# Conveyor Belt

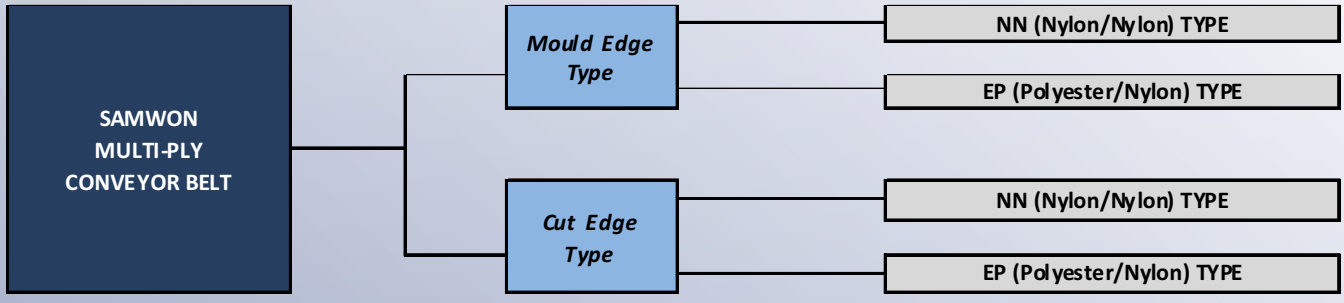
삼원 samwon®

**Application:**

Commonly found in application for conveying of materials in industries such as cement, chemical, paper mills, stone and quarry plants, mining such as coal, iron ore etc.

**Classification**

Two types of fabric or canvas available ie NN and EP which can be supplied in either cut edge or moulded edge.




**Standards**

On request by demand, belt can be manufactured to conform to DIN 22102, JISK 6322 or AS 1332.

## NN (Nylon/Nylon) Type

It has good elasticity, high strength and resilient to shock. Flexibility and troughability with minimum elongation.

Suitable for conveying materials at high speed and high load over middle and long distance.

## EP (Polyester/Nylon) Type

It has good heat stability and shock resistant. The modulus of belt is high and elongation during service is small.

Suitable for conveying materials at high speed and high load over middle and long distance.

**Grade of Cover Rubber**

| Grade | Equivalent | Min.Tensile Strength kg/cm² | Min. Elongation % | Max. Temp. ºC | Use |
|---|---|---|---|---|---|
| M | DIN-M BS-M24 RMA-1 AS-M | 250 | 500 | 60 ºC | Highest resistance to abrasion. Tearing caused by impact load |
| N | BS-N 17 RMA-2 JIS-S AS-N DIN-N | 180 | 400 | 60 ºC | Superior in abrasion resistance but inferior to Grade M |
| A | RMA-2 JIS-G | 180 | 450 | 60 ºC | Standard industry standard which is commonly used. |
| B | RMA-2 JIS-G | 140 | 400 | 60 ºC | Normal standard but lower to Grade A in resistance to cutting. |
| SAR | Super Abrasion Resistant | 140 | 400 | 60 ºC | Suitable for conveying material that is highly abrasive and wear on belt |
| OHR | Oil & Heat Resistant | 120 | 350 | Max Temp of Material Handled 100 ºC | Not suitable for conveying of hot materials. Oil and heat resistance. |
| OR | Oil Resistant | 120 | 350 | 60 ºC | Excellent in oil resistance for conveying of mineral, vegetable and animal fats. |
| HR | Heat Resistant | 140 | 400 | Belt Surface 180ºC. Material Handled 400ºC | Suitable for hot cement, clinker, powder etc Superior in heat resistant and abrasion |

## *NN (Nylon/Nylon) Type*

**NN Specification**

| Belt Type | Strength Per Ply N/mm | Number of Ply Available | Width Available mm | Max Length Per Roll (m) | Carcass weight (kg/m²) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 3 plies | 4 plies | 5 plies | 6 plies |
| NN 100 | 100 | 2 ~ 10 | 300 to 2800 | 200 | 3,0 | 4,1 | 5,2 | 6,4 |
| NN 125 | 125 | | | | 3,1 | 4,4 | 5,5 | 6,8 |
| NN 150 | 150 | | | | 3,3 | 4,5 | 5,8 | 7 |
| NN 200 | 200 | | | | 4,0 | 5,5 | 7 | 8,5 |
| NN 250 | 250 | | | | 4,5 | 6,1 | 7,8 | 9,4 |
| NN 300 | 300 | | | | 4,8 | 6,5 | 8,3 | 10 |
| NN 400 | 400 | | | | 6,0 | 8,1 | 10,3 | 12,4 |
| NN 500 | 500 | | | | 6,8 | 9,1 | 11,5 | 13,9 |

**Minimum Pulley Diameter**

| Belt Type | Number Of Ply | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Pulley Diameter (mm) | | | | | | | | |
| NN 100 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 |
| NN 125 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 |
| NN 150 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 |
| NN 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1400 |
| NN 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1250 | 1400 |
| NN300 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1400 | 1400 | 1600 |
| NN 400 | 500 | 630 | 800 | 1000 | 1250 | 1400 | 1600 | 1600 | 1800 |
| NN 500 | 630 | 800 | 1000 | 1250 | 1400 | 1600 | 1800 | | |
| NN 600 | 800 | 1000 | 1250 | 1400 | 1600 | 1800 | 2000 | | |

