



**ENVIRONMENTAL
PRODUCTS GROUP**



**ELGIN CROSSWIND FAS20-EQU 18.0 ITEM
385 SPECIFICATION**

QUANTITY	PART NUMBER	MODEL DESCRIPTION	
1	1120890	2021 CROSSWIND - DUAL - PETERBILT	
		Equipped with MemorySweep® ; Tier 4F emissions, John Deere 4045, Turbocharged diesel engine, 8.0 cu. Yd. Hopper, right and left side brooms, sweeper is powder coated from powder coatings chart 2003/N with powder coated gray undercarriage and includes the standard features listed below.	
1	1120412	2021 PETERBILT DUAL STEER MODEL 220	
1	SPECIAL	PETERBILT CHASSIS - CHASSIS ALTERATIONS	
1	4820001	PAINT CAB STANDARD WHITE	
1	4810001	PAINT SWEEPER STANDARD WHITE	
1	0702253	CROSSWIND SHARED POWER 74HP PARTS MANUAL	
1	0701674	CROSSWIND SHARED POWER 74HP OPERATORS MANUAL	
1	0730166	BROOM MEASUREMENT RULER	
1	1032481	16' 8" WATER FILL HOSE	
1	0701705	MACHINE DELIVERY PACKET	
1	0702020	ELGIN SAFETY MANUAL	
		Patent-pending Shared Power system	Hopper rear door, hydraulically opened/closed and
		Alternator, 95 amp	locked/unlocked with external manual controls
		Auto Shutdown, Aux. Engine	Hose, hydrant fill, 16'8" (5080 mm) with coupling
		Backup Alarm, electric	LED Clearance Lights
		Blower, HARDOX®500 steel with linatex lined housing	Lights; rear clearance and rear identification
		Brooms, hydraulic rotation	Manuals, operator and parts
		Brooms, Dual	Mirrors, West Coast type with 8"

		Camera, rear mounted	convex inserts, one each side
		functions, with full	14" (355 mm) outside diameter pressure hose,
		gauge package including tachometer, engine	12-3/4" (324mm) inside diameter
		hour meter, oil pressure indicator, coolant	suction hose with quick disconnect on suctions side
		temperature, voltmeter and fuel lever indicator,	Water system; one (1) rocker switch with HI / LOW setting,
		water level gauge and warning lights for hopper	with manual valves for water control
		"up", hopper rear door "open" and hopper "full",	Spray nozzles, sixteen (16), seven (7) in the
		with auxiliary engine, RPM control, side broom down	pick-up head, three (3) in the suction
		pressure controls and automotive style blade fuses	nozzle, three (3) at each side broom
		Doors, access fiberglass doors provide easy	Side Broom Outer Position Stop
		service and maintenance on auxiliary engine,	Trans Oil Cooler
		hydraulic and electrical system	Vacuum enhancer, external manually operated
		Electronic Actuated Throttle, sweep resume/sweep	Water tank, molded polyethylene, 240 gallons (907L)
		transport/reverse pick-up	Water pre-filter, hydrant fill hose
		Fuel Water Separator on Aux Engine	
1	1120875	***MEMORY SWEEP®	
1	1134407	AUTOMATIC FLOW BLOCKER	
1	1090150	RED LOGO/CROSSWIND	
1	1118356	2 1/2 LB. FIRE EXTINGUISHER	
1	FRT-124-010	FREIGHT - FLORIDA	



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2021 Peterbilt 220 DUAL steer chassis specification for Crosswind

AXLES:

Front - 12,000 lbs., with 12,000 lbs. (5,454 kg) taper leaf springs
Rear - 21,000 lbs., with 21,000 (9,545 kg) taper leaf springs.
Ratio - (7.17:1)
Gross Vehicle Weight Rated (GVWR) - 33,000 lbs. (15,000 kg)

BRAKES:

Service:

Type - Full air, WABCO EBS with Anti-Lock Brakes
Front - 15 in. x 5 in. (381 mm x 127 mm) drum
Rear - 16.5 in. x 7 in. (419 mm x 178 mm) drum
Compressor Capacity - 18.7 CFM
Air Dryer - WABCO SS1200 Plus Air Dryer w/ coalescing filter
Auto slack adjusters, front and rear

