Power Curbers Inc., Volume 26, Issue1

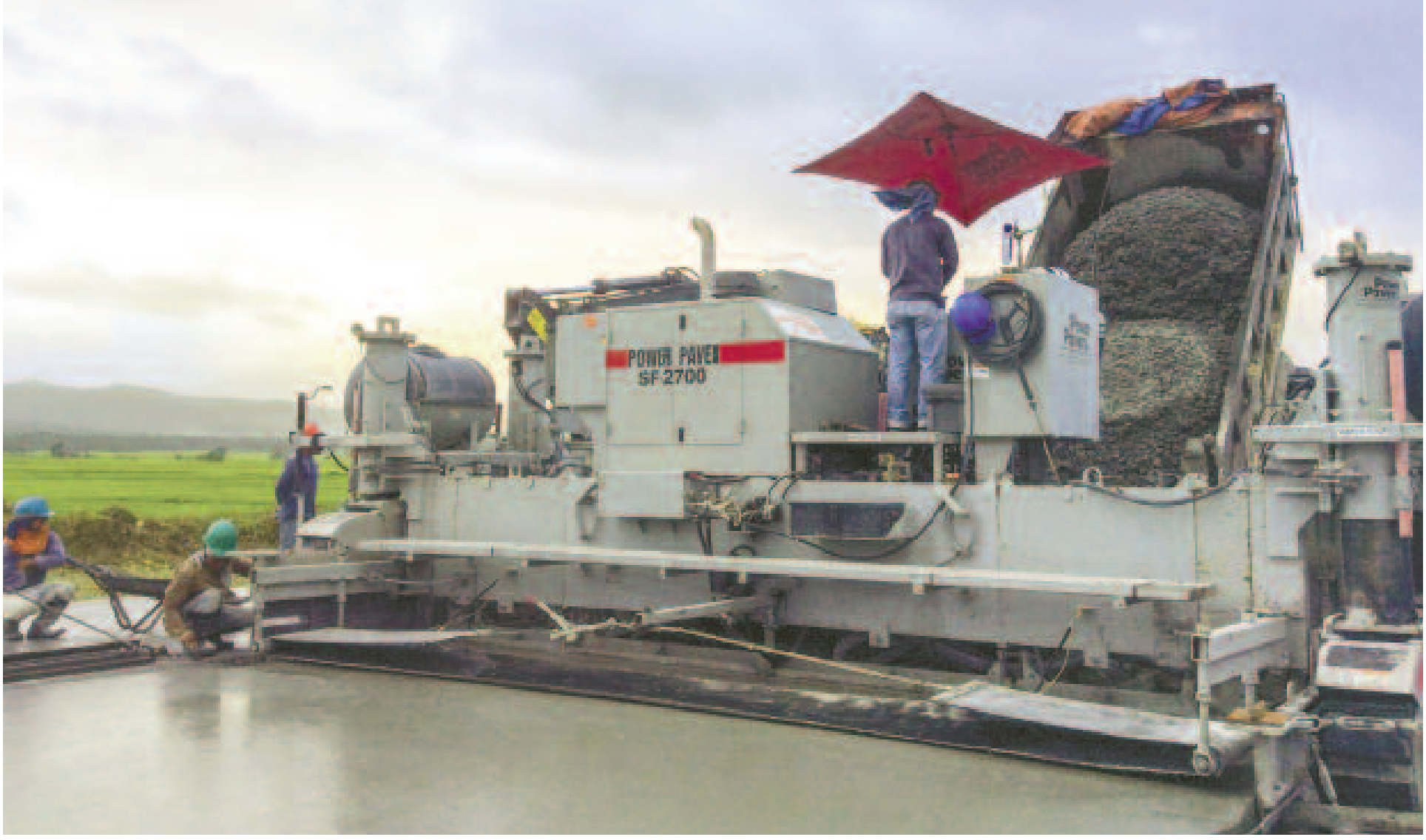
Recipient, E-Award for Excellence in Exports, US Department of Commerce

POWER CURBER PROFILES

Our Commitment Shows

PAVING THE WAY TO A NEW FUTURE

POWER PAVER SF-2700 EXCELS AT AIRPORT WORK



The SF-2700 can pave up to 27' (8.23 m) wide and up to 16" (40.64 cm) deep.

