



# TAMBURSAN



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# TAMBURSAN



## TAMBURSAN MANUFACTURING AND COATING INDUSTRY

As Tambursan, which started its operations in 2010, our customers are our longterm partners. Therefore, customer satisfaction is our first priority. Our goal is to win the loyalty of our customers. After many years of commercial relations, most of our customers have become very close friends. That makes us think that we have achieved in our goals so far. Our achievements come from high quality production, advanced technology, innovative ideas and teamwork. We are pleased to offer you the best service.



## Services

- *Manufacturing of Conveyor Drums*
- *Coating of Conveyor Drums*
- *Manufacturing of Roller*
- *Design and Manufacturing of Conveyor Belt*
- *Manufacturing of Belt ( Rubber –PVC – Polyurethane)*

## Fields of Activity

- *Mining Industry*
- *Agriculture Industry*
- *Automotive Industry*
- *Construction Equipments and Machines*
- *Defence and Aviation Industries*
- *Food and Animal Husbandry Industries*
- *Special Manufacturing Machines*



# Drums



## What is a drum pulley?

Drum pulleys have been in use for centuries and continue to be utilized in many, many applications in our modern world. In heavy industry, their applications are on a much larger scale. Engineers design pulley systems with a great deal of consideration for the environment. For example, an industry with frequent dust and debris may require a self-cleaning pulley or special bearings and seals to protect it from the elements. Environments with wet and dry conditions will require specific pulley liners, and applications with extremely corrosive products will require stronger materials to support the operation.

In belt conveyor applications, the role of the pulley is threefold.

- 1) supporting the belt during changes in direction by the conveyor design.
- 2) transmitting drive forces to the belt, and
- 3) guiding or training the belt.

The drive pulley transmits the driving force to the belt and can be located at the head or discharge end of the conveyor, in the return chain, or at the tailor loading end of the conveyor.

The cushion pulley is located near the drive pulley to provide more contact arcs between the belt and pulley for maximum traction when driving the belt.

The head pulley is located at the discharge end of the conveyor and in simple conveyors is usually the drive pulley.

The tail pulley is located at the loading end of the conveyor and in simple conveyors is usually the winding pulley.

## Advantages

Drum rollers can create a driving effect on the conveyor belt and change the direction of movement of the belt through their shape and characteristics.

Pulleys are simple machines that can change the direction of forces, making it easier for us to move objects.





# Drums

## DRUM TYPES

### Head pulleys

The head pulley is located at the discharge point of the conveyor. It usually drives the conveyor and often has a larger diameter than other pulleys. For better traction, the head pulley is usually lagged (with either rubber or ceramic lagging material).

### Tail and wing pulleys

The tail pulley is located at the loading end of the belt. It comes with either a flat face or a slatted profile (wing pulley), which cleans the belt by allowing material to fall between the support members.

### Snub pulleys

A snub pulley improves the traction of the drive pulley, by increasing its belt wrap angle.

### Drive pulleys

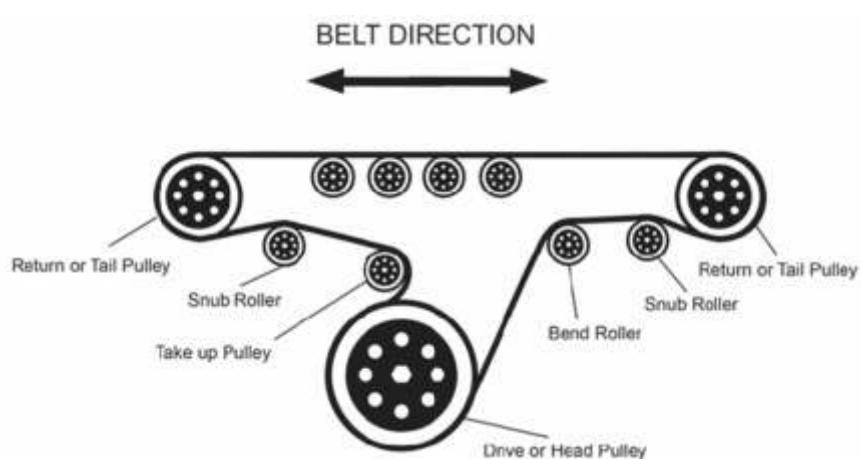
Drive pulleys, which can also be the head pulley, are driven by a motor and power transmission unit to propel the belt and material to the discharge.

