HEAT TRANSFER SYSTEM

BY:

Corrugated Gear and Services, Inc.
The Dual-Action cylinder maintains constant pressure regardless of board thickness.
Dual-Action Cylinder with Hi-Temp Components

Anti-Tilt Bar

Reduced Moving Parts Per Shoe To 4!

Heavy Duty Precision Engineered Shoes
• Anti-tilt feature keeps shoes level – no trapping of heat/moisture at edges (patent pending)
• Each bar can be adjusted either manually or automatically
• Full or partial integration with all popular corrugator control systems available
WHY DO YOU NEED THE HOTFOOT?

NARROW BOARD WITH WEIGHT ROLLER

(Image exaggerated for clarity)

MAXIMUM PRESSURE (crushing edges)

MINIMUM HEAT TRANSFER

Edge Crushed

Steam Can’t Escape

STEAM CHEST W/CENTER SAG
NARROW BOARD WITH HOTFOOT HEAT TRANSFER SYSTEM
PRESSURE DISTRIBUTION

Normal pressure required for MAXIMUM heat transfer is .14 - .20 P.S.I.

HOTFOOT v/s Weight Roller

Distributes Optimal Pressure With Greater Coverage Area
Even if fixed pressure spring-loaded transfer devices are adjusted to exert even pressure across the hotplate, they cannot be easily adjusted to compensate for a difference in board thickness. If the spring-loaded device is adjusted for ideal pressure on B-flute, it will create excessive pressure and drag on C-flute and double-wall.
It is very important to maintain the proper pressure on the web, in order to maintain maximum heat transfer, without creating excessive drag. Pressure greater than .3 PSI will cause the double backer drive to draw excessive current and premature belt wear without increased heat transfer. The graph below illustrates this point.
Simplified controls – now standard on all systems!

Outer shoe lift

Center shoe over-ride

System pressure

Bar “UP – DOWN”

No operator changes needed when changing flutes/grades
What HOTFOOT does for you!

• Transfers more heat – more evenly.
• Because it’s adjustable across the web, edge crush is virtually eliminated.
• HOTFOOT™ compensates automatically for “highs”, “lows”, and the continuous changes to your hot plates.
• Since you use minimal pressure, HOTFOOT™ can result in significant power savings.
HOTFOOT™ Technology for your Traction Section!

• Now **ADJUSTABLE** pressure for your traction section!
• Stop spending weekends changing out worn rollers and bearings
Simplicity meets Affordability with this “little brother” of the original HOTFOOT™
• Works with ALL flutes and grades
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• Consistent, optimal pressure for max. heat transfer
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• “Set It and Forget It” Thermal Logic Technology
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• Consistent, optimal pressure for max. heat transfer

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• Virtually NO operator adjustment required