

BEHIND *the* STEEL

Hydraulic-Powered Belt Storage Units

Hydraulic powered **Belt Storage Units** can be configured to fit any above-ground or underground mining operation. They are available in any belt width and allow for multiple belt storage capacities from 40-50 feet up to 400-800 feet and larger.

Multiple designs can be used for long panel advancements on a main belt line to prevent frequent belt splicing. When used in conjunction with a constant tension winch, they are able to control belt tension based on load cell readings.

BENEFITS:

- Can offer an option of belt splicing tables with power clamps to a basic storage unit design
- Multiple lap configurations available
- Work closely with our engineers to create custom units to your preferences
- Ability to offer storage units from the smallest to the largest
- Custom guarding options

» 20"x57" Take-up Pulley

This unit has four 20"x57" crowned-face mine-duty take-up pulleys: 1/2" minimum rim thickness, 5 15/16" shaft, 4 15/16" through keyless locking element, equipped with 3 15/16" solid, 4-bolt bearings.

» 26"x57" Take-up Pulley

This unit has four 26"x57" crowned-face mine-duty take-up pulleys: 1/2" minimum rim thickness, 5 15/16" shaft, 4 15/16" through keyless locking element, equipped with 3 15/16" solid, 4-bolt bearings.

» Carriage Frame Construction

Moveable carriage frame construction of this belt storage unit allows the **1 lower frame** and **2 upper frame** to be moved or adjusted separately.

» Upper & Lower Frame

Made from heavy-duty structural steel, this unit is manufactured and assembled as separate upper and lower stationary frames. This design allows for easier installation and maintenance.

» 12" Diameter Hydraulic Cylinders

Two 12" diameter heavy-duty steel hydraulic cylinders (108" stroke) on each level operate the upper and lower moveable carriages.

» 14"x57" Drum Pulley

This unit has five 14"x57" crowned-face mine-duty drum pulleys: 1/2" minimum rim thickness, 5 15/16" shaft, 4 15/16" through keyless locking element, equipped with 3 15/16" solid, 4-bolt bearings.

» Load Compression Cell

Instruments used to measure force, called load cells (located under pulley), assist in controlling belt tension. VFD starters will control tension based on load cell readings.

» 32"x57" Pulley

Two 32"x57" crowned-face mine duty pulleys: 1/2" minimum rim thickness, 5 15/16" shaft, 4 15/16" through keyless locking element, equipped with 3 15/16" solid, 4-bolt bearings.

» "Back" Support for Roof Mount

4. A self-supporting frame mounted to the roof "back" support system was applied to meet the customer's specific needs.

Smart Feature:

All pulleys on this belt storage unit are equipped with the same 3 15/16", 4-bolt solid bearings, even though pulley sizes vary. This eliminates the need for additional spare parts inventory.

Reverse Angle



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