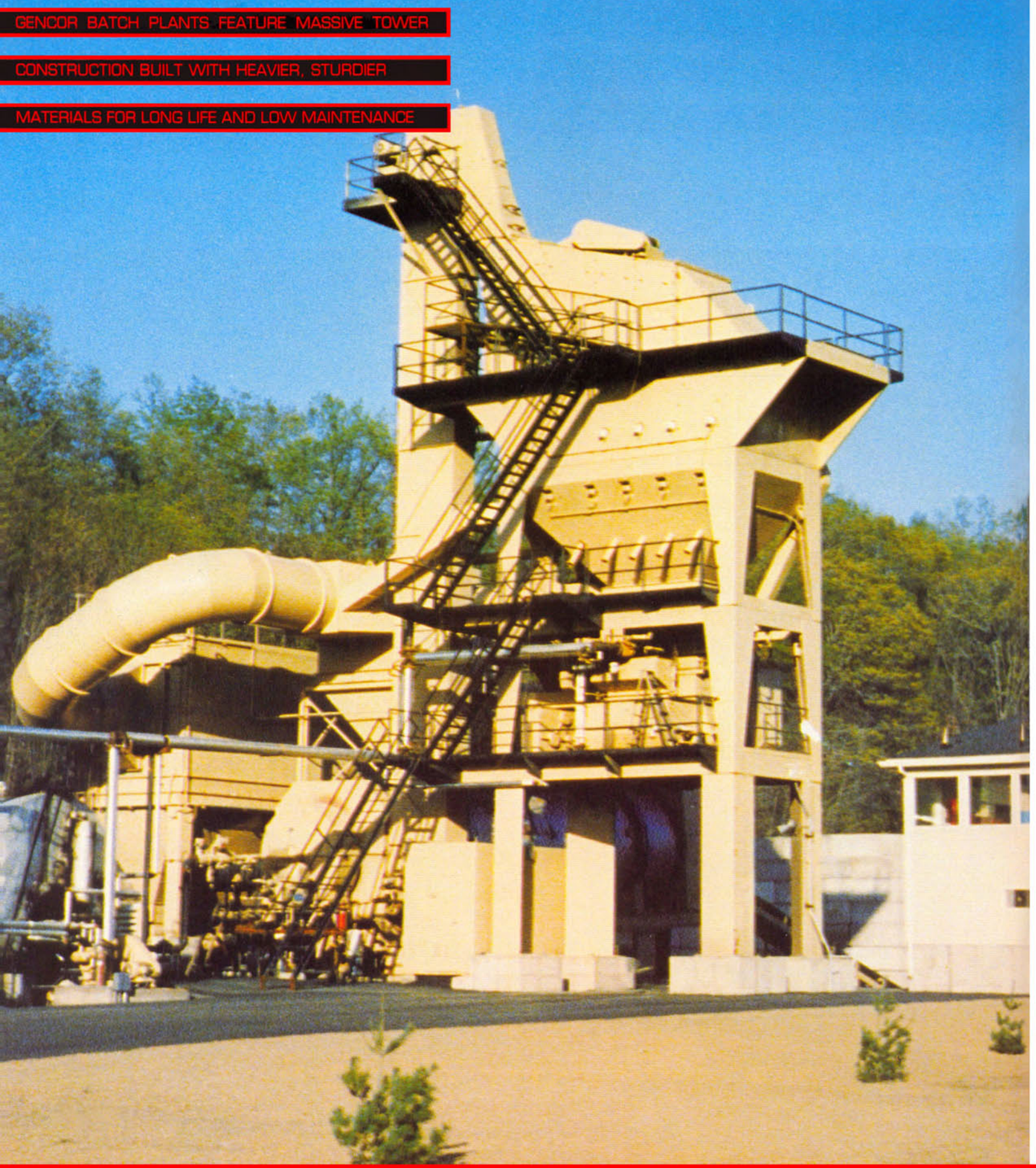
ASPHALT BATCH PLANTS

H&B

GENCOR
INDUSTRIES INC.