삼원samwon®

# Multi-ply Conveyor Belts

## Multi-ply Conveyor Belts

### EP (Polyester/Nylon) Type

**EP Specification**

| Belt Type | Strength Per Ply N/mm | Number of Ply Available | Width Available mm | Max Length Per Roll (m) | Carcass weight (kg/m²) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 3 plies | 4 plies | 5 plies | 6 plies |
| **EP 100** | 100 | 2 to 8 | 300 to 2800 | 200 | 2,90 | 4,00 | 5,10 | 6,30 |
| **EP 125** | 125 | | | | 3,40 | 4,60 | 5,90 | 7,10 |
| **EP 160** | 160 | | | | 4,00 | 5,50 | 7,00 | 8,50 |
| **EP 200** | 200 | | | | 4,50 | 6,10 | 7,80 | 9,40 |
| **EP 250** | 250 | | | | 4,90 | 6,60 | 8,40 | 10,10 |
| **EP 300** | 300 | | | | 5,40 | 7,40 | 9,30 | 11,30 |
| **EP 350** | 350 | | | | 5,60 | 7,60 | 9,60 | 11,60 |
| **EP 400** | 400 | | | | 6,60 | 9,00 | 11,30 | 13,60 |
| **EP 500** | 500 | | | | 7,00 | 9,50 | 11,90 | 14,40 |

**Minimum Pulley Diameter**

| Belt Type | Number Of Ply | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Pulley Diameter (mm) | | | | | | | | |
| **EP 100** | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 |
| **EP 125** | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 |
| **EP 160** | 250 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1000 | 1250 |
| **EP 200** | 315 | 500 | 630 | 800 | 1000 | 1250 | 1400 | 1250 | 1400 |
| **EP 250** | 400 | 630 | 800 | 1000 | 1250 | 1400 | 1600 | 1250 | 1400 |
| **EP 300** | 500 | 630 | 800 | 1000 | 1250 | 1400 | 1600 | 1400 | 1600 |
| **EP 400** | 630 | 800 | 1000 | 1250 | 1400 | 1600 | 1800 | 1600 | 1800 |
| **EP 500** | 800 | 1000 | 1250 | 1400 | 1600 | | | | |
| **EP 600** | 1000 | 1250 | 1400 | 1600 | 1800 | | | | |

삼원samwon®

# Multi-ply Conveyor Belts

## AR -- High Performance Type

**Application:**

Suitable for long distance, high speed, large capacity and high tension conveyor.

**Features & Characteristics:**

The AR is a single ply belt with aramid (kelvar) cord fabric that ensure high performance with the followings features & characteristics:

- *High Impact Resistance*
- *Low Elongation*
- *Corrosion Proof*
- *Prevent Flammable Material*
- *Non-Transforming*
- *Heat Resistance*
- *High Flexibility*
- *Fatigue Resistance*
- *Excellent Toughness*
- *Light Weight & Non Conducting*
- *Impact Penetration & Slit Resistance*
- *Good Adhesion Between Ply And Rubber Cover*

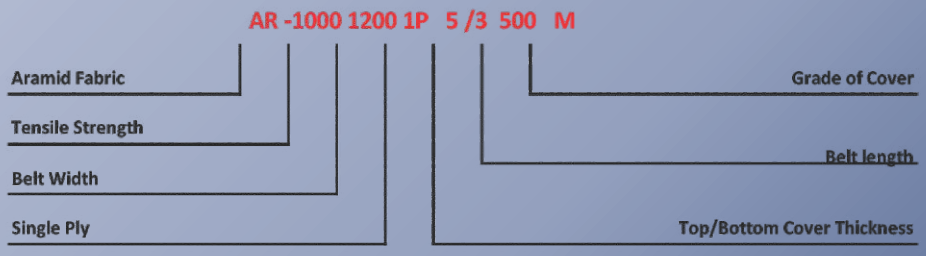
### Belt Technical Data

| Belt Type | | AR-630 | AR-800 | AR-1000 | AR-1250 | AR-1400 | AR-1600 | AR-1800 | AR-2000 | AR-2500 |
|---|---|---|---|---|---|---|---|---|---|---|
| Wrap Strength | (N/mm) | 800 | 970 | 1200 | 1600 | 1600 | 1900 | 2200 | 2400 | 3000 |
| Weft Strength | (N/mm) | 150 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
| Thickness | (mm) | 2,1 | 2,3 | 2,7 | 2,9 | 3,35 | 3,35 | 3,4 | 3,45 | 3,5 |
| Top Cover Thickness | (mm) | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 10 | 10 |
| Bottom Cover Thickness | (mm) | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 |
| Belt Thickness | (mm) | 11,1 | 11,3 | 13,7 | 15 | 15,35 | 15,35 | 15,4 | 18,45 | 18,5 |
| Elongation @ 10% Ref. Load | | 1 | 1 | 0,4 | 0,4 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |

### Recommended Minimum Pulley(mm)

| Belt Type | Tensile Strength (N/mm) | Minimum Pulley Diameter | | |
|---|---|---|---|---|
| | | Head Pulley | Tail Pulley | Snub Pulley |
| **AR - 630** | 630 | 500 | 400 | 300 |
| **AR - 800** | 800 | 600 | 450 | 350 |
| **AR - 1000** | 1000 | 600 | 450 | 350 |
| **AR - 1250** | 1250 | 650 | 500 | 400 |
| **AR - 1400** | 1400 | 700 | 500 | 450 |
| **AR - 1600** | 1600 | 750 | 550 | 500 |
| **AR - 1800** | 1800 | 750 | 550 | 500 |
| **AR - 2000** | 2000 | 800 | 600 | 500 |

**Ordering Code:**

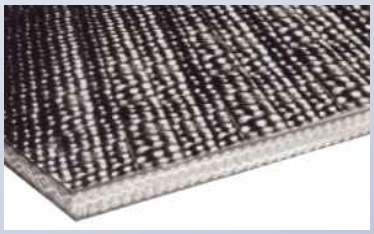


삼원samwon®



## Multi-ply Conveyor Belts

### Solid Woven Belt



**Application:**

Mainly used in underground coal mining.

