



AKKAYAMAKİNA
KONVEYÖR RULO ve YEDEK PARÇALARI

CATALOG



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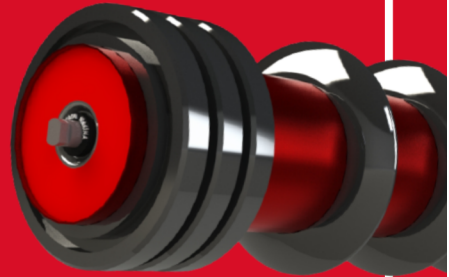
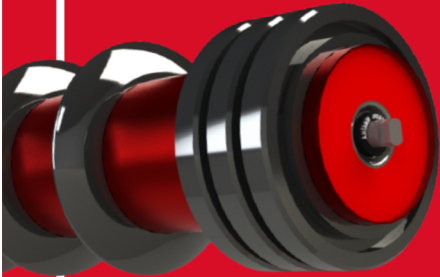


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ABOUT US

Established as a small turning workshop in the 1970s, Akkaya Makina has become one of Turkey's leading companies in the production of conveyor systems and spare parts. This accumulation of more than 50 years of experience has made Akkaya Makina one of the preferred companies in the African, Asian and European markets. Today, Akkaya Makina continues to direct the sector with its determination and innovative thoughts from the past.

Thanks to its experienced staff, R&D studies and fully automatic workbenches suitable for today's technology, Akkaya Makina has;

- Fast delivery,
- Long life,
- Cost effective,
- High processing precision products.

Akkaya Makina, which invested in a new factory with an area of 8025 m² in Ankara Kahramankazan in 2021, increased its production area 3 times compared to previous periods and increased the number of machines 1.5 times in the same year. Aiming to double its current production capacity by 2025, Akkaya Makina continues to invest in people and technology.

In addition to the ISO 9001, ATEX and ISO 14001 documents it holds, Akkaya Makina can perform the tests of the conveyor rollers specified in the DIN22112-3 norm in its TS/EN ISO 17025 certified laboratory. Adopting the Lean Production and Kaizen philosophy as a principle for many years, the company aims for excellence at every stage from design to sales and after-sales services, keeping customer satisfaction in the foreground.



QUALITY POLICY

The company, which has high knowledge and production experience in the machining sector, in line with its goal of being the leader in Turkey and one of the leading companies abroad;

- To meet customer demands in a timely and complete manner and to offer products beyond customer expectations,
- To offer products at the highest quality level by closely following technological developments,
- To comply with legal and regulatory requirements,
- Paying attention to the training of its employees,
- Bringing its name to mind with the concept of security,
- To ensure the continuity of the Quality Management System and to improve it,

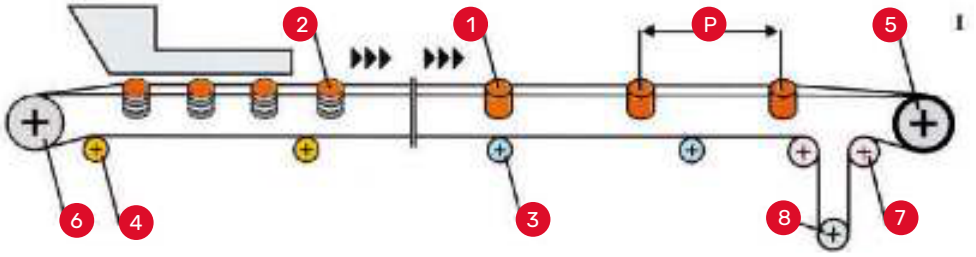
has been adopted as a quality policy.



