

ANEXOS 1

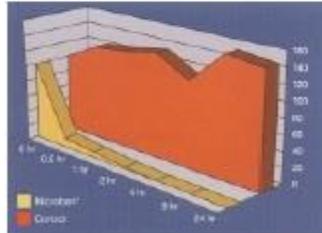
PRODUCT QUALITY

microbelt
Conveyor Components

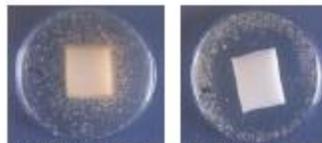
 **Microban**[®]
antibacterial protection



- Part. 261-634-356-613-219-273-210-211-213-107 are supplied with Microban[®] antibacterial protection
- By penetrating the cell wall of bacteria Microban[®] inhibits the growth of most common food poisoning bacteria, such as E.coli, Salmonella, Listeria, S-aureus, Campylobacter, which can cause contamination and odour.
- Independent laboratory tests have proven Microban[®] to be effective throughout the lifetime of the product. Because it is built-in, it is working all-over.
- The active agent used in Microban[®] technology has been recommended for approval in food contact uses by the European Union Scientific (SCF); in the United States the Environmental Protection Agency (EPA) has approved it for use in conveyor belts.



Bacteria E.coli in Microban[®] plastic compound compared to identical untreated plastic.



Without protection, growth of bacteria on and around the product

With Microban[®], absence of bacteria on and around the product

Contents

mar bell
Conveyor Components



CHAIN GUIDE COMPONENTS

Page 6

- Chain guide profiles Page 8
- Corner tracks and straight tracks Page 22
- Roller guides for chain return Page 31
- Serpentine guides for chain return Page 39
- Expansion plugs for sides connection Page 42

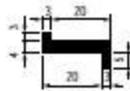


FRAME SUPPORT COMPONENTS

Page 44

- Side mounting top brackets Page 46
- Bearing heads Page 48
- Support bases Page 50
- Connecting joints Page 56

Part. 262



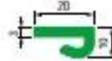
Reinforced version

■ Chain guide profile

| Part. | Colour | Packaging metric | Code |
|-------|--------|------------------|-------|
| 262 | Black | 40 | 63651 |

- Standard packaging : coil.

Part. 261



■ Chain guide profile

| Part. | Packaging metric | Code | |
|-------|------------------|----------------|-------------------|
| | | With Microban® | Without Microban® |
| 261 | 40 | 651902 | 65681 |

- Applicable to 2.5 to 4 mm thick sheet metal.
 - Colour : white (with Microban®), green (without Microban®)
 - Standard packaging : coil.
 - Accessories :
 Chain inlet guide show site Part. 551.
 See page 34.

Part. 243



■ Chain guide profile

| Part. | Colour | Packaging metric | Code |
|-------|--------|------------------|-------|
| 243 | Green | 90 | 63701 |

- Standard packaging : coil.
 - Accessories :
 Chain inlet guide show site Part. 551.
 See page 34.

- Material: Polyethylene UHMWPE with molecular density 5.000.000.
- Linear expansion coefficient: 2×10^{-4}
- Calculation of thermal expansion see page 161.
- Operating temperature:
 In air (-40 to +80 °C)
 In hot water (-20 °C)
- Position of guides. See page 164.

- TableTop chains series 812 - 815 - 820 - 831 - 881 1AB - 8811 1AB - 8191AB - 880 1AB

Fig. 1 - Chain width 82,5 mm (K 325) / Guide clearance 45 mm

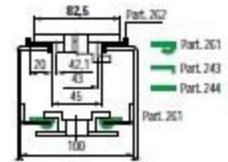


Fig. 2 - Chain width 82,5 mm (K 325) / Guide clearance 45 mm

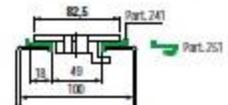


Fig. 3 - Chain width 114,3 mm (K 450)

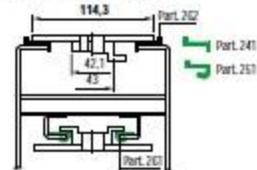
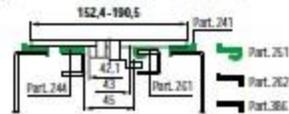
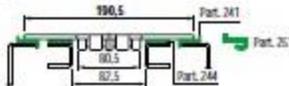


Fig. 4 - Chain width 152,4 mm (K600), 190,5 (K750)

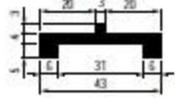


- TableTop double hinge chain series 802 - 805

Fig. 5 - Chain width 190,5 mm (K 750)



Part. 263



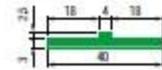
Reinforced version

■ Chain guide profile

| Part | Colour | Length metres | Code |
|------|--------|---------------|------------------|
| 263 | Black | 3 6 | 694321* 63681 |

- Use - see Fig. 13.
- Standard packaging - bars of 3 and 6 metres.
- Packaging - 96 metres.