**Features & Characteristic**

There are many strong points such as no ply separation, small elongation anti-impact and tear resistance. Good mechanical fasterning property. The PVC (plastic) cover solid woven conveyor belt is used in dry operation application with incline angle up to 16º. The PVG (rubber) is suitable for wet operation where the incline angle is up to 20º

**Standard:**

- *Conform to BS 3288*
- *Burner test - Flame resistant belt is self extinguish within the standard time after the withdrawal of burner.*

**Type of Textile Reinforced Conveyor Belt (Solid Woven Type)**

| Type | Full Thickness Belt Tensile Strength N/mm | | Full Belt Elongation At Break % (not less than) | | Belt Width | Length Per | Reference Mass kg/m2 | |
|---|---|---|---|---|---|---|---|---|
| | warp | weft | warp | weft | mm | Roll m. | PVC | PVG |
| SW 580 | 580 | 245 | | | | | | |
| SW 680 | 680 | 265 | | | | | 11,2 | 16,8 |
| SW 800 | 800 | 280 | | | | | 12 | 17,1 |
| SW 1000 | 1000 | 300 | | | | | 14 | 17,6 |
| SW 1250 | 1250 | 350 | | | | | 15,5 | 19,6 |
| SW 1400 | 1400 | 350 | 15 | 18 | 650 ~ 1400 | 200 | 16,5 | 20,8 |
| SW 1600 | 1600 | | | | | | | |
| SW 1800 | 1800 | | | | | | | |
| SW 2000 | 2000 | | | | | | | |
| SW 2240 | 2240 | | | | | | | |
| SW 2500 | 2500 | | | | | | | |

**Minimum Pulley Diameter**

| Type | 580S | 680S | 800S | 1000S | 1250S | 1400S | 1600S | 1800S | 2000S | 2240S | 2500S |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min. Pulley Dia. Mm | 500 | 630 | 630 | 630 | 800 | 800 | 1000 | 1000 | 1250 | 1250 | 1400 |

**Belt Identification Code**

**Rubber Cover (PVG) Resistant Woven**

| MA | S | 1000 | 2 +2 | SW | 9908 | 628 |
|---|---|---|---|---|---|---|
| Safety Symbol | Code for Flame Retardant & Anti-Static | Belt Strength | Top. Bottom Cover Thickness | Trade Mark | Production Date | Quality Certification Code |

**Plastic Cover (PVC) Resistant Woven**

| MA | S | 1000 | SW | 9908 | 628 |
|---|---|---|---|---|---|
| Safety Symbol | Code for Flame Retardant & Anti-Static | Belt Strength | Trade Mark | Production Date | Quality Certification Code |

# Multi-ply Conveyor Belts

## HT - High Temperature Belt

**Application:**

The burning-through resistant conveyor belt are widely used in metallurgical, chemical, casting and cement industries for conveying of materials whose temperature of material can reach 150º and 250º

**Feature:**

The belt is reinforced with a special glass fabric (GF Fabric) ply on the top cover to act as a "breaker". It is heat resistant and is stable in conveying materials of high temperature thereby ensuring a long service belt life. In addition, it employed DS/EP fabric instead of standard normal EP fabric. The DS/EP fabric is much stronger in strength than the no0rmal fabric.

**GF** : ***glass fibre reinforcement in the top cover before the 1st ply as a "breaker"***

**DS/EP** : ***Double Six EP fabric which has higher strength in weft side then the normal EP (single) fabric.***

| Type of Fabric | | Reinforcement D.S. EP | Cover Thickness (mm) | | No. of Ply Available | | Width Range (mm) |
|---|---|---|---|---|---|---|---|
| GF | E P | Strength Per Ply N/mm | Top | Bottom | G F | DE/EP | |
| **GF** | **DS/EP 100** | 100 | | | | | |
| **GF** | **DS/EP 150** | 150 | | | | | |
| **GF** | **DS/EP 200** | 200 | | | | | |
| **GF** | **DS/EP 250** | 250 | **? 7** | **? 3** | 1 | 2 - 6 | 450~2800 |
| **GF** | **DS/EP 300** | 300 | | | | | |
| **GF** | **DS/EP 350** | 350 | | | | | |
| **GF** | **DS/EP 400** | 400 | | | | | |

삼원samwon®

# Multi-ply Conveyor Belts

## Profile & Side Wall

**Application:**

Inclined conveyor can be widely used in coal mining's, power and metallurgical industries, chemical industry, light industries, grain and material transporting conveyors.

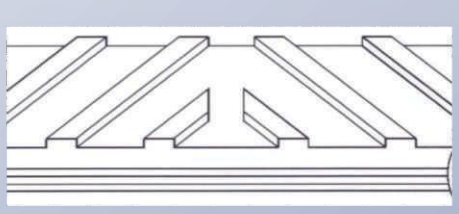
### Chevron & Column Profile

**Feature:**

The belt can operate at inclined angle of Oº to 45º.

