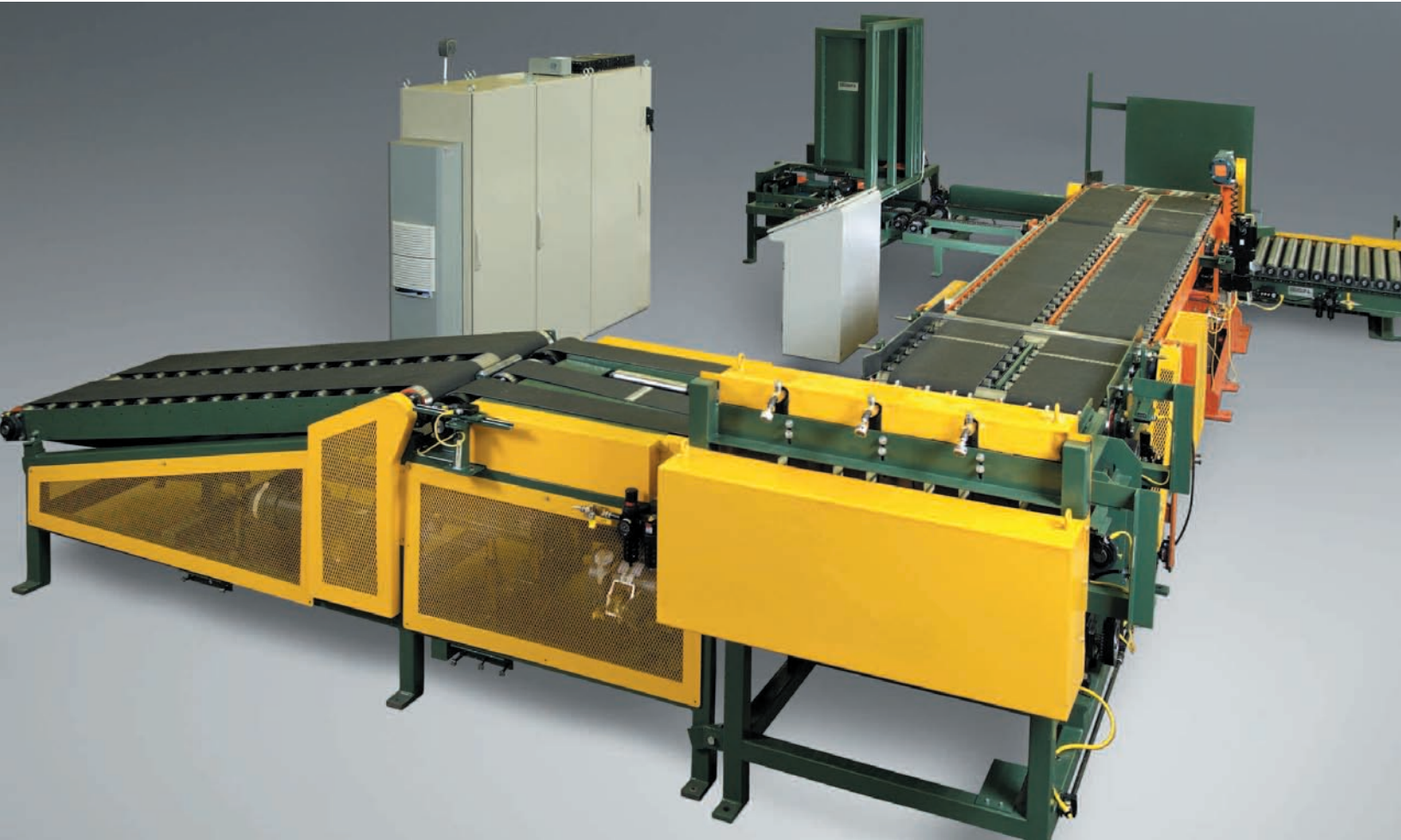


# Bundle Palletizing System



**The Design of Choice for  
the Shingle Roofing Industry**

# Achieve Greater Productivity

## Bundle Palletizing System BP20-10



### Incline and Patterning Conveyor

An all new Incline and Patterning Conveyor featuring:

- 12" wide belts with V-groove belting
- Externally accessible belt tensioning
- Structural tubing framework
- 2 HP drive motor



### Adjustable Height Conveyor

- External belt take-up adjustments
- Weight is distributed to reduce load on the scissors lift
- Eliminates the need for sliding pillow block attachment



### Lug and Transfer Conveyor

- Structural tubing framework
- Heavy duty 80# lug chain and sprockets
- Replaceable lug wear face
- Reinforced back stop
- V-groove transfer belts
- Externally accessible belt tensioning
- Air motor driven entry rollers
- Servo driven lug chains and transfer belts
- Stop gate has been eliminated



## A well-designed palletizer that runs consistently is critical to overall productivity and profitability.

For decades, Reichel & Drews has been recognized as the leading designer of palletizing systems for the roofing industry.

Reichel & Drews design engineers have redesigned the palletizing system to provide a system that delivers nearly 100% uptime with low maintenance. The result is the most durable, reliable, consistent and highest value palletizing system available in the roofing industry.



### Shuttle Conveyor

- Powered conveyor with programmable stroke length up to 50" (1270 mm)
- Servo motor for smooth, quiet operation
- Cam follower style linear bearings
- Belt take-up for conveyor belts provides easy drive belt access and tensioning
- Shuttle top can be moved with servo power off
- Power shuttle nose with driven belts transfers bundle from the shuttle conveyor to the pallet for controlled, precise placements; "flip up" feature allows greater access for easier maintenance
- Squaring of bundle layers is achieved with an air cylinder mounted to the fixed shuttle frame for extended component service life and consistent squaring pressure



### Deceleration Proportional Valve

- Sun Hydraulics manifold to contain Rexroth proportional directional valve with spool position feedback, and a by-pass check for deceleration of scissors lift
- Decel valve sensor mounts to the side of the table to sense table height to provide better response and position
- System allows for smoother stops, reduced hydraulic shock and longer scissors component life
- System is failsafe on loss of power



### Reichel & Drews Scissors Lift Design

- 40" (10,000 lb.) wide scissors for greater stability
- 20 degree angle cylinder in lower position for more capacity and less working pressure
- Spherical bearings in major pivot point 2 15/16" diameter
- Spherical bearings in secondary pivot point for better alignment
- Heavy duty support structure, table and floor mounting
- Drop down in two seconds (bigger proportional valve 40 GPM and larger hose 1" vs. 1/2", oversize port on cylinder 1" vs. 3/4")
- Bearings in cylinder clevis
- Open design will not collect debris
- 3" diameter McGill Trakrol cam roller with easy access to facilitate maintenance
- Hardened replaceable wear strips
- Twin 3000 pound rated Rexroth hydraulic cylinders

### Features:

#### Durable

- Robust structural steel tube frame designed for high cycle rates
- Increased shaft, bearing, chain and drive sizes
- An enhanced and upgraded scissors lifting system – 10,000 lb. (4,535 kg) capacity with an integrated hydraulics package

#### Reliable and Consistent

- All articulated functions are servo-driven
- The latest control and drive technology
- Optimized belt tracking and tension systems throughout
- Up to 50 bundles per minute

#### Economical

- Reduced installation costs
- Lower operation and maintenance costs

- 4" bore x 12" stroke, 2" rod, 1.5" - 12 male threaded rod, rear clevis mounting, oversized ports
- 10,000 net pound (4,535 kg) lifting capacity at 3000 PSI, normal operating pressure 1100 psi



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