



**Branch Office**  
P.O. Box 692109  
Tulsa, OK 74169  
918-809-8011

**Branch Office**  
P.O. Box 11035  
Kansas City, KS 66111  
913-371-8260

**Main Office**  
P.O. Box 2007  
Maryland Heights, MO  
63043  
314-298-8330

May 10, 2016

Senior GS Specialist  
MODOT  
P.O. Box 270  
Jefferson City, MO 65102



Thank you for the opportunity to provide all MODOT Districts our 2016 Elgin Pelican NP Dual Mechanical Street Sweeper proposal. Key Equipment and Supply Company is proud to provide the safest, durable and most dependable street sweepers available today.

**Please review the following standard features:**

Air cleaner, two-stage, dry type with restriction indicator  
Air conditioner  
Alternator, 120 amp  
Anti siphon water fill  
Automatic engine shutdown (oil pressure/engine temperature)  
Automatic pickup in reverse  
B20 biodiesel compatible  
Back up alarm, electric  
Battery, maintenance free  
Brakes, power  
Broom, main, hydraulically suspended  
Broom, main, in cab pressure control  
Broom, main, prefab, disposable  
Broom, side broom, hydraulically suspended  
Broom, side broom, in cab pressure control  
Bumper pads, front jack  
Coolant recovery system  
Doors, see through glass, prop-able  
Electronic Throttle  
Engine, hour meter  
Gauges & Warning lights:  
    engine oil temperature  
    engine oil pressure  
    fuel level  
    speedometer & odometer w/trip set  
Fenders, over front wheels  
Flushing system for hopper/conveyor  
Fuel tank, 35 gallons  
Fuel Water separator with indicator light  
Heater, pressurizer with filtered air, defroster  
Hose, hydrant fill, 16' 8" with coupling

Light, spotlight, adjustable, one per side broom  
Lights, 2 combination, tail/stop lights  
Lights, headlights, multiple beam  
Lights, low water light  
Low Hydraulic Warning  
Main broom controls in cab  
Manuals, operator and parts  
Mirror, inside rear view  
Mirrors, outside, front mounted 6" fish eyes  
Mirrors, outside, front post mounted, west coast type, one each side  
Parking brake with interlock  
Rear Camera & in cab monitor  
Return to sweep feature  
Seat Belts (both sides for dual)  
Seats, extra wide cordura suspension seats with arm rests  
Signals, self-canceling directional with hazard switch  
Sprung guide wheel, heavy duty  
Steering wheel, tilt and telescoping  
Sun visors  
Tachometer, diesel engine  
Tires, tubeless radials  
Tow loops, four  
Water tank, fill gauge  
Water tank, molded polyethylene: 220 gallon total nominal capacity  
Wheels, dual guide  
Wheels painted grey  
Window, opening front opera  
Windshield washer  
Windshield wipers with intermittent setting  
Windshield, tinted

In addition to the standard features, the following product enhancements meet and or exceed the current 2016 MODOT specifications:

- Robert Shaw automatic lubrication system with an individual pump for each zerk
- Single Whelan LED strobe light with limb protector mounted to top rear of cab
- Left and Right gutter broom tilt angle control from in cab
- AM/FM stereo weatherband radio with CD player and two speakers
- Sweeper painted yellow
- Main Broom Hour Meter
- Lower conveyor roller cleanout (uses hydrant water)
- Main broom hour meter
- Heated remote controlled mirrors
- Heavy Duty dual limb guards
- LED stop tail turn light
- Sweep resume after transport
- Automatic engine shutdown for low hydraulic level and high temperature
- Turbo II air precleaner
- AirRide cloth seats
- Service, parts and operators manuals to meet specifications

**Delivered Price per Unit (74 HP Tier 4f)**

**Prices are good through May 13, 2017**

**Includes on site factory certified training by Key Equipment for service and operation**

**Payment Terms are Net 10**

**Delivery in approximately 45-120days A.R.O.**

**Other product enhancements are available to add to these specifications...see enclosure.**

If you need any information, please call our Kansas City office at 800-262-0149 or our St. Louis office at 800-325-4323. If I am traveling and you have an urgent need for information, a message will be forwarded immediately to my mobile phone. I am also available by e-mail at [steve@keyequipment.com](mailto:steve@keyequipment.com).

Yours truly,

*Steven Hyink*

Steven Hyink  
President



MODOT Options NP

	Options for Dual Pelican Red denoted items are included in 2016 MODOT Bid	Add/Delete
	<b>DEDUCT FOR SINGLE SIDE BROOM AND CONTROLS</b>	<b>\$9,000.00</b>
1087539	MAIN BROOM ODOMETER/HOUR METER	\$200.00
1086386	AM/FM/CD PLAY & 2 MAP LITE	\$400.00
1086377	CONVEYOR LOWER ROLLER CLEANOUT	\$215.00
1087582	(1)LED STROBE ON CAB W/GUARD	\$600.00
1101068	SPARE DRIVE WHEEL	\$500.00
1101069	SPARE GUIDE WHEEL	\$450.00
SPECIAL	PAINT SWEEPER YELLOW (ilo std white)	\$350.00
1087590	HEAVY-DUTY DUAL LIMB GUARDS	\$1,300.00
1082799	MIRRORS HEATED & MOTORIZED	\$500.00
1089503	RH SB TILT WITH INDICATOR	\$1,000.00
1089502	LH SB TILT WITH INDICATOR	\$1,000.00
1087563	HYDRAULIC OIL LEVEL & TEMP SHUTDOWN	\$200.00
1087668	ROBERT SHAW AUTO LUBE - NP DUAL	\$3,850.00
702401	PELICAN NP SERVICE MANUAL	\$100.00
1092067	AIR CONDITIONER	\$2,300.00