It is useful for prevention of material from sliding downward.

| Type of Pattern | Pattern Parameter mm | Belt Width mm | Ply Material | Per roll/m |
|---|---|---|---|---|
| **Chevron** | 5, 10 (height) | 500-1200 | Fabric | 100 |
| **Column** | 25 (height) | 500-1200 | Fabric | 100 |

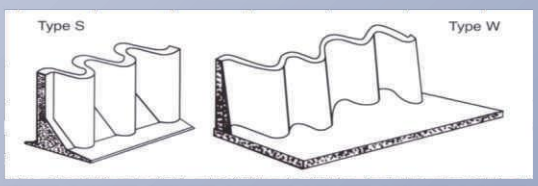


### Corrugated Side Wall

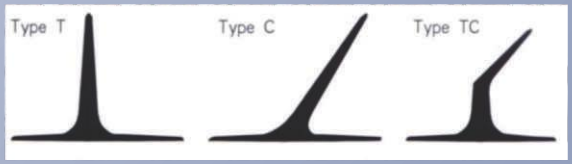
**Feature:**

The belt can conveyor at an angle of Oº to 90º.

It occupies small land area.




### Cleats

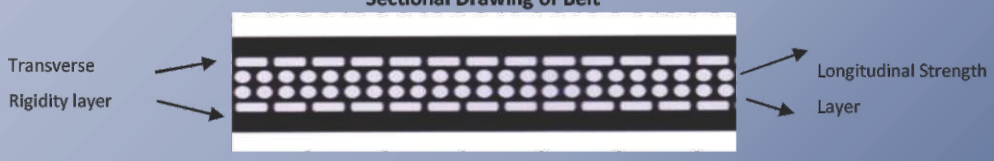



**Belt Design**

| Sidewall Height mm | 60 | 80 | 120 | 160 | 200 | 240 | 300 | 400 |
|---|---|---|---|---|---|---|---|---|
| Sidewall Mass kg/m | 1,1 | 1,3 | 2,9 | 4,6 | 5 | 7 | 12 | 15 |
| Cleat Height mm | 40 | 75 | 110 | 140 | 180 | 220 | 280 | 360 |
| Cleat Mass kg/m | 1,2 | 1,4 | 2,8 | 3,5 | 5,4 | 7,5 | 12 | 15 |
| Width of base belt mm | 500 -- 1600 | | | | | | | |

*The selection of base belt can be refer to the multiple ply, steel cord conveyor belt*

**Sectional Drawing of Belt**




**Recommended Pulley Dia.**

| Sidewall Height mm | 60 | 80 | 120 | 160 | 200 | 240 | 300 | 400 |
|---|---|---|---|---|---|---|---|---|
| Min. Pulley Dia. Mm | 300 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1250 |

Multi-ply Conveyor Belts

## Multi-ply Conveyor Belts

### Bucket Elevator Belt

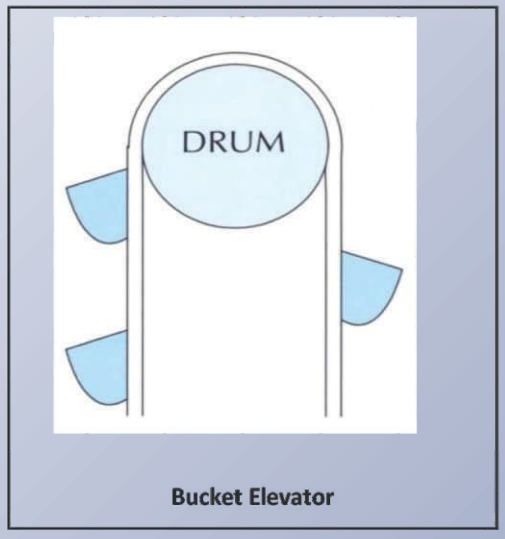
**Application:**

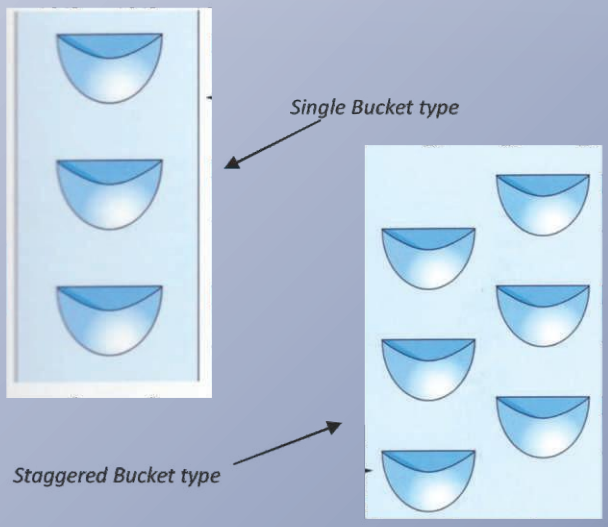
For transfer of materials in a vertical position and it is widely used in construction industries. They are also commonly found in light and food industries for carrying of material in a vertical position.

**Feature:**

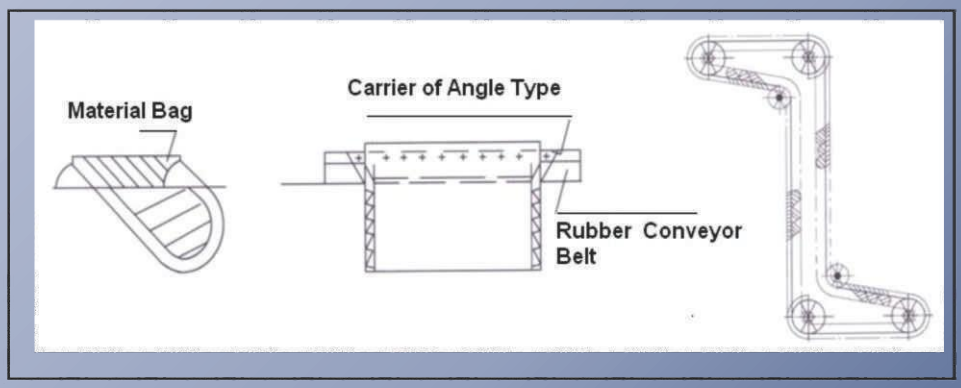
As holes are punched onto the belt to bolt the bucket, this weaken the belt considerably and belts is liable to break easily under load from filling of the buckets. In addition, unlike normal application, the bucket elevator belts are subjected to various forces including lever action during the projection of the buckets and extracting force when belt articulates the pulleys. Hence in view of these difficult operation requirements, the carcass of the elevator belts are reinforced with various material to prevent it from breakage.