GENCOR BATCH PLANTS FEATURE MASSIVE TOWER CONSTRUCTION BUILT WITH HEAVIER, STURDIER MATERIALS FOR LONG LIFE AND LOW MAINTENANCE

ASPHALT BATCH PLANTS FROM GENCOR

When Hetherington and Berner (H&B) built its first asphalt plant in 1894, a tradition of excellence began that has yet to be surpassed in the industry. The company has remained the leader ever since, and as a result, there are more H&B batch asphalt plants in operation in the United States than any other kind.

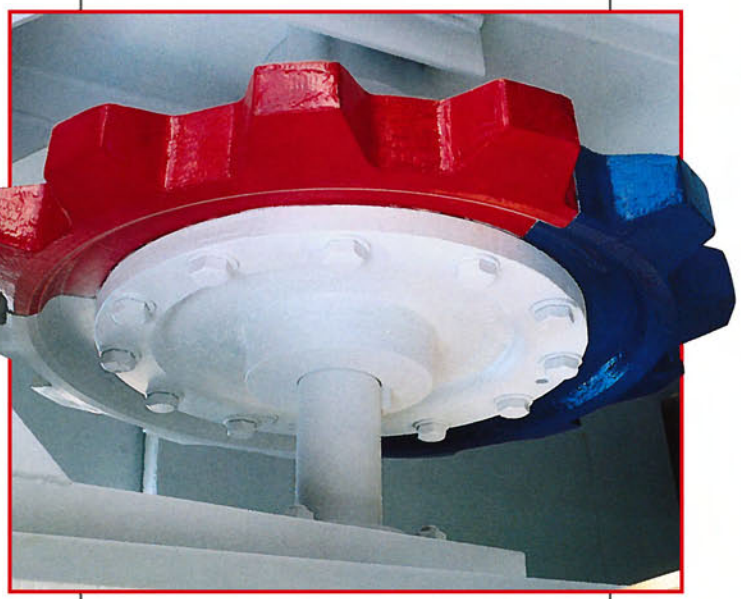
H&B is an integral part of Gencor Industries and the Gencor philosophy of "One company • One source • One solution." Combining superior engineering, durable construction, high-tech control design, customer-specific flexibility and incomparable service, Gencor provides a complete range of cost-effective hot mix plants throughout the world.

When your bottom line depends on the quality and durability of your equipment, look to the industry's top innovator - Gencor.

GENCOR INDUSTRIES INC.

H&B

THE GENCOR ADVANTAGE



The Gencor batch plant offers advantages unavailable in competitors' products. Benefits include massive tower construction built with heavier, sturdier materials for long life and low maintenance. Modular tower sections supported by massive legs are constructed of heavy plate. In fact, our plants are usually 20 percent heavier than competitive plants.

GENCOR INDUSTRIES INC.

H&B

Additional features include oversized access/inspection doors; oversized walkways amd stairways to the top of the plant; toe kickplates and handrails for safe access for maintenance.

In addition to innovative pneumatic and electrical features and designs, the Gencor batch plant is equipped with the heaviest mixer gear reducer in the industry. The plant is the only one offering as standard a separate exhaust system to purge the mixer and tower -- a real plus in these environmentally sensitive times.

MODEL	MIXER	TPH *
RA-40	4000#	160
RA-50	5000#	200
RA-60	6000#	240
RA-80	8000#	320
1560	10000#	400
1770	12000#	480
2300	15000#	600

* Based on aggregate moisture of 5% at 45 second batch cycles

Gencor's team of engineering, control and manufacturing experts have incorporated innovative technical advances into each component.

There are numerous advantages in specifying a Gencor batch plant. Every detail is carefully designed to boost your profitability over both the short and long term. Our plants are ready to tackle your workload, no matter how demanding.

GENCOR INDUSTRIES INC.

