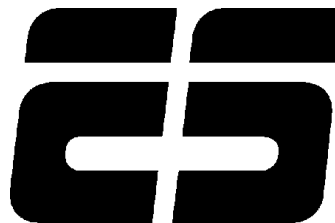


Thank You for your interest in Equipment Services, Inc.

Automate ANY Process

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EQUIPMENT SERVICES, INC.

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About the company...

Equipment Services Inc. began designing and manufacturing automation equipment in 1991. ES, Inc. has grown to become a respected leader in the automation industry by working closely with clients, fulfilling their automation needs, and building lasting relationships.

At Equipment Services Inc. we specialize in the design and manufacturing of all types of automation equipment. Providing custom designed machines for the food processing, woodworking, pharmaceutical/ medical, automotive and light truck industries.

ES, Inc. also provides standard feeders, stackers, accumulators and conveyors for the printed circuit board industries. Our engineers are experts in system integration and can complement your current line of automation.

With the increasing need to stay competitive in today,s marketplace, automation can keep your business on the leading edge of technology and production. Call us today for free consultation and find out if automation is right for your company.

Stay on the leading edge of Technology and production...

Call ES, Inc. today for a FREE consultation!

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Model 110/130 Conveyor

ES Model 110 & 130 conveyors are used to transport panels between processing stations.

DIMENSIONS:

Length	Varies
Width	110= 29", 130= 35"
Height	34" to 40"

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FEATURES:

- Lengths from 2' to 10', in increments of 4".
- 2" Diameter soft disc rollers.
- Rollers are worm gear driven.
- Rollers on 4" centers.
- Load capacity of 25 lbs. per square foot.
- Panel Sizes: .006 to .125 thick
Up to 24" x 24" (Model 110)
Up to 27" x 27" (Model 130)
- Conveyor speed 0-20 fpm.
- Easy height adjustment for pass heights of 34 to 40 inches.
- Utilities: 110 Volts, 50/60 cycle, 3 amp.
- Paint: Peking Gray powder paint.
- Quality construction assures low maintenance.
- High grade, corrosion resistant materials are used throughout.

OPTIONS:

- Custom widths and lengths available.
- High speed conveyor: 50 fpm.
- Belt drive in place of disc rollers.
- Solid rollers in place of disc rollers.
- High temp silicon discs available.
- In-line panel rotate module.
- In-line panel centering.
- In-line panel flip-over.
- Edge carrier conveyor.
- Stagger conveyor.
- Rollers on 3" centers (.002 thick panels).
- Dual speed drives



Model 240-D/340-D Pick & Place Feeder/Stacker

The ES Model 240-D Dual Pick & Place Feeder is designed to pick-up (load) panels from a table (located on either side of the machine), and place them on a horizontal conveyor, and feed them into a pro-cess.

The ES Model 340-D Dual Pick & Place Stacker is designed to pick-up (unload) panels from a horizontal process and place them onto a table on either side of the machine.

DIMENSIONS:

Length	94"
Width	40"
Pass Height	34" to 40"

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FEATURES:

- 6" Stack Capacity - each table
- Panel Sizes .002 to .125 thick up to 27" x 27"
- Conveyor speed 0-20 fpm.
- Easy height adjustment for pass heights of 34 to 40 inches.
- Utilities: 110 Volts, 50/60 cycle, 10 amp.
- Dry Filtered compressed air 80-100 psi.
- Through put rate up to 7 panels/min.
- Select table "A" or "B" or alternate.
- Quality construction assures low Maintenance.
- High grade, corrosion resistant materials are used throughout.
- Paint: Peking Gray powder paint

OPTIONS:

- Custom widths available.
- Other PLC's available upon request.
- 10" stack capacity.
- High speed conveyor: 50 fpm.
- Feed or stack into totes.



Model 275-DOH/375-DOH Pick & Place Feeder/Stacker

The ES Model 275-DOH Pick & Place Feeder is designed to pick-up (load) panels from a 75 degree right angle A-frame cart and place them onto a horizontal process.

The ES Model 375-DOH Pick & Place Stacker is designed to pick-up (unload) panels from a horizontal process and place them onto a 75 degree right angle A-frame cart.

