

# PMP



## Flexiveyor

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





MORE THAN A

CONVEYOR

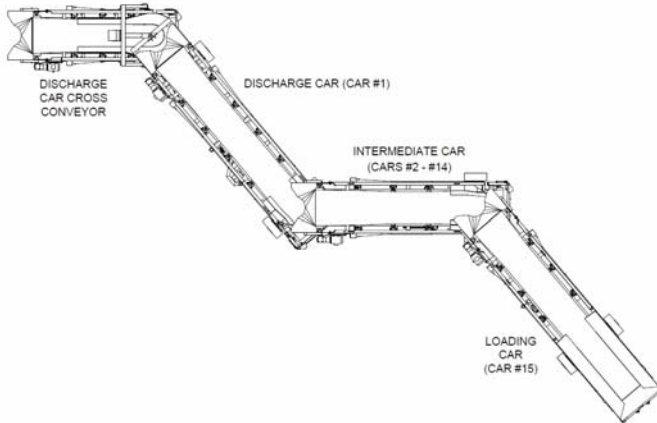
With more than 20 years of development, the Flexiveyor™ has proved itself as an industry leader in continuous haulage. The Flexiveyor™ is a dependable, cost effective solution that will add productivity to your operation



# Performance & Productivity

## The Flexiveyor

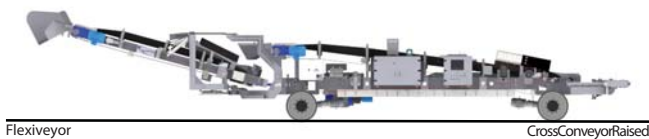
The PM&P Flexiveyor is designed to simultaneously follow a mining machine into a mining room while continuously conveying material. Highly customizable to fit into a wide cross section of different mining applications, the Flexiveyor can tram and convey through rough terrain, around corners, and up to 10% grades



## Continuous Haulage

The Flexiveyor is a mobile conveyor with a fixed length series of cars which are mechanically connected together forming a train-like system (total length of which is application dependent). Each car is powered independently for tramping and conveying and each car conveyor has its own automatic belt training system.

The mining machine dumps material into the load car, the material is then conveyed along each intermediate car and is discharged onto the panel conveyor belt via the discharge car.



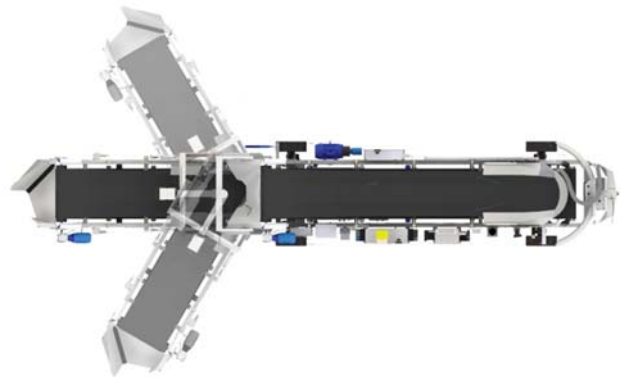
## Operator Controls

The Flexiveyor has been designed so that one person can steer and drive it. Machine functions are controlled utilizing the latest PLC technology and steering algorithms.

Three different sources can be used with the system; Radio remote, wired pendent, or the operator panels located on the side of the machine

## Conveyance

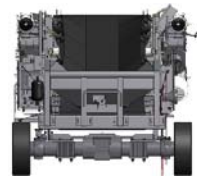
The discharge car has a cross conveyor which will raise, lower, and swing from side to side allowing material to transfer onto the panel conveyor from either side of the machine. Each inter-car transition has been carefully designed to minimize spillage while allowing three separate degrees of freedom.



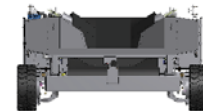
Flexiveyor

CrossConveyor

The Inter-car hitching system provides a 50-degree inter-car steering angle and up to 7-degree inter-car inclination and roll angle. Tramping can be in either direction and the lead car lays the path for the other cars to follow



Flexiveyor Standard



Flexiveyor Low Profile



Flexiveyor StraddleOver

## Configurations

The Flexiveyor system is comprised of a loading car, a series of intermediate cars, and a discharge car and can be configured in three (3) unique arrangements;

