

SYSTEMS IN



SANITATION

The Sweeper that revolutionized an industry



ELGIN PELICAN®

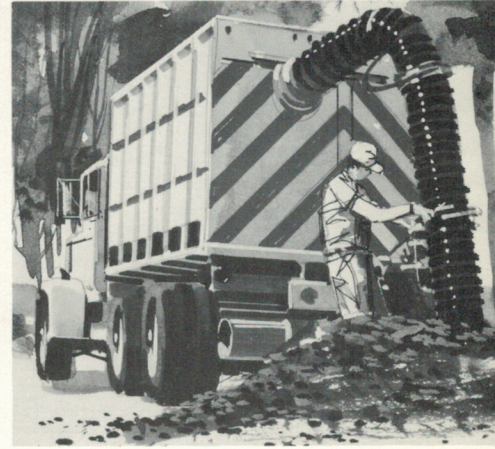
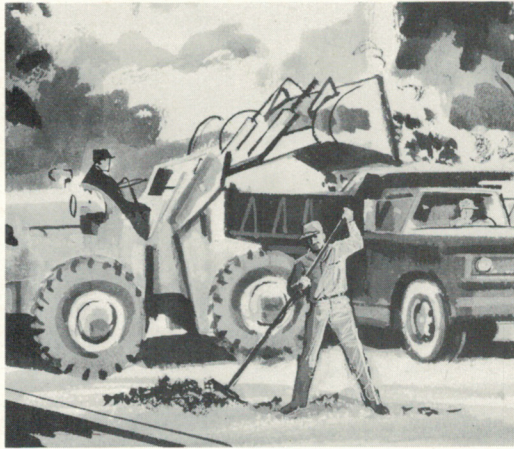
ELGIN

PRODUCT INNOVATOR IN THE SWEEPER INDUSTRY!

ELGIN PELICAN ...cuts the

The problem

For almost 40 years . . . from the 1920's to the 1960's . . . the conventional three-wheel street sweeper had an undesirable built-in "over-cost" — it had to deposit its sweepings back on the swept surface. This meant crews of 2-to-5 men had to be dispatched with shovels, loaders, and conveyors to remove these piles of dirt from the street by loading them into a dump truck. Often, before the pile of dirt was removed, the wind blew much of it away . . . or an unwary motorist might have rammed it with his car. But, in addition to the traffic hazard and the blowing dust, there was one other major problem: rehandling costs of sweepings were beginning to stagger the imagination. Funds allocated for the ever-expanding responsibilities of street cleaning departments were being eaten up disproportionately. More money was being spent *after* the streets were swept than for what was the department's primary job: sweeping streets.

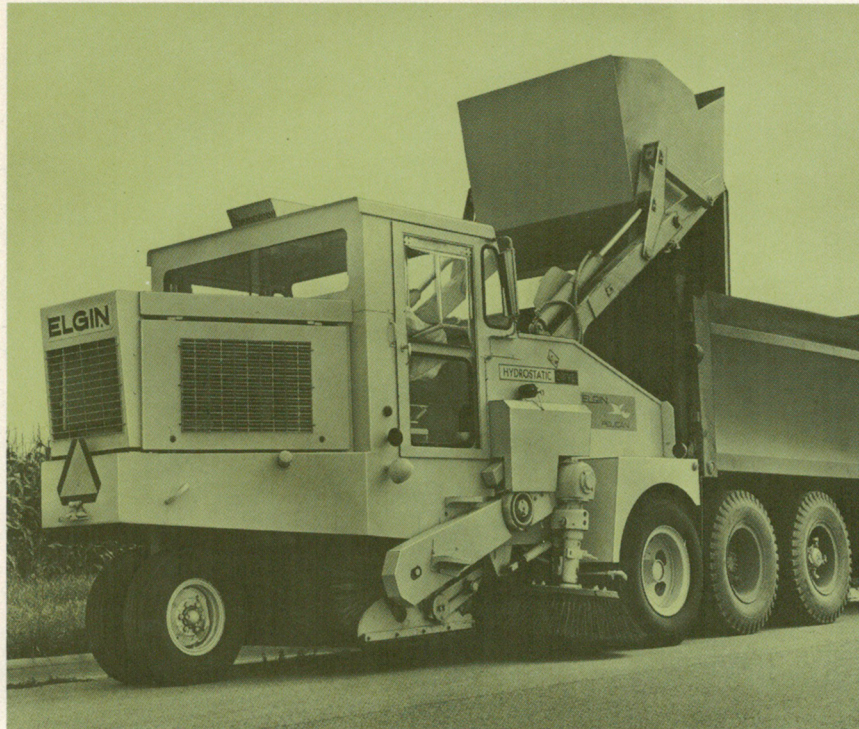


The solution . . . the *PELICAN* method.

As is always true when a genuine breakthrough is achieved . . . a considerable amount of design time and on-the-job testing precede the moment of triumph. Elgin Sweeper Company knew for years the lack of logic in the "double-handling" of sweepings, and it tried various methods to attack the problem. Then, in the early '60s . . . Elgin's Engineering and Research Department developed the *PELICAN* concept. After extensive field testing, it became a full blown reality. In 1964, Cedartown, Georgia purchased the first *ELGIN PELICAN*.

The *PELICAN'S* foremost feature is its self-elevating, self-unloading hopper, capable of dumping automatically at any elevation from ground level up to 9 feet 6 inches high. It can dump its load into a conventional dump truck, into containers, over a wall, into a railroad gondola or stockpile loads at a central dumping area. The *ELGIN PELICAN* system became the new accepted method of street cleaning. The *PELICAN* is actually two machines in one . . . a proven sweeper *and* a front-end unloader.

highest cost in street cleaning.



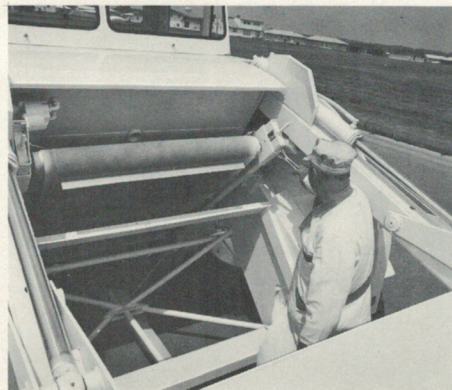
Sixty years of sweeper manufacturing, including a decade of continuous improvements of the ELGIN *PELICAN* makes it the nation's undisputed leader

... and it wasn't by accident. Historically, ELGIN SWEEPER COMPANY has maintained a concentrated program of unparalleled improvements and innovations to provide customers throughout the world with the highest quality, most up-to-date street sweepers available. Yes, the *PELICAN* does cut the highest cost of sweeping — the rehandling job. But, the *PELICAN* also cuts costs in every other phase of the sweeping operation as well.



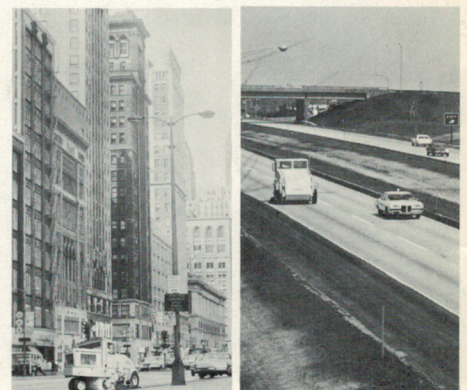
Versatile

Dumps into a dump truck, refuse container, railway car, over a wall and stockpiles.



