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This content may change without notice. The numerical values are not guaranteed values.

BANDO Power Transmission Belts Table

《SYNCHRONOUS BELTS》

| Description | Material | Belt Profile | Page |
| :---: | :---: | :---: | :---: |
| KING POWER Synchronous Belts （KPS II） | P |  | 7 |
| High Performance STS Belts （HP－STS） | R |  | 8～9 |
| Ceptor VI | R |  | 10 |
| Long Synchronous ／STS Belts | R |  | 11 |
| BANCOLLAN Long Synchronous／ STS Belts | P |  | 12 |
| Synchronous Belts | R |  | 13～14 |
| Super Torque Synchronous Belts | R |  | 15～16 |
| Double Sided Synchronous／ STS Belts | R |  | 17 |
| BANCOLLAN Double Sided Synchronous ／STS Belts | P |  | 18 |
| HTS Belts | R |  | 19 |
| BANCOLLAN Synchronous／ STS Belts | P |  | 20～22 |

《V BELTS》

| Description | Material | Belt Profile | Page |
| :---: | :---: | :---: | :---: |
| Fractional H．P．V Belts（FHP）AND MULTIPLE V BELTS | R |  | 23～24 |
| Agricultural <br> V－belts RED－S II | R |  | 25 |
| Agricultural V－belts W800 | R |  | 26 |
| Double－V Belts | R |  | 27 |
| POWER ACE | R |  | 28～29 |
| Narrow V－Belts （SP type） | R |  | 31 |
| POWER ACE COG | R |  | 30 |
| Variable Speed Belts | R |  | 32 |
| BANCOLLAN V－Belts （VC type） | P |  | 36 |
| Bancollan V－Belts （DC Type） | P |  | 36 |
| Banflex | P |  | 37 |
| Bancord V－Belts | P |  | 44 |

※Material：R＝Rubber，P＝Polyurethane

BANDO Power Transmission Belts Table

《ENERGY SAVING BELTS》

| Description | Material | Belt Profile | Page |  |
| :---: | :---: | :---: | :---: | :---: |
| Energy Saving Red | R |  |  | 3 |
| Energy Saving <br> POWER ACE | R |  |  | 3 |
| Hyper Flat Drive <br> System | R |  |  |  |

《BANDED BELTS》

| Description | Material | Belt Profile | Page |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| POWER SCRUM <br> （V－Belt type） | R |  |  |

《V－RIBBED BELTS》

| Description | Material | Belt Profile | Page |
| :---: | :---: | :---: | :---: |
| RIB－ACE II | R |  |  |
| BANCOLLAN <br> Poly Banrope | P |  |  |

《ROUND BELTS》

| Description | Material | Belt Profile | Page |
| :---: | :---: | :---: | :---: |
| BANCOLLAN Round <br> Belts <br> （Seamless type） | P |  |  |
| Bancord Round <br> Belts <br> （Open end type） | P |  | 43 |

## 《FLAT BELTS》

| Description | Material | Belt Profile | Page |
| :---: | :---: | :---: | :---: |
| BANCOLLAN <br> Cordless Flat Belts <br> （Seamless type） | P |  |  |
| PS Belts | R／P |  |  |

《AUTOMOTIVE POWER TRANSMISSION BELTS》

| Description | Material | Belt Profile | Page |
| :---: | :---: | :---: | :---: |
| RAF （Laminated type） | R |  | 47～48 |
| RPF <br> （Cogged type） | R |  | 47～48 |
| RIB－ACE | R |  | 47～48 |
| OHC Synchronous／STS Belts | R |  | 47～48 |

Find the belt type you need in the first column. Then, reading across the page, find the belt that matches your kilowatt, speed, elongation, and/or center-to-center requirements.

| TYPE OF BELT |  | Maximum kilowatt (KW) |  |  |  | Maximum speed ( $\mathrm{m} / \mathrm{sec}$ ) |  |  | Maximum elongation ※ 1 (\%) | Center distance (mm) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{array}{\|c\|} \hline \text { UNDER } \\ 0.75 \end{array}$ | 0.75~7.5 | 7.5~75 | $\begin{gathered} \text { OVER } \\ 75 \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { UNDER } \\ 20 \end{array}$ | 20~30 | $\begin{gathered} \text { OVER } \\ 30 \end{gathered}$ |  | $\begin{array}{\|c} \hline \text { UNDER } \\ 500 \end{array}$ | $\begin{aligned} & 500 \sim \\ & 2000 \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { OVER } \\ 2000 \\ \hline \end{array}$ |
| Rubber belts |  |  |  |  |  |  |  |  |  |  |  |  |
| Fractional H.P. |  | [3L] | [4L] | [5L] |  | $\begin{gathered} {[3 L]} \\ 15 \end{gathered}$ | $\begin{gathered} {[4 \mathrm{~L} 5 \mathrm{~L}]} \\ 30 \end{gathered}$ |  | 1.5~2.0 |  |  |  |
| V-Belts | Multiple |  | [A] | $\begin{aligned} & {[\mathrm{B}]} \\ & {[\mathrm{C}]} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { [D] } \\ & {[\mathrm{E}]} \\ & \hline \end{aligned}$ |  | $\begin{gathered} {[A \sim E]} \\ 30 \\ \hline \end{gathered}$ |  | 1.5~2.0 |  |  | [A~E] |
|  | Red-S II |  | [SA] | $\begin{aligned} & {[\mathrm{SB}]} \\ & {[\mathrm{SC}]} \end{aligned}$ |  |  | 30 |  | 1.5~2.0 |  |  |  |
|  | Double-V |  | [AA] | $\begin{aligned} & {[\mathrm{BB}]} \\ & {[\mathrm{CC}]} \end{aligned}$ |  |  | 30 |  | 1.5~2.0 |  | [AA] | [BB] [CC] |
| POWER ACE |  |  |  | [3V] | $\begin{aligned} & {[5 \mathrm{~V}]} \\ & {[8 \mathrm{~V}]} \end{aligned}$ |  |  | 40 | $\begin{gathered} \text { Under } \\ 1.0 \\ \hline \end{gathered}$ |  | [3V] | [ $5 \mathrm{~V}, 8 \mathrm{~V}$ ] |
| POWER SCRUM (Banded Belts) | POWER ACE type |  |  | [3V] | $\begin{aligned} & {[5 \mathrm{~V}]} \\ & {[8 \mathrm{~V}]} \end{aligned}$ |  |  | 40 | $\begin{gathered} \text { Under } \\ 1.0 \end{gathered}$ |  | [3V] | [ $5 \mathrm{~V}, 8 \mathrm{~V}$ ] |
|  | Multiple V type |  | [A] | $\begin{aligned} & \hline[\mathrm{B}] \\ & {[\mathrm{C}]} \\ & \hline \end{aligned}$ | [E] |  | $\begin{gathered} {[\mathrm{A} \sim \mathrm{E}]} \\ 30 \end{gathered}$ |  | 1.5~2.0 |  |  | [A~E] |
| Variable Speed Belts |  |  | [VA~VE] |  |  |  | 30 |  | 1.0~1.5 |  | [VA, VB] | [VC,VD,VE] |
| RIB-ACE II |  | [PJ] | $\begin{aligned} & \text { [PK] } \\ & {[\mathrm{PL}]} \\ & \hline \end{aligned}$ |  |  |  |  | 50 | 1.0~1.5 |  |  |  |
| Synchronous Belts |  | $\begin{gathered} \hline[\mathrm{MLL}] \\ {[\mathrm{XL}]} \\ \hline \end{gathered}$ | [L] | $\begin{aligned} & {[\mathrm{H}]} \\ & {[\mathrm{XH}]} \end{aligned}$ | [XXH] |  |  | 30 | $\begin{gathered} \hline \text { Under } \\ 0.15 \\ \hline \end{gathered}$ |  |  |  |
| STS HP-STS CeptorVI |  |  | $\begin{gathered} {[\mathrm{S} 4.5 \mathrm{M}]} \\ {[\mathrm{S} 5 \mathrm{M}]} \end{gathered}$ | [S8M] | [S14M] |  |  | 33 | $\begin{aligned} & \text { Under } \\ & 0.15 \end{aligned}$ |  |  |  |
| Long Synchronous Belt (LSB-R) |  |  |  |  |  | 10 |  |  | $\begin{gathered} \hline \text { Under } \\ 0.15 \end{gathered}$ |  |  |  |
| Polyurethane Belts |  |  |  |  |  |  |  |  |  |  |  |  |
| KING POWER Synchronous Belt(KPS) |  |  |  | [S8M] | [S14M] |  | 30 |  | $\begin{gathered} \hline \text { Under } \\ 0.1 \end{gathered}$ |  |  |  |
| Polyurethane V-Belts | FHP (2L) | [2L] |  |  |  | [2L] |  |  | 1.5~2.0 |  |  |  |
|  | Cogged V-Belts (VC) |  |  |  |  | 10 |  |  | 1.5~2.0 |  |  |  |
|  | Double cogged V-Belts (DC) |  |  |  |  | 10 |  |  | 0.5~2.0 |  |  |  |
|  | Cordless <br> (BANCOLAN V-Belts |  |  |  |  |  |  |  | 0.5~1.0 |  |  |  |
|  | Open Ended (Bandcord V-Belts) | [M] | [A][B] |  |  |  |  |  | 2.0~3.0 |  |  |  |
| Banflex |  | [3M] | [5M] | [7M] | [11M] |  |  | 60 | Under 0.8 |  |  |  |
| Banflex Scrum |  |  | [5MS] | [7MS] | [11MS] |  |  | 60 | $\begin{gathered} \text { Under } \\ 0.8 \end{gathered}$ |  |  |  |
| Polyurethane Flat Belts | Cordless |  |  |  |  |  |  |  | 1.5~2.0 |  |  |  |
| Polyurethane V-Ribbed Belts |  | [H] | [J] |  |  |  | 25 |  | 2.0~2.5 |  |  |  |
| Polyurethane Round Belts | Endless | $\begin{gathered} 2 \phi \sim \\ 5 \phi \end{gathered}$ |  |  |  | 10 |  |  | 0.5~1.0 |  |  |  |
|  | Open End (Bancord) | $\begin{gathered} 1.5 \phi \sim \\ 15 \phi \\ \hline \end{gathered}$ |  |  |  | 10 |  |  | 3.0~5.0 |  |  |  |
| Polyurethane Synchronous Belts |  | $\begin{gathered} {[\mathrm{XL}][T 5]} \\ {[T N 15]} \\ \hline \end{gathered}$ | $\begin{gathered} {[\mathrm{L}]} \\ {[\mathrm{T} 10]} \end{gathered}$ |  |  | 20 |  |  | $\begin{gathered} \hline \text { Under } \\ 0.25 \end{gathered}$ |  |  |  |
| Polyurethane Long Synchronous Belts (LSB-U) |  |  |  |  |  | 10 |  |  | $\begin{gathered} \text { Under } \\ 0.25 \\ \hline \end{gathered}$ |  |  |  |

※1 As listed above, the numerical value shows permissible range of elongation

1. COLOR CODE
$\square$ Recommended design area.
Marginal design area - contact your local Bando distributor
for further engineering information.
$\square$ Do not design in this area.
2. Numbers shown are maximums under normal operating conditions.
3. Letters in [ ] show belt type.

BELT CHARACTERISTICS

| TYPE OF BELT |  | Speed ratio |  | Minimum pulley diameter (mm) |  |  |  | Special applications |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Under 1:5 | 1:5~1:10 | Under 50 | 50~100 | 100~200 | $\begin{gathered} \text { OVER } \\ 200 \end{gathered}$ | Shock ioad | Horizontal drive | Backside Idler | Drive using backside of belt |
| Rubber belts |  |  |  |  |  |  |  |  |  |  |  |
| V-Belts | Fractional H.P. |  |  |  | [3L][4L] | [5L] |  |  |  |  |  |
|  | Multiple |  |  |  | [A]67 | $\begin{aligned} & {[\mathrm{B}] 118} \\ & {[\mathrm{C}] 180} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline[D] 300 \\ & {[E] 450} \\ & \hline \end{aligned}$ |  |  |  |  |
| Red-S II |  |  |  |  | $\begin{aligned} & \text { [SA]60 } \\ & \text { [SB]80 } \end{aligned}$ | [SC]100 |  |  |  |  |  |
| Double-V |  |  |  |  |  | $\begin{aligned} & {[\mathrm{AA}] 100} \\ & {[\mathrm{BB}] 180} \end{aligned}$ | [CC]260 |  |  |  |  |
| POWER ACE |  |  | 1:10 |  | [3V]67 | [5V]150 | [8V]300 |  |  |  |  |
| POWER SCRUM (Banded Belts) | POWER ACE type |  | 1:10 |  | [3V]67 | [5V]150 | [8V]300 |  |  |  |  |
|  | Multiple V type |  |  |  | [A]67 | $\begin{aligned} & \text { [B]118 } \\ & \text { [C]180 } \\ & \hline \end{aligned}$ | $\begin{aligned} & {[D] 300} \\ & \text { [E]450 } \\ & \hline \end{aligned}$ |  |  |  |  |
| Variable Speed Belts |  |  |  | [VA]45 | $\begin{aligned} & {[\mathrm{VB}] 60} \\ & \text { [VC]70 } \\ & \text { [VD] } 80 \end{aligned}$ |  |  |  |  |  |  |
| RIB-ACE II |  |  |  | [PJ]20 | $\begin{aligned} & {[\mathrm{PK}] 50} \\ & {[\mathrm{PL}] 70} \end{aligned}$ |  |  |  |  |  |  |
| Synchronous Belts |  |  | 1:10 | $[\mathrm{MXL}]$ 12 teeth [XL] [L] 10 teeth 10 teeth | $\begin{array}{\|c} {[\mathrm{H}]} \\ 14 \text { teeth } \end{array}$ | $[\mathrm{XH}]$ 22 teeth $[\mathrm{XXH}]$ <br> 22 teeth |  |  |  |  |  |
| STS HP-STS Ceptor IV |  |  | 1:10 | $[\mathrm{SBM}]$ 18 teeth $[\mathrm{S} 4.5 \mathrm{M}]$ 12 teeth $[\mathrm{S5M}]$ 12 teeth | [S14M] 28 teeth |  |  |  |  |  |  |
| Long Synchronous Belts (LSB-R) |  |  | 1:10 | $[\mathrm{MXL}]$ $[\mathrm{XL}][\mathrm{L}]$ $[\mathrm{S} 4.5 \mathrm{M}]$ [S5M] | $\begin{gathered} {[\mathrm{S} 8 \mathrm{M}]} \\ {[\mathrm{H}]} \end{gathered}$ | $\begin{gathered} {[\mathrm{XH}]} \\ {[\mathrm{S} 14 \mathrm{M}]} \end{gathered}$ | [XXH] |  |  |  |  |
| Polyurethane Belts |  |  |  |  |  |  |  |  |  |  |  |
| KING POWER Synchronous Belt (KPS) |  |  | 1:10 | $\begin{aligned} & {[\mathrm{SBM}]} \\ & 18 \text { teeth } \end{aligned}$ | $\begin{aligned} & {[S 14 M]} \\ & 22 \text { teeth } \end{aligned}$ |  |  |  |  |  |  |
| Polyurethane V-Belts | FHP (2L) |  |  | [2L] |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cogged V-Belts } \\ & \text { (VC) } \end{aligned}$ |  |  | 16 |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Double cogged } \\ & \text { V-Belts (DC) } \\ & \hline \end{aligned}$ |  |  | 16 |  |  |  |  |  |  |  |
|  | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { Cordless } \\ \text { (BANCOLLAN V-Belts) } \end{array} \\ \hline \end{array}$ |  |  |  |  |  |  |  |  |  |  |
|  | Open Ended (Bancord V-Belts) |  |  |  | [M]80 | $\begin{aligned} & {[\mathrm{A}] 100} \\ & {[\mathrm{~B}] 150} \\ & \hline \end{aligned}$ |  |  |  |  |  |
| Banflex |  |  |  |  |  |  |  |  |  |  |  |
| Banded Banflex (Banflex Scrum) |  |  | 1:10 | $\begin{aligned} & {[5 \mathrm{MS}] 26} \\ & \text { [7MS]40 } \end{aligned}$ | $\begin{gathered} {[11 \mathrm{MS}]} \\ 63 \end{gathered}$ |  |  |  |  |  |  |
| Polyurethane Flat Belts | Cordless |  |  | $\begin{array}{\|l\|} \hline(0.6 \mathrm{mmt}) 6 \\ (1.0 \mathrm{mmt}) 10 \end{array}$ |  |  |  |  |  |  |  |
| Polyurethane V-Ribbed Belts |  |  |  | $\begin{aligned} & {[\mathrm{H}] 14} \\ & {[\mathrm{~J}] 24} \end{aligned}$ |  |  |  |  |  |  |  |
| Polyurethane Round Belts | Endless |  |  | $\phi$ ] 18 $[5 \mathrm{~mm} \phi] 30$ |  |  |  |  |  |  |  |
|  | Open End (Bancord) |  |  | $\left[\begin{array}{c} {[3 \mathrm{~mm} \phi]} \\ \hline \end{array}\right.$ | $\left[\begin{array}{c} {[10 \mathrm{~mm} \phi]} \\ 80 \end{array}\right.$ |  |  |  |  |  |  |
| Polyurethane Synchronous Belts |  |  | 1:10 | $\left\lvert\, \begin{gathered} {[T N 15]} \\ 20 \text { teeth } \\ {[\mathrm{XL}][\mathrm{L}][T 5]} \\ 15 \text { teeth } \\ {[T 10]} \\ 12 \text { teeth } \end{gathered}\right.$ |  |  |  |  |  |  |  |
| Polyurethane Long Synchronous Belts (LSB-U) |  |  | 1:10 | $[\mathrm{S2M}]$ $[\mathrm{SMM}]$ $[\mathrm{XL}][\mathrm{L}]$ $[\mathrm{T} 5][\mathrm{T} 10]$ | $\begin{gathered} {[\mathrm{S} 8 \mathrm{M}]} \\ {[\mathrm{H}]} \end{gathered}$ | [ XH ] |  |  |  |  |  |


| Oil <br> Resistance | Acid Resistance | Alkali Resistance | Ozone Resistance | Water Resistance | Flame Resistance | Low Noise | Vibration | BELT TYPE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rubber Belts |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | Fractional H.P. | V-Belts |
|  |  |  |  |  |  |  |  | Multiple, RED-S DOUBLE-V |  |
|  |  |  |  |  |  |  |  | POWER ACE |  |
|  |  |  |  |  |  |  |  | POWER ACE type | POWER SCRUM <br> (Banded Belts) |
|  |  |  |  |  |  |  |  | Multiple V type |  |
|  |  |  |  |  |  |  |  | Variable Speed Belts |  |
|  |  |  |  |  |  |  |  | RIB-ACE II |  |
|  |  |  |  |  |  |  |  | Synchronous Belts, STS, HP-STS Ceptor-VI |  |
|  |  |  |  |  |  |  |  | Long Synchronous Belt (LSB-R) |  |
| Polyurethane Belts |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | King Power Synchronous Belts (KPS) |  |
|  |  |  |  |  |  |  |  | FHP (2L) | Polyurethane V-Belts |
|  |  |  |  |  |  |  |  | Cogged V-Belts (VC) |  |
|  |  |  |  |  |  |  |  | Double Cogged V <br> Belts (DC) |  |
|  |  |  |  |  |  |  |  | Cordless (BANCOLLAN V-Belts) |  |
|  |  |  |  |  |  |  |  | Open Ended (Bancord V Belts) |  |
|  |  |  |  |  |  |  |  | Banflex |  |
|  |  |  |  |  |  |  |  | Banflex Scrum |  |
|  |  |  |  |  |  |  |  | Cordless | Polyurethane Flat Belts |
|  |  |  |  |  |  |  |  | Polyurethane V-Ribbed Belts |  |
|  |  |  |  |  |  |  |  | Endless | Polyurethane Round Belts |
|  |  |  |  |  |  |  |  | Open End (Bancord) |  |
|  |  |  |  |  |  |  |  | Polyurethane Synchronous Belts |  |
|  |  |  |  |  |  |  |  | Polyurethane Long Synchronous Belts (LSB-U) |  |

## 1. COLOR CODE

$\square$ Belt is perfectly suitable for conditions shown.
$\square$ Belt is adequately suitable for conditions shown.
$\square$ Belt is marginally suitable for conditions shown, but not recommendable.
$\square$ DO NOT apply belt in these environments.

Find the type of Belt you need in the first clumn. Then, reading across the page, find the belt that matches your operating conditions.

| BELT TYPE |  | DRIVING CONDITIONS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ambient Temperature Range |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Electrical conductivity |
|  |  | $\begin{array}{\|cc\|} \hline-40 & -30 \\ (-40) & (-22 \\ \hline \end{array}$ |  | $\begin{aligned} & \hline-10 \\ & (14) \\ & \hline \end{aligned}$ |  | 10 20 30 <br> $(50)$ $(68)$ $(86)$ <br> Rubber Belts |  |  | $\begin{array}{cc} 40 & 50 \\ (104) & (122 \\ \hline \end{array}$ | $\begin{gathered} 60 \\ (140) \end{gathered}$ | $\begin{gathered} 70 \\ (158) \end{gathered}$ | $\begin{gathered} 80 \\ (176) \end{gathered}$ | $\begin{gathered} 90 \\ (194) \end{gathered}$ | $\begin{array}{ccc} 100 & 110 & 120 \\ (212) & (230) & (248) \\ \hline \end{array}$ |  |  | $\begin{aligned} & { }^{\circ} \mathrm{C} \\ & (\mathrm{~F}) \end{aligned}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Fractional H.P. |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  | less than $6 \mathrm{M} \Omega$ |
| V-Belts | Multiple RED-S DOUBLE-V |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  | less than $6 \mathrm{M} \Omega$ |
| POWER ACE |  |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  | less than $6 \mathrm{M} \Omega$ |
| OWER SCRUM | POWER ACE type |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  | less than $6 \mathrm{M} \Omega$ |
| (Banded B | Multiple V type |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  | less than $6 \mathrm{M} \Omega$ |
| Variable Speed B |  |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  | less than $6 \mathrm{M} \Omega$ |
| RIB-ACE II |  |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  | less than $6 \mathrm{M} \Omega$ |
| Synchronous Belt Ceptor-VI | s, STS, HP-STS |  |  |  |  |  | igh T | Stan | $\frac{\text { ndard }}{\text { rature Re }}$ | ist |  |  | $\rightarrow$ |  |  | $\rightarrow$ |  | less than $6 \mathrm{M} \Omega$ <br> insulation over $100 \mathrm{M} \Omega$ |
| Long Synchronou | Belts (LSB-R) |  |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  | less than $6 \mathrm{M} \Omega$ |
|  |  |  |  |  |  | Polyu | 硡 | 兂 |  |  |  |  |  |  |  |  |  |  |
| KING POWER Sy | chronous Belts |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
|  | FHP (2L) |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
|  | Cogged V-Belts (VC) |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
| Polyurethane V-Belts | Double Cogged V-Belts (DC) |  |  |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
|  | Cordless (BANCOLLAN V-Belts) |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
|  | Open End (Bancord V-Belts) |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
| Banflex |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
| Banflex Scrum |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
| Polyurethane Flat Belts | Cordless |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
| Polyurethane V R | bbed Belts |  |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
|  | Endless |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
| Round Belts | Open End (Bancord) |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
| Polyurethane Syn | chronous Belts |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |
| Polyurethane Lon Synchronous Belt | s (LSB-U) |  |  |  |  |  |  |  |  |  | $\rightarrow$ |  |  |  |  |  |  | $10^{4} \sim 10^{6} \mathrm{M} \Omega$ |

Above electrical conductivity of rubber Synchronous Belt is for rubber component except tooth canvas.