Parking:

Type - Spring set, air release

CHASSIS:

Manufacturer: Peterbilt
Model - Peterbilt 220, Euro 6, w/ Clear Rail Package
Frame:
Type - Rail, High Strength, 120,000 PSI, 1.4 M RBM
Size - 10.23 in. x 3.5 in. x 0.25 in. (260 mm x 90 mm x 6.35 mm)

DIMENSIONS: (with sweeper mounted)

Wheelbase - 156 in. (3962 mm)
Cab to axle - 145 in. (3683 mm) usable
Overall Length - 251 in. (6375 mm)
Overall Height - 110 in. (2794 mm) Top of cab
Overall Width - 96 in. (2438 mm)
Dumping Clearance Height - 236 in. (5994 mm)
Turning Radius - 22ft. 6 in. (6858 mm) curb-to-curb
Travel Speed - 67 MPH

ELECTRICAL SYSTEM:

Voltage - 12V
Alternator - 160 Amp.
Battery - Two (2) 12 Volt (Total 1460 CCA) Maintenance Free

ENGINE:

Manufacturer: PACCAR

WARNING LIGHTS and CHIMES:

ABS warning light
Air Cleaner Restriction Indicator - remote mounted
Battery low light
Low fuel level warning light
Cab latch light
Engine cover latch light
Engine control system warning light and buzzer
Engine Stop light
Hazard warning flasher
High beam indicator light
Low air pressure warning light and buzzer
Low coolant level and overheating warning light and buzzer
Low oil pressure warning light and buzzer
Parking brake indicator light
Turn signal indicator lights
Transmission temperature warning light

SEATS:

RH - High back, air ride suspension, cloth covered
LH - High back, air ride suspension, cloth covered

DUAL STEERING:

Type - Full power hydraulic, Tilt column
Size - 18" diameter
RH OEM Complete Gauge Package
LH Complete Gauge Package

TRANSMISSION:

****Allison 3500RDS 6-speed automatic**

WHEELS:

Front & Rear - 22.5 in. x 8.25 in. (572 mm x 191 mm) stud pilot steel disc

TIRES:

Front & Rear - 11R 22.5
Load Range G (14 ply rating)

WARRANTY:

Basic Vehicle 12 months, unlimited miles, parts & labor
PX-7 engine 24 months, unlimited miles, parts & labor
Refer to Peterbilt Warranty policy for more information regarding major components, corrosion, cab and frame.

ADDITIONAL FEATURES INCLUDED:

Air Conditioner
Ash Tray
Auto Shutdown

Model – PX-7 6.7L
Cylinders - In-Line 6
Displacement - 402 cu.in. (6.7 L)
Horsepower - 220 @ 2400 RPM
Torque - 520 lb. ft. @ 1600 RPM
Oil Filter - Full-flow, spin on type
Oil Capacity - 18 qt. (17 L) with filter
Air Cleaner – 13” Single stage, dry type w/ safety element
Fuel Tank Capacity - 45 gal. (189 L)
Fuel Filter/Water Separator, spin on type
12 V Starter

EXHAUST: - EPA 2017 emissions with on-board diagnostics (OBD), diesel particulate filter (DPF), selective catalytic reduction (SCR), 8.4 gallon diesel emission fluid (DEF) tank and L.H. vertical tailpipe behind cab.

INSTRUMENTS:

RH instruments include; water temperature gauge, tachometer, odometer, trip odometer, hour meter, speedometer, fuel gauge, dual air pressure, DEF tank gauge, and Driver Performance Assistant (DPA) – helps with DPF and regeneration – and displays time, alarm clock, ambient temperature, turbo pressure, fuel economy, eco-performance, and service advisor.

LH instruments include; water temperature gauge, tachometer, odometer, speedometer, fuel gauge, dual air pressure, DEF tank gauge, and voltage gauge.