Part. 242

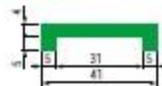


■ Chain guide profile

| Part | Colour | Packaging metres | Code |
|------|--------|------------------|-------|
| 242 | Green | 60 | 63671 |

- Use - see Fig. 14.
- Standard packaging - coil.

Part. 362



Reinforced version

■ Chain guide profile

| Part | Colour | Length metres | Code |
|------|--------|---------------|------------------|
| 362 | Green | 3 6 | 694331* 67435 |
| | Black | 3 6 | 694341 61726 |

- Use - see Fig. 15.
- Standard packaging - bars of 3 and 6 metres.
- Packaging - 96 metres.

- Material: Polyethylene UHMWPE with molecular density 5.600.000.
- Linear expansion coefficient: 2×10^{-4} .
- Calculation of thermal expansion see page 161.
- Operating temperature: In air (-40 to +80 °C), In hot water (+70 °C).
- Position of guides: See page 164.

- TableTop® chains series 812 - 815 - 820 - 831 - 881 1AB - 8811 1AB - 819 1AB - 880 1AB

Fig. 13 - Chain width 82.5 mm (K 325) / Pitch 88 mm

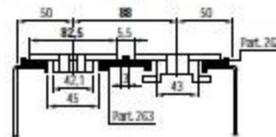


Fig. 14 - Chain width 82.5 mm (K 325) / Pitch 88 mm

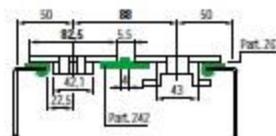
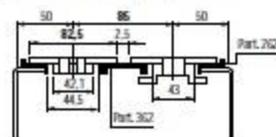


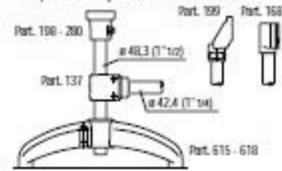
Fig. 15 - Chain width 82.5 mm (K 325) / Pitch 86 mm



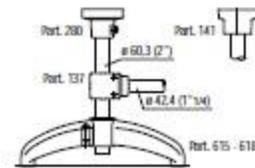
* Items highlighted as main in order and not in stock, minimum quantity may apply, consult our customer service for availability.

- Assembly of Part. 137

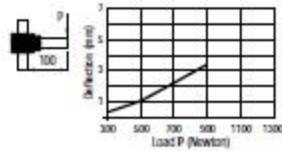
Example of assembly with vertical tubes $\varnothing 48,3$ mm



Example of assembly with vertical tubes $\varnothing 60,3$ mm



- Deflection



- Sliding load resistance



Tests performed at tightening torque : 1 Nym

■ Connecting joint



| Part. | Vertical tube dia. mm | Horizontal tube dia. mm | Max dia. mm | Min dia. mm | Weight |
|-------|-----------------------------|-------------------------------|----------------|----------------|--------|
| 137 | 48,3 (1 1/2) | 42,4 (1 1/4) | 48,3 | 42,4 | 66813 |
| | 60,3 (2) | 42,4 (1 1/4) | 60,3 | 42,4 | 66020 |

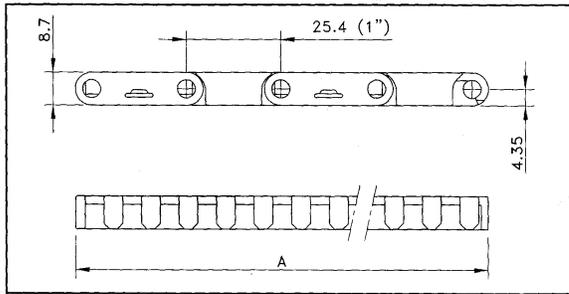
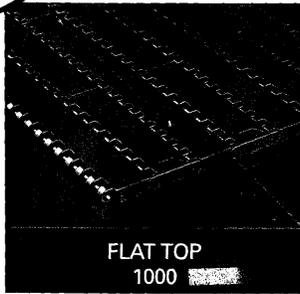
- Material : joint in reinforced polyamide PA IV (black).
- Tightening screws in stainless steel AISI 304, cadmium plated brass threaded bushings.
- Weight : 0,44 Kg.
- Max recommended tightening torque : 1 Nym.
- Packaging : 6 pieces.