-----ADDITIONAL MANUALS-----

0701443	PELICAN OPERATORS MANUAL	\$50.00
0702261	PELICAN PARTS BOOK	\$95.00
0702453	PELICAN SERVICE	\$95.00
0704046	JOHN DEERE OPERATORS MANUAL	\$55.00
0704047	JOHN DEERE PARTS BOOK	\$70.00
0704048	JOHN DEERE SERVICE	\$190.00

-----ALARMS-----

1089339	SMART BACK UP ALARM	\$270.00
1089728	GROTE LOUD MOUTH BACKUP ALARM	\$270.00

-----AUTOLUBE-----

1087667	MIDWEST AUTOLUBE - SINGLE	\$5,445.00
1087668	MIDWEST AUTOLUBE - DUAL	\$6,115.00
1089040	VOGEL AUTOLUBE - SINGLE	\$6,865.00
1089041	VOGEL AUTOLUBE - DUAL	\$7,295.00
1107312	VOGEL AUTOLUBE - DUAL (USE W/GREASABLE DIRT SHOES)	\$9,000.00
1103124	MIDWEST AUTOLUBE - DUAL (USE W/GREASABLE DIRT SHOES)	\$7,040.00
1108963	MIDWEST AUTOLUBE - SINGLE (USE W/GREASABLE DIRT SHOES)	\$6,420.00

-----AUTO SHUTDOWN-----

1087563	HYDRAULIC LEVEL SHUTDOWN	\$390.00
1089429	HYDRAULIC LEVEL & TEMPERATURE SHUTDOWN	\$465.00
1120654	HYDRAULIC TEMPERATURE SHUTDOWN	\$90.00

-----BROOMS-----

1015558	EXTRA SET SIDE BROOM SEGMENT, FILLED	\$240.00
---------	--------------------------------------	----------

MODOT Options NP

1053847	POLY/POLY SIDE BROOM SET (PER SIDE)	\$65.00
1087976	STRIP BROOM 66" URB	\$875.00
1088008	MAIN BROOM CORE ONLY	-\$160.00
1088491	TUFF STRIP BROOM (ILO STD)	\$885.00
1088800	50/50 POLY/WIRE MAINBROOM	\$875.00
1089518	DEDUCT MAIN BROOM & CORE	-\$465.00
1091361	URB STRIP BROOM - CENTER SWEEP	\$875.00
1094877	ALUMINUM SIDE BROOM SEGMENT PER SIDE	\$625.00
1094878	POLY/POLY SIDE BROOM SET	\$120.00
1095342	DEDUCT SIDE BROOM SEGMENT (PER SIDE)	-\$190.00
1118360	DOUBLE WRAP MAIN BROOM (ILO STD)	\$995.00

----CONVEYOR/ELEVATOR-----

1087545	CONVEYOR STALL ALARM	\$695.00
1087575	LOWER ROLLER DEFLECTOR	\$485.00
1120820	CONVEYOR CLEANOUT	\$490.00

-----GAUGES-----

1087539	MAINBROOM ODOMETER/HOUR METER	\$370.00
1088858	LOOSE CHARGE PRESSURE GAUGE	\$295.00
1120827	IN CAB AIR RESTRICTION GAUGE	\$360.00

