

Core Systems® Designs



Power Transmission Conveyor Components Consulting Services



Standard Sizes

(Custom Sizes Available Upon Request)

- ▶ Diameter: Up to 60"
- ▶ Face Widths: Up to 120"
- ▶ Shafting: Up to 15"

Frequently Asked Questions

What is Core Systems Designs?

- ▶ *Simply put, it's a consulting service to design and supply your power transmission components.*

When do I need Core Systems Designs?

- ▶ *Anytime you need design expertise advice of your conveyor drive packages. The benefit of the service is, you avoid designing the system or gathering all the parts on your own. It's one phone call, one point of contact and one warranty. If all you need is a conveyor pulley, then you probably don't need Core Systems Designs.*

Who do I call?

- ▶ *We've partnered with local distributors to get you the best service and support. To find yours, visit superior-ind.com/distributor.*



CORE SYSTEMS DESIGNS - DUAL HEAD END DRIVE

Features and Benefits

Single Source Supplier

- ▶ Avoid sourcing parts packages from multiple vendors
- ▶ One point of contact
- ▶ One point of purchase

Performance Matched Components

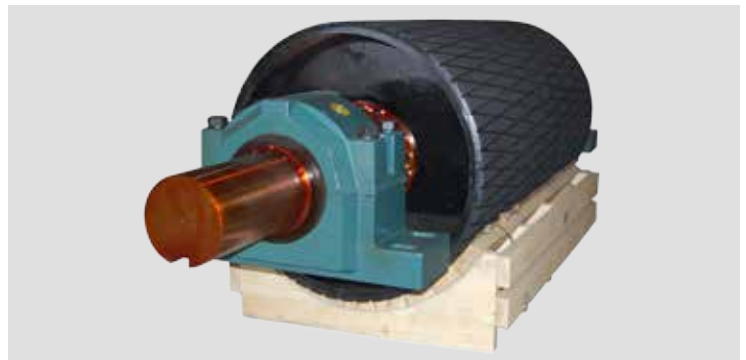
- ▶ Engineering services align power transmission components to your application
- ▶ Engineers apply Finite Element Analysis (FEA) to build per application stress conditions

Pre-assembled Parts Packages

- ▶ Eliminates the headaches of onsite assemblies
- ▶ Reduces installation time

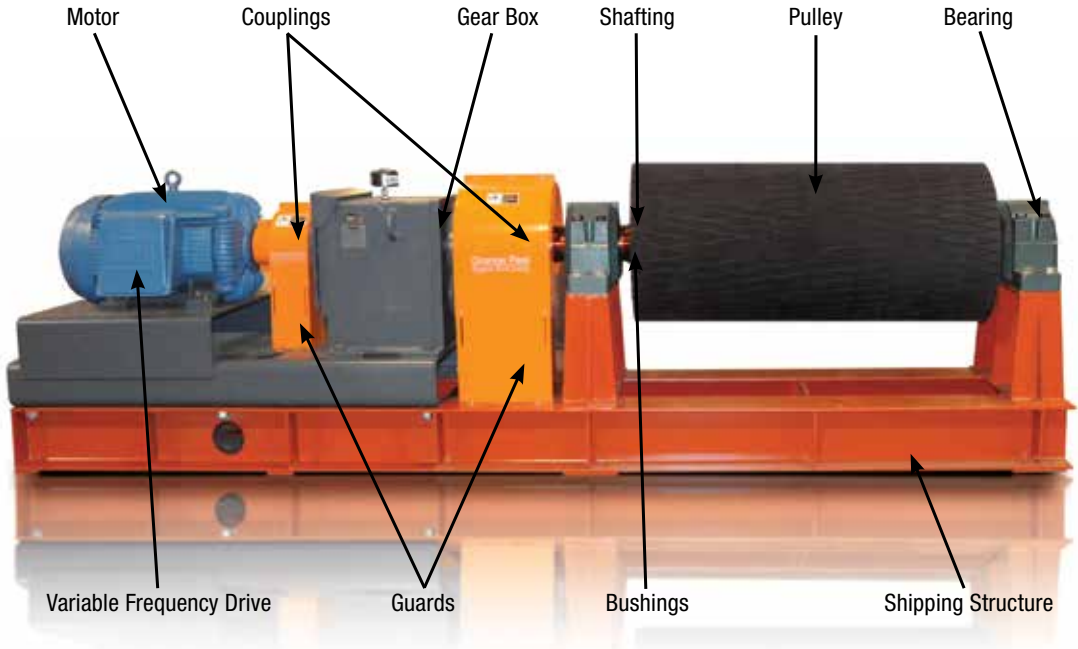
Quick Deliveries

- ▶ Deliveries exceed industry standards
- ▶ Optional 1-2 day turnarounds
- ▶ Expediting services available
- ▶ Stocked power transmission warehouse

