

Rail Car Unloading Machine-RUMig3

Minimal Installation Depth

Save on construction costs — the RUMig3 requires only a 6-foot installation depth. No need to dig deeper than necessary.

High-Speed Unloading

Engineered for efficiency, the RUMig3 unloads coal (63 lbs per cubic foot) at up to 2,600 TPH. With variable speed control, you can fine-tune performance to match your project's exact requirements. Up to 12 inch minus material.

Proven Track Record

Trusted by Fortune 500 companies around the globe, the RUMig3 delivers consistent results. Many customers return to add more units — a testament to its reliability and performance.

Fast Turnaround

Unload 100 tons of material in just 5–6 minutes — keeping your operation on schedule and maximizing productivity.

Upgradable & Scalable

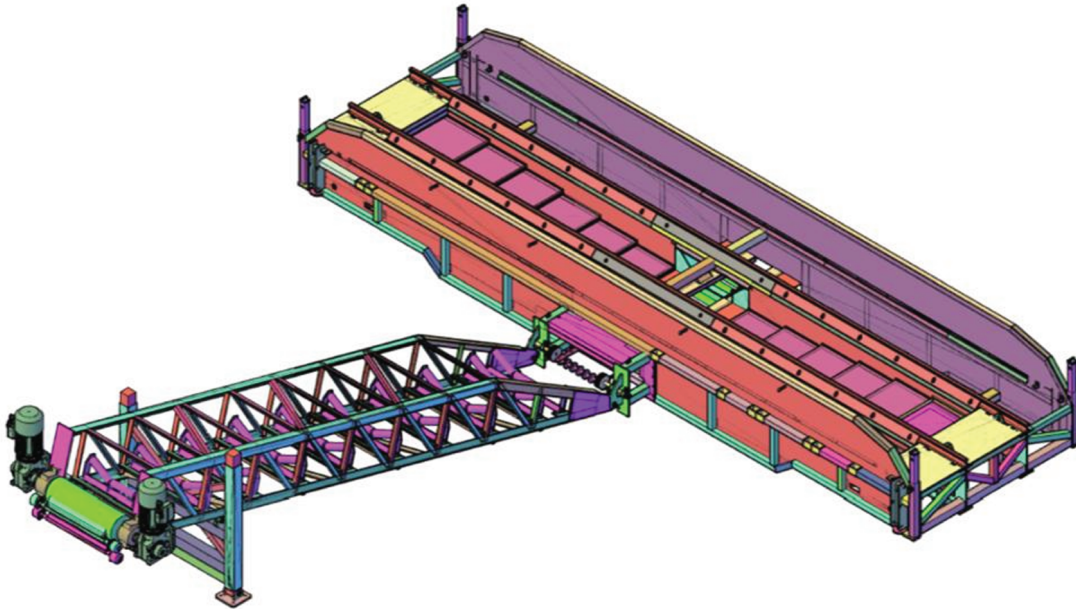
The standard RUMig3 features one 40-foot, 60-inch-wide main conveyor. For greater capacity, choose the RUMig3-2 (two conveyors) or RUMig3-4 (four conveyors). The system grows with your project needs.

