

# MANUAL ROLL TURNER MRT-330 SPECIFICATIONS

## Ergonomic Handling Systems

The MRT-330 is a hoist based manual roll turner. It's engineered to assist operators in efficiently lifting and turning products with weights to 150 kg. The unit features our quick change tooling design that accepts both standard and custom tooling accessories for grabbing a variety of products.

Most often used with standard roll handling mandrels the MRT-330's amazing turning function enables operators to turn even heavy loads with minimal effort and no external power source. Supplied with a movable hoist point mechanism, the MRT-330 can quickly be adjusted for varying roll widths to ensure exact horizontal and vertical positioning. Rolls can be turned as quickly as the operator can move making for safe, rapid handling of your valuable product. By removing the need to 'man-handle' heavy loads, the MRT-330 reduces the risk of operator injury and fatigue making your workplace safer and saving you money.

Among the many accessories offered are integral pneumatic roll pushers, anti-telescoping attachments and auto-leveling systems.

Minimise Risk. Maximise Profits!

LIFT · TURN · TRANSPORT · LOAD · UNLOAD  
· STACK · STORE · PACKAGE · PALLETISE

## The stats don't lie! Workplace safety is important!

'Back Injuries' are the nations number one workplace safety problem! A problem that even spans internationally. According to the United States Department of Labor, it is reported that more than one million workers suffer back injuries 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 or eliminate the risk of operator injury and maximise productivity and profits.

### Standard Features:

- User friendly design.
- Fast and easy to use for all operator and skill levels.
- Simple centre-of-gravity adjustment.
- Ergonomic design with comfortable handles.
- Two-hand safety lock prevents unintentional rotation.
- Quick-change expanding mandrel holder.
- Change mandrel sizes in seconds without tools.
- Rugged steel construction with powder coated finish.
- Simple, low maintenance design.
- Low ongoing operating costs.
- Modular design.
- Made in U.S.A.

### Specifications:

- Maximum load capacity: 150 kg
- Roll width for minimum turning resistance of 356 mm
- Maximum roll width: 750 mm
- Maximum roll diameter: 1118 mm
- Centre-of-gravity adjustment +/- 152mm
- Machine weight: 16.4 kg
- Shipping weight: 20.4 kg
- Shipping dimensions: 610 mm W x 610 mm D x 460 mm H

### Options & Accessories:

- Expanding mandrels 75 mm to 300 mm.
- Anti-telescoping attachment with manual clamp.
- Anti-telescoping attachment with pneumatic clamp.
- Extended turner for greater roll widths.
- Integrated hoist controls.
- Mounting brackets for hoist pendants and controls.
- Custom configurations available.



Shown with 75mm Mandrel and Core Stop

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

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



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**Handling** PTY LTD *Working with ease.*

