



# TELEBELT®

## TRICKS of the TRADE

Volume: 12182006 • December 2006 • PMA 0010-18 TB

Inside This Issue:



### Pervious Concrete Hopper Update

2



Zero slump, countless opportunities. Lack of excess water means that placement must occur very quickly. Pervious concrete is the mix of the moment and a Putzmeister Telebelt conveys it with ease.

## Pervious Concrete: An Eco-Friendly Paving Solution

### Putzmeister Telebelts®: The Solution to an Unpumpable Mix

While pervious concrete may be new to some, the paving material has been around since the mid-19th century and was originally known as “no-fines” concrete. Since its early development, pervious concrete has come a long way. (See story on Page 2.)

www.putzmeister.com

**Putzmeister**  
COMPLETE CONCRETE PLACING SYSTEMS AND SUPPORT

NEWS PRODUCTS USED EQUIPMENT SUPPORT ABOUT US EMPLOYMENT MERCHANDISE

ADVANTAGES PUTZMEISTER TECHNOLOGY LEADING IN THE BUSINESS

**Telebelts® - A Putzmeister Exclusive**  
Proudly made in America, Putzmeister's Telebelt® telescopic belt conveyors are ideal for placing a variety of materials at high volume. From concrete to gravel, rock, backfill and more. Telebelts save time, labor and cost work in tight spaces.

Telebelts®  
Placing Systems  
BSA Trailer Pumps  
Truck Mounted Line Pumps  
Team-Lady®  
Mortar Machines  
Water Technology  
Industrial Pumps

Advantage: **Products - Telebelts**

Telebelts® - A Putzmeister Exclusive  
Proudly made in America, Putzmeister's Telebelt® telescopic belt conveyors are ideal for placing a variety of materials at high volume. From concrete to gravel, rock, backfill and more. Telebelts save time, labor and cost work in tight spaces.

TS 90 TS 130 TS 134 Expert Model

Order Here

Home | News | Products | U.S. & Canada | International | Contact Us

Putzmeister America, Inc.  
1133 80th Street, Southport, IN 46788  
Phone: (219) 396-1000 • Fax: (219) 396-1001  
© 2006 Putzmeister America, Inc.

**Putzmeister Advantages**

- Low Clearance Projects
- Handles various Materials
- Saves Time and Labor
- Placement Versatility
- Moving the Telebelt® on Site
- Setup Convenience
- Shorter Learning Curve for Operators and Mechanics
- Service as Close as Your Cell Phone
- Factory Training and Documentation

Putzmeister Telebelts offer versatility that simply can't be matched by other placing equipment. To see video clips of Telebelts in action conveying pervious concrete and other materials, please visit the Telebelt Advantages section on our web site at [www.putzmeister.com](http://www.putzmeister.com). You will also find helpful downloads and articles that are updated frequently.



You can also order a complimentary copy of our new Telebelt® Versatility In Motion DVD at [www.putzmeister.com](http://www.putzmeister.com).



# TELEBELTS® PLACE PERVIOUS CONCRETE FAR MORE EFFECTIVELY THAN READY MIX TRUCK CHUTES

*With the word spreading throughout North America that pervious is more eco-friendly than conventional concrete, the mix is becoming increasingly common in areas needing to control storm water and pollutants introduced to the soil via runoff. While the jury is still out on the viability of pervious in areas affected by freeze-thaw conditions as well as the material's long-term durability, the opportunities seem endless.*

## In the Mix and On the Site

A porous, gap-graded, permeable, or enhanced-porosity material, pervious concrete is a mix of Portland cement, little or no fine aggregate, water admixtures, open-celled stones and gravel.

What makes pervious concrete so different from conventional concrete is what also makes it so challenging to place. With a mix that produces a hard material connected by pores that water can pass through easily, pervious has a void content ranging from 18 to 35 percent. Its lack of excess water means that placement must occur very quickly. A zero-slump concrete that is virtually unpumpable, pervious is an ideal material to be placed with a Putzmeister Telebelt.



Quinn Concrete Pumping placed pervious concrete for the MGM Residence Towers in Las Vegas for a drive entrance. The pour was easy with their Putzmeister Telebelt® TB 130.

## Where there's a will to place a harsh mix, there's a Telebelt® way

Use of a Telebelt to place pervious concrete is more effective than simply using the chute of a ready mix truck. The mix can quickly be conveyed up the feeder to the main belt and placed exactly where

it is needed. A Telebelt also reduces construction traffic, keeping ready mix trucks at the curb which helps avoid compaction of underlying soil layers that are essential to a pervious system.

## Tips for successful placement of pervious concrete:

- Permeability of soils should be verified. For best results, a percolation rate of .5 in/hr (13mm/hr), and a soil layer of 4 ft (1.2m) or more are generally recommended.
- Construction site runoff and heavy equipment should be kept from entering the pervious pavement area.
- Pervious concrete pavement should not be placed until all land that drains to it has been stabilized by vegetation.
- Strict erosion and sediment controls during any construction or landscaping activity are essential to prevent clogging of the system and should be incorporated into the construction site storm water management plan.
- Construction traffic (primarily vehicular) should be directed away from the pervious pavement area during construction to prevent compaction of underlying soil layers and loss of infiltrative capacity.
- Ideally, pulling or shoveling pervious concrete into final position should be avoided. Filling voids with concrete is also detrimental to the final product. Rolling and troweling will provide a consistent surface.