Grid heater (oil) – 350 W
Immersion (coolant) Type Pre-Heater, 1500 W
(1) Dash mounted cigar lighter
(1) Panel mounted 12 V power supply
Cruise control
Front Tow Pins
Intermittent speed wipers
Interior map light
Mirrors Motorized and heated west coast with 8. in. (203 mm) convex rectangle flat with integral convex
Particulate trap manual regen switch
Power windows
AM/FM, WB, USB and MP3 Radio
Transmission shift control – push button
Visors, sun Left and Right
Curved Tip Standpipe
Battery Disconnect Switch mounted on battery box
Viscous Type Fan Clutch
High Air Intake
Steel Bumper
Rear Wall Storage
Fog/Driving Lights
Daytime Running Lights
Dash mounted Map Pocket



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ELGIN®

Subsidiary of Federal Signal Corporation

Crosswind®



CROSSWIND® – RELIABLE, VERSATILE REGENERATIVE AIR SWEEPER

Searching for a reliable, versatile, regenerative air sweeper? Elgin® Sweeper Company has the answer. The Elgin Crosswind combines superior performance with a low-maintenance, simplified design. The wide sweeping path is suited for municipalities, contractors, airport applications and general maintenance sweeping. From the high performance sweep system to the user-friendly controls, the Crosswind has been designed and manufactured to the exacting quality standards that have made Elgin a leading sweeper manufacturer. Thanks to a worldwide factory-trained dealer network, you can be sure of complete satisfaction on delivery and far down the road.



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 truck, 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 Crosswind was introduced nearly 30 years ago 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 Crosswinds are proudly assembled in the U.S.A. using only the finest materials.

POWERFUL CLEANING SYSTEM

How well a street sweeper picks up material is determined by its overall design. The air conveyance, sweeping, dust suppression, and maintenance systems must work together as an integrated cleaning system to achieve maximum sweeping performance.



HIGHLY EFFICIENT AIR CONVEYANCE SYSTEM

Efficient air flow, including a superior vacuum source and air routing path, is at the heart of the Crosswind.

- High volume air flow at high velocity results in exceptional one-pass pickup while eliminating plugging that can occur in similar type sweepers.
- A nine-vane closed face turbine fan is powered by a turbo-charged diesel auxiliary engine for maximum airflow.
- A centrifugal dust separator minimizes pressure loss and maximizes sweep performance and fan life.



HIGH PRODUCTIVITY SWEEP SYSTEM

The sweep path picks up debris close to the curb and across a wide area.

- A 90 in. (2286 mm) wide pick-up head and dual hydraulically driven, 42 in. (1067 mm) side brooms provide a 12 ft. (3658 mm) wide sweep path.
- Work with brooms fully extended or add the optional full broom retract feature for powerful scrubbing action in front of the pick-up head.
- An optional center broom provides added digging power for compacted debris.
- A 12 ¾ in. (324 mm) diameter suction hose accepts large debris. Quick disconnect allows operator to inspect and clean hose and intake tube without raising hopper.
- The vacuum enhancer facilitates sweeping under light and bulky debris conditions.

ECOINFUSED® SHAREDPOWER TECHNOLOGY

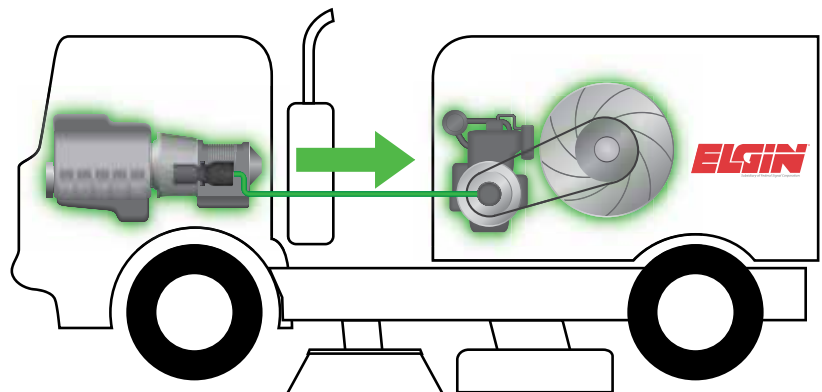
The Crosswind's patented shared power system is a Tier 4F compliant solution that delivers proven performance, increased fuel efficiency, reduced emissions and lower noise levels at engine-rated speeds.

