. Max	Diámetro Diamètre Diameter	Longitud int. Longueur int. Length Thru					
10	240B1Z10	11.030	B	1½	4½	6½	3⅜	49	A	240A1Z10	1½	30
11	240B1Z11	12.020	B	1½	4¾	7	3⅞	66	A	240A1Z11	1½	37
12	240B1Z12	13.000	B	1½	5⅜	7½	3⅞	72	A	240A1Z12	1½	45
13	240B1Z13	13.970	B	1½	5⅝	7½	3⅞	81	A	240A1Z13	1½	54
14	240B1Z14	14.940	B	1½	5⅝	7½	3⅞	88	A	240A1Z14	1½	62
15	240B1Z15	15.910	B	1½	5⅝	7½	3⅞	98	A	240A1Z15	1½	68
16	240B1Z16	16.880	B	1½	5½	8	4⅞	120	A	240A1Z16	1½	82
17	240B1Z17	17.850	B	1½	5½	8	4⅞	137	A	240A1Z17	1½	93
18	240B1Z18	18.810	B	1½	5½	8	4⅞	142	A	240A1Z18	1½	108
19	240B1Z19	19.780	B	1½	5½	8	4⅞	154	A	240A1Z19	1½	120
20	240B1Z20	20.740	B	1½	5½	8	4⅞	169	A	240A1Z20	1½	128
21	240B1Z21	21.710	B	1½	5½	8	4⅞	186	A	240A1Z21	1½	148
25	240B1Z25	25.550	B	1½	5½	8	4⅞	254	A	240A1Z25	1½	208
30	240C1Z30	30.340	C	1½	6	9	6¼	398	A	240A1Z30	1½	310
35	240C1Z35	35.130	C	1½	6	9	6¼	527	A	240A1Z35	1½	416
40	240C1Z40	39.920	C	1½	7	10	6¾	672	A	240A1Z40	1½	548
45	240C1Z45	44.700	C	1½	7	10	6¾	850	A	240A1Z45	1½	702
54	240C1Z54	53.310	C	1½	7	10	6¾	1148	A	240A1Z54	1½	1022
60	240C1Z60	59.040	C	1½	7	10	6¾	1419	A	240A1Z60	1½	1268

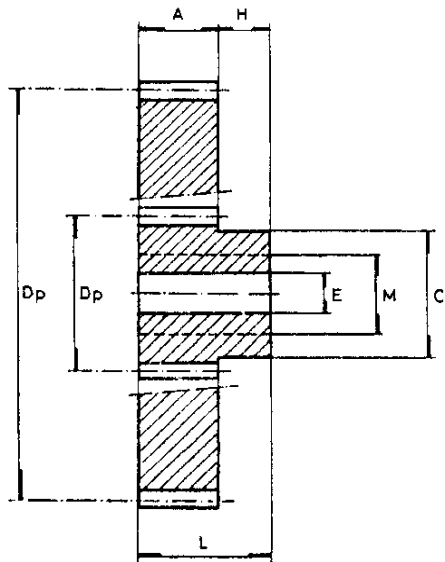
Material: C 45 Uni 7847 / Matériau: C 45 Uni 7847 / Material: C 45 Uni 7847

# ENGRANAJES CILÍNDRICOS NORMA EUROPEA (ISO)

## ENGRENAGES CYLINDRIQUES NORME EUROPÉENNE (ISO)

### EUROPEAN STANDARD SPUR GEARS (ISO)

**Módulo 1,5 / module 1,5 / modulo 1,5**



**Tipo "A" • Material: Acero F-114**  
**Bajo pedido pueden suministrarse en acero F-125 o F-154, tratados**

Type "A" • Matériel: Acier F-114  
 Il est possible de fournir en acier F-125 ou F-154 traités, sous commande

Type "A" • Material: Steel F-114  
 It is possible to supply in steel F-125 or F-154, treated under order

Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Tipo Type Type	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth length	Long. cubo Long. moyeux Hub length	Ancho total Larg. totale Total width	Peso Kg. Poids Kg. Weight Kg.
		Z	Dp		C	E	M	A	H	L	
ECR 1,5/ 12	1,5	12	18	A	13	6	8	15	10	25	0,034
ECR 1,5/ 15	1,5	15	22,5	A	17	6	10	15	10	25	0,06
ECR 1,5/ 20	1,5	20	30	A	25	8	15	15	10	25	0,11
ECR 1,5/ 25	1,5	25	37,5	A	30	8	18	15	10	25	0,175
ECR 1,5/ 30	1,5	30	45	A	30	8	18	15	10	25	0,230
ECR 1,5/ 35	1,5	35	52,5	A	35	8	20	15	10	25	0,310
ECR 1,5/ 40	1,5	40	60	A	40	8	24	15	10	25	0,420
ECR 1,5/ 45	1,5	45	67,5	A	50	10	30	15	10	25	0,560
ECR 1,5/ 50	1,5	50	75	A	50	10	30	15	10	25	0,660
ECR 1,5/ 55	1,5	55	82,5	A	60	12	35	15	10	25	0,830
ECR 1,5/ 60	1,5	60	90	A	60	12	35	15	10	25	0,950
ECR 1,5/ 65	1,5	65	97,5	A	60	12	35	15	10	25	1,080
ECR 1,5/ 70	1,5	70	105	A	60	12	35	15	10	25	1,220
ECR 1,5/ 75	1,5	75	112,5	A	60	12	35	15	10	25	1,370
ECR 1,5/ 80	1,5	80	120	A	60	12	35	15	10	25	1,530
ECR 1,5/ 85	1,5	85	127,5	A	60	12	35	15	10	25	1,700
ECR 1,5/ 90	1,5	90	135	A	60	12	35	15	10	25	1,885
ECR 1,5/ 95	1,5	95	142,5	A	60	12	35	15	10	25	2,075
ECR 1,5/ 100	1,5	100	150	A	70	15	40	15	10	25	2,350
ECR 1,5/ 105	1,5	105	157,5	A	70	15	40	15	10	25	2,550
ECR 1,5/ 110	1,5	110	165	A	70	15	40	15	10	25	2,785
ECR 1,5/ 115	1,5	115	172,5	A	70	15	40	15	10	25	30,10
ECR 1,5/ 120	1,5	120	180	A	70	15	40	15	10	25	3,260
ECR 1,5/ 127	1,5	127	190,5	A	70	15	40	15	10	25	3,610

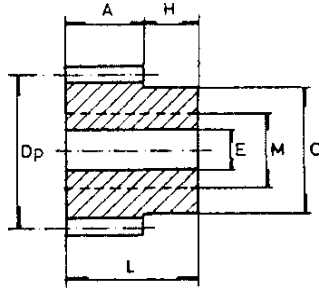
Medidas en mm. / Mesures en mm. / Sizes in mm.

