

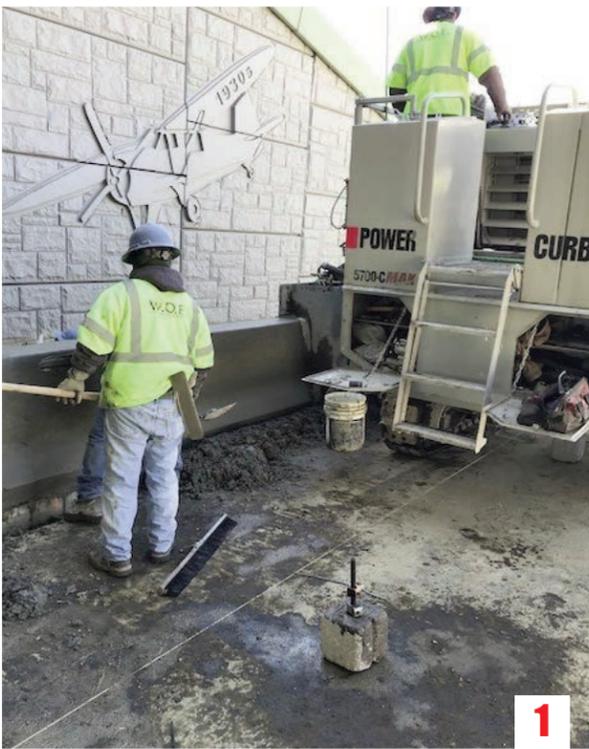


Recipient, E-Award for Excellence in Exports, US Department of Commerce

POWER CURBER PROFILES

Our Commitment Shows

BARRIER JOBS ARE BIGGER IN TEXAS



Does half of a barrier mold pour half of a barrier wall? Not when W.O.E. Construction uses their Power Curber 5700-C-MAX and custom mold to pour adjacent to an existing wall. For General Superintendent Joe Roundtree and his crew, the expansion of Texas 183 eastbound in Irving was not a straightforward barrier job. The outdated highway, which hadn't changed much since 1973, was struggling to handle the daily 150,000+ vehicles traveling between Dallas and Fort Worth. The \$897 million job required barrier to be poured right up to retaining walls beneath bridges and then adjacent to the walls for the entire width of the bridge. Because the barrier was poured against a surface, there was no clearance for a typical barrier mold. The half mold pours were only one aspect of the job, which required a total of seven different molds.

The W.O.E. team, based out of Grand Prairie Texas, has a lot of experience in its ranks. In addition to the support of the entire Power Curber team, Roundtree has been "slipping concrete since the early seventies." Using his decades of experience, he built the versatile mold that has a removable back plate to help WOE tackle these challenging pours.

The adaptable mold was so important for W.O.E. due to the frequency of changeovers. The 300,000 linear-foot job had about 7,000 feet of open-backed slip work. Overall, there were about twenty-five transitions, each taking twenty minutes. With so many conversions, even shaving off a few minutes from the process meant far less total downtime. Without this mold, the crew would have had to maneuver their 5700-C-MAX off the wall, swap to a completely different mold, then get the Power Curber back into position. W.O.E.'s method allowed them to bolt and unbolt the back of the mold in place, streamlining the process.

Their mold with the removeable back worked very well for W.O.E. Roundtree explained that it was "100% easier than hand forming and 95% faster."

For anyone else facing similar challenges, Power Curbers machines can be equipped with a variety of tools to make the lives of operators easier. The quick connect mold mount can make changing molds take as little as five minutes. With hydraulic mold adjustment, and barrier mold lift, getting on and off a rebar cage is no obstacle. Those, coupled with Roundtree's favorite feature, all crawler steering, vastly improve the maneuverability of the machine. Reliability is never a

"AS LONG AS POWER CURBERS IS MAKING SLIP FORM BARRIER MACHINES, W.O.E. WILL EXCLUSIVELY USE THEIR PRODUCTS."

— CALEB CHALMERS, W.O.E. VICE PRESIDENT



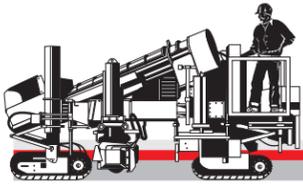
question either, Caleb Chalmers, W.O.E. Vice President describes "Power Curbers produce a machine that can stand 10-hour days, 5 days

a week, even on our 100-degree days and the machines never miss a beat."