PRODUCTION CAPABILITIES

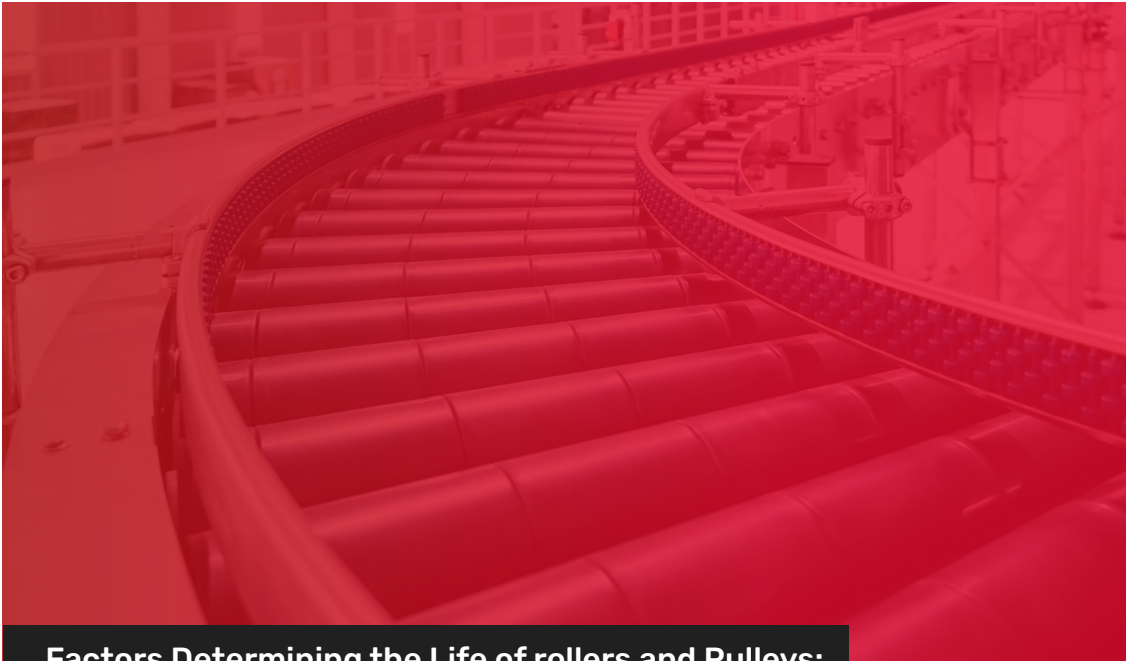
- Double axis machining centers capable of processing pipes and shafts in both directions at the same time,
- CNC lathes with 2 and 3 axes that can process up to Ø580 mm, L: 3000 mm,
- Welding systems that can weld cylindrical parts on both sides at the same time,
- Electrostatic powder coating plant,
- Universal lathes that can process up to Ø1250, L:3000 mm,
- Milling machines
- Hydraulic and eccentric presses from 20 tons to 500 tons.

General Information About Conveyor System



NUMBER	NAME
1	Idler Trough Set
2	Impact Trough Set
3	Return Roller
4	Snub Pulley
5	Drive Pulley
6	Tail Pulley
7	Bend Pulley
8	Take-up Pulley
P	Distance Between Rollers

