

UtilicorTM
TECHNOLOGIES INC.

***Utilicoring,
the core of a
cost-effective
maintenance strategy***



The cutting edge in keyhole technologiesTM

The Utilicoring System

Utilicoring is a unique Rotary Coring and Pavement Re-instatement System that has been developed and field-proven over the past 10 years, by Enbridge Gas Distribution, one of North America's oldest gas distribution companies. Utilicor Technologies Inc. is now the exclusive manufacturer and distributor of the system.

The principal element is a truck mounted Rotary Cutting Unit* that cores an 18-inch circular hole

through all types of paved or hard surfaces allowing the utility crew to vacuum excavate and make necessary underground repairs. The hole is then back-filled to the base of the pavement and the core is re-inserted, where it is permanently bonded by a proprietary adhesive "Utilibond™". No temporary patching or repaving is required. Thirty minutes after the repair has been completed the road can be opened for traffic, saving both time and money.

*Patent Pending

Why Utilicoring is the best solution for:

The Utility

Saves Money: Dramatically reduced paving budgets. Save up to \$1,000 per hole or \$1 million or more per year vs. traditional cut & repair methods.

Positive Community

Relations: Faster less intrusive process. Fewer complaints from municipalities about traffic disruption, unsightly road cuts, sunken patches or weakened or failed roads.

100% Performance Index:

Field-proven process with ZERO reported failures in more than 8 years and over 9,500 successful corings and reinstatements in tough urban climates.

Improved Logistics: Single crew, one-stop, same-day coring and pavement reinstatement means simplified scheduling, no temporary patching or repaving and no repeat visits.

The Crew

Easy to Operate: No extensive training required.

Easy on the Back: Physically less demanding on the crew. Eliminates the need for jack-hammers, shovels and backhoes. Reduces potential for workplace injury.

Easy to Use: Utilibond™ permanent pavement repair compound is packaged in easy-carry, easy-open, pre-measured pails. No awkward measuring and mixing from fragile paper bags. Just add water to the line, stir and pour into the hole.

Safe: Work-safe engineered equipment and non-hazardous bonding materials.

Reliable: Utilicor coring units are the only Heavy Duty, purpose-built, coring equipment capable of quickly and easily cutting through asphalt, asphalt-concrete and reinforced concrete road systems and sidewalks.

The Community

Reduced Traffic Disruption: Faster one-step permanent pavement repair means reduced traffic disruption with fewer and shorter road closings with no repeat visits. The road can be open for traffic just 30 minutes after the repair.

Saves Tax Dollars: Less intrusive, more precise, pavement coring and reinstatement process means less structural damage to road system, longer pavement life and reduced maintenance. Saves millions of tax dollars.

Reduced Footprint: Neat, almost invisible, 18 inch diameter circular, keyhole core (area: 1.75 sq. ft.) vs. 2 ft. x 4 ft. conventional rectangular road cut (area: 8 sq. ft.) means reduced 'scarring' of the community landscape.

Environmentally Friendly: No road-cut spoil to be disposed of and no temporary patching compounds with volatile organic compounds (VOC's) to escape into the atmosphere.

Cleaner, Safer, Less Intrusive

Worksite: No jack-hammers or large excavation equipment means less mess during and after the excavation and reduced disruption for neighbors.

The Utilicoring Process



1. The coring truck sets up and cores an 18" diameter hole up to 22" deep in the sidewalk or roadway in minutes.



2. Using a core puller, the core is easily removed, allowing vacuum excavation and the utility repair to proceed.



3. After the repair is complete, the hole is back-filled to the base of the pavement. The Utilibond™ is mixed with water and poured in.



4. Once the coupon or core is replaced, the excavation and reinstatement is virtually invisible, and the road can be reopened in thirty minutes.

The Utilicor Savings

Save 60%** vs. traditional road-cut methods.