### Bucket Type




### Bag Type



## Multi-ply Conveyor Belts

### Applicational Pictures

# Steel Cord Conveyor Belts

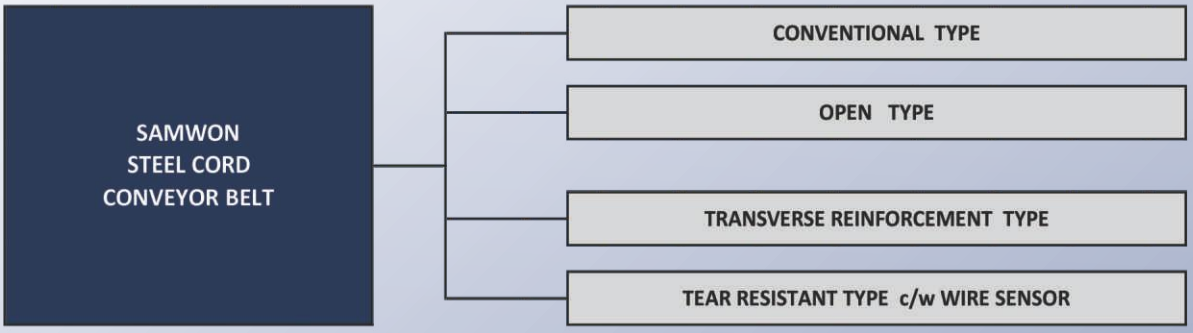
## Steel Cord Conveyor Belts

**Application:**

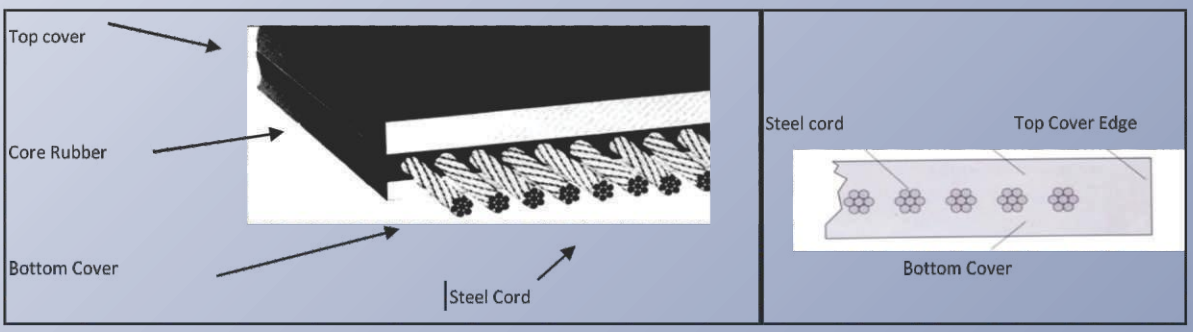
Widely used in chemical ,power plants, coal and other mineral minings and in ports for conveying of materials.

**Classification**

There are four (4) types of belt construction to meet the demands of most applications.

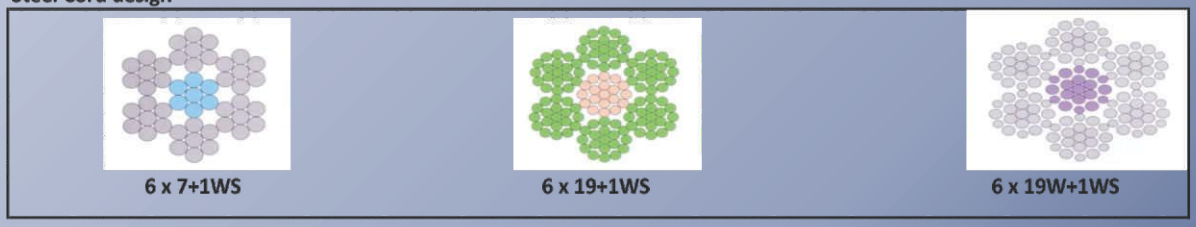



### BASIC STEEL CORD BELT




### CONVENTIONAL TYPE

**Steel Cord design**




**Structure & Feature**

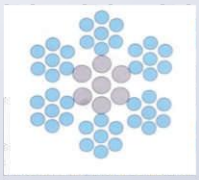
Galvanised steel cord is comprised of left and right twisted wire and arrange evenly pitch and longitudinally in the belt. With core rubber providing superior adhesive property, it ensure better has better service life, small elongation, excellent troughabaility and greater tensile strength. This allows the belt to carry heavy loads at higher speed over a long distance