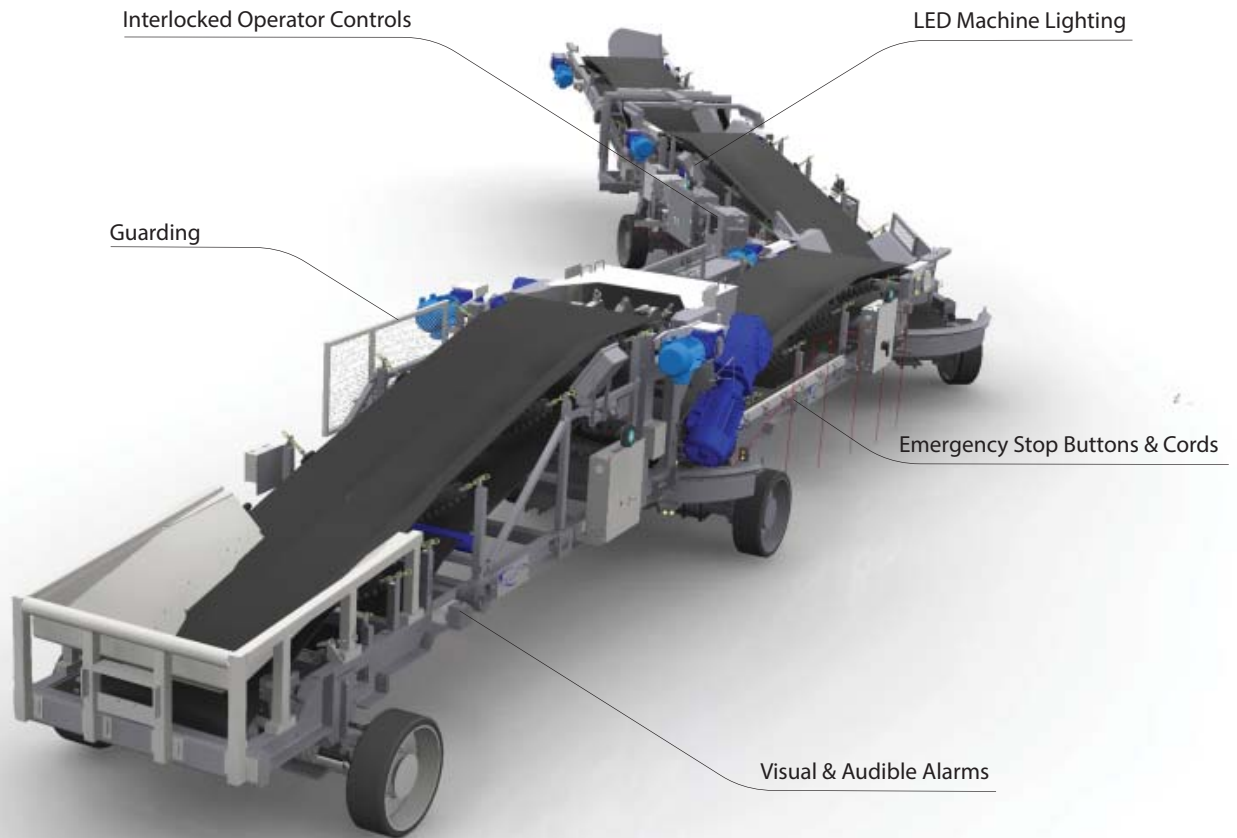
**A Standard Configuration**  
used where entry height and width are not limited

**B Low Profile Configuration**  
used when entry height is limited

**C Straddle Over Configuration**  
used where entry width and access are limiting factors

These three configurations allow our design engineers to customize the system, tailored to each specific application.