-----LIFELINER SYSTEM / EPOXY COATING-----

1092236	LIFELINER HOPPER SYSTEM W/WARRANTY	\$3,890.00
---------	------------------------------------	------------

-----LIGHTS-----

1087564	STROBES IN THE BATTERY COVER	\$1,240.00
1087873	LED CLEARANCE LIGHTS	\$255.00



MODOT Options NP

1120770	LED LIGHTS IN BATTERY COVER	\$1,130.00
1120744	(2) LED REAR FLOODS & BACKUP LIGHTS	\$755.00
1120840	LED RIGHT HAND SEAL BEAM WORK LIGHT	\$200.00
1120841	LED RIGHT HAND & LEFT HAND SEAL BEAM WORK LIGHTS	\$530.00
1101214	(2) CAB FORWARD FACING FLOOD LIGHTS WITH LIGHT BAR	\$415.00
1101215	(2) CAB FORWARD FACING FLOOD LIGHTS WITHOUT LIGHT BAR	\$690.00
1114404	(2) CAB FORWARD FACING LED FLOOD LIGHTS WITH LIGHT BAR	\$1,070.00
1114405	(2) CAB FORWARD FACING LED FLOOD LIGHTS WITHOUT LIGHT BAR	\$1,385.00
1101273	LED STOP/TAIL/TURN <b>NOT COMPATIBLE WITH LIGHT PACKAGES 3 &amp; 4</b>	\$340.00
1101314	<u>PACKAGE 1:</u> ONE BEACON W/ GUARD	\$780.00
1101315	<u>PACKAGE 2:</u> TWO BEACONS W/ GUARDS	\$1,305.00
1101316	<u>PACKAGE 3:</u> PACKAGE 2 + FOUR ROOF MOUNTED SWEEP FLASHERS	\$1,845.00
1101317	<u>PACKAGE 4:</u> PACKAGE 3 + FRONT ID LIGHTS AND ARROWSTICK	\$2,915.00
1101318	<u>PACKAGE 5:</u> ONE LED STROBE W/ GUARD	\$935.00
1101319	<u>PACKAGE 6:</u> TWO LED STROBES W/ GUARD	\$1,635.00
1101320	<u>PACKAGE 7:</u> PACKAGE 6 + FOUR ROOF MOUNTED SWEEP FLASHERS <b>LED STOP/TAIL/TURN MUST BE ORDERED WITH THIS PACKAGE</b>	\$2,190.00
1101321	<u>PACKAGE 8:</u> PACKAGE 7 + LED FRONT ID LIGHTS AND REAR LED ARROWSTICK <b>LED STOP/TAIL/TURN MUST BE ORDERED WITH THIS PACKAGE</b>	\$3,635.00
1101322	<u>PACKAGE 9:</u> REAR LIGHT MOUNTING RAIL ONLY	\$645.00
1101323	<u>PACKAGE 10:</u> FRONT LIGHT MOUNTING RAIL ONLY	\$645.00
1101324	<u>PACKAGE 11:</u> REAR LIGHT MOUNTING RAIL AND WIRE/MOUNT/GUARD FOR 1 LIGHT	\$710.00
1101325	<u>PACKAGE 12:</u> REAR LIGHT MOUNTING RAIL AND WIRE/MOUNT/GUARD FOR 2 LIGHTS	\$1,190.00
1101326	<u>PACKAGE 13:</u> LED ARROWSTICK (ONLY)	\$1,590.00
1105084	<u>PACKAGE 14:</u> LED ARROWSTICK (USE WITH PACKAGE'S 1, 2, 3, 5, 6, 7)	\$1,590.00
<b>-----PELICAN OPTIONS-----</b>		
1042010	WATER FILL HOSE QUICK DISCONNECT	\$505.00
1087540	LICENSE PLATE HOLDER - FRONT & REAR	\$200.00
1087541	LOCKING ENGINE COMPARTMENT	\$215.00
1087605	CARBIDE DIRT SHOES	\$1,060.00

MODOT Options NP

1087981	RED LOGO/SWOOSH	N/C
1087982	WHITE LOGO/SWOOSH	N/C
1122929	SHIP DECALS AND SWOOSH LOOSE IN HOPPER	N/C
1087995	25' WATER FILL HOSE (ILO 16' 8")	\$190.00
1097387	GREASABLE DIRT SHOES	\$85.00
1121071	SLIDING REAR WINDOW	\$870.00
1099915	STEEL RIGHT HAND DOOR W/ SLIDING WINDOW	\$1,785.00
1099916	STEEL LEFT HAND DOOR W/ SLIDING WINDOW	\$1,785.00
1100256	RADIO INSTALL PACKAGE W/O RADIO	\$365.00
1101017	LEFT HAND AND RIGHT HAND "WEST COAST" STYLE MIRRORS HEATED & MOTORIZED. (DOES NOT HEAT OR MOTORIZED HOPPER CONVEX MIRRORS)	\$1,225.00
1101065	HEAVY DUTY DUAL LIMB GUARDS	\$2,135.00
1099918	HEAVY DUTY LIMB GUARD RIGHT HAND ONLY	\$1,175.00



# ELGIN®

Subsidiary of Federal Signal Corporation

## Pelican®





# PELICAN® - LEGENDARY, DEPENDABLE PERFORMANCE.

To assure that the legendary Elgin Pelican continues to meet the needs of its customers and the industry, Elgin Sweeper raised the bar again and set a new benchmark for the industry standard. Based on a design that has been continually improved since 1914, the newest Pelican model combines maneuverability, economy, serviceability, and single-lane dumping with a sweep system that easily handles heavy, compacted dirt and bulky debris, as well as smaller particles found in the street. If you need an all-around sweeper with incredible digging power the Pelican is the perfect solution.

- Isolation-mounted cab for cleaner, quieter, more comfortable operation
- Improved 360° visibility
- Incredible ease of operation
- Superior durability, stability, and maneuverability
- Easy access for service and maintenance

Customized with your choice of options, the Pelican is a durable, reliable answer to your sweeper needs.



## APPLICATION SOLUTIONS

*Elgin Sweeper doesn't offer just one sweeping technology – we take an application-based approach to solving our customers sweeping needs. Our team works with each customer to ensure that you get a machine that fits your specifications, with the right chassis, engine configuration, fuel requirements and options.*

## POWERFUL SUPPORT

*Elgin Sweepers are built for clean, backed for life. Throughout the life of the sweeper, we offer training to your team on proper use and maintenance. We have a world-wide network of experienced dealers with factory trained technicians and a local stock of OEM parts and accessories, to ensure total customer peace of mind.*

## UNMATCHED QUALITY

*The Pelican has roots dating back to 1914 and has been continuously improved in design and production. Elgin sweepers are manufactured in an ISO:9001 certified manufacturing plant. Products are painted prior to assembly and quality tested. Elgin Pelicans are proudly assembled in the U.S.A. using only the finest materials.*





### UNIQUE SINGLE-ENGINE THREE-WHEEL DESIGN

The durable purpose-built chassis features a compact frame to maximize maneuverability and position the load low and between front wheels for stability. The high steering angle and tight turning radius allow sweeping extremely close to obstacles and following curb lines.

### POWERFUL BROOM SYSTEM

Hydraulically-driven free-floating side and main brooms work as a system to sweep material from the curb and street into the debris hopper. Side brooms protrude up to 13 in (330 mm) beyond the tire to capture more curb debris. The large main broom features variable-speed and down-pressure to adapt to changing conditions and follow road contours.