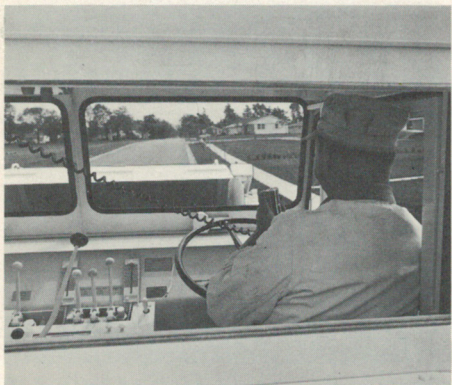
Safe and sanitary

Eliminates piles of sweepings, blowing of dust and residue. Clean for the operator. Safe to maintain.



Adaptable

Municipal, Highway, Tollway, Thruway, Airport, Parks, Condominium projects, Industrial, Institutional, Contractor... you name it.



Systematic

Works with any sweeping program... 2-way radio; night sweeping; alternate parking... build your street cleaning department around the "systematized" ELGIN *PELICAN*.

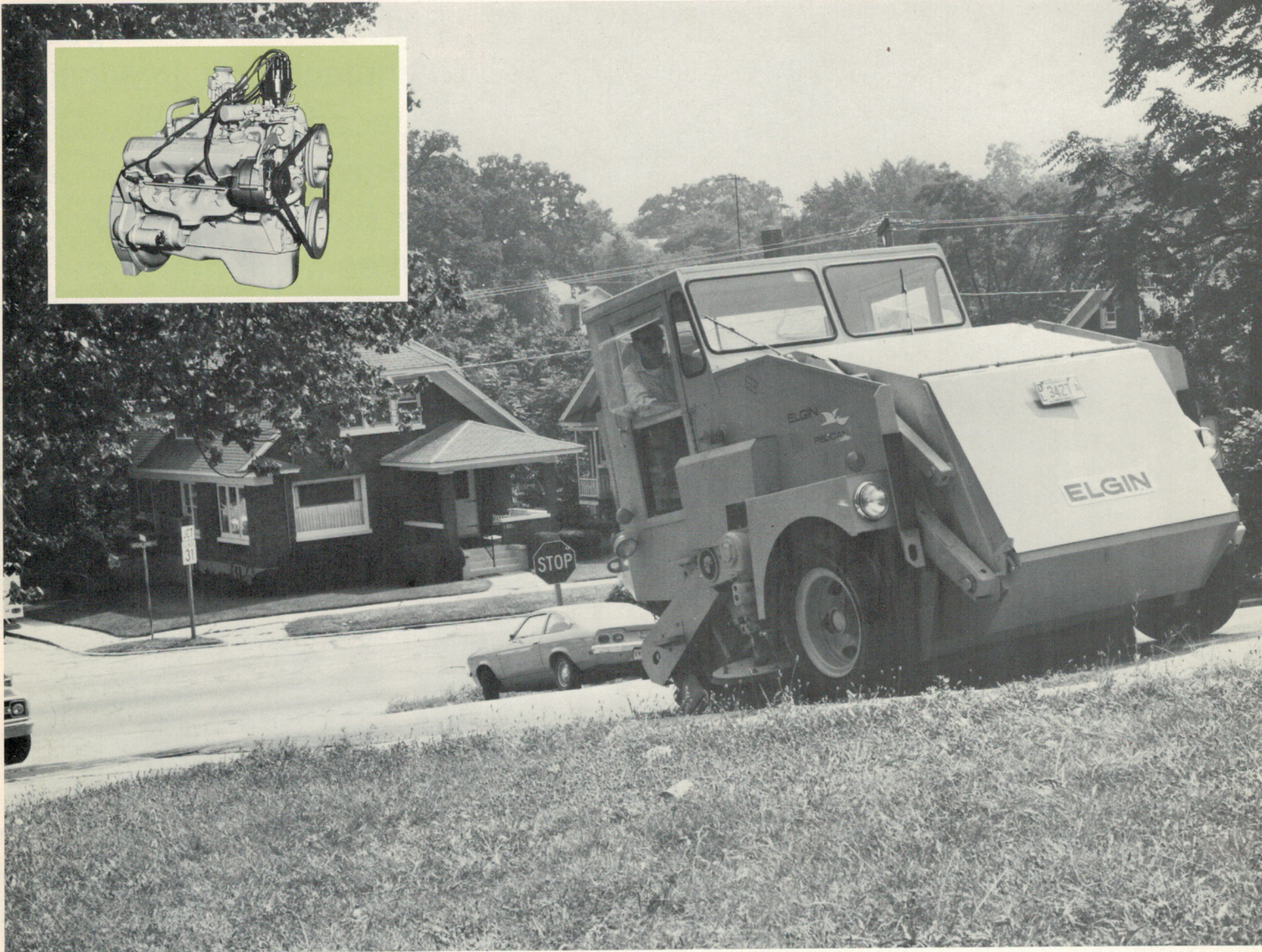


Economical

Minimizes non-sweeping time. Cuts maintenance costs. Allows more curbs-miles to be swept cleaner, faster. That's what it's all about.

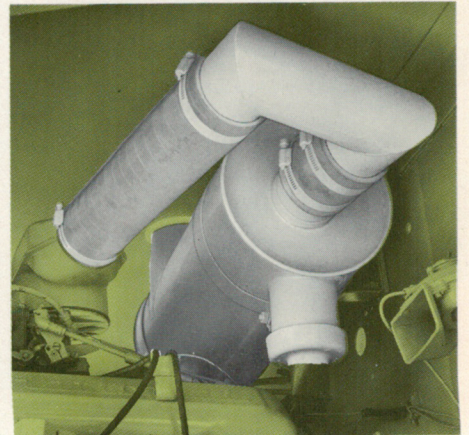
Improvements and innovations kept up with the nation's needs in sweeping.

The ELGIN PELICAN ...now



1 New, V-345 V-8 Engine. Certified clean by United States Environmental Protection Agency and the State of California . . . 196 Brake Horsepower with 345 cubic inch displacement . . . 309 foot pounds torque at 2200 RPM . . . a superior power plant for the ELGIN PELICAN!

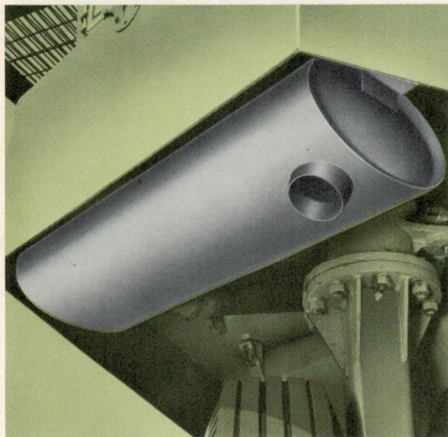
ELGIN Sweeper Company has practiced a program of continuous product improvements to expand ELGIN PELICAN'S adaptability. Now on every ELGIN PELICAN these "job-proven" extra features are standard equipment.



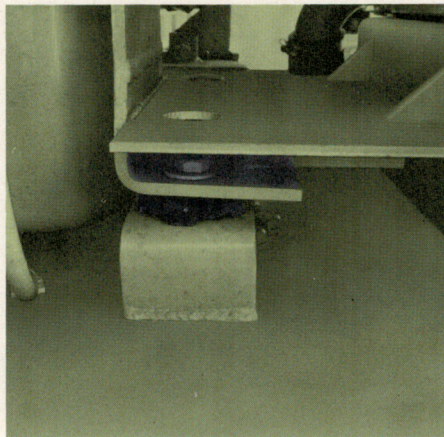
2 New, Two-Way Protected Air Cleaner . . . featuring two concentric elements . . . one for standard operating function . . . the second for double protection against dust and dirt. Easy servicing and excellent protection to give longer engine life!



