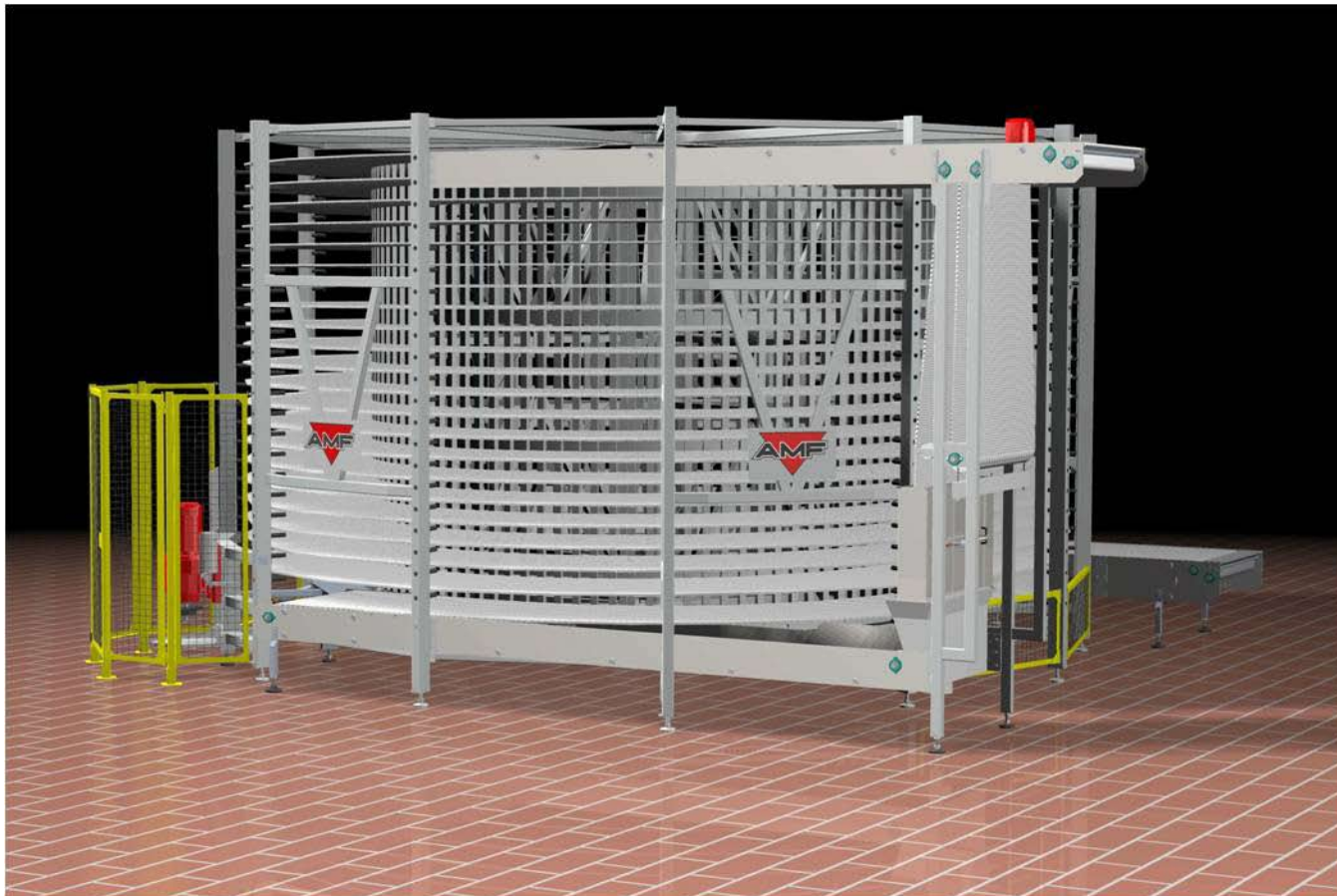


SPIRAL COOLER



- **Low Tension Spiral Coolers are Designed for High Operating Efficiency at Minimum Power Requirements**
- **Design Options Allow Most Efficient Use of Available Plant Space**

FEATURES & BENEFITS

Heavy Duty Construction

- Quality materials and components assure high performance, minimum maintenance, and longevity
- Stainless steel tubing frame

Trouble Free Installation

- Modular cage main drive, infeed conveyor, and discharge conveyor allow fast installation and start-up