The Cost Advantages of Utilicoring

	Conventional Road Cut	Utilicoring Process
Road cut with concrete saw	\$375	\$ 0
Break out by backhoe & disposal	\$175	\$ 0
Setup & rotary cut (estimated)	\$ 0	\$200
Vacuum excavation and back-filling after repair	\$200	\$200
Replacement and permanent bonding of coupon	\$ 0	\$100
Temporary surface patch/repair	\$100	\$ 0
Permanent repair	\$150	\$ 0
Road rehabilitation fee	\$500	\$ 0
Total	\$1,500	\$500

**Based on actual results at Enbridge, MichCon & Nicor
Specific results may vary, and in fact may be higher!

The Utilicor Benefits

- Developed by Enbridge Gas Distribution to reduce costly and disruptive pavement cuts
- Cuts 18" keyhole in flexible, composite and reinforced concrete roadways, and sidewalks
- Compatible with all vacuum excavation equipment
- Simple to operate, safer and less physically demanding for work crews
- Intrinsically safe, diesel powered, hydraulically driven, 18" diamond tipped cutting bit with pilot
- Minimizes traffic disruption and environmental impact

About Utilicor Technologies

Utilicor Technologies Inc. is the exclusive manufacturer and distributor of the field-proven, keyhole coring and pavement reinstatement system developed by Enbridge Gas Distribution.



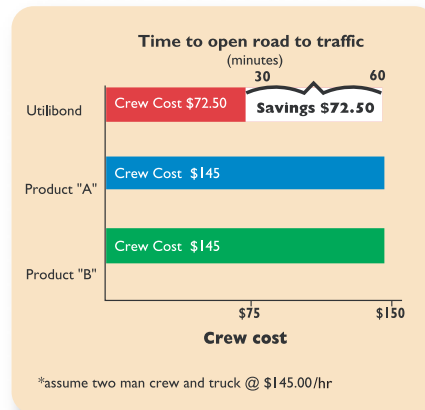
Keyhole Applications

Cast iron main joint repair • Sacrificial anode installation
 Low pressure service cut off • New service installation • Test holes (pot-holing)
 Soil sampling (environmental) • Utility locates/Daylighting (HDD/SUE)
 Installation of meter guards and bollards
 Main sectionalization • Any pavement/concrete coring • Utility pole installation

Utilibond™

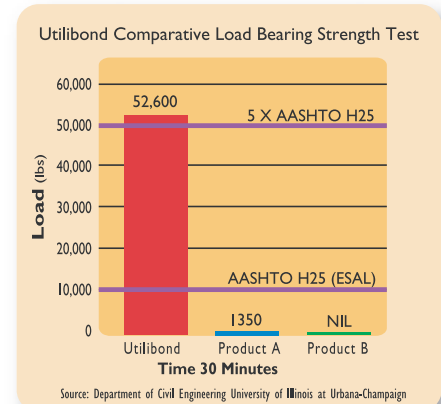
Permanent Pavement Bonding Compound

Utilibond™ is specially formulated to be used for permanently reinstating pavement cores in asphalt and concrete roads, sidewalks and other paved surfaces. A ready-to-use (just add water), fast-setting, high-strength, water-proof bonding agent, Utilibond™ is non-toxic and comes in two colors (Aged Asphalt and Natural Concrete).



Time is money. Utilibond's rapid hydration and ultra-fast strength-gain allows repaired roadways to be opened to traffic in just 30 minutes. This results in savings of over \$70 in crew costs per utility cut compared to other products which can take more than an hour to gain sufficient strength to meet AASHTO-25 load bearing standards.

Utilibond provides a perfect water-proof seal every time, and a bond that is stronger than the original pavement - exceeding AASHTO standards by 5 times in only thirty minutes.



The precise, circular Utilicor cut also eliminates corner stress cracks and leaks (a constant problem with conventional rectangular road cuts), adding years to pavement life.

The Benefits of Utilibond™

Fast setting • Rapid strength-gain • Forms a waterproof bond • Excellent freeze-thaw resistance
Very low permeability • High resistance to sulphate attack • Non-toxic • Chloride free

What Others Have to Say ...

"The Utilicor truck is a meaty, big-muscle, heavy truck that cuts through our streets like a hot knife through butter. I'm happy to use it right now, and wouldn't think of using any other."

