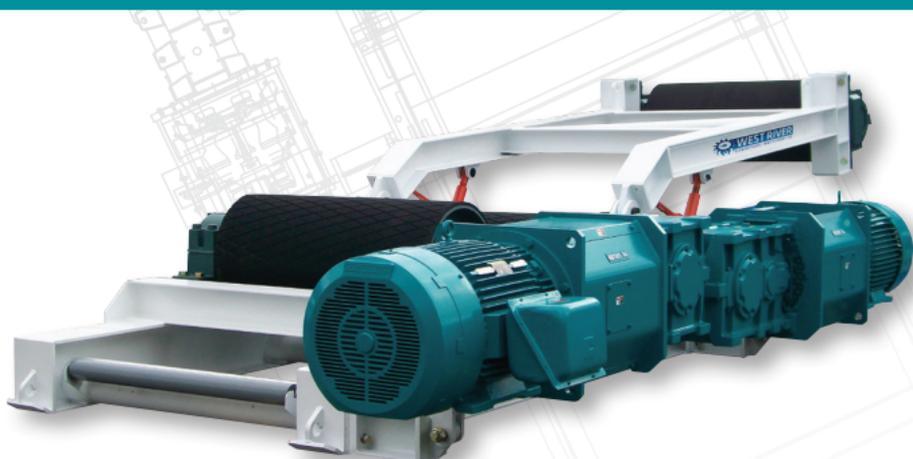


## BELT DRIVES



**West River Conveyors and Machinery Co.** is a leader in custom-designed, custom-built belt drives. Our drives are built from carefully selected, industry leading materials and constructed to provide a strong and rigid, mine-duty frame that doesn't distort during installation or use. Our heavy-duty frames are built from a heavier steel than many companies use, providing a drive that withstands the most demanding underground and above ground bulk manufacturing operations. Our ability to work with you to create a drive suitable to your needs is our number one priority. Utilizing the most advanced design programs allows our engineers the flexibility to create drives for many unique applications.

### ALIGNMENT-FREE DRIVE

An alignment-free drive refers to the power base components – reducer, fluid coupling and motor – properly constructed to eliminate shaft misalignment. With an alignment-free drive, there are two critical elements, input and output, where the need to align is completely eradicated, making it a great choice for those interested in long-term cost savings and efficiency.

#### Benefits:

- eliminates catastrophic immediate failure of input if misaligned
- eliminates rapid wear of components if output is misaligned
- most energy efficient choice, none wasted in transmission
- reduces need for spare parts inventory
- bolt-together construction allows for ease of installation

**West River's alignment-free drives are offered in any desired belt width and horsepower/voltage required for your operation.**

## COMBINATION DRIVE/TAKE-UP UNIT:

A combination/take-up drive is a belt drive and take-up unit all within one skid. This type of drive uses commonly available drive components including a shaft mounted reducer, v-belts and belt sheaves, making the drive less expensive than special designed units. This drive is widely used and a popular choice among those interested in quick installation and preconstructed alignment.

### Benefits:

- quick installation
- easy transport — both drive and take-up on one movable base
- desirable for short runs — 1,500-1,800 feet
- no alignment of components necessary
- utilizes less expensive and readily available components

**The combination drive/take-up unit is available in any desired belt width and horsepower/voltage required.**

## CHAIN DRIVEN DRIVE:

A chain driven drive refers to the connection between the output shaft of the reducer and the input shaft of the pulley using chains and sprockets to achieve gear reduction. It is the narrowest of the drives we offer and moves completely intact, making it an attractive option for those looking for lowered installation costs.

### Benefits:

- most narrow drive available
- moves completely intact
- less expensive than alignment-free drives (lower reducer cost)
- fluid coupling option is available

**Our chain driven drives are available in a variety of belt widths and desired horsepower/voltage.**

## SHAFT MOUNTED REDUCER BELT DRIVEN DRIVE:

The shaft mounted reducer belt driven drive uses a shaft mounted reducer, such as Dodge or Falk, attached to the input pulley shaft with a tapered bushing. A v-belt or cog belt from the motor to the reducer input shaft is used. It shares similar features with an alignment-free unit, but is commonly used for 150 hp drives and lower.

### Benefits:

- low speed side alignment (bushing rigidly attached to shaft)
- high speed side alignment accomplished with simple tools and can be done in minutes
- uses common components that are easily replaced, minimizing downtime
- reduces need for spare parts inventory

**We can provide the shaft mounted reducer belt driven drive in a variety of belt widths and any desired horsepower/voltage.**