### NO-JAM CONVEYOR

No-Jam Conveyor: The Pelican's standard No-Jam chevron belt conveyor features angled molded-in full width cleats that carry more large debris as well as small fines efficiently into the hopper. The chevron belt provides improved hopper loading, better belt tracking, superior debris pick-up, reduced sticking and quieter operation than other belts. Material loads to the front and center first to allow maximum use of the hopper capacity.

### 360° VISIBILITY AND OPERATOR ERGONOMICS

The Pelican's isolation-mounted cab provides a clean, quiet, and comfortable environment for the operator. Filtered fresh air conditioning and heater/defroster come standard. Large windows, see-through doors, and full-width windshield allow for 360° degree visibility.

### EASY MAINTENANCE

Access to service points is simple with most accessible from ground-level. O-ring face seal hydraulic fittings are used and the electrical system features snap-together connections and color-coded wires for quick identification. The unit is equipped with a combination of in-cab and site gauges to monitor fluid levels.

### ECOINFUSED™ TECHNOLOGY

Elgin Sweeper has made advancing the use of cleaner, safer, and more efficient technologies for sweeping roads and streets a priority, with innovations that provide the powerful performance, fuel economy and overall value our municipal and contractor customers demand. Today's environmentally efficient Pelican is designed with exclusive EcoInfused Technology, representing years of unmatched innovation and success combining the science of horsepower management with the ability to do more with less.





# DURABLE, RELIABLE, AND EASY TO USE



## DURABLE, PURPOSE-BUILT CHASSIS

The Pelican's heavy-duty construction and compact frame ensures a tight turning radius and years of reliable, low-maintenance operation. A balanced design provides stable sweeping and dumping. The hopper load is positioned low between the two front wheels for stability and safety. The axle support and hopper lift system are integral parts of the chassis.

## OUTSTANDING MANEUVERABILITY

The Pelican's high steering angle and tight turning radius allows for quick turns, sweeping extremely close to obstacles and following curbs without climbing or scuffing tires. The dual-tire guide wheel increases stability and steering traction.

## EFFICIENT, COMFORTABLE CAB

The clean, quiet and spacious isolation-mounted cab features large windows, wide see-through doors and a full-width windshield for 360° visibility. The center console is easily accessed from both left and right driving positions. Fingertip controls include illuminated and graphically identified gauges and rocker switches.

## REAR SUSPENSION

Swing-arm suspension with twin parallel heavy-duty shock absorbing spring coils and an integrated single coil rubber spring assist provide effective suspension dampening through the entire range of travel. The design enhances ride quality and comfort in the cab while reducing stress on the sweeper frame – especially when operating in pothole conditions or on rough, uneven roads.

## SINGLE ENGINE POWERED

The Pelican is powered by the John Deere 4045T 4.5L, 4-cylinder turbocharged diesel engine. The engine is capable of operating on bio-diesel up to B20.

## LOW-MAINTENANCE DRIVE SYSTEM

With a unique wheel motor design for outstanding power and minimal maintenance, steep grades are no problem. Integrated sensors precisely measure road speed and adjust power requirements according to the load.

## HEAVY-DUTY BRAKE SYSTEM

The Pelican features twin-caliper (ea), power disc brakes and a dynamic braking design that significantly reduces wear on service brakes. All brake components are easy to access and economical to maintain.

## HYDRAULIC SWEEP SYSTEM

Controlled by engine RPM and operated independently of direction and ground speed, the Pelican's broom speed provides digging power at slow or zero ground speeds. A foot pedal controls speed and sweeper direction through the hydrostatic transmission.





# SUPERIOR MECHANICAL SWEEPER DESIGN



## MAIN BROOM

The 35 in x 66 in (889 mm x 1676 mm) hydraulically driven polypropylene main broom features variable speed (variable with engine RPM) for optimal sweeping in changing conditions. To protect the broom mechanism, the broom raises automatically when the sweeper is reversed and is returned to its sweep position and previously set down pressure when a forward direction is resumed.

## SIDE BROOM

Hydraulically driven side brooms are rugged construction, 36 in (914 mm) in diameter and protrude up to 13 in (330 mm) beyond the outside of the tire while sweeping to capture more gutter debris.

## NO-JAM DEBRIS CONVEYOR

The standard conveyor system features a chevron belt with angled molded-in full width cleats that moves material to the center of the belt for less spill over, and throws it to the center of the hopper for improved hopper fill without jamming. New poly/nylon high-strength belt material on the conveyor delivers long wear for maximum uptime. An optional built-in washdown provides quick and easy clean-up.

## VARIABLE HEIGHT FRONT DUMP HOPPER

The Pelican's front dump hopper is ideal for single-lane dumping, which ensures minimal traffic interruption. The hopper can be dumped from ground level up to 9 ft 6 in (2895 mm) high. The load can be easily observed from the cab by lifting and rolling the hopper. The hopper's 3.5 cu yd (2.7 cu m), 9,000 lb (4082 kg) capacity provides maximum sweep time. For easy inspection, the hopper rolls out and rests on the ground.



## CORROSION-RESISTANT WATER SYSTEM

A corrosion-resistant polyethylene water tank supplies the dust suppression system with 220 gallons (833 L) of water. The exclusive Elgin water pump can run dry without damaging the machine's water system. For convenience and ease of maintenance, a water-level gauge is visible from the cab.