DIMENSIONS:

Length	70"
Width	45"
Pass Height	70"

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FEATURES:

- 8" stack capacity each side.
- Sliding Interlocked Doors.
- Belt Conveyor.
- Overhead Pick & Place panel transfer.
- Panel Separation: Flex Panel (Model 275-DOH).
- Conveyor Speed 0-20 fpm.
- Cycle Time: 10 Seconds.
- Panel Capabilities: .004-.125 thick 12" x 12" up to 30" x 30".
- Easy height adjustment for pass heights of 35 to 44 inches.
- Utilities: 110 Volts, 50/60 cycle, 10 amp.
- Dry Filtered Compressed Air: 80-100 psi.
- Paint: Peking Gray powder paint

OPTIONS:

- Custom widths available
- Other PLC's available upon request.
- High Speed Conveyor: 50 fpm.
- Modified to accommodate different size carts.



Model 275-RD

75 Degree Double Sided Right Angle Feeder

The ES Model 275-RD Double Sided Right Angle Feeder is designed to feed panels from a Right Angle 75 Degree Double Sided Cart (Model TC-75-RD) to any horizontal process.

DIMENSIONS:

Length	56"
Width	35"
Pass Height	38" to 44"

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FEATURES:

- Panel Capability: .006 - .125 thick. Up to 27" x 27"
- Conveyor speed: 0-20 fpm.
- Belt Conveyor.
- Holds panel stacks up to 10 inches.
- Cart removes from machine.
- Easy height adjustment for pass heights of 36 to 42 inches.
- Utilities - 110 Volts, 50/60 cycle, 6 amp.
- Dry Filtered compressed air 80-100 psi.
- Paint: Peking Gray powder paint.
- Quality construction assures low maintenance.
- High grade, corrosion resistant Materials are used throughout.

OPTIONS:

- Custom widths available.
- Other PLC's available upon request.
- High speed conveyor: 50 fpm.
- Extended conveyor.



Model TC-75-RD

75 Degree Double Sided Right Angle Cart

The ES Model 275-RD Double Sided Right Angle Feeder is designed to feed panels from a Right Angle 75 Degree Double Sided Cart (Model TC-75-RD) to any horizontal process.

DIMENSIONS:

Length 36"

Width 31"

Height 44" -52" to top

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FEATURES:

- 10" stack capacity each side.
- 6" Heavy duty swivel casters.
- Panel Capabilities: .006-.125 thick up to 27" x 27"
- Adjustable height.
- Paint: Peking Gray powder paint
- Quality construction assures low maintenance.
- High grade, corrosion resistant materials are used throughout.

OPTIONS:

- Different stack capacities.
- All stainless steel frame.
- Locking casters.

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Model 405-HD Rigid Panel Accumulator

The ES Model 405-HD Accumulator is designed to handle rigid panel circuit boards. It has 3 modes: 1) Feeding panels onto a process line, 2) Receiving panels from a process line, 3) Accumulating (storing) panels in line for drying or cutting. Panels can be released at precisely timed intervals to match the associated process speed.

DIMENSIONS:

Length: 25 panel capacity is 48"
38 panel capacity is 60"
50 panel capacity is 72"
Width: 60"
Pass Height: 48" to 54"

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FEATURES:

- Entrance/Exit Belt Conveyors
- Accepts panel widths up to 28" wide
- Machined Aluminum paddle assembly with each paddle containing six 8" wickets with non-marring tips
- Bolt down legs
- Panel size capabilities: .031" to .475" thick up to 28" X 28"
- Conveyor speed 0-20 fpm
- Programmable controller: Modicon Momentum
- Easy height adjustment for pass heights of 36" to 43"
- Utilities: 110 Volts, 50/60 cycle, 6 amp
- Quality construction assures low maintenance
- High-grade, corrosion resistant materials throughout

OPTIONS:

- Custom widths and lengths available
- Other PLC's available upon request
- Extended conveyor on entrance and exit ends
- 30" wide panels

PANEL CAPACITIES:

ES Model 405-HD-25:
25 panel capacity

ES Model 405-HD-38:
38 panel capacity

ES Model 405-HD-50:
50 panel capacity

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Model 420-25 Tower Accumulator

The ES Model 420-25 Tower Accumulator has been primarily designed to be an in-line buffer within a process line. Normal mode is to work as a pass through conveyor. If the process down stream is halted, the tower will accumulate panels. If the tower is loaded to a near full condition, the machine will notify the up stream process to stop. Once the down stream process is operable, the tower will unload all panels by default.