Power Pavers customer SunWest Construction Development Corporation is paving a runway, taxiways, and aprons for the new Bicol International Airport in the Philippines.

The P4.7 billion (105-million USD) project underway in the Daraga municipality of Albay province in the Bicol Region has been in the works since 2006 as a replacement to the Legazpi airport. The single-runway Legazpi airport is in an area where future expansion is not possible. In addition, the existing facility is also hampered by activity at the nearby Mayon Volcano, which often disrupts flights.

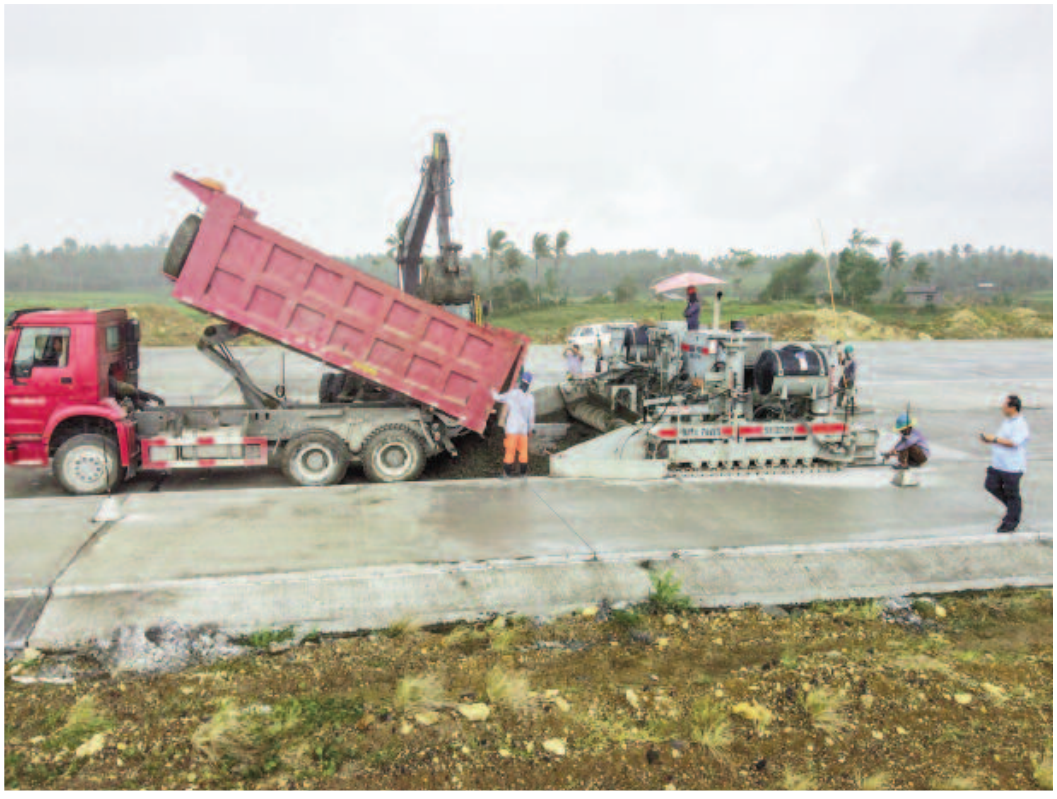
SunWest used their Power Paver SF-2700 to pave a total width of 45 meters (147.6 ft) for the new Bicol runway. The SF-2700 was set at a width of 6 m (19.7 ft) and the runway was paved in 6 lanes. They then changed the paver width to 4.5 m (14.8 ft) and added the shoulder onto each side of the runway. A belt finisher was used on the back of the SF-2700 to produce a smooth finished product.

The runway is 2,100 m (6,889.8 ft) long and 40 cm (1.3 ft) deep, and took 37,800 cubic meters (49,440.5 cubic yards) of concrete to pour.