삼원samwon®

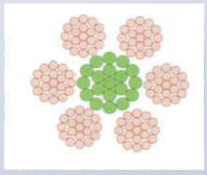
# Steel Cord Conveyor Belts

## OPEN TYPE

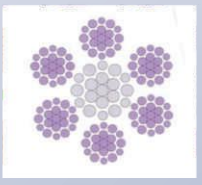
**Steel Cord design**



6 x 7+1WS



6 x 19+1WS



6 x 19W+1WS

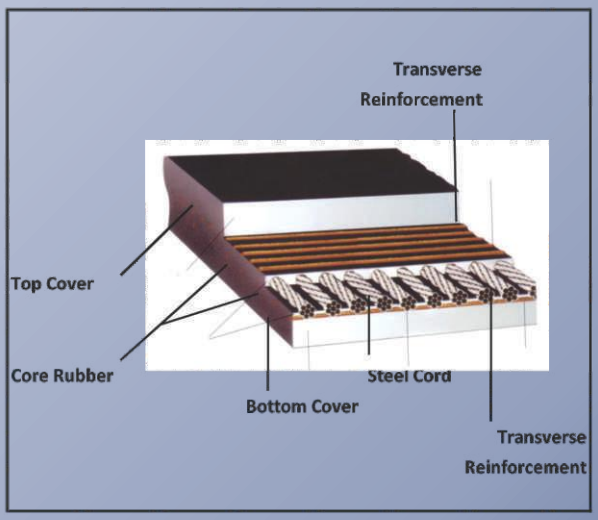
**Structure & Feature**

Unlike in conventional steel cord belt , the Open Type is different as each strand of steel cord has enough room for the core rubber to penetrate and bond with the steel cord. This bonding greatly strengthen the bonding area between the rubber and steel cord. As such, it improved the anti-corrosive resistance to the steel cord, it too increase the mutual sharing forece and the twisting strength of strand wire can be flexible too. Dynamic fatigue resistance is extremely good thereby providing better servie life to the belt.

## TRANSVERSE REINFORCEMENT TYPE

**Structure & Feature**

Reinforcement is placed transverse one side both sides of the longitudinal steel cord. This provide good impact and tear resistance.




## TEAR RESISTANT TYPE with WIRE SENSOR

**Structure & Feature**

There is a shift phase sensor (wire) embedded between the core rubber and the bottom cover of the steel cord conveyor belt. This sensor is placed at a fixed distance along the longitudinal direction of the conveyor belt.

a: The sensor is programmed to a computer and when tear in the belt is detected, it will set of an alarm signal and this will stop the conveyor belt automatically

b: The conveyor can be set to stop at preset speed. If speed fluctuated or operate under the preset speed, an alarm signal will set off and it will then automatically stop the conveyor.

c: It has memory function that show the conditions and data of the conveyor belt in operation.

## SPECIFICATIONS

**Technical Data for Standard Steel Cord Conveyor Belt** * (see notes 1)

| Technical Data \ Belt Type | SST 630 | SST 800 | SST 1000 | SST 1250 | SST 1600 | SST 2000 | SST 2500 | SST 3150 | SST 3500 | SST 4000 | SST 4500 | SST 5000 | SST 5400 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Longitudinal Tensile Strength N/mm | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 3500 | 4000 | 4500 | 5000 | 5400 |
| Max.Dia. of Cord | 3 | 3,5 | 4 | 4,5 | 5 | 6 | 7,2 | 8,1 | 8,6 | 8,9 | 9,7 | 10,9 | 11,3 |
| Pitch of Cord mm+ 1.5 | 10 | 10 | 12 | 12 | 12 | 12 | 15 | 15 | 15 | 16 | 16 | 17 | 17 |
| Top Cover Thickness | 5 | 5 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8,5 | 9 |
| Bottom Cover Thickness | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8,5 | 9 |
| Belt Mass kg/m2 (see notes 2) | 18 | 19,5 | 21,5 | 22,2 | 26,1 | 33,1 | 35,3 | 41,1 | 45 | 45 | 51 | 59 | 62 |
| | | | | | | | | | | | | | |
| BELT WIDTH (mm) | ENDS OF STEEL CORD | | | | | | | | | | | | |
| 800 | 75 | 75 | 63 | 63 | 63 | 63 | 50 | 50 | 50 | | | | |
| 1000 | 95 | 95 | 79 | 79 | 79 | 79 | 64 | 64 | 64 | 64 | 59 | 55 | 55 |
| 1200 | 113 | 113 | 94 | 94 | 94 | 94 | 76 | 76 | 77 | 77 | 71 | 66 | 66 |
| 1400 | 133 | 133 | 111 | 111 | 111 | 111 | 89 | 89 | 90 | 90 | 84 | 78 | 78 |
| 1600 | 151 | 151 | 126 | 126 | 126 | 126 | 101 | 101 | 104 | 104 | 96 | 90 | 90 |
| 1800 | | 171 | 143 | 143 | 143 | 143 | 114 | 114 | 117 | 117 | 109 | 102 | 102 |
| 2000 | | | 159 | 159 | 159 | 159 | 128 | 128 | 130 | 130 | 121 | 113 | 113 |
| 2200 | | | | | | 176 | 141 | 141 | 144 | 144 | 134 | 125 | 125 |
| 2400 | | | | | | 193 | 155 | 155 | 157 | 157 | 146 | 137 | 137 |
| 2600 | | | | | | 209 | 168 | 168 | 170 | 170 | 159 | 149 | 149 |
| 2800 | | | | | | | | | 194 | 194 | 171 | 161 | 161 |

**Notes:**

1) Belts can be made to DIN 22121, JISK 6389 (Japanese) and AS 1333 (Australian) Standard.
2) The belt mass will changed accordingly to the cover thickness and density of the belt.
3) Standard Belt length per roll is 200m, please check with us if belt length required is above 200m/roll