### Bend pulleys

A bend pulley is used for changing the direction of the belt.

### Take-up pulley

A take-up pulley is used to provide the belt with the proper amount of tension. Its position is adjustable.



# Drums



## DRUM COATING TYPES

- \* HOT COATING
- \* COLD COATING
- \* CERAMIC COATING



## DRUM PATTERN TYPES

- \* Chevron Groove Lagging
- \* Diamond Groove Lagging

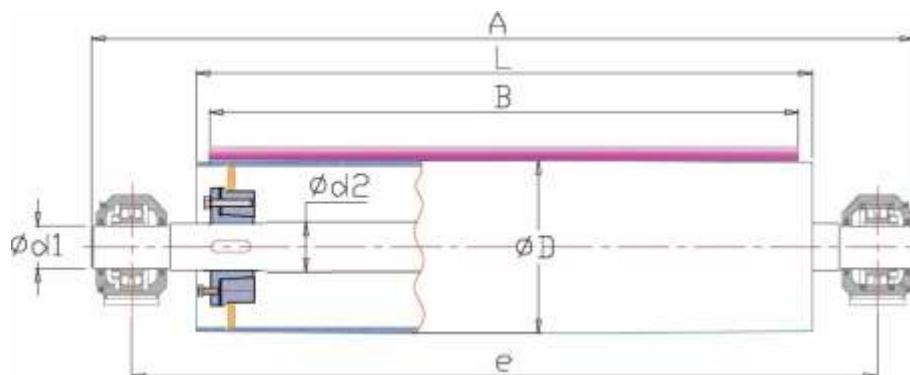




## Drums

### DRUM DIMENSIONS

Belt width	Length	Pulley Diameter	Thickness
300mm	400mm	200 ,250 ,315 ,400 mm	6-12mm
400mm	500mm	200 ,250 ,315 ,400 ,500 mm	6-12mm
500mm	600mm	200 ,250 ,315 ,400 ,500 ,630 mm	7-14mm
650mm	750mm	200 ,250 ,315 ,400 ,500 ,630 ,800 ,1000 ,1250 ,1400 mm	8-18mm
800mm	950mm	200 ,250 ,315 ,400 ,500 ,630 ,800 ,1000 ,1250 ,1400 mm	8-18mm
1000mm	1150mm	200 ,250 ,315 ,400 ,500 ,630 ,800 ,1000 ,1250 ,1400 mm	10-18mm
1200mm	1400mm	200 ,250 ,315 ,400 ,500 ,630 ,800 ,1000 ,1250 ,1400 mm	10-18mm
1400mm	1600mm	200 ,250 ,315 ,400 ,500 ,630 ,800 ,1000 ,1250 ,1400 mm	12-18mm
1600mm	1800mm	200 ,250 ,315 ,400 ,500 ,630 ,800 ,1000 ,1250 ,1400 ,1600 mm	12-20mm
1800mm	2000mm	200 ,250 ,315 ,400 ,500 ,630 ,800 ,1000 ,1250 ,1400 ,1600 mm	12-20mm
2000mm	2200mm	500 ,630 ,800 ,1000 ,1250 ,1400 ,1600 ,1800 mm	14-22mm
2200mm	2500mm	500 ,630 ,800 ,1000 ,1250 ,1400 ,1600 ,1800 mm	14-22mm
2400mm	2800mm	500 ,630 ,800 ,1000 ,1250 ,1400 ,1600 ,1800 mm	16-24mm
2600mm	3000mm	800 ,1000 ,1250 ,1400 ,1600 ,1800 mm	18-26mm
2800mm	3200mm	800 ,1000 ,1250 ,1400 ,1600 ,1800 mm	20-28mm



# Roll Types



## Carrier Roller

*Carrier Roller: Designed for high and medium speed conveyors.*



## Impact Roller

*Impact Roller: This roller absorbs the pressure and shock created by falling materials. It is formed from a steel roller with discs on it.*



## Helix Disc Roller

*Helix Disc Roller: Is a conveyor belt cleaning roller. It cleans the materials adhering to the surface of the band by rotating from the center of the roll to the edge.*



## Rubber Coated (Vulcanized) Roller

*This roller absorbs the pressure and shock created by falling materials in large material conveyor systems with heavy-duty conveyor belts . It is formed from a steel roller with discs on it.*



# Roll Types



**Return Roller**

**Return Roller:** This roller is used to provide and support the flow of the belt along the return line. If the material to be transported has a tendency to stick or if there are abrasion problems, the roller can be manufactured with rubber discs.