The mix design for the runway paving included sand from the Mayon Volcano, 2 and 4-inch river stone, and 3/8", 3/4", and 1 inch crushed stone with a 1>1.5" (25>40 mm) slump.

The new airport is expected to provide a safer and more economical way to reach both domestic and international destinations from the region, which is made up of six provinces and has a population of 5.8 million people. It will be able to accommodate larger aircraft and more passengers, and has room for long-term growth and expansion.

The Bicol International Airport project will include a 2-story 143,375 square foot (13,320 m2) passenger terminal as well as an administration building, cargo terminal, and maintenance and utility buildings. It is scheduled to be fully operational by August 2018 and could see as many as 8 million tourists each year.



Airport jobs often use a dump truck for fast concrete supply to the paver.

Power Curbers, Inc.
PO Box 1639
Salisbury, NC USA 28145-1639
704-636-5871
Volume 26, Issue 1

BUILDING A NEW FUTURE IN NEW ZEALAND

Rebuilding has been slow in the New Zealand city of Christchurch following the earthquake that rocked the island nation in 2011. With many buildings "red-zoned" and deemed unsafe after the quake, it has taken time for the city's damaged infrastructure to be rebuilt.

With the construction of new roads and developments now in full swing, new Power Curber owner A E Smith Contractors is doing their part to help rebuild and carry Christchurch, the oldest city in New Zealand, into the future.

Shayne Smith started curbing with his father some 20 years ago, and bought the business from him a few years back. Shayne is a champion of slipforming, and sees it as an opportunity to replace handformed curb and paths in the city.

"It's a much stronger product and goes in more quickly, so that has to be more appealing for new construction in an area like Christchurch," says Shayne. Christchurch is the largest city in the South Island of New Zealand.

Shayne and his wife Nicola recently purchased a 5700-C and found a supportive client who believed in slipform technology and the Smiths' ability to be successful with their Power Curber. They've been pouring 21 inch (530 mm) curb and gutter in a new housing development.

The transition from handforming to slipforming has been a smooth one for the Smiths.

"It really is the future for us in New Zealand," says Shayne. "The concrete and set up is a little different to what we're familiar with, but we have that all sorted out now."

Their customers, along with the A E Smith crew, have been pleased with the addition of the 5700-C.

"The client is very happy and the boys working with the machine and finishing the concrete really love it," reports Shayne.

Aran Australia, the Power Curber dealer for Australia and New Zealand, has been instrumental in the Smiths' success.

"It's been great to have the support of Power Curbers and our local dealer, Shane Dunstan (of Aran Australia), too," says Shayne.

While it's still early in their slipforming days, A E Smith has found success with their 5700-C, and plans to move to stringless machine controls in the future.

"We're really looking forward to what the Power Curber will potentially do for the growth of our business," Shayne says.

A E Smith Contractors pours 21" (530 mm) wide curb and gutter in a new residential development in Christchurch, New Zealand.

The A E Smith crew has been extremely pleased with the 5700-C.

Shayne and Nicola Smith hope that slipforming will be a key part of rebuilding Christchurch after a 2011 earthquake left much of the city damaged.

5700-C-MAX POURS SOLAR POWER FIELD IN JAPAN

Concrete may be an age-old construction method, but one Japanese project has integrated the benefits of slipformed concrete with new energy solutions.

LIXIL Corporation, a leading Japanese company in the living and housing solutions industry, has begun creating renewable energy sources by turning unused land as well as factory rooftops into solar power plants.

The LIXIL Chita Solar Power facility, located in the city of Chita in Aichi Prefecture along Japan's eastern coastline, was built in two sections at LIXIL's manufacturing facility for bidet toilets.

One section was built on the roof of the First Manufacturing Building, making it the first rooftop solar plant in Japan.

The second section was constructed on some empty land adjacent to the manufacturing site. Kajima, the main contractor on the solar project, brought in Power Curber owner Koyanagawa Company Limited to slipform concrete bases for the solar panels to be mounted on.

Koyanagawa's crew tackled the job with their 5700-C-MAX, working 9-hour days, 6 days per week to finish the concrete bases by the target completion date, which gave them only 22 days to complete the project.