H&B

Cold Feed Bins

- Adjustable rack & pinion gates allow for easy adjustment of material height
- Remote control variable speed belt feeder with high-torque motor gives better control & longer life
- Self relieving discharge design for even flow
- Reinforced top lip for added strength
- Clear access for easier housekeeping around belts

Dryer

- Four independent trunnion friction drives create 100% contact between trunnion & tire, limiting slippage while providing even torque distribution
- Combustion T-flights engineered to match dryer & burner for maximum combustion efficiency & heat transfer
- Forged, precision-machined and heat-treated alloy steel tires
- High strength steel shell made from abrasion-resistant INX 50
- Modern veiling flighting for low stack temperatures regardless of operating conditions
- Effective drum seals minimize air leakage in exhaust system
- Genco Ultraflame burner affords clean efficient combustion & high productivity

Hot Elevator

- Internal gravity take-up provides constant chain tension without springs
- Take-up assembly features Ni-hard bearings for longer life
- Segmental sprocket allows for easy replacement without removing the chain
- Shaft mounted reducer & V-belt drive for easy belt replacement
- Split pillowblock spherical bearings on head shaft for extended service
- Steel, solid-welded 5/16" fabricated buckets result in longer life
- Unique "dutch" doors on both sides for easy access & maintenance

Screen

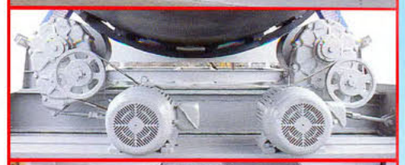
- Deister incline screens provided as standard
- Rollout or pivoting nose sections provide easy access to discharge chutes & screen cloths
- Increased screening area for greater efficiency & higher production

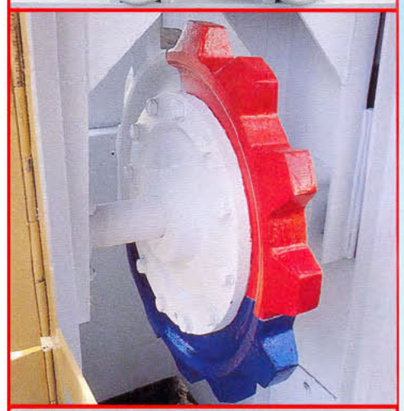
Hot Bin

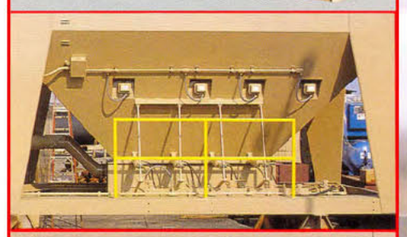
- Replaceable liners installed on all wear surfaces
- Rugged external gate lever system operates free of dust & heat
- Level indicators provide accurate readings in each bin
- Built-in overflow chutes with holding bin equipped with level indicators
- Sampling tray provided

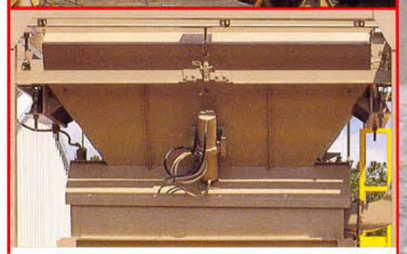
Weigh Box

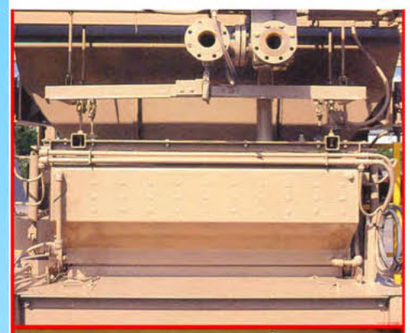
- Trunnion-mounted air cylinder with Viton seals to withstand high temperatures
- Limit switch prevents double batching & indicates gate position
- Scale level arms with load cells provide accurate & instantaneous readings

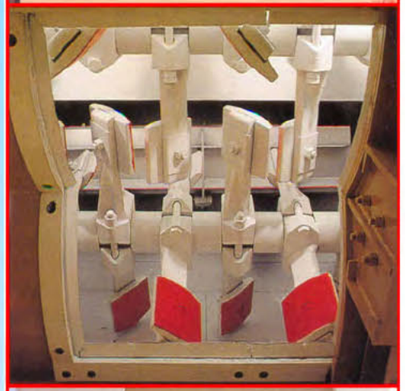












A.C. Bucket

- Unique rotational discharge of A.C.valve allows rapid, even distribution of A.C. into pugmill mixer
- Large jacketed area maintains proper asphalt temperature at all times
- Valve shoes feature spring-loaded seals, machined & fitted for a positive seal to discharge valve
- Safety overflow switch interlocked to A.C. pump preventing overflow
- Jacketed, three-way valve for maximum heat retention
- Load cells provide continuous, accurate readings