## EASE OF MAINTENANCE

Easy servicing lowers ownership costs and increases sweeper usage. O-ring face seal hydraulic fittings assure leak-free connections, while the electrical system's weatherproof snap-together connectors and stamped color-coded wires allow quick identification. To ensure easy monitoring of fluid levels, the hydraulic tank directly behind the cab features a sight glass inspection tube.

## MEMORY SWEEP®

Elgin's exclusive Memory Sweep feature allows the operator to resume all previous sweeper settings, even broom tilt if so equipped, with one touch control. This feature enhances operator productivity and reduces operator fatigue. Memory Sweep incorporates a multi-screen display that indicates engine hours and water tank level as well as system diagnostics. This screen also displays optional features such as broom tilt angle and broom hours.

**MEMORY  
SWEEP**





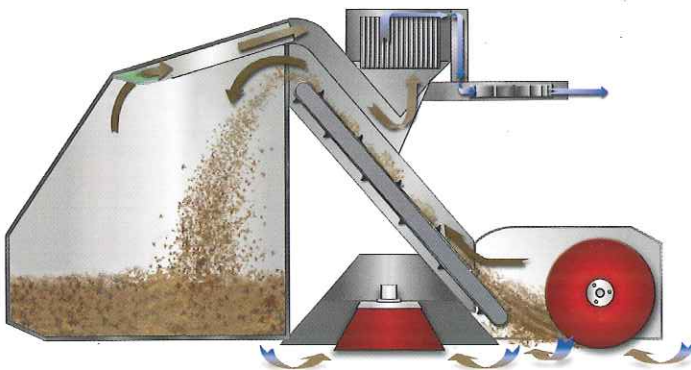
## WATERLESS PELICAN



The Pelican with optional dry dust control maintains all the popular features and sweeping performance that have made the Pelican the best selling three-wheel sweeper—without the use of water for dust suppression. This means increased pick-up of fine particles over traditional, wet dust control sweepers, proven reliable year-round sweeping and significant water conservation.

### DRY DUST CONTROL SYSTEM

The Pelican with dry dust control features a patented system that includes a dust skirting system, dust separator in the hopper, and a dust control fan with a maintenance-free filter, working together to control fugitive dust without the use of spray water. The Pelican's waterless dust control system means operators sweep more and spend less time filling tanks enhancing productivity. Without water, mud doesn't build up on components, reducing clean-up time at the end of the shift. Since there is no water, sweeping in freezing weather conditions is possible which helps meet the growing demand for quick pick-up of winter-time road sand, salt, and cinders. Perhaps the most important benefits are those for the environment including a smaller water footprint, as well as reduced road silt that can be left as a film from waterbased dust control sweepers.



### PATENTED FILTRATION SYSTEM

The powerful vacuum system on the sweeper creates an air stream through the debris hopper, conveyor, and skirted areas. The inward rushing air carries the airborne dust into the debris hopper where it's allowed to settle out with the rest of the swept debris. A majority of the fugitive dust falls into the hopper with only a fraction of the dust making it to the filter. When the filter becomes loaded, it can be mechanically cleaned with an on-board cleaning system so sweeping can continue. A long life, low maintenance, dry filter element is installed between the debris hopper and the fan.

\*Industrial Pelican Option Available - consult factory for details.



## OPTIONAL ENHANCEMENTS



### LIGHTING PACKAGES

A variety of lighting packages are available for the Pelican to enhance safety and visibility.



### LIFELINER® HOPPER SYSTEM

The LifeLiner® system is a specially designed hopper liner and finish system that greatly improves the life, durability, and functionality of a sweeper hopper.



### LIMB GUARD

Heavy-duty guards surround cab and protect sweeper by guiding low-hanging tree limbs up and over the Pelican. Available in right hand, left hand, or dual configuration.

## ADDITIONAL OPTIONS

- Auto-Lube automatic lubrication system
- Conveyor, lower roller washout
- Various dirt shoe offerings
- Air suspension seat(s)
- Cold weather start aid
- Heated/remote mirrors
- Engine pre-cleaner
- In-cab side broom tilt
- Lower roller deflector

## SPECIFICATIONS:

### SWEEPING PATH

- One side broom 8 ft (2438 mm)
- Two side brooms 10 ft (3048 mm)

### TRAVEL SPEED

20 mph (32 Km/h)

### ENGINE (make and type)

John Deere 4045T  
Horsepower 74 hp (55 kW) @ 2,400 RPM  
Tier 4F low emission diesel  
\*Tier 3 model dependant

