

# Schlumpf Ergonomic Handling Systems



Shown with 6" Mandrel

**LIFT · TURN · TRANSPORT · LOAD · UNLOAD  
· STACK · STORE · PACKAGE · PALLETIZE**



"Back Injuries - Nations Number One Workplace Safety Problem." The U.S. Department of Labor reports that more than one million workers suffer back injuries in the U.S. each year, costing industry billions of dollars on top of the pain and suffering borne by employees. Schlumpf Ergonomic Handling Systems will minimize or eliminate the risk of operator injury and maximize productivity and profits.

- **Low Cost**
- **Modular Design**
- **Simple Function**
- **Made in U.S.A.**
- **Safe, Easy and Economical**

Schlumpf's **VRL-500-TA** (tip assist) for hoist & crane service is an extremely fast, easy and cost-effective solution for lifting and turning rolls with weights to 500 lbs (227 kg) while reducing the risk of costly operator injuries and fatigue.

The **VRL-500-TA** has been designed to operate as a hoist based mechanical lifting and positioning device and can be used to assist when tipping rolls up (Horizontal to Vertical) or laying them down (Vertical to Horizontal). The **VRL-500-TA's** unique pivoting hoist arm design gives the operator the ability to tilt a vertical roll onto it's side in a controlled manner simply by using the hoists lifting function. This feature eliminates the necessity of the operator to manually push the roll to tip it over and prevents unneeded strain. By grabbing the rolls by the core without contacting the rolled material, the **VRL-500-TA's** design reduces the risk of material damage and operator injury associated with "manhandling" heavy rolls.

The **VRL-500-TA** is most commonly used with the Toggle Handle Universal Mandrel in roll lifting and positioning applications. The fail-safe gripper design of the mandrels hold securely at all times and can only be released by the operator. Once the load is supported on a flat surface, simply push the toggle handle down to retract the grippers. A large, ergonomic handle is provided for positioning the hoisted roll or the empty lifter.

\*See our Mandrel information for gripping options and mandrel sizes.

## Standard Features:

- User friendly design.
- Fast and easy to use for all operators and skill levels.
- Turning rolls is nearly effortless.
- Ergonomic design with comfortable handles.
- Quick-change expanding mandrel holder.
- Change mandrel sizes in seconds without tools.
- Rugged steel construction with powder coated finish.
- Simple, low maintenance design.
- Made in U.S.A.

## Specifications:

- Maximum load capacity: 500 lbs (227 kg)
- Machine weight: 20 lbs (9.1 kg)
- Shipping weight: 25 lbs (11.34 kg)
- Shipping dimensions: 13" (330 mm) W x 26" (660 mm) L x 10" (254 mm) H

## Options & Accessories:

- Expanding mandrels 3" (76 mm) to 12" (304.8 mm).
- Pneumatic mandrel retract with control.
- Core stops and extended mandrels for multiple rolls.
- Integrated hoist controls.
- Mounting brackets for hoist pendants & controls.
- Custom configurations available.

**VRL- 500-TA Vertical Roll Lifter**

**Minimize Risk. Maximize Profits!**

Distributed By:

Specifications and dimensions subject to changes without notice. Consult Schlumpf for current drawings! Published 04-2005.



innovation. performance. quality.



