

WEBB-STILES

Heavy Unit Load Conveyors



Systems

Diversity

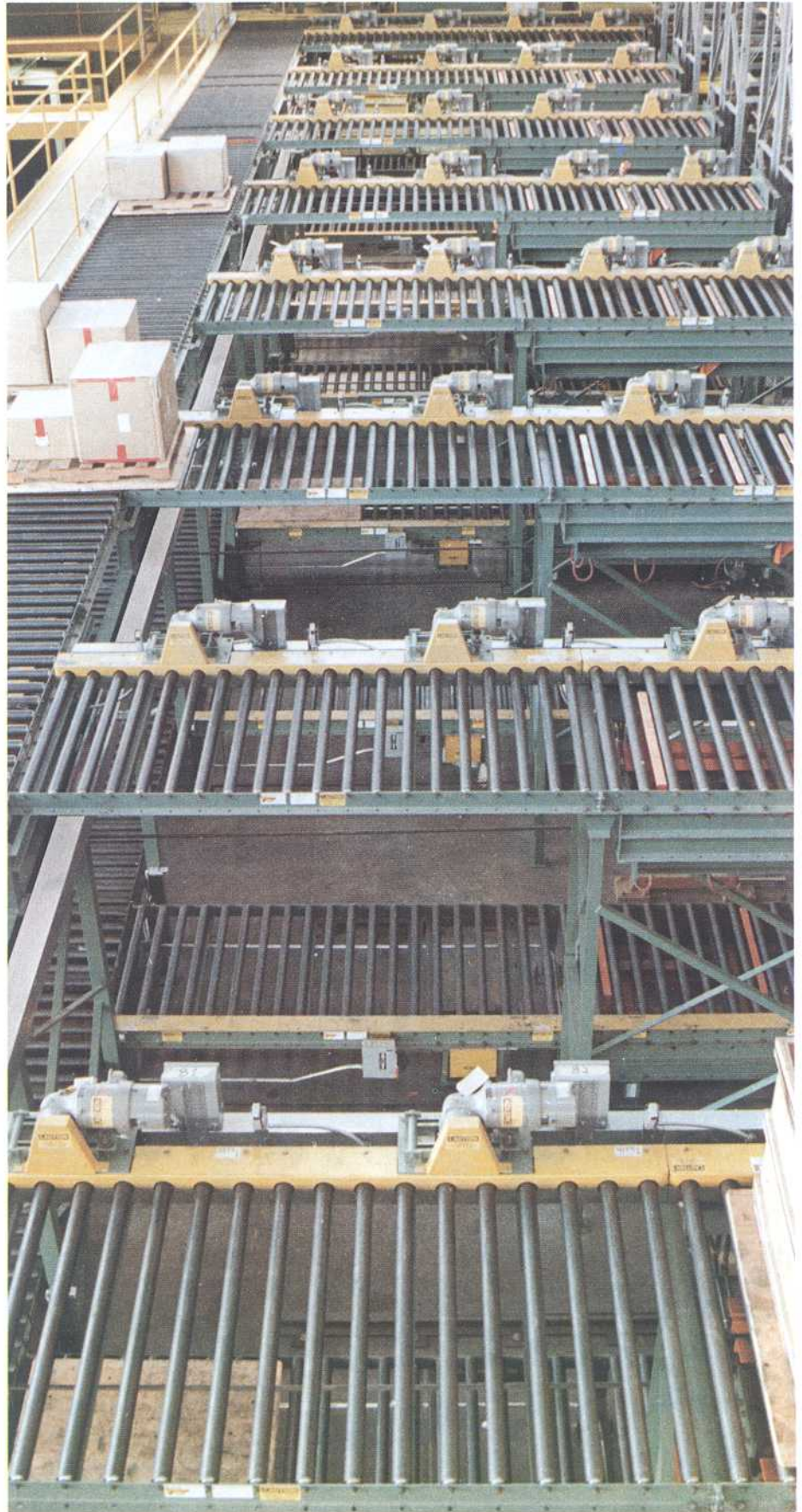
Since 1956, Webb-Stiles Company has been furnishing high quality custom engineered material handling systems to a variety of industries. Our product lines include all conventional conveyors such as gravity, belt driven live roll, chain driven live roll, overhead power and free, and overhead trolley conveyors, plus a wide variety of related equipment and engineered transfer devices.