### HOPPER CAPACITY

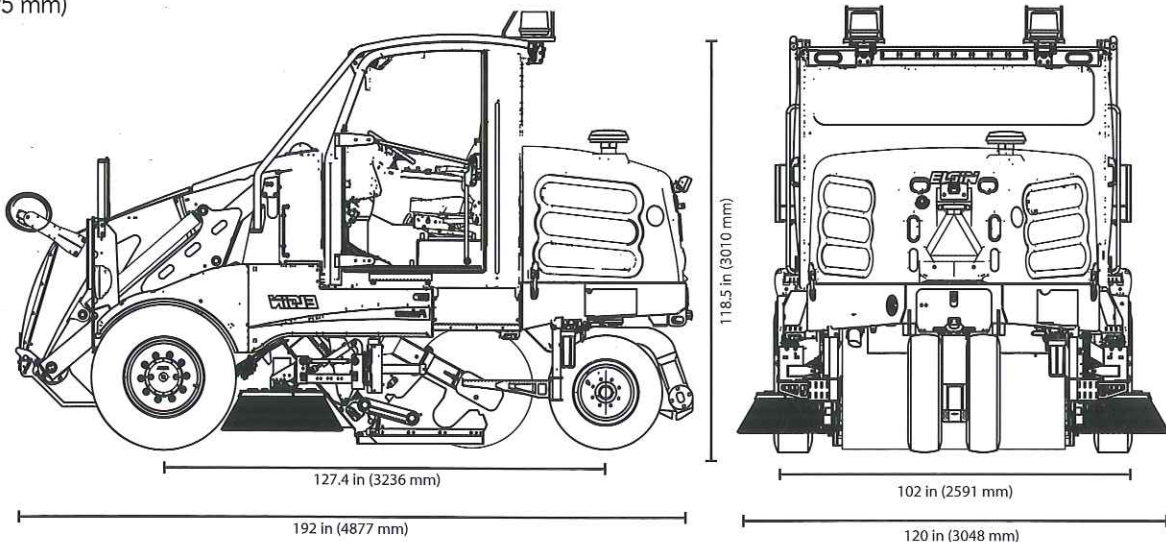
Volumetric Capacity: 3.5 cu yds (2.7 cu m)

### WATER SPRAY SYSTEM

Tank capacity: 220 gal. (833 L)

### HOPPER DUMPING

Maximum dump height: 9 ft 6 in (2895 mm)







## ELGIN SWEEPER IS YOUR PARTNER...

### IN THE PLANNING

Instead of one-size-fits-all solutions, we'll work with you to select the sweeping technology that fits your specific needs.



### IN THE STREETS

We're here to help you maintain your Elgin and train your operators to ensure the job is done right.



### INTO THE FUTURE

Our dealers don't just sell you an Elgin; they're available to answer your questions and provide service for the life of the machine.



## WARRANTY

Elgin Sweeper Company backs the Pelican sweeper with a one-year limited warranty. The Pelican is warranted against defects in material or workmanship for a period of 12 months from the date of delivery to the original purchaser. Optional extended warranty packages are available. Consult your Elgin dealer for complete warranty information. The ESCO/FSM warranty shall not apply to major components or trade accessories such as, but not limited to, trucks, engines, hydraulic pumps and motors, tires, and batteries that have a separate warranty by the original manufacturer.

Your Local Elgin Dealer Is:



[elginsweeper.com](http://elginsweeper.com)

1300 W. Bartlett Road • Elgin, IL 60120 U.S.A.

(847) 741-5370 Phone • (847) 742-3035 Fax

Specifications subject to change without notice.  
Some photos shown with optional equipment.  
Elgin® Pelican® Memory Sweep® and LifeLiner® are registered trademarks of Elgin Sweeper Company.  
Covered under US Patent #7,281, 296 B2 & 6,584,157 B2, and Canadian Patent #CA2475362  
Effective 8/15 P/N 0705031-G  
Printed in U.S.A. ©2015 Elgin Sweeper Company



# Pelican® Conveyor Transition Enlargement Quick Reference Guide



## What?

- Enlarged conveyor throat opening

## Why?

- Continuous product improvement - better sweep performance in leaves, pickup of bottles, cans and other light debris

## How?

- Improvement to the conveyor throat transition by enlarging the opening 52% using a slopping rubber ceiling; eliminating the choke point at the conveyor entry by removing the steel transition

## Why it Matters?

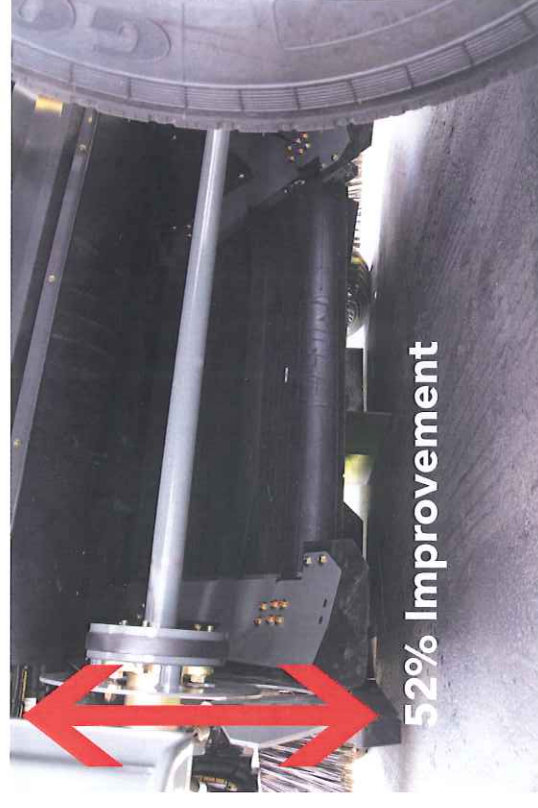
- Improvement in sweep performance in lighter debris types
- Customer driven design improvement
- Field tested and customer approved

## Key Features:

- Bolt on rubber transition on conveyor assembly increases throat opening in comparison to previous steel transition
- FSO kit available for field unit updates



Before



After

# Pelican® EcoInfused™ Tier 4F Quick Reference Guide



## What?

- EPA Tier 4 Final & CARB compliant Pelican, with anti-stall & horsepower management system, featuring EcoInfused™ technology