# ENGRANAJES CILÍNDRICOS NORMA EUROPEA (ISO)

## ENGRENAGES CYLINDRIQUES NORME EUROPÉENNE (ISO)

### EUROPEAN STANDARD SPUR GEARS (ISO)

#### Módulo 2 / module 2 / modulo 2



Tipo "A" • Material: Acero F-114

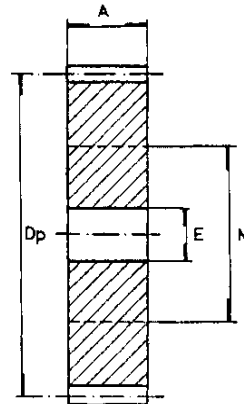
Bajo pedido pueden suministrarse en acero F-125 o F-154, tratados

Type "A" • Matériel: Acier F-114

Il est possible de fournir en acier F-125 ou F-154 traités, sous commande

Type "A" • Material: Steel F-114

It is possible to supply in steel F-125 or F-154, treated under order



Tipo "B" • Material: Acero F-114

Type "B" • Matériel: Acier F-114

Type "B" • Material: Steel F-114

Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Tipo Type Type	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth length	Long. cubo Long. moyeux Hub length	Ancho total Larg. totale Total width	Peso Kg. Poids Kg. Weight Kg.
		Z	Dp		C	E	M	A	H	L	
ECR 2/ 12	2	12	24	A	19	6	11	20	10	30	0,090
ECR 2/ 15	2	15	30	A	25	8	15	20	10	30	0,140
ECR 2/ 20	2	20	40	A	35	8	20	20	10	30	0,260
ECR 2/ 25	2	25	50	A	40	10	25	20	10	30	0,385
ECR 2/ 30	2	30	60	A	45	10	27	20	10	30	0,550
ECR 2/ 35	2	35	70	A	45	10	27	20	10	30	0,710
ECR 2/ 40	2	40	80	A	50	10	30	20	15	35	1,000
ECR 2/ 45	2	45	90	A	60	12	35	20	15	35	1,300
ECR 2/ 50	2	50	100	A	70	12	40	20	15	35	1,655
ECR 2/ 55	2	55	110	A	70	12	40	20	15	35	1,915
ECR 2/ 60	2	60	120	A	70	12	40	20	15	35	2,200
ECR 2/ 65	2	65	130	A	80	12	45	20	15	35	2,645
ECR 2/ 70	2	70	140	A	80	12	45	20	15	35	2,380
ECR 2/ 75	2	75	150	A	80	15	45	20	15	35	3,320
ECR 2/ 80	2	80	160	A	80	15	45	20	15	35	3,700
ECR 2/ 85	2	85	170	A	80	15	45	20	15	35	4,100
ECR 2/ 90	2	90	180	A	80	15	45	20	15	35	4,540
ECR 2/ 95	2	95	190	A	80	15	45	20	15	35	5,000
ECR 2/ 100	2	100	200	B	-	20	45	20	-	-	2,900
ECR 2/ 105	2	105	210	B	-	20	45	20	-	-	3,000
ECR 2/ 110	2	110	220	B	-	20	45	20	-	-	3,200
ECR 2/ 115	2	115	230	B	-	20	45	20	-	-	3,300
ECR 2/ 120	2	120	240	B	-	20	45	20	-	-	3,400
ECR 2/ 127	2	127	254	B	-	20	45	20	-	-	3,550

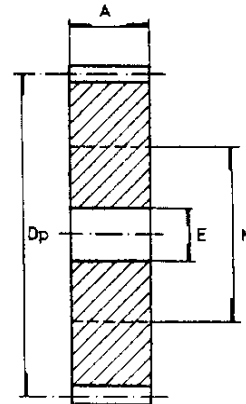
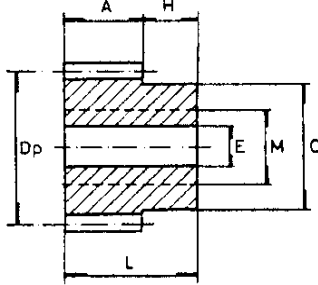
Medidas en mm. / Mesures en mm. / Sizes in mm.

# ENGRANAJES CILÍNDRICOS NORMA EUROPEA (ISO)

## ENGRENAGES CYLINDRIQUES NORME EUROPÉENNE (ISO)

### EUROPEAN STANDARD SPUR GEARS (ISO)

**Módulo 2,5 / module 2,5 / modulo 2,5**



**Tipo "A" • Material: Acero F-114**

Bajo pedido pueden suministrarse en acero F-125 o F-154, tratados

Type "A" • Matériel: Acier F-114

Il est possible de fournir en acier F-125 ou F-154 traités, sous commande

Type "A" • Material: Steel F-114

It is possible to supply in steel F-125 or F-154, treated under order

**Tipo "B" • Material: Acero F-114**

Type "B" • Matériel: Acier F-114

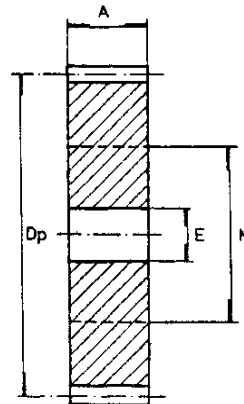
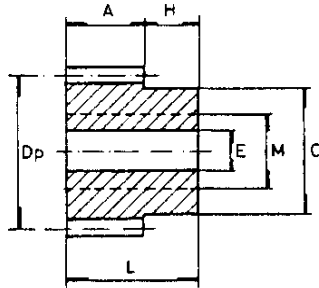
Type "B" • Material: Steel F-114

Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Tipo Type Type	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth length	Long. cubo Long. moyeux Hub length	Ancho total Larg. totale Total width	Peso Kg. Poids Kg. Weight Kg.
		Z	Dp		C	E	M	A	H	L	
ERC 2,5/ 12	2,5	12	30	A	24	8	14	25	10	35	0,160
ERC 2,5/ 15	2,5	15	37,5	A	30	10	18	25	10	35	0,250
ERC 2,5/ 20	2,5	20	50	A	40	10	24	25	10	35	0,460
ERC 2,5/ 25	2,5	25	62,5	A	50	10	30	25	15	40	0,800
ERC 2,5/ 30	2,5	30	75	A	60	12	35	25	15	40	1,155
ERC 2,5/ 35	2,5	35	87,5	A	60	12	35	25	15	40	1,470
ERC 2,5/ 40	2,5	40	100	A	65	12	38	25	15	40	1,900
ERC 2,5/ 45	2,5	45	112,5	A	65	12	38	25	15	40	2,300
ERC 2,5/ 50	2,5	50	125	A	70	12	40	25	15	40	2,800
ERC 2,5/ 55	2,5	55	137,5	A	70	15	40	25	15	40	3,300
ERC 2,5/ 60	2,5	60	150	A	80	15	45	25	15	40	4,000
ERC 2,5/ 65	2,5	65	162,5	A	80	15	45	25	15	40	4,550
ERC 2,5/ 70	2,5	70	175	A	90	20	54	25	15	40	5,400
ERC 2,5/ 75	2,5	75	187,5	A	90	20	54	25	15	40	6,000
ERC 2,5/ 80	2,5	80	200	B	-	25	45	25	-	-	3,050
ERC 2,5/ 85	2,5	85	212,5	B	-	25	45	25	-	-	3,150
ERC 2,5/ 90	2,5	90	225	B	-	25	45	25	-	-	3,210
ERC 2,5/ 95	2,5	95	237,5	B	-	25	45	25	-	-	3,500
ERC 2,5/ 100	2,5	100	250	B	-	25	45	25	-	-	3,715
ERC 2,5/ 105	2,5	105	262,5	B	-	25	45	25	-	-	3,900
ERC 2,5/ 110	2,5	110	275	B	-	25	45	25	-	-	4,100
ERC 2,5/ 115	2,5	115	287,5	B	-	25	45	25	-	-	4,600
ERC 2,5/ 120	2,5	120	300	B	-	25	45	25	-	-	4,700

Medidas en mm. / Mesures en mm. / Sizes in mm.