## Construction

1: Polyurethane backing
2: Aramid tensile member
3: Polyamid fiber loaded
4: Polyurethane teeth
$\square$ Features + Benefits

- Exceptional power transmission capability

The KPS Belt can transmit 1.5 to 5 times more power than a standard STS belt drive. This allows the same power transmission capacity to be achieved using smaller pulleys - saving space and money.

- Versatile

Utilize standard STS pulleys for a wide ratio selection.

- Clean

Wear resistant polyurethane construction reduces rubber dust.

## Dimensions



| Type | P | $\mathbf{H}$ | $\mathbf{B}$ |
| :---: | :---: | :---: | :---: |
| KPS II 8M | 8.00 | 2.86 | 4.80 |
| KPS II 14M | 14.00 | 5.00 | 8.50 |

Size Mark


| KPS II 8M |  |  |  |  |  |
| ---: | :---: | ---: | ---: | ---: | ---: |
| Type | Nominal pitch <br> length (mm) | Number <br> of <br> teeth | Type | Nominal pitch <br> length (mm) | Number <br> of <br> teeth |
| S8M640 | 640 | 80 | S8M1120 | 1120 | 140 |
| 680 | 680 | 85 | 1152 | 1152 | 144 |
| 720 | 720 | 90 | 1200 | 1200 | 150 |
| 760 | 760 | 95 | 1280 | 1280 | 160 |
| 800 | 800 | 100 | 1360 | 1360 | 170 |
| 848 | 848 | 106 | 1440 | 1440 | 180 |
| 896 | 896 | 112 | 1520 | 1520 | 190 |
| 944 | 944 | 118 | 1600 | 1600 | 200 |
| 1000 | 1000 | 125 | 1696 | 1696 | 212 |
| 1024 | 1024 | 128 | 1792 | 1792 | 224 |
| 1032 | 1032 | 129 | 1960 | 1960 | 245 |
| 1056 | 1056 | 132 |  |  |  |


| KPS II 14M |  |  |  |  |  |
| ---: | :---: | ---: | :---: | :---: | :---: |
| Type | Nominal pitch <br> length $(\mathrm{mm})$ | Number <br> of <br> teeth | Type | Nominal pitch <br> length $(\mathrm{mm})$ | Number <br> of <br> teeth |
| S14M994 | 994 | 71 | S14M1568 | 1568 | 112 |
| 1120 | 1120 | 80 | 1650 | 1652 | 118 |
| 1190 | 1190 | 85 | 1708 | 1708 | 122 |
| 1260 | 1260 | 90 | 1890 | 1890 | 135 |
| 1400 | 1400 | 100 | 1960 | 1960 | 140 |
| 1470 | 1470 | 105 | 2380 | 2380 | 170 |

## Standard Belt Width

| (Width mark: Belt width (mm) $\times 10$ ) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Width Mark | 150 | 250 | 400 | 600 | 800 | 1000 | 1200 |
| Belt Width (mm) | 15 | 25 | 40 | 60 | 80 | 100 | 120 |
| KPS II 8M |  |  |  |  |  |  |  |
|  |  | KPS II 14M |  |  |  |  |  |



## Features

- Exceptionally high power transmission capacity This "high performance STS belt" achieves power transmission approximately 1.4 to 1.8 times higher than with conventional STS belts.
- Compact design

The high power transmission can minimize belt width, thus making system design as compact as possible.

- Low noise level

The high power transmission can minimize belt width, thus accomplishing a low noise operation.
*Conventional standard pulleys are also applicable.
*Standard belt sizes are available.

## Concept

Responding to needs for "Energy saving" and "High power transmission" on industrial machinery, we at BANDO have developed a "High-Performance STS Belt" capitalizing on our time-proven technology and experience.

Construction \& Members

## 1. 3. Rubber:

Using synthetic rubber results in less tooth deformation and a high level of hardness.

## 2. Tensile member:

Use of fiber glass tensile members with consideration given to dimensional stability and flexibility.

## 4. Tooth canvas:

The tooth canvas has asperities on the surface and provides a low friction coefficient, accomplishing a low noise level in operation.
Furthermore, the S14M type has a two-ply tooth canvas which enables further reductions in noise levels and improvement in durability.
The HP-S5M type is only available for clean specifications.

## Dimensions



| Type | P | H1 | H2 | W |
| :---: | :---: | :---: | :---: | :---: |
| HP-S5M | 5.00 mm | 3.61 mm | 1.91 mm | 3.25 mm |
| HP-S8M | 8.00 mm | 5.00 mm | 3.05 mm | 5.20 mm |
| HP-S14M | 14.00 mm | 8.70 mm | 5.30 mm | 9.10 mm |

## Size Mark



## Standard Belt Width

| Width Mark | 100 | 150 | 200 | 250 | 400 | 600 | 800 | 1000 | 1200 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Width $(\mathrm{mm})$ | 10 | 15 | 20 | 25 | 40 | 60 | 80 | 100 | 120 |
| HP-S5M | $\bullet$ | $\bullet$ | $\bullet$ |  |  |  |  |  |  |
| HP-S8M |  | $\bullet$ |  | $\bullet$ | $\bullet$ | $\bullet$ |  |  |  |
| HP-S14M |  |  |  |  | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |

## Standard Belt Length

| BELT TYPE | Material |  | BELT NUMBER (PITCH LENGTH mm) |
| :---: | :---: | :---: | :---: |
| HP-S5M | R | 100, 150, 200, 250 | $225,230,255,275,285,295,300,305,320,325,350,375$, 380, 390, 400, 410, 420, 425, 435, 440, 445, 450, 475, 490, 500, 520, 525, 550, 560, 565, 570, 575, 600, 625, 635, 645, 650, 665, 670, 675, 695, 700, 710, 725, 740, 750, 765, 770, 775, 780, 800, 810, 830, 850, 860, 870, 900, 920, 940, 950, $965,975,1000,1025,1050,1085,1125,1135,1145,1195$, 1225, 1250, 1260, 1270, 1295, 1350, 1420, 1595, 1715, 1800, 2000 |
| HP-S8M | R | 150, 250, 400, 600 | $352,384,408,424,456,480,520,528,560,584,600,632$, 640, 656, 672, 680, 712, 720, 728, 760, 800, 824, 840, 848, $880,888,896,920,944,960,976,984,1000,1032,1040$, 1056, 1096, 1120, 1136, 1152, 1160, 1184, 1192, 1200, 1216, 1224, 1240, 1248, 1272, 1280, 1296, 1312, 1344, 1352, 1384, 1392, 1400, 1424, 1440, 1480, 1520, 1552, 1600, 1728, 1760, 1776, 1800, 1808, 1880, 1952, 2000, 2040, 2120, 2160, 2240, 2304, 2400, 2496, 2560, 2600, 2800, 2880, 2944, 3200, 3600, 3720, 3904, 4400 |
| HP-S14M | R | $\begin{aligned} & 400,600,800 \\ & 1000,1200 \end{aligned}$ | $\begin{aligned} & 1008,1120,1190,1246,1400,1540,1610,1652,1778 \text {, } \\ & 1806,1890,1904,1960,2002,2100,2240,2310,2380 \text {, } \\ & 2450,2506,2590,2660,2800,3150,3248,3500,3556 \text {, } \\ & 3850,4004,4060,4326,4508,5012 \end{aligned}$ |



## Construction

1. Rubber: Synthetic rubber with a high degree of hardness and elasticty.
Tooth deformation is low.
2. Cord : Cord with high strength and elasticity that helps prevent decrease in tension.
3. Canvas: Abrasion-resistant tooth canvas and other materials improving resistance against tooth cracking and abrasion.

## Features

- High torque transmission

Ceptor-VI has a distinctive rounded tooth profile that, compared to a trapezoidal tooth profile, results in higher torque and transmission capacity that is further improved through the inclusion of materials with high rigidity and high elasticity. When compared to standard STS, Ceptor-VI has higher than twice the transmission capacity. (results vary depending on usage conditions)

Belt width: $60 \mathrm{~mm} /$ Pulley: 26 teeth


- Low Noise

Because Ceptor-VI can be designed with a narrower width than standard STS and HP-STS specifications, the belt produces less noise.


- Compact design

More compact design is possible owing to the higher transmission capacity. It is possible to adopt narrower width and smaller pulley than normally used with STS and HP-STS.
*Standard STS pulley can be used with Ceptor-VI ※Same sizes available as standard STS and HP-STS

Belt profile dimensions and notation



## Construction

1: Chloroprene rubber backing
2: Glass Fiber tensile member
3: Chloroprene rubber teeth
4: Nylon canvas

## Features + Benefits

Allows for synchronous power transmission and conveyance over longer spans than available with traditional molded belts.
Compared to chain drives, these belts are lighter, produce much less noise, and are much cleaner as they need no lubrication. In factory automation applications, these belts are perfectly suited to replace chains, flat power transmission belts, and conveyor belts.

## Seamless

- Having no joints, they are as capable of transmission and conveyance as standard timing belts are.
- Belts can be manufactured in a length having the number of teeth that you specify.
- Belts can be manufactured to custom specifications (reverse side logo, white color, etc.).


## Endless

- On-site endless processing is available.
- Increasing the number of joints allows synchronous conveyance or synchronous transmission over any span length.
Open-end
- Capable of accurate reciprocating motion in indexing applications.


## Dimensions

Long STS Belts


Long Synchronous Belts


|  |  | Unit: mm ( ) Dimension in seamless |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Type | $\mathbf{P}$ | $\mathbf{h}_{1}$ | $\mathbf{h}_{2}$ |  |
| MXL | 2.032 | 0.51 | 1.10 |  |
| XL | 5.080 | 1.25 | 2.25 |  |
| L | 9.525 | 1.90 | 3.50 |  |
| H | 12.700 | 2.30 | $4.3(5.30)$ |  |
| XH | 22.225 | 6.30 | $11.3(12.30)$ |  |
| XXH | 31.75 | 9.60 | $15.8(16.10)$ |  |

## Size Mark



## Standard Sizes




## Construction

1: Polyurethane teeth
2: Polyurethane backing
3: Tensile member

## Features + Benefits

The polyurethane construction of these long span belts make them ideally suited for synchronous transmission and conveyance in food processing machinery and other applications requiring a clean, dust-free drive.

## Endless

- Long-span belts capable of synchronous transmission and synchronous conveyance.
Open-end
- Capable of accurate reciprocating motion in indexing applications.

Dimensions


Bancollan Long Synchronous Belts


| Type | $\mathbf{P}$ | $h_{1}$ | $h_{2}$ |
| :---: | :---: | :---: | :---: |
| XL | 5.080 | 1.25 | 2.25 |
| L | 9.525 | 1.90 | 3.50 |
| H | 12.700 | 2.30 | 4.30 |
| T 5 | 5.00 | 1.20 | 2.20 |
| T 10 | 10.00 | 2.50 | 4.50 |

Size Mark




Polyorethane material mark
W $\cdots$ (standard milky-white)
L $\cdots$ (low friction milky-white)
$\mathrm{M} \cdots$ (moisture and heat resistant milky-white)

## Standard Sizes

| Endless (With Joints) |  |  |  |  | Open end |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | Standard Nominal width | Maximum Width in mm (Nominal width) | Maximum length (m) | Minimum length ( m ) | Type | Standard Nominal width | Maximum Width in mm (Nominal width) | $\begin{array}{\|c\|} \hline \text { Max } \\ \text { length }(\mathrm{m}) \\ \hline \end{array}$ |
| S5M | 100,150,200,250,300,400,500 | 50(500) | 50 | 0.5 | S2M | $\begin{gathered} 50,100,150,200,250 \\ 300,350,400 \end{gathered}$ | 40(400) | 60 |
| S8M | 150,200,250,300,400,500 | 100(1000) | 30 | 1.0 |  |  |  |  |
| S8M | 750,1000 |  |  | 2.0 | S3M | $\begin{gathered} 60,120,180,240,300 \\ 360,420,480 \end{gathered}$ | 48(480) | 60 |
| XL | $\begin{gathered} 025,031,037,050,075 \\ 100,150,200 \\ \hline \end{gathered}$ | 50.8(200) | 50 | 0.5 |  |  |  |  |
|  |  |  |  |  | S5M | 100,150,200,250,300,400,500 | 50(500) | 50 |
| L | 050,075,100,150,200 | 50.8(200) | 50 | 0.5 | S8M | 150,200,250,300,400,500 | 100(1000) | 30 |
| H | 075,100,150,200 | 101.6(400) | 50 | 0.5 |  | 750,1000 |  |  |
| H | 300,400 |  |  | 2.0 | XL | $\begin{gathered} \hline 025,031,037,050,075 \\ 100,150,200 \\ \hline \end{gathered}$ | 50.8(200) | 50 |
| T5 | 10,15,20,25,30,40,50 | 50 | 50 | 0.5 |  |  |  |  |
| T10 | 15,20,25,30,40,50 - - - | 100 | 50 | 0.5 | L | 050,075,100,150,200 | 50.8(200) | 50 |
|  | 75,100 |  |  | 2.0 | H | 075,100,150,200,300,400 | 101.6(400) | 50 |
|  |  |  |  |  | T5 | 10,15,20,25,30,40,50 | 50 | 50 |
|  |  |  |  |  | T10 | 15,20,25,30,40,75,100 | 100 | 50 |



## Construction

1: Chloroprene rubber backing
2: Glass fiber tensile member
3: Chloroprene rubber teeth
4: Nylon canvas

## Dimensions



## Features

- Non-slip

Accurate tooth dimensions and minimal elongation virtually eliminate slippage and speed variation.

- No maintenance

No lubrication is required.

- No high initial tension, thus keeping the bearing load very low.
- Space saving

Utilizes small pulleys and short center distances.

## Size Mark

(MXL)
$\frac{140}{\square} \frac{\mathrm{MXL}}{\frac{9.5}{L}}$ Belt width in mm
Belt type

Number of teeth
(XL, L, H, XH, XXH)
140 XL 025

——Belt width 0.25" (1/4")
Belt type
_ Pitch length in inches $\times 10(14$ " $\times 10-140)$

| Type |  | P | W | $\mathrm{H}_{1}$ | $\mathrm{H}_{2}$ | $\theta$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MXL | Mini Synchro | $\begin{array}{\|c} \hline 2.032 \mathrm{~mm} \\ \left(0.080^{\prime \prime}\right) \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline(0.76) \\ 0.030 \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline(1.1) \\ 0.043 \end{array}$ | $\begin{array}{\|l\|} \hline(0.51) \\ 0.020 \\ \hline \end{array}$ | $40^{\circ}$ |
| XL | Extra Light | $\begin{aligned} & 5.08 \mathrm{~mm} \\ & \left(0.200^{\prime \prime}\right) \\ & \hline \end{aligned}$ | $\begin{aligned} & (1.35) \\ & 0.054 \\ & \hline \end{aligned}$ | $\begin{gathered} (2.25) \\ 0.09 \end{gathered}$ | $\begin{aligned} & 1.25) \\ & 0.050 \\ & \hline \end{aligned}$ | $50^{\circ}$ |
| L | Light | $\begin{aligned} & 9.525 \mathrm{~mm} \\ & \left(0.375^{\prime \prime}\right) \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|} \hline(3.2) \\ 0.128 \\ \hline \end{array}$ | $\begin{gathered} \hline(3.5) \\ 0.14 \end{gathered}$ | $\begin{aligned} & \hline(1.9) \\ & 0.075 \end{aligned}$ | $40^{\circ}$ |
| H | Heavy | $\begin{aligned} & 12.7 \mathrm{~mm} \\ & \left(0.500^{\prime \prime}\right) \\ & \hline \end{aligned}$ | $\begin{aligned} & (4.4) \\ & 0.175 \end{aligned}$ | $\begin{aligned} & (4.3) \\ & 0.17 \end{aligned}$ | $\begin{aligned} & (2.3) \\ & 0.090 \end{aligned}$ | $40^{\circ}$ |
| XH | Extra Heavy | $\begin{gathered} 22.225 \mathrm{~mm} \\ \left(0.875^{\prime \prime}\right) \\ \hline \end{gathered}$ | $\begin{array}{\|l\|} \hline(8.0) \\ 0.313 \end{array}$ | $\begin{aligned} & (11.3) \\ & 0.44 \end{aligned}$ | $\begin{aligned} & \hline(6.3) \\ & 0.250 \\ & \hline \end{aligned}$ | $40^{\circ}$ |
| XXH | Double Extra Heavy | $\begin{gathered} 31.75 \mathrm{~mm} \\ \left(1.250^{\prime \prime}\right) \end{gathered}$ | $\begin{aligned} & (12.2) \\ & 0.477 \end{aligned}$ | $\begin{gathered} (15.8) \\ 0.62 \end{gathered}$ | $\begin{aligned} & (9.6) \\ & 0.375 \end{aligned}$ | $40^{\circ}$ |

## Standard Belt Width

|  | BELT WIDTH |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nominal Width |  |  | 025 | 031 | 037 | 050 | 075 | 100 | 150 | 200 | 300 | 400 | 500 | 600 |
| inch | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 3/4 | 1 | 1-1/2 | 2 | 3 | 4 | 5 | 6 |
| mm | 3.2 | 4.8 | 6.4 | 7.9 | 9.5 | 12.7 | 19.0 | 25.4 | 38.1 | 50.8 | 76.2 | 101.6 | 127.0 | 152.4 |
| MXL | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |  |  |  |
| XL |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |  |  |
| L |  |  |  |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |  |
| H |  |  |  |  |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |
| XH |  |  |  |  |  |  |  |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| XXH |  |  |  |  |  |  |  |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |

## Standard Sizes

| BELT TYPE | PITCH | BELT NUMBER |
| :---: | :---: | :---: |
| MXL※ (Rubber) | $\begin{gathered} 2.032 \mathrm{~mm} \\ \left(0.080^{\prime \prime}\right) \end{gathered}$ | $44,45,48,50,52,53,54,55,56,57,59,60,61,62,63,64,65,67,68,69,70,71$, $72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,90,91,92,93,94$, $95,96,97,98,99,100,101,102,103,104,105,106,108,109,110,112,114,115$, $118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,134$, $135,137,138,140,142,144,145,146,148,150,151,155,158,159,160,162$, $163,164,165,169,170,175,177,180,184,188,190,192,195,196,200,204$, 205, 208, 210, 212, 215, 220, 221, 222, 224, 225, 226, 228, 230, 232, 234, 236, 239, 240, 245, 248, 249, 250, 251, 255, 256, 260, 262, 265, 268, 271, 273, 275, 280, 281, 285, 288, 290, 295, 297, 300, 305, 308, 310, 312, 315, 318, 320, 323, $326,328,330,332,334,336,337,347,350,354,355,358,359,360,364,365$, $371,372,380,388,397,400,402,405,410,413,425,431,434,435,440,448$, $453,464,468,473,475,480,487,493,498,500,516,522,524,525,535,550$, 591, 612, 665 |
| XL (Rubber) | $\begin{gathered} 5.08 \\ (0.200 ") \end{gathered}$ | $\begin{aligned} & 50,60,64,68,70,72,74,76,78,80,84,88,90,92,94,96,98,100,102,104,106 \text {, } \\ & 108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138 \text {, } \\ & 140,142,144,146,148,150,152,154,156,158,160,162,164,166,168,170 \text {, } \\ & 172,174,176,178,180,182,184,188,190,194,196,198,200,202,206,208 \text {, } \\ & 210,212,214,216,220,222,224,228,230,234,240,244,248,250,260,262 \text {, } \\ & 266,270,276,280,282,290,300,310,314,320,322,330,340,344,348,352 \text {, } \\ & 356,360,364,370,372,376,384,386,388,390,396,400,408,424,430,450 \text {, } \\ & 456,460,470,490,496,510,540,564,592,608,630,638,686,828,860,888 \text {, } \\ & 900,908,914,926,1014,1020 \end{aligned}$ |


| BELT TYPE | PITCH | BELT NUMBER |
| :---: | :---: | :---: |
| L <br> (Rubber) | $\underset{(0.375 ")}{9.525 \mathrm{~mm}}$ | $98,109,124,135,150,165,169,172,187,203,210,218,225,240,248,255,263$, $270,277,285,300,304,315,320,322,334,337,345,360,367,375,382,390$, 394, 420, 427, 436, 439, 446, 450, 465, 480, 510, 514, 525, 540, 548, 581, 600, $605,619,630,640,653,660,697,728,731,767,780,788,806,855,863,881$, 915, 919, 938, 1294 |
| H <br> (Rubber) | $\begin{gathered} 12.700 \mathrm{~mm} \\ \left(0.5^{\prime \prime}\right) \end{gathered}$ | $185,225,230,240,245,270,280,300,310,315,320,330,340,350,360,370$, $375,390,400,410,420,430,450,465,480,490,510,530,540,560,565,570$, $580,600,605,630,640,650,660,680,700,730,750,760,770,800,810,820$, 840, 850, 860, 880, 900, 950, 985, 1000, 1020, 1050, 1100, 1130, 1140, 1250, 1325, 1350, 1400, 1680, 1700 |
| XH <br> (Rubber) | $\begin{gathered} 22.225 \mathrm{~mm} \\ \left(0.875^{\prime \prime}\right) \end{gathered}$ | 507, 560, 630, 700, 735, 770, 840, 875, 927, 980, 1120, 1260, 1400, 1540, 1750 |
| XXH <br> (Rubber) | $\begin{gathered} 31.750 \mathrm{~mm} \\ \left(1.250^{\prime \prime}\right) \end{gathered}$ | 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 1915 |

※ For MXL (only) belt number equals number of teeth. All others refer to pitch length in inches.