Webb-Stiles' newest product line centers around pallet and large unit load handling equipment and systems. In the past few years we have become one of the leaders in the field. Our systems consist of everything from relatively simple straight line conveyor runs to complex layouts with hundreds of feet of conveyor and many engineered handling devices. Our sophisticated unit handling equipment is capable of the extremely accurate indexing, orientation and placement of materials required in most automated manufacturing and warehousing operations.

Flexibility

Our family of unit load handling devices offer the flexibility of material flow needed in today's ever changing world of business. These preengineered components include turntables, chain transfers, vertical conveyors, pallet dispensers, transfer cars, weigh stations, and centering devices. Our innovative engineers designed these devices to be the nucleus of any large unit load handling system and have refined them to the point where they can be modified easily to meet the requirements of any particular project. You, the customer, receive all the benefits of custom engineered handling equipment at a fraction of the cost. Of course, we also offer complete custom equipment design services.

Whatever your needs, you can count on Webb-Stiles to deliver the highest quality, best designed products available.



Full Service

Design

Our knowledgeable mechanical engineers will assist you in determining your equipment requirements based on system function and load size. They will specify the components needed to accomplish all predetermined objectives utilizing Webb-Stiles complete line of material handling devices. If yours is a special problem and we don't currently have a design solution on file that suits your needs, we will custom design a device for you. Whichever way, you get the equipment that fits your needs exactly, without compromise.



Webb-Stiles engineers will also design a control system to accurately suit your material handling needs. Whether through pneumatics, hydraulics, or electronics, you can be assured the most appropriate technology will be utilized.

Through the use of advanced electronics, it is possible to interface with any type of computer control system in use today. Webb-Stiles engineers will also program and debug your controls to assure smooth startup and accurate operation.

With total in-house engineering capabilities, Webb-Stiles offers absolute design control and centralized decision making, important considerations when dealing with any system no matter how large or small.

Fabrication

At Webb-Stiles we have a completely equipped shop enabling us to do all fabrication work in-house. Our highly skilled craftsmen will build your equipment using methods and techniques refined by years of experience. Techniques that make a difference, like punching side frames in pairs to assure precise roll to roll alignment, are standard at Webb-Stiles. This means that all rollers carry the load equally without high or low spots that can drastically reduce bearing life. Webb-Stiles engineers have also developed AUTOFUSION, an automatic sprocket-to-roller welding technique. A sprocket is locked in position on the roll while a welding head automatically fuses the two. This assures maximum weld penetration and strength as well as precise positioning, your guarantee of the highest quality possible at an often overlooked but very critical point.

We use only the highest quality parts and materials and our craftsmen are dedicated to delivering a product that is defect free and provides years of dependable, trouble-free service.



Installation

In some instances, installation can be a major stumbling block and mean costly delays in startup of any material handling system. At Webb-Stiles we recognize this and take a number of steps to head off problems before they occur.

By shipping many components preassembled and pretested, we can drastically reduce installation time. The advantages of this over assembly on site include time savings, labor cost savings, and higher quality assembly.



Our field installations are handled by one of our senior superintendents. It is his responsibility to manage a crew of skilled craftsmen familiar with all types of material handling equipment. These craftsmen will install your equipment following instructions from our engineers while adhering to strict quality standards.

In addition, our engineers travel to many sites to direct the installation and commissioning of the more sophisticated equipment such as electronic control systems.

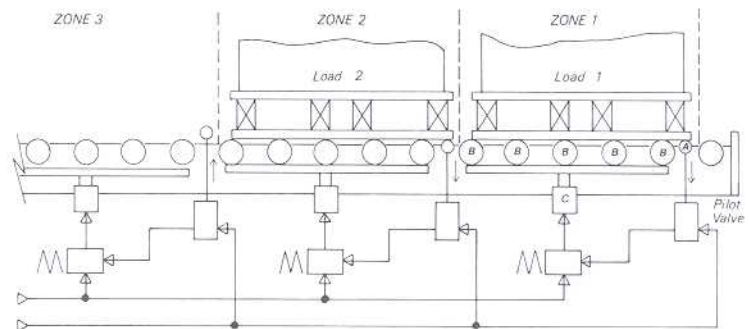
Webb-Stiles also maintains a staff of senior project managers to oversee all major contracts. These managers are accountable for the performance of their assigned projects and have authority across all lines including engineering, manufacturing, and installation.