- The system was developed to share chassis power when using a 74 hp auxiliary engine to ensure maintenance of outstanding sweep performance while providing a simple emission compliant solution that doesn't involve complex, higher maintenance, and expensive exhaust after treatment devices.
- Typically the chassis engine is underutilized while sweeping. EcoInfused SharedPower technology taps into that unused potential and allows power to be hydraulically transferred to and shared with the auxiliary engine.
- Power can also come from regenerative braking. Using a transmission mounted PTO, energy normally lost to vehicle momentum while sweeping on downhill grades or coasting can be reclaimed and immediately applied back into the sweeper system.



EcoInfused
Technology
SharedPower

To see an animation on how the SharedPower system works, scan the QR code or visit:
elginsweeper.com/Crosswind



THE ELGIN CROSSWIND



COMPACT DESIGN

The sweeper mounts on conventional or cab-over chassis with short wheelbases, enabling a tight turning radius for better reach in cul-de-sac sweeping, and greater maneuverability around tight corners. The standard auto pickup in reverse allows for quick change of sweeping locations.

HIGH-PERFORMANCE SWEEPER ENGINE

The heavy-duty John Deere 4045T diesel engine provides exceptional power and extended service life. Auto shut-down of engine functions comes standard. The latest EPA Tier 4F and CARB emission compliant packages are now standard.

HIGH CAPACITY/EFFICIENT LOADING

The 8 cu. yard (6 m³) capacity hopper provides extended sweeping time. Abrasion-resistant steel inlet deflector directs debris flow to the center of the hopper, ensuring even, efficient material loading for maximum capacity utilization. A traditional tilting hopper 50 degree dump angle and drop down hopper screens make the Crosswind easy to clean.



SUPERIOR DUST SUPPRESSION

Proper use of water is essential for dust suppression, sweeping performance and longevity of sweeper components providing protection from abrasive materials. Two heavy-duty water pumps, one for the pick-up head and suction hose and one for the side brooms are easy to access and capable of run-dry operation. The durable 240 gallon (908 l) polyethylene water tank is removable for service. Ample water is provided by 16 high-quality, agricultural-grade water nozzles (standard) all in easy to access locations. High/low selectable pump speeds allow for application dependent dust suppression.

UNIQUE TRAILING ARM SIDE BROOMS

Trailing arms provide special 4-way action to closely follow road contours, provide inward motion safety for obstacles, and maintain a consistent broom angle even as the broom starts to wear. Digging pressure is adjustable in-cab. Brooms can be extended outward for maximum sweep path. The optional full broom retract feature allows for scrubbing action directly in front of the pick-up head.



SIMPLE, EASY – ACCESS MAINTENANCE

The Crosswind is designed so that systems are accessible and easy to service. Large access doors allow for quick and easy inspection of the auxiliary engine, electrical, water and hydraulic systems without tilting the hopper. The engine oil and pneumatic pressure can be checked, hydraulic filter changes and the fan bearings greased. The hydraulic system with o-ring seal fittings is designed for long life and leak-free operation. Heavy-duty, waterproof electrical connectors and color-coded wires have stamped identification for quick location during trouble shooting.



SUPERIOR REGENERATIVE AIR SWEEPER DESIGN

POWERFUL BLOWER

The Crosswind features a high velocity, 9-vane closed face turbine fan with a rubber-lined housing for extended life. The vanes are constructed from Hardox® brand steel for durability. A secure, multiple V-groove power belt adjusts without repositioning engine.



ERGONOMIC CONTROLS

The Crosswind's centrally-mounted console features rocker switches for all sweep functions and complete gauges (auxiliary engine coolant temperature, oil pressure, charging voltage, fuel level, engine hour meter, engine RPM) for quick review of system conditions. Side broom down pressure controls and automotive-style fuses further enhance ease of operation and maintenance. A back up camera and alarm are standard for increased operational awareness and safety.

MEMORY SWEEP®

Elgin's optional Memory Sweep® system allows the operator to resume all previous sweep settings, even broom tilt (if so equipped), with one touch control. This feature enhances productivity and reduces fatigue. Memory Sweep incorporates a multi-screen display that indicates system diagnostics as well as optional features such as broom tilt angle, vacuum enhancer position, and broom hours.