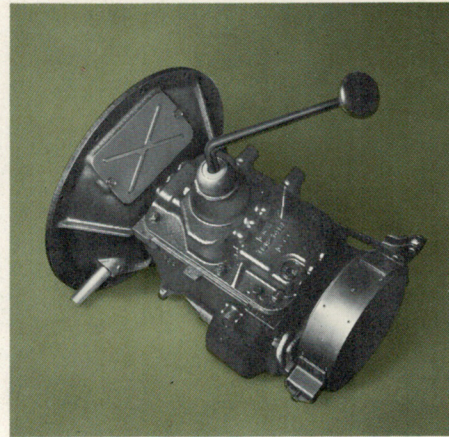
11 ways better than ever!



3 Newly Designed, Quieter Muffler and Exhaust System. Quieter for operator, quieter outside and exhaust fumes are directed under the sweeper, away from operator's compartment.



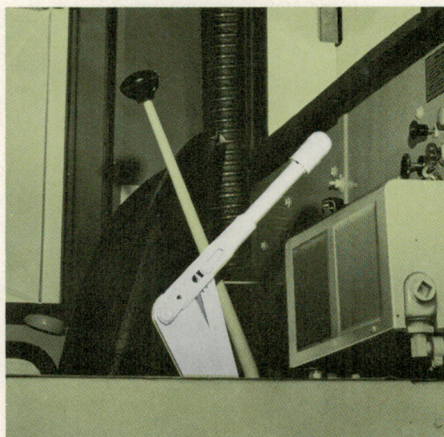
4 New Rubber Engine Mountings. Isolates engine from other components. Reduces transfer of engine vibrations to chassis and operator's compartment. Contributes substantially to noise suppression.



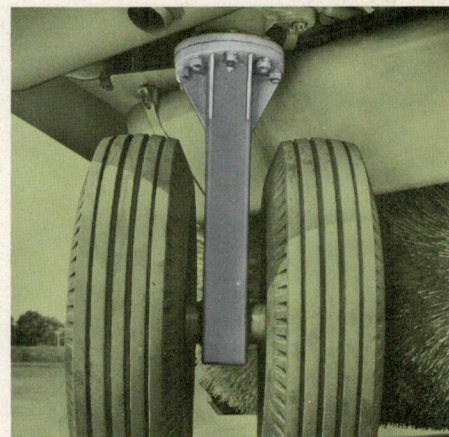
5 New Transmission . . . with new, higher torque output. Entire drive train improved, with increased power performance!



6 New Thirty-Five Gallon Gasoline Tank . . . for longer operating time between gasoline fill-ups.



7 New Orscheln Brake Lever. Positive locking, with built-in adjustment on handle for setting higher brake shoe tension.



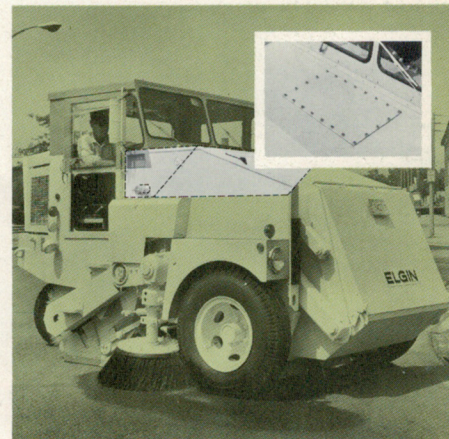
8 New Stronger Guide Wheel Strut System. Reduced in length for greater strength and beefed up with heavy-duty $\frac{7}{8}$ " crossplate.



9 New Stronger, Longer Lasting Guide Wheel Tires. Now 7:50 x 15, 10 PR nylon tires to provide greater wear and longer life of the rear tires.

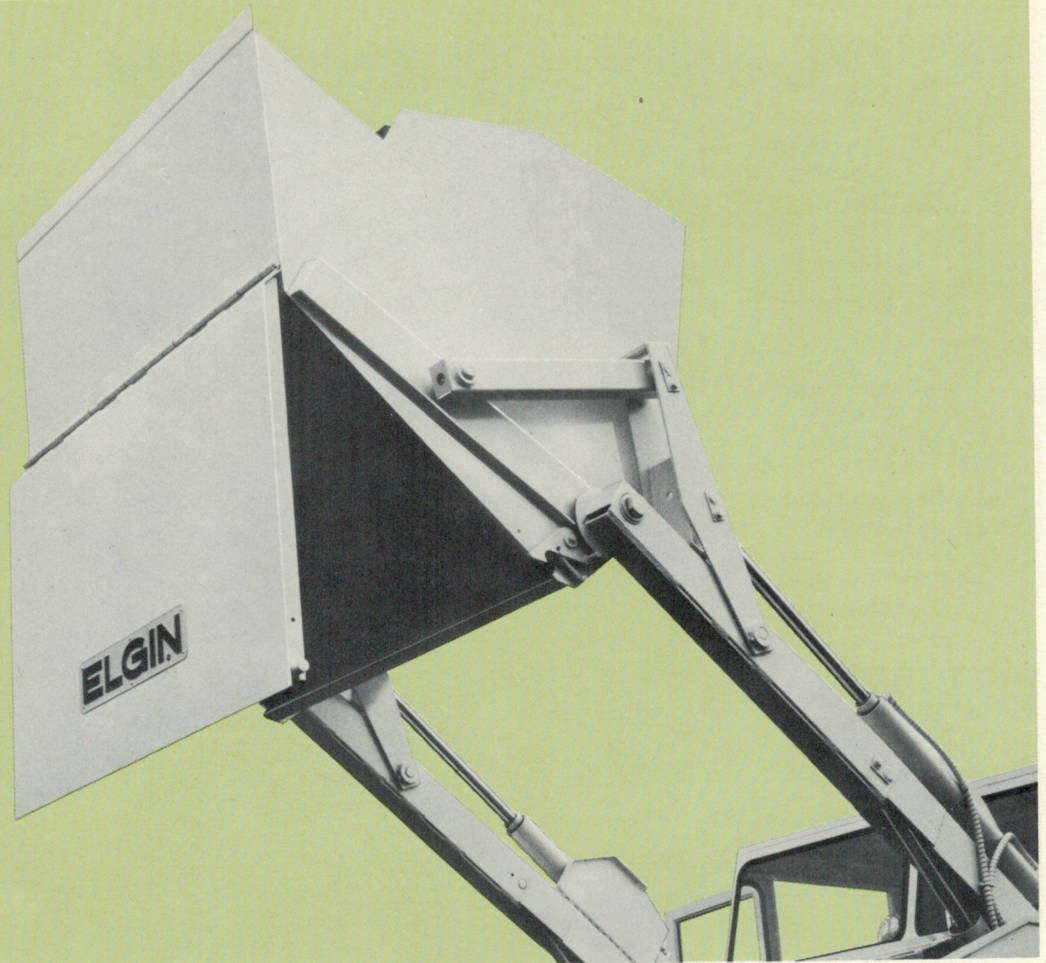
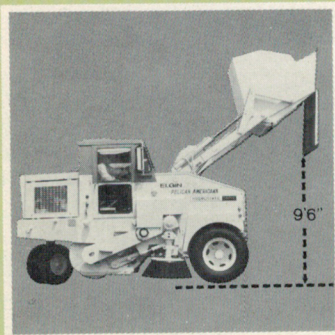
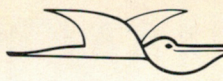


10 New Elgin Polypropylene Cable-Wrap Main Broom . . . now standard on all PELICANS at no extra cost. A Durable Quality broom for better sweeping efficiency.



