

BRIDGE SYSTEMS



ROTEC

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ROTEC AND BRIDGES: ROOTS

It's always good to find your roots and whether they are still valuable today. Here is a picture of the owner of Rotec in 1965, with the Beltcrete Piggy-back Conveyor System, doing bridges. Since then, we have been involved in more than 500 bridge pours in the United States and many around the world.

Experience does count. Rotec has that experience and the proven equipment to put that experience to work today. In the last year, we have re-vamped, reinvented and improved our equipment and we would like to offer this to our customers worldwide.

As highlight, our systems have:

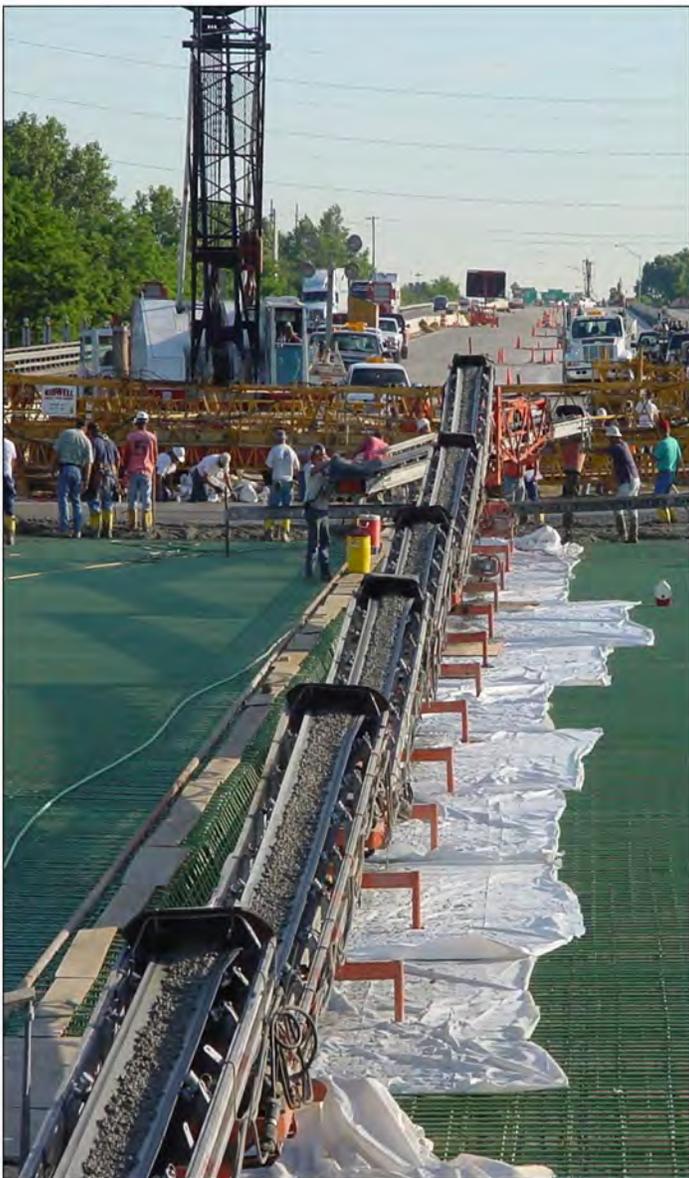
- Capacities up to 3 cubic meters per hour.
- We can reach out on a bridge over rivers, under power lines, and over low ground up to 1000 meters in length.
- We can pour bridges up to 50 meters wide.
- The thicker the bridge, the better the Rotec systems work.
- Of other great importance is its ability to handle any type of concrete, without the contractor having to spend money to make it pump-able. In many cases with lightweight concrete, it's not pump-able no matter what you do and/or always poses the risk of plug up.

Please review what we have done and the short videos showing live action today. Our most recent success was a bridge in St. Luis, Missouri where the system was set up in two days and reached over a steel structure bridge 1000 feet and placed concrete at a peak of 100 yards per hour on 900 Y3 non-stop pours.

We hope this convinces you that Rotec has the experience, the equipment, and the appetite to do a great job for you on your next bridge.