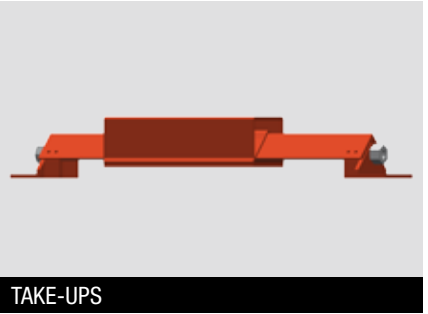
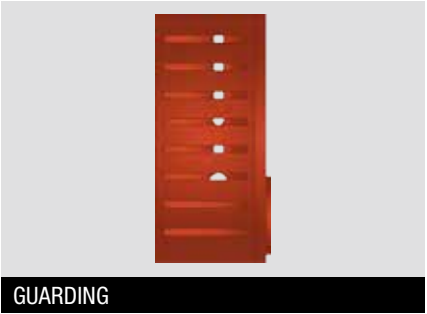
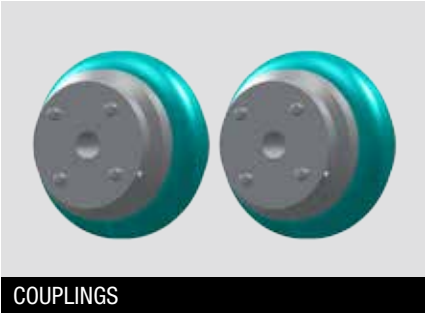
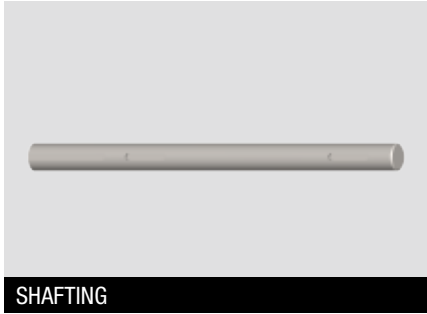
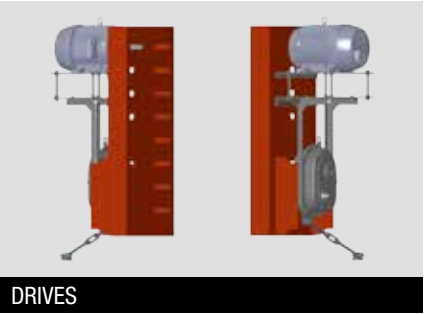
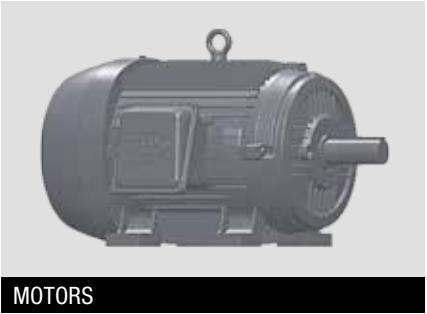
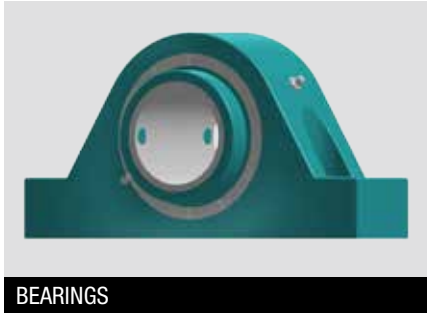


Single Source Supplier

Engineering consultants work directly with you to determine the correct drive package for your application.



Complete Drive Packages



How it Works



Drive Package Replacement

- ▶ There are two routes, sourcing and assembling the parts on your own or accessing them through one point of purchase.