## Features

- High torque capacity drive Unique tooth profile enables the belt to transmit higher power.
- Lower noise level

Smoother tooth engagement and direct contact of tooth top with the pulley grooves enables the belt to run quietly even at high speeds.

- Long service life

As the belt tooth meshes with the pulley grooves, the cord layer forms an almost true circle. This minimizes the cantilever effect on the cords, resulting in reduced bending fatigue and longer service life.

- No maintenance

No lubrication or retensioning required.

- Space saving

Due to higher power transmission capacity, the belt width and the pulley width can be designed more narrowly.
This means machine space can be reduced and the machine can be designed more compactly.

## Construction

1: Chloroprene rubber backing
2: Glass fiber tensile member
3: Chloroprene rubber teeth
4: Nylon canvas

## Dimensions



| Type | P | $H_{1}$ | $H_{2}$ | W |
| :---: | :---: | :---: | :---: | :---: |
| S1.5M | 1.5 mm | 1.12 mm | 0.57 mm | 0.98 mm |
| S2M | 2.0 mm | 1.31 mm | 0.76 mm | 1.3 mm |
|  | $\left(0.078^{\prime \prime}\right)$ | $\left(0.052^{\prime \prime}\right)$ | $\left(0.029^{\prime \prime}\right)$ | $\left(0.0511^{\prime \prime}\right)$ |
| S3M | 3.0 mm | 2.1 mm | 1.14 mm | 1.95 mm |
|  | $\left(0.118^{\prime \prime}\right)$ | $\left(0.083^{\prime \prime}\right)$ | $\left(0.044^{\prime \prime}\right)$ | $\left(0.076^{\prime \prime}\right)$ |
|  | 4.5 mm | 2.70 mm | 1.71 mm | 2.93 mm |
| S4.5M | $\left(0.177^{\prime \prime}\right)$ | $\left(0.106^{\prime \prime}\right)$ | $\left(0.067{ }^{\prime \prime}\right)$ | $\left(0.115^{\prime \prime}\right)$ |
| S5M | 5.0 mm | 3.61 mm | 1.91 mm | 3.25 mm |
|  | $\left(0.197^{\prime \prime}\right)$ | $\left(0.142^{\prime \prime}\right)$ | $\left(0.075^{\prime \prime}\right)$ | $\left(0.128^{\prime \prime}\right)$ |
|  | 8.0 mm | 5.3 mm | $3.05 m \mathrm{~mm}$ | 5.20 mm |
|  | $\left(0.315^{\prime \prime}\right)$ | $\left(0.212^{\prime \prime}\right)$ | $\left(0.120^{\prime \prime}\right)$ | $\left(0.205{ }^{\prime \prime}\right)$ |
| S14M | 14.0 mm | 10.2 mm | 5.30 mm | 9.10 mm |
|  | $\left(0.551^{\prime \prime}\right)$ | $\left(0.402^{\prime \prime}\right)$ | $\left(0.209^{\prime \prime}\right)$ | $\left(0.358^{\prime \prime}\right)$ |

## Size Mark

| $\frac{600}{58 \mathrm{~S} \frac{1000}{\square}}$ | Belt pitch length (1000mm) |
| ---: | :--- |
|  | Belt type (8mm tooth pitch) |
|  | Belt width $(\mathrm{mm}) \times 10(60 \mathrm{~mm})$ |

## Standard Belt Width

| Width Mark | 40 | 60 | 100 | 150 | 200 | 250 | 400 | 600 | 800 | 1000 | 1200 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Width (mm) | 4 | 6 | 10 | 15 | 20 | 25 | 40 | 60 | 80 | 100 | 120 |
| S1.5M | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |  |  |  |
| S2M | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |  |
| S3M |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |  |  |
| S4.5M |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |  |  |
| S5M |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |
| S8M |  |  |  | $\bigcirc$ |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |
| S14M |  |  |  |  |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |

## Standard Belt Length

| BELT TYPE | $\begin{aligned} & \text { BELT PITCH } \\ & (\mathrm{mm}) \end{aligned}$ | BELT NUMBER (PITCH LENGTH mm) |
| :---: | :---: | :---: |
| S1.5M (Rubber) | 1.5 | $92,93,95,98,99,101,102,108,119,134,150,158,161,164,165,168,174,180$, 185, 186, 204, 206, 210, 224, 225, 236, 240, 255, 261, 263, 273, 281, 288, 290, $303,305,315,335,390,441,444,480,1116$ |
| $\begin{gathered} \text { S2M } \\ \text { (Rubber) } \end{gathered}$ | 2.0 | $74,76,80,84,86,88,90,92,94,98,100,102,104,106,108,112,114,116,118$, $120,122,124,126,128,130,132,134,138,140,142,144,148,150,152,156$, $158,160,162,164,166,168,170,172,174,176,178,180,182,184,186,190$, 192, 194, 198, 200, 202, 204, 210, 212, 214, 216, 218, 220, 222, 224, 226, 230, 232, 234, 236, 238, 240, 242, 244, 248, 250, 254, 256, 258, 260, 262, 264, 266, 272, 274, 278, 280, 282, 284, 286, 288, 290, 292, 296, 300, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 338, 340, 342, 344, 350, 360, 364, 370, 372, 374, 376, 380, 386, 390, 396, 400, 406, 408, 416, 420, 426, 428, 438, $448,452,454,460,468,474,486,490,494,500,520,530,532,540,550,558$, 560, 572, 580, 594, 596, 600, 604, 606, 620, 630, 632, 650, 652, 656, 668, 676, 692, 700, 710, 742, 752, 754, 766, 796, 800, 810, 826, 898, 900, 940, 946, 950, $984,1000,1032,1036,1066,1074,1100,1110,1136,1154,1166,1224,1228$ |
| $\begin{gathered} \text { S3M } \\ \text { (Rubber) } \end{gathered}$ | 3.0 | $93,99,108,120,123,129,144,150,156,159,162,168,171,174,177,180,183$, 186, 189, 192, 195, 198, 201, 204, 207, 210, 213, 219, 222, 225, 228, 234, 237, 240, 243, 246, 249, 252, 255, 258, 264, 267, 270, 273, 276, 279, 282, 285, 288, 291, 297, 300, 303, 309, 312, 315, 318, 324, 327, 330, 333, 336, 339, 342, 351, 354, 360, 363, 366, 369, 372, 375, 378, 384, 387, 390, 396, 399, 402, 405, 408, 417, 420, 423, 426, 432, 438, 444, 447, 453, 459, 468, 471, 474, 480, 486, 489, $492,498,501,507,513,516,519,522,525,534,537,540,549,552,555,564$, 573, 579, 588, 597, 600, 609, 621, 633, 648, 657, 660, 666, 681, 690, 699, 726, 735, 741, 750, 768, 771, 789, 804, 810, 825, 852, 882, 885, 888, 900, 918, 927, 936, 990, 1119, 1134, 1146, 1188, 1299, 1419, 1530 |
| $\begin{gathered} \mathrm{S4.5M} \\ \text { (Rubber) } \end{gathered}$ | 4.5 | 162, 180, 198, 225, 239, 252, 279, 284, 315, 324, 351, 383, 396, 450, 491, 504, 518, 558, 563, 612, 630, 711, 729, 801, 1031, 2111 |
| $\begin{gathered} \text { S5M } \\ \text { (Rubber) } \end{gathered}$ | 5.0 | $225,230,255,275,295,300,320,325,350,375,380,390,400,410,420,425$, $435,440,445,450,475,490,500,520,525,550,560,565,570,575,600,625$, $635,645,650,665,670,675,695,700,710,725,740,750,765,770,775,800$, 810, 830, 850, 860, 870, 900, 920, 940, 950, 965, 975, 1000, 1025, 1050, 1125, $1135,1145,1195,1225,1250,1260,1270,1295,1350,1420,1595,1715,1800$, 2000 |
| $\begin{gathered} \text { S8M } \\ \text { (Rubber) } \end{gathered}$ | 8.0 | 352, 384, 408, 424, 456, 480, 520, 528, 560, 584, 600, 632, 640, 656, 672, 680, 712, 720, 728, 760, 800, 824, 840, 848, 880, 888, 896, 920, 944, 960, 976, 984, 1000, 1032, 1040, 1056, 1096, 1120, 1136, 1152, 1160, 1184, 1192, 1200, 1216, 1224, 1240, 1248, 1272, 1280, 1296, 1312, 1344, 1352, 1384, 1392, 1400, 1424, 1440, 1480, 1520, 1552, 1600, 1728, 1760, 1776, 1800, 1808, 1880, 1952, 2000, 2120, 2160, 2240, 2304, 2400, 2496, 2560, 2600, 2800, 2880, 2944, 3200, 3600, 3720, 3904, 4400 |
| $\begin{gathered} \text { S14M } \\ \text { (Rubber) } \end{gathered}$ | 14.0 | 1008, 1120, 1190, 1246, 1400, 1540, 1610, 1652, 1778, 1806, 1890, 1904, 1960, 2002, 2100, 2240, 2310, 2380, 2450, 2506, 2590, 2660, 2800, 3150, 3248, 3500, 3556, 3850, 4004, 4060, 4326, 4508, 5012 |

## Construction

1: Nylon canvas 2: Chloroprene rubber backing 3: Glass fiber tensile member

## Dimension and Size Mark

DOUBLE SIDED SYNCHRONOUS BELTS



Nominal length in mm Type

- Double Sided Nominal width in $\mathrm{mm} \times 10$

$\times 10$



## Standard Sizes

| Type | $P(m m)$ | Nominal Width | Nominal Length |
| :---: | :---: | :---: | :---: |
| DXL | 5.080 | $\begin{gathered} 025,031, \\ 037,050, \\ 075, \end{gathered}$ | 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 188, 190, 194, 196, 198, 200, 202, 206, 208, 210, 212, 214, 216, 220, 222, 224, 228, 230, 234, 240, 244, 248, 250, 260, 262, 266, 270, 276, 280, 282, 290, 300, 310, 314, 320, 322, 330, $340,344,348,352,356,360,364,370,372,376$, $384,386,388,390,396,400,408,424,430,450$, 456, 460, 470, 490, 496, 510, 540, 564, 592, 608, 630, 638 |
| DL | 9.525 | $\begin{gathered} 050,075, \\ 100,150, \\ 200, \end{gathered}$ | $165,169,172,187,203,210,218,225,240,248$, $255,263,270,277,285,300,304,315,320,322$, $334,337,345,360,367,375,382,390,394,420$, $427,436,439,446,450,465,480,510,514,525$, $540,548,581,600,605,619,630,640,653,660$, $697,728,731,767,780,788,806,855,863,881$, $915,919,938,1294$, |
| DH | 12.700 | $\begin{gathered} 075,100 \\ 150,200, \\ 300 \end{gathered}$ | $185,225,230,240,245,270,280,300,310,315$, $320,330,340,350,360,370,375,390,400,410$, $420,430,450,465,480,490,510,530,540,560$, $565,570,580,600,605,630,640,650,660,680$, $700,730,750,760,770,800,810,820,840,850$, $860,880,900,950,985,1000,1020,1050,1100$, $1130,1140,1250,1325,1350,1400,1680,1700$ |



| Type | $\mathrm{P}(\mathrm{mm})$ | Nominal Width | Nominal Length |
| :---: | :---: | :---: | :---: |
| DS2M | 2 | $\begin{gathered} 40,60 \\ 100 \end{gathered}$ | 300, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, $342,344,350,354,360,364,370,372,374,376$, 380, 386, 390, 396, 400, 406, 408, 410, 416, 420, 426, 428, 434, 436, 438, 440, 448, 452, 454, 456, $460,468,474,480,486,490,494,500,506,520$, $524,530,532,540,550,558,560,572,580,594$, 596, 600, 604, 606, 620, 630, 632, 650, 652, 654, 656, 660, 668, 676, 692, 700, 710, 726, 742, 752, 754, 766, 796, 800, 810, 826, 828, 848, 864, 898, 900, 940, 946, 950, 984, 1000, 1020, 1024, 1032, 1036, 1042, 1064, 1066, 1074, 1086, 1094, 1100, 1110, 1136, 1154 |
| DS3M | 3 | $\begin{gathered} 60 \\ 100, \\ 150 \end{gathered}$ | 300, 303, 306, 309, 312, 315, 318, 324, 327, 330, $333,336,339,342,351,354,360,363,366,369$, $372,375,378,384,387,390,396,399,402,405$, 408, 417, 420, 423, 426, 432, 438, 444, 447, 453, 459, 468, 471, 474, 480, 486, 489, 492, 498, 501, 507, 513, 516, 519, 522, 525, 534, 537, 540, 549, 552, 555, 564, 573, 579, 588, 597, 600, 609, 621, 633, 636, 648, 657, 660, 666, 681, 690, 699, 720, 726, 735, 741, 750, 768, 771, 789, 804, 810, 825, 852, 858, 882, 885, 888, 900, 909, 918, 927, 936, 954, 990, 999, 1014, 1050, 1119, 1134, 1146, 1176, 1188, 1299, 1419, 1530 |
| DS5M | 5 | ※ | 420, 425, 435, 440, 445, 450, 476, 490, 500, 520, $525,550,560,565,570,575,600,625,635,645$, 650, 665, 670, 675, 695, 700, 710, 725, 740, 750, $765,770,775,780,800,810,830,850,860,870$, 900, 920, 940, 950, 965, 975, 1000, 1025, 1050, 1085, 1125, 1135, 1145, 1195, 1225, 1250, 1260, 1270, 1295, 1350, 1420, 1595, 1715, 1800, 1860, 2000 |
| DS4.5M | 4.5 | $\begin{gathered} \hline 60,100, \\ 150 \\ \hline \end{gathered}$ | $\begin{aligned} & 450,491,504,518,558,563,612,630,711,729 \\ & 801,1031 \end{aligned}$ |
| DS8M | 8.0 | $\begin{aligned} & 150,250 \\ & 400,600 \end{aligned}$ | 480, 520, 528, 560, 584, 600, 632, 640, 656, 672, 680, 712, 720, 728, 760, 800, 824, 840, 848, 880, 888, 896, 920, 944, 960, 976, 984, 1000, 1032, 1040, 1056, 1096, 1120, 1136, 1152, 1160, 1184, 1192, 1200, 1216, 1224, 1240, 1248, 1272, 1280, 1296, 1312, 1344, 1352, 1384, 1392, 1400, 1424, 1440, 1480, 1520, 1552, 1600, 1728, 1760, 1776, 1800, 1808, 1880, 1952, 2000, 2120, 2160, 2240, 2304, 2400, 2496, 2560, 2600, 2800, 2880, 2944, 3200, 3500, 3720, 3904, 4400 |
| DS14M | 14.0 | $\begin{aligned} & 400, \\ & 600, \\ & 800, \\ & 1000, \\ & 1200 \end{aligned}$ | ```1400, 1540, 1610, 1652, 1778, 1806, 1890, 1904, 2002, 2100, 2240, 2310, 2380, 2450, 2506, 2590, 2660, 2800, 3150, 3248, 3500, 3556, 3850, 4004, 4060, 4326, 4508, 5012``` |

[^0]BANDO BANGOLLAN DOUBLE SIDED SYNCHBONOUS/STS BELTS


## Construction

1: Polyurethane teeth
2: DXL = Aramid
DT5, DT10 = Glass Fiber

## Dimension and Size Mark


※UK = Aramid UG = Glass Fiber

## Standard Sizes

| Type | $P(\mathrm{~mm})$ | Nominal <br> Width | Nominal Length |
| :---: | :---: | :---: | :---: |
| DXL | 5.080 | 025,031, <br> 037,050, <br> 075 | $140,146,150,166,170,180,190,200,210$, <br> $220,230,240,270,290,300,320,376,400$, <br> 430,490 |


| Type | $P(\mathrm{~mm})$ | Nominal <br> Width | Nominal Length |
| :---: | :---: | :---: | :---: |
| DT5 | 5.00 | $5,10,15$, <br> 20,25 | $300,410,460,480,515,550,590,620,650$, <br> $700,750,800,815,860,900,940,1075,1100$ |
| DT10 | 10.00 | 15,20, <br> $25,30,50$ | $260,530,630,660,700,720,800,840,900$, <br> $980,1100,1210,1240,1250,1320,1350$, <br> $1420,1500,1610,1800,1880$ |



## Dimensions



| Type | P | $\mathrm{H}_{1}$ | $\mathrm{H}_{2}$ |
| :---: | :---: | :---: | :---: |
| H 8 M | 8.0 mm | 5.3 mm | 3.5 mm |
| H 14 M | 14.0 mm | 10.2 mm | 6.0 mm |

## Construction

1: Chloroprene rubber backing
2: Glass fiber tensile member
3: Chloroprene rubber teeth
4: Nylon canvas

## Size Mark



Standard Belt Width


## Standard Sizes

| Belt Type | Belt number (Pictch length mm) |
| :---: | :--- |
| H 8 M | $384,424,480,560,600,624,640,656,680,720,760,800,840,856,880,896,920,960,1000,1040,1056,1064,1080,1120,1152,1160,1184,1192$, <br> $1200,1224,1248,1264,1280,1304,1360,1392,1400,1424,1440,1480,1512,1520,1584,1600,1680,1728,1760,1800,1904,2000,2056,2064,2080$, <br> $2104,2120,2160,2180,2240,2248,2272,2304,2360,2400,2432,2504,2584,2600,2648,2660,2720,2800,2904,2940,3000,3048,3072,3152$, <br> $3200,3248,3280,3352,3360,3448,3552,3600,3648,3752,3872,4000,4120,4248,4368,4400,4504,4624,4752,4872,5000$ |
|  | $966,1092,1190,1344,1400,1456,1540,1610,1680,1778,1890,2002,2058,2100,2114,2184,2198,2240,2296,2310,2366,2436,2450,2506,2576$, <br> $2590,2646,2716,2800,2898,2996,3066,3150,3248,3346,3360,3444,3500,3556,3654,3752,3850,3864,4004,4116,4256,4326,4368,4494,4578$, <br> $4620,4746,4872,4956,4998$ |

## BANDO BANGOLLAN SYNGHRONOUS BELTS



## Construction

1: Polyurethane backing
2: Glass Fiber tensile members (For MXL, Aramid tensile members)
3: Polyurethane teeth

## Features

- Non-slip

Accurate tooth dimensions and steel cord ensures minimal stretching, no slippage and constant speeds.

- High oil and ozone resistance.
- Special backside surfaces are available. Bando can mold virtually any special configuration on the belt's backside surface.


## Size Mark


(T2.5, T5, T10)

We recommend Bando Bancollan Synchronous Belts are ideal for the following conditions.

- For improved performance from the belt i.e. as a conveyor or print drive, special shapes or indications can be formed on the backside.
- High oil or ozone resistance.
- High shock load applications.


## Dimensions



| Type | P | W | $\mathrm{H}_{1}$ | $\mathrm{H}_{2}$ | $\theta$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MXL | $\begin{gathered} 2.032 \mathrm{~mm} \\ \left(0.080^{\prime \prime}\right) \end{gathered}$ | $\begin{aligned} & 0.76 \mathrm{~mm} \\ & \left(0.030^{\prime \prime}\right) \end{aligned}$ | $\begin{gathered} 1.2 \mathrm{~mm} \\ \left(0.043^{\prime \prime}\right) \end{gathered}$ | $\begin{aligned} & 0.51 \mathrm{~mm} \\ & \left(0.020^{\prime \prime}\right) \end{aligned}$ | $40^{\circ}$ |
| XL | $\begin{aligned} & \hline 5.08 \mathrm{~mm} \\ & (0.200 ") \end{aligned}$ | $\begin{aligned} & \text { 1.35mm } \\ & \left(0.053^{\prime \prime}\right) \end{aligned}$ | $\begin{aligned} & 2.25 \mathrm{~mm} \\ & \left(0.089^{\prime \prime}\right) \end{aligned}$ | $\begin{aligned} & 1.25 \mathrm{~mm} \\ & (0.049 ") \end{aligned}$ | $40^{\circ}$ |
| L | $\begin{gathered} 9.525 \mathrm{~mm} \\ (0.375 \mathrm{I}) \\ \hline \end{gathered}$ | $\begin{aligned} & 3.2 \mathrm{~mm} \\ & \left(0.126^{\prime \prime}\right) \end{aligned}$ | $\begin{gathered} \hline 3.5 \mathrm{~mm} \\ (0.138 ") \end{gathered}$ | $\begin{gathered} 1.9 \mathrm{~mm} \\ \left(0.075^{\prime \prime}\right) \end{gathered}$ | $40^{\circ}$ |
| T2.5 | $\begin{gathered} 2.5 \mathrm{~mm} \\ \left(0.098{ }^{\prime \prime}\right) \end{gathered}$ | $\begin{gathered} 1.0 \mathrm{~mm} \\ \left(0.039{ }^{\prime \prime}\right) \end{gathered}$ | $\begin{gathered} \hline 1.3 \mathrm{~mm} \\ (0.051 ") \end{gathered}$ | $\begin{gathered} \hline 0.7 \mathrm{~mm} \\ (0.028 \mathrm{n}) \end{gathered}$ | $40^{\circ}$ |
| T5 | $\begin{aligned} & \text { 5.0mm } \\ & \left(0.197{ }^{\prime \prime}\right) \end{aligned}$ | $\begin{aligned} & 1.80 \mathrm{~mm} \\ & \left(0.071^{\prime \prime}\right) \end{aligned}$ | $\begin{gathered} \hline 2.2 \mathrm{~mm} \\ (0.087 ") \end{gathered}$ | $\begin{gathered} 1.2 \mathrm{~mm} \\ \left(0.047{ }^{\prime \prime}\right) \end{gathered}$ | $40^{\circ}$ |
| T10 | $\begin{aligned} & \hline 10.0 \mathrm{~mm} \\ & (0.394 ") \end{aligned}$ | $\begin{aligned} & 3.5 \mathrm{~mm} \\ & (0.138 ") \end{aligned}$ | $\begin{gathered} \hline 4.5 \mathrm{~mm} \\ (0.177 ") \end{gathered}$ | $\begin{gathered} \hline 2.5 \mathrm{~mm} \\ (0.098 ") \end{gathered}$ | $40^{\circ}$ |

(XL, L)

|  | XL-025 U G |  |
| :---: | :---: | :---: |
|  |  | ${ }^{\square}$ Cord mark |
|  |  | Material mark (polyurethane) |
|  |  | Belt width 6.4mm (0.25") |
|  |  | Belt type |
|  |  | Pitch length in inches $\times 10\left(14^{\prime \prime} \times 10=140\right)$ |

For XL type, Aramid cord $(\mathrm{K})$ is available.