BELTCRETE CONVEYORS



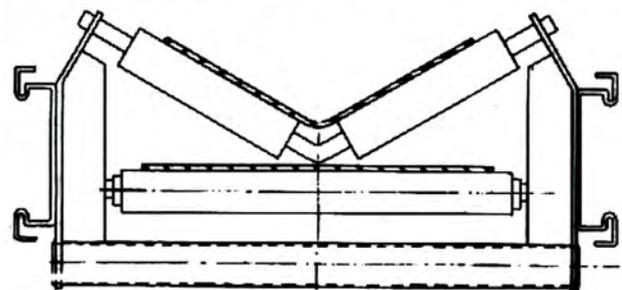
A Series of Beltcrete Conveyors is the fastest, most efficient method of placing concrete. It enables you to handle any mix, even no slump concrete or sand and gravel, at less cost and without the limitations of pumps.

The system is highly productive. From ready mix truck to a pour hundreds of feet away in seconds. You can expect production up to 150 cubic yards per hour on mat placement and a drastic reduction in labor costs. The system is a piggy-back design and travels on a monorail enabling each section of conveyor to be easily removed as the job progresses.

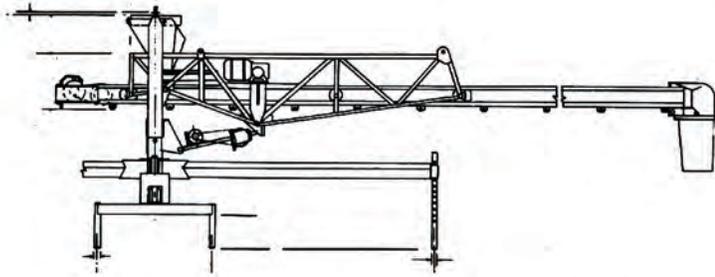
Simple and trouble-free, the Beltcrete system is versatile and flexible, with fast and easy setup. Ideal for many kinds of work, including highways, high-rise buildings, power houses, bridges and more.

SPECIFICATIONS

	1632 Model	1640 Model
Carry Length:	31'- 6" (9.6m)	39'- 6" (12.04m)
Overall Length:	35'- 0" (10.66m)	42'- 0" (12.80m)
Overall Width:	27'- 3/4" (.70m)	27'- 3/4" (.70m)
Overall Height:	13" (.33m)	13" (.33m)
Total Weight:	700 lb (317.5 kg)	975 lb (422.2 kg)
Belt Width:	16" (.40m)	16" (.40m)
Motor Horsepower:	10 hp	10 hp
Motor Voltage:	240/460	240/460
Belt Speed Standard:	786'/min	786'/min
Maximum Yards/min:	2.5 yd3 (1.91m3)	2.5 yd3 (1.91m3)



BELTCRETE SWINGER



The Swinger is the Beltcrete Conveyor System's full-swinging cradle-mounted placing conveyor. It has a 40' placing radius without moving the unit.

Precise placement is a simple, one-man operation. Swinger elevate and telescope functions are fingertip controlled. An "Electro-Leveler" or hydraulic cylinder raises and lowers the end of the conveyor to fit pouring situations. The cantilever design permits full circle pouring, even under the feed conveyor. An aluminum monorail system enables the Swinger (and conveyor system) to travel as the pour progresses.

Specifications

Weight:	3,500 lb (1,587 kg)
Overall Height:	8'1" (2.46 m)
Overall Width:	38" (.96 m)
Overall Length:	39'6" (12.03 m)
Capacity:	2.5 yds ³ /min (1.91 m ³ /min)
Belt Width:	16" (.40 m)
Power Required:	230/460 V
Max Elevation Angle:	+23 degrees
Min Elevation Angle:	-13 degrees



PORT-O-BELT LONG LINE



POB Long Line with monorail setup

Another conveyor similar to the Beltcrete system is the Port-o-Belt Long Line. The POB Long Line is typically used for conveyor lengths longer than 400 feet. The POB Long Line can be outfitted with wheels or travel along a monorail similar to the Beltcrete.

The POB Long Line is just as the name states, a long continuous conveyor system. This highly productive system enables concrete to be poured hundreds of feet away from a centralized concrete dump site. This allows for a constant concrete supply at the pour site while ready-mix trucks can feed the conveyor at a safe location.