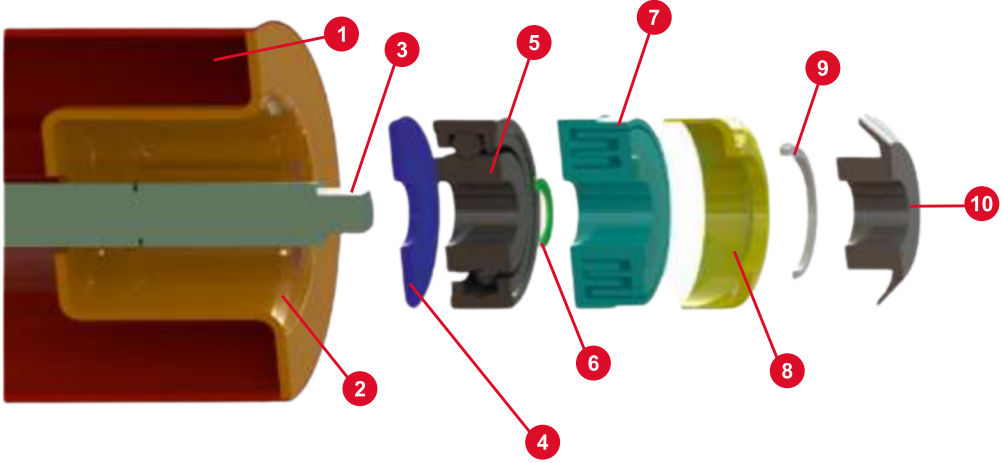




Factors Determining the Life of rollers and Pulleys;

- Weight of the transported material,
- Belt width,
- Characteristics and type of bearings,
- Regular lubrication and maintenance,
- Sealing elements,
- Specially produced precision-tolerant materials for roller and pulley manufacturing,
- Uninterrupted and automatic welding.

Technical Details About Rollers



- Pipes are manufactured with a minimum thickness of 3 mm from welded or seamless, depending on demand.
- Pipe manufacturing is made via fully automatic machines that can process both sides at the same time.
- Bearing housings are welded to the pipe on both sides at the same time via fully automatic machines.
- Roller shafts are manufactured from the desired quality material in CNC lathes.
- Bearing housings and dust caps are manufactured from sheet metal as calibrated.
- Inner dust seals, labyrinth sets and outer dust seals are made of Polyamide-6 material.
- Special greases produced in accordance with their purpose are used in the production of rollers.
- Rolls are painted in 60-90 micron thickness with electrostatic powder coating method in order to prevent corrosion.

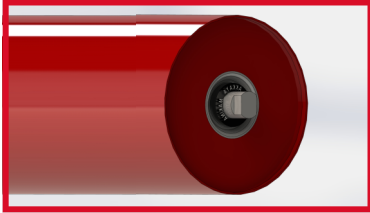
TABLE

NUMBER	NAME
1	Pipe
2	Bearing Housing
3	Shaft
4	Inner Dust Seal
5	Bearing
6	Circlip
7	Labyrinth Set
8	Dust Cap
9	VA Seal
10	Outer Dust Seal

Rollers According to Bearing Codes

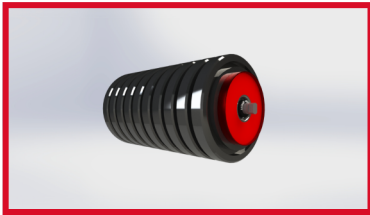
	6200	6201	6202	6203	6204	6205	6206	6305	6306	6308	6310
Ø42	✓	✓									
Ø48	✓	✓	✓								
Ø51	✓	✓	✓	✓							
Ø60	✓	✓	✓	✓	✓						
Ø63	✓	✓	✓	✓	✓	✓					
Ø76			✓	✓	✓	✓	✓	✓			
Ø89				✓	✓	✓	✓	✓	✓		
Ø102					✓	✓	✓	✓	✓		
Ø108					✓	✓	✓	✓	✓		
Ø114					✓	✓	✓	✓	✓		
Ø127					✓	✓	✓	✓	✓	✓	
Ø133					✓	✓	✓	✓	✓	✓	
Ø139					✓	✓	✓	✓	✓	✓	✓
Ø159					✓	✓	✓	✓	✓	✓	✓
Ø194					✓	✓	✓	✓	✓	✓	✓

Various Types of Rollers



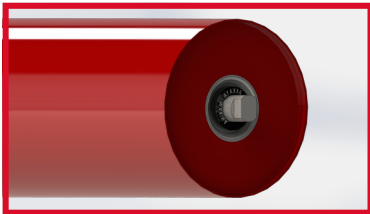
Conveyor Idlers

Idler rollers are most common type of rollers used in conveyors.