11 New Coro-Gard Coated Water Tank . . . eliminates rust and scaling in water tank. Outlasts vinyl, epoxy, or neoprene-coated surfaces. For serviceability, a convenient access door is located just in front of the operator's cab.

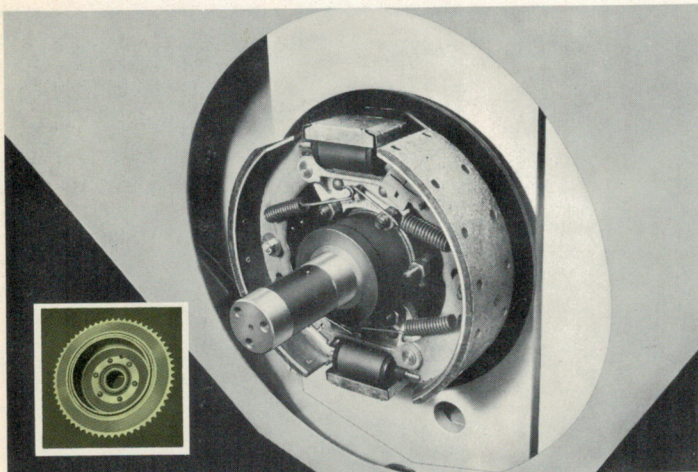
Exclusive ELGIN PELICAN



Patented self-elevating hopper system

Three cubic yard hopper self-elevates 9,000 pound loads from ground level all the way up to 9'6" . . . quickly dumps its load at any level in-between. Hopper is cleanly designed and fully enclosed with a minimum number of pivoting linkages in lift/dump mechanism. Four powerful hydraulic cylinders control dumping action . . . two cylinders for lifting . . . two cylinders for rolling the hopper into dumping position. "Roll control"

allows clean load discharges at selected degrees of dumping angle (up to 90°) . . . PELICAN "shakes its beak" up and down to dislodge the last bit of dirt, as necessary — impossible on other similar sweepers. Loads can be inspected from the operator's position at any time. Hopper can be rolled over and placed on the ground permitting full-service, safe accessibility and ground level maintenance of the hopper and conveyor systems. No other sweeper has this capability.



Full-power Brakes

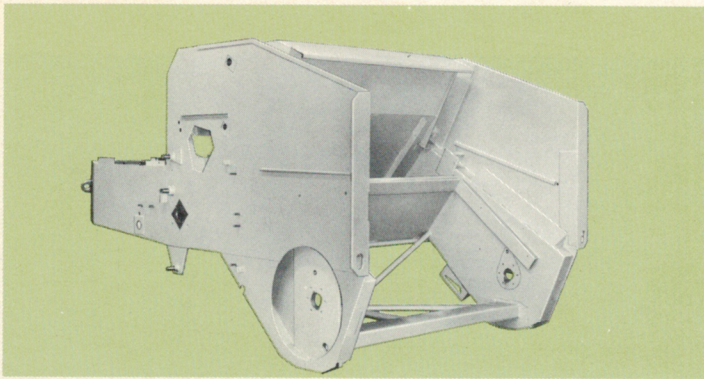
Double dust-sealed, fully enclosed to protect the full 256 square inches of linings from dirt and water . . . reduces possibility of brakes seizing. Sealing extends brake life, assures safe and sure stopping every time.



Full Visibility

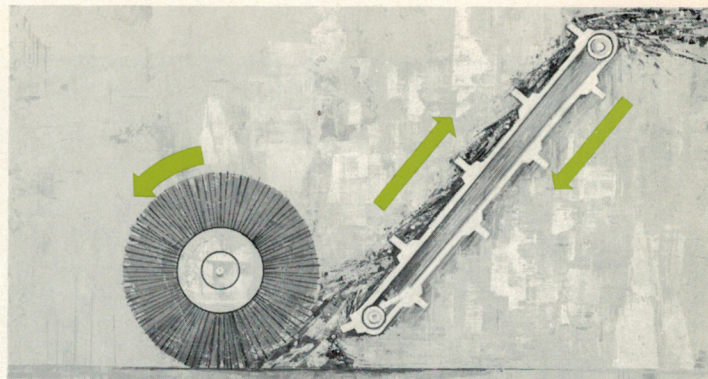
Full width front windshield, wide-view sliding rear window, and automotive type roll-down windows. Gives the operator an excellent view of vehicular traffic and pedestrians to the front, both sides, and rear. Full visibility of side brooms as he maneuvers the sweeper during sweeping.

standard features



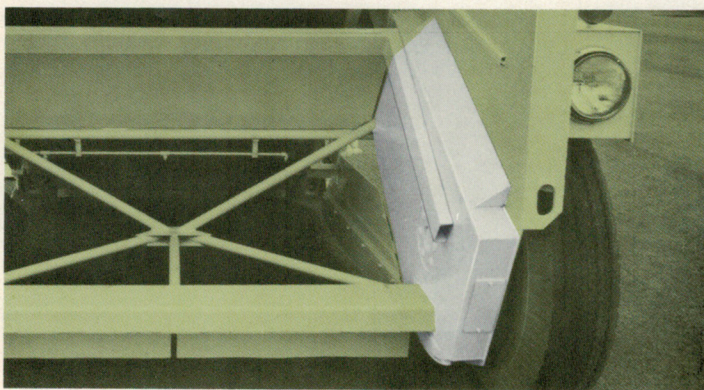
Unitized All-steel Chassis

Built for more stress than it would ever be subjected to. One-piece welded construction with drop-center through-axle design. No frame to warp or bend. Welded, rigid box structure of $\frac{3}{8}$ " steel plate for long life expectancy. Easier service and maintenance. "Unitized construction" adopted by ELGIN in 1954, has proven itself over and over again as the most rugged, durable method for building a sweeper body.



Dirt Conveyor System

An ELGIN exclusive. Proven lower maintenance. Full 48-inch width molded rubber cleats on the tough multi-ply conveyer belt provide 14% greater carrying capacity. New hydraulic reversible drive motor is more powerful, features lower R.P.M. but higher torque with a built-in by-pass safety valve for overload protection. New "full-belt-width" splice for easier repair or belt change. Virtually jam-free operation permits transport of all kinds of street debris — uninterrupted — to the PELICAN hopper. Reversible, *without* reversing the brooms.



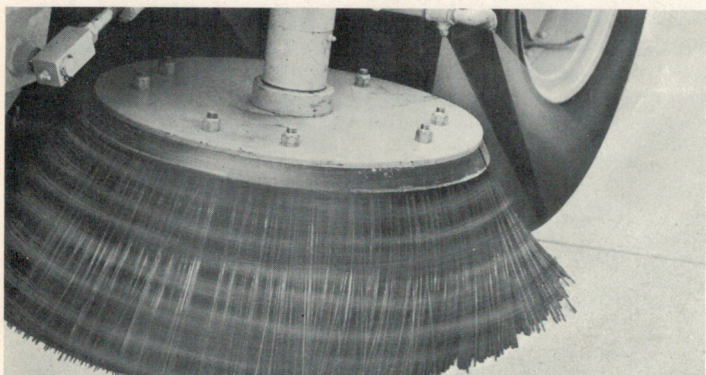
Main Drive Chains

Fully enclosed to keep out abrasives, dirt and debris. Holds lubrication longer. Chain lasts virtually the lifetime of the machine. Enclosed chains mean greater safety without additional safeguards.



