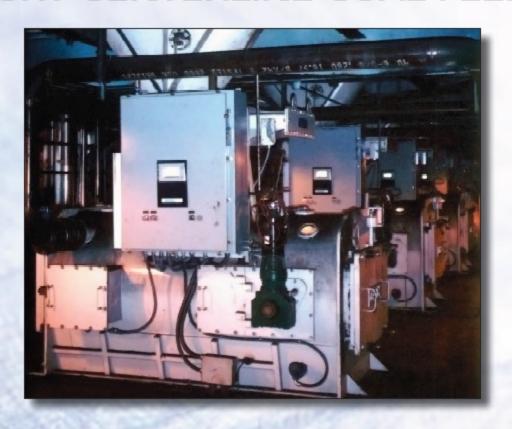
496SC COALOMETER® NFPA® GRAVIMERIK® SHORT CENTERLINE COAL FEEDER







10. DISCHARGE PLUGGAGE SWITCH

Indicates coal pluggage in the

discharge chute (not shown).

Identifies the presence or

absence of material on the

feeder belt.

A spiral wound

11. COAL-ON-BELT SWITCH

BELT TRACKING SWITCHES
 Located on either side of the belt,

these two-stage switches can first

indicate an alarm and then can take

additional action as programmed.

 LAGGED HEAD PULLEY Rubber coated head pulley is

14. SELF-CLEANING TAIL PULLEY

lagged and crowned to assure positive belt drive and tracking.

crowned tail pulley helps keep

Constructed of stainless steel, take-ups are totally enclosed

Located on either side of the head and

he head pulley a scraper is held positively

e belt by counterweights and scrapes the

the inside of the feeder belt

clean and helps maintain

positive belt tracking.

15. BELT TAKE-UPS

17. BELT SCRAPERS

v-guides is eliminated, allowing a more accurate

flat belt with a minimum one-inch curb (not shown).

1. PRESSURIZED SHELL DESIGN

Exceeds NFPA 85 design criteria. Every critical area is reinforced with ribs and gussets. No castings are used on any pressure boundary or in any pressure retaining component.

2. TOTALLY ENCLOSED FEEDER DRIVE

A non-ventilated, vertically mounted AC motor with a high efficiency off-the-shelf gear reducer is directly mounted to the drive shaft.

3. EXCLUSIVE QUICK-ACCESS END DOORS

Located at either end of the feeder, each heavy-duty door is supported by a single hung davit that allows it to be completely swung away from the opening in a minimum amount of space. Swing away toggle clamps provide fast positive sealing of each door.

4. DURABLE CONSTRUCTION

For maximum life and reduced maintenance, any surface that comes into contact with coal is constructed of stainless steel or rubber.

5. REMOVABLE ACCESS PANELS

Oversized panels are located at the head and tail pulleys and at the weighsuspension, providing easy access for maintenance and inspection.

6. OBSERVATION PORTS AND LIGHTING

Strategically located observation ports provide excellent unobstructed views of the inside of the feeder.

7. BELT SPEED ENCODER

Located on the tail pulley to measure true belt travel.

MOTOR SPEED ENCODER

Allows for comparing motor speed to belt speed for slippage or breakage detection (not shown).

8. STAINLESS STEEL WEIGH SUSPENSION

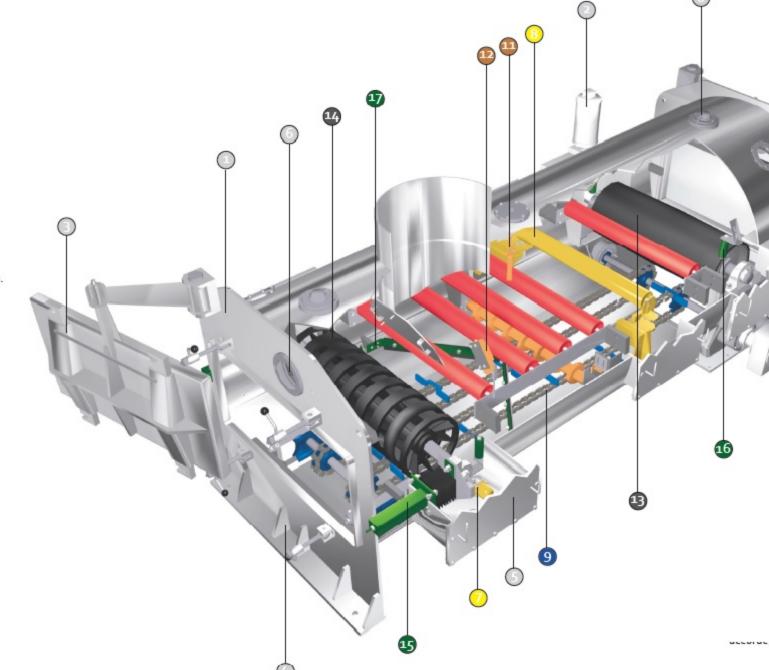
The MERRICK Coalometer utilizes dual hermetically sealed, stainless steel load cells. The weigh suspension is designed for easy removal and maintenance and is constructed entirely of stainless steel.

