

ONE SUPPLIER . . . ONE POWERFUL SOLUTION

Integrated Caterpillar systems and components, including a Cat® C-12 engine, keep Baker Kurtz's crushing powerhouse pulverizing concrete.

Pulverizing slabs of concrete into recyclable pieces requires power and precision. Knowing and understanding what makes a good concrete recycling crusher, Belvidere, Ill.-based OEM Baker Kurtz, teamed up with

long-term customer Earth Inc. to build a portable impact crusher designed specifically for the task of crushing concrete.

"There were no crushers in the market to meet our specific needs in the concrete recycling industry," explains Bruce Kurtz, owner of Baker Kurtz. "Most of the crushers were manufactured in Europe and none were made to specifically handle concrete."

"Concrete recycling is a niche market," explains Bruce Larson, general manager of Earth Inc., a Baker

Kurtz customer of 14 years. "Concrete is very inconsistent and the crushing process is actually quite technical."

The 3264 Mobile Jaw Track Crusher is designed to operate as both a primary and secondary crusher in concrete recycling applications. This is a money-saving feature as existing crushers often require

a primary "muncher" crusher to process the concrete BEFORE the material is loaded into a secondary crusher.

"This crusher handles in one step what most crushers complete in two steps," notes Larson. "Utilizing this 3264 crusher allows us to reduce our cost per ton. Fuel savings is also substantial."

What also sets this newest Baker Kurtz crusher apart from its European-manufactured counterparts:

1. The unique design of Baker Kurtz's jaw track guarantees better breakage of concrete, which results in a higher yield of premium crushed product.
2. The crusher is completely integrated with Caterpillar systems and components.

COMPANY COLLABORATION

The 3264 crusher has been a year in the making. The team players:

- The 11-employee staff of OEM Baker Kurtz
- Earth Inc., a long-time Baker Kurtz customer and owner of the 3264 crusher
- Cat dealer Patten Power Systems
- Cat OEM Solutions Group

"We talked to the folks at Baker Kurtz AND at Earth Inc. about what they needed to do with this crusher," recalls John Nicholson, manager OEM sales, Patten Power System.

"We developed a system specification so everyone was on the same page," recalls Rich Robertson, North American dealer sales manager for the Cat OEM Solutions Group. "Through constant communication, we were able to seamlessly integrate the crusher's mechanical, hydraulic and electronic systems."



The Baker Kurtz 3264 Mobile Jaw Track Crusher is remote powered by Cat radio remote motion controls.



Bruce Larson, right, of Earth Inc., took delivery of the 3264 Mobile Jaw Track Crusher from Bruce Kurtz of Baker Kurtz.

AN INTEGRATED CAT SYSTEM

The 3264 crusher is a true integrated system. In addition to the Cat C-12 engine, the crusher incorporates numerous Cat

components and systems including a Cat 330EL undercarriage, pumps, hydraulics, electronics, cooling system and remote motion/power controls. (See box at right.)

Some specifics of the installation:

- The Cat C-12 engine, rated at 500 hp (373 kW) at 1,800 rpm, powers the entire system: the jaw, tracks, belts, etc. The crusher is a self-contained unit.
- The Cat custom-designed cooling system cools the engine (jacket water and charged air), fuel and hydraulics.
- The dealer designed a special drive on the front of the engine to power the 100-kW generator, allowing for more flexibility in machine operation.
- The air intake system design and location is customized.

The Cat components were shipped to the customer as a complete system. The dealer mounted the hydraulic pumps and reservoir as well as the generator, air compressor, air intake and cooling system.

"The professional service we received from our Cat dealer and Cat OEM Solutions — you'd think we were a big company!"

Bruce Kurtz, Baker Kurtz

"We designed and routed hydraulic hoses to connect the reservoir, pumps and control valves," explains Nicholson.

"Continuing from there, we routed hoses to the

motors on the tracks and their control valves. When it was completed, the entire plumbing system was documented to make future production more efficient. This resulted in a completely integrated solution for Baker Kurtz."

THE POWER OF SUPPORT

"Anybody can buy an engine and components," says Kurtz. "But to successfully integrate them in a mobile crushing plant takes expertise. We rely on and trust the expertise of our Cat dealer and Cat OEM Solutions.

"I turn big rocks into little rocks; that's my expertise," he adds. "I rely on Caterpillar for their expertise with engines, hydraulics and electronics.

"When it comes to product support, Cat stands out," he concludes. "You simply can't lose when you rely on Caterpillar." ○



A COMPLETE POWER SYSTEM

The comprehensive and integrated Cat power solution for the Baker Kurtz 3264 Mobile Jaw Track Crusher includes:

- A Cat C-12, 500-hp engine
- A Cat 330EL undercarriage
- Two Cat piston pumps
- A Cat gear pump
- Cat S3PC electrohydraulic control valves
- Cat electronic controls
- Cat hydraulic hoses, piping, reservoir and filters
- Custom-designed cooling and mounting systems
- Custom-modified engine controls
- Customized hydraulic interface
- Cat radio-remote motion and power controls



A Cat C-12 engine, rated at 500 hp (373 kW) at 1,800 rpm, powers the 3264 crusher. The machine's conveyor is magnetized to attract metal debris (rebar) embedded in the concrete.