They poured a total of 12.6 km (13,780 linear yards) of concrete footings over #4 rebar to reinforce the concrete.

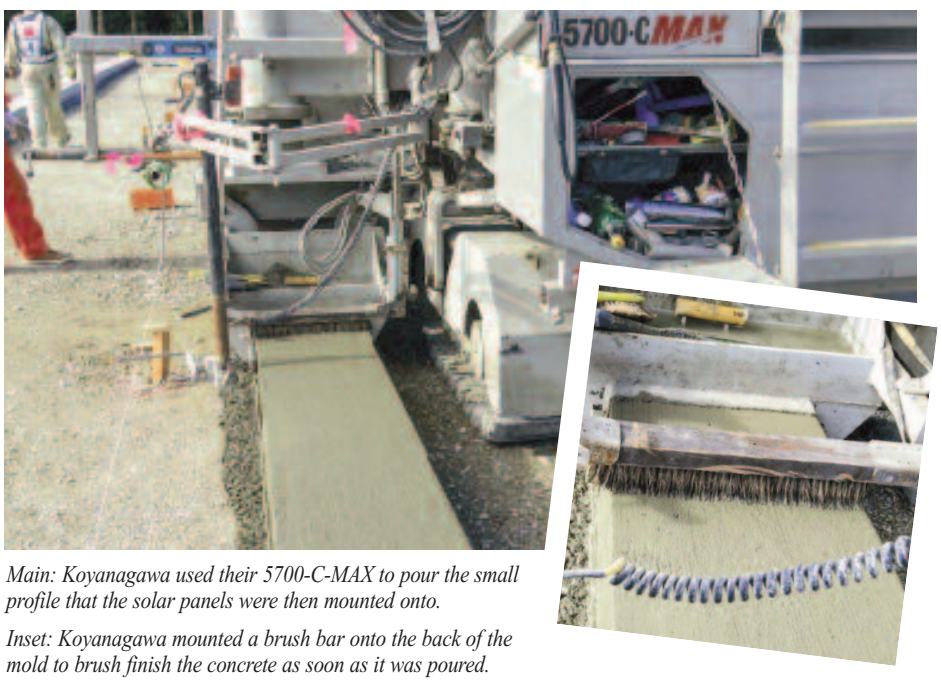
Nearly 18,000 solar panels were then mounted onto the concrete bases. The solar plant also includes nine photovoltaic (PV) inverters, required to convert stored direct current (DC) solar energy into usable alternating current (AC) power that can be fed into the commercial power grid. The power is being sold through Chubu Electric Power Co., Inc.

The newly-opened Chita plant produces 5.2MW (megawatts) of power, which will create 6,000 MWh (megawatt hours) of energy annually. That's enough to meet the power consumption of approximately 1,200 households.

The plant covers 52,330 square meters (563,275 square feet) of previously unused space and will offset about 3,000 tons of CO2 emissions each year of operation. The addition of the Chita plant gives LIXIL 23.92 MW of total solar power production in Japan.

Main: Koyanagawa Company Limited poured 12.6 km of concrete footings for the new solar project.

Inset: Reinforcement was fed through to mold to give the concrete extra strength.



Main: Koyanagawa used their 5700-C-MAX to pour the small profile that the solar panels were then mounted onto.

Inset: Koyanagawa mounted a brush bar onto the back of the mold to brush finish the concrete as soon as it was poured.

Power Curbers, Inc.
PO Box 1639
Salisbury, NC USA 28145-1639
704-636-5871
Volume 26, Issue 1

POURING CURB & GUTTER ON HALLOWED GROUND

Herrera Construction, Inc. of Jessup, MD, recently had the opportunity to use their Power Curber in one of the most honored historic locations in the Washington, DC area – Arlington National Cemetery.

Located in Arlington, VA, just across the Potomac River from Washington, Arlington National Cemetery is the final resting place for more than 400,000 American soldiers from every US war, and receives more than 4 million visitors each year.

Herrera's crew used their 5700-B to pour 6000' of 16" and 24" curb and gutter along a new road as part of the Millennium Project, a 27-acre expansion that will add over 36,000 burial and niche spaces to the cemetery.