Pugmill Mixer

- Mixer shell is hot-oil jacketed for heat retention
- Tempered & quenched alloy steel shafts
- Heat-treated and Magnafluxed alloy steel mixer arms
- Double output gear reducers from gear box for balanced torque
- Rugged double output speed reducer designed & tested for trouble-free performance
- Adjustable Ni-hard mixing tips for extended wear
- Split pillowbox spherical bearing for longer life & easier maintenance
- Replaceable Ni-hard liners on all heavy wear surfaces
- Ni-hard-lined mixer gates with adjustable rails for positive seal
- Large diameter gate rollers for prolonged wear
- Interlock limit switch ensures foolproof gate position
- Synchronized, meshed mixer arms for thorough, high efficiency mixing

Fugitive Dust System

- Independent dust handling fan driven by TEFC motor provides positive fines collection without dependance on baghouse exhaust fan
- Engineered to collect dust from all critical areas of the plant
- Venting provided for screen, hot elevator, hot bin, weigh box & mixer
- Dust returned to either primary collector or baghouse
- Individually valved collection points for properly balanced system

Preferred Options

- Dust return systems can be engineered to meet any customer or state requirement
- Screen bypass to transport material directly from the hot elevator to the #1 bin
- Walkway to hot elevator from screen deck
- Stairway access to tower
- Hot bin insulation for maximum energy efficiency and longer bin storage
- Automatic remote control bin sampler
- "Super" tips in mixer for greater wear resistance
- Blue smoke and/or dust scavenger system
- Retractable flop chutes

Materials and specifications subject to change without notice.

GENCOR CONTROLS & CONTROL HOUSE

The Gencor control house provides a professional and comfortable work environment for plant operators.

The heart of Gencor's batch plant is the state-of-the-art, self-contained Gencor BP-100 batching computer system providing the optimum in efficiency and cost effectiveness.

Combine that with the Gencontrol burner control and your batch plant can reach new levels of productivity and profitability.

Control House Benefits

- Heavy insulation & temperature control system
- Split-level design with 360° view of site
- Brightly lit work area
- Centrally located bus system for easy maintenance
- Integrated wire & power cables for maximum space

- Conveniently located, highly accurate & dependable ammeters

BP-100 Benefits

- User-friendly software with built-in "help" key
- High-speed software updates 22 times per second
- Self-contained, slide-tray mounted hardware for easy access

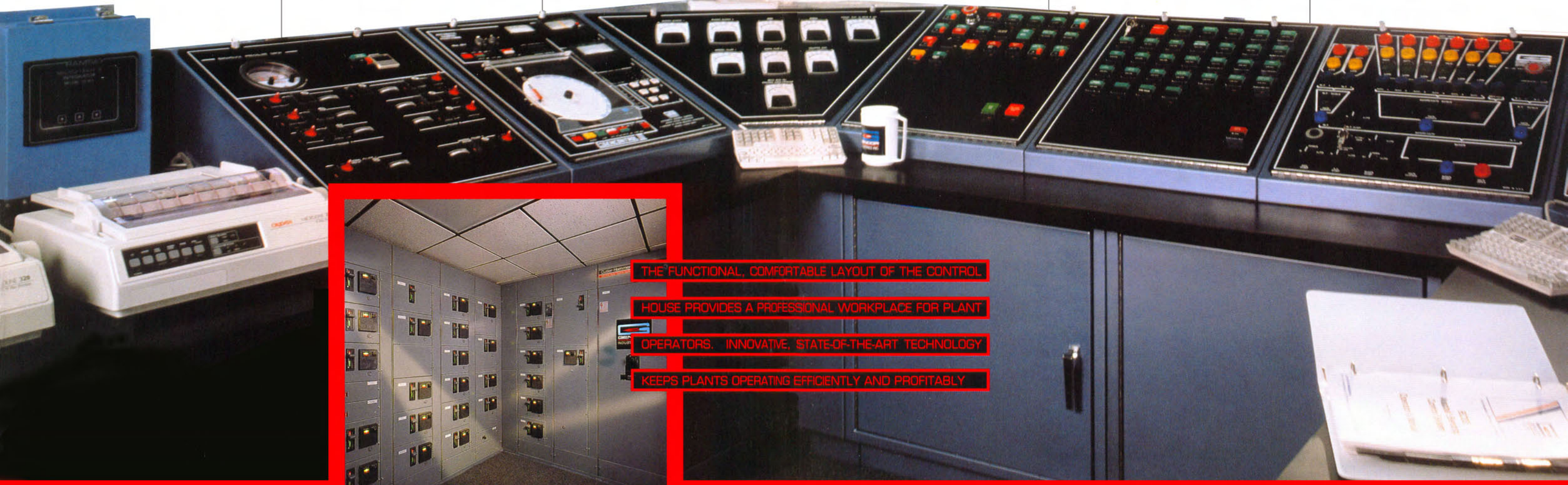
- VME computer system & printer
- High resolution color CRT monitors
- Organized & complete data management displays & printouts
- Weigh scale displays include aggregate, asphalt cement additive & mineral filler
- Batch displays include batch mode, formulas, calibration, ticket design, customer & job data