## Why?

- Retain legacy wheelbase of 127.4" for maximum maneuverability
- Innovative & cost-effective solution for compliance
- Minimize aftertreatment complexity

## How?

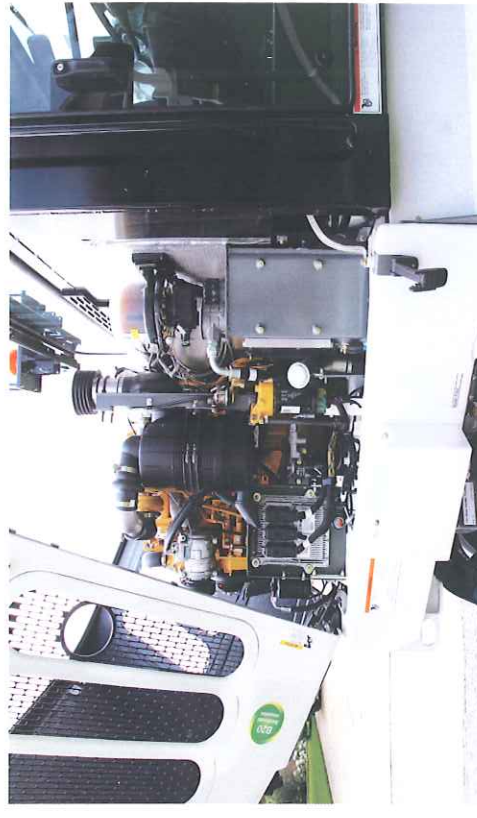
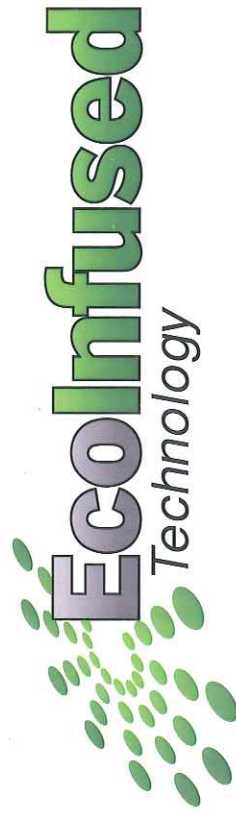
- John Deere engine, combined with horsepower management system, manages ground speed based on the engine RPM; sweep power will always be maintained

## Why it Matters?

- Proven Technology
- Promote leadership role in the market with Tier 4F; several years of experience with similar emission systems
- Changing the horsepower orthodoxy; maximize usage of existing horsepower

## Key Features:

- Horsepower management system - automatically matches ground speed to available horsepower
- Reduced noise pollution – lower cooling fan noise
- EcoInfused Technology – environmentally friendly





## Sweep System-Power

### Engine

Make John Deere 4045TF150  
Type 4 cylinder diesel  
Displacement 276 cu in (4.5 L)  
Bore 4.19 in (106.43 mm)  
Stroke 5.0 in (127 mm)  
Compression ratio 19:1  
Horsepower 74 HP (55 kw) @ 2,200 RPM  
Torque 195 ft-lbs (265 Nm) @ 1,700 RPM  
Fuel tank capacity 35 gal (132.5 L)

## Sweep System-Components

### General Specifications

Wheel base 127.4 in (3236 mm)  
Overall length 16 ft (4877 mm)  
Height with cab 9 ft 10.5 in (3010 mm)  
Width outside tires 8 ft 6 in (2591 mm)  
Curb to curb turning radius 15 ft (4572 mm)

### Sweeping path:

One side broom 8 ft (2438 mm)  
Two side brooms 10 ft (3048 mm)

### Weight:

One side broom 13,590 lbs (6170 kg)  
Two side brooms 14,290 lbs (6482 kg)

Travel speed Up to 20 mph (32 Km/h)

Hydrostatic drive Single foot pedal for forward/reverse

### Hydraulic Service Brakes

### Tires:

Front 11R22.5 load range H (2)  
Rear 10R17.5 load range H (2)

### Wheels:

Front Steel disk type  
Rear Dual steel disk type mounted on alloy steel axle  
Sprung guide wheel

### Cab

Type ISO mounted

Structural steel tube frame  
Sealed w/ 100% filtered air intake, sound insulated

Doors Full view glass

Opening From rear  
Dust protection Rubber gasket sealed

Windows Safety glass with tinted windshield and tinted sun visors, 360° visibility  
Tinted upper glass

Dome light

Heater pressurizer with defroster Multi-vent air dispurment

Windshield wipers 2 speed intermittent, with washers

Mirrors Inside (1); outside, dual west coast with convex inserts and (2) 10 in oval

Seat(s) 21 in wide deluxe foam cushion with belt(s)

Steering Tilt and telescoping steering column

### Standard Accessories

Full flow oil filter, mechanical governor, dual safety element dry-type air cleaner with in-cab restriction indicator, fuel filter, counterbalanced, wet sleeve

### Instrumentation

Panel Full vision, illuminated

Gauges Speedometer/odometer, tachometer, engine hour meter, engine temperature, oil pressure, voltmeter, fuel, hydraulic oil temperature, water fill, and on-board diagnostics.