Further challenging W.O.E. was the two-foot super-elevation between the east and westbound lanes. That required a Power Curbers' variable height barrier mold to compensate for the 25,000 feet of meandering grade changes. What mattered most was doing a quality job within the specifications. Roundtree, was thrilled with the 5700-C-MAX, expressing that "the Power Curber is a great machine and has great people behind it working really hard to make it that way."

Because of W.O.E.'s experience and hard work, they have grown to become one of the largest slipform barrier subcontractors in Texas. "Power Curbers has played a pivotal role in W.O.E.'s success in the barrier market with dependable machines, mold versatility, and the people behind the Power Curber brand" praises Chalmers, who concludes "As long as Power Curbers is making slip form barrier machines, W.O.E. will exclusively use their products."

- 1 The rear plate of the custom mold has been bolted back on and is being used for typical barrier wall.
- 2 W.O.E. was responsible for pouring multiple, long stretches of barrier against an existing retaining wall.
- 3 The custom W.O.E. mold in position with the back removed to overcome a no-clearance situation.
- 4 A Power Curber 5700-C-MAX using W.O.E.'s custom mold to pour against a retaining wall.
- 5 The rear plate staged to reattach as soon as the barrier wall transitions.



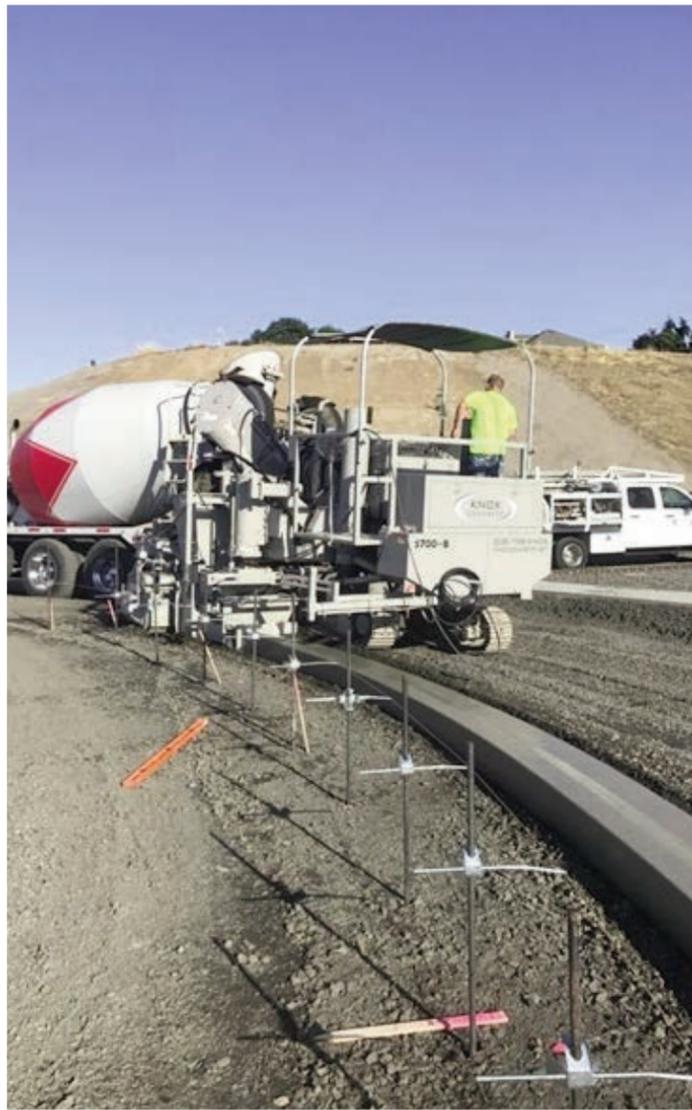
KNOX KNOCKS IT OUT

CONTINUE FROM COVER

This was Knox Concrete's largest job to date and "without that Power Curber, I could not of done that job" said Knox. They have owned their Power Curber for three years, and have lots of demand for its use in 2018. As the Fleshman Way job was nearing completion, Travis Knox was speaking to the general contractor who told him "we want you and that machine on all of our jobs."