M. "Buddy" Secor, P.E.
Manager Transmission and
Distribution Pipeline Energy
Washington Gas

"The ability for us to core drill and do our work in a small area eliminates our need for excess costs of paving and restoration... Reinstating the core is key"

David Williams
General Manager Utility Operations
NW Natural
Portland, OR

"There are substantial savings. The payback on the vehicle is between 30 and 45 days. That would be the pay-off. The biggest improvement is in customer satisfaction. We can repair the stuff the same day. You don't have to send multiple crews to complete the task."

Mike Arioli
Gas Distribution Supervisor
Michigan Consolidated Gas

THE UTILICOR SOLUTION PAYS FOR ITSELF IN JUST 2 MONTHS! **

Utilicor Technologies Inc.

411 S. Wells Street, Suite 400 • Chicago, IL USA • 60607
1090 Don Mills Road, Suite 600 • Toronto, Ontario, Canada. • M3C 3R6
www.utilicor.ca • email: info@utilicor.ca • Toll Free 1-888-572-6666

UtilicorTM
TECHNOLOGIES INC.

minicorTM

Rotary Coring Attachment

Core value!



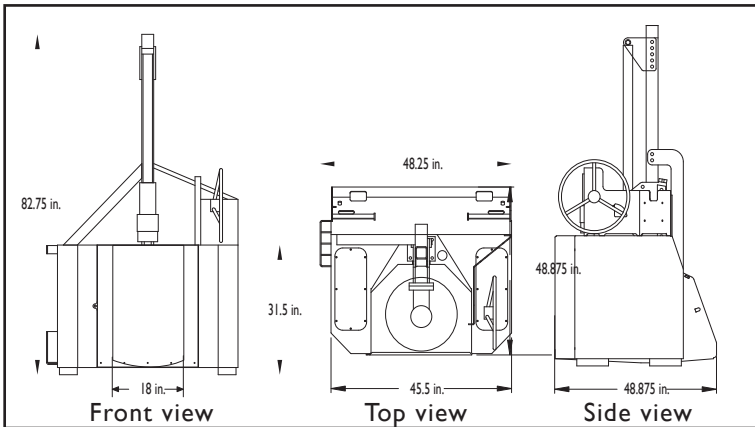
The cutting edge in keyhole technologiesTM

Minicor™ Skid Steer Rotary Coring Attachment

SPECIFICATIONS

Skid Steer Rotary Coring Attachment

Overall Length	48.875 in (1241 mm)
Overall Width	48.250 in (1225 mm)
Overall Height	82.750 in (2102 mm)
Weight (empty)	700 lbs (318 kg)
Water Capacity	100 gal (378 liters)
Drum Speed	0-400 rpm
Maximum Drum Diameter	24 in (610 mm)
Maximum Cutting Depth	30 in (762 mm)
Hydraulic Flow	10-14 gpm (38-53 lpm)
Min. Hydraulic Pressure	1500 psi
Max. Hydraulic Pressure	3000 psi (constant)



Universal Quick Attach



Compact • Maneuverable • Robust

Equally at home on the road as its Utilicor truck-mounted, big brother, and employing the same robust, hydraulic coring equipment, the 48" wide Minicor™, works on sidewalks or in other confined spaces where larger truck-mounted machines won't fit.

- Fits all skid steer loaders with a Rated Operating Capacity of 1400 lbs. and a hydraulic flow rate of at least 8 GPM. (Standard flow)
- Compact size and mobility means fast accurate work in tight spaces and the large 100-gallon water tank allows you to core a day's work with one fill-up.
- The integral, universal quick-attach coupler system and quick-connect hydraulic and electrical hookup lets you "plug and play" and be ready to core in minutes.
- The 30 inch coring stroke cores up to 26" deep, through asphalt, concrete or reinforced concrete pavement and fits coring drums from 2" to 24" in diameter.
- The orbital, flow-regulated, coring controls, with back pressure and down pressure gauges, makes coring easy and accurate.
- High and low pressure onboard water systems make site clean up easy.
- Weighing 700 lbs. (1500 lbs. fully loaded with water), the Minicor's heavy-duty, welded steel construction will ensure many years of dependable use.

Compatible with: Bobcat, Caterpillar, Case, New Holland, John Deere, Gehl, Komatsu, Kubota, Mustang, Thomas, Daewoo, JCB, Volvo and other skid steer models.

Utilicor[™]
TECHNOLOGIES INC.