## BAMDO BANCOLLAN STS BELTS



Size Mark


## Dimensions



| Type | $P$ | $W$ | $H_{1}$ | $H_{2}$ | Cord <br> Mark |
| :---: | :---: | :---: | :---: | :---: | :---: |
| S2M | 2.0 mm | 1.3 mm | 1.4 mm | 0.76 mm | G <br> K |
| S3M | 3.0 mm | 1.95 mm | 2.0 mm | 1.14 mm | G <br> K |

[^1]
## BANDO

BANCOLLAN SYNCHRONOUS / STS BELTS

## Standard Sizes

| BELT TYPE | P (mm) | NOMINAL WIDTH | BELT NUMBER (PITCH LENG TH mm) |
| :---: | :---: | :---: | :---: |
| S2M <br> (Polyurethene) | 2.0 | 40,60, 100 | $76,78,80,86,90,92,100,102,106,110,112,114,116,120,122,126,128$, $138,140,142,144,148,158,160,164,166,168,170,172,176,180,184$, 186, 190, 200, 206, 214, 216, 218, 220, 224, 230, 234, 236, 238, 240, 250, 256, 258, 260, 264, 266, 280, 290, 296, 300, 314, 316, 320, 334, 340, 354, 360, 370, 380, 396, 400, 436, 440, 448, 454, 460, 474, 480, 488, 494, 500, 504, 520, 544, 548, 560, 580, 600, 620, 630, 654, 710, 754, 790, 800, 806, 828, *900, 976, *1000, *2250 |
| S3M (Polyurethene) | 3.0 | 60, 100, 150 | $120,144,150,159,162,171,174,177,186,192,195,201,204,210,213$, 219, 222, 225, 234, 237, 240, 246, 252, 255, 264, 267, 270, 276, 285, 300, 312, 318, 327, 339, 342, 354, 360, 378, 384, 390, 396, 402, 405, 417, 420, 432, 447, 453, 459, 486, 501, 504, 507, 513, 516, 519, 537, 564, 588, 600, 609, 633, 660, 666, 681, 699, 750, 765, 774, 789, 804, 810, 885, 900, 936, 951, 1005, 1050, 1146, 1260, 1383, 1596, 1800, 2100 |
| BELT <br> TYPE | $\mathrm{P}(\mathrm{mm})$ | NOMINAL WIDTH | BELT NUMBER (NO OF TEETH) |
| T2.5 (Polyurethene) | 2.500 | $3,5,7,10,13$ | $\begin{aligned} & 120,145,160,177.5,200,230,245,265,285,305,317.5,330,380,420,480 \\ & 492.5,500,600,620,650,780,915,950 \end{aligned}$ |
| T5 (Polyurethene) | 5.000 | 5, 10, 15, 20, 25 | $165,185,200,215,220,225,245,250,255,260,270,275,280,295,300$, $305,325,330,340,350,355,365,375,390,400,410,420,425,450,455$, $465,475,480,500,510,525,545,550,560,575,600,610,620,630,640$, $650,660,675,690,695,700,720,750,780,800,815,840,850,900,940$, $990,1000,1075,1100,1140,1215,1380,1440$ |
| T10 (Polyurethene) | 10.000 | 15, 20, 25, 30, 50 | 260, 370, 400, 410, 440, 450, 500, 530, 560, 610, 630, 660, 690, 700, 720, 750, 780, 810, 840, 880, 890, 900, 920, 960, 970, 980, 1000, 1010, 1080, 1110, 1140, 1150, 1210, 1240, 1250, 1300, 1320, 1350, 1390, 1400, 1420, 1440, 1450, 1460, 1500, 1560, 1610, 1750, 1780, 1880, 1960, 2250 |
| $\begin{gathered} \text { MXL } \\ \text { (Polyurethene) } \end{gathered}$ | 2.032 | $\begin{aligned} & 3.2,4.8,6.4,9.5, \\ & 12.7 \end{aligned}$ | $\begin{aligned} & 30,35,37,40,41,42,45,48,50,52,53,54,55,56,57,60,63,65,67,68,70, \\ & 71,72,73,75,76,79,80,81,82,83,85,87,88,90,91,94,95,97,98,100, \\ & 102,103,106,110,112,114,115,118,120,123,125,126,128,130,132, \\ & 134,136,140,144,150,155,157,160,165,170,175,180,184,190,194, \\ & 195,200,205,210,212,215,220,225,230,236,240,250,255,260,265, \\ & 270,280,295,300,305,310,330,336,340,347,350,360,438,453,468, \\ & 579,660 \end{aligned}$ |
| $\begin{aligned} & \text { BELT } \\ & \text { TYPE } \end{aligned}$ | $\mathrm{P}(\mathrm{mm})$ | NOMINAL WIDTH | BELT NUMBER (PITCH LENGTH INCHES×10) |
| $\begin{gathered} \text { XL } \\ \text { (Polyurethene) } \end{gathered}$ | 5.080 | $\begin{aligned} & 025,031,037, \\ & 050,075 \end{aligned}$ | $\begin{aligned} & 60,70,80,84,90,96,100,110,114,120,130,140,150,154,156,160,166 \text {, } \\ & 168,170,176,180,190,198,200,202,210,212,220,230,236,240,250, \\ & 254,260,270,290,300,320,330,376,396,414,430,460,478,480,490 \\ & 512,564,630,670,686,730 \end{aligned}$ |
| L (Polyurethene) | 9.525 | $\begin{aligned} & 050,075,100 \\ & 150,200 \end{aligned}$ | $\begin{aligned} & 124,150,165,187,210,225,240,255,270,285,300,322,345,360,367 \text {, } \\ & 390,420,450,480,510,540,600 \end{aligned}$ |

Bancollan Synchronous belts TN type is a highly precise, extra light-duty belt with a unique profile.
Features + Benefits

- Complete synchronized transmission
- Light drive system
- Calm and smooth drive


Size Mark

※CORD MARK
K=Aramid
T=Polyester
(As for TN10, polyester cord is only
available)

Standard Width
TN15

| Nominal Width | Width $(\mathrm{mm})$ |
| :---: | :---: |
| 3.0 | 3.0 |
| 5.0 | 5.0 |
| 7.0 | 7.0 |
| 10.0 | 10.0 |
| 13.0 | 13.0 |

TN10

| Nominal Width | Width (mm) |
| :---: | :---: |
| 1.0 | 1.0 |
| 2.0 | 2.0 |
| 3.0 | 3.0 |

Standard Sizes
TN15 Type

| BELT <br> NUMBER | Pitch length (mm) | Number of teeth | BELT <br> NUMBER | Pitch length (mm) | Number of teeth |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 43TN15 | 64.5 | 43 | 270TN15 | 405.0 | 270 |
| 50TN15 | 75.0 | 50 | 271TN15 | 406.5 | 271 |
| 60TN15 | 90.0 | 60 | 290TN15 | 435.0 | 290 |
| 63TN15 | 94.5 | 63 | 298TN15 | 447.0 | 298 |
| 79TN15 | 118.5 | 79 | $300 T N 15$ | 450.0 | 300 |
| 82TN15 | 123.0 | 82 | $310 T N 15$ | 465.0 | 310 |
| 100TN15 | 150.0 | 100 | $320 T N 15$ | 480.0 | 320 |
| $110 T N 15$ | 165.0 | 110 | 330 TN15 | 495.0 | 330 |
| 114TN15 | 171.0 | 114 | $334 T N 15$ | 501.0 | 334 |
| 120TN15 | 180.0 | 120 |  |  |  |
| 130TN15 | 195.0 | 130 | 339 TN15 | 508.5 | 339 |
| 131 TN15 | 196.5 | 131 | 340 TN15 | 510.0 | 340 |
| 140TN15 | 210.0 | 140 | 350TN15 | 525.0 | 350 |
|  |  |  | $360 T N 15$ | 540.0 | 360 |
|  |  |  | 370TN15 | 555.0 | 370 |
| 150TN15 | 225.0 | 150 | 380 TN15 | 570.0 | 380 |
| 160TN15 | 240.0 | 160 | 390 TN15 | 585.0 | 390 |
| 170TN15 | 255.0 | 170 | 400TN15 | 600.0 | 400 |
| 180TN15 | 270.0 | 180 | 421TN15 | 631.5 | 421 |
|  |  |  | 441TN15 | 661.5 | 441 |
| 186TN15 | 279.0 | 186 | 460TN15 | 690.0 | 460 |
| 190TN15 | 285.0 | 190 | 480TN15 | 720.0 | 480 |
| 192TN15 | 288.0 | 192 | $481 T N 15$ | 721.5 | 481 |
| $196 T N 15$ | 294.0 | 196 |  |  |  |
| 200TN15 | 300.0 | 200 |  |  |  |
| 220TN15 | 330.0 | 220 |  |  |  |
| 230 TN15 | 345.0 | 230 |  |  |  |
| 240TN15 | 360.0 | 240 |  |  |  |
| 250TN15 | 375.0 | 250 |  |  |  |
| 260TN15 | 390.0 | 260 |  |  |  |

TN10 Type

| BELT NUMBER | Pitch length (mm) | Number of teeth |
| :---: | :---: | :---: |
| 50TN10 | 50.0 | 50 |
| 60TN10 | 60.0 | 60 |
| 80TN10 | 80.0 | 80 |
| 81TN10 | 81.0 | 81 |
| 90TN10 | 90.0 | 90 |
| 98TN10 | 98.0 | 98 |
| 100TN10 | 100.0 | 100 |
| 107TN10 | 107.0 | 107 |
| 110TN10 | 110.0 | 110 |
| 120TN10 | 120.0 | 120 |
| 130TN10 | 130.0 | 130 |
| 140TN10 | 140.0 | 140 |
| 150TN10 | 150.0 | 150 |
| 160TN10 | 160.0 | 160 |
| 170TN10 | 170.0 | 170 |
| 200TN10 | 200.0 | 200 |
| 250TN10 | 250.0 | 250 |
| 287TN10 | 287.0 | 287 |
| $310 T N 10$ | 310.0 | 310 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |



## Construction

1: Rubber impregnated canvas
2: Polyester tensile members
3: Chloroprene insulation rubber
4: Chloroprene compression rubber

## Features

## FHP V-BELTS

Bando FHP V-Belts are built for maximum tension control, drive uniformity, and long life, with minimum heat build-up and stretching on low horsepower electric motoros and gasoline engines. They are designed for high speed and short center distance.

## MULTIPLE V-BELTS

For multiple drive, high speed, and high torque drives on light or heavy industrial or automotive machinery. Bando Multiple V-Belts have exceptional length stability and drive uniformity. Rigorous testing has shown these premium quality belts to have twice the service life and significantly greater transmission capacity than most other multiple V-Belts.

## Dimensions



|  |  | Top width a | Thickness b | Angle $\theta$ |
| :---: | :---: | :---: | :---: | :---: |
| FHP | 3L | 10.0mm (0.38") | 5.5 mm (0.22") | $40^{\circ}$ |
|  | 4L | 13.0 mm (0.50") | 8.0 mm (0.31") | $40^{\circ}$ |
|  | 5L | 17.0 mm (0.66") | 9.0 mm (0.38") | $40^{\circ}$ |
| Multiple | M | 10.0 mm (0.38") | 5.5 mm (0.22") | $40^{\circ}$ |
|  | A | 12.7 mm (0.50") | 8.0 mm (0.31") | $40^{\circ}$ |
|  | B | 16.7 mm (0.66") | 10.7 mm (0.41") | $40^{\circ}$ |
|  | C | 22.2 mm (0.88") | 13.5 mm (0.53") | $40^{\circ}$ |
|  | D | 32.0 mm (1.25") | 20.0 mm (0.75") | $40^{\circ}$ |
|  | E | 40.0 mm (1.50") | 25.5 mm (0.91") | $40^{\circ}$ |

## Size Mark

$\frac{3 \mathrm{~L}}{\frac{150}{\square}}$| Multiply outside length |
| :--- |
| in inches multiplied by 10 |
| $(15 " \times 10=150)$ |

Belt type

(15 $\times 10=150$ )

Standard Sizes

| Type | Size code |
| :---: | :---: |
| 3L | $\begin{aligned} & 150,160,170,180,190,200,210,220,230,240,250,260,270,280,290,300,310,320,330,340,350 \\ & 360,370,380,390,400,410,420,430,440,450,460,470,480,490,500,510,520,530,540,550,560 \\ & 570,580,590,600,610,620 \end{aligned}$ |
| 4L | 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, $590,600,610,620,630,640,650,660,670,680,690,700,710,720,730,740,750,760,770,780,790$, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000 |
| 5L | $\begin{aligned} & 230,240,250,260,270,280,290,300,310,320,330,340,350,360,370,380,390,400,410,420,430 \text {, } \\ & 440,450,460,470,480,490,500,510,520,530,540,550,560,570,580,590,600,610,620,630,640 \text {, } \\ & 650,660,670,680,690,700,710,720,730,740,750,760,770,780,790,800,810,820,830,840,850 \text {, } \\ & 860,870,880,890,900,910,920,930,940,950,960,970,980,990,1000 \end{aligned}$ |
| M | $\begin{aligned} & 20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48 \text {, } \\ & 49,50 \end{aligned}$ |
| A | $\begin{aligned} & 20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48 \text {, } \\ & 49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77 \text {, } \\ & 78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,105,110,112,120,128,136 \text {, } \\ & 144,158,173,180 \end{aligned}$ |
| B | $25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53$, $54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82$, $83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,100,101,103,105,108,111,112,120,124,128$, $133,136,144,158,162,173,180,195,210,225,240,255,270,285,300,315$ |
| C | $51,60,68,75,81,85,90,96,105,109,112,115,120,128,136,144,150,158,162,173,180,195,210$, $225,240,255,270,285,300,315,330,345,360,390,420,450,480$ |
| D | $\begin{aligned} & 120,128,144,158,162,173,180,195,210,225,240,255,270,285,300,315,330,345,360,390,420 \text {, } \\ & 450,480,540,600 \end{aligned}$ |
| E | 180, 195, 210, 240, 270, 300, 330, 360, 390, 420, 480, 540, 600 |



## Construction

1: Rubber impregnated canvas
2: Polyester tensile members
3: Chloroprene insulation rubber
4: Chloroprene compression rubber

## Features + Benefits

- Designed specifically for reverse-bend drives by positioning tensile members closer to the neutral axis and by making the belt a little thinner than conventional multiple V-Belts A, B, \& C sections.
- Particularly suitable for agricultural machinery such as combine harvesters and garden tillers where belts are often driven with a backside idler.


## Dimensions



| Type | Top width a |  | Thickness b |  | Angle $\theta$ |
| :---: | :---: | :---: | ---: | :--- | :---: |
| SA | 12.7 mm | $(0.5 ")$ | 7.0 mm | $\left(0.27^{\prime \prime}\right)$ | $40^{\circ}$ |
| SB | 16.7 mm | $\left(0.67^{\prime \prime}\right)$ | 9.0 mm | $\left(0.35^{\prime \prime}\right)$ | $40^{\circ}$ |
| SC | 22.2 mm | $\left(0.87^{\prime \prime}\right)$ | 11.0 mm | $\left(0.43^{\prime \prime}\right)$ | $40^{\circ}$ |

Service Life Comparison

| Specific Driving Conditions | Red-S | Multiple V-Belt |
| :---: | :---: | :---: |
| Reverse-bend drive | 450 | 100 |
| Oil contamination | 380 | 100 |
| Ambient temperature <br> $70^{\circ} \mathrm{C}$ | 450 | 100 |

Numerical values shown above represent indexes with multiple V belts as 100

## Size Mark



Standard Sizes

| Belt <br> type | $\begin{gathered} a \times b \\ (\mathrm{~mm}) \end{gathered}$ | Belt pitch length in inches |
| :---: | :---: | :---: |
| SA | $12.7 \times 7.0$ | $17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33$, $34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50$, $51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67$, $68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84$, $85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100$, $102,105,108,110,112,115,118,120,122,125,128,130$, $135,140,145,150,155,160,165,170,180,200,205,210$, 220, 225, 230, 235, 240, 250 |
| SB | $16.7 \times 9.0$ | $22,25,26,27,29,30,31,32,33,34,35,36,37,38,39,40,41$, $42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58$, $59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75$, $76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92$, $93,94,95,96,97,98,99,100,102,105,108,110,112,115$, $118,120,122,125,128,130,132,135,138,140,145,150$, 155, 160, 165, 170, 180, 190, 200, 210 |
| SC | $22.2 \times 11.0$ | $35,39,40,43,44,45,46,47,48,49,50,51,52,53,54,55,56$, $57,58,59,60,62,63,64,65,66,67,68,69,70,72,73,74,75$, $76,77,78,79,80,81,82,85,86,87,88,89,90,94,95,96,99$, $100,102,105,108,110,112,115,118,120,122,125,128$, $130,134,137,139,140,145,150,167,175$, |




## Construction

1: Rubber impregnated canvas
2: Aramid tensile members
3: Chloroprene insulation rubber
4: Fiber loaded chloroprene rubber
5: Chloroprene compression rubber
Features + Benefits
The Series W800 has heat and flex resistance superior to any other V-Belts, which makes it a top-end V-Belt for agricultural machinery use enabling high-load power transmission. You can be assured using this V-Belt in harsh environments.

## Dimensions



| Type | Top width a |  | Thickness b |  | Angle $\theta$ |
| :---: | :---: | :---: | ---: | :--- | :---: |
| SA | 12.7 mm | $(0.5 ")$ | 7.0 mm | $(0.27 ")$ | $40^{\circ}$ |
| SB | 16.7 mm | $\left(0.67^{\prime \prime}\right)$ | 9.0 mm | $(0.35 ")$ | $40^{\circ}$ |
| SC | 22.2 mm | $\left(0.87^{\prime \prime}\right)$ | 11.0 mm | $(0.43 ")$ | $40^{\circ}$ |

## Size Mark



Making full use of the Capabilities of Agricultural Machinery
As the functions and performance of agricultural machinery are increasingly improved, the quality of V-Belts used on such machinery must also be top quality.
There are cases now where the belts used on agricultural machinery should be of a higher grade than RED-S in order to fully complement the machinery's functions. To meet these demands BANDO has released the W800 Series of V - Belts for the agricultural machinery market.

## Features Comparison

|  | Standard V-Belt | RED-S II | W800 |
| :---: | :---: | :---: | :---: |
| Power transmission <br> capability | 100 | 150 | 300 |
| Service life against <br> reverse bending | 100 | 450 | 1800 |
| Service life against <br> shock | 100 | 150 | 450 |

※Numerical values shown above represent indexes with standard V-Belts as 100.

## Standard Sizes

| Belt type | $\mathrm{a} \times \mathrm{b}(\mathrm{mm})$ | Belt pitch length in inches |
| :---: | :---: | :---: |
| SA | $\begin{gathered} 12.7 \\ \times \\ 7.0 \end{gathered}$ | $27,28,29,30,31,32,33,34,35,36,37,38,39,40,41$, 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56, 57,58,59,60,61,62,63,64,65,66,67,68,69,70,71, $72,73,74,75,76,77,78,79,80,81,82,83,84,85,86$, 87,88,89,90,91,92,93,94,95,96,97,98,99,100 |
| SB | $\begin{gathered} 16.7 \\ \times \\ 9.0 \end{gathered}$ | $27,28,29,30,31,32,33,34,35,36,37,38,39,40,41$, $42,43,44,45,46,47,48,49,50,51,52,53,54,55,56$, 57,58,59,60,61,62,63,64,65,66,67,68,69,70,71, $72,73,74,75,76,77,78,79,80,81,82,83,84,85,86$, 87,88,89,90,91,92,93,94,95,96,97,98,99,100, 102,105,108,110,112,115,118,120,122,125,128, 130,132,135,138,140,145,150,155,160,165,170, 180,190,200 |
| SC | $\begin{gathered} 22.7 \\ \times \\ \times 11.0 \end{gathered}$ | (40), (43), (44), (45), (46), (47), 48, (49),50,51,52, $53,54,55,56,57,58,59,60,62,63,64,65,66,67,68$, 69,70,72,73,74,75,76,77,78,79,80,81,82,85,86, 87,88,89,90,94,95,96,99,100,102,105,108,110, 112,115,118,120,122,125,128,130,132,135,138, 140,142,145,148,150,155,160,165,170,180,190, 200 |

## V-BELTS (RUBBER)

## BANDO Double v-BELTS



## Construction

1: Rubber impregnated special woven canvas
2: Polyester tensile members
3: Chloroprene insulation rubber
4: Chloroprene compression rubber

## Features + Benefits

- Designed for reverse-bend serpentine drives by covering the belt with special woven fabric.
- New cross section for maintaining proper belt position in pulley groove even in the case of extreme reversebend drives.
- Due to greater flexibility created by the special woven fabric as well as the new cross section, service life has increased by about $40 \%$ over that of traditional.


## Dimensions



| Type | $\mathbf{a}(\mathrm{mm})$ | $\mathbf{b}(\mathrm{mm})$ | $\theta$ |
| :---: | :---: | :---: | :---: |
| AA | 12.5 | 10.3 | $40^{\circ}$ |
| BB | 16.5 | 13.5 |  |
| CC | 22.0 |  |  |

Size Mark


Typical reverse-bend serpentine drive


## Standard Sizes

| Type | Size number (Effective pitch length in inches) |
| :---: | :--- |
| AA | $50,53,56,60,63,67,71,75,80,85,90,95,100,106$, <br> $112,118,125,132,140$ |
| BB | $60,63,67,71,75,80,85,90,95,100,106,112,118$, <br> $125,132,140,150,160,170,180,190,200,212,224$, <br> 236,250 |
| CC | $132,140,150,160,170,180,190,200,212,224,236$, <br> $250,265,280,300$ |

※These sizes conform with JIS


## V-BELTS (RUBBER)

## BANDO powerace



## Construction

1: Rubber impregnated canvas
2: Polyester tensile members
3: Chloroprene insulation rubber
4: Special lateral reinforcing cord
5: Chloroprene compression rubber

## Features

- High horsepower rating

Requires about $1 / 3$ of the space needed by traditional multiple V-Belt drives.