Part. 137



For round tubes

SERIE 1000



página 156, 157
MATERIAL
 página 204

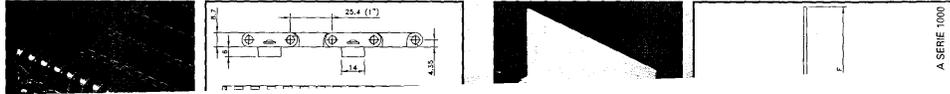
| | | | temperaturas °C | | Carga de trabajo (máx.) | | | |
|--|------------------|-----------|--------------------|-----------|-------------------------------|-------------------|----|--|
| | | | en seco | humedo | N/m (21°C) | kg/m ² | | |
| ACETAL XLG | | | | | | | | |
| ESTÁNDAR | FT 1000 XLG | 817.30.xx | 4 a 80 | 4 a 65 | 22000 | 6,50 | 25 | |
| DOBLE POSITRACK | FTDP 1000 XLG | 873.27.xx | | | | | | |
| POSITRACK EN UN COSTADO, FREE FLOW EN UN COSTADO | FFTP 1000 XLG | 873.08.xx | | | | | | |
| POSITRACK EN DOS COSTADOS, FREE FLOW EN UN COSTADO | FFTP 1000 XLG | 873.07.xx | | | | | | |
| DOBLE POSITRACK 84 | FTDP 1000 XLG 84 | 873.21.09 | -30 a +80 | hasta 65 | | | | |
| ACETAL PS | | | | | | | | |
| DOBLE POSITRACK | FTDP 1000 PS | 873.35.xx | 4 a 80 | 4 a 65 | 22000 | 6,50 | 25 | |
| DOBLE POSITRACK 84 | FTDP 1000 PS 84 | 873.35.09 | -30 a +80 | hasta 65 | | | | |
| POLIPROPILENO XP | | | | | | | | |
| ESTÁNDAR | FT 1000 XP | 818.30.xx | 4 a 104 | 4 a 104 | 11000 | 4,25 | 25 | |
| DOBLE POSITRACK | FTDP 1000 XP | 873.29.xx | | | | | | |
| PETAL AS | | | | | | | | |
| ESTÁNDAR | FT 1000 AS | 814.30.xx | 4 a 80 | - | 13000 | 6,11 | 25 | |
| DOBLE POSITRACK | FTDP 1000 AS | 873.32.xx | | | | | | |
| POLIETILENO WLA ANTIBACTERIANO | | | | | | | | |
| ESTÁNDAR | WLA 1000 FT | 812.60.xx | -70 a +35 | -70 a +35 | 5000 | 4,60 | 25 | |
| POLIETILENO BLA ANTIBACTERIANO | | | | | | | | |
| ESTÁNDAR | BLA 1000 FT | 812.80.xx | -70 a +35 | -70 a +35 | 5000 | 4,60 | 25 | |
| POLIPROPILENO WHA ANTIBACTERIANO | | | | | | | | |
| ESTÁNDAR | WHA 1000 FT | 811.80.xx | 4 a 104 | 4 a 104 | 11000 | 4,30 | 25 | |
| ACETAL WSA ANTIBACTERIANO | | | | | | | | |
| ESTÁNDAR | WSA 1000 FT | 815.70.xx | 4 a 80 | 4 a 65 | 22000 | 6,50 | 25 | |
| DOBLE POSITRACK | WSA 1000 FTDP | 873.28.xx | | | | | | |

* En los códigos, xx se corresponde con el ancho de la malla (A), comenzando en 10 hasta 85 mm, 11 hasta 170 mm y así sucesivamente con incrementos de 85 mm, u opcionalmente 5 mm, hasta 6.120 mm; consulte también la página 202

Si necesita empujadores, describa la malla eligiendo las opciones necesarias que se indican en la 2ª columna de la tabla:

| | | |
|-----------------------------|-----------------------|--|
| Material | WLA o BLA o WHA o WSA | Consulte la página 204 |
| Tipo de malla | 1000 FT o 1000 FTDP | Positrack (doble) disponible solamente en WSA |
| Ancho (A) | KM... (in mm) | Las mallas con empujadores tienen un ancho mínima de 130 mm con incrementos de 10 mm |
| Empujadores | F3 o F2 o F1 o H.. | Altura estándar de 3", 2", 1" o altura especial en mm |
| Distancia entre empujadores | T..P | Empujadores en cada ..ª fila (debe corresponderse con un número par de filas) |
| Side-indent del empujador | N.. (in mm) | Mínimo de 40 mm con incrementos de 5 mm |

