



**ADVANCE LIFTS**

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**ROLL AND COIL HANDLING EQUIPMENT**

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## ROLL AND COIL HANDLING EQUIPMENT

### HIGHLY CUSTOMIZED AND AUTOMATED UNITS

*All roll and coil handling equipment is customized to some degree. No two applications are alike. Roll or coil sizes vary greatly in diameter, length and weight, while the manipulation requirements range from simple tilting or lifting, to multiple step manipulation and positioning in automated sequences. Positioning requirements can range from 1/4" to .030". Automated requirements may be as simple as single controls with limit switches or electric eyes, up to fully automated operations that require multiple sensors and large programmable logic controllers. Whatever the requirements are for your application, you may rest assured that we have the engineering expertise and experience to meet your needs.*

### SAMPLE FEATURES

It is impossible to illustrate all of the custom and automation features that can be created so we are limited to showing you a small sampling. The photos on the opposite page are of two similar, but slightly different units that contain the following special features:

- ▶ **AUTOMATED MANDREL LOADING AND UNLOADING:** This feature allows a single button to begin a fully automatic mandrel loading or unloading operation. Manual operation is also possible.
- ▶ **MANDREL DROOP COMPENSATION:** During the automatic operations the buggy can sense any binding caused by mandrel droop and automatically compensate.
- ▶ **LOAD SENSING:** The buggy knows when a roll is or is not present.
- ▶ **CORE SENSING AND MEASUREMENT:** With varying roll diameters the core height is automatically measured, which allows a roll to be accurately positioned vertically to begin the loading of the mandrel.
- ▶ **PRECISE POSITIONING:** The variable speed vertical positioning is precise to  $\pm 1/16"$ .
- ▶ **COUNTERWEIGHTED SELF PROPELLED BASE:** The variable speed self propelled base uses flanged wheels to ride flat tracks and is counterweighted to avoid the need for base extensions or straddles when the "V" deck is tilted upright.
- ▶ **OBSTACLE SENSING BUMPERS:** The bumpers are spring-loaded and quickly stop the buggy when an obstacle is encountered.
- ▶ **90 DEGREE UPENDING:** The rolls can be rotated so that the cores are either horizontal or vertical.
- ▶ **CUSTOM PLATFORM PROFILING:** One platform is cut on a diagonal to fit equipment extensions on the interfacing mandrel machinery.

*AUTOMATION AND CUSTOMIZATION FEATURES  
ARE ONLY LIMITED BY YOUR IMAGINATION AND BUDGET.*

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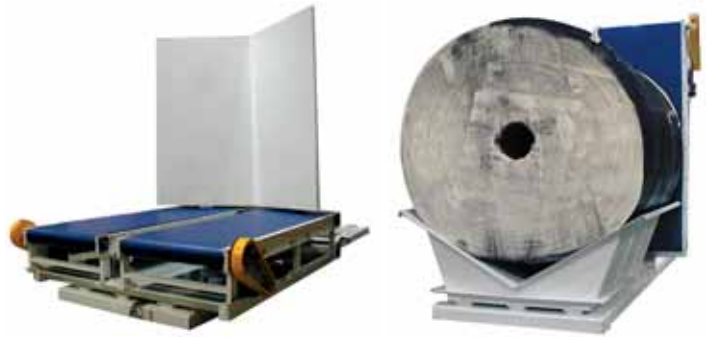
### UPENDERS WITH "V" DECKS

*These products simply rotate 90° to move a roll or coil from its side to an end or vice versa. They are often used as palletizers or depalletizers. There are many standard models in our "Lift, Tilt & Turn" catalog and all of those models can be equipped with "V" decks. However, the nature of the roll and coil business is to produce items requiring custom equipment. The following photos illustrate a few of the products that we have designed to suit customer needs.*

**UPENDER WITH ADJUSTABLE "V" DECK**



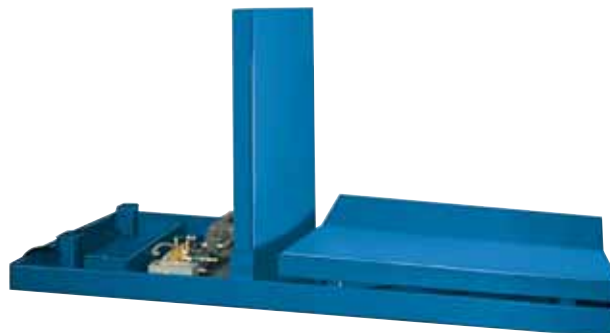
**DEEP "V" DECK UPENDER WITH POWERED CONVEYOR FLAT DECK**