Live Roll Conveyors

Accumulating

Introducing ALPHA®, Webb-Stiles' new Air Logic Pallet Handling Accumulating conveyor. Air logic is the key to this innovative approach to pallet and large unit load handling. Air actuated control circuits are capable of zoned accumulation with virtually any size load. This unique Webb-Stiles control system powers the load totally into a zone before shifting into the accumulating mode. The result is 100% utilization of accumulation zones, a must in automated warehousing operations where high throughput is important. As a load is removed from any zone, all successive loads index forward one zone to fill the accumulator again. Equipped with braking and positioning mechanisms, the ALPHA system offers the precise positioning and indexing needed to interface with automatic manufacturing operations. ALPHA, combined with other devices such as turntables and transfers gives you total control of position and orientation.

As with the entire Webb-Stiles' family of material handling products, the ALPHA system is available both preengineered and custom designed. So whatever your needs, you can rely on ALPHA – number one among unit load accumulators.



How ALPHA works: As load (1) depresses actuator roll (A), the logic signals drive rolls (B) to disengage and optional brake (C) to engage. This sequence allows controlled use of all zones. When the load is removed from Zone 1, the control logic overrides the depressed actuator roll in Zone 2 powering that load forward into Zone 1. In this manner all loads will advance to keep all accumulating zones occupied.

Chain Driven

An excellent choice for any material handling job is a high quality Webb-Stiles chain driven live roll conveyor.

For heavy duty or continuous operation, we recommend the roll-to-roll drive system. Each roll is positively linked by two separate loops of chain to each adjacent roll. By using this type of equipment, you can be assured of maximum drive capacity and equipment life.

A full line of roll sizes are available to meet any load requirements. Your Webb-Stiles sales engineer can assist you in choosing the size that's right for you.



System Controls

The brains of any material handling operation is the control system. Webb-Stiles designs and builds many types of controls including electronic, hydraulic, and pneumatic. All Webb-Stiles control systems are designed for total accuracy and reliability.

Many systems are controlled through the use of hydraulic or pneumatic logic. These dependable technologies are the appropriate choice for many control systems, since they can operate in a wider range of environments than some other components.

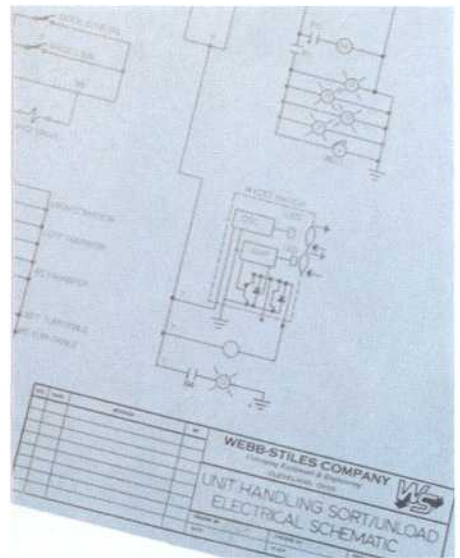
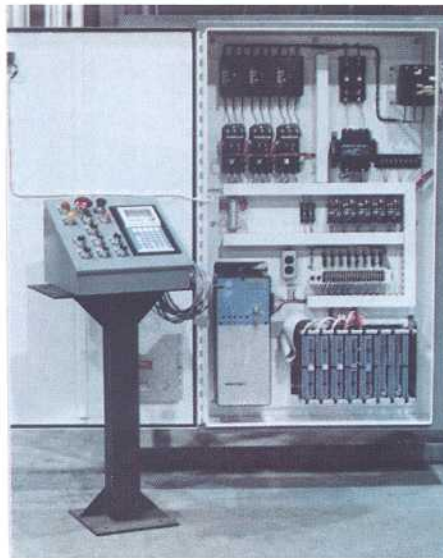
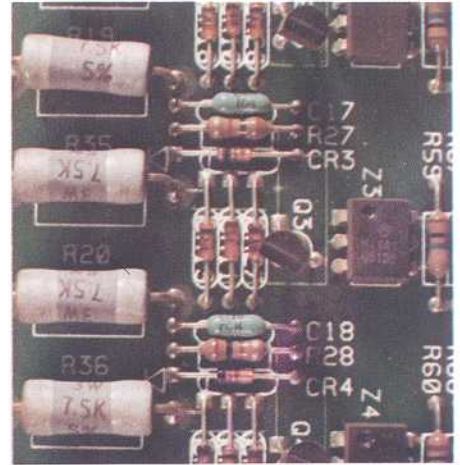
Using microprocessor based components, our material handling controls have the ability to interface with your present computerized control system. This makes it possible to accurately supply parts and materials to automated work stations as well as other state-of-the-art assembly and shipping operations.