Knox Concrete was able to minimize manual finish work on the roundabouts due to the flexibility of their 5700-B



Knox Concrete slipforming roll curb on a ramp with their 5700-B

GETTING IN THE GROOVE

Imagine the life of a dairy cow, standing for ten or more hours every day on a concrete barn floor that is slippery from bedding and waste. Abrasively finished concrete wears out hooves like sandpaper, and a smooth finish causes slipping and falling. How does the farmer take care of their investment? They contact a slipform operator equipped with a Power Paver, and install a finished, grooved floor that can catch hooves if they start sliding.

JKL Construction Inc., of Plains, Kansas is experienced with this type of work. For over 36 years they have completed a wide variety of jobs throughout the surrounding area, and one of their specialties is agricultural applications. JKL has installed

ten to seventeen-foot-wide lanes in dairy farms located in Kansas, Oklahoma, and Texas. Additionally, they construct grain storage facilities and offer turnkey construction on dairy farms.

Two of the tools in their belt are the Power Paver SF-2700 and the Power Curber 5700-B. For this job, JKL used a comprehensive paving kit on their SF-2700 that slipformed a full lane in one pass, complete with a finished, grooved floor and integrated curbs on either side. Typical construction of a similar design would require the flat, floor surface to be poured before coming behind later and making separate passes to place the curb. Brian Kroth, Project Manager of JKL, explained "if

we were doing 1200' they would save 300 man-hours using this application versus paving the lane and then going back and hand setting the curbs."

On this particular site in Western Kansas, JKL installed ten, 1200-foot lanes with widths of ten and fourteen feet. Using the numbers above, the capabilities of their SF-2700 saved them 3,000 man-hours on this job alone. It is easy to see why Kroth asserts that the use of their Power Paver led to "savings [that] would double compared to hand setting the entire job." JKL has been a Power Curber & Power Paver customer since 1994, and Kroth proclaims, "I am really impressed with the support I received and the way I was treated."



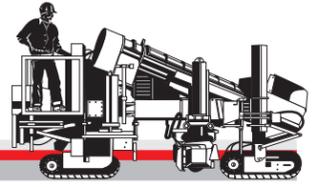
This slipform design produced by the Power Paver paving kit will help contain the cattle waste and facilitate easy flushing and cleaning due to the longitudinal grooves



The paving kit on the Power Paver SF-2700 is able to include the floor and integrated curbs on both sides all in one pass, saving time and money



JKL Construction using their Power Paver SF-2700 to slipform a grooved cattle barn floor



JUMPING OFF THE 3-DEEP END

In late 2017, S. Walker Construction, Inc. took a leap of faith. Established in 2009, S. Walker completes a variety of concrete work throughout Virginia, primarily commercial, industrial and DOT projects. S. Walker's crews specialize in drainage structures and ditches, curbing, flatwork, reinforced concrete, design build structures, steps, and saw cut/removal. One of their favorite tools is a Power Curber 5700-C equipped with Leica Geosystems 3-D stringless technology. Prior to late 2017, however, S. Walker had zero experience with 3-D guided machinery.

Jason Walker, Vice President, had successfully been running two Power Curbers for several years, when he decided on a big change. In the name of saving time and money while preparing for the future, Walker traded in his two machines for a brand-new Power Curber with integrated Leica stringless controls. To date, S. Walker has worked with the new machine controls for several months, and they have already poured over 25,000 linear feet.

S. Walker coordinated the purchase with Southern Equipment Service (SES), the Power Curbers' distribution arm for Virginia, and the Carolinas. Walker was pleased with the support he received, noting that SES has "been great for service . . . just pick up the phone and ask." Once the stringless machine was delivered, S. Walker had to learn how to implement the new technology. Walker emphasizes that the learning curve was "well worth it" and to get everything operational "Leica and Power Curbers worked together." It took Will McGraw, Superintendent, about two pours to get accustomed to the models and control points so that they were running efficiently. A concern with GPS guided equipment is that the connection will be lost when working around obstacles such as trees, buildings, or hills. S. Walker's system makes use of Leica's total station and prisms which allow them to guide the Power Curber under and around obstructions without needing direct satellite visibility. Walker confirms that they have experienced "no major downtime at all" from either the Leica control system, or the Power Curber.