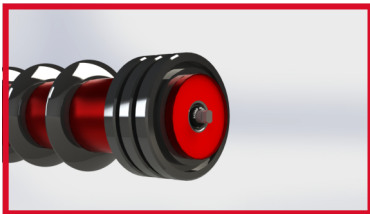
Impact Rollers

Impact rollers are used in high impact areas on conveyors.



Return Rollers

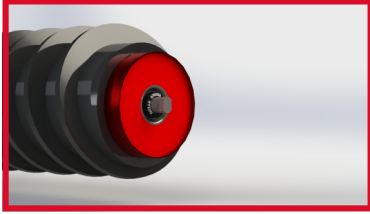
Return rollers are idlers on the return side of conveyors.



Return Rollers With Disc

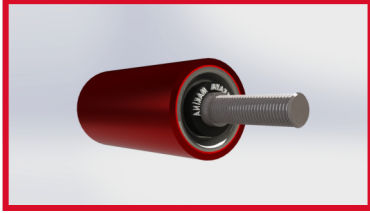
Main aim of Return Rollers With Disc is to prevent conveyed materials sticking to belt.

Various Types of Rollers



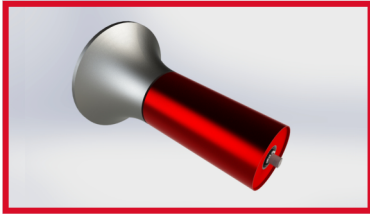
Return Rollers With Helical Disc

Instead of Return Rollers With Disc, helical discs are used in conveying more sticky materials.



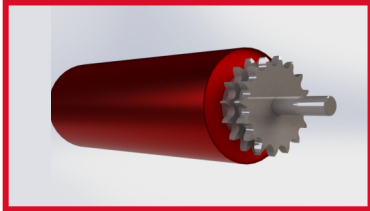
Support Rollers

Support Rollers are used for centering conveyor belt.



Centering Rollers

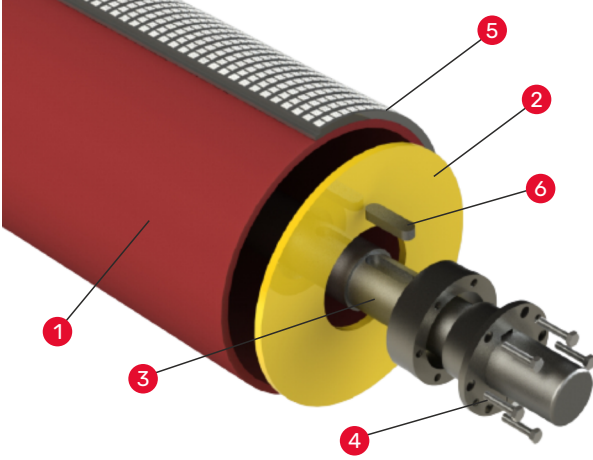
Centering Rollers are used in turn areas instead of Support Rollers.



Chain Driven Rollers

Chain Driven Rollers are commonly used for unit handling.

Technical Details About Pulleys



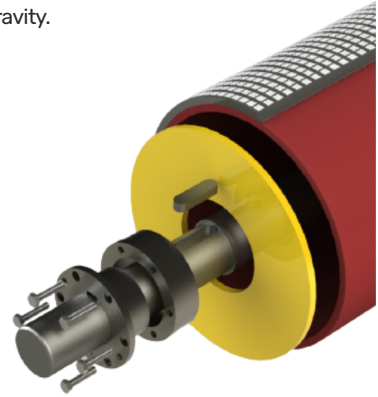
NUMBER	NAME
1	Pipe
2	Flange
3	Shaft
4	Taper Lock Bushing Set
5	Lagging (Optional)
6	Key

Pulleys are used to drive, tense and change the direction of conveyor system. As Akkaya Makina, we are able to manufacture pulleys up to $\varnothing 1250$ mm and L=3000 mm.