- Long life
- High heat and oil resistance
- Length stability. A matched set of Bando POWER ACE for multiple belt drives retains superior uniformity under tension. A Bando matched set remains perfectly matched even after long periods of storage.
- By increasing the angle of the canvas weave from $90^{\circ}$ to $120^{\circ}$, transmission loss is reduced


## Size Mark

## Pulley

Use RMA Engineering Standards recommended pulley groove dimensions.
IP-22 (Specifications for drives using narrow multiple V -Belts).

## Dimensions



| Type | Top width a |  | Thickness b |  | Angle $\theta$ |
| :---: | ---: | :--- | ---: | :--- | :---: |
| 3 V | 9.5 mm | $(0.38 ")$ | 8.0 mm | $\left(0.32^{\prime \prime}\right)$ | $40^{\circ}$ |
| 5 V | 16.0 mm | $(0.62 ")$ | 13.5 mm | $\left(0.54^{\circ}\right)$ | $40^{\circ}$ |
| 8 V | 25.5 mm | $\left(1.0^{\circ}\right)$ | 23.0 mm | $\left(0.88^{\prime \prime}\right)$ | $40^{\circ}$ |



Power Ace

## outer jacket

(120 )

Conventional V-Belt outer jacket.
(90 )


## BANDO power ace

The superior power transmission capacity of the Bando narrow POWER ACE ${ }^{\circledR}$ V-Belts allows for drive designs with smaller components reducing machine space and cost. The higher efficiency of the POWER ACE ${ }^{\circledR}$ V-Belts will also result in decreased operating costs.
Just three types of Bando POWER ACE ideally cover all five sections of multiple V-Belts. For multiple or single drives, the 3 V replaces A , and B sections; the 5 V replaces C and D sections; and the 8 V replaces D and E sections.


Standard Sizes
※These sizes conform with RMA

| Belt number | Effective outside length |  | Belt number | Effective outside length |  | Belt number | Effective outside length |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | mm | inch |  | mm | inch |  | mm | inch |
| 3V 250 | 635 | 25.0 | 3V 475 | 1207 | 47.5 | 3V 900 | 2286 | 90.0 |
| 3V 265 | 673 | 26.5 | 3V 500 | 1270 | 50.0 | 3V 950 | 2413 | 95.0 |
| 3V 280 | 711 | 28.0 | 3V 530 | 1346 | 53.0 | 3V1000 | 2540 | 100.0 |
| 3V 300 | 762 | 30.0 | 3V 560 | 1422 | 56.0 | 3V1060 | 2692 | 106.0 |
| 3V 315 | 800 | 31.5 | 3V 600 | 1524 | 60.0 | 3V1120 | 2845 | 112.0 |
| 3V 335 | 851 | 33.5 | 3V 630 | 1600 | 63.0 | 3V1180 | 2997 | 118.0 |
| 3V 355 | 902 | 35.5 | 3V 670 | 1702 | 67.0 | 3V1250 | 3175 | 125.0 |
| 3V 375 | 953 | 37.5 | 3V 710 | 1803 | 71.0 | 3V1320 | 3353 | 132.0 |
| 3V 400 | 1016 | 40.0 | 3V 750 | 1905 | 75.0 | 3V1400 | 3556 | 140.0 |
| 3V 425 | 1080 | 42.5 | 3V 800 | 2032 | 80.0 |  |  |  |
| 3V 450 | 1143 | 45.0 | 3V 850 | 2159 | 85.0 |  |  |  |
| 5V 500 | 1270 | 50.0 | 5V1000 | 2540 | 100.0 | 5V2000 | 5080 | 200.0 |
| 5V 530 | 1346 | 53.0 | 5V1060 | 2692 | 106.0 | 5V2120 | 5385 | 212.0 |
| 5V 560 | 1422 | 56.0 | 5V1120 | 2845 | 112.0 | 5V2240 | 5690 | 224.0 |
| 5V 600 | 1524 | 60.0 | 5V1180 | 2997 | 118.0 | 5V2360 | 5994 | 236.0 |
| 5V 630 | 1600 | 63.0 | 5V1250 | 3175 | 125.0 | 5V2500 | 6350 | 250.0 |
| 5V 670 | 1702 | 67.0 | 5V1320 | 3353 | 132.0 | 5V2650 | 6731 | 265.0 |
| 5V 710 | 1803 | 71.0 | 5V1400 | 3556 | 140.0 | 5V2800 | 7112 | 280.0 |
| 5V 750 | 1905 | 75.0 | 5V1500 | 3810 | 150.0 | 5V2800 | 7620 | 300.0 |
| 5V 800 | 2032 | 80.0 | 5V1600 | 4064 | 160.0 | 5V3000 | 8001 | 315.0 |
| 5V 850 | 2159 | 85.0 | 5V1700 | 4318 | 170.0 | 5V3150 | 8509 | 335.0 |
| 5V 900 | 2286 | 90.0 | 5V1800 | 4572 | 180.0 | 5V3550 | 9017 | 355.0 |
| 5V 950 | 2413 | 95.0 | 5V1900 | 4826 | 190.0 |  |  |  |
| 8V1000 | 2540 | 100.0 | 8V1800 | 4572 | 180.0 | 8V3150 | 8001 | 315.0 |
| 8V1060 | 2692 | 106.0 | 8V1900 | 4826 | 190.0 | 8V3350 | 8509 | 335.0 |
| 8V1120 | 2845 | 112.0 | 8V2000 | 5080 | 200.0 | 8V3550 | 9017 | 355.0 |
| 8V1180 | 2997 | 118.0 | 8V2120 | 5385 | 212.0 | 8V3750 | 9525 | 375.0 |
| 8V1250 | 3175 | 125.0 | 8V2240 | 5690 | 224.0 | 8V4000 | 10160 | 400.0 |
| 8V1320 | 3353 | 132.0 | 8V2360 | 5994 | 236.0 | 8V4250 | 10795 | 425.0 |
| 8V1400 | 3556 | 140.0 | 8V2500 | 6350 | 250.0 | 8V4500 | 11430 | 450.0 |
| 8V1500 | 3810 | 150.0 | 8V2650 | 6731 | 265.0 | 8V4750 | 12065 | 475.0 |
| 8V1600 | 4064 | 160.0 | 8V2800 | 7112 | 280.0 | 8V5000 | 12700 | 500.0 |
| 8V1700 | 4318 | 170.0 | 8V3000 | 7620 | 300.0 | 8V5600 | 14224 | 560.0 |



## Construction

1. Canvas Top
2. Tensile Cord
3. Adhesion Rubber
4. Bottom Rubber

Features

- The cog-shaped bottom rubber enables use in compact transmission systems with small pulley diameters.
- Transmission capacity is $20-30 \%$ more than traditional POWER ACE, although the rate varies slightly depending on pulley diameter and rotation speed.
- High 'per-belt' capacity and low centrifugal force related loss make POWER ACE Cog suitable for high-speed transmission.

| Belt |  | Minimum pulley diameter |
| :---: | :---: | :---: |
| POWER ACE Cog | 3 VX | 56 |
|  | 5 VX | 112 |
| POWER ACE | 3 V | 67 |
|  | 5 V | 150 |

Standard Sizes

| Type | Size | Size |
| :---: | :---: | :---: |
| 3 VXX | $\sim 1200$ | $3 \mathrm{VXX} 250 \sim 3 \mathrm{VX1} 400$ |
|  | $1200 \sim$ |  |
| 5 FVX | $\sim 1200$ | $5 \mathrm{VX} 500 \sim 5 \mathrm{VX} 2000$ |
|  | $1200 \sim$ |  |


| Type | $\mathrm{a} \times \mathrm{b}$ (mm) | Size |
| :---: | :---: | :---: |
| 3V | $9.5 \times 8.0$ | 250, 265, 280, 300, 315, 335, 355, 375, 400, 425, 450, 475, 500, 530, 560, 600, 630, 670, 710, 750, 800, 850, 900, 950, 1000, 1060, 1120, 1180, 1250, 1320, 1400 |
| 5V | $16.0 \times 13.5$ | 500, 530, 560, 600, 630, 670, 710, 750, 800, 850, 900, 950, 1000, 1060, 1120, 1180, 1250, 1320, 1400, I500, 1600, I700, 1800, 1900, 2000, 2120, 2240, 2360, 2500, 2650, 2800, 3000, 3150, 3350, 3550 |
| 8V | $25.5 \times 23.0$ | 1000, 1060, 1120, 1180, 1250, 1320, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2120, 2240, 2360, 2500, 2650, 2800, 3000, 3150, 3350, 3550, 3750, 4000, 4250, 4500, 4750, 5000, 5600 |

## V-BELTS (RUBBER)

## BANDO NABBOW v-BELTS SPTTYPE



## Construction

1: Rubber impregnated canvas
2: Polyester tensile members
3: Chloroprene insulation rubber
4: Special lateral reinforcing cord
5: Chloroprene compression rubber

## Features

- High horsepower rating

Requires about $1 / 3$ of the space needed by traditional multiple V-Belt drives.

- Long life
- High heat and oil resistance
- Length stability. A matched set of Bando Narrow V-Belts for multiple belt drives retains superior uniformity under tension. A Bando matched set remains perfectly matched even after long periods of storage.
- Compared with conventional V-Belts. Bando Narrow $V$-Belts are can handle high loads.


## Standard Sizes

| Type | Effective inside length |
| :---: | :---: |
|  | mm |
| SPZ | $630 \sim 3550$ |
| SPA | $800 \sim 4500$ |
| SPB | $1250 \sim 8000$ |
| SPC | $2000 \sim 12500$ |

## Dimensions



| Type | Top width a | Thickness b | Angle $\theta$ |
| :---: | :---: | :---: | :---: |
| SPZ | 9.5 mm | 8.0 mm | $40^{\circ}$ |
| SPA | 13.0 mm | 10.0 mm | $40^{\circ}$ |
| SPB | 16.0 mm | 13.5 mm | $40^{\circ}$ |
| SPC | 22.0 mm | 18.0 mm | $40^{\circ}$ |

## Size Mark



Pulley
Use RMA Engineering Standards recommended pulley groove dimensions,
IP-22 (Specifications for drives using narrow multiple V-Belts).


## Construction

1: Rubber impregnated canvas
2: Polyester tensile members
3: Chloroprene insulation rubber
4: Chloroprene compression rubber
5: Rubber impregnated canvas

## Features + Benefits

- Flexibility

Cog pattern gives greater flexibility resulting in efficient heat dissipation.

- High power transmission capacity

Strong tensile members and transverse modulus provide high horsepower rating.

- High heat and oil resistance.
- Wide range of speed ratios.


## (1) Standard Sizes

Standard belt profiles are shown in Fig. 1 and sizes are listed in Fig. 2

## Dimensions



Size Mark


Belt type
Nominal number (Pitch length in mm)

Fig. 1 Standard Profiles

| Type | VA | VB | VC | VD | VE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Thickness $(\mathrm{b} \mathrm{mm})$ | 8.5 | 10 | 11.5 | 13.5 | 16 |  |
| Top width $(\mathrm{a} \mathrm{mm})$ | 25 | 31 | 41 | 52 | 66 |  |
| Pulley Groove Angle $\left(\alpha^{\circ}\right)$ | $30 \sim 34$ |  |  |  |  |  |

Fig. 2 Standard Sizes

| Nominal <br> No. | VA | VB | VC | VD | VE | Nominal <br> No. | VA | VB | VC | VD | VE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 560 | O |  |  |  |  | 1000 | O | O | O | O |  |
| 600 | O |  |  |  |  | 1030 |  |  | O | O |  |
| 615 | O |  |  |  |  | 1060 | O | O | O | O |  |
| 630 | O | O |  |  |  | 1090 |  |  | O | O | O |
| 650 | O | O |  |  |  | 1120 | O | O | O | O | O |
| 670 | O | O |  |  |  | 1150 |  |  | O | O | O |
| 690 | O | O |  |  |  | 1180 | O | O | O | O | O |
| 710 | O | O | O |  |  | 1220 |  |  | O | O | O |
| 730 | O | O | O |  |  | 1250 |  | O | O | O | O |
| 750 | O | O | O |  |  | 1280 |  |  | O | O | O |
| 775 | O | O | O |  |  | 1320 |  |  | O | O | O |
| 800 | O | O | O | O |  | 1360 |  |  | O | O | O |
| 825 | O | O | O | O |  | 1400 |  |  | O | O | O |
| 850 | O | O | O | O |  | 1450 |  |  | O | O | O |
| 875 |  | O | O | O |  | 1500 |  |  | O | O | O |
| 900 | O | O | O | O |  | 1550 |  |  | O | O | O |
| 925 |  | O | O | O |  | 1600 |  |  | O | O | O |
| 950 | O | O | O | O |  | 1700 |  |  |  | O | O |
| 975 |  | O | O | O |  | 1800 |  |  |  | O | O |

## (2) Semi-Standard Sizes

Semi-standard profiles are available within the range of top width and pulley groove angles shown in Fig.3. Belt lengths are as per Fig. 2

## Dimensions



Size Mark


Fig. 3 Semi-Standard Profiles

| Type | VA | VB | VC | VD | VE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Thickness (b mm) | 8.5 | 10 | 11.5 | 13.5 | 16 |  |
| Top width (a mm) | $16 \sim 32$ | $20 \sim 38$ | $24 \sim 45$ | $30 \sim 54$ | $37 \sim 67$ |  |
| Pulley Groove Angle $\alpha$ | $22 \sim 38$ |  |  |  |  |  |

## BAN|DO Energy-Saving Red



## Features

- Extremely small torque loss and improved transmission efficiency lead to energy savings.
- Energy-Saving Red can be installed and used on existing standard-V pulleys
- Long service life due to improved belt construction and reduced heat generation.
* Comparison results based on in-house testing.
- Compact - The same transmission capacity as Red, with about $30 \%$ less space required compared with standard V-belts


## Standard Sizes

| Belt <br> type | Size range |  |
| :---: | :---: | :---: |
|  | nominal length | effective pitched length(mm) |
| A | $20 \sim 360$ | $508 \sim 9144$ |
| B | $25 \sim 360$ | $508 \sim 9144$ |
| C | $35 \sim 360$ | $889 \sim 9144$ |
| D | $100 \sim 360$ | $2540 \sim 9144$ |

## Test result of Energy-Saving Red

- Transmission efficiency
(tension: 490N B50 3pcs $\phi 118-\phi 118$ )


- Energy consumption



|  | Motor Power <br> (Kw) | Energy Saving <br> $(\%)$ | Estimated annual energy <br> saving amount (Kwh) |
| :--- | :---: | :---: | :---: |
| Company A <br> (6 Air conditioning units) | $5.5 \sim 37.0$ | 5.3 | 37,600 (6units) |
| Company B <br> (Exhaust fan) | 37 | 6.3 | 16,700 |
| Company C <br> (Air handling unit) | 22 | 2.0 | 3,700 |
| Company D <br> (Exhaust fan) | 1.5 | 3.4 | 260 |
| Company E <br> (Exhaust fan) | 5.5 | 4.4 | 1,200 |

## BANDO

## Energy-Saving POWER ACE

Energy-Saving POWER ACE is an advanced V-Belt with the following features: compact design, high-speed operation, high-power transmission and long life.
The belt's excellent flexibility reduces bending stress and increases energy savings. Energy-Saving POWER ACE is available in $3 \mathrm{~V}, 5 \mathrm{~V}$, and 8 V .


## Standard Sizes

| Belt type | Size range |  |
| :---: | :---: | :---: |
|  | nominal length | effective outside length |
| 3V | $250 \sim 1400$ | $635 \sim 3556$ |
| 5V | $500 \sim 3550$ | $1270 \sim 9017$ |
| 8V | $1000 \sim 3550$ | $2540 \sim 9017$ |

※Please order with nominal length ※Belt length = effective outside length $=25.4 \mathrm{X}$ nominal length $/ 10$

## Test result of Energy-Saving POWER ACE

- Transmission efficiency

Transmission efficiency (tension: 490N 5V-530 1pcs $\phi 150-\phi 150$ )


- Energy saving test on existing machines (compared to POWER ACE)


|  | Motor Power | Energy Saving <br> (\%) | Estimated anual <br> energy saving <br> amount (Kwh) |
| :---: | :---: | :---: | :---: |
| Company A <br> (Pump) | 7.5 | 3.5 | 1,341 |
| Company B <br> (Pump) | 11 | 5.0 | 3,346 |
| Company C <br> (Machine) | 30 | 0.8 | 2,022 |
| Company D <br> (Blower) | 11 | 3.5 | 3,326 |
| Company E <br> (Mill) | 55 | 1.2 | 5,300 |



## Concept

At Bando we recognized the excellent qualities of the flat belt and we refined those qualities resulting in a next generation flat belt with further improved transmission capability: Bando "Hyper Flat Drive Belt (HFDB)". Further, we developed a meandering control and prevention device that autonomously controls the belt running position and by combining that device with auto-tensioner technology we overcame the meandering and loss of tension problems. We hope that you will use our next generation energy saving power transmission product, "HFD System", in your machines and equipment.

## Features

- Operation with ideal tension and improved transmission efficiency lead to energy savings
- Maintenace free is possible due to the longer service life and tension control by the auto tensioner.
- Because the belt is thin and has little flex distortion, compact layouts are possible as reverse flexion has no influence on durability.


## Standard Size (Belt Length)

| 600 | 630 | 670 | 710 | 750 | 800 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 850 | 900 | 950 | 1000 | 1060 | 1120 |
| 1180 | 1250 | 1320 | 1400 | 1500 | 1600 |
| 1700 | 1800 | 1900 | 2000 | 2120 | 2240 |
| 2360 | 2500 | 2650 | 2800 | 3000 |  |

## Transmission efficiency



Energy saving and $\mathrm{CO}_{2}$ reduction

<Energy saving results>
about 0.3kwh Power cost @ JPY 12/kwh
Results: JPY $12 \times 0.3 \mathrm{kwh} \times 10 \mathrm{~h} /$ day $\times 300$ days $/ \mathrm{year}=$ Cost reduction JPY 10,800/year

## <CO2 reduction>

$\mathrm{CO}_{2}$ conversion factor $=0.378 \mathrm{~kg} @ \mathrm{CO}_{2} / \mathrm{kwh}$ Reduction: $0.378 \times 0.3 \mathrm{kwh} \times 10 \mathrm{~h} /$ day $\times 300$ days $/$ year $\doteqdot 340 \mathrm{~kg} /$ year $\mathrm{CO}_{2}$ reduction
Note: $\mathrm{CO}_{2}$ reduction coefficient is according to a report from the Ministry of Global Environment Bureau dated July 2003.

## Compact layouts possible

(Compared to V-belt: about 40\% reduction)

|  |  | Fomer system | HFD system |
| :---: | :---: | :---: | :---: |
| Belt type |  | V-Belt Red | Flat belt |
| Test with 11 Kw |  | B 3pcs <br> $(50.1 \mathrm{~mm}$ width) | 20 mm width |
| Pulley <br> diameter | Drive pulley | $\phi 133 \mathrm{~mm}$ <br> 1750 rpm | $\phi 115 \mathrm{~mm}$ <br> 1750 rpm |
|  | Driven pulley | $\phi 710 \mathrm{~mm}$ | $\phi 612 \mathrm{~mm}$ |
| Center distance |  | 1220 mm | 500 mm |
| Pitch length |  | 3810 mm <br> $(150 \mathrm{inch})$ | 2542 mm |



## V-BELTS (POLYURETHANE)

## BANDO bancollan v-belts

V-COGGED BELTS (VC)


## Construction

1: Polyester tensile members
2: Polyurethane compression section.

## Features

- Space saving: Pulleys as small as $0.6^{\prime \prime}$ OD can be used.
- Clean operation: No "black rubber dust" problem.
- High oil resistance.