For contractors considering the move to 3-D/GPS controls, it is easy to question whether or not it will actually save money. Walker reports that "for every 1500 linear feet of curb and gutter, we can save a full day of setup for a six-person crew. We can do a two-day job in what would have been four." That has allowed S. Walker to squeeze more jobs into their schedule and remain up to date with their project's strict deadlines. Based off their early pours, S. Walker is seeing significant cost savings with the 3-D control system. Jason Walker is thrilled with not only the stringless controls, but their machine too. He declares that Power Curbers deliver "all you can ask for out of a machine and service, I would recommend them to anybody." Walker half-jokingly added that he wants his "competition to own other machines so we have the advantage."



Using a Leica system allows the Power Curber to stay accurate even when working around tall trees



S. Walker is much more efficient now that they are using 3-D/GPS control technology.



S. Walker pouring ribbon curb stringlessly

POWER CURBERS POWER PAVERS PROFILES

Volume 27, Issue 1

Power Curbers Companies, LLC.

KNOX KNOCKS IT OUT

All drivers know of an area that is under-designed for the traffic it carries. These locations can be a headache to travel; and, the worst see increased accident rates or even fatal crashes. One such setting was the Fleshman Way Interchange in Asotin County, Washington.

Knox Concrete, LLC, located in Lewiston, Idaho was a key player in the rehabilitation of this interchange. Fleshman Way sees over 25,000 vehicles each day with a majority of them crossing the state line into Idaho. The reconstruction of this crossing was a huge undertaking, going from an outdated design with stops and left-turns to a free-flowing system with two roundabouts that will promote safe merges.

– TRAVIS KNOX, OWNER



Using five different molds on a Power Curber 5700-B, Knox Concrete poured over 9,000 linear feet of a combination of roll curb, curb and gutter, and under guardrail curb. The 5700-B showed off its versatility as Knox transitioned from roll curb on ramps to radius work on roundabouts, to tricky curb slipped under guardrail. “The machine performed perfectly” remarked Travis Knox, the owner of the company. One highlight of the job was on the two roundabouts. Utilizing the hydraulic adjustable offset on the 5700-B, they were able to pour the complete circle of curb until they drove the mold right over where they started. This minimized manual finish work and saved time.

The crew was able to finish the job “ahead of time and under budget” according to Knox. This was imperative because the interchange was notorious for being dangerous. A study was completed in 1994 to explore alternate layouts because of safety concerns. This project had been under consideration for fifteen years when, in 2009, 110 members of the public attended an open house with 68 members voting in favor of the eventual design. Located in Clarkston, a city of fewer than 8,000 people, this job received a lot of public attention.

[MORE](#)

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2018 Trade Shows

Ankomak (Istanbul, Turkey): May 25-29, 2018

ANKOMAK

Bauma CTT Russia (Moscow): June 5-8, 2018

bauma CTT RUSSIA

JUNE 5-8, 2018, MOSCOW

Trimble Dimensions (Las Vegas, USA): Nov 5-7, 2018

Trimble DIMENSIONS

Bauma China (Shanghai): November 27-30, 2018

bauma CHINA

NOVEMBER 27-30, 2018 SHANGHAI

EPA Regulations Update

Like all equipment manufacturers, Power Curbers and Power Pavers will soon be affected by EPA emissions standards which will require us to supply EPA Tier 4-Final engines. This regulation requires massive reduction of exhausted particulate matter (PM) and nitric oxides (NO & NO2).

PM and the nitric oxides (NOx) have an inverse relationship, as steps are made to reduce emissions of one the other is increased. It is complicated and costly to reduce both simultaneously.

There are two primary devices being implemented to reduce the contaminants. Diesel particulate filters (DPF) will catch PM and occasionally oxidize it, to clean the filter, with the use of a catalyst or diesel fuel. Diesel exhaust fluid (DEF), a mix of water and urea, is mixed with the exhaust to convert NOx to harmless nitrogen and water. Ammonia is formed as a byproduct of the DEF reaction, so an additional catalyst is required to neutralize excessive ammonia.

Beginning in 2019, all Power Curbers will comply with Tier 4-Final regulations. These engines are more than twice the price of Tier-3 engines and machine pricing will reflect this. Power Curbers will offer Tier-3 engines through December 2018, but supplies are limited.

**Power & Pavers
 Curbers**