



Ergonomics

**SAILRAIL**

We Convey Quality™

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## We Convey Quality™

Since our inception in the mid 1970's, SailRail® has understood the needs of the automotive industry and built our company to meet those needs. We recognize that our products must be the benchmark of form, function and value to compete in a global market.

## SailRail® Solutions

There was a demand from our customers to build simple ergonomic devices in the same robust way, with the same attention to quality, as the SailRail® automated line of products. Customers that have benefited from SailRail® IndexAir™ and IndexEr™ linefeed automation are now taking advantage of our ErgoKart™, Accuturn™ and ergonomic product line.



**LEFT:**

Standard ErgoKart™  
6 wheels,  
Foot Brake,  
Tow Hitch

**RIGHT:**

Large Low Profile ErgoKart™



**LEFT:**

Stamping ErgoKart™  
4-Wheel Steering,  
Tow Bar,  
Pintle Hitch

**RIGHT:**

Low Boy ErgoKart™



**LEFT:**

Standard ErgoKart™  
Tow Hitch,  
Foot Operated,  
Locking Wheels

**RIGHT:**

Straddle Lift ErgoKart™

## Our Commitment

At SailRail®, our commitment is to have every project a complete success. We believe that objectives are reached through a thorough understanding of the unique goals and limitations that characterize the application. That is why we take the job of listening to our customer so seriously. By injecting our experienced team into the customer's environment, we will develop the optimum solution.

SailRail® equipment is designed to work great today, and for years to come. We provide full service support from applications analysis throughout installation and for the life of the machinery.



**LEFT:**

ErgoKart™ with Onboard Side Tilt – Pneumatic Variable Tilt

**RIGHT:**

ErgoKart™ with Onboard Radical Tilt – Mech tilt 0° to 80°



**LEFT:**

ErgoKart™ with Onboard Removable Riser

**RIGHT:**

ErgoKart™ with Onboard Forward Tilt

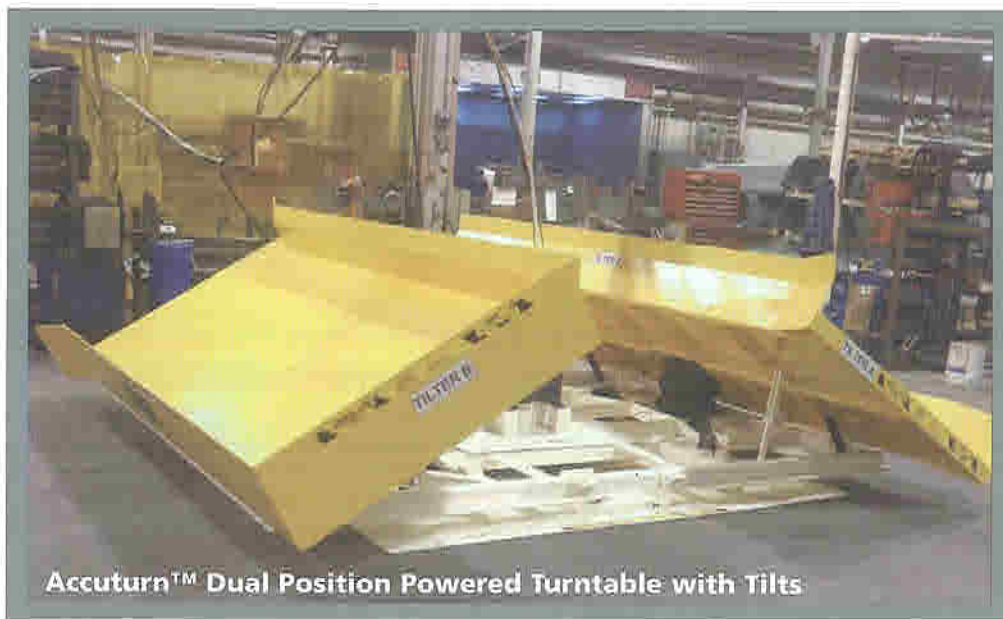


**LEFT:**

ErgoKart™ with Onboard Turntable – Manual 360° degree turn; Foot operated lock at 180°

