Don Talend Content Portfolio:

Civil Engineering | Construction | Mining Equipment, Materials and Technology



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I facilitate revenue growth with consumer insight-based content



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- Repositioned magazine doubled revenue, gained market share leadership in six years

Topcon Positioning Systems

Content and media relations consultant

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- Profit Matters column, construction technology content

Forester Media

Contributing editor, Grading & Excavation Contractor

- Content for trade publisher: 2 million+ reach, \$500,000+ ad revenue increase

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Content consultant – sales collateral assets

Joy Mining Machinery

Content and media relations consultant

Imagination Publishing/Lowe's

Remodeling Trade Forecast – blog post



Imagination Publishing/Lowe's

Proper Fluorescent Lamp Disposal – blog post



Producers face truck specifying trade-offs such as driver comfort, weight distribution, and performance

The trade-offs in truck specifying

When it comes to building a Class I vacational truck from the ground up, there's no qualding automitation Some larger to consider-and new tools that make the process galaker and easier.

By Don Talend

professor a Claus 6 voca Screet phospin that will ton el battere se erectora urilles protesting the right concesso mix-e persize-thread approach doesn't work. It blick in siperiocost fact number and drafter to specify a truck that will 9 the producer's unique requirements. However, technological advances

are meking truck specifying oneign and reces prodictive of actinal performanus. Several holey buck manufactures have made the process quicker and easier by offering agresial nofewere to predict performance (see reparticularly in minor, because many particular to give agention. violantiani are involved

Ever-changing variables like state level, a new plant's design as a now. sharked that offeets the disease error renners conflict with the desire to stor with a single chassis remarkation. er. So the producer must change the Truck design, out that involves several

What are some of the bade of 5 the produces encounteed? They often insolve ariver comfort, weight riscolba-Son, performance, trusk length and

A visit to Disters Prescribit, which has told as meny as 300 meter tracks to a year, may provide a glimpte into the sidure of heavy truck sales. As port of Trunk Cortors of America, one of the largest U.S. dealer rehearts. The dealentity offers everything from sales to have strephones—even a trunge with leadler regimers and a bin-screen TV thinkers non-use white waiting for



lated article below), expectably useful. Problems are fulfill assembly an officers of the Classification, including and slaves, but when designing a vacational trust, bules, fatest trube, and show. Its important is outly being in section to business

regains. The dealer also offers screpulrelated specifiants

Line Rich: a habot preprinted the safes. specializes in miners, says that, with all the available options, manufacturers are moving owny from package tracks. There's eathing wrong with them. but they don't oflyr any value-odded benefits "the says. "You're making the business. It your track instead of the other way around.' Graig Scatt, concrete production manager who oversees an eight-broation, 200 truck openectors for Labbreses Majorsess of ready Mitheay, agrees. Trickage trucks) are is prescent weards." Sootsizes. "New we can get the right size sorbet for what we need to do."

The wate-ofts revolved in consisting lemed to, the following.

Driver cowfort vs. weight distrib-

He producer's most important design private iset #2 Southeast Cats eau and in Tower, where comprehens for qualified drivers is intense. "We looked at how we were treating our drivers," Soott says, "When they changed the CDL requirement of si a sudder we were competing with overshe-road fleight houses." Mithmore marketober develop skills, marer more wanted to provide more combristle robs, Sort says. "Down here Home of our deven water up of 2:50 and keises he'd be in a back he does of the on inviter 110" day, how's no going to final about going out for arother long day?"

So the purchasing team recessorated the eight "socket" instade, but senn't call design and added more expensize-and sometimes beautin-corn. concerts the "smart seeds" with several usion. Reducing truck have weight is: Turnible adjustments, larger color and

Forester Media

Contractors have many factors to consider when purchasing versatile backhoe loaders

Two Machines in One

Posted By Don Talend On January 1, 2009 @ 12:00 am In Construction | No Comments

Because backhoe loaders are just about the most versatile construction machines you'll find on any job site, the grading and excavation contractor needs to consider a significant number of performance capabilities and design attributes when trying to choose the right backhoe model for the job whether purchasing or renting one. If you think of this workhorse as two machines in one-a combination of a compact front-end loader and a mini-excavator-it only makes sense to devote twice as much time and thought to the specification process.