**Minimum Pulley Dia.**

| Type of Belts | ST 630 | ST 800 | ST 1000 | ST 1250 | ST 1600 | ST 2000 | ST 2500 | ST 3150 | ST 3500 | ST 4000 | ST 4500 | ST 5000 | ST 5400 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Pulley Dia. | 500 | 500 | 630 | 800 | 1000 | 1000 | 1250 | 1400 | 1600 | 1600 | 1600 | 1800 | 1800 |

삼원samwon®

## Steel Cord Conveyor Belts

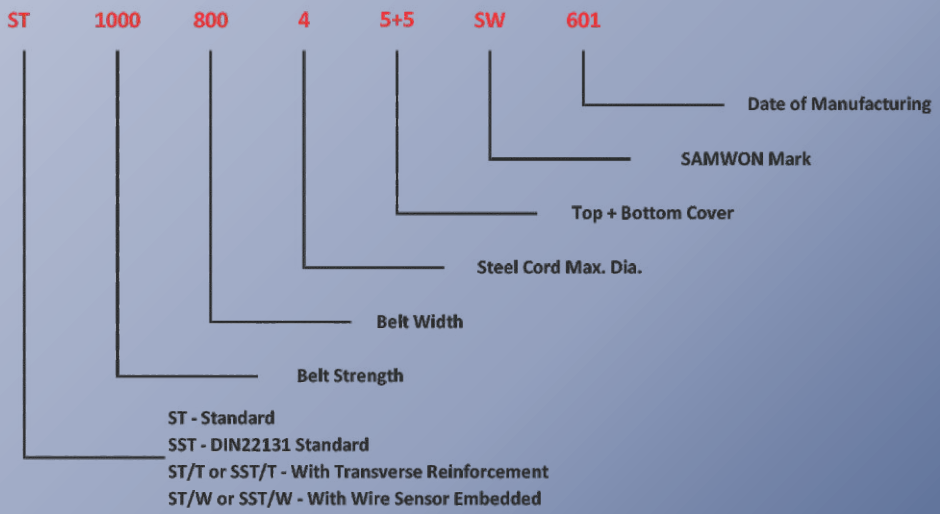
### SPECIFICATIONS

**Technical Data for DIN22131**

| Technical Data \ Belt Size | ST 1000 | ST 1250 | ST 1600 | ST 2000 | ST 2500 | ST 3150 | ST 3500 | ST 4000 | ST 4500 | ST 5000 | ST 5400 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Min. Tensile Strength N/mm | 1000 | 1250 | 1600 | 2000 | 3150 | 3500 | 4000 | 4500 | 4500 | 5000 | 5400 |
| Dia. Of Cord (Max.) mm | 4,1 | 4,9 | 5,6 | 5,6 | 7,2 | 8,1 | 8,6 | 8,9 | 9,7 | 10,9 | 11,3 |
| Pitch Of Cord, mm +/- 1.5 | 12 | 14 | 15 | 12 | 15 | 15 | 15 | 15 | 16 | 17 | 17 |
| Cover Thickness (Min) mm | 4 | 4 | 4 | 4 | 5 | 5,5 | 6,5 | 7 | 7,5 | 8 | |

| Belt Width | | Ends of Steel Cord | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| mm | Tolerance | | | | | | | | | | | |
| 500 | +/- 5 | 39 | 34 | - | - | - | - | - | - | - | - | - |
| 650 | +/- 7 | 51 | 44 | - | - | - | - | - | - | - | - | - |
| 800 | +/- 8 | 64 | 55 | 50 | 64 | - | - | - | - | - | - | - |
| 1000 | +/- 10 | 81 | 69 | 64 | 81 | 64 | 64 | 64 | 64 | 59 | 55 | 55 |
| 1200 | +/- 10 | 97 | 84 | 77 | 97 | 77 | 77 | 77 | 77 | 71 | 66 | 66 |
| 1400 | +/- 12 | 114 | 98 | 90 | 114 | 90 | 90 | 90 | 90 | 84 | 78 | 78 |
| 1600 | +/- 12 | 131 | 112 | 104 | 131 | 104 | 104 | 104 | 104 | 96 | 90 | 90 |
| 1800 | +/- 14 | 147 | 127 | 117 | 147 | 117 | 117 | 117 | 117 | 109 | 102 | 102 |
| 2000 | +/- 14 | 164 | 141 | 130 | 164 | 130 | 130 | 130 | 130 | 121 | 113 | 113 |
| 2200 | +/- 15 | 1181 | 155 | 144 | 18 | 144 | 144 | 144 | 144 | 134 | 125 | 125 |
| 2400 | +/- 15 | 197 | 169 | 157 | 197 | 157 | 157 | 157 | 157 | 146 | 137 | 137 |
| 2600 | +/- 15 | 214 | 184 | 170 | 214 | 170 | 170 | 170 | 170 | 159 | 149 | 149 |
| 2800 | +/- 15 | 231 | 198 | 170 | 214 | 170 | 170 | 170 | 170 | 159 | 149 | 149 |
| 3000 | +/- 15 | 247 | 212 | 197 | 247 | 197 | 197 | 197 | 197 | 184 | 172 | 172 |
| 3200 | +/- 15 | 264 | | 210 | 264 | 210 | 210 | 210 | 210 | 196 | 184 | 184 |