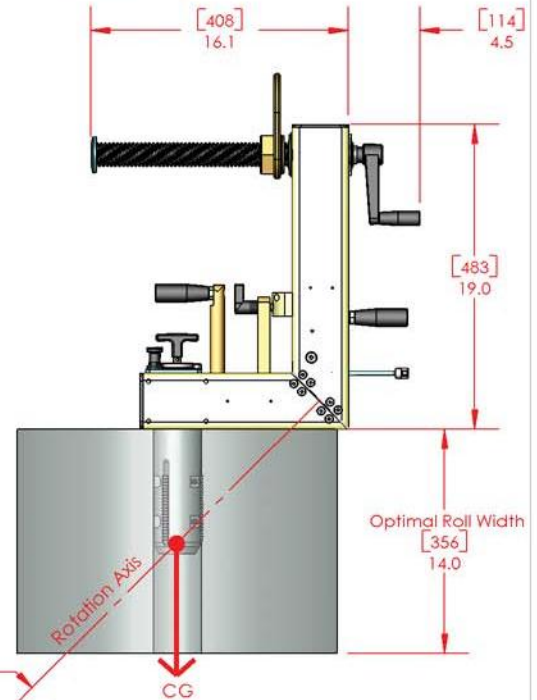
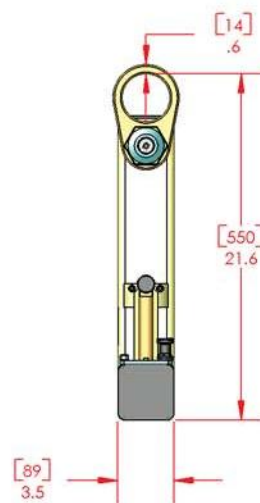
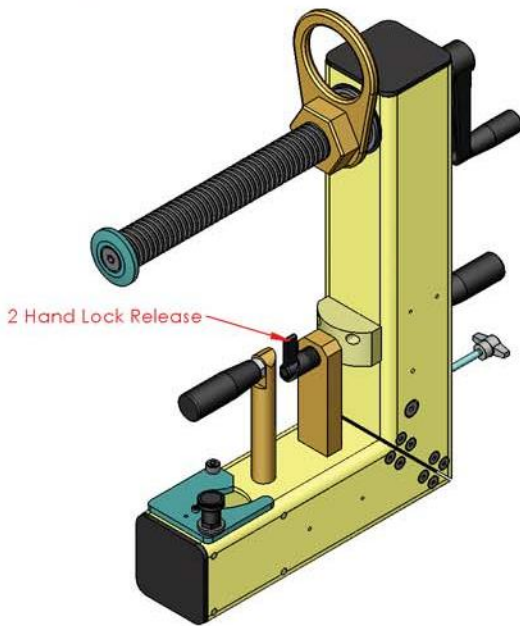
# Ergonomic Handling Systems - MRT-330 Manual Roll Turner

- Dimensions subject to change
- Custom configurations available

The MRT-330 accepts interchangeable lifting accessories to handle a variety of products. See Mandrel and tooling options page for details

The MRT-330 is a manual roll turner and has a maximum load rating of 330lb (150kg). Specific machine capacity is determined using the roll weight and dimensions for each application and may limit capacity to less than maximum load rating.