Several industry experts shared with Grading & Excavation Contractor important concepts to consider in order to make as informed a decision as possible. With so many factors to think about, sophistication is the contractor's ally. Although the contractor must rely heavily upon a dealer's expertise, it's a good idea to keep in mind the various items that the experts list so as to ensure that the machine's capabilities can handle so many wide-ranging demands.

Master everything from OSHA regulations to high-tech safety equipment in this FREE Special Report. Construction Safety Topics That Can Save Lives [1], Download it now!

Advantages, Disadvantages

The first decision is whether or not the backhoe suits the job to begin with. Scott Cowan, president of Knox Tenn Rental in Knoxville, TN, points out that the most likely substitute for excavation is the mini-excavator, which has seen increased adoption in recent years. "One of the things that people love about the mini-excavator is the stability factor," says Cowan, whose company rents Allmand Brothers and John Deere backhoes. But, he adds, the backhoe provides tremendous mobility and often can be driven from one site to a nearby one without the need for a trailer, maximizing machine utilization. "The one thing that steers contractors toward a backhoe versus a mini-excavator is jobs that have distance between them; that and the ability to haul material in the front bucket."

Tom Gray, president of Industrial Contracting Services, Holland, OH, says the versatility of his company's two Terex 760 backhoes is perfect for the company's most common project: rail grading. "It's the versatility of having the ability to load and excavate," Gray says. "When you work around the tracks, you've got to stone them back in and you can rough grade with the bucket."

Marcello Bargellini, product specialist for Volvo Construction Equipment, adds that backhoes can travel upward of 20 miles per hour. For jobs that do not involve operation in tight spaces or extremely hilly terrain, the backhoe is the right choice and can dig, backfill, grade, crane, load and unload, and perform other functions. Tom Reith, product manager for Terex Construction Americas, adds site preparation, trenching, installing, concrete breakup, posthole digging, and site cleanup to the list.

Starting Points

Once the contractor determines that the backhoe suits a particular project or future projects, the next step is choosing the right model. The primary criterion for rating backhoe models in North America is digging depth, says Bargellini, Digging depth is measured as the maximum distance achievable from the ground line to below grade at the tips of the bucket teeth and typically is expressed as "digging depth 2-foot flat bottom" and "8-foot flat bottom." These expressions refer to a flat-bottom trench that is actually excavated 2 feet deep and 8 feet long. Standard rated digging depths are 14, 15, 16, and 17 feet.

Bargellini reports that the most popular dig-depth segment is 14 feet, the rating of about 80% of all backhoes sold in North America. In the past few years, he adds, the 15-foot dig-depth backhoe has been gaining in popularity and currently accounts for about 15% to17% of the North American market. Making up most of the remainder of the market, he adds, are "compact backhoes" with dig depths of 8 to13 feet. Bargellini recommends that the contractor

Tag-along forklifts enable masonry unit producers to add delivery services to their manufacturing core competency

Technology

Delivery optimizers

Tag-along forklifts improve customer service and help producers get the most out of their delivery truck fleets

Just as you can't judge a book by its core; you definitely shoulded not be contained to be an about the construction would have welled only inside any property. But the few chill down a labelled in the few chill down a labelled in the second people of the few chill down a labelled in the second people of the down adults. On anything but does down adults.

Called the world's fathed growing type of wheeled construction equipment by one manufactures, tag alongs are turning produces of concrete block and day brack into true delivery specialists. Here's why.

IN Optionary service, "We decided by with the always to become some competitors" says Tone Packers. Best manager at Beach Smally bills. Callerina. Ca. a leader matter company that recently benefit may be at the block contribution termines. "We decided we contil give a betterine service and get a let more sate. Our treatment has packed up transcribering."

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Forester Media

Grapple and shear attachments enable contractors to diversify into complete site preparation work



Forester Media

Contractors respond to nighttime work requirements with safe lighting and dependable generators

Bright Ideas

The contractor has more lighting and auxiliary power choices than ever-often in one unit.

By Don Talend

ore than ever, margin pressures are necessitating that grading work be completed with as little wasted time as possible, yet as safely and with as little disruption to "job-site neighbors" as possible. An example that is in the public eye more than most construction is highway work, which is increasingly taking place at night and on tight schedules so as to minimize the inconvenience to neighbors (read motorists). Of course, the unstoppable force of progress is running into the dual immovable objects of the need to keep the public safe and to keep crews working productively.