Ejemplo: WSA 1000 FTDP KM-430 H50 T6P N45 es una malla con Flat Top 1000 y doble positrack, hecha de acetal blanco con Microban, ancho especial de 430 mm, empujadores especiales de 50 mm de altura en cada 6ª fila a 45 mm de los lados



A. SERIE 1000

| dién tes | B | E | F | cubo A |
|-------------|---|----|----|-----------|
| | | mm | mm | mm |

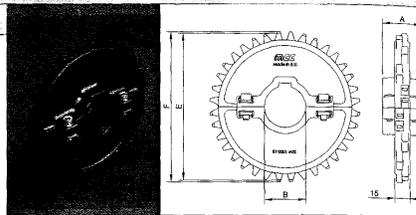
UNIVERSAL
página 205

PIÑONES PARTIDOS DE CUBO ANCHO

EJES REDONDOS

| | | | | | |
|----------------|-----------|----|-------|-------|-------|
| SSW 1000 16-30 | 899.06.17 | 16 | 30 mm | 130,2 | 130,6 |
| SSW 1000 16-35 | 899.06.10 | 16 | 35 mm | | |
| SSW 1000 16-40 | 899.06.11 | 16 | 40 mm | 146,3 | 146,8 |
| SSW 1000 18-30 | 899.08.17 | 18 | 30 mm | | |
| SSW 1000 18-35 | 899.08.10 | 18 | 35 mm | | |
| SSW 1000 18-40 | 899.08.11 | 18 | 40 mm | 162,4 | 163,1 |
| SSW 1000 20-30 | 899.09.17 | 20 | 30 mm | | |
| SSW 1000 20-35 | 899.09.10 | 20 | 35 mm | | |
| SSW 1000 20-40 | 899.09.11 | 20 | 40 mm | | |
| SSW 1000 16-1½ | 899.06.31 | 16 | 1,5" | 130,2 | 130,6 |
| SSW 1000 18-1½ | 899.08.31 | 18 | 1,5" | 146,3 | 146,8 |
| SSW 1000 20-1½ | 899.09.31 | 20 | 1,5" | 162,4 | 163,1 |

39



EJES CUADRADOS

| | | | | | |
|-------------------|-----------|----|-------|-------|-------|
| SSW 1000 16-40x40 | 899.06.21 | 16 | 40 mm | 130,2 | 130,6 |
| SSW 1000 18-40x40 | 899.08.21 | 18 | 40 mm | 146,3 | 146,8 |
| SSW 1000 20-40x40 | 899.09.21 | 20 | 40 mm | 162,4 | 163,1 |
| SSW 1000 16-1½x1½ | 899.06.41 | 16 | 1,5" | 130,2 | 130,6 |
| SSW 1000 18-1½x1½ | 899.08.41 | 18 | 1,5" | 146,3 | 146,8 |
| SSW 1000 20-1½x1½ | 899.09.41 | 20 | 1,5" | 162,4 | 163,1 |

39

Para piñones de cubo ancho con eje redondo, un chavetero es suficiente.

Para aplicaciones húmedas en caliente como la pasteurización, se encuentran disponibles piñones especiales; consulte la página siguiente.



**BONFIGLIOLI
RIDUTTORI**

Worm Gear Series

Supplement



VF



W



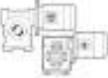
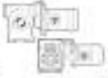
**VF/VF - VF/W
W/VF**



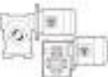
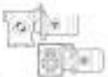
BONFIGLIOLI

