Ergonomic Handling Systems

The **VRL-1000-TA** (tip assist) for hoist and crane service is an extremely fast, easy and cost-effective solution for lifting and turning rolls with weights to 500 kg while reducing the risk of costly operator injuries and fatigue.

The **VRL-1000-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-1000-TA** has a unique pivoting hoist arm design gives the operator the ability to tilt a vertical roll onto its 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-1000-TA**’s design reduces the risk of material damage and operator injury associated with “manhandling” heavy rolls.

The **VRL-1000-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.

The stats don’t lie! Workplace safety is important!

‘Back Injuries’ are the nation’s number one workplace safety problem - it’s even an issue that spans internationally. According to the United States Department of Labor, it is reported that more than one million workers suffer a back injury in the country, each year. This costs the industry billions of dollars on top of the pain and suffering borne by employees. In Australia, Safe Work Australia reports that $61.8 billion dollars was spent on work related injuries and 90% of claims made were due to injury (December 2017). Our Ergonomic Handling Systems will minimise and eliminate the risk of operator injury, to maximise productivity and profits.

**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 kg
- Machine Weight - 34 kg

**Options & Accessories:**
- Expanding mandrels, 76 mm to 304.8 mm.
- Pneumatic mandrel retract with control.
- Core stops and extended mandrels for multiple rolls.
- Integrated hoist controls.
- Mounting brackets for hoist pendants and controls.
- Custom configurations available.

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

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**LIFT · TURN · TRANSPORT · LOAD · UNLOAD · STACK · STORE · PACKAGE · PALLETISE**
VRL-1000-TA Capacity Chart
Max Weight: 500 kg
VRL-1000-TA, Vertical Roll Lifter / Tilter

The VRL-1000-TA accepts interchangeable lifting accessories to handle a variety of products. See mandrel and tooling options page for details.

The VRL-1000-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 1000 lb (454 kg). 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.

Swivel hoist hook

Roll detent locking pin with wire lanyard

Approx. weight 76 lb (34.5 Kg) *does not include lifting mandrel

Roll Tilling Example (actually unit not shown)

Step #1
Vertical Insertion

Step #2
Lock Tilt Arm in Horz. Position

Step #3
Lift Roll

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

Roll Width

Roll Apex must be outside line of action

Line of Action

CG

Step #4
Lower to Horizontal

CG

CG

CG