Artificial lighting and auxiliary job-site power are two of the most mission-critical items on a remote nighttime job site. Manufacturers of this equipment would tell you that, despite their importance, contractors spend the least amount of time selecting and maintaining this equipment. That should not be the case, with manufacturers offering more choices in lighting quality and power capacity than ever. In buying and renting decisions, the contractor may out to focus on lighting or auxiliary power as separate entities, or combine these items in one

Lighting Coverage, Quality, Portability Stressed

The SHO-HD lighting system from Allmand Bros. is designed to provide increased brightness and whiteness of light for better visibility and greater coverage. The system is now standard on the company's Maxi-Lite Series and Night-Lite Pro Series portable light towers.



The system utilizes the company's SHO parallel lamp fixtures and has 1,250-watt lamps and ballasts and produces 150,000 lumens per lamp, a 36% increase over the 110,000-lumen output of standard 1,000-watt lamps. This increase is said to light up to 45% more surface area to one-half footcandle or higher compared with 1.000-watt fixtures

The system is also designed to increase lighting quality as it. utilizes an enhanced color rendering index of 70 CRI and higher Kelvin color temperature of 3,954°K, compared with 65 CRI and 3,700°K for standard 1,000-watt lamps. The result, accord-

October 2009

Award-winning construction technology column: Mobile asset tracking facilitates preventive truck maintenance



Link to The Concrete Producer article

Producers protect themselves and the driving public by installing collision-avoidance systems in their trucks



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Collision-avoidance systems protect the producer and the public. Insent about to the sale, other at: EVT-80 Culison Warner

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I think that car dovers who get too many tickets should be made to use these bank of stsrent, which could be adopted to was then when there takes regard when cell shores per too. cless to their eachities.

Drw Tarnen

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Paving contractor keeps fast-track JFK Airport runway resurfacing project on schedule with GPS-guided milling



Link to ForConstructionPros.com article

Grading contractor builds passive water treatment system for acid-mine remediation project



Link to Industrial WaterWorld article

Contractor precisely constructs Arizona flood-control canal's steep slopes with automated grade control



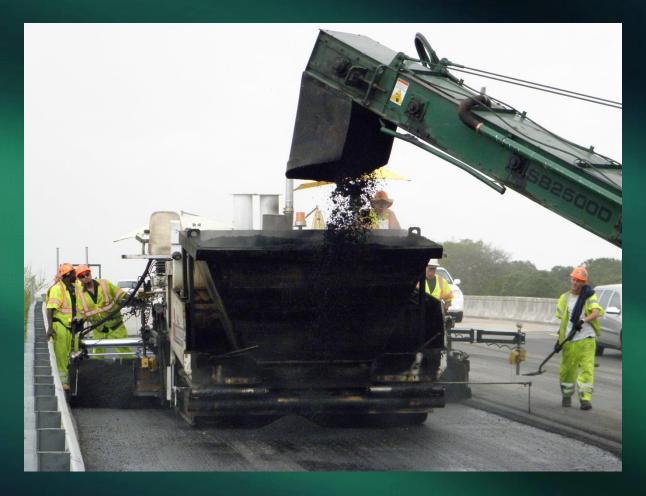
Link to Grading & Excavation Contractor article

Contractor uses high-speed scanning to verify location of truck-mounted cranes and overpass girders



Link to ForConstructionPros.com article

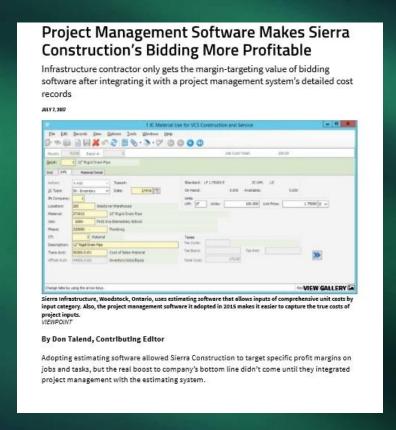
Contractor meets tight elevation and cross-slope tolerances on fast-track highway project



Link to ForConstructionPros.com article

For Construction Pros. com and Equipment Today

Profit Matters column: Capturing financial and project management software for more profitable bids



For Construction Pros. com and Equipment Today

Profit Matters column: Contractors boost data-processing power with cloud-based project management software

How Project Data in the Cloud Makes Three Contractors Leaner and Meaner

Cloud-based systems give contractors and their stakeholders robust computing power and project data accessible from most connected computers without major cap-ex investment

BY DON TALEND - JULY 21, 2017



Web-connected tablets and other mobile devices on construction project sites can access cloud software and data, facilitating real-time data gathering and collaboration among all project stakeholders. Accelerating decisions and preventing errors improves project speed and accuracy.