**Guide Rollers**

**Guide Rollers:** Cantilever-supported vertical rollers that prevent and center the belt's slip



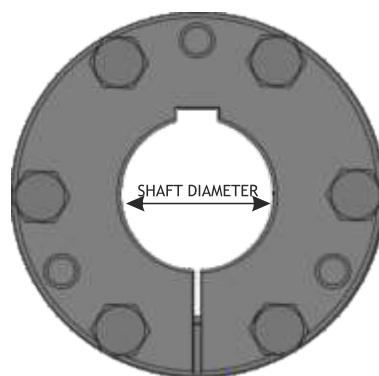
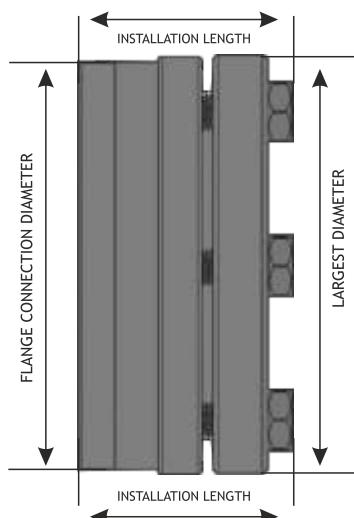
**Chain Gear Roller**



**Conical Roller**

**Conical Roller:** Generally, this roller is preferred for heavy loads and is used to allow the conveyor line to return

# Forceps



COLLET CODE	SHAFT DIAMETER	FLANGE DIAMETER	LARGEST DIAMETER	INSTALLATION LENGTH (except bolt)	INSTALLATION LENGTH (bolt included)
2012 CAPPED	$\varnothing 25 - \varnothing 40$	$\varnothing 93$	$\varnothing 98$	58 MM	65 MM
2517 CAPPED	$\varnothing 45 - \varnothing 60$	$\varnothing 125$	$\varnothing 128$	58 MM	65 MM
3020 CAPPED	$\varnothing 65 - \varnothing 80$	$\varnothing 153$	$\varnothing 157$	71 MM	80 MM
3535 CAPPED	$\varnothing 85 - \varnothing 95$	$\varnothing 196$	$\varnothing 200$	75 MM	85 MM
4040 CAPPED	$\varnothing 100 - \varnothing 120$	$\varnothing 212$	$\varnothing 216$	80 MM	91 MM
4545 CAPPED	$\varnothing 125 - \varnothing 145$	$\varnothing 250$	$\varnothing 257$	85 MM	95 MM
5050 CAPPED	$\varnothing 150 - \varnothing 175$	$\varnothing 303$	$\varnothing 315$	115 MM	125 MM
5555 CAPPED	$\varnothing 180 - \varnothing 225$	$\varnothing 350$	$\varnothing 359$	115 MM	130 MM
6060 CAPPED	$\varnothing 230 - \varnothing 250$	$\varnothing 430$	$\varnothing 440$	150 MM	165 MM

## CTL brand Standard Series Conical Locks



## Our productions



**Rubber band**



**Rubber scrapers**

10x100 / 10x150 / 10x200

10x250 / 10x300

10x1000x10.000



**Polyurethane  
scrapers**



**Special  
productions**



**Animal bedding**



## Rubber wedges



# Polyurethane products





## Certificates



This image shows a Turkish Patent Office (T.C. TÜRK PATENT ENSTİTÜSÜ) Mark Registration Certificate. The certificate is issued to 'TAMER İYİSAN PLASTİK KAHVE KİNSAAT SANASLILIK DİSKİPLİN LİMİTED ŞİRKETİ' for the mark 'TURKOMAN'. The registration number is MÜ 105718. The date of registration is 28.11.2015. The certificate includes the T.C. TÜRK PATENT ENSTİTÜSÜ logo at the bottom.



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