**RIGHT:**

ErgoKart™ with Onboard Riser and Tilt



Accuturn™ Dual Position Powered Turntable with Tilts

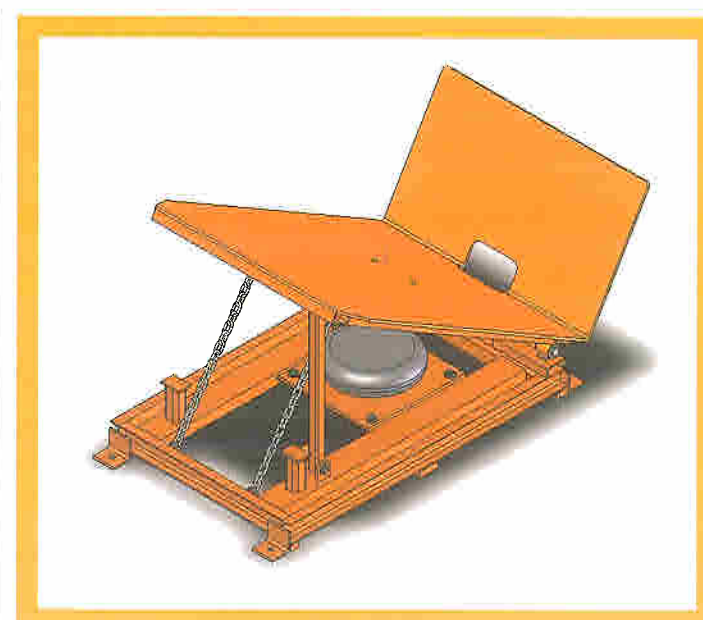
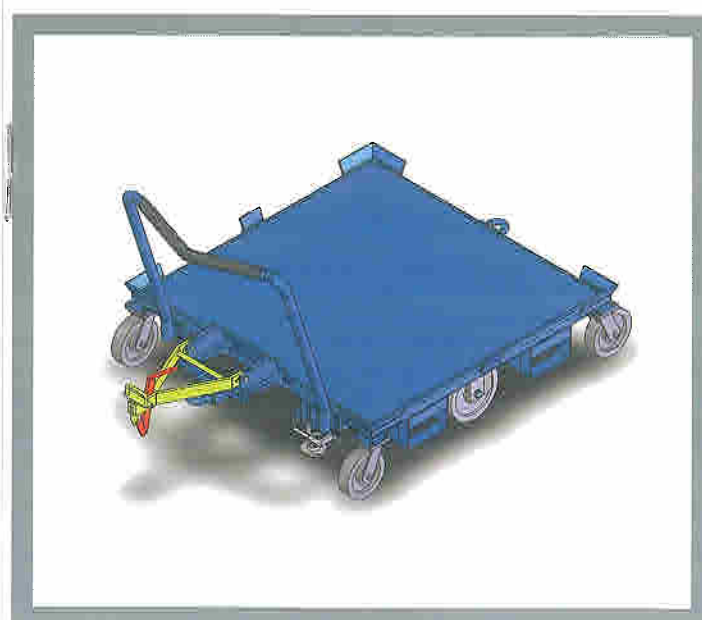
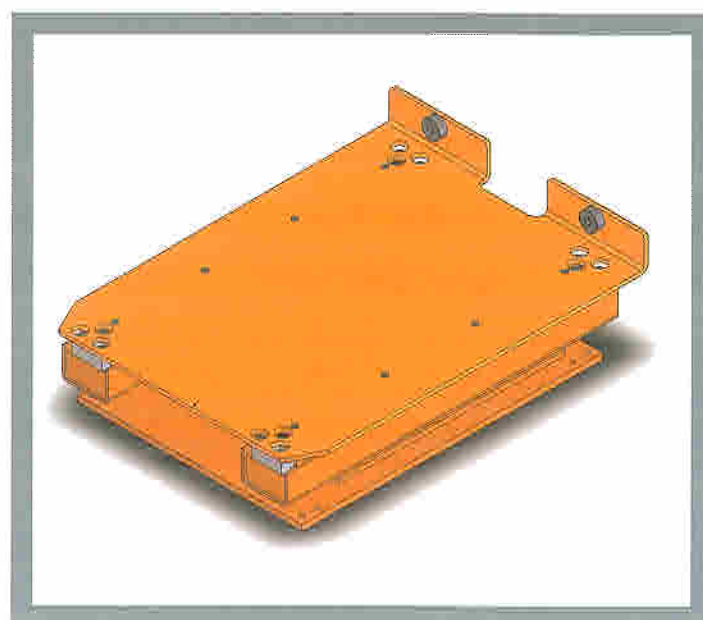
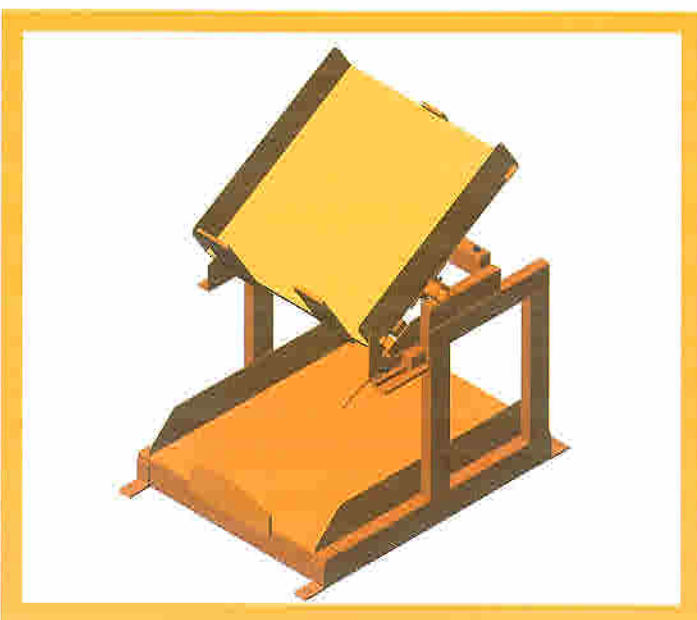