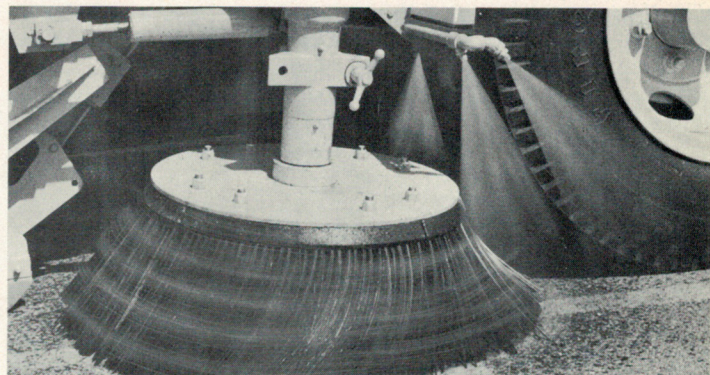
Hopper-conveyor Flusher System

Exclusive with ELGIN. System cleans *both* conveyer and hopper . . . without plumbed system. Simply connect the hydrant filler hose to a hydrant, activate the conveyer drive and the entire hopper and conveyer areas are flushed thoroughly clean.



Side Broom

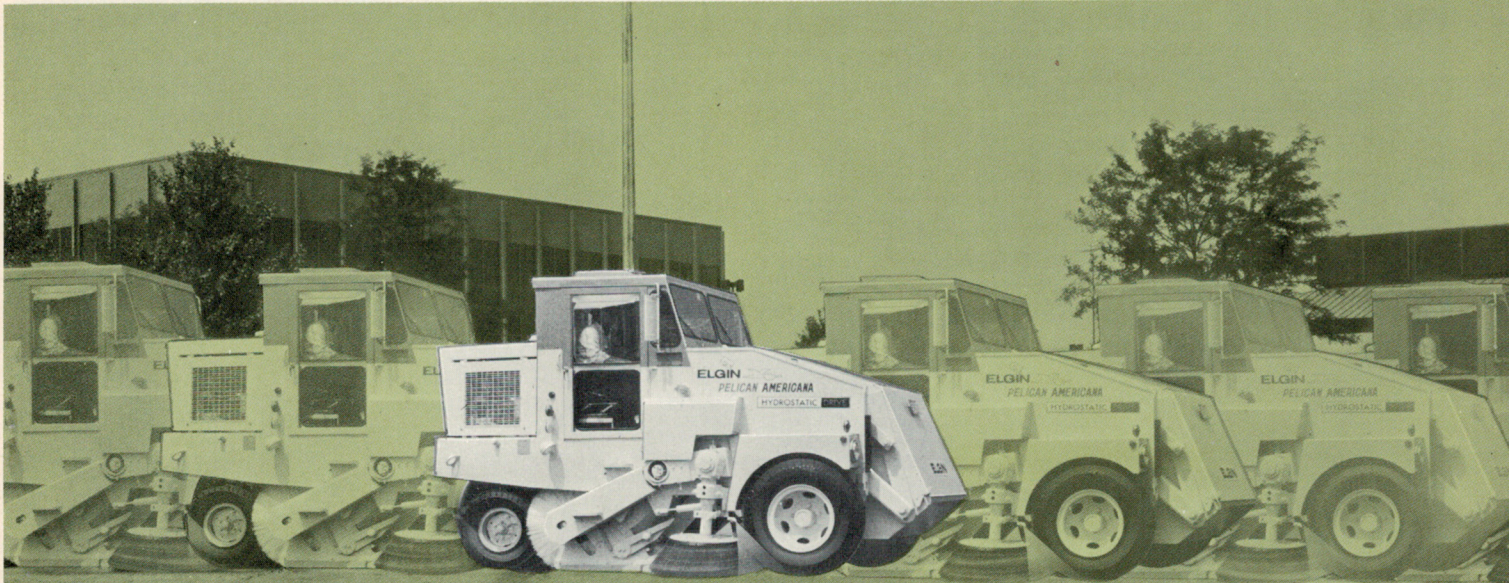
Variable speed, P.T.O. driven side broom, with float-spring counter-balance system, provides *six-way* protection against obstructions. Broom "gives" inward toward the sweeper, outward, frontward, or rearward — up or down — when required. In extreme conditions, a shear pin takes the load, preventing damage to the side broom. This system completely controlled and infinitely adjusted for pressure — from operator's position.



Dust Control System

Atomized water spray attacks dust at street level and virtually smothers it. Rugged, gear-type, positive displacement pump drives water to spray nozzles . . . develops highest pressures available in sweepers today. Pressure relief valve protects pump seal from damage. Steel water tank constructed of 10 gauge and $\frac{3}{8}$ " plate. Metered water flow increases miles-per-gallon ratio.

Optional ELGIN PELICAN



Hydrostatic Drive

Greatest innovation in sweeping since the PELICAN CONCEPT



Hydrostatic Drive

Never, in the history of ELGIN Sweeper Company's long list of innovations, has anything quite "hit" like Hydrostatic Drive in the PELICAN. An instant success, it has been included in new PELICAN specifications by every kind of user. What are the benefits of Hydrostatic Drive? *Twin engine performance* with the economies of *only one engine* . . . constant broom and conveyer speed independent of either vehicle speed or direction . . . *one-pass sweeping* regardless of how heavy the dirt accumulations. The operator can dig out crusted dirt because he can "inch" the PELICAN along, while maintaining constant broom speed. He can sweep at 8 to 10 mph for light

conditions, or he can reverse the sweeper with *no loss of broom speed*. Hydrostatic Drive is simple and less expensive to operate. The clutch has been eliminated. There are *no gears to shift*. One foot pedal controls vehicle speed and direction. All the while, broom rotation speeds are automatically maintained (once engine RPM is set) and brooms can be engaged or disengaged at any engine speed . . . whether the sweeper is in motion or not. Engine life is extended and fuel economies are achieved because of constant engine speed operation. With Hydrostatic Drive you also get the benefits of effortless Hydrostatic Steering as well as dynamic braking. And there are maintenance advantages with Hydrostatic Drive, too, including a two-year warranty on the hydrostatic transmission.

A summary of Hydrostatic Drive features:

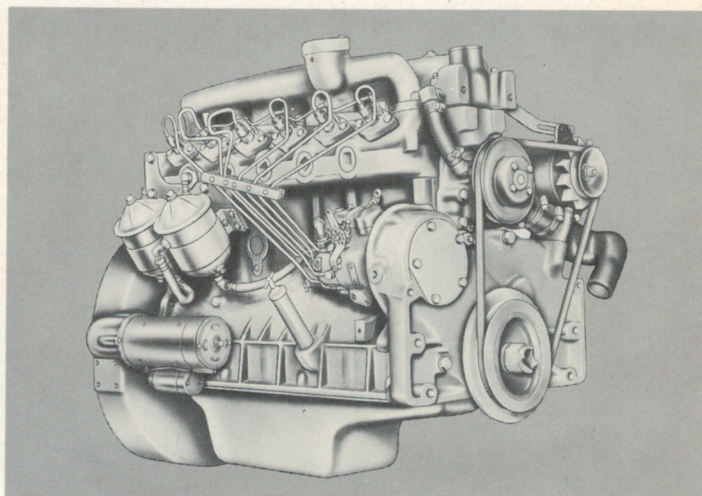
- **AUTOMATIC DRIVE**
No gears to shift, no clutch.
- **VARIABLE BROOM SPEEDS**
Ranges from 70 rpm to 135 rpm. Independent of vehicle speed.
- **GREATER TRAVEL SPEEDS**
0 to 30 mph with infinite range of speeds in between.
- **DAMAGE-FREE BROOM ENGAGEMENT**
Whatever the vehicle speed, brooms can be engaged or disengaged.
- **LONGER ENGINE LIFE . . . BETTER FUEL ECONOMY**
Constant engine speeds at closer to peak efficiency mean less strain.
- **TRUE ONE-PASS CLEAN SWEEP**
Broom speeds independent of vehicle speed or direction regardless of sweeping densities.
- **HYDROSTATIC POWER STEERING**
Exceeds standard power steering performance by 50%. Less operator fatigue.
- **DYNAMIC BRAKING ASSIST**
Automatically brakes sweeper when foot pressure removed from pedal.
- **PROVEN RELIABILITY**
Lower maintenance. Full two year warranty on transmission.