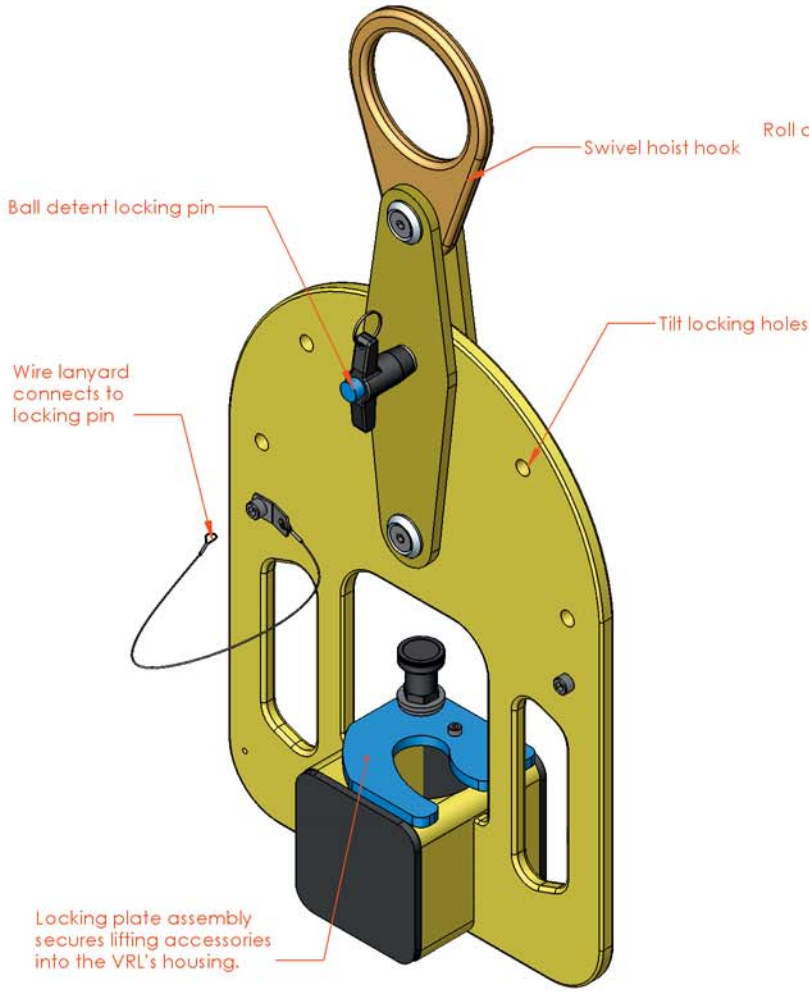
\*Upon Request

-Dimensions subject to change  
 -Custom configurations available

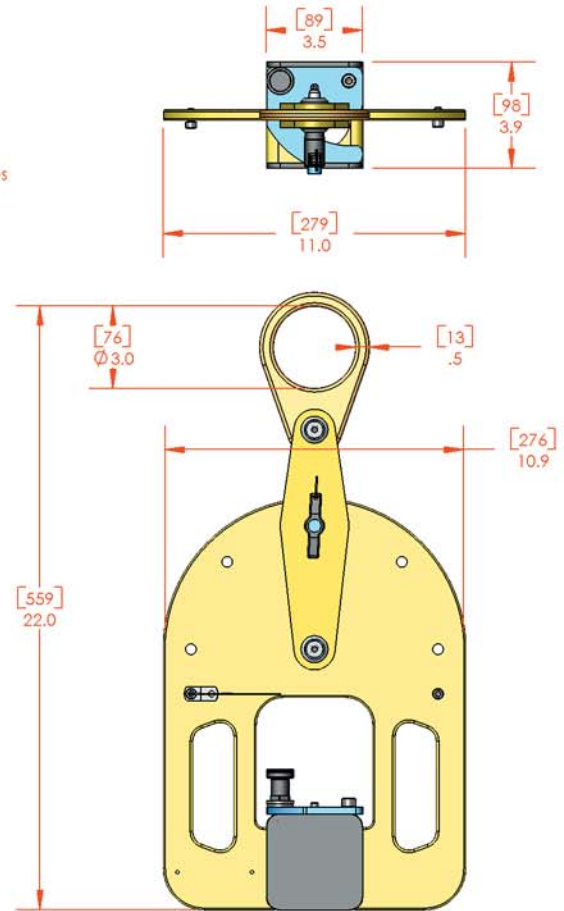
The VRL-500-TA accepts interchangeable  
 lifting accessories to handle a variety of products.  
 See mandrel and tooling options page for details.

The VRL-500-TA is a vertical roll lifter with tilt assist to  
 allow operator to tip rolls from horizontal to vertical and  
 back and has a maximum load rating of 500lb (227kg).  
 Specific machine capacity is determined using the roll  
 weight and dimensions for each application and may  
 limit capacity to less than maximum load rating.

\*Engineering approval required for each application.  
 Roll dimensions and weights must be provided prior to order

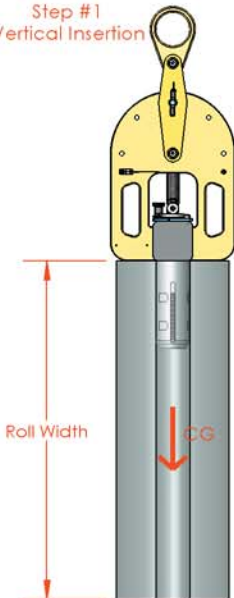


Approx. weight 18lb. (8.2 Kg)  
 \*does not include lifting mandrel

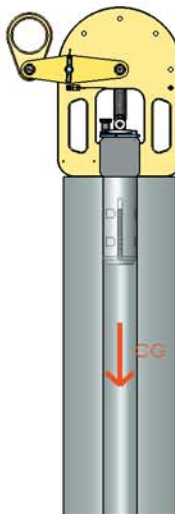


**Roll Tilting Example**

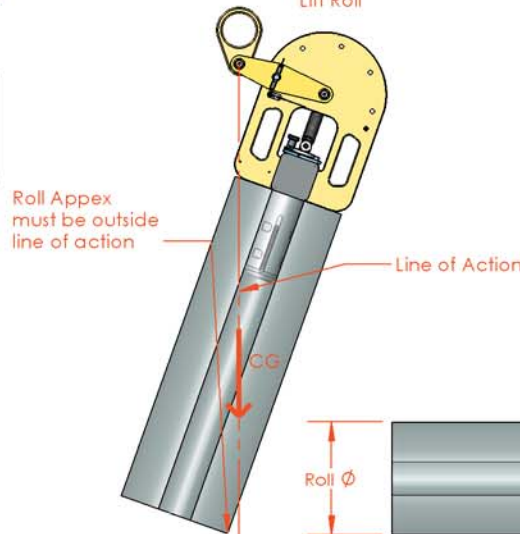
Step #1  
 Vertical Insertion



Step #2  
 Lock Tilt Arm  
 in Horiz. Position



Step #3  
 Lift Roll



Sample roll shown with 3" mandrel  
 See capacity chart for roll size tilting limitations.

Step #4  
 Lower to Horizontal



VRL-500-TA Tilt Chart @ 500 lb.