**ENGRANAJES CILÍNDRICOS NORMA EUROPEA (ISO)**  
**ENGRENAGES CYLINDRIQUES NORME EUROPÉENNE (ISO)**  
**EUROPEAN STANDARD SPUR GEARS (ISO)**

**Módulo 3 / module 3 / modulo 3**



**Tipo "A" • Material: Acero F-114**

**Bajo pedido pueden suministrarse en acero F-125 o F-154, tratados**

Type "A" • Matériel: Acier F-114

Il est possible de fournir en acier F-125 ou F-154 traités, sous commande

Type "A" • Material: Steel F-114

It is possible to supply in steel F-125 or F-154, treated under order

**Tipo "B" • Material: Acero F-114**

Type "B" • Matériel: Acier F-114

Type "B" • Material: Steel F-114

Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Tipo Type Type	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth length	Long. cubo Long. moyeux Hub length	Ancho total Larg. totale Total width	Peso Kg. Poids Kg. Weight Kg.
		Z	Dp		C	E	M	A	H	L	
ERC 3/ 12	3	12	36	A	28	10	16	30	10	40	0,260
ERC 3/ 15	3	15	45	A	35	12	20	30	10	40	0,410
ERC 3/ 20	3	20	60	A	50	15	30	30	15	45	0,835
ERC 3/ 25	3	25	75	A	60	15	35	30	15	45	1,310
ERC 3/ 30	3	30	90	A	60	15	35	30	15	45	1,770
ERC 3/ 35	3	35	105	A	70	15	40	30	15	45	2,430
ERC 3/ 40	3	40	120	A	80	15	45	30	15	45	3,190
ERC 3/ 45	3	45	135	B	-	20	80	30	-	-	3,300
ERC 3/ 50	3	50	150	B	-	20	90	30	-	-	4,090
ERC 3/ 55	3	55	165	B	-	20	100	30	-	-	4,950
ERC 3/ 60	3	60	180	B	-	20	110	30	-	-	5,900
ERC 3/ 65	3	65	195	B	-	20	115	30	-	-	6,950
ERC 3/ 70	3	70	210	B	-	25	45	30	-	-	3,900
ERC 3/ 75	3	75	225	B	-	25	45	30	-	-	4,050
ERC 3/ 80	3	80	240	B	-	25	45	30	-	-	4,250
ERC 3/ 85	3	85	255	B	-	25	45	30	-	-	4,380
ERC 3/ 90	3	90	270	B	-	25	45	30	-	-	5,450
ERC 3/ 95	3	95	285	B	-	25	45	30	-	-	6,500
ERC 3/ 100	3	100	300	B	-	25	45	30	-	-	6,800
ERC 3/ 105	3	105	315	B	-	25	45	30	-	-	7,450
ERC 3/ 110	3	110	330	B	-	25	45	30	-	-	8,000
ERC 3/ 115	3	115	345	B	-	25	45	30	-	-	8,700

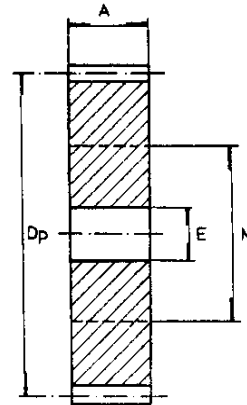
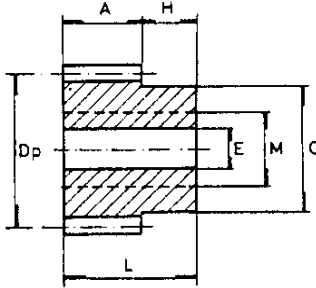
Medidas en mm. / Mesures en mm. / Sizes in mm.

# ENGRANAJES CILÍNDRICOS NORMA EUROPEA (ISO)

## ENGRENAGES CYLINDRIQUES NORME EUROPÉENNE (ISO)

### EUROPEAN STANDARD SPUR GEARS (ISO)

**Módulo 3,5 / module 3,5 / modulo 3,5**



**Tipo "A" • Material: Acero F-114**

**Bajo pedido pueden suministrarse en acero F-125 o F-154, tratados**

Type "A" • Matériel: Acier F-114

Il est possible de fournir en acier F-125 ou F-154 traités, sous commande

Type "A" • Material: Steel F-114

It is possible to supply in steel F-125 or F-154, treated under order

**Tipo "B" • Material: Acero F-114**

Type "B" • Matériel: Acier F-114

Type "B" • Material: Steel F-114

Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Tipo Type Type	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth length	Long. cubo Long. moyeux Hub length	Ancho total Larg. totale Total width	Peso Kg. Poids Kg. Weight Kg.
		Z	Dp		C	E	M	A	H	L	
ECR 3,5/ 12	3,5	12	42	A	33	12	20	35	10	45	0,400
ECR 3,5/ 15	3,5	15	52,5	A	40	15	24	35	10	45	0,630
ECR 3,5/ 20	3,5	20	70	A	60	15	35	35	15	50	1,320
ECR 3,5/ 25	3,5	25	87,5	A	70	15	40	35	15	50	2,030
ECR 3,5/ 30	3,5	30	105	A	80	20	45	35	15	50	2,850
ECR 3,5/ 35	3,5	35	122,5	A	90	20	50	35	15	50	3,750
ECR 3,5/ 40	3,5	40	140	B	-	20	85	35	-	-	4,140
ECR 3,5/ 45	3,5	45	157,5	B	-	20	95	35	-	-	5,320
ECR 3,5/ 50	3,5	50	175	B	-	20	100	35	-	-	6,520
ECR 3,5/ 55	3,5	55	192,5	B	-	20	115	35	-	-	7,900
ECR 3,5/ 60	3,5	60	210	B	-	25	50	35	-	-	5,000
ECR 3,5/ 65	3,5	65	227,5	B	-	25	50	35	-	-	5,750
ECR 3,5/ 70	3,5	70	245	B	-	25	50	35	-	-	6,600
ECR 3,5/ 75	3,5	75	262,5	B	-	25	50	35	-	-	6,950
ECR 3,5/ 80	3,5	80	280	B	-	25	50	35	-	-	7,250
ECR 3,5/ 85	3,5	85	297,5	B	-	25	50	35	-	-	7,800
ECR 3,5/ 90	3,5	90	315	B	-	25	50	35	-	-	8,300
ECR 3,5/ 95	3,5	95	332,5	B	-	25	50	35	-	-	9,700
ECR 3,5/ 100	3,5	100	350	B	-	25	50	35	-	-	11,000
ECR 3,5/ 105	3,5	105	367,5	B	-	25	50	35	-	-	11,900

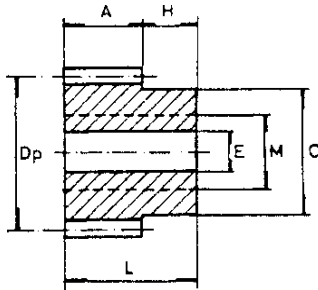
Medidas en mm. / Mesures en mm. / Sizes in mm.