**"V" DECK UPENDER WITH POWERED ROLLER CONVEYOR ON FLAT DECK**



**UPENDER WITH BASIC "V" DECK**



## ROLL AND COIL HANDLING EQUIPMENT

### COMBINATION LIFT WITH UPENDERS OR TILTING "V" DECKS

*Often there are applications that require the combining of a lift with an upender. They need not be as sophisticated and expensive as the automated systems shown at the beginning of this brochure. There are thousands of ways to combine the standard units listed in our "Lift, Tilt & Turn" catalog. If that does not satisfy your needs, then the next step is to create the more custom types of units shown below. These photos illustrate a few of the custom products that we have designed to suit customer needs.*

#### UPENDER ON DOUBLE LONG LIFT



#### DOUBLE LONG LIFT WITH "V" DECK ON RAISED BASE WITH HYDRAULIC "KICKER" AT MID-PLATFORM



#### DOUBLE WIDE LIFT WITH SIDE TILTING "V" DECK ON PORTABLE BASE WITH FLANGED WHEELS



## ROLL AND COIL HANDLING EQUIPMENT

### LIFTS WITH "V" DECKS:

*The simplest form of roll or coil handling equipment is the scissor lift equipped with a "V" deck. Our "Lift, Tilt & Turn" catalog offers many lifts to choose from. Special configurations are always available.*

#### "V" DECK OPTIONS:

- ▶ Standard "V" deck is the full width of the platform and raises 1" per foot from the center of the platform.
- ▶ Deep "V" decks can be constructed with whatever angle and depth you specify.
- ▶ Flat side decks with a shallow "V" in the center of the platform is a common option.
- ▶ Hydraulically adjustable "V" decks are available.
- ▶ "V" decks with one side hydraulically lowered to horizontal for easy roll on or off are available.

#### SCISSORS LIFT OPTIONS:

- ▶ Bellow safety skirts.
- ▶ Turntable base either powered or manual.

#### FLAT DECK OPTIONS:

- ▶ Standard flat deck.
- ▶ Gravity conveyor.
- ▶ Powered roller conveyor.
- ▶ Powered belt conveyor.



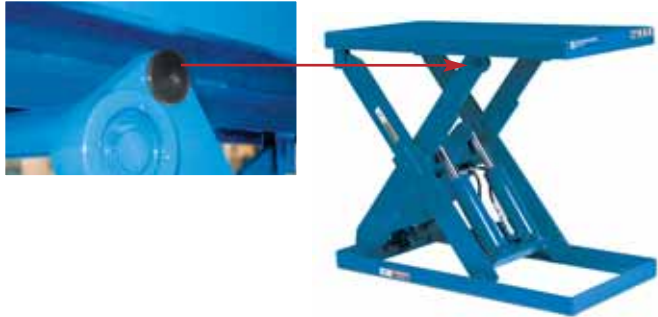
## ROLL AND COIL HANDLING EQUIPMENT

### STRAIGHT LIFTS FOR STACKING & SHEET FEEDING OPERATIONS:

*With many applications, rolls or coils are eventually turned into flat panels or sheets that require stacking. Advance Lifts offers a wide variety of lifts to fit every budget and duty cycle. No one else in the industry provides the warranty life choices that we offer.*

#### **P-SERIES LIFT TABLES: 250,000 CYCLE WARRANTY**

Our standard duty lift table offers the very best value in the industry. These units are equipped with our patented "Platform Centering Device" that eliminates the chief source of wear from incidental off-center loading.



#### **HC-SERIES LIFT TABLES: 1,000,000 CYCLE WARRANTY**

This unit is a hybrid between the P-Series and the Ultra High Cycle units using the "Platform Centering Device" and other wear enhancing features. The ratio of price per warranty cycles beats anything else offered in the industry except our own Ultra High Cycle lift.



#### **UHC-SERIES LIFT TABLES: 3,000,000 CYCLE WARRANTY**

This unit is the Grand Daddy of the industry. It is built more like a machine tool than a scissor lift with awe-inspiring performance.



*REMEMBER – JUST AS WITH THE AUTOMOBILE INDUSTRY,  
WITH NORMAL CARE AND MAINTENANCE, OUR UNITS'  
EXPECTED LIFE IS MUCH GREATER THAN THE STATED WARRANTY LIFE.*