Power & Control Solutions

0.5 hp

| n_2 [rpm] | T_2 [lb-in] | S Safety factor | i (ratio) | R_{a2} [lb] |  |  |  |  |  |
|----------------|------------------|-----------------------|--------------|------------------|---|---|---|---|---|
| 4.3 | 3313 | 1.0 | 400 | 1394 | | | VFW 4475 - 400 | F71 BN71B4 | N56C |
| 4.3 | 2953 | 1.5 | 400 | 1574 | | | VFW 4486 - 400 | F71 BN71B4 | N56C |
| 3.2 | 3971 | 1.1 | 525 | 1574 | | | VFW 4486 - 525 | F71 BN71B4 | N56C |
| 3.1 | 3987 | 2.2 | 540 | 1798 | | | VFW 49110 - 540 | F71 BN71B4 | N56C |
| 2.8 | 4322 | 3.7 | 600 | 3102 | | | WVF 63130 - 600 | F71 BN71B4 | N56C |
| 2.5 | 6212 | 3.7 | 690 | 3597 | | | WVF 86150 - 690 | F71 BN71B4 | N56C |
| 2.4 | 5186 | 1.7 | 720 | 1798 | | | VFW 49110 - 720 | F71 BN71B4 | N56C |
| 2.2 | 5337 | 3.0 | 760 | 3102 | | | WVF 63130 - 760 | F71 BN71B4 | N56C |
| 1.8 | 6396 | 2.5 | 960 | 3102 | | | WVF 63130 - 960 | F71 BN71B4 | N56C |
| 1.6 | 6029 | 1.5 | 1080 | 1798 | | | VFW 49110 - 1080 | F71 BN71B4 | N56C |
| 1.4 | 7347 | 2.2 | 1200 | 3102 | | | WVF 63130 - 1200 | F71 BN71B4 | N56C |
| 1.3 | 7293 | 1.2 | 1350 | 1798 | | | VFW 49110 - 1350 | F71 BN71B4 | N56C |
| 1.2 | 10437 | 2.2 | 1380 | 3597 | | | WVF 86150 - 1380 | F71 BN71B4 | N56C |
| 1.1 | 8759 | 1.8 | 1520 | 3102 | | | WVF 63130 - 1520 | F71 BN71B4 | N56C |
| 1.0 | 8946 | 1.0 | 1656 | 1798 | | | VFW 49110 - 1656 | F71 BN71B4 | N56C |
| 0.94 | 9076 | 1.8 | 1800 | 3102 | | | WVF 63130 - 1800 | F71 BN71B4 | N56C |
| 0.92 | 12591 | 1.8 | 1840 | 3597 | | | WVF 86150 - 1840 | F71 BN71B4 | N56C |
| 0.66 | 10603 | 1.5 | 2950 | 3102 | | | WVF 63130 - 2950 | F71 BN71B4 | N56C |
| 0.58 | 14314 | 1.6 | 2944 | 3597 | | | WVF 86150 - 2944 | F71 BN71B4 | N56C |
| 0.53 | 9796 | 1.6 | 3200 | 3102 | | | WVF 63130 - 3200 | F71 BN71B4 | N56C |

0.75 hp

| n_2 [rpm] | T_2 [lb-in] | S Safety factor | i (ratio) | R_{a2} [lb] |  |  |  |  |  |
|----------------|------------------|-----------------------|--------------|------------------|---|---|---|---|---|
| 244 | 163 | 2.9 | 7 | 263 | VF 49 - 7 | | | P80 BN80A4 | N56C |
| 171 | 227 | 2.3 | 10 | 317 | VF 49 - 10 | | | P80 BN80A4 | N56C |
| 122 | 306 | 1.9 | 14 | 366 | VF 49 - 14 | | | P80 BN80A4 | N56C |
| 114 | 336 | 3.9 | 15 | 513 | W 63 - 15 | | | P80 BN80A4 | N56C |
| 95 | 379 | 1.4 | 18 | 425 | VF 49 - 18 | | | P80 BN80A4 | N56C |
| 90 | 416 | 3.2 | 19 | 584 | W 63 - 19 | | | P80 BN80A4 | N56C |
| 86 | 448 | 4.9 | 20 | 767 | W 75 - 20 | | | P80 BN80A4 | N56C |
| 81 | 476 | 2.6 | 21 | 564 | | WR 63 - 21 | | P80 BN80A4 | N56C |
| 71 | 486 | 1.1 | 24 | 474 | VF 49 - 24 | | | P80 BN80A4 | N56C |
| 71 | 506 | 2.7 | 24 | 650 | W 63 - 24 | | | P80 BN80A4 | N56C |
| 68 | 540 | 4.1 | 25 | 863 | W 75 - 25 | | | P80 BN80A4 | N56C |
| 61 | 537 | 1.2 | 28 | 488 | VF 49 - 28 | | | P80 BN80A4 | N56C |
| 57 | 600 | 2.4 | 30 | 713 | W 63 - 30 | | | P80 BN80A4 | N56C |
| 57 | 681 | 3.6 | 30 | 812 | | WR 75 - 30 | | P80 BN80A4 | N56C |

Dynamic efficiency included in output values 3 phase / 4 pole electric motor Refer to Notes after 20 hp section for 1, 2, 3, 4