The POB Long Line system can handle any mix of concrete as well as many other types of material. It can also be combined with both the Beltcrete Conveyors and the Beltcrete Swinger for a fully customized system specific to any job.



750 foot POB Long Line with wheel setup

BRIDGE DECK PLOW



Hoover Dam road bridge

Another option at the end of the conveyor line for concrete placement is the Rotec Bridge Deck Plow. The Deck Plow is fed by either a POB Long Line or Beltcrete Conveyor system. The plow travels on rails along the entire length of the bridge deck, eliminating the need for multiple setups.

The plow is self propelled and can be managed by one operator. The plow has the capabilities of placing all concrete needed for the bridge quickly and efficiently, reducing the number of workers on the job site and placement time.

As with all Rotec conveyors, the Plow can handle many types of concrete and various other materials. The Plow isn't just for bridge decks either, it can be used for parking lots, canals, reservoir floors, roadways, airport runways and any aggregate.



Bridge Deck Plow being fed by a POB Long Line conveyor on a monorail

SYSTEMS IN ACTION



Beltcrete system manned by a single operator

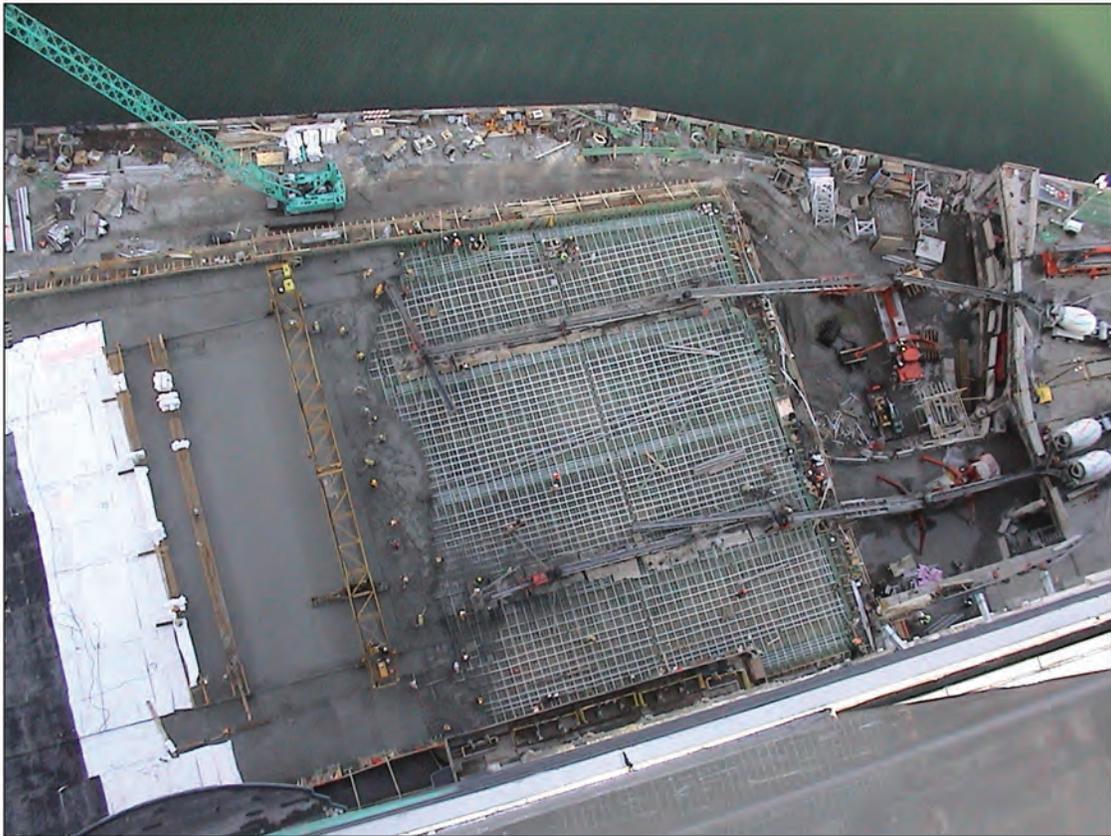


Beltcrete system over the Rock River in Rockford, IL. (2yds/min)

SYSTEMS IN ACTION



Beltcrete system with Swingers, Wacker Drive restoration, Chicago, IL.