# Safety Features



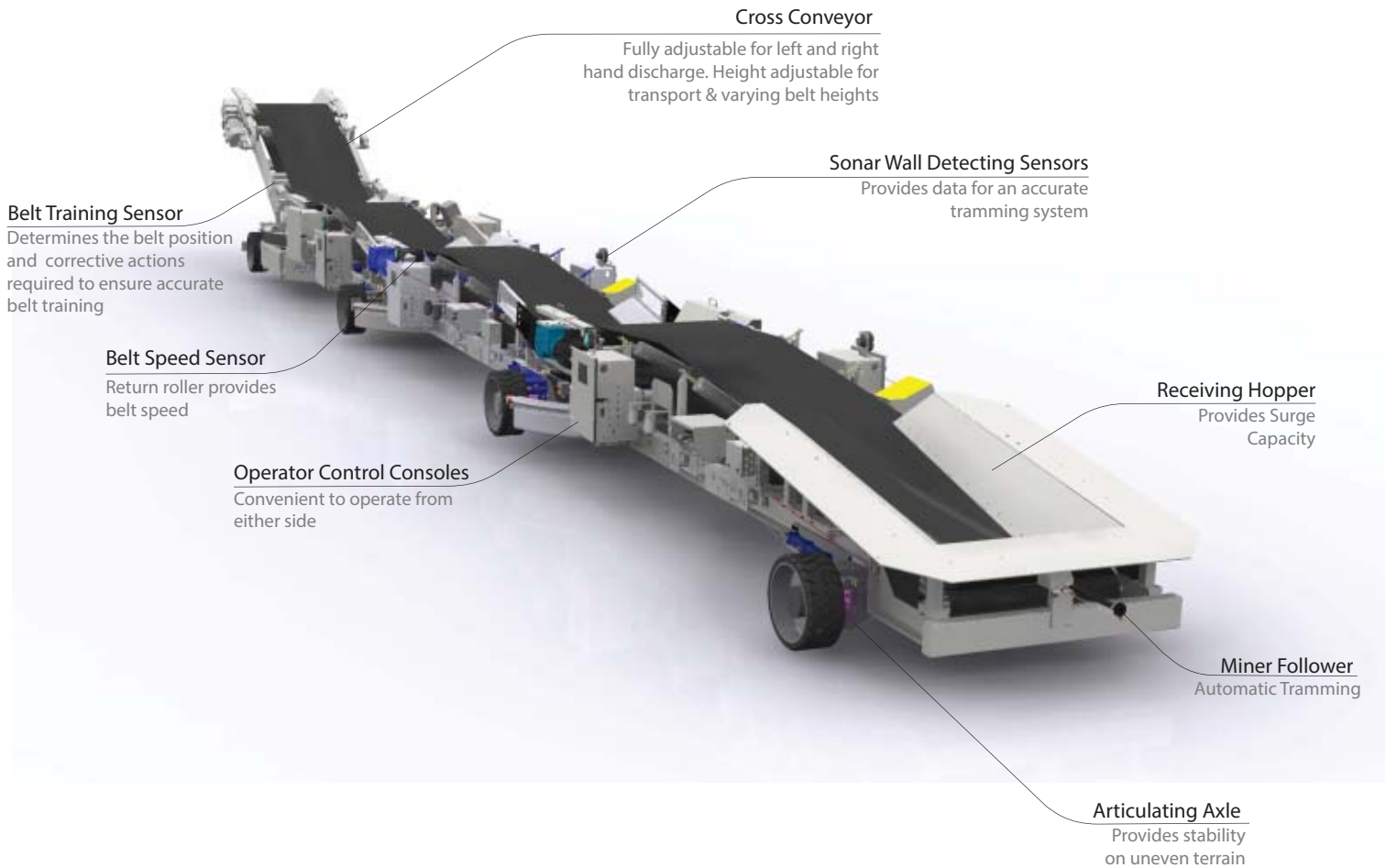
Standard Configuration Shown

## Safety Features

- Integrated Fire Suppression (optional)
- E-Stop Cable and Buttons (Both Sides)
- Fully Guarded Conveyors
- Radio Remote Control
- Interlocked Operator Controls
- Audible & Visual Alarms Prior to Any Startup or Movement

- Hydraulic Low Oil Level & High Oil Temperature Cut-outs
- Zero Belt Speed Shut Down
- Miner-follower For Automatic Forward Trimming
- Electric Motor Overload Protection
- Fail Safe Brake System
- Machine Lighting - Entire length of machine

# Product Specifications



Low Profile Configuration Shown

## Service / Maintenance Features

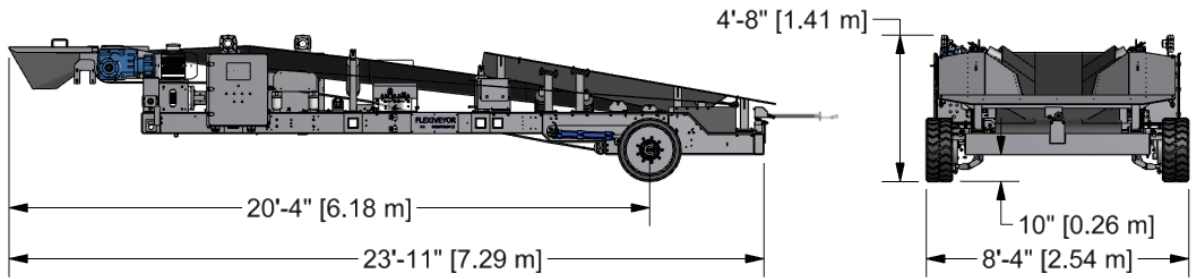
- PLC Touch Screen
- Easy Access Service Points
- Greasing manifolds for single side grease point access