- Individually mounted starters
- All hardware isolated to prevent electrical surging or spiking
- Stores up to 250 mix formulas, entered or altered during operation
- Processes mix formulas in pounds, kilograms or percentages

Gencontrol Burner Control Advantages

- Solid state construction

- Built-in safety features
- System status annunciator & auto-tracking
- Instantaneous control of burner flame
- Automatically adjusts fuel to maintain uniform material temperature
- Safety interlocks for all critical burner operations
- Pyrograph chart recorder for accurate recording of temperatures



THE FUNCTIONAL, COMFORTABLE LAYOUT OF THE CONTROL HOUSE PROVIDES A PROFESSIONAL WORKPLACE FOR PLANT OPERATORS. INNOVATIVE, STATE-OF-THE-ART TECHNOLOGY KEEPS PLANTS OPERATING EFFICIENTLY AND PROFITABLY

THE GENCOR BAGHOUSE IS BUILT FOR LONG LIFE

AND DESIGNED FOR MAXIMUM CLEANING EFFICIENCY

THE BAGHOUSE

The Gencor baghouse is the heaviest built in the industry, designed to provide the largest volume for a given airflow, maximizing the flow and filtration with low maintenance.

All baghouse sections, legs and ducts are constructed of heavy steel plate. Detectors monitor incoming temperatures, protecting the bags.

The Gencor baghouse can be supplied with either a built-in or separate primary collector installed over the dryer.

Bags are cleaned easily through the pulse jet method with high-capacity, center-mounted double diaphragm solenoids. The result is even pulse pressure to each row of bags for maximum cleaning efficiency.

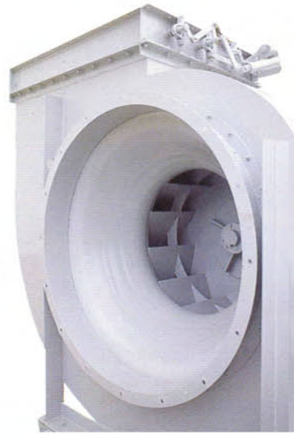
The large rectangular manifold running the length of the house serves as a compressed air reservoir. This unique design results in sharp, crisp bag expansion that quickly breaks accumulated dust from the sides of the bags.

The system is engineered to maintain necessary exhaust flow through the plant in normal operation preventing overdrafting.

The Gencor baghouse uses innovative technology to help achieve a simple goal — a cleaner, safer environment.

Just compare these features:

- Internal exhaust duct work for unitized construction
- High capacity, fast-acting double diaphragm solenoid valves
- 1/4" steel construction
- Tongue-flange guides for easy assembly
- 100% 14-oz. virgin NOMEX bags
- Exclusive wedge-type top & encapsulated gasket system for easy-open, tight-seal doors
- High efficiency backward sloped exhaust fan wheel rated at 14" static pressure
- Heavy duty rotary screw-type compressor
- Generous bag spacing for low gas velocity & thorough cleaning
- Two temperature sensors for safe operation
- Easy start exhaust fan



GENCOR
INDUSTRIES INC.