**Belt Identification**



## Conveyor Belts

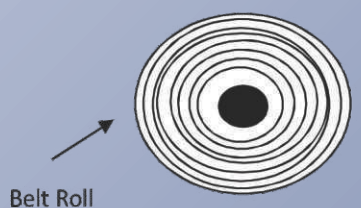
**Data Required**

| | | | | | | |
|---|---|---|---|---|---|---|
| NAME OF COMPANY | | | | | | |
| ***Conveyor*** | | | | | | |
| Station name | | | | | | |
| Centers of conveyor | Horizontal | m (feet) | Inclined | m (feet) | | |
| Lift | | | | | m (feet) | |
| Angle of Inclination | Max. | Deg. | Average | Deg. | Min. | Deg. |
| ***Belt*** | | | | | | |
| Belt Width | | | | | mm (in) | |
| Belt Speed | | | | | m/min (feet/min) | |
| Surface Temperature | Max. | ºC / ºF | Min. | ºC / ºF | | |
| ***Material*** | | | | | | |
| Type of Material / Size | | | mm Ø (in Ø) | | | |
| Ratio of max.lump size contained | | | % | | | |
| Specific gravity | | | T/m3 (lbs/in3) | | | |
| Temperature | Max. | ºC / ºF | Min. | | ºC / ºF | |
| Capacity | Max. | t/h | Min. | t/h | | |
| ***Drive*** | | | | | | |
| Type | Single Drive / Single Drive (Tandem Type) / Tandem Drive | | | | | |
| Surface of pulley | With rubber lagging / without rubber lagging | | | | | |
| Angle of wrap | | | Deg. | | | |
| Friction factor | | | | | | |
| ***Carrier Roller*** | | | | | | |
| Angle of trough | | | | | | |
| Spacing of carriers | | | | | | |
| Spacing of return idlers | | | | | | |
| Weight of moving parts (other than material transported) | Carrier Roller | kg/m (lb./in) | Return Roller | kg/m (lb./in) | | |
| ***Take - up*** | | | | | | |
| Type | Screw take-up / Gravity take-up / Carriage take-up | | | | | |
| Effective length of take up | | | | | | |
| Weight of take-up | | | | | | |
| Position of take-up | Head | | Tail | | | |
| ***Diameter of Pulley*** | | | | | | |
| Drive Pulley | | | mm Ø (in Ø) | | | |
| Head Pulley | | | mm Ø (in Ø) | | | |
| Tail Pulley | | | mm Ø (in Ø) | | | |
| Take-up Pulley | | | mm Ø (in Ø) | | | |
| Snub Pulley | | | mm Ø (in Ø) | | | |
| ***Drive Unit*** | | | | | | |
| Motor rating/speed | | kW (hp) | rpm | | | |
| Type Gear or drive unit /output speed | | | rpm | | | |

**Calculation of belt roll diameter**

$$D = \sqrt{\frac{Gd \cdot Gl}{0{,}785} + Ka^2}$$

D = Belt roll diameter in cm
Gd= Belt thickness (cm)
Gl= Belt length (cm)
Ka= Core diameter (cm) ( core diameter generally in 25cm, 32cm, 50cm)

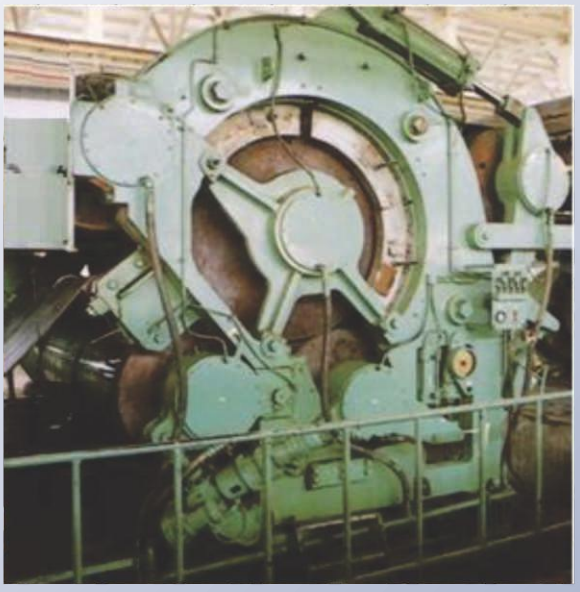


Belt Roll

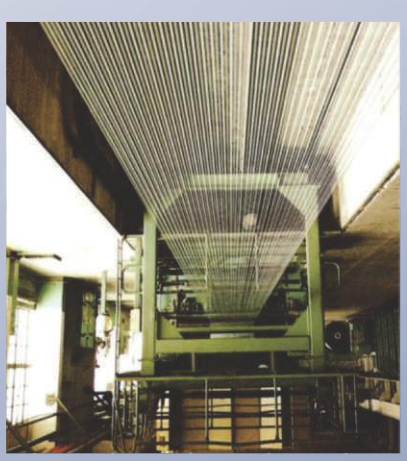
## Conveyor Belts

### Equipments

Rotary Cure Machine



Constant Tension Press



Rheometer

Calender 4 rolls

Electronic Tension Meter

# 삼원 samwon®
# Conveyor Belt

## Please Contact Us


**PT. Meganusa Transmission**

Kompleks Ruko Inkopal Blok G No. 52
Jl. Boulevard Barat Raya
Kelapa Gading - Jakarta Utara 14250
Telp. 021-45855955, 45855966
Fax. 021-4507592
e-mail : sales@nusadrive.com

**Megadrive Transmission Pte. Ltd.**

32 Kallang Pudding Road
#04-05, Elite Industrial Building I
Singapore 349313
Telp : 6-743 4883, 6-743 5928
Fax : 6-743 4345
website : www.megadrive.com.sg