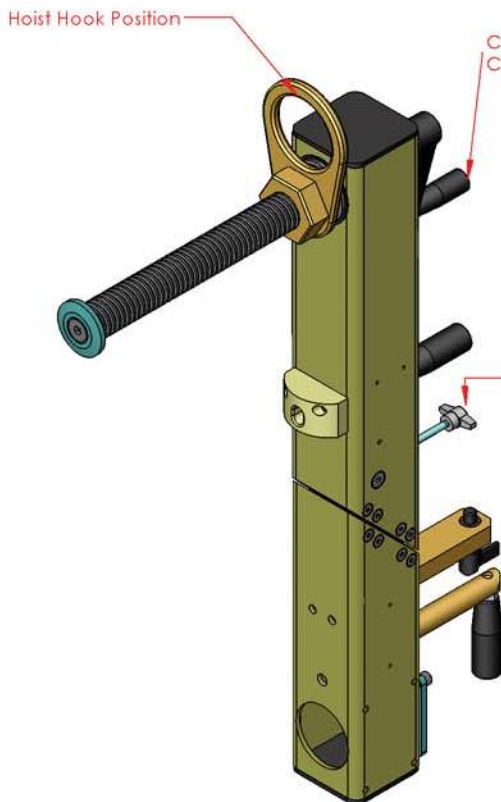
## Roll Vertical Position



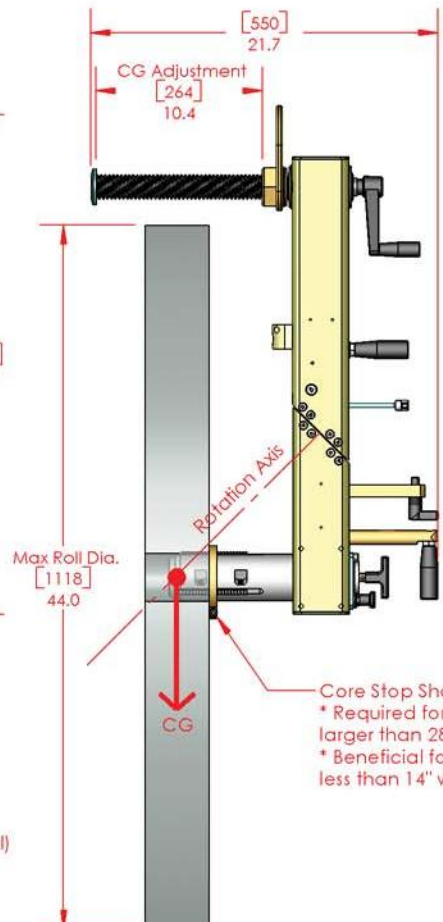
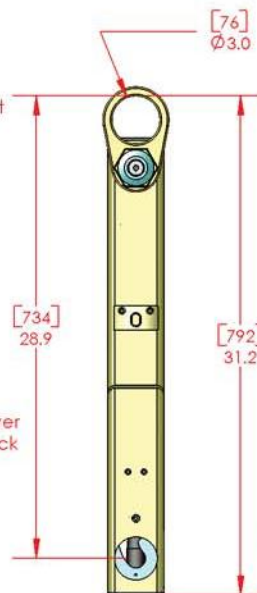
Rotating effort is decreased the closer the roll center of gravity (CG) is to the rotation axis

MRT shown with 3" T-Handle Mandrel and Sample Roll

## Roll Horizontal Position



Crank Handle  
CG Adjustment



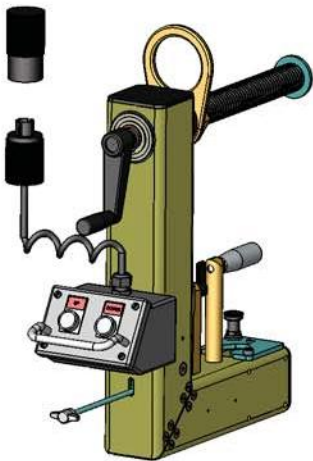
Approx. weight 36 lb. (16.4 Kg.)  
(Weight does not included mandrel)

Core Stop Shown  
\* Required for rolls larger than 28" dia.  
\* Beneficial for rolls less than 14" wide



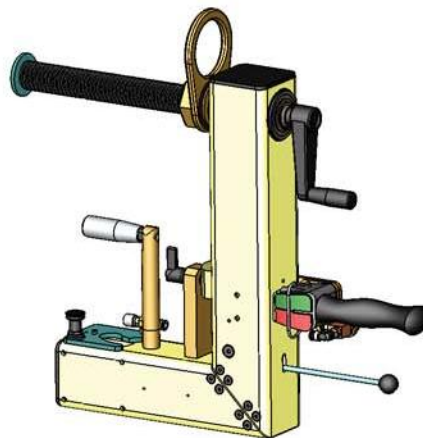
# Ergonomic Handling Systems - MRT-330 Options and Accessories

## Integrated Hoist Control Examples



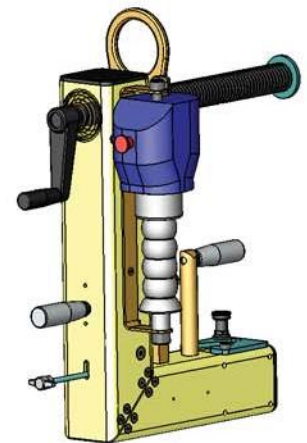
Electric Hoist Controls

- \*Single or 2 speed electric pushbuttons
- \*Quick disconnect control cord



Air Balancer Controls

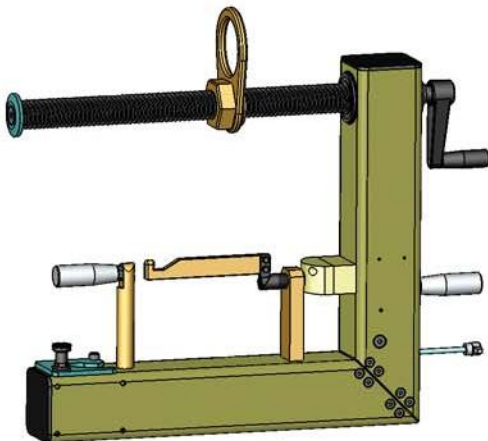
- \*Direct air supply and control integration
- \*Optional pneumatic retract integration