H&B

RECYCLING

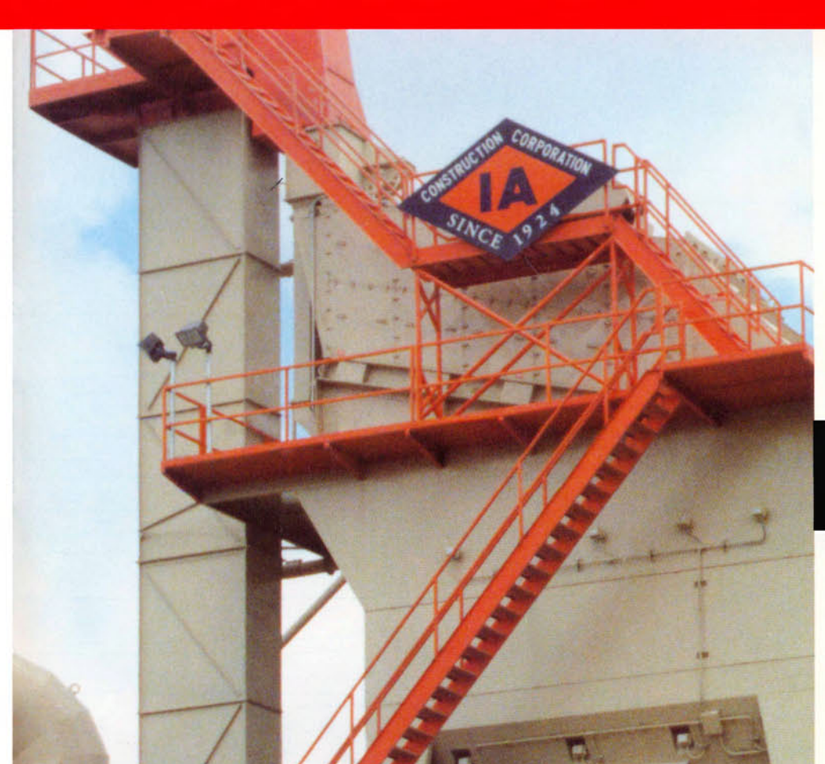
Introducing recycled asphalt to a batch plant process has always presented a unique challenge. But plant operators recognize that new concerns about the environment have placed even more emphasis on meeting this challenge.

To be successful in today's competitive asphalt market, plant operators must have the capability to run recycled asphalt.

That's where Gencor's top team of engineers come in. Our staff has decades of experience in designing recycle systems for both batch and drum mix plants. We are leading the way with new technology to meet strict environmental standards, while making recycle an efficient and cost-effective addition in your asphalt.

Gencor can provide you with a complete array of recycle systems to meet your needs now and well into the future.

- Custom designed & engineered for the future
- RAP breakers
- RAP bins
- RAP conveyors
- RAP systems



READY FOR RETROFIT.

When you are ready to update your existing plant, Gencor can provide any of the top-of-the-line components you need.

Whether you need a new dryer or a complete dust collection system, our staff of trained professionals will work with you to meet the most stringent specifications.

No other plant manufacturer can offer what Gencor does — technical superiority, unmatched quality and over a century of experience in building the best asphalt equipment in the world.

BATCH PLANTS

DRUM MIX PLANTS

CONTROL SYSTEMS

ASPHALT HEATERS

ASPHALT STORAGE TANKS

HOT MIX SILOS

COMBUSTION BURNERS

COLD FEED BINS

RAP SYSTEMS

SOIL REMEDIATION UNITS

INDUSTRIES INC.

ONE COMPANY • ONE SOURCE • ONE SOLUTION

GENCOR INDUSTRIES INC., 5201 NORTH ORANGE BLOSSOM TRAIL, ORLANDO, FLORIDA 32810

(407) 290-6000 • FAX (407) 578-0577