

**BROKK**<sup>®</sup>

# Breaking News

Issue Sept, 2006

**Sales, Service, Parts, Training & Demo Rental****Only distributor for USA and Canada**

## Cover Story Di-Tech International, Winnipeg, Canada

Western Construction Services is a large restoration contractor specializing in parkade restoration. **Project Description:** The project comprised several phases. The first phase involved excavating 121 pile caps and restoring them to better than original condition. The pile caps were damaged due to water, salt and freeze thaw conditions in the unheated parkade. The existing columns were built out with new steel and a concrete jacket. This work was carried out to support the structure above during the demolition of the 2<sup>nd</sup> floor 11" structural slab. The slab was badly deteriorated and was slated to be totally removed and replaced with a new cast in place slab. Phase one of the restoration work was carried out by Di-Tech Restoration Inc. headed by Tom Dwyer.

The second phase involved the demolition and replacement of the existing slab of some 24,000 square feet. Western Construction Services was awarded this contract. Marcel Vincent, Project Manager contracted Di-tech International to perform the demolition.

Western chose Di-tech to saw cut the entire deck into sections and remove it off site. This decision was made due the engineer's insistence that percussion hammers would not be allowed during the demolition phase of the project. This decision was made because above and adjacent to the parkade were two apartment towers and noise would be a critical factor. Schedule was crucial and Di-tech had concerns about the amount of steel in the slab plus slurry removal. Di-Tech had five weeks, 8 hours per day, 5 days per week to perform the demolition of the structural slab.

Di-tech decided to explore other options to dismantle the deck. The main criteria were speed and noise. Di-tech considered the Brokk with a crusher as a viable alternative to saw cutting the deck. Ted Johnston of Di-tech consulted Gary Porter of Brokk to query him about possible production rates and information on similar projects that had used the Brokk for slab removal. After further consideration of all other possibilities, Di-tech decided that the Brokk was the way to do it.

Di-Tech already owned a 150 Brokk with a CC400 crusher, but figured that having another Brokk as back up would ensure a successful outcome. Di-tech therefore purchased a new Brokk 180 with a CC 420 crusher. The 400 crusher produces 26 tons of pressure at the jaws. The 420 crusher with the built in hydraulic booster produces 42 tons of pressure at the jaws. This additional pressure helped the 180 Brokk achieve about 40 percent more production than the 150 with the 400 crusher. Di-Tech's project foreman, Jason Nienhuis, was very pleased with the performance of both machines. The average production per day was 1200 square feet. Nienhuis produced a record day of 1740 square feet in 8 hours utilizing the new Brokk 180 with the 420 crusher. Di-tech utilized electric slab saws with a specially designed flush cut system to isolate the columns and beams from the area of slabs to be removed. Maintaining the structural integrity of the remaining structure was paramount to the success of the project.



Derek Mizac, Project Engineer at Croizer Kilgour & Partners, stated that this was the best method for silent demolition and he was anxious to employ this method on more projects in the future. Robert Simpson of Edison Rental, the owners' representative, likened the machine to a transformer (the popular kids' toy) with a "Pac Man" appetite.

This was the first time his company had seen this type of demolition and said he would recommend this approach without hesitation. Marcel Vincent of Western Construction Services stated he was more than pleased with the results. The first phase of demolition was completed on the exact proposed schedule. The second phase of approx. 14,000 square feet will begin April 2007.

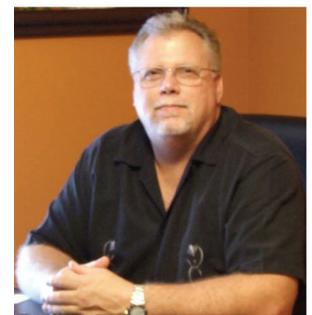
/Ted Johnston Di-Tech Int.

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### Gary Porter

With more than 30 years of industry experience as a saw cutter, estimator and business owner Gary joined Brokk in 2004 as area Sales Manager West coast. Since then he has advised numerous customers how to make more profit using Brokk.



Cell: 360-601-7717



Visit us at Booth #302234  
Las Vegas, Nevada,  
Jan 23-26, 2007

### New Products

#### Concrete crusher CC420

- Weight 529lbs
- Cutting force up to 42 ton
- Jaw Opening 16-1/2 inches

The CC420 can break reinforced concrete parts with a thickness of up to 15-3/4 inches. The enormous force at

the crushing tips is already achieved with an input hydraulic pressure of 185 bar.

The CC420 easily separate Reinforcements of up to diameter 1 1/10 inches.





# BROKK®

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## WS-15 Power Scabber!

- Excellent for surface removal and renovation
- Renovation of interior coating on cast lining
- Slag removal
- Optional depth limitation makes it easy to remove the exact amount of concrete



### Technical details:

Max input power: 18KW  
 Flow: 40-60lpm  
 Max pressure: 375 bar  
 Output shaft torque: 1515 Nm at 210bar  
 Output shaft speed: 89 rpm at 40lpm  
 Unit weight: 421 lb



**- Work smarter, Not harder - Just Brokk it !**

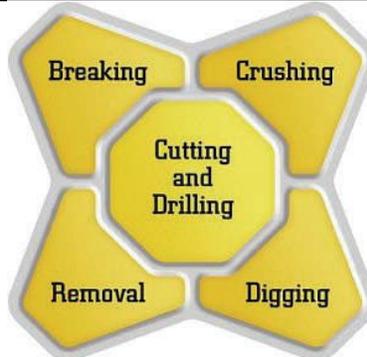
## Machine Market used machines & tools

### Used machines & tools for sale

**B40, 250h B90 sold!**  
**330E sold! 330D sold!**

**Call us for pricing and more information!**

Always use Brokk  
 Genuine parts



## Brokk R & D Partners Thank you!

Alcoa, PA  
 Brock Rentals, WA  
 Cal-West, CA  
 Concrete Coring, HI  
 CTS, PA  
 Cutting Technology, NY  
 G.D. Heil, CA  
 Jack Moore Assoc, MA  
 RAB, LA  
 Robo Breaking, NY  
 Smalls Construction, PA  
 TID, UT  
 True Line, TN

## Short Brokk History

- 1976** - First demolition machines
- 1981** - First Brokk 250
- 1994** - Brokk 110 and 150
- 1995** - Brokk 40
- 1996** - Brokk 330
- 2001** - Brokk 180 and 90
- 2004** - New generation Brokk 330
- 2005** - New Brokk 330D  
B90 revision E  
B180 Revision D  
Brokk electric cart
- 2006** - Portable power unit, New G-50  
New CC420

## About Breaking News

- ▶ Four issues a year — March, June, September, and December
- ▶ Circulation to Brokk customers and future customers
- ▶ Submit comments, photos, and case stories to:

**[info@brokkinc.com](mailto:info@brokkinc.com)**  
**1-800-621-7856**  
 Or  
**1-877-Brokk-it**

*The name Brokk has been taken from the mythical figure Brokk, who forged a sword for Thor, the god of war, in the realm of the Norse gods. Brokk was small but very strong, just like our machines*