This level of control is achieved by accurately tracking material flow through the system using various counting and sensing devices. The output from these devices can be utilized at many levels ranging from first in/first out flow to advanced address designated routing.

To ensure the most precise functioning of your control system, it is important for you to receive the very best programming help available. Webb-Stiles engineers are experienced in programming all types of microprocessor based controls. From the simplest to the most complex, they will provide accurate, efficient control of material flow.

All Webb-Stiles controls are thoroughly tested before leaving our plant. This extra attention to quality assurance means drastically reduced debugging in the field.

We use only the highest quality control components and materials to assure years of dependable trouble free service.



Auxiliary Equipment

To enhance the versatility of our high quality conveyors, Webb-Stiles specializes in the design of special handling devices. The items shown here are just a few of the many components Webb-Stiles engineers have designed to fit unique handling applications.

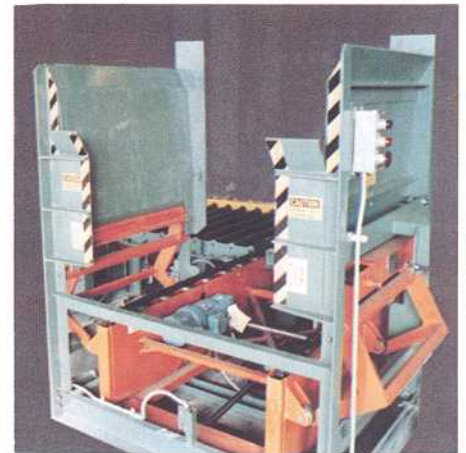
TURNTABLES (Fig. 1) are electrically or pneumatically powered units capable of accurate rotation up to 360°. They can be combined with chain transfers or elevating devices for added utility.



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BOLSTERS (Fig. 2) lift loads off the conveyor rolls when clearance must be provided for lift truck forks or storage/retrieval machines.

PALLET DISPENSERS (Fig. 3) are an efficient method of metering shipping pallets onto a conveyor in any type of operation.

VERTICAL CONVEYORS (Fig. 4) The vertical conveyor shown is capable of raising or lowering materials to any level needed. It can be equipped with a roller bed, chain transfer, or turntable. Note the safety skirt.

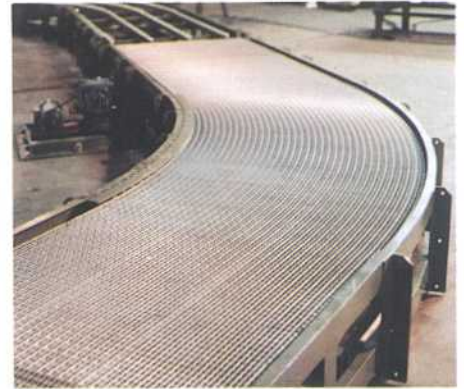


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SQUARING STATIONS (Fig. 5) are used to ensure that a fork truck operator centers a pallet load on top of a captive house pallet.



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WIRE MESH CURVES (Fig. 6) convey objects that are difficult or impossible to transport on other types of conveyors. They are also used to change direction in a belt conveyor system.