The $84 million expansion borders Joint Base Myer-Henderson Hall along the northwest corner of the cemetery's property and will add 11,000 full-size in-ground plots, 2,600 in-ground cremation plots, and 23,000 niche wall slots. The niche slots are contained in a columbarium, or a mausoleum-type structure that is only for cremated remains.

"It feels great to be part of such a historic place," said Nelson Michaca, Assistant Project Manager for Herrera.

The Herrera team also poured the radius curb in front of the new columbarium, along the north side of the new road through the cemetery expansion.

Herrera has been in business since 2003, when they started with only 5 employees. The company has grown to 30 employees doing all types of concrete work. They purchased a pre-owned Power Curber three years ago, and it has had quite an impact.

"We get more jobs and get the jobs done faster," says Nelson.

The Herrera curb crew likes having the machine, as well. "It's less handwork," Nelson says. "It's been great and we appreciate the help we have gotten from Power Curbers. Whatever part we ask for, we get fast service."

Arlington Cemetery holds 27-30 funerals a day, 5 days a week. That adds up to over 7,000 new burials each year. Without this addition, Arlington would have run out of in-ground burial space by 2025. The additional burial space created by the Millennium Project will allow Arlington to continue serve the nation's veterans into the 2030s.

A similar expansion project is planned for the southern section of the cemetery, on the site of the former U.S. Navy Annex facility. This expansion will extend the cemetery's capabilities into the 2050s.

The Millennium Project expansion is scheduled to open in the summer of 2019.

1 *Herrera Construction's 5700-B pours 24" curb and gutter in Arlington National Cemetery as part of the Millennium Project expansion. The new columbarium, still under construction, can be seen on the left.*

2 *The Herrera crew poured 6000 feet of curb and gutter in the historic cemetery, located across the Potomac River from Washington, DC.*

3 *The Millennium Project jobsite is adjacent to Section 28 of the cemetery, which includes the Vietnam War Memorial Tree.*

4 *Ready-mix trucks had to drive through the heart of the cemetery to reach the jobsite, which was located along the northwest edge of the grounds.*

LEAVING A MARK ON LAS VEGAS

POWER CURBER OWNER POURS CURB AT NEW ARENA

Sahara Concrete used their 5700-Super-B to pour approximately 2,000 linear feet of A-curb and L-curb/gutter around the new facility.

"As always, the machine performed without issue," said Danny Clayton, Vice President at Sahara.

The arena is part of a new development project called "The Park," which will combine the casino hotels and the arena to form a new destination for retail and dining in Las Vegas.

"We poured all of the infrastructure leading up the arena in The Park area," said Clayton. "We put down the perimeter curbs and they paved asphalt in between, like a typical roadway."

Located west of the Strip between New York-New York and Monte Carlo, the T-Mobile Arena opened in April and boasts a 20,000-seat capacity. It was a joint venture between MGM Resorts International and Anschutz Entertainment Group (AEG). The arena will also be home to a new NHL expansion team, which is expected to debut for the 2017-2018 hockey season.

"Time constraints are always a challenge but this one was very tight, since The Park and the arena were to open simultaneously," Clayton said. "MGM is a demanding customer who likes things done quickly."

Despite the challenges of the job, Sahara was proud to leave their mark on this new addition to the Strip.

"Being a part of the arena construction itself was great – it was a very notable project," said Clayton.

Main: Sahara Concrete's 5700-Super-B rolls onto the jobsite at the new T-Mobile Arena in Las Vegas.

Inset: Sahara's crew poured curb in The Park section of the new complex, shown here along the bottom and right side of the photo. (Photo courtesy of Google Images)