- Pipes are manufactured from welded or seamless, depending on demand.
- Material of shaft is provided on request. Pulley shafts are machined via 3 axis CNC lathes.
- Static balancing is made to pulleys to prevent rotating due to force of gravity.
- Fully automatic welding machines are used in manufacturing.
- High precision, heavy duty.
- Designed for long lasting usage.

Lagging Types

- Ceramic Lagging
- Ceramic/Rubber Hybrid Lagging
- Hot Vulcanised Lagging
- Cold Vulcanised Bonding
- Replaceable Slide Lagging



Various Types of Rollers

Drive Pulley

Drive pulleys are attached to a power source. That source rotates drive pulley which drives whole conveyor system.

Tail Pulley

Tail pulleys are located at the end of the belt. It's usually a idler pulley.

Snub Pulley

Snub pulleys increases contact surface of tail pulley and drive pulley, which also increases friction and prevents skidding.

Bucket Elevator Pulley

Specially designed for bucket elevators. Best solution for material discharge.

Bend Pulley

Bend pulleys are used for changing the direction of the belt.

Take-up Pulley

Take-Up pulleys are used to remove slack and increase tension of the belt.

Spare Parts



Belt Cleaners



Taper Lock Bushings



Rubber Discs

Spare Parts



Bearing Housings



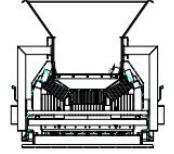
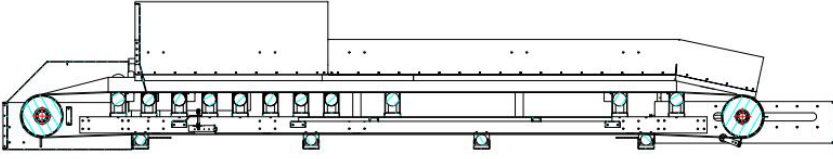
Roller seals



Conveyor Frame Parts

Conveyor Systems

In line with your request, complete conveyor systems in the desired size and specs, suitable for working conditions, are designed and delivered on a turnkey basis.



