

Engineered Belt Terminal Groups





Engineered Solutions

Caterpillar offers custom-designed, heavy-duty engineered belt systems solutions and belt products to handle the most demanding bulk-material handling requirements in both underground and surface applications. Cat® belt terminal groups are precision engineered to meet each customer's mining or tunneling requirements and experienced technicians are available to supervise the installation and ensure a smooth startup.

Conveyor Drives

- Designed to provide power based on conveyor specifications
- Parallel or alignment-free design option
- Alignment-free design gives the following benefits
 - Ease of setup and installation
 - Ease of transportation in and around mine
 - Narrower overall drive width
 - Universal mounting – left-hand or right-hand mounting
 - Reduced operating maintenance
- Supports both mechanical and electrical technologies (Fluid Couplings or Variable Frequency Drive (VFD), etc.)
- Engineered class pulleys



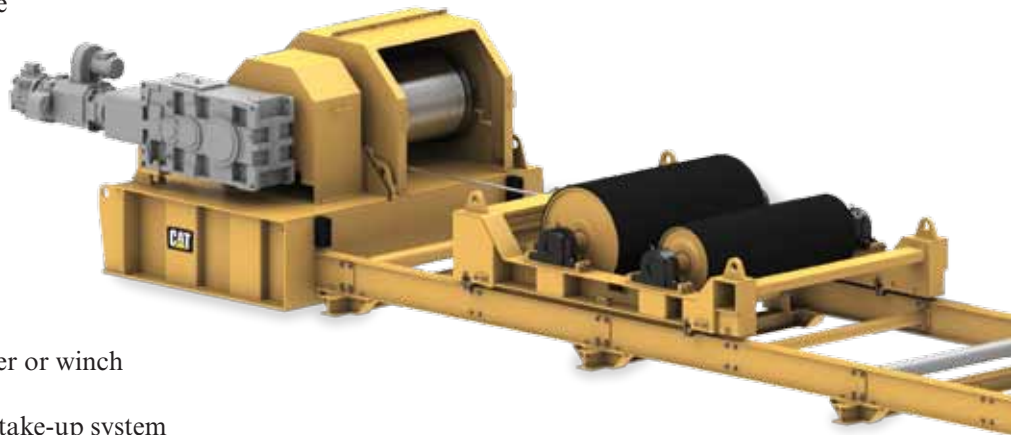
Remote Discharges

- Available in floor-mounted or roof-hung configurations
- Remote A-frame design
- Attached boom design with ratchet jacks
- Designed for in-line, 30-, 60- or 90-degree transfer points
- Includes engineered class pulley
 - Snub pulley available
 - Integrated tail pulley available on A-frame design



Belt Take Ups/Storage Units

- Cat take-ups/storage units apply accurate and very responsive belt tension
- Various designs available to meet customer needs
 - Hydraulic or electric winch design
 - Hydraulic cylinder design
 - Active travel length/belt storage per design requirements
- Each take-up pulley is a tension-specific, engineered class pulley
 - Designed for the max force each cylinder or winch can provide
 - Eliminates any weak links in the entire take-up system



Loading Sections

- Cat loading sections are designed and built for the steady, efficient transfer of extracted materials
- Two common designs: in-line and off-set
- Intermediate and tail loading sections offer either impact resistant idlers or EXALON® impact slider beds
- Rigid, heavy-duty engineered loading frame
- Designed to receive discharges from various haulage equipment



Engineered Class Pulleys

- Cat engineered class pulleys are each designed to meet the specific power and tension needs of the conveyor system
- Two design options: Turbo-Disc and T-Bottom
- Design features:
 - Profiled end-discs machined from solid steel plate eliminating all welds in areas of high-stress concentrations
 - Keyless locking elements eliminate the unfavorable hub-to-disc weld and pre-stressing of the end-disc during assembly
 - Proprietary welding techniques ensuring complete penetration—1 Bevel Groove weld vs. 3 Circumferential fillet welds
 - A machined “pipe” rim (A53 Grade B pipe) eliminating the need for center discs/stiffeners
 - Static balancing
 - Standard 3 year pulley warranty



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