## Dimensions



|  | Type | Top width a |  | Thickness b |  | Angle $\theta$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 L | 6.5 mm | $(0.25 ")$ | 4.0 mm | $(0.16 ")$ | $40^{\circ}$ |
|  | 6 | 6.0 mm | $(0.24 ")$ | 4.0 mm | $\left(0.16^{\prime \prime}\right)$ | $40^{\circ}$ |
| DC | 6 | 6.0 mm | $(0.24 ")$ | 4.0 mm | $\left(0.16^{\prime \prime}\right)$ | $40^{\circ}$ |

DOUBLE COGGED V-BELTS (DC)


## Size Mark

(VC 2L types)

(VC-6 type)

(DC-6 type)


## Standard Sizes

| Type | Belt number | Outside length |  | Belt number | Outside length |  | Belt number | Outside length |  | Belt number | Outside length |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | mm | inch |  | mm | inch |  | mm | inch |  | mm | inch |
| VC 2L | 2L 080 | 203.2 | 8.0 | 2L 130 | 330.2 | 13.0 | 2L 180 | 457.2 | 18.0 | 2L 260 | 660.4 | 26.0 |
|  | 2L 090 | 228.6 | 9.0 | 2L 140 | 355.6 | 14.0 | 2L 190 | 482.6 | 19.0 | 2L 280 | 711.2 | 28.0 |
|  | 2L 100 | 254.0 | 10.0 | 2L 150 | 381.0 | 15.0 | 2L 200 | 508.0 | 20.0 | 2L 300 | 762.0 | 30.0 |
|  | 2L 110 | 279.4 | 11.0 | 2L 160 | 406.4 | 16.0 | 2L 220 | 558.8 | 22.0 | 2L 340 | 863.6 | 34.0 |
|  | 2L 120 | 304.8 | 12.0 | 2L 170 | 431.8 | 17.0 | 2L 240 | 609.6 | 24.0 |  |  |  |
| VC 6 | VC6X207 | 207.0 | 8.1 | VC6X349 | 349.0 | 13.7 | VC6X450 | 450.0 | 17.7 | VC6X613 | 613.0 | 24.1 |
|  | VC6X220 | 220.0 | 8.7 | VC6X350 | 350.0 | 13.8 | VC6X460 | 460.0 | 18.1 | VC6X628 | 628.0 | 24.7 |
|  | VC6X232 | 232.0 | 9.1 | VC6X360 | 360.0 | 14.2 | VC6X466 | 466.0 | 18.3 | VC6X650 | 650.0 | 25.6 |
|  | VC6X250 | 250.0 | 9.8 | VC6X370 | 370.0 | 14.6 | VC6X470 | 470.0 | 18.5 | VC6X663 | 663.0 | 26.1 |
|  | VC6X260 | 260.0 | 10.2 | VC6X380 | 380.0 | 14.96 | VC6X480 | 480.0 | 18.9 | VC6X700 | 700.0 | 27.6 |
|  | VC6X261 | 261.0 | 10.3 | VC6X381 | 381.0 | 15.0 | VC6X485 | 485.0 | 19.1 | VC6X713 | 713.0 | 28.1 |
|  | VC6X280 | 280.0 | 11.0 | VC6X390 | 390.0 | 15.4 | VC6X490 | 490.0 | 19.3 | VC6X730 | 730.0 | 28.7 |
|  | VC6X289 | 289.0 | 11.4 | VC6X400 | 400.0 | 15.7 | VC6X500 | 500.0 | 19.7 | VC6X750 | 750.0 | 29.5 |
|  | VC6X297 | 297.0 | 11.7 | VC6X407 | 407.0 | 16.0 | VC6X511 | 511.0 | 20.1 | VC6X760 | 760.0 | 29.9 |
|  | VC6X300 | 300.0 | 11.8 | VC6X410 | 410.0 | 16.1 | VC6X520 | 520.0 | 20.5 | VC6X764 | 764.0 | 31.1 |
|  | VC6X315 | 315.0 | 12.4 | VC6X414 | 414.0 | 16.3 | VC6X530 | 530.0 | 20.9 | VC6X800 | 800.0 | 31.5 |
|  | VC6X320 | 320.0 | 12.6 | VC6X420 | 420.0 | 16.5 | VC6X540 | 540.0 | 21.3 | VC6X821 | 821.0 | 32.3 |
|  | VC6X330 | 330.0 | 13.0 | VC6X430 | 430.0 | 16.9 | VC6X550 | 550.0 | 21.7 | VC6X850 | 850.0 | 33.5 |
|  | VC6X340 | 340.0 | 13.4 | VC6X432 | 432.0 | 17.0 | VC6X561 | 561.0 | 22.1 | VC6X866 | 866.0 | 34.1 |
|  | VC6X343 | 343.0 | 13.5 | VC6X440 | 440.0 | 17.3 | VC6X587 | 587.0 | 23.1 |  |  |  |
|  | VC6X345 | 345.0 | 13.6 | VC6X444 | 444.0 | 17.5 | VC6X600 | 600.0 | 23.6 |  |  |  |
| DC 6 | DC6X200 | 200.0 | 7.9 | DC6X277 | 277.0 | 10.9 | DC6X330 | 330.0 | 13.0 | VC6X380 | 380.0 | 15.0 |
|  | DC6X210 | 210.0 | 8.3 | DC6X280 | 280.0 | 11.0 | DC6X340 | 340.0 | 13.4 | VC6X390 | 390.0 | 15.4 |
|  | DC6X230 | 230.0 | 9.1 | DC6X290 | 290.0 | 11.4 | DC6X345 | 345.0 | 13.6 | VC6X400 | 400.0 | 15.7 |
|  | DC6X240 | 240.0 | 9.4 | DC6X300 | 300.0 | 11.8 | DC6X350 | 350.0 | 13.8 | VC6X450 | 450.0 | 17.7 |
|  | DC6X250 | 250.0 | 9.8 | DC6X310 | 310.0 | 12.2 | DC6X360 | 360.0 | 14.2 | VC6X500 | 500.0 | 19.7 |
|  | DC6X260 | 260.0 | 10.2 | DC6X315 | 315.0 | 12.4 | DC6X365 | 365.0 | 14.4 | VC6X540 | 540.0 | 21.3 |
|  | DC6X270 | 270.0 | 10.6 | DC6X320 | 320.0 | 12.6 | DC6X370 | 370.0 | 14.6 |  |  |  |



## Construction

1: Polyurethane
2: Polyester tensile members
3: Polyurethane compression section.

## Size Mark



## Features + Benefits

- Space saving

High horsepower rating and small pulley requirements permit compact designs.

- Smooth running

Belt runs very smoothly because of ground side wall.

- High speed drive

Because they are very light weight, Banflex belts can be driven at high speeds without excessive vibration or wear.

## Dimensions



| Type | Top width a |  | Thickness b |  |
| :---: | :---: | :---: | :---: | :---: |
| 3 M | 3.0 mm | $\left(0.12^{\prime \prime}\right)$ | 2.1 mm | $(0.08$ ") |
| 5 M | 5.0 mm | $\left(0.20^{\prime \prime}\right)$ | 3.3 mm | $\left(0.12^{\prime \prime}\right)$ |
| 7 M | 7.0 mm | $\left(0.28^{\prime \prime}\right)$ | 5.3 mm | $(0.20$ ") |
| 11 M | 11.0 mm | $\left(0.43^{\prime \prime}\right)$ | 6.9 mm | $\left(0.28^{\prime \prime}\right)$ |

## Standard Sizes

| Effective outside length |  | Type |  |  |  | Effective outside length |  | Type |  |  |  | Effective outside length |  | Type |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mm | inch | 3M | 5M | 7M | 11M | mm | inch | 3M | 5M | 7M | 11M | mm | inch | 3M | 5M | 7M | 11M |
| 180 | 7.1 | O |  |  |  | 437 | 17.2 | $\bigcirc$ | O |  |  | 1030 | 40.6 |  | 0 | $\bigcirc$ | $\bigcirc$ |
| 185 | 7.3 | O |  |  |  | 450 | 17.7 | $\bigcirc$ | $\bigcirc$ |  |  | 1060 | 41.7 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 190 | 7.5 | $\bigcirc$ |  |  |  | 462 | 18.2 | $\bigcirc$ | $\bigcirc$ |  |  | 1090 | 42.9 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 195 | 7.7 | $\bigcirc$ |  |  |  | 475 | 18.7 | $\bigcirc$ | $\bigcirc$ |  |  | 1120 | 44.1 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 200 | 7.9 | O |  |  |  | 487 | 19.2 | $\bigcirc$ | $\bigcirc$ |  |  | 1150 | 45.3 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 206 | 8.1 | O |  |  |  | 500 | 19.7 | $\bigcirc$ | $\bigcirc$ | O |  | 1180 | 46.5 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 212 | 8.3 | $\bigcirc$ |  |  |  | 515 | 20.3 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  | 1220 | 48.0 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 218 | 8.6 | 0 |  |  |  | 518 | 20.4 |  | $\bigcirc$ |  |  | 1250 | 49.2 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 224 | 8.8 | 0 |  |  |  | 530 | 20.9 | $\bigcirc$ | $\bigcirc$ | O |  | 1280 | 50.4 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 230 | 9.1 | $\bigcirc$ |  |  |  | 545 | 21.5 | $\bigcirc$ | O | O |  | 1320 | 52.0 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 236 | 9.3 | O |  |  |  | 560 | 22.0 | $\bigcirc$ | $\bigcirc$ | O |  | 1360 | 53.5 |  | O | $\bigcirc$ | $\bigcirc$ |
| 243 | 9.6 | O |  |  |  | 580 | 22.8 | $\bigcirc$ | $\bigcirc$ | O |  | 1400 | 55.1 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 250 | 9.8 | 0 |  |  |  | 600 | 23.6 | $\bigcirc$ | $\bigcirc$ | O |  | 1450 | 57.1 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 258 | 10.2 | 0 |  |  |  | 615 | 24.2 | $\bigcirc$ | $\bigcirc$ | O |  | 1500 | 59.1 |  | O | $\bigcirc$ | $\bigcirc$ |
| 265 | 10.4 | 0 |  |  |  | 630 | 24.8 | $\bigcirc$ | $\bigcirc$ | O |  | 1550 | 61.0 |  |  | $\bigcirc$ | $\bigcirc$ |
| 272 | 10.7 | $\bigcirc$ |  |  |  | 650 | 25.6 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  | 1600 | 63.0 |  |  | $\bigcirc$ | $\bigcirc$ |
| 280 | 11.0 | $\bigcirc$ | $\bigcirc$ |  |  | 670 | 26.4 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  | 1650 | 65.0 |  |  | $\bigcirc$ | $\bigcirc$ |
| 290 | 11.4 | $\bigcirc$ | $\bigcirc$ |  |  | 690 | 27.2 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  | 1700 | 66.9 |  |  | O | $\bigcirc$ |
| 300 | 11.8 | 0 | 0 |  |  | 710 | 28.0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1750 | 68.9 |  |  | O | $\bigcirc$ |
| 307 | 12.1 | O | O |  |  | 730 | 28.7 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1800 | 70.9 |  |  | O | $\bigcirc$ |
| 315 | 12.4 | $\bigcirc$ | $\bigcirc$ |  |  | 750 | 29.5 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1850 | 72.8 |  | O | $\bigcirc$ | $\bigcirc$ |
| 325 | 12.8 | $\bigcirc$ | $\bigcirc$ |  |  | 775 | 30.5 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1900 | 74.8 |  |  | $\bigcirc$ | $\bigcirc$ |
| 335 | 13.2 | $\bigcirc$ | $\bigcirc$ |  |  | 800 | 31.5 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1950 | 76.8 |  |  | $\bigcirc$ | $\bigcirc$ |
| 345 | 13.6 | $\bigcirc$ | $\bigcirc$ |  |  | 825 | 32.5 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2000 | 78.7 |  |  | $\bigcirc$ | $\bigcirc$ |
| 355 | 14.0 | O | O |  |  | 850 | 33.5 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2060 | 81.1 |  |  | O | $\bigcirc$ |
| 365 | 14.4 | $\bigcirc$ | $\bigcirc$ |  |  | 875 | 34.4 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2120 | 83.5 |  |  | $\bigcirc$ | $\bigcirc$ |
| 375 | 14.8 | $\bigcirc$ | $\bigcirc$ |  |  | 900 | 35.4 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2180 | 85.8 |  |  | $\bigcirc$ | $\bigcirc$ |
| 387 | 15.2 | $\bigcirc$ | $\bigcirc$ |  |  | 925 | 36.4 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2240 | 88.2 |  |  | $\bigcirc$ | $\bigcirc$ |
| 400 | 15.7 | O | O |  |  | 950 | 37.4 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2300 | 90.6 |  |  | O | $\bigcirc$ |
| 412 | 16.2 | O | 0 |  |  | 975 | 38.4 |  | 0 | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |  |
| 425 | 16.7 | $\bigcirc$ | $\bigcirc$ |  |  | 1000 | 39.4 |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |  |



## Construction

1: Polyurethane
2: Tie band
3: Polyester tensile members
4: Polyurethane compression section

## Features + Benefits

- Smooth high speed drive up to 12,000 feet $/ \mathrm{min}$.
- Low vibration without spin or jump off.
- Space saving

Small pulleys and high speed ratios make it possible to design compact and lightweight machines.

- Ideal for horizontal drives.
- High oil and ozone resistance.


## Dimensions



| Type |  | Top width a |  | Thickness b |  | Pitch P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | mm | inch | mm | inch |  |
| 5MS | 2 ribs | 9.8 | 0.39 | 3.3 | 0.13 | $\begin{aligned} & 5.3 \mathrm{~mm} \\ & \left(0.21^{\prime \prime}\right) \\ & \hline \end{aligned}$ |
|  | 3 ribs | 15.1 | 0.59 |  |  |  |
| 7MS | 2 ribs | 15.6 | 0.61 | 5.3 | 0.21 | $\begin{aligned} & 8.5 \mathrm{~mm} \\ & \left(0.33^{\prime \prime}\right) \\ & \hline \end{aligned}$ |
|  | 3 ribs | 24.1 | 0.95 |  |  |  |
| 11MS | 2 ribs | 24.4 | 0.96 | 7.0 | 0.28 | $\begin{aligned} & \hline 13.2 \mathrm{~mm} \\ & (0.52 ") \\ & \hline \end{aligned}$ |
|  | 3 ribs | 37.6 | 1.48 |  |  |  |

## Size Mark


※For more than 4 ribs we use a combination of belts.

| Number of ribs | Standard <br> combination | Number of ribs | Standard <br> combination |
| :---: | :---: | :---: | :---: |
| 4 | $2+2$ | 8 | $3+2+3$ |
| 5 | $2+3$ | 9 | $3+3+3$ |
| 6 | $3+3$ | 10 | $2+3+3+2$ |
| 7 | $2+3+2$ | 12 | $3+3+3+3$ |

Standard Sizes

| Outside length |  | Type |  |  | Outside length |  | Type |  |  | Outside length |  | Type |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mm | inch | 5MS | 7MS | 11 MS | mm | inch | 5MS | 7 MS | 11MS | mm | inch | 5MS | 7MS | 11MS |
| 280 | 11.0 | $\bigcirc$ |  |  | 580 | 22.8 | $\bigcirc$ | $\bigcirc$ |  | 1180 | 46.5 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 290 | 11.4 | $\bigcirc$ |  |  | 600 | 23.6 | $\bigcirc$ | $\bigcirc$ |  | 1220 | 48.0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 300 | 11.8 | $\bigcirc$ |  |  | 615 | 24.2 | $\bigcirc$ | $\bigcirc$ |  | 1250 | 49.2 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 307 | 12.1 | $\bigcirc$ |  |  | 630 | 24.8 | $\bigcirc$ | $\bigcirc$ |  | 1280 | 50.4 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 315 | 12.4 | $\bigcirc$ |  |  | 650 | 25.6 | $\bigcirc$ | $\bigcirc$ |  | 1320 | 52.0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 325 | 12.8 | $\bigcirc$ |  |  | 670 | 26.4 | $\bigcirc$ | $\bigcirc$ |  | 1360 | 53.5 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 335 | 13.2 | $\bigcirc$ |  |  | 690 | 27.2 | $\bigcirc$ | $\bigcirc$ |  | 1400 | 55.1 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 345 | 13.6 | $\bigcirc$ |  |  | 710 | 28.0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1450 | 57.1 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 355 | 14.0 | $\bigcirc$ |  |  | 730 | 28.7 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1500 | 59.1 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 365 | 14.4 | $\bigcirc$ |  |  | 750 | 29.5 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1550 | 61.0 |  | $\bigcirc$ | $\bigcirc$ |
| 375 | 14.8 | $\bigcirc$ |  |  | 775 | 30.5 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1600 | 63.0 |  | $\bigcirc$ | $\bigcirc$ |
| 387 | 15.2 | $\bigcirc$ |  |  | 800 | 31.5 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1650 | 65.0 |  | $\bigcirc$ | $\bigcirc$ |
| 400 | 15.7 | $\bigcirc$ |  |  | 825 | 32.5 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1700 | 66.9 |  | $\bigcirc$ | $\bigcirc$ |
| 412 | 16.2 | $\bigcirc$ |  |  | 850 | 33.5 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1750 | 68.9 |  | $\bigcirc$ | $\bigcirc$ |
| 425 | 16.7 | $\bigcirc$ |  |  | 875 | 34.4 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1800 | 70.9 |  | $\bigcirc$ | $\bigcirc$ |
| 437 | 17.2 | $\bigcirc$ |  |  | 900 | 35.4 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1850 | 72.8 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| 450 | 17.7 | $\bigcirc$ |  |  | 925 | 36.4 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1900 | 74.8 |  | $\bigcirc$ | $\bigcirc$ |
| 462 | 18.2 | $\bigcirc$ |  |  | 950 | 37.4 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 1950 | 76.8 |  | $\bigcirc$ | $\bigcirc$ |
| 475 | 18.7 | $\bigcirc$ |  |  | 975 | 38.4 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2000 | 78.7 |  | $\bigcirc$ | $\bigcirc$ |
| 487 | 19.2 | $\bigcirc$ |  |  | 1000 | 39.4 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2060 | 81.1 |  | $\bigcirc$ | $\bigcirc$ |
| 500 | 19.7 | $\bigcirc$ | $\bigcirc$ |  | 1030 | 40.6 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2120 | 83.5 |  | $\bigcirc$ | $\bigcirc$ |
| 515 | 20.3 | $\bigcirc$ | $\bigcirc$ |  | 1060 | 41.7 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2180 | 85.8 |  | $\bigcirc$ | $\bigcirc$ |
| 530 | 20.9 | $\bigcirc$ |  |  | 1090 | 42.9 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2240 | 88.2 |  | $\bigcirc$ | $\bigcirc$ |
| 545 | 21.5 | $\bigcirc$ | $\bigcirc$ |  | 1120 | 44.1 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | 2300 | 90.6 |  | $\bigcirc$ | $\bigcirc$ |
| 560 | 22.0 | $\bigcirc$ | $\bigcirc$ |  | 1150 | 45.3 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |  |  |  |  |  |

## BANDED BELTS (RUBBER)

## BANDO POWER SGRUM



Multiple V-Belt type

## Construction

1: Tie-band
2: Polyester tensile members
3: Chloroprene insulation rubber
4: Rubber impregnated canvas
5: Chloroprene compression rubber
Features + Benefits

- Permanent matched set.
- No lateral whip, spin, or turn over.
- Deep pulley grooves are not required even on horizontal drives.
- Heat and oil resistant.


## Size Mark

(Multiple V-Belt type)

(POWER ACE type)


Number of belts in band


POWER ACE type

## Dimensions



| Type | Top width of <br> one belt a | Thickness b | Angle $\theta$ | Pitch between <br> two belts e |
| :---: | :---: | :---: | :---: | :---: |
| A | 12.7 mm | 10.0 mm | 40 | 15.0 mm |
| B | 16.7 mm | 13.0 mm | 40 | 19.0 mm |
| C | 22.2 mm | 16.0 mm | 40 | 25.5 mm |
| D | 31.7 mm | 21.5 mm | 40 | 37.0 mm |
| 3V | 9.5 mm | 10.0 mm | 40 | 10.3 mm |
| 5V | 15.9 mm | 16.0 mm | 40 | 17.5 mm |
| 8V | 25.4 mm | 25.0 mm | 40 | 28.6 mm |

※For more than 6ribs we use a combination of belts.

| Number of ribs | Standard <br> combination | Number of ribs | Standard <br> combination |
| :---: | :---: | :---: | :---: |
| - | - | 11 | $4+3+4$ |
| 2 | 2 | 12 | $4+4+4$ |
| 3 | 3 | 13 | $4+5+4$ |
| 4 | 4 | 14 | $5+4+5$ |
| 5 | 5 | 15 | $5+5+5$ |
| 6 | $3+3$ | 16 | $4+4+4+4$ |
| 7 | $3+4$ | 17 | $4+4+5+4$ |
| 8 | $4+4$ | 18 | $5+4+4+5$ |
| 9 | $4+5$ | 19 | $5+4+5+5$ |
| 10 | $5+5$ | 20 | $5+5+5+5$ |

BANDED V-BELTS (RUBBER)

## BAMDO POWER SCRUM

## Standard Sizes

POWER ACE
※These sizes conform with JIS.

| Type | Belt number | Outside length |  | Belt number | Outside length |  | Belt number | Outside length |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | mm | inch |  | mm | inch |  | mm | inch |
| 3 V | 3V 400 | 1,016 | 40.0 | 3V 630 | 1,600 | 63.0 | 3V1000 | 2,540 | 100.0 |
|  | 3V 425 | 1,080 | 42.5 | 3V 670 | 1,702 | 67.0 | 3V1060 | 2,692 | 106.0 |
|  | 3V 450 | 1,143 | 45.0 | 3V 710 | 1,803 | 71.0 | 3V1120 | 2,845 | 112.0 |
|  | 3V 475 | 1,207 | 47.5 | 3V 750 | 1,905 | 75.0 | 3V1180 | 2,997 | 118.0 |
|  | 3 V 500 | 1,270 | 50.0 | $3 V 800$ | 2,032 | 80.0 | 3V1250 | 3,175 | 125.0 |
|  | 3V 530 | 1,346 | 53.0 | 3V 850 | 2,159 | 85.0 | 3V1320 | 3,353 | 132.0 |
|  | 3V 560 | 1,422 | 56.0 | 3 V 900 | 2,286 | 90.0 | 3V1400 | 3,556 | 140.0 |
|  | 3V 600 | 1,525 | 60.0 | 3V 950 | 2,413 | 95.0 |  |  |  |
| 5V | 5 V 600 | 1,524 | 60.0 | 5 V 1120 | 2,845 | 112.0 | 5 V 2120 | 5,385 | 212.0 |
|  | 5V 630 | 1,600 | 63.0 | 5V1180 | 2,997 | 118.0 | 5 V 2240 | 5,690 | 224.0 |
|  | 5V 670 | 1,702 | 67.0 | 5V1250 | 3,175 | 125.0 | 5 V 2360 | 5,994 | 236.0 |
|  | 5V 710 | 1,803 | 71.0 | 5V1320 | 3,353 | 132.0 | 5 V 2500 | 6,350 | 250.0 |
|  | 5 V 750 | 1,905 | 75.0 | 5V1400 | 3,556 | 140.0 | 5 V 2650 | 6,731 | 265.0 |
|  | 5 V 800 | 2,032 | 80.0 | 5V1500 | 3,810 | 150.0 | 5 V 2800 | 7,112 | 280.0 |
|  | 5 V 850 | 2,159 | 85.0 | 5V1600 | 4,064 | 160.0 | 5 V 3000 | 7,620 | 300.0 |
|  | 5 V 900 | 2,286 | 90.0 | 5V1700 | 4,318 | 170.0 | 5 V 3150 | 8,001 | 315.0 |
|  | 5V 950 | 2,413 | 95.0 | 5V1800 | 4,572 | 180.0 | 5 V 3350 | 8,509 | 335.0 |
|  | 5V1000 | 2,540 | 100.0 | 5V1900 | 4,826 | 190.0 | 5V3550 | 9,017 | 355.0 |
|  | 5V1060 | 2,692 | 106.0 | 5V2000 | 5,080 | 200.0 |  |  |  |
| 8V | 8V1000 | 2,540 | 100.0 | 8V1800 | 4,572 | 180.0 | 8 V 3150 | 8,001 | 315.0 |
|  | 8V1060 | 2,692 | 106.0 | 8V1900 | 4,826 | 190.0 | 8V3350 | 8,509 | 335.0 |
|  | 8V1120 | 2,845 | 112.0 | 8 V 2000 | 5,080 | 200.0 | 8 V 3550 | 9,017 | 355.0 |
|  | 8 V 1180 | 2,997 | 118.0 | 8 V 2120 | 5,385 | 212.0 | 8 V 3750 | 9,525 | 375.0 |
|  | 8 V 1250 | 3,175 | 125.0 | 8 V 2240 | 5,690 | 224.0 | 8 V 4000 | 10,160 | 400.0 |
|  | 8V1320 | 3,353 | 132.0 | 8 V 2360 | 5,994 | 236.0 | 8 V 4250 | 10,795 | 425.0 |
|  | 8V1400 | 3,556 | 140.0 | 8 V 2500 | 6,350 | 250.0 | 8 V 4500 | 11,430 | 450.0 |
|  | 8V1500 | 3,810 | 150.0 | 8 V 2650 | 6,731 | 265.0 | 8 V 4750 | 12,065 | 475.0 |
|  | 8V1600 | 4,064 | 160.0 | 8 V 2800 | 7,112 | 280.0 | 8 V 5000 | 12,700 | 500.0 |
|  | 8V1700 | 4,318 | 170.0 | 8V3000 | 7,620 | 300.0 | 8V5600 | 14,224 | 560.0 |

V-Belt type
Recommended pulley groove pitch

| Type | Minimum effective <br> pitch length |  | Maximum effective <br> pitch length |  |
| :---: | :---: | :---: | :---: | :---: |
|  | mm | inch | mm | inch |
| A | 1,524 | 60 | 5,080 | 200 |
| B | 1,524 | 60 | 8,890 | 350 |
| C | 2,540 | 100 | 8,890 | 350 |
| D | 2,540 | 100 | 8,890 | 350 |



| Type | Pulley pitch P |  |
| :---: | :---: | :---: |
|  | mm | inch |
| A | 15.0 | 0.59 |
| B | 19.0 | 0.75 |
| C | 25.5 | 1.00 |
| D | 37.0 | 1.46 |


| Type | Pulley pitch P |  |
| :---: | :---: | :---: |
|  | mm | inch |
| 3 V | 10.3 | 0.41 |
| 5 V | 17.5 | 0.69 |
| 8 V | 28.6 | 1.13 |

## V-RIBBED BELTS (RUBBER)



## Construction

1: Canvas Top
2: Adhesion rubber
3: Tensile cord
4: Rib rubber

## Features

- Compact design

More compact design is possible because Rib Ace II can be used with smaller pulleys.

