

PMP



Belt Storage Magazine

Prairie Machine & Parts | A World Leader in Supplying Underground Mining Equipment



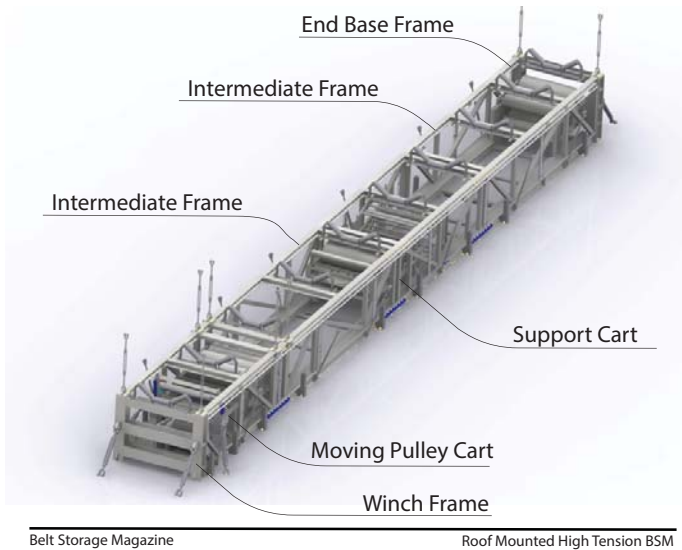
Performance & Productivity

Belt Storage Magazine

The Belt Storage Magazine (BSM) is used in applications where dynamic belt storage is required. It maintains belt tension during startup, and operational conditions.

The BSM can be designed for a variety of belt widths and lengths. It can be mounted on the floor or suspended from the roof.

During normal operation, the BSM is designed to function automatically with no need for an operator to continually monitor the machine.



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Roof Mounted High Tension BSM

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Standard BSM

High Tension

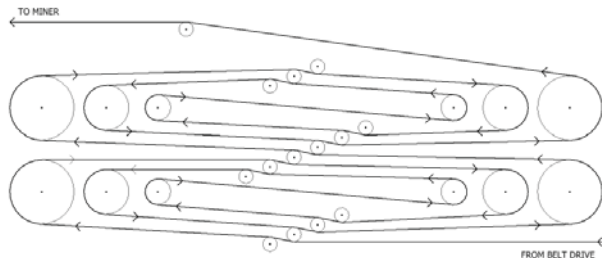
The High Tension version of the BSM provides up to 60,000 lbf of line pull by using a stronger, more robust frame, a larger winch, and a larger hydraulic drive

Operation

The BSM works by weaving the belt back and forth between a series of pulleys, half of which are stationary, while the other half are fixed to moving carts. This allows for dynamic belt extension, while maintaining constant belt tension.

Remote Power Unit

When equipped the Remote Power Unit is the source of all electrical controls and hydraulic power for the BSM. It is remotely connected to the BSM allowing for manual operation of the system controls from a safe distance.



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Belt Path



Belt Storage Magazine

Remote Power Unit

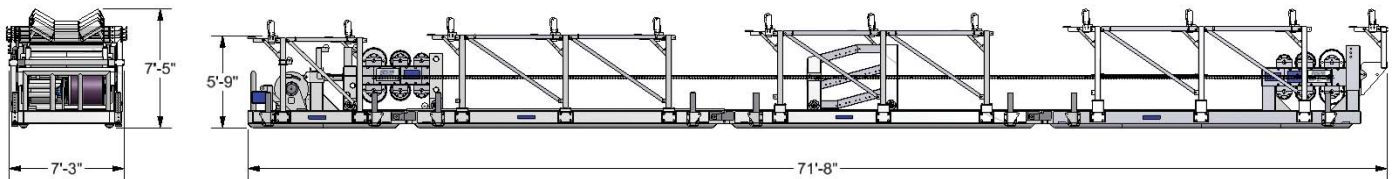
The belt take-up units are fitted with a hydraulically controlled brake system integrated to the winch drum, to allow the system to be shut down while still maintaining tension on the belt.

Specifications

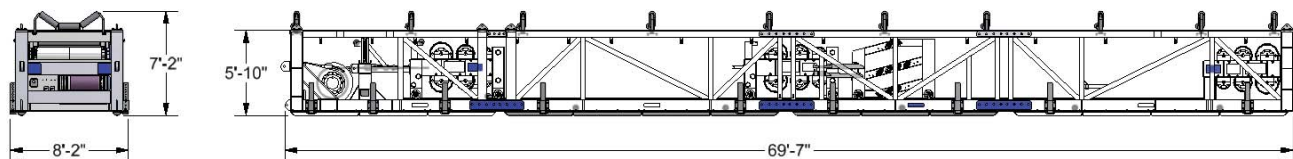
Technical Specs

	Standard	High Tension
Belt Take-Up Capacity	120ft to 1200ft (36m to 365m)	120ft to 680ft (36m to 207m)
Electric Motor	75HP, 365 TC Frame, 1800 RPM, 3-Phase, 60Hz, Nema B Design	150HP, 365 TC Frame, 1800 RPM, 3-Phase, 60Hz, Nema B Design
Max T2 Belt Tension	5,000lbs (30,000 x 2/12 strands)	10,000lbs (60,000 x 2/12 strands)
Max Rope Pull Force	30,000lbf (133.5kn)	60,000lbf (267kn)
Max Cable Reel (in Speed)	80 ft/min (24 m/min)	108 ft/min (33 m/min)
Max Belt Reel (in Speed)	480 ft/min (146 m/min)	650 ft/min (198 m/min)
Max Cluster Speed	40 ft/min (12 m/min)	54 ft/min (16.5 m/min)
Running Belt Clearance	18in (450mm) wider than belt	18in (450mm) wider than belt
Belt Width	36in to 60in (900mm to 1500mm)	36in to 60in (900mm to 1500mm)
Hydraulic Package	Integrated into frame or mounted remotely	Mounted remotely
	** Custom units available upon request **	** Custom units available upon request **

Standard



High Tension



Safety Features

- Safety guards on all moving parts
- Emergency Stop Circuit
- Limit switches on the belt clamp to gauge if the belt is completely empty or full
- Fire Suppression (optional)
- Remote Hydraulic Unit equipped with oil temperature and oil level shutdown switches

Operational Features

- High belt storage capacity
- Space efficient package, easily moved from one area to the next
- Design emphasis placed on minimizing the number of bearings for low cost operation
- The BSM is easily customized for various applications

Service / Maintenance Features

- Heavy duty construction
- All pulleys designed and positioned for easy removal
- Manufactured to Quality Assurance Standard ISO 9001:2008

For more information contact your PM&P representative at 1.888.933.4812

ISO | **9001:2008**
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