features



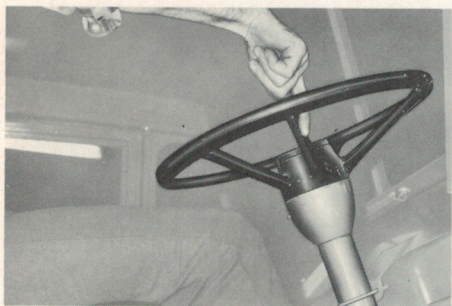
Dual Control System

A must for cleaning of one-way streets, tunnels and divided highways. Efficient, highly workable system features steering and operating controls and side brooms on both sides of the sweeper.



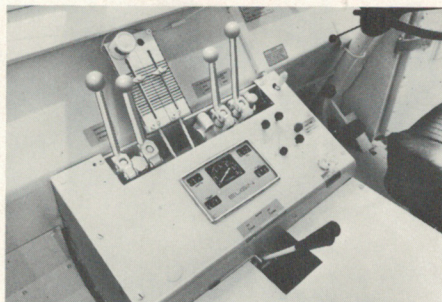
Diesel Power

For dual economy... lower fuel costs and more miles-per-gallon. Lower maintenance costs, too... less need for servicing, and no ignition system to maintain. Superior power with 217 ft. lbs. of torque featuring PELICAN's *tried, tested* Diesel engine.



Hydrostatic Steering

The next step up from regular Hydraulic Power Steering. 50% less effort required to turn wheel. Mechanical linkages eliminated means less maintenance. On duals, interconnection of steering wheels eliminated. Automatic manual control built-in, in case of engine loss.



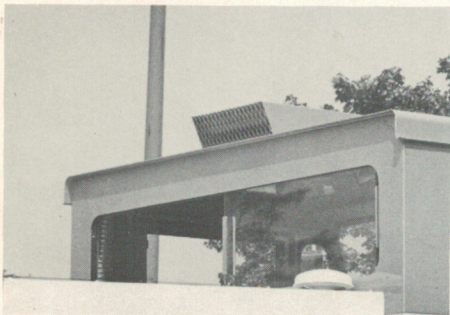
Hydraulic Main Broom Suspension System

In-the-cab control of up-and-down main broom pressure, plus exclusive dash-mounted, calibrated Broom Position Indicator for maximum sweeping control on all kinds of surfaces. Broom "bounce" control has hydraulic cushioning and double acting springs.



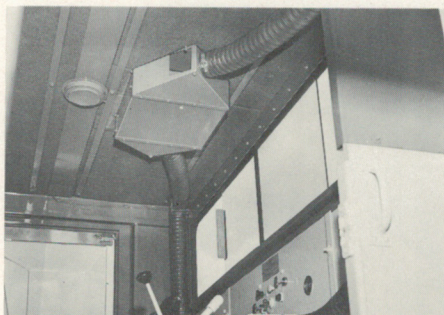
See-thru Doors

Slide-down bubble top safety glass lower window provide maximum safety, comfort and visibility for sweeper operator. 100-inch ground-point visibility to far side of sweeper from operator's position. An excellent companion feature for the cab pressurization and heating system.



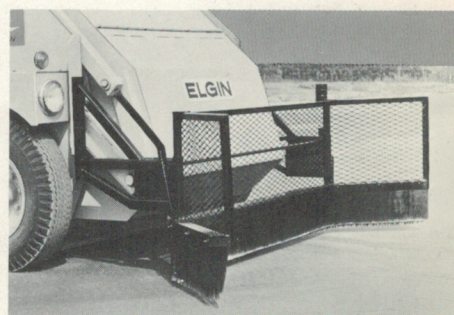
Cab Air-Conditioning

Factory installed air-conditioning provides operator comfort with extra high cooling capacity. Maintains cab pressurization and dehumidifying. Drives 300 cu. ft. of air per minute. Oversized blowers can be operated with cooling system off for fresh air ventilation.



Cab Pressurization and Heating System

Dust-free with 110 square inches of filtering area. Two-in-One system... one for cooling and ventilation... one for cab heating (27,000 BTU) during inclement weather. An all-year-round method for dust-free cab comfort.

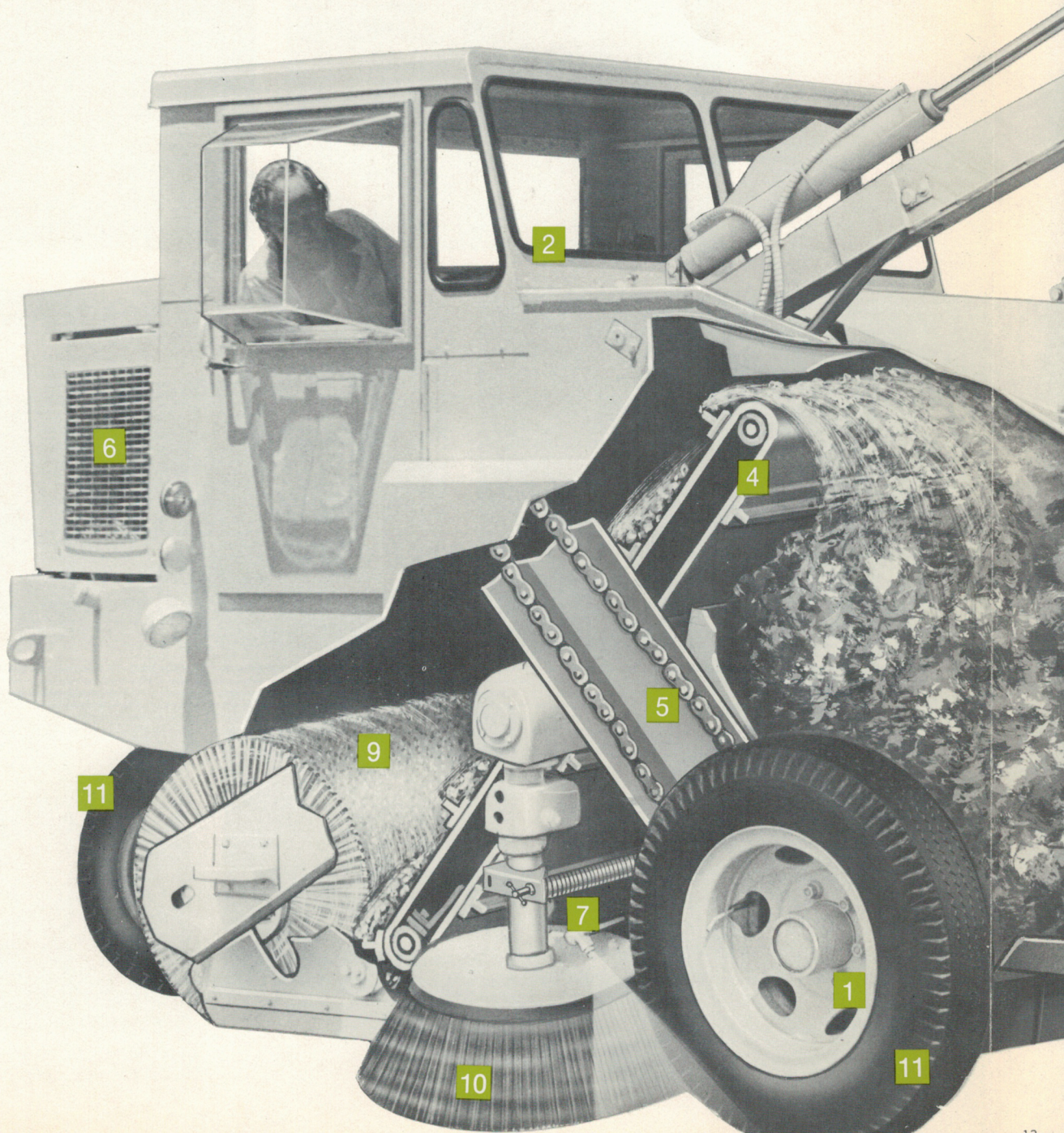
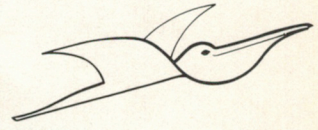


