

# **MECHANICAL ENGINEERING BROCHURE**

In the world of industrial automation and bulk handling, **conveyor systems are the backbone of efficiency**. Whether you're moving ore, packaging goods, or streamlining assembly lines, the performance of your operation hinges on the reliability, precision, and durability of your conveyor infrastructure. We at **Wealthpride** are invested in giving you nothing but the best in service and spare parts. We do the following:

## **Conveyor Systems: Sales, Installation & Service**

### **1. Belt Conveyors**

- Ideal for high-volume, continuous transport
- Available in rubber, PVC, modular plastic, and cleated designs
- Custom widths, speeds, and incline configurations

### **2. Chain Conveyors**

- Heavy-duty solution for rugged environments
- Designed for high-impact loads and abrasive materials
- Perfect for mining, foundries, and processing plants

### **3. Roller Conveyors**

- Gravity or powered options
- Precision bearings for low-friction movement
- Modular frames for easy expansion

### **4. Screw Conveyors**

- Enclosed systems for powders, granules, and semi-solids
- Variable pitch and diameter for flow control
- Stainless steel options for food-grade applications

### **5. Bucket Elevators & Pneumatic Conveyors**

- Vertical lift systems for granular and bulk materials
- High-speed, dust-controlled transport
- Explosion-proof configurations available



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## Conveyor Systems: *Parts Sales, Installation & Repairs*

Component	Technical Role & Features
<b>Idlers &amp; Rollers</b>	Carrying, return, impact, and training types; sealed bearings; anti-corrosive coatings
<b>Pulleys</b>	Head, tail, snub, bend, and take-up pulleys; rubber lagging; dynamic balancing
<b>Drive Units</b>	Motors, gearboxes, and VFDs; torque-rated for continuous duty; overload protection
<b>Belts &amp; Chains</b>	Multi-layered carcass belts; modular plastic chains; heat, oil, and abrasion resistance
<b>Frames &amp; Supports</b>	Galvanized steel, aluminum, or stainless; vibration-dampened; load-rated structural Design
<b>Fasteners &amp; Fittings</b>	High-tensile bolts, clamps, and brackets; precision alignment kits; quick-release systems

## Our Processes

### 1. Conveyor Design & Simulation

- Belt, screw, bucket, and pneumatic systems
- Throughput modeling using software
- Load sensors, speed controllers, and PLCs

### 2. Fabrication & Installation

- Stainless steel frames and rollers
- Motorized drive units and tensioning systems
- Dust suppression and safety interlocks

### 3. Maintenance & Retrofit Services

- System diagnostics and performance audits
- Replacement of worn components
- Automation upgrades and energy optimization

### 4. Sector Applications

- Mining: coal, chrome, gold ore handling etc.
- Agro-processing: maize, tobacco, soybeans
- Manufacturing: packaging, assembly lines