7

CHAIN TRANSFERS (Fig. 7) are used to move loads on and off other handling devices. They work well with turntables and pallet dispensers as well as for right angle transfers to other conveyors.

HIGH SPEED LOW PROFILE PALLETTRANSFER (Fig. 8) shown here is used to place captive house pallets onto a live roller conveyor system. Its multidirectional movement and high speed cycling allow it to keep pace with a number of fork truck operators. The vacuum head can be replaced by a number of devices such as claws or clamps to grasp odd shaped objects such as shipping pallets or manufacturing fixtures. These air motor powered transfers can be positioned (using our special locating latch) with amazing accuracy.



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Webb-Stiles, a whole world of conveyor equipment.



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|--------------------------|------------------------|------------------------|
| Accumulating Conveyors | Gravity Conveyors | Retarding Conveyors |
| Apron Conveyors | Guided Pallet | Roller Conveyors |
| Ball Tables | Herringbone Roller | Roller Flight |
| Belt Driven Live Roller | Hydraulic Conveyors | Roller Slat |
| Belt Conveyors | Inclined Reciprocating | Roller Chain |
| Bolsters | Live Roller | Shuttle Conveyors |
| Carriers | Lineshaft | Slat Conveyors |
| Cart-Trac | Live Storage | Sortation Conveyors |
| Carrousel | Merge Sections | Speed-Lift Conveyors |
| Cat Drives | Overhead Trolley | Spindle Conveyors |
| Chain Conveyors | Pallet Collectors | Tow Line Conveyors |
| Chain Driven Live Roller | Pallet Conveyors | Takeups |
| Chain Transfers | Pallet Dispensers | Transfer Cars |
| Cleated Belt | Pickup & Delivery Sta. | Turnover Devices |
| Converging Sections | Platform Conveyors | Troughed Roller |
| Diversers | Portable Conveyors | Turntables |
| Downenders | Power & Free | Upenders |
| Drag Chain Conveyors | Power Curves | Vertical Continuous |
| Fixture Conveyors | Pusher Bar | Vertical Reciprocating |
| Floor Conveyors | Pusher Chain | Walking Beam |
| Gate Sections | Reciprocating Beam | Wire Mesh |

***ENGINEERING**

***MANUFACTURING**

***INSTALLATION**



OVERHEAD TROLLEY

A complete line of industry standard 3", 4" and 6" overhead trolley systems, components and accessories. Large inventory of components available immediately under our Readi-Ship program.



ALL TYPES OF CONVEYORS

We engineer and manufacture a complete line of gravity, chain driven, belt driven and lineshaft roller conveyors. Also belt, chain, slat and fixture. Request our Design Guide.



POWER & FREE CONVEYORS

Webb-Stiles offers Over & Under and Side-Push Power & Free systems in 3", 4" and 6" combinations. Complete engineering, manufacturing and installation for turn-key operation.



CUSTOM CONVEYORS

Webb-Stiles specializes in all kinds of custom conveyors and material handling equipment. Our reputation for rugged, heavy-duty equipment assures you of defect free, dependable and trouble-free operation.

THE WEBB-STILES COMPANY

The Webb-Stiles Company was founded in 1956 and specializes in custom designed material handling systems. The company has grown and expanded over the past 40 years culminating with our main plant and corporate headquarters in Valley City, Ohio (just south of Cleveland) and our Southern division in Gadsden, Alabama.

We maintain engineering staffs at both locations with many years of conveyor experience in the mechanical, structural and electrical disciplines. The two plants consist of over 300,000 square feet enabling Webb-Stiles to handle all its fabrication work in-house.

The volume and diversity of conveyors manufactured by Webb-Stiles continually expands. It now includes many standard items, as well as a wide variety of specialty units.

Webb-Stiles also manufactures and installs all types of overhead trolley and Power & Free conveyors along with a complete range of floor conveyors of all types. We maintain sales engineers in our Valley City and Gadsden plants with sales offices in Atlanta and Nashville. For more information or assistance, please feel free to contact any of our offices.



Webb-Stiles Company, main plant and corporate offices in Valley City, Ohio.



Webb-Stiles of Alabama, southern division in Gadsden, Alabama.



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