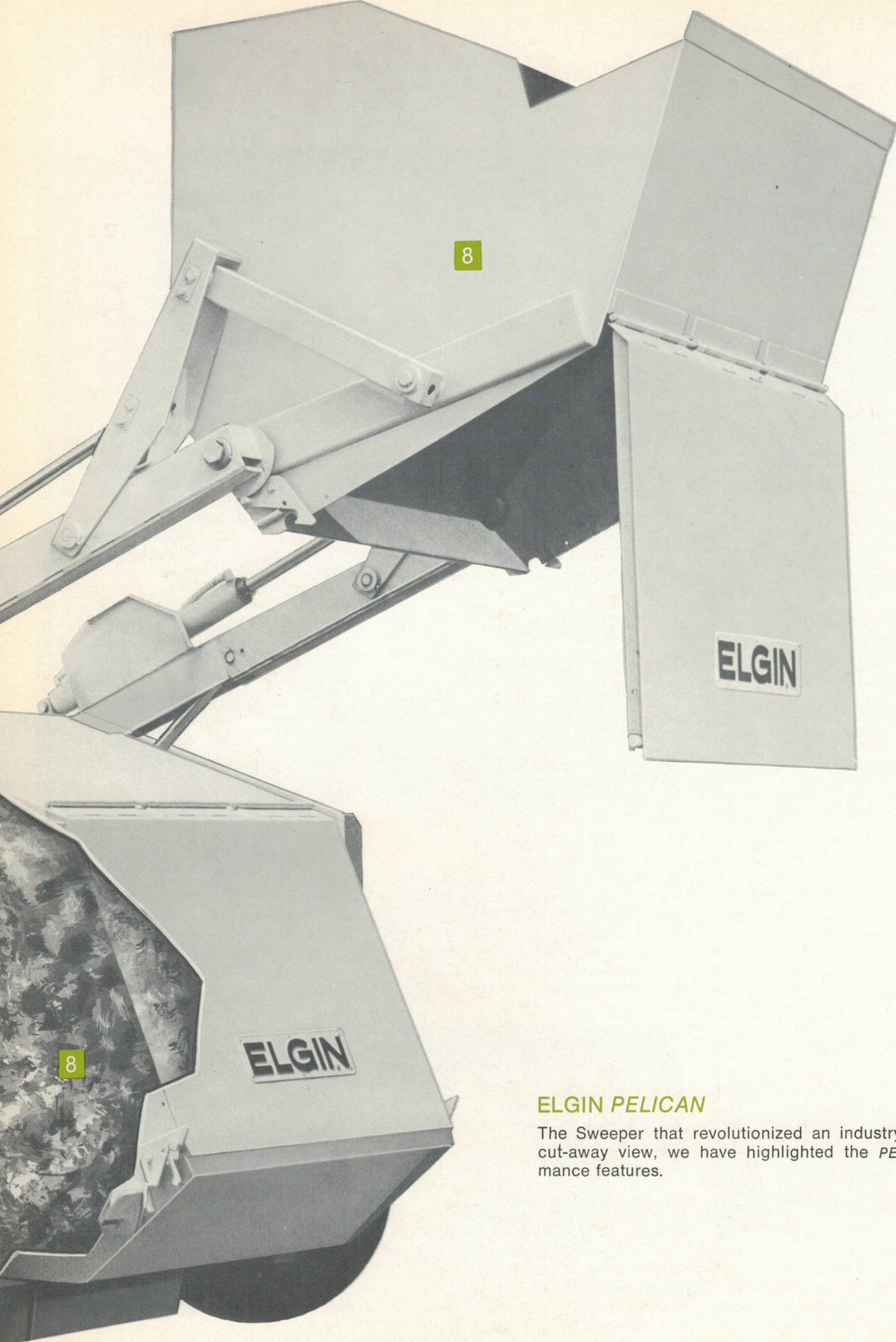
Full Width Leaf Piler

Simplifies fall clean-up problem... pushes loose leaves into piles, making pick-up neat and clean.

Leadership and acceptance through performance

ELGIN *PELICAN*





ELGIN PELICAN

The Sweeper that revolutionized an industry. Here, in this cut-away view, we have highlighted the *PELICAN*'s performance features.

ELGIN PELICAN FEATURES

STANDARD FEATURES

1 BRAKES

- 256 sq. in. lining
- Full power
- Fully enclosed
- Double-dust-shielded

2 CAB

- 14 gauge all steel
- 3,686 sq. in. glass
- Roll down windows
- Automotive door handles
- Front hinged doors
- Centralized control panel
- Illuminated instrument panel
- Turn signals in steering column
- Deluxe foam cushion seats
- Rear sliding window

3 CHASSIS (Not shown)

- Unitized steel design
- H. D. guide wheel strut
- No counter balancing
- Tow hooks on chassis front/rear
- Full width drop center front axle
- Rubber bumpers

4 CONVEYOR

- Multi-ply calendarized belt
- Independent hydraulic drive
- Relief valve overload protection
- Reversible without reversing brooms
- Full width carrying cleats
- Fully enclosed
- 9¼" travel clearance

5 DRIVES

- Truck type differential
- Fully enclosed drive chains
- Easily accessible chain adjustment
- Single speed PTO

6 ENGINE

- 345 cu. in. displacement
- 196 max. brake H.P.
- 309 foot pounds torque
- 8 cylinders
- Certified clean
- Rubber engine mounts
- Double safety air cleaner
- High torque H. D. transmission

7 DUST SPRAY SYSTEM

- 180 gallon capacity
- Coro-gard coated tank
- Removable access door
- High pressure atomization
- 40 P.S.I. gear type pump
- Fully protected
- 12'6" fill hose
- Built in hopper conveyor flusher

8 HOPPER

- Self elevating
- 9'6" max. dump height
- Load inspection from cab
- 3 cubic yard capacity
- Clean design
- Rated for 9,000 lbs. load
- Lift arms fully protected
- 30 second dump cycle
- 90° dump angle
- Hopper roll control

9 MAIN BROOM

- 36" diameter, 68" length
- Cable wrap type
- Polypropylene filler
- Refillable, reversible
- Spring suspended
- Shock absorber snubbed
- Hydraulically raised/lowered