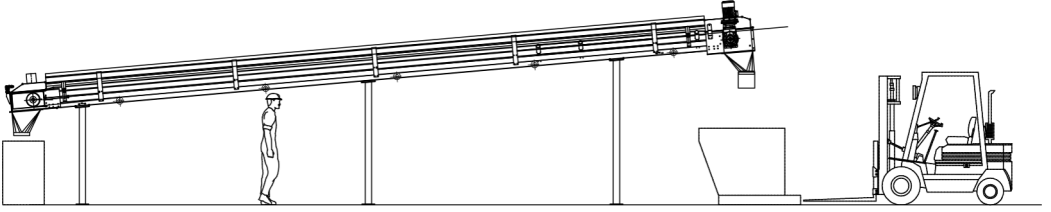
Sivas / Divriği

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Conveyor Systems

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K.Maraş/Elbistan

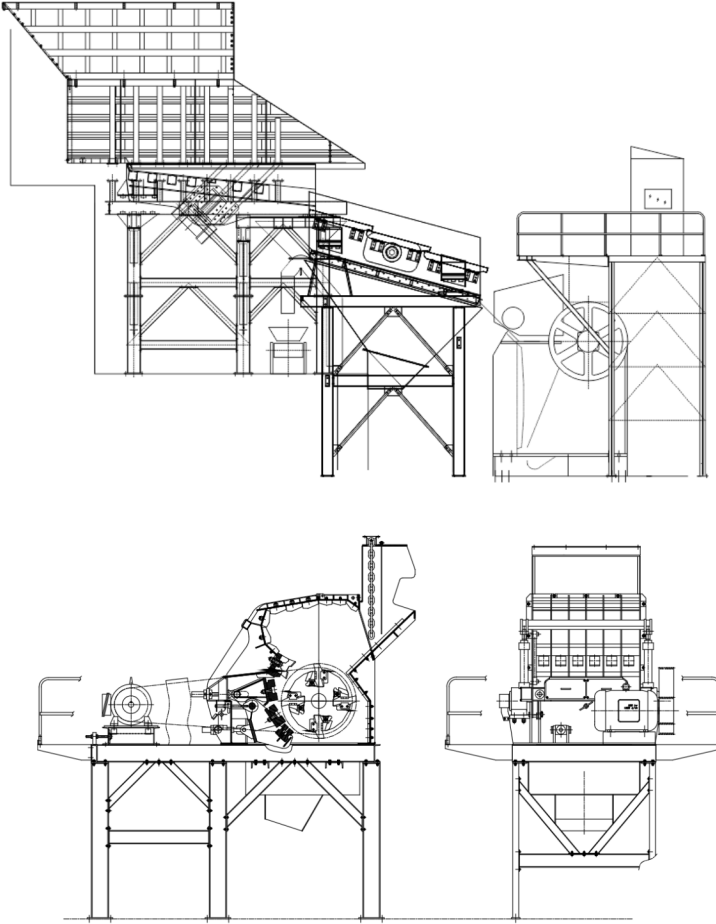


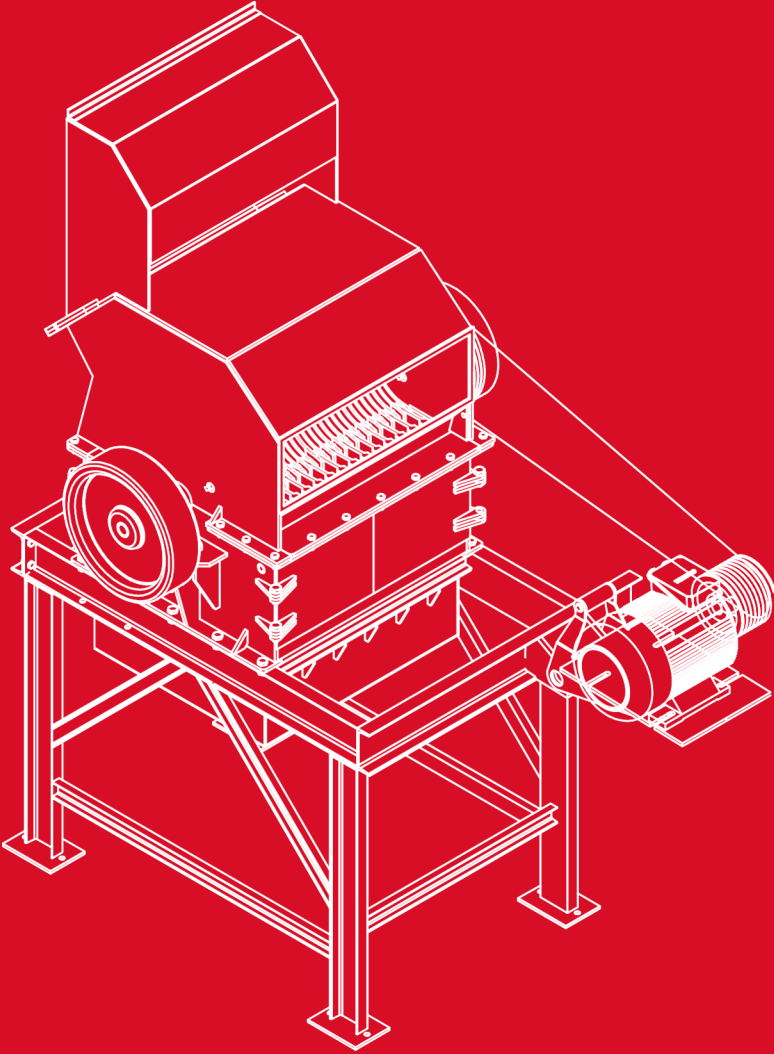
Kütahya / Seyitömer



Crushing and Screening Systems

We design, manufacture and assemble crushing and screening systems in order to get the desired size of material in the mines.





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