DIMENSIONS:

Length	48"
Width	34"
Pass Height	41"- 47"

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FEATURES:

- 48" long disk conveyor.
- Panel Sizes .004 to .125 thick up to 24" x 24"
- Full/Jam audible alert.
- Panel Rack Capacity: 25 panels.
- Conveyor speed 0-20 fpm.
- Easy height adjustment for pass heights of 37 to 43 inches.
- Utilities - 110 Volts, 50/60 cycle, 6 amp.
- Paint: Peking Gray powder paint
- Quality construction assures low maintenance.
- High grade, corrosion resistant materials are used throughout.

OPTIONS:

- Custom lengths available.
- High speed conveyor: 50 fpm.
- Maximum 45 panel capability.
- Other PLC's available upon request.
- Extended conveyor: entrance and Exit Ends

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Model 430-20

LIFO/FIFO Buffer

The ES Model 430-20 LIFO/FIFO Buffer is designed to be used as an in-line buffer. It has 3 operation modes: it can be used as a thru conveyor, can be used as a last in first out buffer, and can be used as a first in first out buffer.

DIMENSIONS:

Length 80"

Width 45"

Height 80"

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FEATURES:

- Sliding Interlocked Doors.
- Dual Speed Conveyor Belt Conveyor.
- Unique operation utilizes minimum Cycle times.
- 20 Panel Rack Capacity.
- Conveyor Speed 0-20 fpm..
- Panel Capabilities: .004-.125 thick. 12" x 12" up to 30" x 30".
- Easy height adjustment for pass Heights of 37 to 46 inches.
- Programmable Controller: Modicon TSX momentum.
- Utilities: 230 Volts, 50/60 cycle, 10 amps
- Dry Filtered Compressed Air: 40 psi.
- Paint: Peking Gray powder paint

- Quality construction assures low maintenance.
- High grade, corrosion resistant materials are used throughout.

OPTIONS:

- Custom widths available
- Other PLC's available upon request.



Model 530

Square Turn Conveyor

The ES Model 530 Square Turn Conveyor is designed to receive panels from a horizontal process and then direct them straight thru, offload them to the left or right.

DIMENSIONS:

Length	32"
Width	35"
Height	34"-42" to top

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FEATURES:

- Panel Sizes .004 to .125 thick up to 30" x 30"
- Programmable Controller: Modicon Micro.
- Disc conveyor speed: 0-20 fpm.
- Belt conveyor speed: 0-20fpm.
- Easy height adjustment for pass heights of 37 to 43 inches.
- Utilities - 110 Volts, 50/60 cycle, 3 amp.
- Dry Filtered compressed air 80-100 psi.
- Paint: Peking Gray powder paint.
- Operating modes: through, offload left, offload right.
- Quality construction assures low maintenance.
- High grade, corrosion resistant materials are used throughout.

OPTIONS:

- Custom widths and lengths available.
- High speed conveyor: 50 fpm.
- Other PLC's available upon request.
- Off-load catch tray.
- Convey from the left or from the right.

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Model PCT-24

Molded Panel Tote

The ES Model PCT-24 Molded Panel Tote is designed to store panels. Panels can either be placed into, or removed from the tote. The tote can be used in tote handling equipment for easy panel/slip sheet placement and removal.

DIMENSIONS:

Length 31.5"

Width 30"

Height 4.25"

FEATURES:

- Durable molded white ABS.
- Adjustable stops to accommodate different panel sizes.
- Panel Sizes: up to 26" x 27"
- High grade, corrosion resistant materials are used throughout.

OPTIONS:

- * Stack Depth: 3"
- * Stack able.

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