- High-speed operation

Suitable for high-speed applications up to $50 \mathrm{~m} / \mathrm{s}$ as there is little centrifugal force related loss.

- Highly accurate with little belt vibration Due to the manufacturing process used (grinding) the ribs are all connected resulting in smooth running and less rotational uneveness.
- Highly efficient transmission (Low power loss) Compared to V-Belt, RIB ACE II is thinner and has less flexion loss resulting in high transmission efficiency.
- Low maintenance owing to a stable tension Due to better deformation and abrasion resistance than V-belts, RIB ACE II is less likely to sink into pulleys meaning longer periods between maintenance.

Belt profile dimensions and notation


|  | $\mathbf{P}$ | $\mathbf{H}$ | $\mathbf{h}$ | $\mathbf{a}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{m m}$ | $\mathbf{m m}$ | $\mathbf{m m}$ | $\left({ }^{\circ}\right)$ |
|  | 2.34 | 3.4 | 1.3 | 40 |
| PK | 3.56 | 4.3 | 2.0 | 40 |
| PL | 4.70 | 6.0 | 3.3 | 40 |

Standard Sizes
Unit: mm

| Belt effective length |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: |
| PJ |  | PK |  | PL |  |
| 273 | 887 | 600 | 1220 | 540 | 1520 |
| 294 | 911 | 615 | 1250 | 605 | 1555 |
| 332 | 937 | 630 | 1280 | 655 | 1645 |
| 353 | 962 | 650 | 1320 | 700 | 1720 |
| 401 | 988 | 670 | 1360 | 730 | 1750 |
| 454 | 1013 | 690 | 1400 | 825 | 1850 |
| 480 | 1089 | 710 | 1450 | 850 | 1900 |
| 502 | 1140 | 730 | 1500 | 870 | 1975 |
| 530 | 1165 | 750 | 1550 | 875 | 2065 |
| 556 | 1191 | 775 | 1600 | 880 | 2115 |
| 567 | 1201 | 800 | 1650 | 905 | 2190 |
| 594 | 1242 | 825 | 1700 | 915 | 2360 |
| 607 | 1318 | 850 | 1750 | 950 | 2470 |
| 619 | 1343 | 875 | 1800 | 975 | 2575 |
| 634 |  | 900 | 1850 | 1000 | 2695 |
| 657 |  | 925 | 1900 | 1035 | 2840 |
| 704 |  | 950 | 1950 | 1050 | 3045 |
| 708 |  | 975 | 2000 | 1055 |  |
| 759 |  | 1000 | 2120 | 1070 |  |
| 777 |  | 1030 | 2240 | 1190 |  |
| 797 |  | 1060 | 2360 | 1240 |  |
| 817 |  | 1090 | 2500 | 1305 |  |
| 835 |  | 1120 | 2650 | 1340 |  |
| 852 |  | 1150 | 2800 | 1365 |  |
| 861 |  | 1180 | 3000 | 1445 |  |

## Standard number of ribs

| PJ | 3PJ~18PJ |
| :---: | :---: |
| PK | $3 P K \sim 12 P K$ |
| PL | $3 P L \sim 12 P L$ |



## Construction

1: Polyurethane
2: Polyamid tensile members
3: Polyurethane
Features + Benefits

- Suitable for fixed center distance applications. The belt's elasticity allows for easy installation on fixed center distance pulleys without tools.
- Withstands high shock load.

Polyamid tensile members protect belts from shock load damage, making them well-suited for small machines and other high speed/high shock load applications.

- High speed.
- Space saving

Small pulley requirement permits smaller, more compact designs.

## Dimensions

(H type)

(J type)


| Type | Pitch <br> P | Total thickness <br> $\mathbf{a}$ | Rib thickness <br> b | Angle <br> $\theta$ |
| :---: | :---: | :---: | :---: | :---: |
| H | 1.6 mm <br> $\left(0.063^{\prime \prime}\right)$ | 2.5 mm <br> $\left(0.098^{\prime \prime}\right)$ | 1.0 mm <br> $(0.039$ " $)$ | $40^{\circ}$ |
|  | 2.4 mm <br> $\left(0.094^{\prime \prime}\right)$ | 4.05 mm <br> $\left(0.157{ }^{\prime \prime}\right)$ | 2.3 mm <br> $(0.091 ")$ | $40^{\circ}$ |

## Size Mark



## Standard Sizes

| Type | Belt number | Pitch length |  | Belt number | Pitch length |  | Belt number | Pitch length |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | mm | inch |  | mm | inch |  | mm | inch |
| H (Polyurethane) | $\begin{array}{r} 63 \mathrm{H} \\ 71 \mathrm{H} \\ 80 \mathrm{H} \\ 85 \mathrm{H} \\ 90 \mathrm{H} \\ 95 \mathrm{H} \\ 100 \mathrm{H} \\ 106 \mathrm{H} \\ 112 \mathrm{H} \\ 118 \mathrm{H} \\ 125 \mathrm{H} \end{array}$ | $\begin{aligned} & 203.2 \\ & 215.9 \\ & 228.8 \\ & 24.3 \\ & 254.0 \\ & 269.2 \\ & 285.4 \\ & 299.7 \\ & 317.5 \end{aligned}$ | $\begin{array}{r} 8.0 \\ 8.5 \\ 9.0 \\ 9.5 \\ 10.0 \\ 10.6 \\ 11.2 \\ 11.8 \\ 12.5 \end{array}$ | $\begin{aligned} & 132 \mathrm{H} \\ & 136 \mathrm{H} \\ & 140 \mathrm{H} \\ & 147 \mathrm{H} \\ & 150 \mathrm{H} \\ & 160 \mathrm{H} \\ & 170 \mathrm{H} \\ & 180 \mathrm{H} \\ & 190 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 335.3 \\ & 345.4 \\ & 355.6 \\ & 373.4 \\ & 381.0 \\ & 406.4 \\ & 431.8 \\ & 457.2 \\ & 482.6 \end{aligned}$ | $\begin{aligned} & 13.2 \\ & 13.6 \\ & 14.0 \\ & 14.7 \\ & 15.0 \\ & 16.0 \\ & 17.0 \\ & 18.0 \\ & 19.0 \end{aligned}$ | $\begin{aligned} & 200 \mathrm{H} \\ & 214 \mathrm{H} \\ & 215 \mathrm{H} \\ & 221 \mathrm{H} \\ & 230 \mathrm{H} \\ & 235 \mathrm{H} \\ & 304 \mathrm{H} \end{aligned}$ | 508.0 <br> 543.2 <br> 547.0 <br> 562.0 <br> 584.2 <br> 596.9 <br> 772.2 | $\begin{aligned} & 20.0 \\ & 21.4 \\ & 21.5 \\ & 22.1 \\ & 23.0 \\ & 23.5 \\ & 30.4 \end{aligned}$ |
| $\underset{\text { (Polyurethane) }}{\mathbf{J}}$ | $\begin{array}{r} \hline 81 \mathrm{~J} \\ 82 \mathrm{~J} \\ 85 \mathrm{~J} \\ 90 \mathrm{~J} \\ 95 \mathrm{~J} \\ 97 \mathrm{~J} \\ 99 \mathrm{~J} \\ 108 \mathrm{~J} \\ 116 \mathrm{~J} \\ 117 \mathrm{~J} \\ 122 \mathrm{~J} \\ 125 \mathrm{~J} \\ 130 \mathrm{~J} \end{array}$ | 205.3 <br> 209.1 <br> 215.9 <br> 228.6 <br> 241.3 <br> 247.3 <br> 251.3 <br> 273.8 <br> 293.5 <br> 297.0 <br> 309.9 <br> 317.5 <br> 330.0 | 12.5 8.1 8.2 8.5 9.0 9.5 9.7 9.9 10.8 11.6 11.7 12.2 12.5 13.0 | $\begin{aligned} & \hline 135 \mathrm{~J} \\ & 139 \mathrm{~J} \\ & 142 \mathrm{~J} \\ & 145 \mathrm{~J} \\ & 153 \mathrm{~J} \\ & 160 \mathrm{~J} \\ & 171 \mathrm{~J} \\ & 175 \mathrm{~J} \\ & 180 \mathrm{~J} \\ & 189 \mathrm{~J} \\ & 194 \mathrm{~J} \\ & 201 \mathrm{~J} \\ & 234 \mathrm{~J} \end{aligned}$ | 343.8 <br> 351.5 <br> 363.3 <br> 368.3 <br> 389.3 <br> 406.4 <br> 431.3 <br> 442.3 <br> 457.2 <br> 480.2 <br> 492.8 <br> 510.5 <br> 594.0 | 13.5 13.8 14.3 14.5 15.3 16.0 17.0 17.4 18.0 18.9 19.4 20.1 23.4 | $\begin{aligned} & \hline 236 \mathrm{~J} \\ & 250 \mathrm{~J} \\ & 260 \mathrm{~J} \\ & 264 \mathrm{~J} \\ & 280 \mathrm{~J} \\ & 300 \mathrm{~J} \\ & 312 \mathrm{~J} \\ & 318 \mathrm{~J} \\ & 323 \mathrm{~J} \end{aligned}$ | 599.4 <br> 630.8 <br> 660.4 <br> 670.0 <br> 711.2 <br> 762.0 <br> 792.5 <br> 807.7 <br> 819.3 | $\begin{aligned} & 23.6 \\ & 24.8 \\ & 26.0 \\ & 26.4 \\ & 28.0 \\ & 30.0 \\ & 31.2 \\ & 31.8 \\ & 32.3 \end{aligned}$ |

[^2]

## Construction

Polyurethane without tensile members

## Features + Benefits

- Low starting torque

Excellent flexibility, provides smooth slip-free starts even in low temperatures.

- Easy installation Easy to install by hand.
No retensioning needed.
- Minimal tension maintenance.
- High oil and ozone resistance

Size Mark

Standard Sizes

| Type 2 <br> 2 mm diameter |  | Type 3 <br> 3 mm diameter |  | Type 4 4 mm diameter |  | Type 5 <br> 5 mm diameter |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Belt length |  | Belt length |  | Belt length |  | Belt length |  |
| mm | inch | mm | inch | mm | inch | mm | inch |
| 100.0 | 3.94 | 115.0 | 4.53 | 140.0 | 5.51 | 200.0 | 7.87 |
| 107.0 | 4.21 | 120.0 | 4.72 | 160.0 | 6.30 | 210.0 | 8.27 |
| 112.0 | 4.41 | 132.0 | 5.20 | 170.0 | 6.69 | 220.0 | 8.66 |
| 120.0 | 4.72 | 138.0 | 5.43 | 175.0 | 6.89 | 225.0 | 8.86 |
| 125.0 | 4.92 | 140.0 | 5.51 | 200.0 | 7.87 | 230.0 | 9.06 |
| 130.0 | 5.12 | 150.0 | 5.91 | 213.0 | 8.39 | 247.0 | 9.72 |
| 134.0 | 5.28 | 153.0 | 6.02 | 225.0 | 8.86 | 248.0 | 9.76 |
| 136.0 | 5.35 | 155.0 | 6.10 | 230.0 | 9.06 | 250.0 | 9.84 |
| 140.0 | 5.51 | 160.0 | 6.30 | 235.0 | 9.25 | 275.0 | 10.83 |
| 145.0 | 5.71 | 165.0 | 6.50 | 250.0 | 9.84 | 290.0 | 11.42 |
| 147.0 | 5.79 | 170.0 | 6.69 | 254.0 | 10.00 | 300.0 | 11.81 |
| 152.0 | 5.98 | 172.0 | 6.77 | 258.0 | 10.16 | 305.0 | 12.01 |
| 160.0 | 6.30 | 180.0 | 7.09 | 264.0 | 10.39 | 310.0 | 12.20 |
| 170.0 | 6.69 | 182.0 | 7.17 | 275.0 | 10.83 | 330.0 | 12.99 |
| 180.0 | 7.09 | 190.0 | 7.48 | 284.0 | 11.18 | 345.0 | 13.58 |
| 183.0 | 7.20 | 200.0 | 7.87 | 285.0 | 11.22 | 348.0 | 13.70 |
| 190.0 | 7.48 | 204.0 | 8.03 | 290.0 | 11.42 | 363.0 | 14.29 |
| 200.0 | 7.87 | 213.0 | 8.39 | 300.0 | 11.81 | 375.0 | 14.76 |
| 213.0 | 8.39 | 223.0 | 8.78 | 305.0 | 12.01 | 380.0 | 14.96 |
| 227.0 | 8.94 | 230.0 | 9.06 | 316.0 | 12.44 | 384.5 | 15.18 |
| 239.0 | 9.41 | 236.0 | 9.29 | 323.0 | 12.72 | 402.0 | 15.83 |
| 244.0 | 9.61 | 240.0 | 9.45 | 332.0 | 13.07 | 422.0 | 16.61 |
| 250.0 | 9.84 | 250.0 | 9.84 | 335.0 | 13.19 | 440.0 | 17.32 |
| 273.0 | 10.75 | 260.0 | 10.24 | 346.0 | 13.62 | 460.0 | 18.11 |
| 290.0 | 11.42 | 275.0 | 10.83 | 361.0 | 14.21 | 685.0 | 26.97 |
| 444.0 | 17.48 | 282.0 | 11.10 | 367.0 | 14.45 |  |  |
| 470.0 | 18.50 | 285.0 | 11.22 | 370.0 | 14.57 |  |  |
|  |  | 290.0 | 11.42 | 374.0 | 14.72 |  |  |
|  |  | 305.0 | 12.01 | 377.0 | 14.84 |  |  |
|  |  | 308.0 | 12.13 | 385.0 | 15.16 |  |  |
|  |  | 330.0 | 12.99 | 390.0 | 15.35 |  |  |
|  |  | 347.0 | 13.66 | 415.0 | 16.34 |  |  |
|  |  | 356.0 | 14.02 | 474.0 | 18.66 |  |  |
|  |  | 363.0 | 14.29 | 500.0 | 19.69 |  |  |
|  |  | 376.0 | 14.80 | 540.0 | 21.26 |  |  |
|  |  | 390.0 | 15.35 |  |  |  |  |
|  |  | 400.0 | 15.75 |  |  |  |  |
|  |  | 430.0 | 16.93 |  |  |  |  |
|  |  | 441.0 | 17.36 |  |  |  |  |
|  |  | $\begin{aligned} & 450.0 \\ & 645.0 \end{aligned}$ | $\begin{array}{r} 17.72 \\ 25.39 \end{array}$ |  |  |  |  |

## BANDO bancord (OPEN END TYPE)

BANCORD V-BELTS


## Construction

Polyurethane without tensile members


Features
Simply cut and heat-splice the belt to the required length.

## Standard Sizes

ROUND Belts

| Diameter of Belt | mm | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | inch | 0.06 | 0.08 | 0.10 | 0.12 | 0.14 | 0.16 | 0.20 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 | 0.43 | 0.47 | 0.60 |
| \#480 Standard |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | O | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| \#489 high modulus |  |  | $\bigcirc$ |  |  |  | $\bigcirc$ |  | $\bigcirc$ |  | $\bigcirc$ |  | $\bigcirc$ |  | $\bigcirc$ |  |
| Length / roll |  | \#480 200m/roll \#489 100m/roll |  |  |  |  |  | $100 \mathrm{~m} / \mathrm{roll}$ |  |  |  |  |  |  |  |  |

V-Belts

| Type | Top width a | Thickness b | Angle $\theta$ |
| :---: | :---: | :---: | :---: |
| M | 10.0 mm | 5.5 mm | $40^{\circ}$ |
| A | 12.7 mm | 8.0 mm | $40^{\circ}$ |
| B | 16.7 mm | 10.3 mm | $40^{\circ}$ |

## BANDO BANGOLLAN (GORDLESS) FLAT BELTS



## Construction

Polyurethane without tensile members

## Features + Benefits

- Smooth constant speed

Thickness tolerance is $\pm 0.0020^{\prime \prime}(0.05 \mathrm{~mm})$, so there is virtually no speed variation.

- Space saving

Minimum pulley diameter is $0.2^{\prime \prime}$ ( 5.0 mm ). This allows high speed ratios.

## Dimensions



Size Mark


Standard Sizes

| $\mathbf{a} \times \mathbf{b}(\mathrm{mm})$ | BELT INSIDE LENGTH $(\mathrm{mm})$ |
| :---: | :--- |
| $10 \times 1.0$ | $170 \sim 950$ <br> (Please contact us for size details) |

The above belt should be installed at $6 \%$ stretch.

## FLAT BELTS (RUBBER / POLYURETHANE)

## BANDO psBELTS

BANDO PS Belts are made of seamless woven fabric. The fabric is coated with various kinds of rubber or polyurethane rubber. This belt is newly developed to meet the needs of precision drives such as those in office automation equipment, computer peripherals, and banking machines.

| Type *-1 | Characteristics / Application | Construction |  |  |  | Color tone | Available dimensions *-3 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number of tensile member(ply) | Material | Surface surface *-2 |  |  | Total thickness | Width | Inside perimeter length |
|  |  |  |  | Front surface | Rear surface |  |  |  |  |
| A-1C | Low-torque, high-speed power transmission Weather resistance, cold resistance | 1-ply polyester | Chloroprene rubber | Rough | Smooth | Black | 0.22 | 3~300 | 100~1900 |
| A-1U | Low-torque, high-speed power transmission Weather resistance, oil resistance, abrasion resistance | 1-ply polyester | Polyurethane | Rough | Smooth | White, green | 0.22 | 3~300 | 100~1900 |
| A-4U | Low-torque, high-speed power transmission Weather resistance, oil resistance, abrasion resistance | 1-ply polyester | Polyurethane | Rough | Smooth | White, green | 0.4 | 5~300 | 180~5700 |
| A-10N | Medium-torque, high-speed power transmission <br> Oil resistance, cold resistance | 1-ply polyester | Nitrile rubber | Rough | Smooth | Black | 1.0 | 5~300 | 300~5700 |
| A-13C | Medium-torque, high-speed power transmission <br> Weather resistance, cold resistance | 1-ply polyester | Chloroprene rubber | Rough | Smooth | Black | 1.1 | 5~300 | 300~5700 |
| A-P | Medium-torque, high-speed power transmission <br> (No unraveling from edges) | 4-ply polyamide | Impregnated chloroprene rubber | Canvas | Canvas | Black | 1.3 | $\begin{gathered} *-4 \\ 10 \sim 350 \end{gathered}$ | $\begin{gathered} \text { 200~1000 } \\ \text { 1000~2700 } \end{gathered}$ |
| A-W | Medium-torque, high-speed power transmission <br> Quiet operation (No unraveling from edges) | 1-ply vinylon | Canvas fabric | Canvas | Canvas | Canvas natural color | 2.0 | 20~200 | 800~5700 |
| B-2C | Conveyance of light objects such as sheets of paper, tickets, etc. <br> Weather resistance, cold resistance | 1-ply polyester | Chloroprene rubber | Rough | Smooth | Black | 0.8 | 5~300 | 250~5700 |
| B-2H | Conveyance of light objects such as sheets of paper, tickets, etc. <br> Weather resistance, anti-staining properties | 1-ply polyester | Hypalon rubber | Rough | Smooth | White | 0.8 | 5~300 | 250~5700 |
| B-2CE | Conveyance of light objects such as sheets of paper, tickets, etc. <br> Superconductivity (a level of $100 \Omega$ ) | 1-ply polyester | Chloroprene rubber | Canvas | Smooth | Black | 1.1 | 10~200 | 250~5700 |
| B-3C | Conveyance of light objects such as sheets of paper, tickets, etc. Low-torque, high-speed power transmission Weather resistance, cold resistance | 1-ply polyester | Chloroprene rubber | Rough | Smooth | Black | 0.6 | 10~300 | 250~5700 |
| B-6N | Conveyance of light objects such as sheets of paper, tickets, etc. Low-torque, high-speed power transmission Oil resistance, abrasion resistance | 1-ply polyester | Nitrile rubber | Rough | Smooth | Black | 1.0 | 10~300 | 250~5700 |
| C-8C | Precision power transmission and conveyance of light objects on equipment fixed between axis | 1-ply polyester | Chloroprene rubber | Rough | Smooth | Black | 0.7 | 3~300 | 160~5700 |
| C-16C | Precision power transmission and conveyance of light objects on equipment fixed between axis | 1-ply polyester | Chloroprene rubber | Rough | Smooth | Black | 0.7 | 3~300 | 160~5700 |
| Z-H250X | Low-torque power transmission, conveyance of light objects at high ambient temperatures (i.e., 250 Åé or less) | 1-ply aromatic amide | Silicon rubber | Mirror | Mirror | Liver | 0.9 | 10~300 | 460~2000 |
| E-8U | Conveyance of light objects such as banknotes, cards, tickets, etc. on equipment fixed between axis | 1-ply polyester | Polyurethane (Millable) | Polished | Polished | Black | $\begin{gathered} \hline 0.65 \\ 0.8 \\ 1.0 \\ \hline \end{gathered}$ | 8~200 | 50~1500 |
| EXL-101 | Conveyance of light objects such as banknotes, cards, tickets, etc. on equipment fixed between axis | 1-ply polyester | Polyurethane (Millable) | Mirror surface (Molded) | Polished | Black | $\begin{gathered} \hline 0.65 \\ 0.8 \\ 1.0 \\ \hline \end{gathered}$ | 8~200 | 50~1250 |