Contact Superior Distributor

- ▶ We are partnered with some of the best distributors in North America for local sales and support. Find them at superior-ind.com/distributor.



Engineering Consultants Design Package

- ▶ Using the specs of your application, a performance matched package is engineered.

Manufacturing and Assembly

- ▶ Optional 1-2 day turnarounds from phone call to completion if needed.



Package Delivery

- ▶ Guaranteed to work, with the security of a two-year warranty.

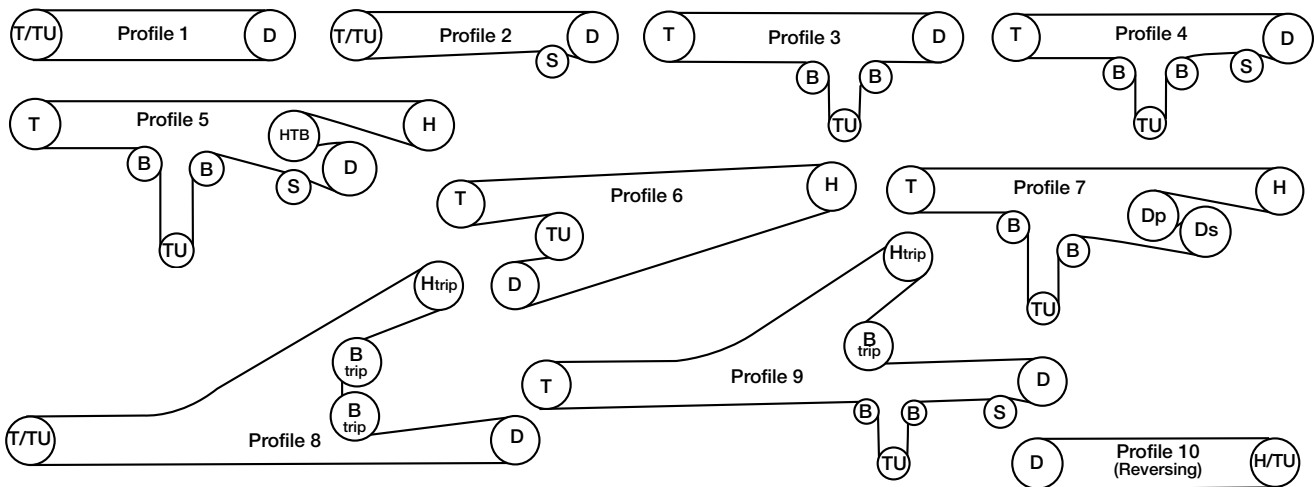
Core Systems Pulley Data Sheet

Complete this Form for a Customized Core Systems® Quotation

coresystems@superior-ind.com • Toll Free – 800-321-1558 • Fax – 320-589-3892

Date _____	Submitted By _____
Customer _____	Contact Name _____
Plant/Mine/Project _____	Contact Phone or Email _____
Application Data:	Altitude (ft) _____
Ambient Temp Range (degrees) _____	Operation (days/year) _____
Operation (hours/day) _____	Material (type & max lump size) _____
Conveyor Data:	Material Density (lbs/ft ³) _____
Conveyor Name/Tag _____	Material Repose Angle (degrees) _____
Conveyor Capacity (TPH) _____	Trough Idler Angle, Spacing & Roll Diameter _____
Conveyor Length (ft) _____	Return Idler Angle, Spacing & Roll Diameter _____
Conveyor Lift (ft) or Incline (deg) _____ <small>(if not linear, please sketch curve below)</small>	Number of Belt Scrapers/Cleaners _____
Belt Width (in) _____	Number of Belt Plows _____
Belt Speed (FPM) _____	Length of Skirtboards (ft) _____
Motor Horsepower (if known) _____	Height of Material on skirts (in) _____
Type of Soft Start _____ <small>(Electronic; VFD; Fluid Coupling; or none)</small>	Conveyor Belt Details (if known) _____
Take-Up Type (manual or automatic) _____	Fabric or Steel Cord _____
Total Installed Counterweight (lbs) _____	Number of Plies & PIW (if known) _____
Bearing Centers (in) _____	Covers top x bottom (in x in) _____

Conveyor Profile (See types 1 – 10 below). Circle one.



If profile differs from one shown, please sketch here:

