

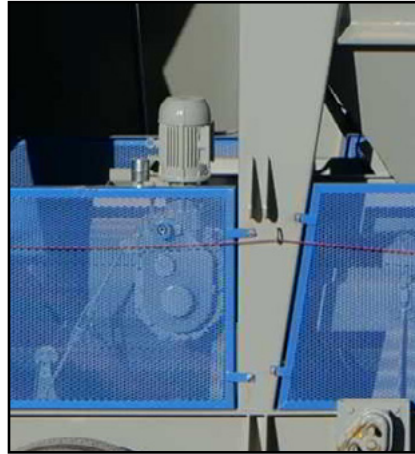
# G-SERIES

Asphalt Portable Plant



# COLD FEED SYSTEM

Gencor's portable cold feed systems are completely assembled with belting installed and factory adjusted. The bins are complete with a tandem axle portability package consisting of a gooseneck with fifth wheel plate, air lines, brake and turn signal lights, mud flaps, axles, hubs, air brakes, disc wheels and tubeless tires on drop center rims. The tandem axle suspension, structural steel supports and all necessary connections are included to accommodate a standard tandem axle tractor.



*Gencor's feeders are driven by a direct drive system which assures precise speed control at varying production rates using a standard motor coupled with Variable Frequency Drives. Standard features include tail shaft tachometer.*

*All Gencor feeders are equipped standard with an easily adjustable rack and pinion gate and dual no flow/low material switches to indicate material flow.*



## FEATURES

- Four or Five- 8' x 10' Bins
- Adjustable Bin Gate
- Fixed Bulkheads with Cover Plates
- Single Axle Portability Package
- Jackleg Assembly with Support pads for stability and load distribution
- Emergency Pull cords on both sides of the Collector
- Variable direct drive system
- One Bin Vibrator

# SCREENS & CONVEYORS

Gencor's aggregate screening systems are designed and built to withstand long hours of operation. Heavy-duty construction resists the effects of heavy screening loads and vibration.



*Gencor's heavy-duty conveyors provide superior support to typical channel frame conveyors. The added strength provides superior support against vibration and wind.*

*Gencor's Dual precision weigh bridge system is a gravity type belt tensioner with self-cleaning rolls for constant tensioning of the conveyor belt. The weigh bridge load cell incorporates a unique moisture resistant protective coating with balanced temperature compensation for accurate weighing of material.*



## SCALE CONVEYOR FEATURES

- 2-ply vulcanized rubber belting
- Lifetime lubricated idlers
- Rubber lagged head pulley
- Torque arm, shaft mounted reducer
- TEFC electric motor
- Telescopic leg support

## WEIGH BRIDGE FEATURES

- Gravity belt tensioner
- A test weight holder and two 30 lbs. or two 50 lbs. test weights based on width of conveyor
- Heavy-duty wind screen for accurate weighing

## SCREEN DECK FEATURES

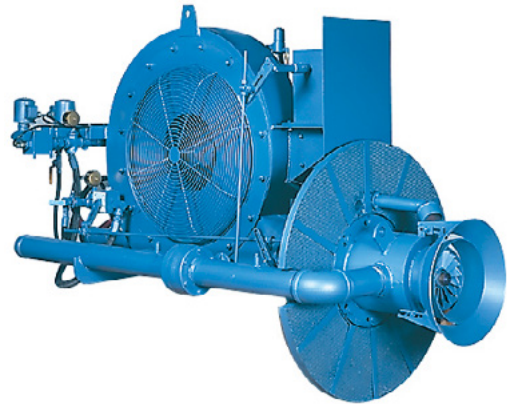
- H beam design with double spring heavy duty pivoted motor base
- TEFC electric motor
- V belt, motor sheave and belt guard
- Oil bath with internal and external labyrinth seals
- Coil spring tension assembly and tension plates.
- Reject pan at the rear of the screen deck



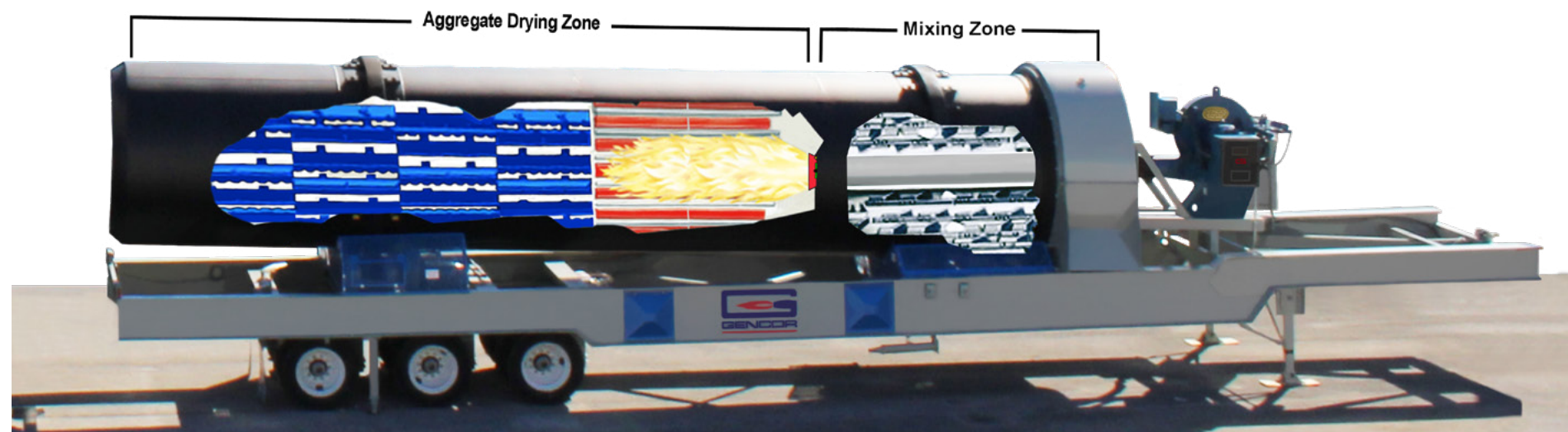
# G-SERIES DRUM

The heart of the G-Series® Plant is built around the unique patented counterflow Ultradrum® technology. The innovative Ultradrum® has been proven in 100's of applications around the globe for producing high quality hot mix without degradation, cleanly and efficiently. The G-Series Drum is available in 150, 200 U.S. Tons per hour of hot mix asphalt.

The Genco **Astraflame® burner** has a proven performance record in rotary dryer applications. The Astraflame burner achieves complete, efficient combustion without the use of refractory heads or combustion chambers. As a result, more of the BTU heating value of the available fuel is applied directly to the drying process without unnecessary heat loss making it one of the most efficient burner applied to rotary aggregate drivers.



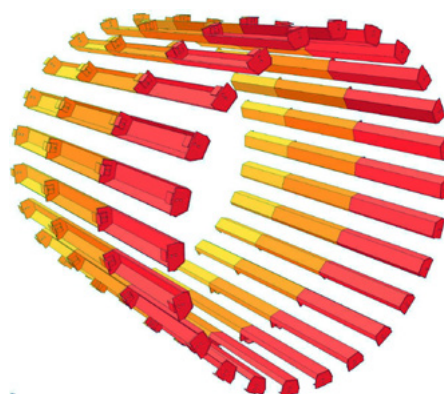
All Gencor **Ultradrum's** have oversized drum diameters, in fact the largest in the industry, which provides lower exhaust gas velocities reducing dust carryout and wear on the drum, ductwork and the entire plant exhaust system.



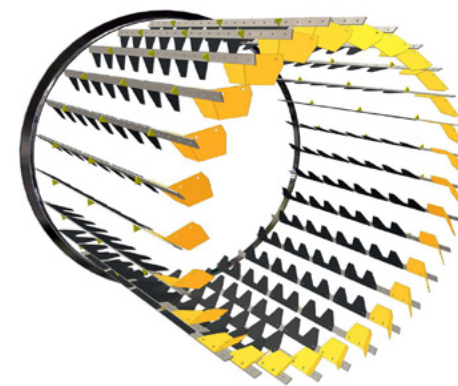
The mixing section is located behind the burner so there is no chance of liquid asphalt coming in contact with the burner flame. This means there is no oxidation of the asphalt, no degradation of the mix and no asphalt vapors entering the exhaust gas stream.



Gencor's **patented combustion T-flights** reduce energy costs by allowing conductive and convective heat transfer to the aggregates while creating an isolated combustion zone free from flame impingement.



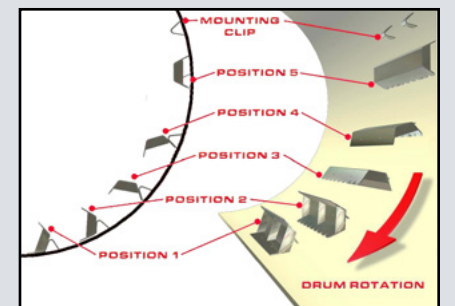
Gencor's **mixing zone** provides for both dry and wet mixing of the materials. The patented flights pull through the mix for thorough homogeneous coating of the aggregates. The kneading action reduces energy demand on the drum drive system and once coated with material virtually eliminates wear associated with typical mixing paddles.



The Gencor **discharge wheel** is made of abrasion resistant steel paddles that are adjustable and replaceable. The wheel design reduces energy demand on the drum drive system and eliminates segregation of the mix.



Gencor's patented **Converta-flight™** is a 5-way adjustable veiling flight that provides easy adjustment of material veil in the drying section for highly efficient energy utilization and precise control over exhaust gas temperatures especially with RAP, RAS, and Warm mixes. Flight position 5 protects the drum shell against friction and wear totally eliminating the need to remove the flights from the drum.



The Ultradrum flight design concept provides for the highest efficiency heat exchange between the aggregates and the combustion system making it the most efficient drum mixer in the industry. Each flight section is designed for maximum wear life, low maintenance and results in even drum loading. From the inlet sweeps to the discharge paddles, the low energy gravity movement of the material minimizes dust generation and virtually eliminates segregation through the process. The Ultradrum concept provides thorough drying of the aggregates and allows dry mixing of recycle, fines and aggregates prior to the point of asphalt injection.

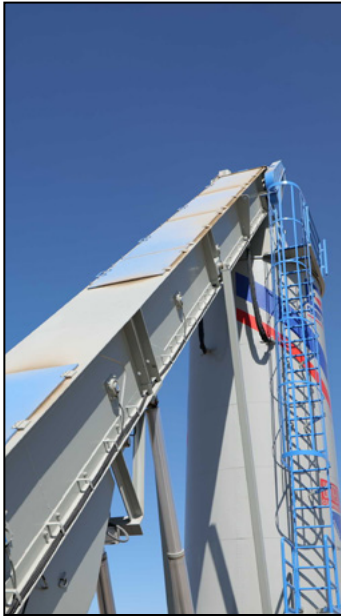
# SELF-ERECT SILOS

The Gencor single piece self-erect silo is the industry’s fastest self-erecting silo and a true engineering marvel. It is not a square surge hopper as others offered by competition and has all the features of a full silo.

## SELF-ERECTING ONE PIECE SILO

Gencor’s One-Piece SE Silo is the most highly portable Surge system in the world. Available in 50 and 75 ton capacities, it self-erects in as little as ten minutes without a crane. So simple, yet rugged enough in design to be moved into position after being fully erected.

*Innovative design and quality construction make Gencor’s SE silo the best in the industry. A continuous weld body provides enormous strength and maximum structural integrity to withstand frequent transport, dismantle and setup.*



There are two independently driven, remotely controlled clam style main gates.

# ULTRAFLO BAGHOUSE

The Ultraflo® Baghouse Filtration System is the ultimate alternative to pulse jet baghouses. Developed primarily to increase efficiency, reduce maintenance and reduce size and weight, the Ultraflo Baghouse cleaning system from Gencor provides many advantages to typical pulse-jet baghouses.

The most obvious feature is the compact, yet rugged modular design of the Ultraflo®, which allows greater cleaning efficiency with reduced size and weight for ease of transport and setup. The Ultraflo is provided standard, with full sidewall and top section insulation to maintain a consistent baghouse temperature avoiding condensation dew point levels while increasing the efficiency of the filtration system.

The result is a compact baghouse design which provides more filter area in a much smaller structure along with fewer moving parts and much lower maintenance and operating costs compared with conventional pulse-jet baghouses.

The Portable Baghouse design completely eliminates the need for a crane during erection and includes a full portability tow package. A standard built-in primary collection unit is provided on all portable units with separate ports for independent metering of return fines to accommodate any state requirements.

## PORTABILITY FEATURES

- Crank-down landing pads
- Quick-disconnect plug wiring
- Fifth wheel pin
- Bags and cages installed at factory
- Insulated top and sidewalls

## OPTIONAL

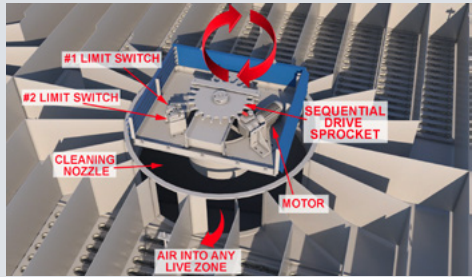
- Folding Stack (in some sizes)
- VFD exhaust fan drive



Craneless Ductwork with Built-in Primary Collector

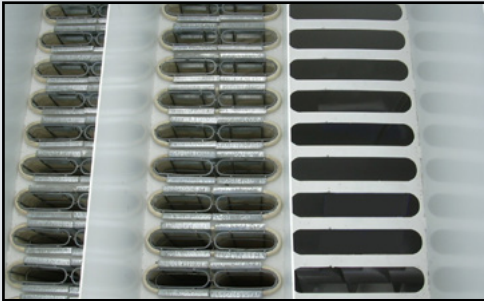


Elliptical Bags



## ADVANTAGES

- Smooth cleaning with reduced wear on the bags
- Fewer moving mechanical parts
- No air compressor or solenoid valves
- Smaller compact design; less weight for easy transport
- Elliptical bag and cage design
- More cloth area in a reduced size structure
- High efficiency radial vortex exhaust damper
- Fully insulated for high efficiency
- Corrosion resistant steel construction



# CONTROL CENTER

## PLANT CONTROL SYSTEM

The Plant Control System is a totally integrated system that monitors all plant control functions. An advanced AB CompactLogix PLC, through Ethernet motor controls the plant operation and performs all necessary timing and calculations for the Blending Process. The Microsoft Windows based PC functions as a user interface and report generator. A backup computer and redundant hard drive assure the operator of complete security of the data and operating system in the event of a failure of the PC or the PLC.



## GEN V BURNER CONTROL

The Burner Control is a fully Automatic Digital Control System designed to control the Start-up Sequence, Firing Rate and Safe Operation of Industrial Burners and to control the Plant Draft. To meet today's ever changing energy supply and fuel cost, the Burner Control can operate on a single fuel or by a combination of fuels. In Single Fuel Mode, the Burner Control operates on Oil (No. 2 or waste oil), Gas or Liquid Propane. In Dual Fuel Mode, it can operate by combining Gas and Oil or Liquid Propane.

## SL-400 SILO LOADOUT SYSTEM (OPTIONAL)

The silo loadout system is PC based using a high-speed computer with large capacity drive, movable keyboard, mouse, 19 in. high-resolution color monitor and a printer. A high-speed load cell digitizer is included to interface with the scale and to provide a redundant display of the scale weight. An emergency silo gate is provided as an additional safety feature.



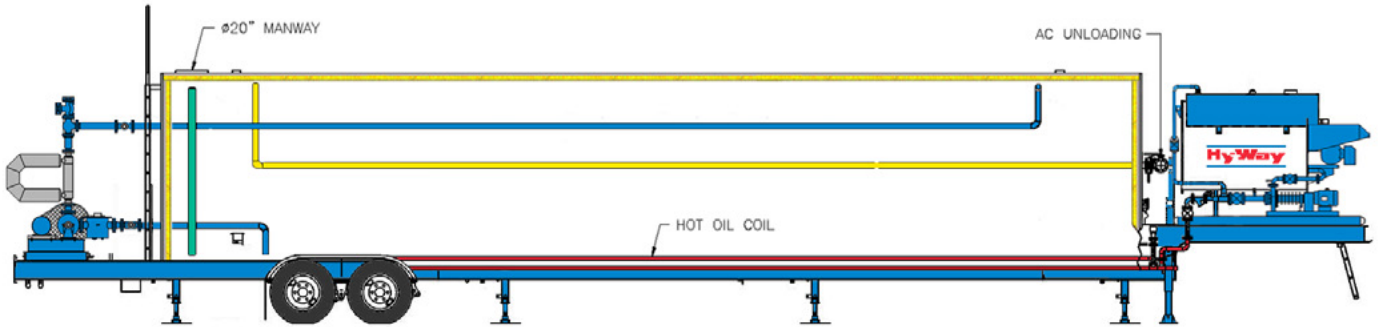
## PORTABLE OPERATOR'S CONTROL CENTER

### FEATURES

- 8 ft. wide x 10 ft. long, structural steel and wood design.
- LED fixtures
- Four- 110 Volt Electrical Receptacles
- 7,500 BTU air conditioner with electric heat and wireless remote
- Conveniently placed trays
- Bracket to hold monitors to provide more desk area
- Two-Side-sliding windows
- Gray Tinted Windows for Energy Efficiency
- All motor starters located on the equipment with Ethernet connections to all motor starter enclosures
- Remote I/O on the virgin aggregate and RAP feed systems with local I/O for the other pieces of equipment
- Main plant disconnect located on the rotary dryer frame
- Two junction boxes located outside the front of the control center to allow easy access to land and run wires from internal trays to rest of the plant
- Dependent upon anticipated operating location and customer specification, the plant power supply is 60 Hz and either 480V or 575V.
- Equipped with a 2-5/16 in. adjustable ball coupler, a set of tandem axles and electric brakes for safe towing. Included are three pipe mount jacks for stability during operation.

# ASPHALT STORAGE TANKS

Hy-Way® portable asphalt and polymer tanks are the most energy-efficient tanks available for today's liquid storage requirements. All Hy-Way™ coil tanks are constructed with the highest quality materials and construction for durability and maximum heat retention. Hy-Way® portable tanks are available in capacities from 1,000 to 30,000 gallons and in a variety of configurations to accommodate any plant site.



## GENCOR'S THERMAL FLUID HEATERS

The helical coil thermal fluid heater is rated at 1.0 million BTU/hr. input for operation with a No. 2 oil/natural gas\* fired fully automatic forced draft burner. The Hy-Way unit with its high degree of efficiency and resulting low stack temperature is designed and built to overcome both high maintenance cost and energy loss associated with conventional heaters. The heater is mounted on a channel frame structural steel skidded base complete with lifting lugs. Units operating in plants have proven to sustain initial efficiency and maintain operational dependability.

## PORTABLE TANKS

Hy-Way® Portable storage tanks feature a high-efficiency, close-wound, serpentine coil for increased oil circulation and better heat transfer. A quarter-inch butt-welded steel plate forms the rugged shell construction of the tank with four inches of fiberglass insulation to reduce conductive heat loss. A series of integral saddles mounted on heavy twin I-beams form the support frame which is easily set to grade with the swing-down landing jacks. An all-weather, durable, scratch resistant, aluminum skin provides years of protection.



# RECYCLE SYSTEMS

Gencor® Recycle systems incorporate the heaviest construction in the industry with innovative design features that accommodate any plant configuration and unlimited process versatility to feed, crush, break, and screen virtually any type of recycled asphalt pavement.

All Gencor Recycle feed bins are designed to eliminate material bridging, with steep sided 1/4" tapered walls, self-relieving throat and welded beater plates on the sides of the bins. With the rack and pinion gate design, material height can be easily adjusted to suit any feed rate. Dependable variable speed direct drives assure steady consistent flow at varying production rates.



## STANDARD FEATURES

- One - 7' x 11' bin, 36" feeder, or Two - 8' x 14' bin
- Adjustable Bin Gate
- One - Bin Vibrator
- Fixed Bulkheads with Cover Plates
- Jackleg Assembly with Support Pads
- Single Axle Portability Package
- Variable speed direct drive system
- Emergency Pull Cords on both sides
- Single deck Vibrating screen
- Weigh Bridge
- Gravity Take-up
- 2-ply vulcanized belting



# MINERAL ADDITIVE SILOS

Gencor offers highly portable Self-erecting Mineral Silos that erect in minutes. Each additive system is sized per application to assure optimum mix design quality and to meet the tightest State and DOT specifications. SE Mineral Silos are available in 300 to 700 BBL capacity to addition of fly ash, lime, or other mineral additives to the asphalt product.



## STANDARD FEATURES

- Hydraulic lift system - erects in minutes
- Three-point load cell suspension
- Quick-Disconnect plug wiring
- Two-speed landing gear
- Fifth wheel pin
- Hydraulic leveling outriggers
- 1/4" steel construction
- Airlock and baghouse filler (optional)



Rotary Airlock





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