# ENGRANAJES CILÍNDRICOS NORMA EUROPEA (ISO)

## ENGRENAGES CYLINDRIQUES NORME EUROPÉENNE (ISO)

### EUROPEAN STANDARD SPUR GEARS (ISO)

#### Módulo 4 / module 4 / modulo 4



Tipo "A" • Material: Acero F-114

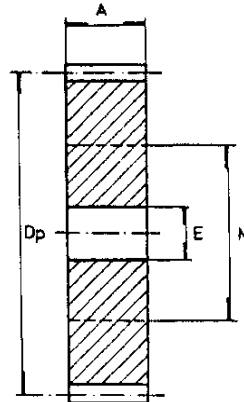
Bajo pedido pueden suministrarse en acero F-125 o F-154, tratados

Type "A" • Matériel: Acier F-114

Il est possible de fournir en acier F-125 ou F-154 traités, sous commande

Type "A" • Material: Steel F-114

It is possible to supply in steel F-125 or F-154, treated under order



Tipo "B" • Material: Acero F-114

Type "B" • Matériel: Acier F-114

Type "B" • Material: Steel F-114

Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Tipo Type Type	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth length	Long. cubo Long. moyeux Hub length	Ancho total Larg. totale Total width	Peso Kg. Poids Kg. Weight Kg.
		Z	Dp		C	E	M	A	H	L	
ECR 4/ 12	4	12	48	A	38	12	22	40	15	55	0,650
ECR 4/ 15	4	15	60	A	50	15	30	40	15	55	1,040
ECR 4/ 20	4	20	80	A	70	15	40	40	15	55	1,950
ECR 4/ 25	4	25	100	A	80	15	45	40	15	55	3,000
ECR 4/ 30	4	30	120	A	90	15	50	40	20	60	4,450
ECR 4/ 35	4	35	140	A	100	15	60	40	20	60	6,980
ECR 4/ 40	4	40	160	B	-	20	90	40	-	-	6,210
ECR 4/ 45	4	45	180	B	-	20	100	40	-	-	7,900
ECR 4/ 50	4	50	200	B	-	20	110	40	-	-	9,750
ECR 4/ 55	4	55	220	B	-	20	120	40	-	-	11,800
ECR 4/ 60	4	60	240	B	-	25	50	40	-	-	7,250
ECR 4/ 65	4	65	260	B	-	25	50	40	-	-	7,650
ECR 4/ 70	4	70	280	B	-	25	50	40	-	-	8,000
ECR 4/ 75	4	75	300	B	-	25	50	40	-	-	8,350
ECR 4/ 80	4	80	320	B	-	25	50	40	-	-	9,120
ECR 4/ 85	4	85	340	B	-	25	50	40	-	-	11,500
ECR 4/ 90	4	90	360	B	-	25	50	40	-	-	12,100
ECR 4/ 95	4	95	380	B	-	25	50	40	-	-	13,225

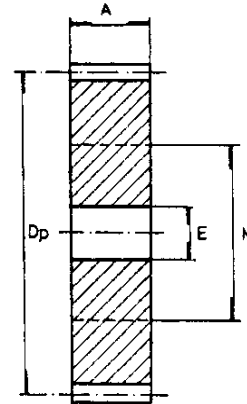
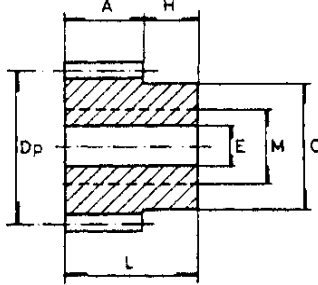
Medidas en mm. / Mesures en mm. / Sizes in mm.

# ENGRANAJES CILÍNDRICOS NORMA EUROPEA (ISO)

## ENGRENAGES CYLINDRIQUES NORME EUROPÉENNE (ISO)

### EUROPEAN STANDARD SPUR GEARS (ISO)

#### Módulo 5 / module 5 / modulo 5



Tipo "A" • Material: Acero F-114

Bajo pedido pueden suministrarse en acero F-125 o F-154, tratados

Type "A" • Matériel: Acier F-114

Il est possible de fournir en acier F-125 ou F-154 traités, sous commande

Type "A" • Material: Steel F-114

It is possible to supply in steel F-125 or F-154, treated under order

Tipo "B" • Material: Acero F-114

Type "B" • Matériel: Acier F-114

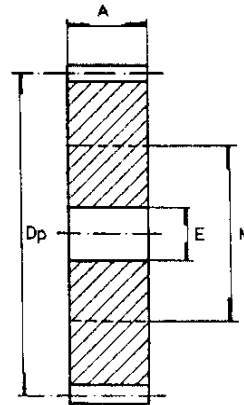
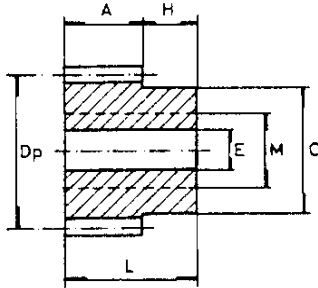
Type "B" • Material: Steel F-114

Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Tipo Type Type	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth length	Long. cubo Long. moyeux Hub length	Ancho total Larg. totale Total width	Peso Kg. Poids Kg. Weight Kg.
		Z	Dp		C	E	M	A	H	L	
ECR 5/ 12	5	12	60	A	48	15	28	50	15	65	1,230
ECR 5/ 15	5	15	75	A	60	15	35	50	15	65	1,970
ECR 5/ 20	5	20	100	A	80	15	45	50	20	70	3,770
ECR 5/ 25	5	25	125	A	100	20	60	50	20	70	5,800
ECR 5/ 30	5	30	150	A	120	20	70	50	20	70	8,500
ECR 5/ 35	5	35	175	B	-	20	95	50	-	-	9,300
ECR 5/ 40	5	40	200	B	-	20	100	50	-	-	12,200
ECR 5/ 45	5	45	225	B	-	20	120	50	-	-	15,450
ECR 5/ 50	5	50	250	B	-	25	65	50	-	-	9,350
ECR 5/ 55	5	55	275	B	-	25	65	50	-	-	11,100
ECR 5/ 60	5	60	300	B	-	25	65	50	-	-	12,800
ECR 5/ 65	5	65	325	B	-	25	65	50	-	-	13,800
ECR 5/ 70	5	70	350	B	-	25	65	50	-	-	14,500
ECR 5/ 75	5	75	375	B	-	25	65	50	-	-	16,600
ECR 5/ 80	5	80	400	B	-	25	65	50	-	-	17,850

Medidas en mm. / Mesures en mm. / Sizes in mm.