9. CLEAN-OUT CONVEYOR

A drag chain-type conveyor thoroughly sweeps the stainless steel floor of the feeder into the discharge chute to minimize coal and dust build-up. The conveyor is driven by an AC motor with an integral high efficiency off-the-shelf gear reducer.

INDEPENDENT DRAG CHAIN CONTROL

The integral clean-out conveyor (drag chain) can be controlled in one of two different modes: continuous or timed (not shown).



A TIME-TESTED DESIGN AND DISTINCTIVE FEATURES MAKE

MODEL 496SC THE CHOICE FOR THE FUTURE

COAL VALVES

Bunker Outlet
 Designed to cut through a standing column of material

Knife Gate
 Provide "off-on" control of the material of varying sizes

GENETIX® PROCESS CONTROLLER

Genetix® has the flexibility to accommodate both simple and complex system configurations. With Genetix® you can choose where to add intelligence to your process and the best method to seamlessly integrate the information into your plant control system. You can adapt Genetix® to your system and application needs.

MEDICAL DE PRINCIPAL DE PRINCIP

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BELT WIDTH	CAPACITY - see note 3 -	INLET SIZE INSIDE DIA. - see note 1, 2 -	INFEED TO DISCHARGE CENTERLINE DIM. - see note 1 -	APPROX. FEEDER WEIGHT
24"	100,000 lb/hr	18"	3′ 9″	?,000 lb
(609 mm)	(45,500 kg/hr)	(457 mm)	(1,143 mm)	(3,176 kg)
36"	200,000 lb/hr	24"	4' 0"	?,500 lb
(914 mm)	(91,000 kg/hr)	(610 mm)	(1,219 mm)	(3,403 kg)
48"	300,000 lb/hr	36"	4′ 6″	?,ooo lb
(1,219 mm)	(136,000 kg/hr)	(914 mm)	(1,371 mm)	(4,o83 kg)

- 1. Dimensions shown are standard. MERRICK also has manufactured many special NFPA feeders to specific dimensional requirements.
- 2. MERRICK also specializes in Slot Inlet Model 496 Feeders. History and experience has shown that difficult flowing coals can be best handled by use of a tapered slot infeed.
- 3. Feedrates shown are maximum for given feeder size and are based on coal at 50 lb/cu. ft. (801 kg/cu. m.). Feeder size should also be selected based on material size being fed. Consult MERRICK for more information.

FEEDER OPTIONS

- Stainless Steel Enclosure
- Stand Alone or Feeder-Mounted Control Cabinet
- Slot Infeed

ANCILLARY EQUIPMENT

COAL VALVES

Bunker Outlet Valves

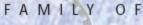
- Pressurized construction
- Stainless steel construction standard
- Double rack and pinion over gate drive (self cleaning)
- Electrically actuated, chain wheel, or handwheel operation
- Gate position indicators
- Gate removable without removing valve

Knife Gate Valves

- Designed for burner line applications (pneumatic actuator)
- Can be used for feeder discharge valve (electrically actuated, pneumatically actuated, chain wheel, or hand wheel operation)
- Dust-tight construction
- Gate position indicators

FEEDER DISCHARGE HOPPERS

- Reinforced construction, designed to NFPA 85
- Stainless steel construction standard
- Special, polished interior finish available
- Temperature probe available

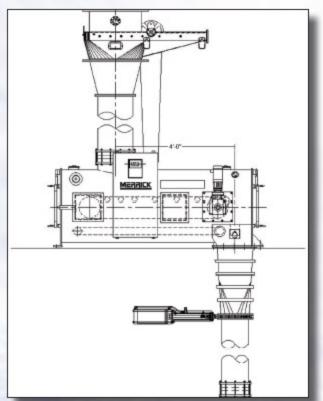




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WWW.MERRICK-INC.COM



COAL-IN-PIPE MONITORS

Acoustic

DOWNSPOUTS

- Stainless steel construction standard
- · Special, polished interior finish available

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