### Main Broom

Diameter 35 in (889 mm)

Length 66 in (1676 mm)

Type Prefab. disposable, polypropylene double wrapped at both ends

Core Steel reversible

Digging pressure & wear control in cab  
Hydraulic float

Lift control In-cab hydraulic raise and lower

Drive Hydraulic motor

Mounting Hydraulic cylinder suspended

Speed Variable with engine RPM

### Side Broom

Type Vertical digger

Diameter 36 in (914 mm)

Disc construction Steel plate

Speed Variable with engine RPM

Flexibility In-cab positioning hydraulic float

Drive Hydraulic motor

Mounting Free floating

Adjustment In/out (recoil spring), up/down

Digging pressure/wear control

Hydraulic, in cab, pressure sensing

Broom material Tempered steel wire

### Conveyor

Type Chevron cleat reinforced rubber belt

Speed Variable with engine RPM

Flexibility 9 in (229 mm) oscillation for large object passage

Drive Hydraulic motor, chain and sprocket drive

Bearings Sealed self-aligning, re-lube

### Debris Hopper

Capacity volumetric 3.6 yd<sup>3</sup> (2.8 m<sup>3</sup>)

Material volume 3.5 yd<sup>3</sup> (2.6 m<sup>3</sup>)

Hopper lift and dump control Electro-hydraulic in-cab

Maximum dump height Up to 9 ft 6 in (2895 mm)

## Electrical System

Wires Hot stamped and color coded wiring, alternator/regulator-unitized, 120 ampere  
Battery 12 volt, group 31, 925 CCA, 180 min. reserve.

Lights Halogen sealed multiple beam headlights, combination stop and tail lights, adjustable side broom lights, directional signals with hazard switch. Safety horn, electronic back up alarm, sweep flashers.

### Debris Hopper (cont.)

Time to tilt hopper 17 sec

Time to retract to working position 21 sec

Design lift capacity 9,000 lbs (4,080 kg)

Frontal dumping Standard

### Hydraulic System

Hydrostatic drive Electronically controlled

Variable displacement pump

Variable displacement motor

Fittings 'O' ring face seal type

Reservoir capacity 33 gal (106 L)

Reservoir level Externally readable

Inlet strainer 100 mesh

Filter Return 10 micron absolute, full flow

Filter restriction indicator In cab

Breather/fill cap 10 micron

### Water Spray System

Tank construction Polyethylene

Tank capacity 220 gal (832 L)

Fill hose 16 ft 8 in (5080 mm) with hydrant coupling

Wash down Integral cascade hopper/conveyor wash

Pump Diagram with run dry capability

Spray nozzles Atomizing, adjacent to each broom

Controls On/off, volume high/low in-cab

Filter Non-corrosive housing, 100 mesh screen  
Cleanable anti-siphon fill standard.

### Brake System

Service Multi caliper disc type

Hydraulically applied

Power assisted

Park Wet disc multi pack with spring applied hydraulically released push/pull activation

Interlock to prevent drive through if applied

**Ecolnfused Technology®** Combining science and innovation to produce more environmentally efficient products.

## Available Enhancements

- Dual controls - right and left side brooms, seats, and operator controls for operation from either side
- Remote adjustment
- Heated mirrors
- Side broom tilt
- Automatic lubrication system
- Lifeline® hopper liner
- Beacon light with protector
- Air conditioner in-cab
- Strobe light with protector
- Electric side broom tilt indicator
- Broom hours and mileage recorder
- Diesel cold weather start aid
- Limb guards
- Extended warranty
- Sliding rear window
- Air suspension seat(s)
- Conveyor, lower roller washout

## Finish

Undercarriage:  
Grey powder coat  
Body:  
High gloss powder coat  
Custom colors available

## Chassis

Chassis is fully welded; formed channel and boxed tube style with jack points

## Warranty

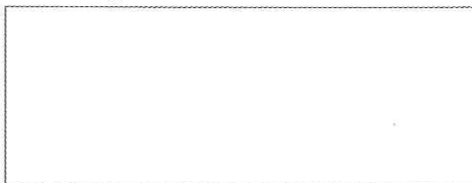
### Sweeper

1 year parts and labor

### Engine

Consult factory

Your Elgin Dealer is:



Elgin Sweeper Company  
1300 W. Bartlett Rd.  
Elgin, Illinois, U.S.A. 60120-7529  
847-741-5370 Phone  
847-742-3035 Fax  
www.elginsweeper.com

© 2013 Elgin Sweeper Company. Elgin® Pelican® and Ecolnfused Technology® are registered trademarks of Federal Signal Corporation. Federal Signal Corporation is listed on the NYSE by the symbol FSS

Effective 6/13  
Specifications subject to change without notice.  
P/N 0705393



# Pelican® Rear Suspension Quick Reference Guide



## What?

- Single-sided swing-arm rear suspension

## Why?

- Superior dampening and response to ground variation during operation
- Minimize frame fatigue

## How?

- Single-sided swing-arm suspension incorporates dual spring coils, shock absorber, and an Aeon® rubber spring assist to prevent “hard stop” of suspension at jounce limit – providing improved ride quality

## Why it Matters?

- Proven suspension, used in all-terrain vehicles and motorcycles
- ESG tested - reduces road induced vibration by 50%
- Better ride quality improves operator ergonomics while protecting frame mounted equipment from vibration
- Maximum loading on the suspension improved by 31% and results in 3 inches (19% improvement) of effective suspension travel from rebound to jounce limits
- Suspension castor setup and wheel scrub remained as they were for ease-of-steering

## Key Features:

- Swing-arm type suspension
- Parallel heavy duty twin spring coils
- Shock absorber
- Single convolution Aeon rubber spring prevents “hard stop” of suspension
- Design allows for ease of tire accessibility