**ENGRANAJES CILÍNDRICOS NORMA EUROPEA (ISO)**  
**ENGRENAGES CYLINDRIQUES NORME EUROPÉENNE (ISO)**  
**EUROPEAN STANDARD SPUR GEARS (ISO)**

**Módulo 6 / module 6 / modulo 6**



**Tipo "A" • Material: Acero F-114**

**Bajo pedido pueden suministrarse en acero F-125 o F-154, tratados**

Type "A" • Matériel: Acier F-114

Il est possible de fournir en acier F-125 ou F-154 traités, sous commande

Type "A" • Material: Steel F-114

It is possible to supply in steel F-125 or F-154, treated under order

**Tipo "B" • Material: Acero F-114**

Type "B" • Matériel: Acier F-114

Type "B" • Material: Steel F-114

Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Tipo Type Type	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth length	Long. cubo Long. moyeux Hub length	Ancho total Larg. totale Total width	Peso Kg. Poids Kg. Weight Kg.
		Z	Dp		C	E	M	A	H	L	
ECR 6/ 12	6	12	72	A	57	15	34	60	20	80	2,200
ECR 6/ 15	6	15	90	A	75	15	45	60	20	80	3,570
ECR 6/ 20	6	20	120	A	105	20	63	60	20	80	6,500
ECR 6/ 25	6	25	150	A	135	20	80	60	20	80	10,370
ECR 6/ 30	6	30	180	B	-	25	100	60	-	-	11,750
ECR 6/ 35	6	35	210	B	-	25	115	60	-	-	16,000
ECR 6/ 40	6	40	240	B	-	25	130	60	-	-	21,000
ECR 6/ 45	6	45	270	B	-	25	65	60	-	-	12,200
ECR 6/ 50	6	50	300	B	-	25	65	60	-	-	15,500
ECR 6/ 55	6	55	330	B	-	25	65	60	-	-	16,300
ECR 6/ 60	6	60	360	B	-	25	65	60	-	-	19,800
ECR 6/ 65	6	65	390	B	-	25	65	60	-	-	21,000

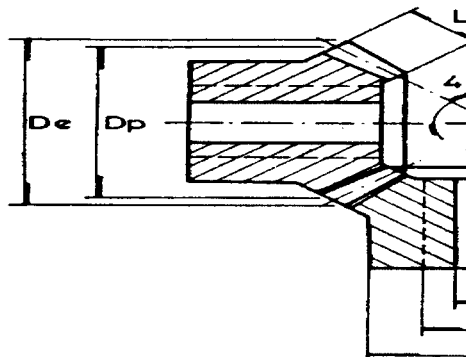
Medidas en mm. / Mesures en mm. / Sizes in mm.

# ENGRANAJES CÓNICOS NORMA EUROPEA (ISO)

## ENGRENAGES CONIQUES NORME EUROPÉENNE (ISO)

### EUROPEAN STANDARD BEVEL GEARS (ISO)

Relación 1:1 / relation 1:1 / relation 1:1



Tipo "A" • 20 dientes

Type "A" • 20 dents

Type "A" • 20 tooth

Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Ø exterior Ø extérieur Extrnal Ø	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth lenght	A	H	F	G
		Z	Dp	De	C	E	M	L				
1C 1,5 /20	1,5	20	30	32,1	25	8	13	8	28	20	18	11
1C 2 /20	2	20	40	42,8	35	10	20	10	37	25	22	14
1C 2,5 /20	2,5	20	50	53,5	40	12	24	12	45	30	25	15
1C 3 /20	3	20	60	64,2	50	14	30	15	53	35	31	18
1C 3,5 /20	3,5	20	70	74,3	60	15	35	18	61	40	36	21
1C 4 /20	4	20	80	85,6	70	20	40	20	69	45	40	24
1C 5 /20	5	20	100	107,1	85	24	48	25	85	55	49	27
1C 6 /20	6	20	120	128,5	100	28	60	30	101	65	58	32

Medidas en mm. / Mesures en mm. / Sizes in mm.

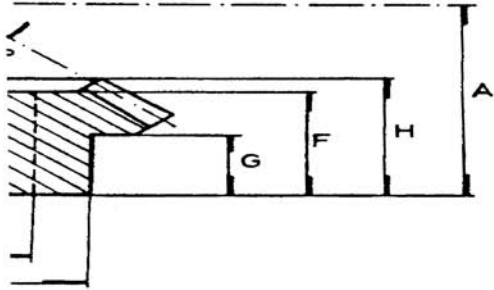
Material: Acero F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

Matériel: Acier F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

Material: Steel F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

**ENGRANAJES CÓNICOS NORMA EUROPEA (ISO)**  
**ENGRENAGES CONIQUES NORME EUROPÉENNE (ISO)**  
**EUROPEAN STANDARD BEVEL GEARS (ISO)**

**Relación 1:1 / relation 1:1 / relation 1:1**



Tipo "B" • 30 dientes

Type "B" • 30 dents

Type "B" • 30 tooth

Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Ø exterior Ø extérieur Extrnal Ø	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth lenght	A	H	F	G
		Z	Dp	De	C	E	M	L				
1C 1,5 /30	1,5	30	45	47,1	30	8	18	10	39,5	25	23	13
1C 2 /30	2	30	60	62,8	45	10	27	13	50	30	27	16
1C 2,5 /30	2,5	30	75	78,5	55	12	33	16	60	35	31	17
1C 3 /30	3	30	90	94,2	70	14	40	20	70	40	36	19
1C 3,5 /30	3,5	30	105	110,0	80	20	45	24	84	50	45	25
1C 4 /30	4	30	120	125,7	90	20	50	27	94	55	50	26
1C 5 /30	5	30	150	157,1	10	28	65	34	114	65	59	30
1C 6 /30	6	30	180	188,5	125	34	70	40	133	75	68	33

Medidas en mm. / Mesures en mm. / Sizes in mm.

Material: Acero F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

Matériel: Acier F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

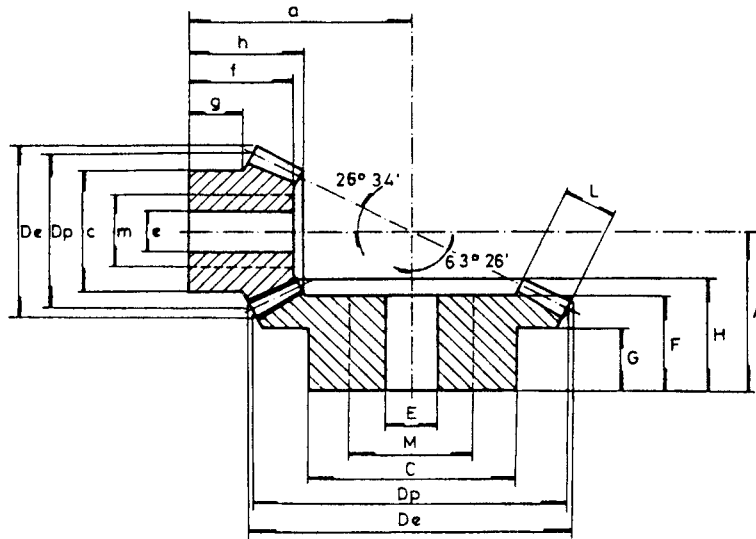
Material: Steel F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