Contractors can enjoy major project collaboration benefits at very low cost using cloud-based project management information systems. Cloud software and users' data reside on the software provider's servers. Customers access it via the internet with almost any type of connected computer.

Here's how three construction contractors are making quantum leaps in operational efficiency and IT infrastructure savings using cloud software. Real-time project data that all stakeholders

Ready-mix producer designs special mix for historic St. Paul, Minn. bridge repair and prevents cracking

GGBF slag in concrete helps hold up some history

Bridge pier work in St. Paul, Minn., reveals the benefit of the material's production of a lower heat of hydration



Replacing the nearly 100-year-old Wabasha Street Bridge in St. Paul, Minn., in the early 1990s was a project not to be taken lightly. After all, four structures built there since 1859 provided a link across the Mississippi River and aided the city's growth from a fur-trading center to a cosmopolitan state capital. The fourth bridge, a steel truss structure, even made the National Register of Historic Places, although it had a sufficiency rating of only 2 on a scale of 100.

So the weight of history, not just a new bridge, would bear upon piers for a new cast-in-place concrete segmental Cemstone Products Co., convinced MaDOT officials to increase the allowable per-pard stag content for pier concrete on the Walasaha Street Bridge in St. Paul, Minn. A mix using a 70% stag replacement by weight of cement easily met thermal-gradient and strength smedications.

Link to The Concrete Producer article

Sidebar article based on onsite reporting enhanced technical piece

A walk in the park proves our point

hanks to its location in the low Upper Midwest and its proximity to Lake Michigan, which helps cause temperatures to fluctuate wildly, you'd be hard-pressed to find a harsher freeze/thaw environment for concrete than Chicago. It's such a harsh environment that you'd think precasters would want to air-entrain all exterior concrete, even if it weren't required, just for liability protection.

However, the condition of 70-year-old downtown concrete structures attests to non-air-entrained concrete's durability in non-splash zones. Leo Schlosberg, owner and president of Cary (III.) Concrete Products, requested a petrographic analysis of circa 1927 architectural concrete at Grant Park as his company prepared to do some renovation work there in the mid-1990s. The analysis revealed that the non-airentrained exposed-aggregate concrete New York producer Benedict Stone used to cast walkway railings and entryway columns has a probable water-cement ratio of 0.40 and about 760 pounds of cement per yard.

Last summer, we took Schlosberg back to Grant Park to visually examine several hundred of the 1920s railing balusters and entryway columns. In the rare cases where balusters are deteriorating, the lower railings invariably reveal cracks from structural stresses, most likely due to settlement. (The park, located on what used to be the bottom of Lake Michigan. now sits on lake fill.) "Once stress cracks the concrete, water gets in and damages it," notes Schlosberg. When we examined the entryway column panels, any cracking we found was limited strictly to corners, again probably due to stresses from settlement. A couple of panels had popouts and a couple of inches of exposed rebar, but the cover was less than 1 inch thick in all cases The unblemished surfaces of both the balusters and the entryway columns support the belief that architects need not automatically specify air entrainment for exterior precast concrete.

- Don Talend



Leo Schlosberg, Cary Concrete Products: Rare cases of deterioration at Grant Park did not originate from freeze/thaw damage.

After World War II, Frank Principe started a company that supplied concrete to many of New York's iconic structures

BY DON TALEND



The Best Pound of CONCRETE

When the war was over, the men and women who had been twolved, in uniform and in civillan capacities ... immediately begain building their lives and the world they wanted. They were mature beyond their years, tempered by what they had been through. ... They stayed true to their values of personal responsibility, duty, honor, and faith.