10 SIDE BROOM

- Vertical digger
- Located behind drive wheels
- Spring suspension
- Hydraulic pressure from cab
- 6-way impact protection
- Shear pin rotation protection
- Quick detach cast iron segments
- Protected spot light

11 TIRES

- 10:00 x 20, 12 P.R. front
- Skid protected
- Full fenders
- 7:50 x 15, 10 P.R. rear
- Dual rear tires

SYSTEMS IN



SANITATION

ELGIN PELICAN AMERICANA



Never before have sweeper buyers had the opportunity to select a sweeper like the ELGIN *PELICAN AMERICANA* all in one "package." It is literally loaded with dozens of features that sweeper owners and operators want most. Just look over the many standard features listed to the left and below . . . plus the finishing touches, the finest details, such as custom two-

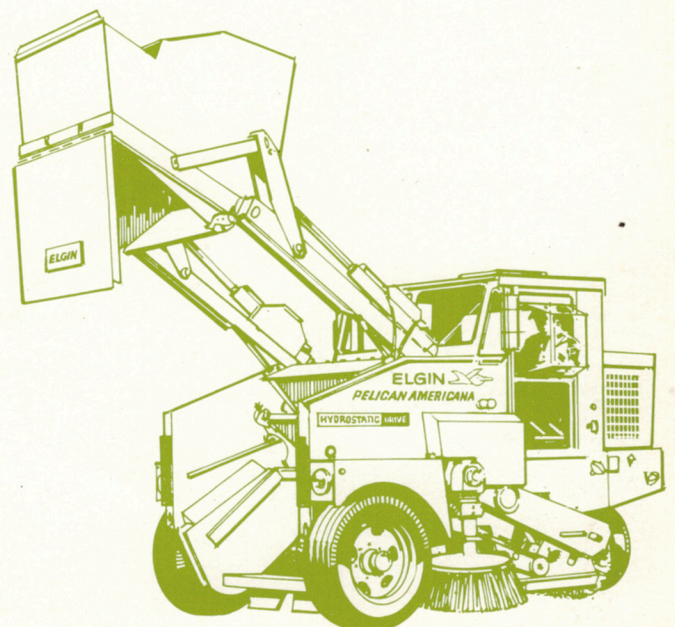
tone paint and illuminated license plate holders . . . a unit any customer would be proud to own. The *PELICAN AMERICANA* is literally loaded with features that assure the operator efficiency, economy and comfort never before offered in a mechanical sweeper.

Standard features of the ELGIN Americana

(same features are optional on Standard Pelican)

FEATURES

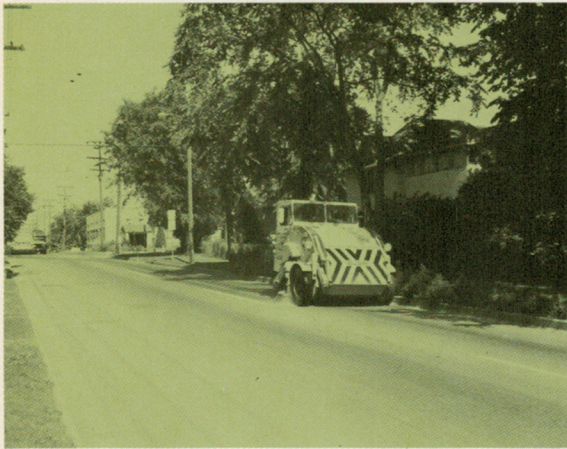
- Hydrostatic transmission
- Hydrostatic steering
- Cab sound insulation
- Diesel engine
- Hydraulic main broom suspension
- Water tank 230 gallons
- Cab pressurizer and heater
- See thru doors
- Water tank fill gauge
- Clearance lights
- Padded sunvisor
- West Coast mirrors
- Seat belts
- Cab dome light



The ELGIN PELICAN ...ideally



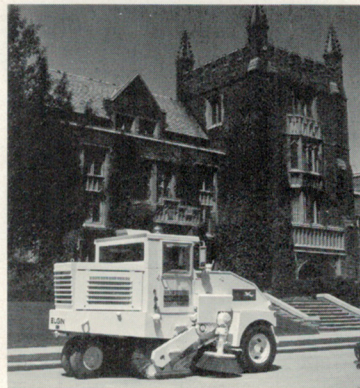
In large city fleets . . .



In medium size communities . . . to the smallest towns . . .



On the nation's tollways, thruways and expressways . . .



At military installations . . .
At colleges and universities, hospitals,
institutions of all kinds . . .



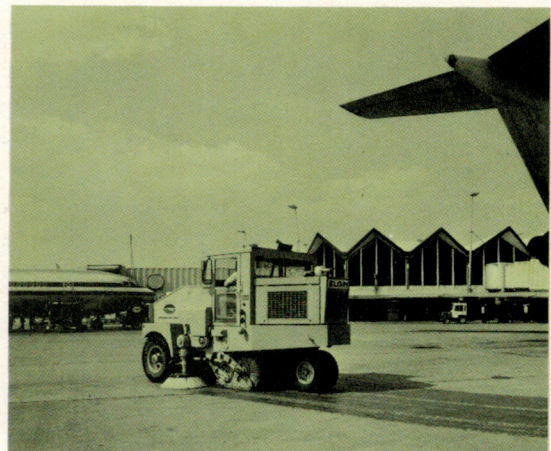
In parking lots, shopping center, factories,
drive-ins and malls . . .

suited for every sweeping need

In Canada . . . Mexico . . . Overseas . . .
everywhere.



Sweeping contractors . . . road
construction . . .

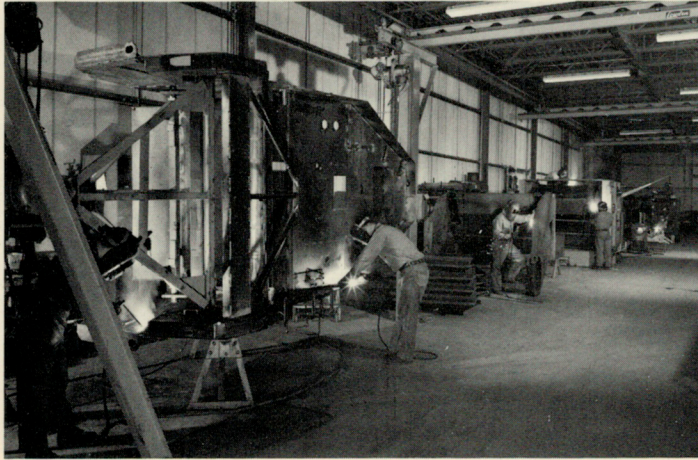


At airports — on runways, taxiways, loading ramps and hangers . . .



Warehouses, docks, and wharves.

From the Factory, To the Dealer, To you —
Quality Every Step of the Way



From the moment the *PELICAN* was conceived, it has represented a total commitment to performance: in its early design and testing . . . in its product improvement and innovation . . . in its assembly at the modern ELGIN plant — it is subjected to the most rigorous quality control program.



Behind Every *PELICAN* — Dealer Support


Across the country and around the world your *PELICAN* is backed by the ELGIN dealer network — complete with genuine ELGIN parts to keep your *PELICAN* on the job where it belongs. And the trained service personnel you can count on.

So before you buy your next sweeper, look to ELGIN — the company with the machines that revolutionized an industry. And to your ELGIN dealer — who sells and services the machines.



Nobody does it better

ELGIN 
Pacesetter in Sanitation

 Elgin
Leach
Corporation

2 North LaSalle St.
Chicago, Illinois 60602

International Distribution:
Elgin Leach International, Inc.
2 North LaSalle Street • Chicago, Illinois 60602