※-1 Besides types listed above, available types A-1N, A-4C, A-10C, A-13N, B-2N, B-2UF, B-3N, B-6C, C-8N, C-8U, C-16N, C-16U, and others.
※-2 Select proper working surface according to your use conditions. Normally, it is recommended to use the smooth surface as the pulley surface
Besides the surfaces listed above, rough/polished surface and mirror/mirror (polished on one side) are available. For further information, contact us or your representative.
※-3 Any belt dimensions other than standard ones are available on your request. For any dimensions other than available dimensions listed above, contact us.
$※-410 \mathrm{~mm}$ to ( 0.15 Belt's inside perimeter length) mm

## BANDO

PS BELTS

## Features

1. Compact design
2. Smooth running
3. Maintenance free
4. Energy saver

Drives are compact because the belt is thin, seamless, and flexible.
Seamless belts allow for smooth running with no vibration.
Belts do not stretch because of specially treated tension members.
Lightweight and flexible belts minimize power loss.

| (O):Optimum $\bigcirc$ :Suited $\times$ :N/A |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type *-1 | Tensile strength N10 mm width | Axial load at stabilized extension N10 mm wide |  | Min. pulley diameter | Weight (approx) g'10 mm wide X m long | Abrasion resistance | Oil resistance | Electrical conductivity | Flame retardance | Ozone resistance | Major application |
| A-1C | 150 | 0.5\% | 30 | 5 | 2.5 | $\bigcirc$ | $\bigcirc$ | © | © | © |  |
| A-1U | 150 | 0.5\% | 30 | 5 | 2.3 | ( ) | ( | $\times$ | 0 | © |  |
| A-4U | 400 | 0.5\% | 45 | 10 | 4 | © | © | $\times$ | $\bigcirc$ | © | - Terminal equipment $\cdot$ Communication equipment <br> - Card reader <br> - Magnetic disk • Acoustic equipment |
| A-10N | 1000 | 0.5\% | 110 | 15 | 11 | © | © | © | $\bigcirc$ | $\times$ | - Grinding machine $\cdot$ Textile machinery <br> - Routing machine $\cdot$ Washing machine <br> - Line printer • Automatic lathe |
| A-13C | 1350 | 0.5\% | 170 | 20 | 12 | $\bigcirc$ | $\bigcirc$ | © | © | © | - Vacuum cleaner • Grinding machine <br> - Rotary burner <br> - Textile machinery |
| A-P | 1400 | $1 \%$ $2 \%$ $3 \%$ | $\begin{aligned} & 130 \\ & 210 \\ & 280 \end{aligned}$ | 50 | 11 | $\bigcirc$ | $\bigcirc$ | © | $\bigcirc$ | © | - Printing machine <br> - Automatic control device |
| A-W | 1700 | $\begin{aligned} & 1 \% \\ & 2 \% \end{aligned}$ | $\begin{aligned} & 200 \\ & 490 \end{aligned}$ | 30 | 9 | $\times$ | © | $\times$ | $\times$ | © | - Thread plying machine <br> - Cigarette making machine |
| B-2C | 250 | $1 \%$ $2 \%$ $3 \%$ | $\begin{aligned} & 30 \\ & 50 \\ & 60 \end{aligned}$ | 10 | 9 | $\bigcirc$ | $\bigcirc$ | © | © | © | - Ticket-issuing machine • Bank terminal machine <br> - Automatic ticket gate • Automatic packaging machine <br> - Money change machine • Cash dispenser |
| B-2H | 250 | $1 \%$ $2 \%$ $3 \%$ | $\begin{aligned} & 30 \\ & 50 \\ & 60 \end{aligned}$ | 10 | 9 | $\bigcirc$ | $\bigcirc$ | $\times$ | © | © | - Banknote checker • Office equipment <br> - Automatic checker <br> - Fare box $\cdot$ Ticket vending machine $\cdot$ Printing machine |
| B-2CE | 200 | $1 \%$ $2 \%$ $3 \%$ | $\begin{array}{r} 60 \\ 80 \\ 110 \\ \hline \end{array}$ | 30 | 12 | $\bigcirc$ | $\bigcirc$ | © | © | © | - Sorter • Copying machine <br> - Paper conveyance system <br> - Cash dispenser |
| B-3C | 380 | $1 \%$ $2 \%$ $3 \%$ | $\begin{array}{r} 70 \\ 120 \\ 140 \end{array}$ | 10 | 7 | $\bigcirc$ | $\bigcirc$ | © | © | © | - Copying machine $\cdot$ Motoring amusement machine <br> - Automatic packaging machine <br> - Microfilm equipment |
| B-6N | 600 | $1 \%$ $2 \%$ $3 \%$ | $\begin{aligned} & 180 \\ & 280 \\ & 360 \end{aligned}$ | 25 | 11 | © | (0) | © | $\bigcirc$ | $\times$ | - Automatic checker <br> - Printing machine • Office equipment <br> - Optical reader |
| C-8C | 80 | $1 \%$ $2 \%$ $3 \%$ | 9 15 20 | 5 | 8 | $\bigcirc$ | $\bigcirc$ | © | © | © | - Floppy disk <br> - Office equipment |
| C-16C | 160 | $1 \%$ $2 \%$ $3 \%$ | $\begin{aligned} & 20 \\ & 30 \\ & 40 \end{aligned}$ | 7 | 8 | $\bigcirc$ | $\bigcirc$ | © | © | © | - Document feeder <br> - Copying machine $\cdot$ Sorter <br> - Fish detector |
| Z-H250X | 400 | 1\% | 120 | 30 | 11 | $\times$ | $\bigcirc$ | $\times$ | O | © | - Copying machine $\cdot$ Heat sealing machine <br> - Measuring meter $\cdot$ Testing machine <br> - Large-sized facsimile |
| E-8U | - | $\begin{aligned} & \hline 5 \% \\ & 6 \% \\ & 7 \% \\ & 8 \% \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 10 \\ & 12 \\ & 14 \\ & 16 \\ & \hline \end{aligned}$ | 8 | 10/total thickness 1.0 mm | © | $\bigcirc$ | © | O | © | - Bank terminal equipment <br> - Cash dispenser <br> - Card reader <br> - Office equipment |
| EX-101 | - | $\begin{aligned} & 5 \% \\ & 6 \% \\ & 7 \% \\ & 8 \% \\ & \hline \end{aligned}$ | 10 12 14 16 | 8 | 10 | © | $\bigcirc$ | © | $\bigcirc$ | © | - Bank terminal equipment <br> - Cash dispenser <br> - Card reader <br> - Office equipment |

Nomenclature of belt $\quad ※-1$ Besides types listed above. available types A-1N, A-4C, A-10C, A-13N, B-2N, B-2UF, B-3N, B-6C, C-8N, C-8U, C-16N, C-16U and others.
B-2 C E (1) Series name of belt $\cdots$ A: Mainly used for high-speed power transmission, B: Mainly used for conveyance of light objects such as sheets of paper, tickets, etc., C: Mainly used
$\frac{B}{1)}^{-}-\frac{2}{(2)} \frac{C}{(3)} \frac{E}{4}$ for precision power transmission, Z: Mainly used for conveyance at high temperatures, E: Used for conveyance of light objects
(2) Tensile strength of belt $\cdots$ Series A \& B: Indicating $1 / 100$ of tensile strength, Series C \& E: Indicating $1 / 10$ of tensile strength
(3) Material of cover $\cdots$ C: Chloroprene, N: Nitrile rubber, U: Polyurethane, H: Hypalon rubber
(4) Additional function $\cdots \mathrm{E}$ : Electrical conductivity of a level of $100 \Omega$, F: Certified by Food Sanitation Law and Official Notice No. 20 of Ministry of Health, Labour and Welfare.
※P,W: Special textile fabric


Features

|  | Sidewall wear resistance | Bending stress resistance | Noise level |
| :---: | :---: | :---: | :---: |
|  | Excellent | Good | Excellent |
| RAF |  |  |  |
|  | Excellent | Excellent | Good |
|  | Excellent | Excellent | Excellent |
|  | Excellent | Excellent | Good |
|  | Excellent | Excellent | Excellent |

Dimensions and available Size Range

|  | RAF |  |  | RPF |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | Top Width | Thickness | Angle | Top Width | Thickness | Angle |
| FM | 10.5 mm | 7.3 mm | $35 \pm 1^{\circ}$ | 11.0 mm | 8.0 mm | $35 \pm 1^{\circ}$ |
| A | 12.5 mm | 8.0 mm | $35 \pm 1^{\circ}$ | 13.2 mm | 8.5 mm | $35 \pm 1^{\circ}$ |
| B |  |  |  | 17.0 mm | 11.0 mm | $35 \pm 1^{\circ}$ |
| C |  |  |  | 23.0 mm | 13.0 mm | $35 \pm 1^{\circ}$ |
| CD |  |  |  | 25.4 mm | 13.0 mm | $35 \pm 1^{\circ}$ |
| BC |  |  |  | 19.0 mm | 11.0 mm | $35 \pm 1^{\circ}$ |


|  | Type | Rib pitch | Thickness | Size range |
| :---: | :---: | :---: | :---: | :---: |
| RIB-ACE | PK | 3.56 mm | 4.8 mm | $(500 \mathrm{~mm}-2540 \mathrm{~mm})$ |


|  | Type | Tooth pitch | Thickness | Size range |
| :---: | :---: | :---: | :---: | :---: |
| $\mathrm{OHC}$ <br> Synchronous Belts | ZA | 9.525 mm | 4.10 mm | Please contact us |
|  | ZB | 9.525 mm | 4.50 mm |  |
|  | ZBS | 9.525 mm | 4.89 mm |  |
|  | YH | 8.0 mm | 5.2 mm |  |
|  | ZH | 9.525 mm | 5.65 mm |  |
|  | YU | 8.0 mm | 5.02 mm |  |
|  | RU | 9.525 mm | 5.40 mm |  |


|  | Type | Tooth pitch | Thickness | Size range |
| :---: | :---: | :---: | :---: | :---: |
| OHC | S8M | 8.0 mm | 5.2 mm | Please contact us |

## BANDO POWER TRANSMISSION BELT

## OPERATING, TROUBLESHOOTING, and MAINTENANCE

## CONSTRUCTION

## V-BELT

The accompanying diagrams show the simple construction of a belt. Each belt has four components.
a) Cover: A canvas cover is usually wrapped completely around the belt, sometimes only on the top and bottom. It provides the proper amount of traction and protects the internal components from oil, dust and other foreign materials. It also increases belt flexibility.
b) Cushion Rubber: The material surrounding the Tensile Member. It absorbs the power from the drive pulley and helps transmit this power to the driven pulley. Its high elasticity allows smooth bending and flexing over even the smallest pulleys while preventing heat built-up. It is made of synthetic rubber.
c) Adhesion Rubber: Sets the tensile cords in the right place and firmly bonds the cords with the cushion rubber.
d) Tensile Member: Cord like material running through the belt. The 'muscles' of the belt, it transmits power from one pulley to the next.


## SYNCHRONOUS BELT

Also called a "Timing Belt". It consists of four components:
a) Rubber Backing: A synthetic rubber layer which gives protection to the tensile member. It is tough and flexible and completely bonded to the tensile member. Its excellent wear resistant backing can also be used for light duty transportation.
b) Tensile Member: Made of helically wound glass fiber cord, it is designed to transmit the power. The small diameter cord possesses high tensile strength, low stretch and high resistance to bending fatigue.
c) Rubber Teeth: Special synthetic rubber which has high shear strength and adequate hardness. To ensure that the teeth are compatible with the pulley grooves, they are precision made with a highly accurate pitch. (When the teeth in mesh [TIM] is 6 or more, the teeth shear strength virtually exceeds the belt's tensile strength).
d) Nylon Facing: A thin nylon cover cloth, which is tough and has excellent abrasion resistance, protects the belt teeth from wear caused by pulley contact. This gives long belt service life.

## USE A MATCHED SET

Use a matched set from the same manufacturer. Belts from different manufacturers can have different characteristics. Slight differences between belts causes strain and shortens belt service life.
When installing new belts, always replace all the belts. Old belts become worn and stretched from use; if old and new belts are mixed, the new belts will do more work and as a result will fail early.


## SAFETY

Make sure that all equipment is turned off, and disconnected from the power source even if you are only going to touch it for a moment.


The drive should be fully protected by a guard.
This not only ensures safe operation but also protects the drive from debris and keeps the belt running smoothly.


## PULLEYS

Pulleys should be checked and worn ones replaced. Any rust should be removed from the Pulley surface as it accelerates belt wear. Paint or wax should never be applied to the Pulley grooves.


## INSTALLATION

## PULLEY MOUNTING AND ALIGNMENT

Unless belts enter and leave pulley in a relatively straight line, wear is accelerated. In Diagram 1 the shafts of the two drives are not parallel. In Diagram 2 although the shafts are parallel the pulleys are incorrectly aligned.
Use a steel straight edge to ensure correct alignment.


BELTS MUST NOT BE PRISED OR ROLLED ONTO THE PULLEY
This damages the belt internally and greatly shortens belt service life.
Fingers can also be seriously injured if caught in the pulley. Always fit the belt on the driven pulley first.


## BELTS MUST BE CORRECTLY TENSIONED

The correct tension can be calculated from the slack and the load, or the Bando tension meter can be used. The optimum tension is the lowest tension at which the belts will not slip under full load.
Over or under-tensioning causes, respectively, damage to the shaft bearings and belt slippage.
After installation the drive should be run for 15 minutes to seat the belts before peak load is applied. If they slip, tighten them. Check frequently during the first day of operation.


## STORAGE

Poor storage causes belt deterioration. To prevent this the following conditions should be observed:
a) Belts should be stored in a cool dark place, away from heaters and direct sunlight. Heat will dry out the belts and cause them to become brittle and hard. Optimum conditions, temperature below $85^{\circ} \mathrm{F}\left(30^{\circ} \mathrm{C}\right)$, relative humidity below $70 \%$.
b) Belts may be stored either by coiling them on shelves, or hanging them on wide supports or multiple hooks. (Avoid laying them on the floor)
c) Ensure that belts do not come into contact with oil or chemicals.


## TROUBLESHOOTING

| TROUBLE AREA | CAUSE | REMEDY |
| :---: | :---: | :---: |
| BELTS STRETCH BEYOND TAKE UP |  |  |
| Belts stretch unequally | Misaligned drive. | Realign and re-tension the drive. |
|  | Belts damaged during installation. | Replace with a properly installed matched set. |
| Belts stretch about equally | Insufficient take up allowance. | Check take up allowance in manual. |
|  | Greatly over or under-loaded drive. | Redesign user manuals. |
| SHORT BELT LIFE |  |  |
| Relatively rapid failure no visible reason | Underdesigned drive. | Increase the number of belts, use a wider belt, a high-power transmission belt or redesign user manual. |
|  | Pulley diameter too small. | Redesign user manual. |
|  | Belt runs on to pulley flange, due to misalignment. | Redesign user manual. |
|  | Worn pulley grooves. | Replace pulleys. |
|  | Belt damaged through improper installation. | Replace with a properly installed matched set. |
|  | Foreign substance caught between belt and pulley. | Shield the drive. |
| Sidewalls soft, sticky, and swollen, low adhesion between cover plies | Oil or grease on belts or pulleys. | Remove source of oil or grease. Clean surfaces. |
| Sidewalls dry and hard, low adhesion | High temperatures. | Remove heat source, ventilate drive better. |
| Belt bottom cracked | Pulley diameter too small. | Redesign using larger pulleys. |
|  | Back side idler-pulley diameter too small. | Replace with an inside idler-pulley, or redesign. |
|  | High temperatures. | Remove heat source, improve ventilation or use a heat resistant belt. |
|  | Belt slipping because of insufficient tensioning. | Re-tension. |
|  | Improper storage. | Store belts properly. |
| Belt bottom cut | Belt ran off the pulley. | Check tension and alignment. |
|  | Foreign material fell into drive. | Install drive shield. |
|  | Improper installation. | Install new belts properly. |

## TROUBLESHOOTING

| TROUBLE AREA | CAUSE | REMEDY |
| :---: | :---: | :---: |
| Extreme cover wear, worn corners | Dust on belt. | Clean surfaces and re-tension. Install shield. |
|  | Insufficient belt tension. | Re-tension. |
|  | Too few belts. | Increase belt quantity. |
|  | Pulley grooves rusted. | Remove rust or replace pulley. |
|  | Sharp corners or burrs on pulleys. | Round corners and remove burrs with a file. |
|  | Pulleys misaligned. | Re-align. |
|  | Angle of pulley groove incorrectly finished or badly worn. | Replace pulley with a new one, with suitable groove angle. |
|  | Outside diameter of right and left side of the pulley differs. | Replace with an accurately machined pulley. |
| Spin burns on belt | Belt slips under starting or stalling load. | Tighten belt until slipping stops. |
|  | Belt too loose. | Adjust belt tension. |
|  | Pulley diameter too small. | Replace pulley or use suitable belt. |
|  | Belt load miscalculated. | Increase number of belts, or use high power transmission capacity belt. |
|  | Water or oil on the belt. | Install belt cover. Completely wipe the belt clean. |
| Belt irregularly deformed | Belts were stucked or bent when stored. | Store belts by hanging them or by coiling on shelves. |
| BELT TURNOVER |  |  |
|  | Excessive lateral belt whip. | Use high power transmission capacity belt. |
|  | Foreign material in grooves. | Install belt cover. |
|  | Misaligned pulleys. | Realign. |
|  | Worn pulley grooves (use gauge). | Replace. |
|  | Insufficient belt tension. | Adjust tension. |
|  | Belt deformed by fluctuating load. | Replace with scrum, flat, or poly-V-belt. |
|  | Belt dameged through improper installation. | Replace with a properly installed matched set. |
|  | If multi-strand driven, belt lengths differ. | Replace belts with a matched set. |
| BELT VIBRATION |  |  |
|  | Incorrectly placed flat idler pulley. | Carefully align idler on flat side as close as possible to drive shaft. |
|  | Distance between shafts is too long. | Install an idler. |
|  | Insufficient belt tension. | Re-tension. |
|  | Belt lengths uneven. | Replace with a new matched set. |

## TROUBLESHOOTING

| TROUBLE AREA | CAUSE | REMEDY |
| :---: | :---: | :---: |
| BELT MEANDERS / BELT NOISE |  |  |
|  | Pulleys are misaligned. | Realign. |
|  | Belt slips because of under tensioning. Start up or stopping time too abrupt. | Re-tension. <br> Lengthen start up and deceleration time. <br> Drive slower. |
|  | Too few belts. | Increase belt quantity. |
|  | Belt type unsuitable. | Replace with Wrapped V-belt. |
| IMPROPER DRIVEN SPEED |  |  |
|  | Design error (incorrect ratio between drives). | Use correct sizes. |
| EXCESSIVE SLIPPING |  |  |
|  | Spin burns on belt. | Re-tension drive until slipping stops. |
|  | Too few belts. | Increase belt quantity. |
|  | Contact angle too small. | Install back side idler pulley on slack side or use synchro belt. |
|  | Water or oil on the belt. | Install belt cover, and clean surfaces. |
| HOT BEARINGS |  |  |
| Drive overtensioned | Worn-grooves, belts bottoming out. | Replace, re-tension drive. |
|  | Improper tensioning. | Re-tension. |
| Pulleys too small | Design error. | Redesign manuals. |
| Poor bearing condition | Bearings underdesigned and/or badly maintained. | Observe recommended bearing design and maintenance. |
| Pulleys too far out | Installation error or obstruction. | Place sheaves as close to bearings as possible, remove any obstructions. |
| Drive undertensioned | Belt slipping, causing heat build up. | Re-tension drive. |
| SYNCHRONOUS BELT: |  |  |
| Teeth broken off | Belt skips pulley teeth because it is undertensioned. | Re-tension. |
|  | Pulley teeth poorly machined, or badly worn. | Replace pulley with correctly machined one. If Install cover if teeth surfaces are dusty. |
|  | Equipment stopping too quickly. | Increase deceleration time, or use a stronger belt. |
|  | Fewer than specified belt teeth are gripping the pulley teeth. | Install back side idler on stuck side of belt, or redesign. |

## TROUBLESHOOTING

| TROUBLE AREA | CAUSE | REMEDY |
| :---: | :---: | :---: |
| Belt becomes stiff and cracks appear on the belt surface | Ambient temperature is excessively high. (over $90^{\circ} \mathrm{C}$ ) | Decrease the temperature or use heatresistant belt. |
| Belt breaks without showing any signs of fatigue | Power transmission capacity of belt is insufficient. | Use a wider belt, a wider pulley, or go through the belt selection procedure again. |
|  | Belt is unnaturally bent. | Pay attention to the maintenance or handling of the belt. |
|  | Belt is installed by forcible wrenching. | Install the belt by loosening the pulley slide or the tension pulley. |
|  | Foreign substance is present. | Install a belt cover. |
|  | Belt runs on to the flange of pulleys due to the excessive misalignment of pulleys. | Align the pulleys. |
| One or both edges of belt are worn out or broken | Pulleys are misaligned. | Align the pulleys. |
|  | The outside diameter of right and left side pulleys differ. | Replace with an accurately machined pulley. |
| BANDED BELT: |  |  |
| Tie band separation or belt riding out of pulley groove | Worn pulleys (check with gauge) | Replace with new pulleys. |
|  | Misalignment of pulley. | Realign. |
|  | Insufficient tension. | Re-tention. |
|  | Foreign object forced belt out. | Remove any interference. |
|  | Riding outside and above sheave grooves. | Properly maintain drive, and install belt correctly. |
| All belts separated from tie band | Drive shield loose and interfering with belt. Worn idler pulley. | Adjust shielding. Replace pulley. |
| Top of tie band frayed | Obstruction on machine. | Realign drive and remove obstruction. |
| Tie band top blistered | Foreign material accumulating between belts. | Check shielding on drive. |
| Bottom of belt cracking | Belt slipping causing heat build up and gradual hardening of undercord. | Check tension. |

(Fill in the blanks and consult with Bando.)


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Bando Chemical Industries, Ltd. shall not be liable for any damages and/or injuries whatsoever caused by any usage of the belts in this brochure for purposes other than power transmission.

MEMO


[^0]:    ※Please contact us.

[^1]:    ※Cord mark
    G…Glass cord
    K $\cdots$ Aramid cord

[^2]:    Some sizes are not equal for actual pitch length (inch).