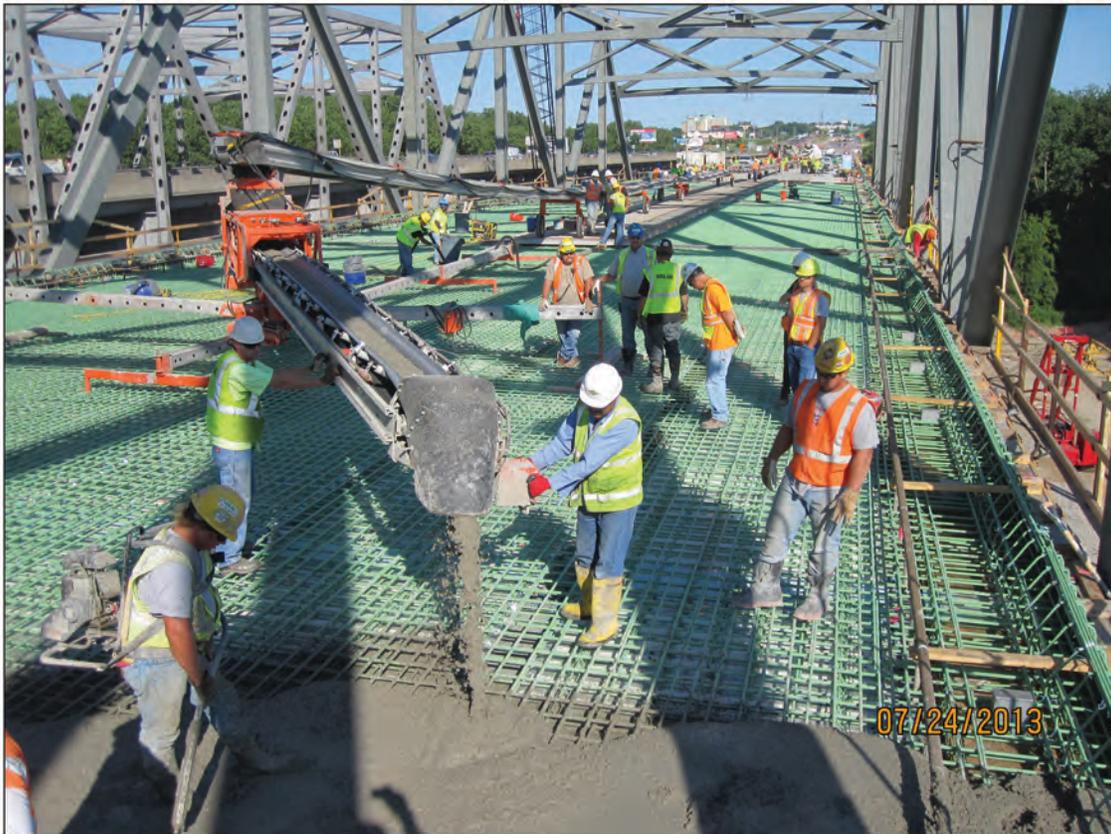


Beltcrete system being fed by Rotec Super Swingers

SYSTEMS IN ACTION



POB Long Line conveyor, St. Charles, MO. Providing a consistent supply of concrete.



Beltcrete Swinger provides accurate placement at the end of the conveyor line from one point, reducing multiple setups.

SYSTEMS IN ACTION



POB Long Line, Self propelled on a monorail



POB Long Line traveling at 786 feet per minute.



Mix truck dump point. Full 9yd truck load emptied in 3 minutes.

SYSTEMS IN ACTION



All systems are self contained and easily transported from site to site.



Bridge Deck plow allows for precise placement and is easily operated by one man.

SYSTEMS IN ACTION



POB Long Line conveyor and Bridge Deck Plow, Singing River Bridge, Pascagoula, MS.



Bridge Deck Plow on a canal pour. Rotec systems ensure a clutter free job site.

SYSTEMS IN ACTION

Special Residential Concrete Section: Cost-effective concrete floors

CONCRETE CONSTRUCTION

The World of Concrete

A Hanley-Wood Publication
November 2002

**Repair and Restoration:
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Rotec's systems on the Chicago Wacker Drive restoration project makes the cover!

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