# ENGRANAJES CÓNICOS NORMA EUROPEA (ISO)

## ENGRENAGES CONIQUES NORME EUROPÉENNE (ISO)

### EUROPEAN STANDARD BEVEL GEARS (ISO)

Relación 1:2 / relation 1:2 / relation 1:2



Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Ø exterior Ø extérieur Extrnal Ø	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth lenght	a/A	h/H	f/F	g/G
		Z	Dp	De	c/C	e/E	m/M	L				
2C 1,5 /20	1,5	20	30	32,7	25	8	13	10	42,5	22	20	11
2C 1,5 /40	1,5	40	60	61,3	40	10	24	10	32	22	19	13
2C 1,5 /16	1,5	16	24	26,7	21	10		8	35,83	19,5		11,3
2C 1,5 /32	1,5	32	48	49,3	32	12		8	27,45	20		10
2C 2 /20	2	20	40	43,6	32	10	18	15	56	30	27	14
2C 2 /40	2	40	80	81,9	50	12	30	15	39	27	23	14
2C 2 /16	2	16	32	35,6	26	10		10	45,41	23		12,2
2C 2 /32	2	32	64	65,8	40	12		10	35,21	25		10
2C 2,5 /20	2,5	20	50	54,5	40	12	24	18	68	35	32	16
2C 2,5 /40	2,5	40	100	102,2	65	14	37	18	45,5	30	25	15
2C 2,5 /16	2,5	16	40	44,4	34	12		12	55,88	27,5		14,4
2C 2,5 /32	2,5	32	80	82,2	50	15		12	39,1	25		10
2C 3 /20	3	20	60	65,4	50	14	30	22	79	40	37	17
2C 3 /40	3	40	120	122,7	80	16	45	22	53,5	35	30	17
2C 3 /16	3	16	48	53,4	40	15		15	61,64	28		11,6
2C 3 /32	3	32	96	98,7	60	15		15	45,31	30		10
2C 3,5 /20	3,5	20	70	76,3	60	16	35	25	91	45	41	19
2C 3,5 /40	3,5	40	140	143,2	95	20	35	25	61	40	34	19
2C 3,5 /16	3,5	16	56	62,3	48	15		18	72,33	33,5		14,4
2C 3,5 /32	3,5	32	112	115,1	70	20		18	48,77	31		10
2C 4 /20	4	20	80	87,5	65	18	37	30	107	55	51	24
2C 4 /40	4	40	160	163,6	110	24	65	30	70	45	38	20
2C 4 /16	4	16	64	71,1	50	20		20	80,81	36		13,4
2C 4 /32	4	32	128	131,6	80	20		20	52,42	32		10
2C 5 /20	5	20	100	109,0	85	22	48	35	132	65	60	28
2C 5 /40	5	40	200	204,5	130	25	75	35	86,5	55	47	26
2C 5 /16	5	16	80	88,9	60	20		25	106,06	50		21,1
2C 5 /32	5	32	160	164,5	100	25		25	63,52	38		10
2C 6 /20	6	20	120	130,7	100	25	60	45	157	80	75	33
2C 6 /40	6	40	240	245,3	160	30	90	45	106	70	60	33

Medidas en mm. / Mesures en mm. / Sizes in mm.

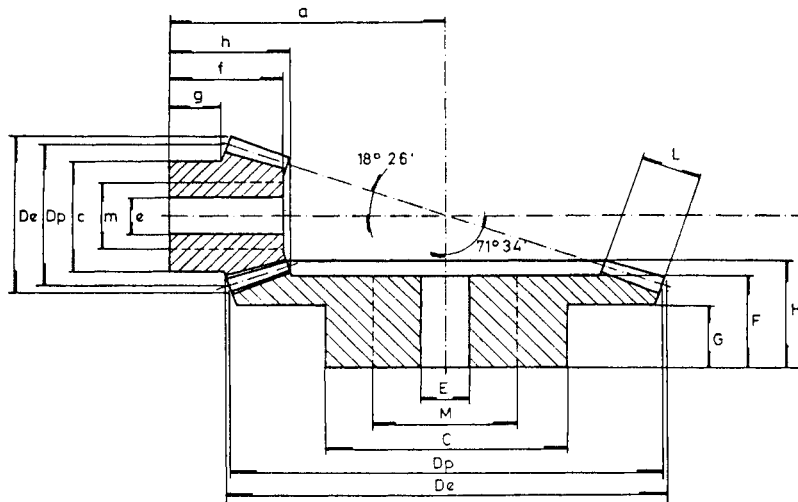
Material: Acero F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

Matériel: Acier F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

Material: Steel F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

**ENGRANAJES CÓNICOS NORMA EUROPEA (ISO)**  
**ENGRENAGES CONIQUES NORME EUROPÉENNE (ISO)**  
**EUROPEAN STANDARD BEVEL GEARS (ISO)**

**Relación 1:3 / relation 1:3 / relation 1:3**



Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Ø exterior Ø extérieur Extrnal Ø	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth lenght	a/A	h/H	f/F	g/G
		Z	Dp	De	c/C	e/E	m/M	L				
3C 1,5 /20	1,5	20	30	32,8	24	8	13	13	57,5	25	23	11
3C 1,5 /60	1,5	60	90	91,0	50	10	30	13	33	23	20	13
3C 2 /20	2	20	40	43,8	32	10	18	18	75,5	33	31	14
3C 2 /60	2	60	120	121,3	70	12	40	18	38	25	21	13
3C 3 /15	3	15	45	50,7	35	10	20	22	85,5	40	38	16
3C 3 /45	3	45	135	136,9	80	15	45	22	49	35	30	20
3C 3,5 /15	3,5	15	52,5	59,2	40	12	24	26	98	45	43	17
3C 3,5 /45	3,5	45	157,5	159,7	95	20	55	26	56	40	34	21
3C 4 /15	4	15	60	67,6	48	14	29	30	111	50	47	19
3C 4 /45	4	45	180	182,5	110	25	65	30	62	45	38	23
3C 5 /15	5	15	75	84,5	60	18	35	35	138	60	57	23
3C 5 /45	5	45	225	228,2	130	28	75	35	73	50	41	25
3C 6 /15	6	15	90	101,4	75	20	45	45	166	75	72	28
3C 6 /45	6	45	270	273,8	160	30	90	45	92	65	55	33

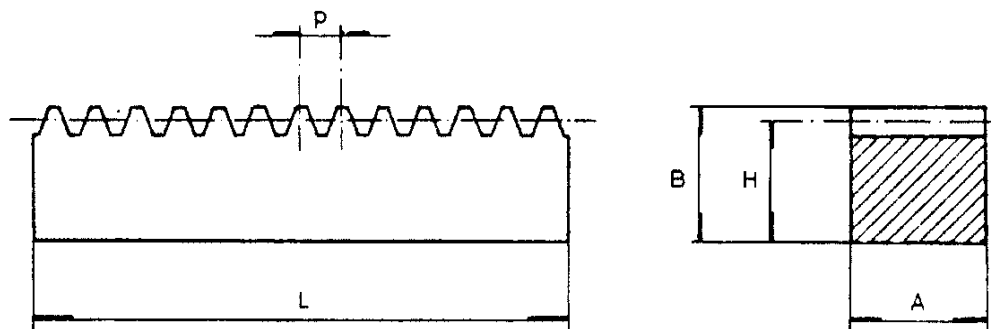
Medidas en mm. / Mesures en mm. / Sizes in mm.