APPLICATION-SPECIFIC CONFIGURATIONS

CROSSWIND CNG POWERED

Environmentally Sound, Clean Burning Alternative Fuel Option

The Crosswind is available powered by compressed natural gas (CNG). The alternative fueled dual engine Crosswind is mounted on a commercial conventional or cab-over chassis powered by a Cummins Westport ISL-G engine. The sweeper is powered by a General Motors 5.7 L V8 engine which allows for excellent fuel economy with an impressive power to weight ratio. The engines share four 3600 psi composite reinforced cylinder fuel tanks with a 60 DGE capacity.



CROSSWIND FSX®

Top Performance On and Off the Runway

If you need top performance for airport applications, the Crosswind FSX is for you. With a unique pickup head, at 15 mph (24 km/h) the FSX can sweep 950,000 sq. ft. (88,255 sq. m) of runway per hour, and sweeps tarmac, gate areas and access roadways at slower speeds.

Special options are available including: poly side brooms, a high-performance cast aluminum side air blast nozzle, pick-up head casters, and a heavy duty magnet mounted to front bumper.

CROSSWIND GRS

Glycol Recovery Sweeper

The Crosswind GRS is ideal for sweeping debris and removing environmentally damaging glycol and other deicing fluid runoff on runways and gate locations. The GRS does not require any modifications when switching from sweeping debris to glycol removal in snow and ice conditions.

The system features a blower enhanced with a flow blocker system to allow for quick glycol unloading. Specially designed baffles in the hopper help reduce liquid slosh without impeding sweeping or dumping operations. The hopper capacity is 750 gal (2839 L).

CROSSWIND SPECIALTY TRACK SWEEPER

Racetrack Cleaning and Drying

The Crosswind Specialty Track Sweeper was engineered with input from racetrack officials. It includes features for racetrack sweeping and maintenance, including a hydraulically-driven, plastic bristle side broom on one side and a high-performance cast aluminum air blast nozzle on the other. The Track Sweeper can clean a wide, 117 in (2972 mm) path with its side broom and pickup head. Its side air blast nozzle can blow debris off the track for distances up to 50 ft (15.24 m).

The Track Sweeper quickly and efficiently removes standing water, rubber, and debris from in and around the pit area for the overall safety of the racers, their crews, and spectators. It features an internal dust-suppression system to reduce airborne dust and prevent water from being applied directly to the racing surface.



OPTIONAL ENHANCEMENTS



WANDERING HOSE

The versatile, hydraulic-assist hose gets into hard to reach places and is effective in catch basin cleaning. It handles multiple tubes for especially deep catch basin cleaning.



LIFELINER® HOPPER SYSTEM

The LifeLiner hopper liner and finish system greatly improves the life, durability, and dumping functionality of a sweeper hopper. It is backed by a lifetime warranty*.



STAINLESS STEEL HOPPER SYSTEM

This complete hopper body is constructed entirely of 304 grade stainless steel to provide maximum service life, even in the most corrosive applications. It is backed by a lifetime warranty*.

ADDITIONAL OPTIONS:

- Center broom
- Memory Sweep®
- Side broom tilt
- High pressure washdown/ high pressure pump
- Front spray bar
- Hopper deluge
- Auxiliary hydraulic pump
- PM-10 compliant
- Full side broom retract
- Variable speed side brooms
- Full-width magnet
- Rotating beacon
- Auxiliary lighting packages
- In-cab control for vacuum enhancer
- Broom hour meter
- R or L inspection door
- Additional water: 140 gal. (530L), 280 gal. (1060L), 360 gal. (1363L)
- FlowBlocker™
- Enhanced water control

SPECIFICATIONS:

SWEEP SYSTEM

High performance regenerative air
Sweeping path: 12 ft. (3658 mm)
Side brooms: 42 in. (1067 mm)

PICK-UP HEAD

High flow with pressure and vacuum chamber
2700 sq. in. (17,450 sq. cm.)
Pressure hose diameter:
14 in. (356 mm)
Suction hose diameter:
12 3/4 in. (324 mm)