Power Curbers INC.
Our Commitment Shows
PO Box 1639
Salisbury, NC USA 28145-1639

Return Service Requested

UPCOMING Trade Shows

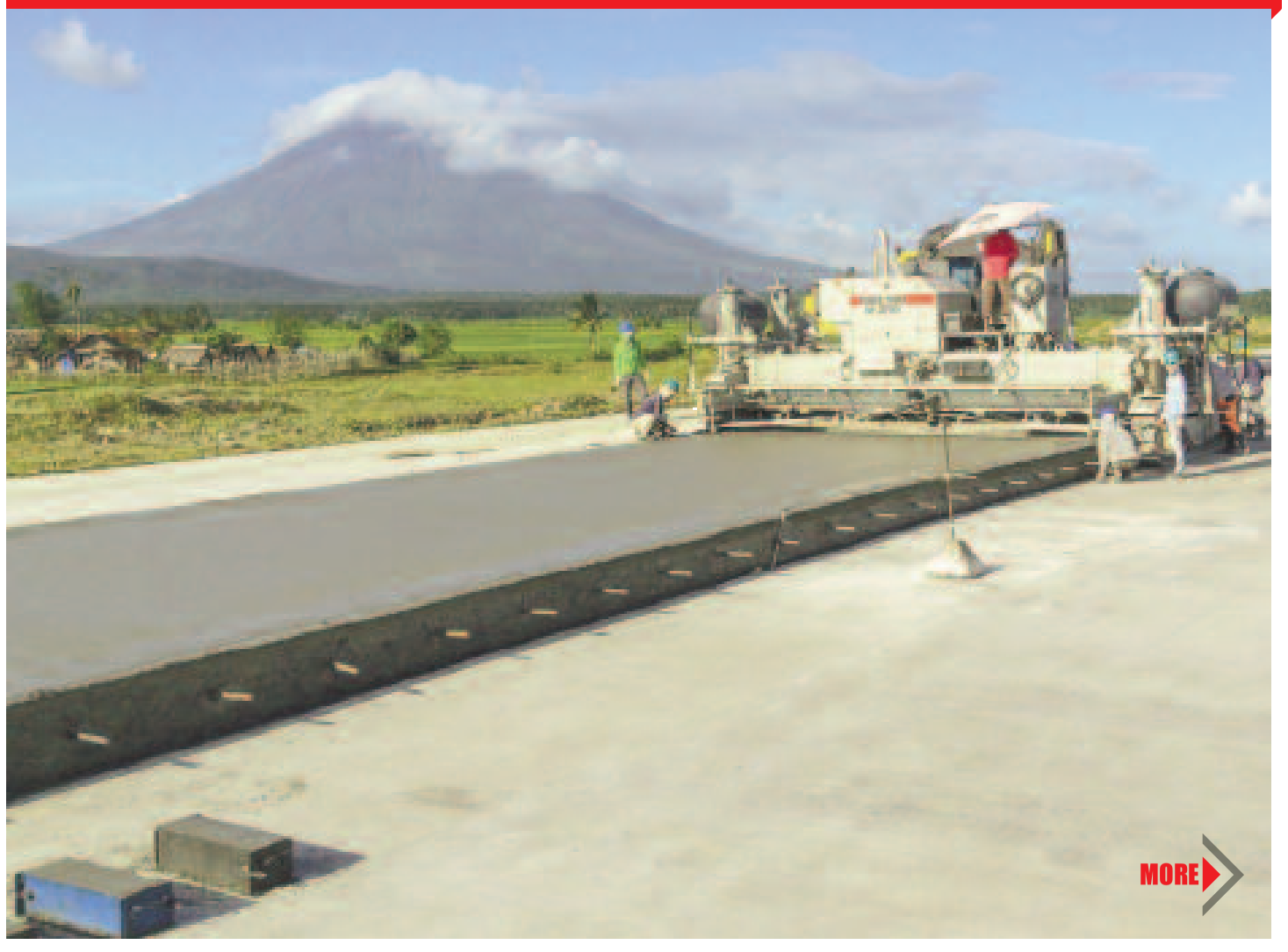
World of Concrete 2017
January 17-20, 2017
Las Vegas Convention Center
Las Vegas, Nevada USA
Booth #C5611

ConExpo 2017
March 7-11, 2017
Las Vegas Convention Center
Las Vegas, Nevada USA
Booth S60538

POWER CURBERS
POWER PAVERS
PROFILES

Volume 26, Issue 1 — Power Curbers, Inc.

AIRPORT JOB NO PROBLEM FOR SF-2700



MORE