Engelman Construction on their December 2005 jobsite.

## Applications of Pervious Concrete Today

- Surface course for parking lots, roadways and minor road trips
- Greenhouse floors
- Structural wall applications where lightweight or better thermal insulation characteristics, or both, are required
- Pavement, walls and floors where better acoustic absorption is desired
- Surface course tennis courts, zoo areas, and animal barns and stalls
- Swimming pool decks
- Beach structures and seawalls
- Solar energy storage systems
- Wall lining for drilled water wells
- Artificial reefs where the open structure of pervious concrete mimics the reef structure
- Permeable bases and edge drains
- Noise barriers and building walls



Like the Telebelt®, pervious concrete is incredibly versatile.

Engelman Construction turned to a Putzmeister Telebelt® TB 110 for help to place 40 yards of pervious concrete on this Fogelsville, PA, job site. The parking lot pour, one of many applications pervious concrete is used for, took a total of three hours to complete.

## Advantages of Pervious Concrete Today

Throughout its evolution, many advantages of this unpumpable concrete have been discovered. It is primarily known for one advantage – controlling storm water runoff and water pollution in storm-laden areas. Reducing hydroplaning on the surface of roads and highways, creating additional lift to aircraft during takeoff, reducing glare on road surfaces, minimizing the interaction noise between the tire and pavement and reducing the size of or eliminating the need for storm sewers are just a handful of the other advantages pervious concrete brings to the job site. As pervious concrete continues to be used, more advantages are sure to be revealed.



The Engelman team only had to position the Telebelt® TB 110 at one location for the entire pour with no remobilization necessary.

## Pervious Concrete Surface Maintenance

*After the placement of pervious concrete, what's next? Proper maintenance of the surface determines success over time. Pressure washing, which forces contaminants down through the pavement surface, or power vacuuming, which removes contaminants by extracting them from pavement voids are the two recommended approaches. Using both methods in tandem will help ensure the functionality of a pervious concrete surface.*



*Putzmeister Water Technology's line of high pressure water jetting equipment are perfect for maintaining a pervious surface. For more information please visit [www.putzmeister.com](http://www.putzmeister.com) or contact Eric Zimmermann at [zimmermanne@putzam.com](mailto:zimmermanne@putzam.com).*

## The “Dirt” on the Soil Hopper

Putzmeister’s new Soil Hopper is the same size as the Rock Hopper, but offers enhanced features to facilitate smooth delivery of dirt and other flowable fill to the feeder.

Eliminating the worry of large objects entering the hopper that may restrict the flow of material to the feeder or damage the system, the Soil Hopper is designed with an attached grate which may be raised or lowered, as needed, to accommodate equipment feeding the hopper.

Once material is in the hopper, it moves through a hydraulic auger that is powered by a spare circuit on the Telebelt®. No additional power supply is required. This feature helps maintain a smooth, fast and uninterrupted flow which reduces problems at the transfer. It is especially helpful for soil or other fill that tends to “bridge.”



The attached grate prevents the introduction of foreign material into the hopper.



A hydraulically-controlled auger keeps flowable fill entering the hopper moving smoothly onto the feeder belt.

## Rock Hopper Increases Productivity



The Rock Hopper, along with the Low Profile Hopper, is the ideal choice if your job requires high output using large loaders.

Keeping the area around your feeder clear is critical to maintaining the life of your belt. The potential for disaster is high when piles are allowed to form around the tail pulley. The material can stall the belt and/or cause rock holes.

When a job requires placement of material on your feeder using equipment with a larger loader, the Rock Hopper is an ideal choice. The wide, three cubic yard capacity and ample 72" x 120" top opening handle tough jobs with ease. The Rock Hopper’s adjustable legs can be set anywhere from 83" to 98", to accommodate the positioning of the feeder.

You can also combine the Rock Hopper with a Low Profile Hopper for even greater efficiency. At only eight inches above the rails, this aluminum hopper fits nicely under the Rock Hopper, enabling you to load the feeder while preventing the formation of piles.

The Low Profile Hopper allows the use of the feeder legs, which decreases feeder angle and keeps the tail pulley off the ground.

To further avoid issues that may result in downtime, it is important to protect the tail pulley from damage caused when loaders spill material around the hoppers. When using the standard folding hopper, we recommend folding the feed conveyor’s legs and setting the conveyor tail on blocks.

Together, these tricks will help you place material quicker and more efficiently while ensuring the longevity of your machine.



The Rock Hopper/Low Profile Hopper combination keeps the tail pulley off the ground. The reduced feeder angle offers greater efficiency.

## TECH NOTES:

### Prevent Leaks & Keep Your Feeder Belt Clean

When placing concrete with a Telebelt, it is important that the back panel skirt seals against the hopper side. To ensure a proper fit, cut a 1 1/2" slit, even with the bottom of the plastic hopper side, in the back panel skirts.



If you have further questions, refer to your Operators Manual and the Telebelt® QuickStart Series DVDs or feel free to Contact Putzmeister’s Customer Support Department at (800) 890-0269.



Putzmeister America, Inc.  
1733 90th Street  
Sturtevant, WI 53177 USA  
Telephone (262) 886-3200  
(800) 884-7210  
Facsimile (262) 884-6338  
www.putzmeister.com