Material: Acero F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

Matériel: Acier F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

Material: Steel F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

**CREMALLERAS NORMA EUROPEA (ISO)**  
**CREMAILLERES NORME EUROPÉENNE (ISO)**  
**EUROPEAN STANDARD RACKS (ISO)**



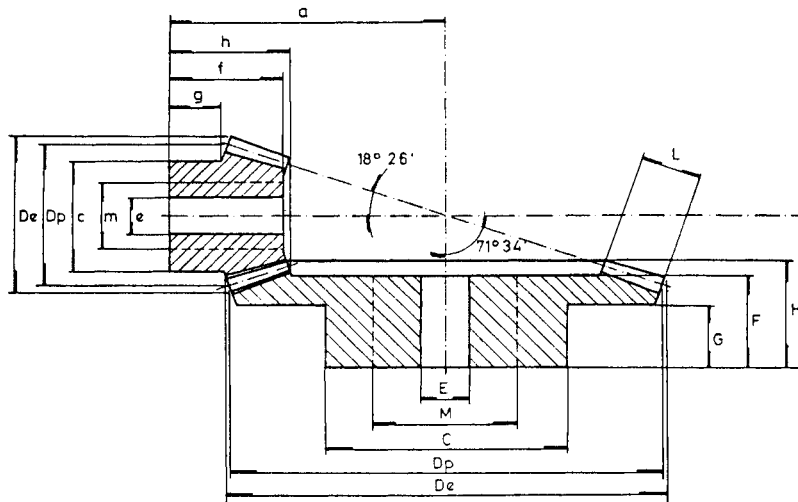
Referencia Reference Reference	Modulo Module Modulo	Paso Pas Pitch	Ancho Larg. Width	Altura total Hauteur totale Full height	Altura primitivo Hauter primitive Pitch height	Peso Kg/m. Poids Kg/m. Weight Km/m.
		P	A	B	H	
CRE-1,5	1,5	4,71	15	15	13,5	1,600
CRE-2	2	6,28	20	20	18	2,800
CRE-2,5	2,5	7,85	25	25	22,5	4,400
CRE-3	3	9,42	30	30	27	6,360
CRE-3	3	9,42	30	20	17	-
CRE-3,5	3,5	10,99	35	35	31,5	8,650
CRE-4	4	12,57	40	30	26	8,200
CRE-5	5	15,71	50	40	35	13,740
CRE-6	6	18,85	60	40	34	16,000

Medidas en mm. / Mesures en mm. / Sizes in mm.

**CREMALLERAS NORMA EUROPEA (ISO)**  
**CREMAILLERES NORME EUROPÉENNE (ISO)**  
**EUROPEAN STANDARD RACKS (ISO)**

**ENGRANAJES CÓNICOS NORMA EUROPEA (ISO)**  
**ENGRENAGES CONIQUES NORME EUROPÉENNE (ISO)**  
**EUROPEAN STANDARD BEVEL GEARS (ISO)**

**Relación 1:3 / relation 1:3 / relation 1:3**



Referencia Reference Reference	Modulo Module Modulo	Nº dientes Nº primitif No. Tooth	Ø primitivo Ø primitif Pitch Ø	Ø exterior Ø extérieur Extrnal Ø	Ø cubo Ø moyeux Hub Ø	Ø eje Ø axe axe Ø	Ø eje max. Ø axe max. axe max. Ø	Long. diente Long. dent Teeth lenght	a/A	h/H	f/F	g/G
		Z	Dp	De	c/C	e/E	m/M	L				
3C 1,5 /20	1,5	20	30	32,8	24	8	13	13	57,5	25	23	11
3C 1,5 /60	1,5	60	90	91,0	50	10	30	13	33	23	20	13
3C 2 /20	2	20	40	43,8	32	10	18	18	75,5	33	31	14
3C 2 /60	2	60	120	121,3	70	12	40	18	38	25	21	13
3C 3 /15	3	15	45	50,7	35	10	20	22	85,5	40	38	16
3C 3 /45	3	45	135	136,9	80	15	45	22	49	35	30	20
3C 3,5 /15	3,5	15	52,5	59,2	40	12	24	26	98	45	43	17
3C 3,5 /45	3,5	45	157,5	159,7	95	20	55	26	56	40	34	21
3C 4 /15	4	15	60	67,6	48	14	29	30	111	50	47	19
3C 4 /45	4	45	180	182,5	110	25	65	30	62	45	38	23
3C 5 /15	5	15	75	84,5	60	18	35	35	138	60	57	23
3C 5 /45	5	45	225	228,2	130	28	75	35	73	50	41	25
3C 6 /15	6	15	90	101,4	75	20	45	45	166	75	72	28
3C 6 /45	6	45	270	273,8	160	30	90	45	92	65	55	33

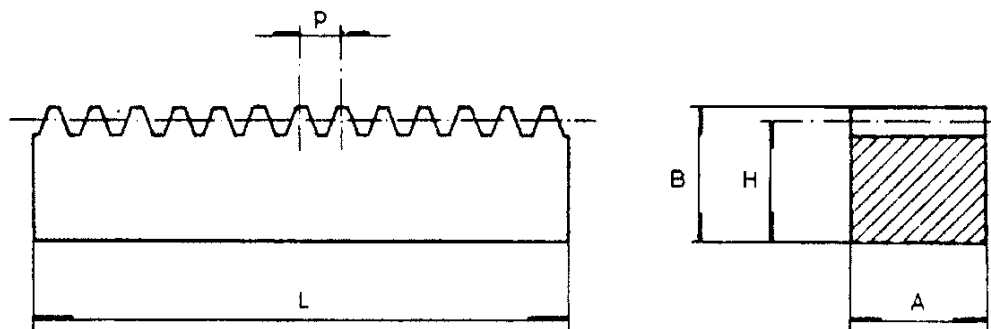
Medidas en mm. / Mesures en mm. / Sizes in mm.