Easily Accessible Controls

- Electrical controls are mounted for easy access and accurate operation

Reduced Maintenance Design

- Cooler belting rides on low friction rails for even, continuous support with minimum friction
- Standard plastic belt minimizes black specks and noise
- No need for vertical cage bar caps
- No need for belt flipping to compensate stretching

SPIRAL COOLER

MECHANICAL FEATURES

New Sprocket Design

- Reduced maintenance cost and downtime
- Bolt-on tooth segments allow for tooth only replacement if necessary

New Idler Wheel Design

- Reduced maintenance cost and downtime
- Bolt-on outside ring segments allow for ring only replacement if necessary

New Bolted Frame

- All units (drive, 90° and 180° turns) have bolted frames
- Shaft and disk can be changed quicker eliminating need to take the entire unit down to replace the shaft and disk. Bottom frame section can be unbolted to slide shaft and disk out.

Support Structure

- Stainless steel adjustable leveling leg pads on support structure
- Operator guard panels included

Main Cage and Drive

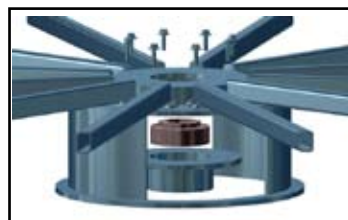
- True low tension Capstan drive principle for Spiral Cooler longevity
- Stainless steel cage surface insures appropriate friction and proper belt tension dissipation
- Assessable, regreasable upper and lower cage axis bearings
- Easily adjustable cage main drive teeth segment (no welding required)
- Automatic main drive chain oiler and collection pan included
- Drive chain over tension safety sensor
- Chain engagement sensor

Spiral Belt Drive System

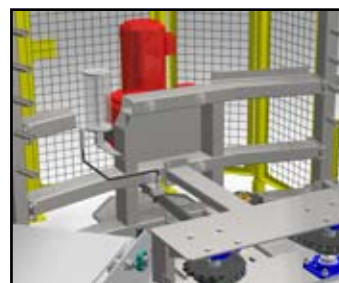
- Stainless steel shafts
- Sealed bearings
- UHMW sprockets
- Plastic non-stretch dual sided sanitary belt
- High quality product transfers
- Belt take-up limit sensors
- Belt flip detection safety switches
- Formed track design



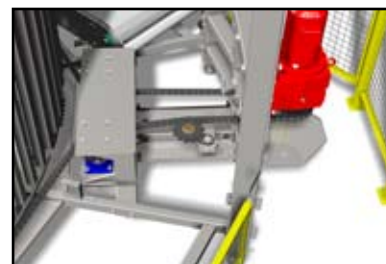
Adjustable Leveling Leg



Accessible Axis Bearings



Automatic Chain Oiler



*Main Drive Chain Tensioner
and Collection Pans*



High Quality Product Transfers

ELECTRICAL FEATURES

- NEMA 12 painted steel free standing electrical enclosure
- Allen Bradley door mounted fusible disconnect switch
- Allen Bradley Powerflex variable AC inverters for each cooling tower main and take-up drives
- Allen Bradley PanelView 600+ keypad grayscale operator interface with precise alarm messages
- Allen Bradley MicroLogix 1400 processor
- Cooler controls
- Cooling time indicator and set point
- Cooler main and take-up drives amperage indications
- Alarm history screen
- Air conditioning unit
- Main and take-up drives overcurrent safeties
- Operating hour meter
- Alarm beacon
- Alarm buzzer
- Allen Bradley pushbuttons:
 - Alarm acknowledgement/reset
 - Emergency stop/MCR reset
- Emergency stop-pull safety cord for each tower



Electrical Panel



OPTIONS

Mechanical Options

- Belt washer for down time belt cleaning
- Vinyl under guard for improved safety and sanitation between tower cross over
- Infeed and outfeed conveying systems and controls
- 2nd drive system
- Ladder and platform to access take-up gearmotor

Electrical Options

- Allen Bradley main breaker
- NEMA 12 stainless steel electrical enclosure
- Other operator interfaces on request
- PLC other than standard

SPECIFICATIONS

Electrical Requirements

PLC I/O Voltage: 24VDC in/120VAC out

Belt Material:

Blue Acetal standard

Nylon heat-resistant optional

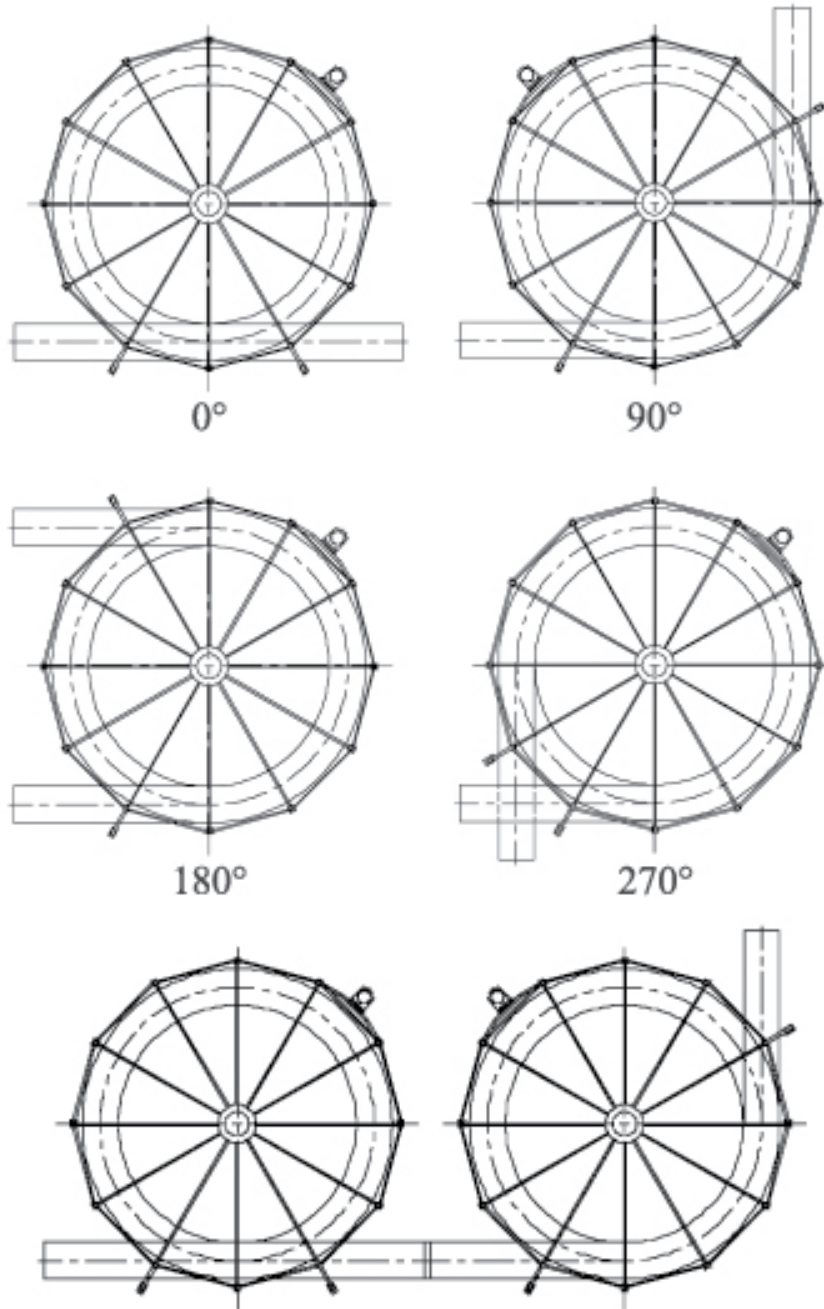
Available Configurations

Belt Width: 24" to 60" (610 mm to 1524 mm)

Tier Spacing: 6" to 9" (152 mm to 229 mm)

SPIRAL COOLER

DIMENSIONAL DRAWING



TYPICAL DUAL TOWER CONFIGURATION
0° INCLINE AND 90° DECLINE

Headquarters:
2115 W. Laburnum Ave.
Richmond, Virginia 23227
Tel: 1-800-225-3771
or 1-804-355-7961
Fax: 1-804-342-9724
sales@amfbakery.com

Europe Office:
6 The Sidings
Station Road, Guiseley
Leeds LS20 8BX, England
Tel: 44-1943-875703
Fax: 44-1943-871806
sales-europe@amfbakery.com

Asia Office:
Room 15-2, A-Building
Thunis Dev. Building
No.11 Hui Xin East St.
Chaoyang District
Beijing, China 100029
Tel: 86-10-64823613
Fax: 86-10-64934259
sales-asia@amfbakery.com

FOR MORE INFORMATION PLEASE CALL YOUR ACCOUNT MANAGER OR

1-800-BAKERS-1
www.amfbakery.com

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