Accuturn™ Dual Position Manual Turntable with Tilts



Accuturn™ Dual Position Powered Turntable

FIFO & Space Constraints <b>CATERPILLAR</b> ASRS	Remote Installation High Density Storage <b>SOUTH PACIFIC TIRE</b> FlowAir	End of Press Unloading <b>FORD</b> Stamping Shuttling Point of Use	Buffer, Truck Load <b>FORD</b> 8x8+1 Over/Under	Flexible Manufacturing <b>MERCEDES-BENZ</b> IndexAir Towers	Line Buffer <b>DAIMLERCHRYSLER</b> Side x Sides	Line Feed <b>GENERAL MOTORS</b> Side x Sides	Robotic Interface <b>GENERAL MOTORS</b> L-Shape Robotic Pick	Overhead Gantry <b>GENERAL MOTORS</b> Engine load Gantry Load	In-Line Vehicle Sequencing <b>FORD</b> Indexer with Ergo Devices	Custom Solutions <b>FORD</b> Introduction of ErgoKarts	
Material Handling R&D <b>SAILRAIL INCEPTION</b> Flow Air Storage Systems	High Density Storage <b>GENERAL MOTORS</b> FlowAir	Hot Room Storage <b>COOPER TIRE</b> FlowAir	Fork Free <b>CHRYSLER</b> AGV Interface	DeMag Stacker Crane Interface <b>MAGNA - KARMAX</b> <b>HEAVY STAMPING</b> AS/RS P&D Stations	Floor Space Reduction <b>MERCEDES-BENZ</b> AS/RS	Ergonomics, Operator Walk-In <b>FORD</b> IndexAir Over Under with Turntable and Bridge	Safety & Ergonomics <b>FORD</b> Robotic Interface / KURA	JIT - Dual Cycle Linefeed <b>DAIMLERCHRYSLER</b> Over/Unders	Factory Automation <b>FORD</b> AGV Pickup & Delivery (P&D)	Parts Display <b>MERCEDES-BENZ</b> Ergonomic Devices	Parts Complexity <b>AUTO ALLIANCE</b> Automation Cart Interface
<b>1970's / 1980's</b>	<b>1990's</b>	<b>2000's</b>		<b>SAILRAIL</b>							
Buffer & Linefeed <b>FORD</b> Introduction of IndexAir	FIFO Storage <b>GOODYEAR</b> FlowAir	Various Container Types <b>FORD</b> Mech Over/Under	Plant Launch Cirrus/Stratus <b>CHRYSLER</b> IndexAir	Manpower Reductions <b>MAGNA - KARMAX</b> Index with Robotic Interface	Automation Integration <b>COMAU PICO</b> Towers	Cycle Time Reduction <b>FORD</b> Over/Under	Rear Floor Pan Handling <b>GENERAL MOTORS</b> Device Net Controls	Ergonomic Devices <b>DAIMLERCHRYSLER</b> Heavy Duty Tilters	Linefeed <b>DAIMLERCHRYSLER</b> Side x Sides	Flexible Manufacturing <b>DAIMLERCHRYSLER</b> S&V Interface - Dock & Linefeed Robotic Integration	
FIFO & Space Constraints <b>MICHELIN</b> 72 Lane FlowAir	Production Increase <b>MAGNA-KARMAX</b> L-Shape Robotic Pick Interface	High Density Dock Staging <b>OGIHARA</b> Walking Floor Interface	Plant Launch Intrepid <b>CHRYSLER</b> First In First Out	Line Buffer <b>OGIHARA</b> L- Shaped Over/Unders	Liberty Launch <b>DAIMLERCHRYSLER</b> AGV Interface	Increased Part Complexity <b>DAIMLERCHRYSLER</b> Introduction of IndexAir	Parts Precision <b>MERCEDES-BENZ</b> Robotic Pick	Line Feed <b>MERIDIAN</b> Side x Sides	Flexible Manufacturing <b>FORD</b> Over/Unders	Robot Buffer <b>BMW / DRIVE AUTO</b> Robot Loading	