Built for Demanding Jobs

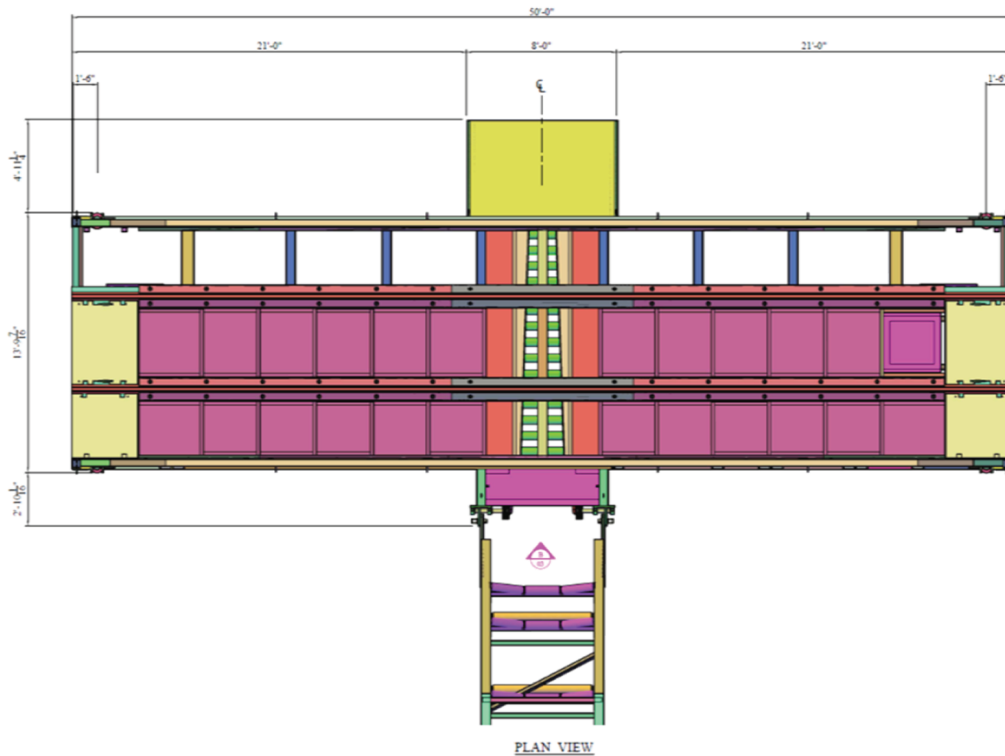
From start to finish, the RUMig3 is engineered to handle the toughest unloading tasks with speed, precision, and durability.



Ashross RUMig3 Drawings



3D View



Top View

Equipment Specifications

Gearbox & Parts

- Motors mounted on SEW Eurodrive gearboxes.
- Head pulleys: 19 in diameter (each).
- Tail pulley: 12 in diameter (adjustable).
- Belt adjusters located near the tail end of each conveyor.
- Four hydraulic jacks (24 in) for maintenance.
- One hydraulic power unit per machine with a 300-gallon hydraulic storage tank.
- One electric panel per machine.
- Each feed system uses ½ in AR plate.
- Rollers rated CEMA D.
- Uses Chevron Rando HD 32 hydraulic oil.

Dimensions

- Standard conveyor: 40 ft long, 60 in wide belt.
- Machine width: 13 ft 9¼ in.
- Overall length: 50 ft.
- Height: 4 ft below top of tie, 3 ft above top of tie.
- Tail pulley assembly width: 8 ft 6 in.
- From top of tie to bottom of I-beam: 36 in.

Electrical

- Oil cooler motor: 3 HP.
- Two head pulley motors (main conveyor): 75 HP each.
- Three hydraulic pump motors (Sauer Danfoss): 100 HP each.
- Requires 575–600 amps electrical service.
- Allen-Bradley PLC control system.
- Variable frequency drives for conveyor control.
- Optional Weight Shark 500 scale with PLC integration.

Features and Operation

- Sliding plate feed system (six per machine) moves material from the ends to the main discharge conveyor(s), powered by the hydraulic system.
- Optional walkways around the main operational section.
- Built-in walls to contain material during unloading.
- Engineered to handle all rail traffic (up to 420,000 lbs max).
- Three operation modes:
 - EC1 – Central Control (at hydraulic unit)
 - EC2 – Local Control (on the machine)
 - Remote Operation via Ethernet (optional)
- Main conveyor includes a protective cover.

Shipping and Weights

- Shipped on 2–3 trucks to installation site.
- Main section: 105,000 lbs.
- Each power unit: 14,200 lbs.
- Each exit assembly: 1,200 lbs.
- Each tail pulley assembly: 1,700 lbs.
- Each conveyor belt: 3,250 lbs.

Safety Features

- Guarding on all exposed gear shafts and motor shafts.
- Belt alignment switches.
- Zero-speed indicator.
- Hydraulic oil temperature sensor.
- Self-aligning pulleys.
- Emergency stops (E-stops) and pull cords.
- One ASGCO belt scraper included.