Material: Acero F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

Matériel: Acier F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

Material: Steel F-114 (F-5) R=60-70 Kg./mm<sup>2</sup>

**CREMALLERAS NORMA EUROPEA (ISO)**  
**CREMAILLERES NORME EUROPÉENNE (ISO)**  
**EUROPEAN STANDARD RACKS (ISO)**



Referencia Reference Reference	Modulo Module Modulo	Paso Pas Pitch	Ancho Larg. Width	Altura total Hauteur totale Full height	Altura primitivo Hauter primitive Pitch height	Peso Kg/m. Poids Kg/m. Weight Km/m.
		P	A	B	H	
CRE-1,5	1,5	4,71	15	15	13,5	1,600
CRE-2	2	6,28	20	20	18	2,800
CRE-2,5	2,5	7,85	25	25	22,5	4,400
CRE-3	3	9,42	30	30	27	6,360
CRE-3	3	9,42	30	20	17	-
CRE-3,5	3,5	10,99	35	35	31,5	8,650
CRE-4	4	12,57	40	30	26	8,200
CRE-5	5	15,71	50	40	35	13,740
CRE-6	6	18,85	60	40	34	16,000

Medidas en mm. / Mesures en mm. / Sizes in mm.

**CREMALLERAS NORMA EUROPEA (ISO)**  
**CREMAILLERES NORME EUROPÉENNE (ISO)**  
**EUROPEAN STANDARD RACKS (ISO)**

**Certificación**



ECA CERT, CERTIFICACIÓN, S. A. U.  
con domicilio social en Calle Terré nº 11-19  
E-08017 Barcelona

**CERTIFICA**

Que una vez realizada la auditoría en fecha 1 de junio de 2006 en las instalaciones situas en Avda. Paisos Catalans, 14-16 08700 Igualada (España), se ha comprobado que los productos

**TRANSLINK**

están producidos por fabricantes certificados conforme a la norma ISO 9001:2000

según se indica en el anexo técnico adjunto.

Certificado nº: 076/SV/07/03  
Fecha de emisión: 7 de junio de 2006



Director General  
E.C.A. CERT  
C/ Terré, 11-19  
08017 BARCELONA  
Virgili Sáez Domingo

El presente certificado no tiene validez sin su contrato correspondiente. Cualquier aclaración adicional relativa a esta certificación como a la aplicabilidad de los requisitos de la norma puede obtenerse consultando a la organización.

**Certificación**



ECA CERT, CERTIFICACIÓN, S. A. U.  
whose registered office is at 11-19 Calle Terré  
E-08017 Barcelona

**DOES HEREBY CERTIFY:**

That on completion of the audit carried out 1 June 2006 at the installations located at 14-16 Avenida Paisos Catalans 08700 Igualada (Spain),

it has been duly verified that the products named below:

**TRANSLINK**

are produced by certified manufacturers conforming to ISO 9001:2000 regulations

in accordance with that appearing in the attached technical annex.

Certificate no: 076/SV/07/03  
which was issued: 7 June 2006



General Manager  
E.C.A. CERT  
C/ Terré, 11-19  
08017 BARCELONA  
Virgili Sáez Domingo

This certificate is not valid without the corresponding contract. Any additional clarifications regarding either the scope of this certificate or the applicability of the requirements of the standard may be obtained by consulting the organization.

**Certificación**



ECA CERT, CERTIFICACIÓN, S. A. U.  
mit Gesellschaftssitz in Calle Terré nº 11-19  
E-08017 Barcelona

**BESCHEINIGT,**

dass nach Durchführung der Prüfung am 1. Juni 2006 in den Anlagen, die sich in Avda. Paisos Catalans, 14-16 08700 Igualada (Spanien) befinden,

festgestellt wurde, dass die Produkte

**TRANSLINK**

von Herstellern gefertigt werden, die gemäß der Norm ISO 9001:2000 mit einer Bescheinigung ausgestattet sind,

wie aus beiliegendem technischen Anhang zu entnehmen ist.

Bescheinigungsnummer: 076/SV/07/03  
Ausstellungsdatum: 7. Juni 2006



Generaldirektor  
E.C.A. CERT  
C/ Terré, 11-19  
08017 BARCELONA  
Virgili Sáez Domingo

Die vorliegende Bescheinigung ist ohne die entsprechenden Fertigungspapiere. Beliebige zusätzliche Erklärungen sowohl zum Anhang dieser Bescheinigung als auch zur Anwendbarkeit der Anforderungen der Norm werden auf Anfrage von der Organisation bereitgestellt.

**Certificación**



ECA CERT, CERTIFICACIÓN, S. A. U.,  
ayant son domicile social rue Terré nº 11-19  
E-08017 Barcelona

**CERTIFIE**

Qu'après avoir réalisé l'audit, le 1 Juin 2006, dans les installations sises av. Paisos Catalans, 14-16 08700 Igualada (Espagne),

il a été vérifié que les produits

**TRANSLINK**

sont produits par des fabricants certifiés conformément à la norme ISO 9001:2000

comme il est indiqué dans l'annexe technique jointe.

Certificat nº: 076/SV/07/03  
Date d'émission: 7 juin 2006



Le Directeur Général  
E.C.A. CERT  
C/ Terré, 11-19  
08017 BARCELONA  
Virgili Sáez Domingo

Le présent certificat n'a pas de validité sans son contrat correspondant. Toute clarification supplémentaire concernant aussi bien la portée de ce certificat que l'applicabilité des conditions de la norme peut être obtenue en contactant l'organisation.

**Certificación**



ECA CERT, CERTIFICACIÓN, S. A. U.  
con sede in Calle Terré nº 11-19  
E-08017 Barcelona

**CERTIFICA**

Che attraverso l'audit effettuato in data 1 giugno 2006 presso gli stabilimenti situati in Avda. Paisos Catalans, 14-16 08700 Igualada (Spagna),

è stato verificato che i prodotti

**TRANSLINK**

sono realizzati da fabbricanti certificati in conformità con la norma ISO 9001:2000

così come indicato nell'allegato tecnico accluso.

Certificato nº: 076/SV/07/03  
Data di emissione: 7 giugno 2006



Direttore Generale  
E.C.A. CERT  
C/ Terré, 11-19  
08017 BARCELONA  
Virgili Sáez Domingo

Il presente certificato non è valido senza il suo relativo contratto. Per ulteriori chiarimenti relativi alla portata di questo certificato, nonché all'applicabilità dei requisiti della norma, consultare l'organizzazione.

**Certificación**



أيقا للتقديتات ش م و  
مقرها شارع توري رقم 11-19 - 19 (Calle Terré nº 11-19)  
08017 برشلونة (Barcelona) إسبانيا

**شهادة**

أنة بعد القيام بالتفتيش بتاريخ 1 حزيران / يونيو 2006 في المنشآت الكائنة في جادة باموس (Avda. Paisos Catalans, 14-16) 16-14  
08700 إيجوالادا (إسبانيا)

تبين أن منتجات

**TRANSLINK** ترانسلينك

قد تمت صناعتها من قبل مصانع مسجلة في أنظمة الجودة أيزو 9001 : 2000 وذلك حسب ما هو مبين في الملحق الفني المضموم

شهادة رقم /SV/076  
تاريخ الإصدار: 7 حزيران / يونيو 2006



المدير العام  
E.C.A. CERT  
C/ Terré, 11-19  
08017 BARCELONA  
Virgili Sáez Domingo

أست لهذه الشهادة أن تكون نافذة للتجارة من أجل الحصول على إمدادات تقنية خاصة بهذه الشهادة أو بشكل عام من أجل الحصول على إمدادات الجودة الإصل بالعلامة.



ISO 9001





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