## Operational Features

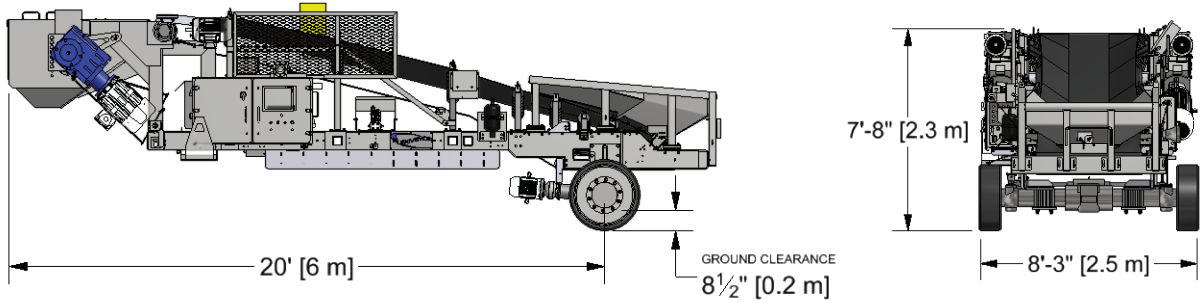
- Continuous Material Transfer
- Automated Belt Training
- Redundant Controls to Ensure Up-Time
- Left or Right Side Discharge
- Capacities up to 1200 ton/hr (Potash)

# Configurations

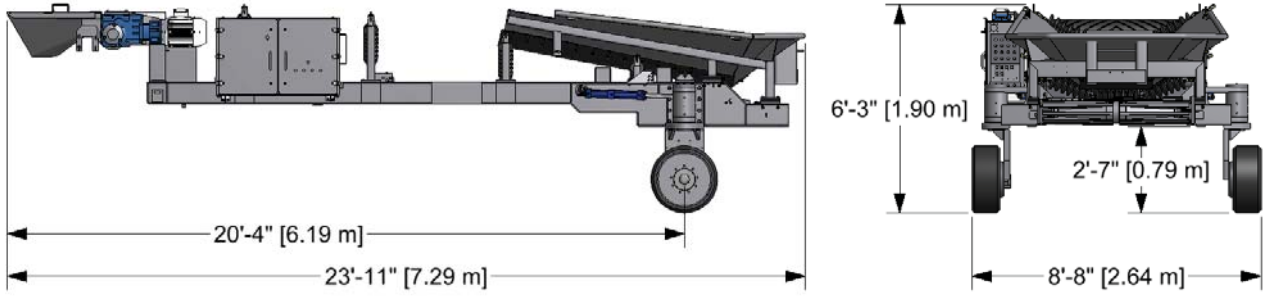
## LOW PROFILE



## STANDARD



## STRADDLE OVER



# Specifications

## Product Dimensions

	Low Profile	Standard	Straddle Over
Height	51.7in (1310mm)	85.6in (2170mm)	90.7in (2300mm)
Width	8.3ft (2.54m)	8.3ft (2.54m)	8.3ft (2.54m)
Length	460ft (140m) <sup>1</sup>	460ft (140m) <sup>1</sup>	460ft (140m) <sup>1</sup>
Ground Clearance	6-10in (150-250mm)	8in (200mm)	27in (690mm) <i>(adjustable)</i>

## Electrical System

	Low Profile	Standard	Straddle Over
System Voltage	600V / 1000V	600V / 1000V	600V / 1000V
PLC	Siemens	Siemens	Siemens
Interface	Touch Panel Operator Panel	Touch Panel Operator Panel	Touch Panel Operator Panel

## Conveyor System

	Low Profile	Standard	Straddle Over
Belt Width	48in (1200mm)	48in (1200mm)	48in (1200mm)
Total HP	320HP <sup>2</sup>	320HP <sup>2</sup>	320HP <sup>2</sup>
Throughput	up to 1200 ton/hr <sup>3</sup>	up to 1200 ton/hr <sup>3</sup>	up to 1200 ton/hr <sup>3</sup>

<sup>1</sup> Length shown is with 23-car installations

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<sup>2</sup> Total power is a function of total number of cars in the system

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<sup>3</sup> Based on density of Potash (133lb/ft<sup>3</sup>)

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**For more information contact your PM&P representative at 1.888.933.4812**

**ISO** | **9001:2008**  
CERTIFIED

**PMP**

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