G-Force Remote Mount

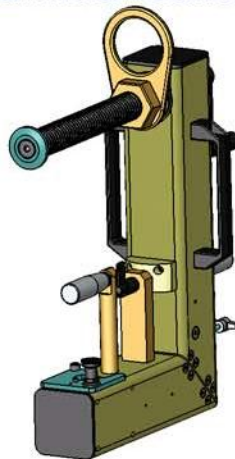
- \*Utilize remote mount feature on G-Force
- \*\*"Float Mode" allows 2 hand operator control

## Special Modification Examples



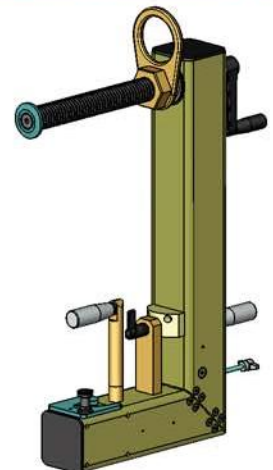
Optimized Roll Width

- \*Custom mandrel arm & screw lengths
- \*Required to handle increased roll widths



Pull Handles

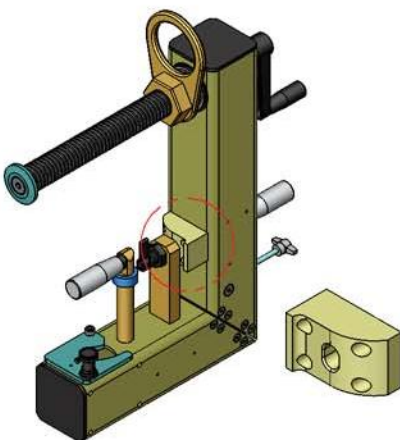
- \*Side pull handles for increased control



Optimized Roll Diameters

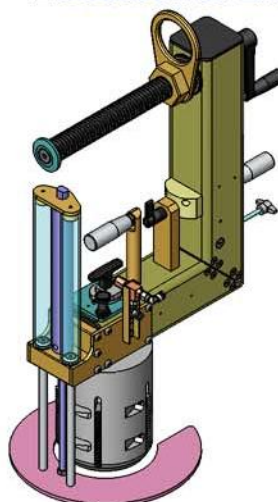
- \*Custom crane arm lengths (shorter or longer)
- \*Required to handle increased roll diameters

## Accessories Examples



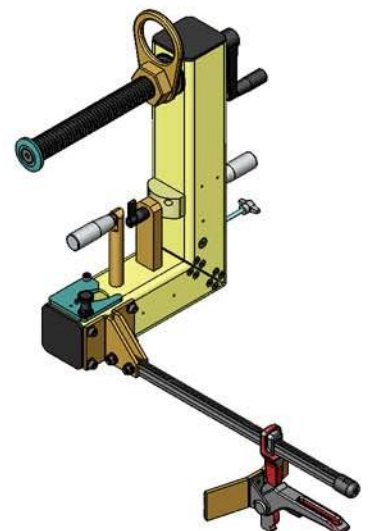
Uni-directional Cup

- \*Allows rotation in only one direction
- \*Drop in replacement, reversible mount