## SailRail® Features

- Safety engineered and proven
- Robust designs, R&M & FMEA's provided
- Ergonomically designed for low push/pull forces and maneuverability
- Factory tested, Installation and O&M manuals provided
- Customized options to meet application specifics
- Parametric automated design allows flexibility for timely delivery



**LEFT:**

Lift for Lineside ErgoKart™ Interface



**RIGHT:**

Lift and Tilt for Lineside ErgoKart™ Interface



**LEFT:**

Accuturn™ Dual Turntable



**RIGHT:**

Lift Table for Lineside ErgoKart™ Interface



**LEFT:**

Powered Roller Side X Side with Powered Lift/Manual Rotate

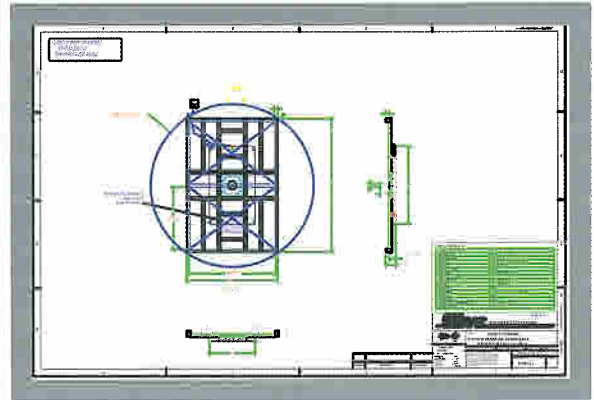


**RIGHT:**

Non Powered Ergo-Tilt Veyor

## Our Team

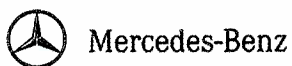
Standing behind SailRail®'s superior product line is a carefully chosen, well-integrated team of professionals. By working closely in an open concept environment, interaction is constant between our highly trained engineers, designers, service group, administrators, project managers and senior management. Frequent communication means that every project stays on track and within budget and the results are monitored as part of our quality assurance system.



## Corporate Responsibility

Paramount to our team's strength is a healthy responsibility to community. SailRail® supports both the local and global community through such groups as The Toronto Sick Kids Hospital, The Juvenile Diabetes Research Foundation, The Boy Scouts, and disaster relief funds worldwide.

## Our Customers



We Convey Quality™



**LEFT:**  
Manual Tilt Table

**RIGHT:**  
Pneumatic Lift  
Table



**LEFT:**  
Lift and Tilt Table

**RIGHT:**  
Radical Tilt



ISO 9001; QS/TE9000  
ISO 9001:2000

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