AUXILIARY ENGINE

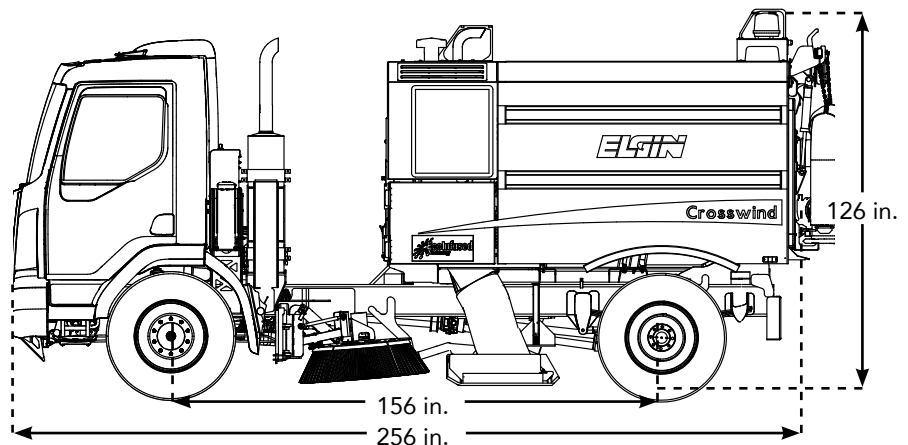
John Deere 4045T
Tier 4F low emission diesel
*Tier 2 & 3 for export only

CHASSIS

Choice of conventional or cab-over chassis

TRAVEL SPEED

Highway speeds



*Consult factory for warranty details

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 Crosswind sweeper with a one-year limited warranty. The Crosswind 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.

Your Local Elgin Dealer Is:



Specifications subject to change without notice. Some items shown may be optional. Elgin® Crosswind® Crosswind FSX® Ecolinfused® LifeLiner® Memory Sweep® and SharedPower™ are registered trademarks of Federal Signal Corporation. Hardox® is a registered trademark of Hardox wear plate. Federal Signal Corporation is listed on the NYSE by the symbol FSS.

The patent entitled SharedPower Street Sweeper was issued on 4/21/2015 with patent #9,010,467.
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LIMITED WARRANTY

Each machine manufactured by ELGIN SWEEPER COMPANY ("ESCO" or the "Company") is warranted against defects in material and workmanship for a period of 12 months provided the machine is used in a normal and reasonable manner. This limited warranty is applicable only to the original user-purchaser for a period of twelve (12) months (as measured from the date of delivery to the original user-purchaser) and is not transferable.

During the Limited Warranty Period ESCO will cause to be repaired or replaced, as the Company may elect, any part or parts of such machine that the Company's examination discloses to be defective in material or workmanship. Repairs or replacements are to be made at the selling Elgin distributor's location or at other locations approved by ESCO.

The ESCO Limited Warranty shall not apply to:

1. 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.
2. Normal adjustments and maintenance services.
3. Normal wear parts such as but not limited to, brooms, oils, fluids, filters, broom wire, shoe runners, rubber deflectors and suction hoses.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended by ESCO.
5. Repairs, modifications or alterations without the express written consent of ESCO, which in the Company's sole judgment, have adversely affected the machine's stability, operation or reliability as originally designed and manufactured.
6. Items subject to misuse, negligence, accident or improper maintenance.

NOTE The use in the product of any part other than parts approved by ESCO may invalidate this warranty. ESCO reserves the right to determine, in its sole discretion, if the use of non-approved parts operates to invalidate the warranty. Nothing contained in this warranty shall make ESCO liable for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure in the machine.

TO THE EXTENT LIMITED BY LAW, THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

This warranty is also in lieu of all other obligations or liabilities on the part of ESCO, including but not limited to, liability for incidental and consequential damages on the part of the Company or the seller. ESCO makes no representation that the machine has the capacity to perform any functions other than as contained in the Company's written literature, catalogs or specifications accompanying delivery of the machine. No person or affiliated company representative is authorized to alter the terms of this warranty, to give any other warranties or to assume any other liability on behalf of ESCO in connection with the sale, servicing or repair of any machine manufactured by the Company.

ESCO reserves the right to make design changes or improvements in its products without imposing any obligation upon itself to change or improve previously manufactured products.

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