Pneumatic Roll Pusher

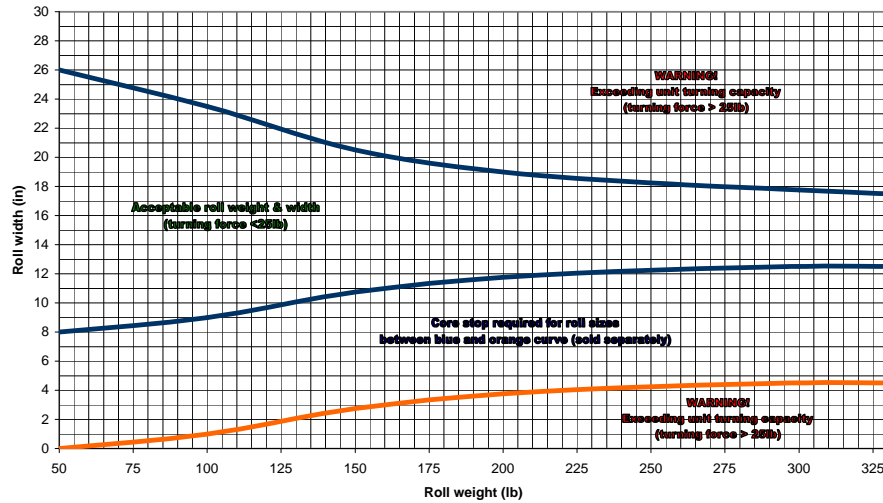
- \*Pushes roll off mandrel when grippers are retracted
- \*Best results if mandrel is coupled to horizontal shaft



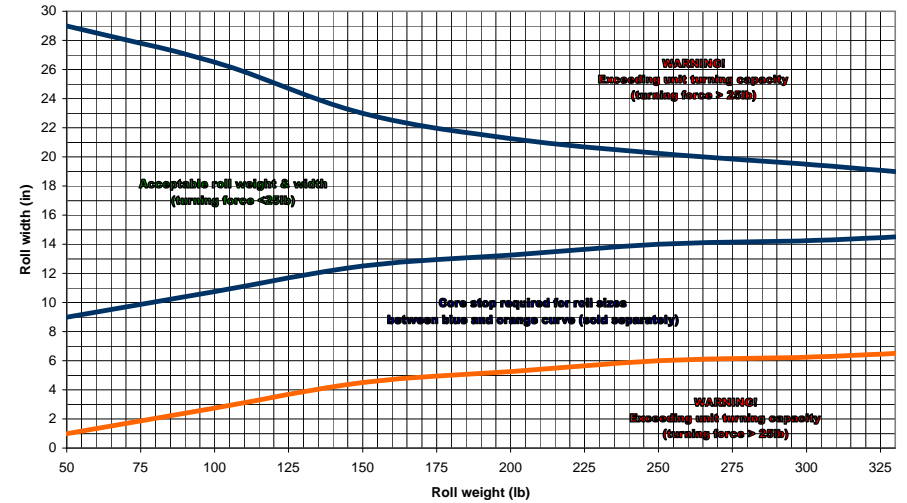
Anti-telescoping Device

- \*Clamps outside of roll to prevent telescoping

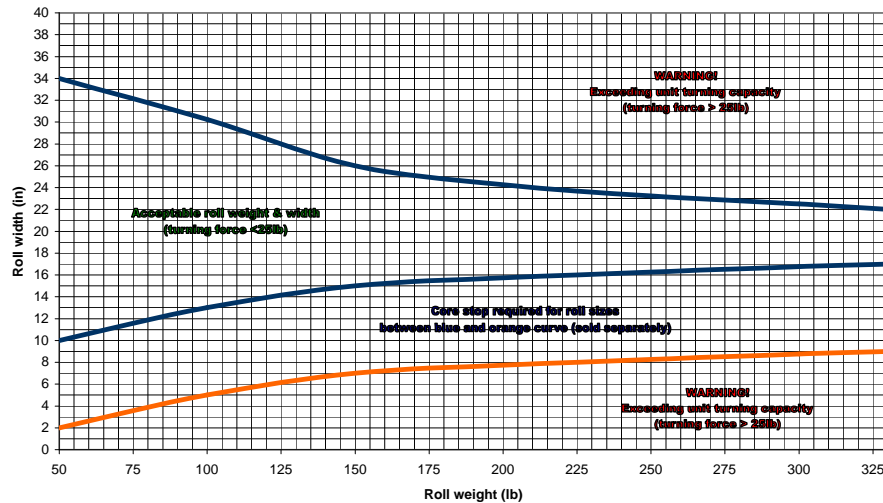
MRT-330 capacity range - 12.75" mandrel arm



MRT-330 capacity range - 13.75" mandrel arm



MRT-330 capacity range - 15" mandrel arm



MRT-330 capacity range - 16.25" mandrel arm