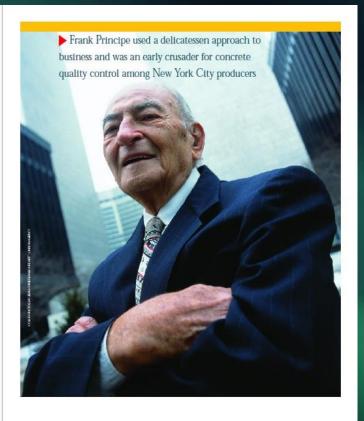
They were a new kind of army now, moving onto the landscapes of industry, whence, art, public policy ... bringing to them the same passions and discipline that had served them so well during the war.

- Tom Brokaw, The Greatest Generation

prop in on a family-owned neighborhood delicateness in Queens and the apoon-clad proprietor approaches you and sales, in passable English, how he can help you. He sees to it that you don't leave until you's one just the right cut of ment. If this sirt, the start of a bestness relationship and he in it sure hell is see you again, he hasn't done hit job. Do that and you'll get an idea of how Francis. J Principe—the quintesential New Yorker, member of the World War II Generation, and American—operated his ready-mixed concerned business for about 40 years.

Phrincipe, now \$1 years young, saw putting the custome finit as the only way to survive as partner in Principe Darma, founded in a hard-edged industrial area of Queens in
1946. Principe had backed into the concrete business but was determined to make a go
of it. Noting that his company entered the five against large established companies with
no interest in friendly compactition, "Everybody said to me, "You're absolutely carry.
They've got their own tugboats, their own sand pits, their own ensent company. How
are you going to compete with them?" "says Principe. "I said, "I don't know, but in this
city the A&P and the other big uppermarkets operatio, and next dony so have the little
delicateson. He makes a living, so there's got to be a place for us here. Maybe we can
furnish something that the big goy can't furnish." I wanted to have the reputation for
making the best pound—not just yard—of concrete in New York."

He had graduated with a degree in civil engineering from Cornell University in 1931 and worked for his father Look, an halian immigrant and Mayor Fiorello LaCouethis's superinteredent of posible buildings. He continued to work for his father, a commercial continuation who began huilding single-family homes under the New Deal-powned Federal Housing who Administration in the Mapperh insighborhood of Quinces in 1914. Nine houses the family had built sat unoccupied because with so many first-time home beyons drafted, mortgage lenders had juilled back on financing. Principe tried to critici in the Navy Cogs of Engineen as a listenerant bit was irretaed defend only a warrant officer's commission, so he worked a



PCI Ascent magazine

Architects can enhance the value of low-rise housing developments with below-grade parking

FEATURE

Precast's aesthetic benefits and ability to merge with parking facilities make it a strong choice for designers of low-rise multifamily projects across the country

ritriects who design lowrise multifamily structures such as apartment and condominium buildings have a clear idea of what owners and developers increasingly want — and don't want. In addition to free confinement and noise control, cuts appeal has become a key ingredent. Many designers are turning to precast concrete components to help achieve this desired look, gaining addebenefts in help rocess.

Curb appeal often includes a secure look as a high priority. The building must be welcoming but also make tenants and visitors feel protected. That need is extending to parking provisions, as developers and designers increasingly are looking to blend these needs into the housing units' studure to avoid having residents park in a lot or on the street, which can obscure or detract from the building's appearance, it also can create a security problem between parking and reaching the safety of the residence.

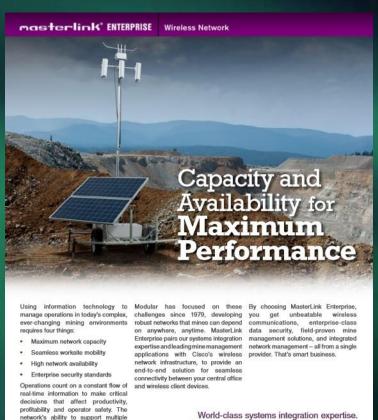
Achieving attractive appearances is easier than ever due to the variety of building systems that are existable, but the high costs of some systems can push the building's financial break-even point further into the future. The materials also can push that docupancy further out, which delays owners recorping their investment through rents or purchases.

Structural and architectural precast concrete building components are allowing designers to meet these increasingly demanding requirements. Several recently completed low-rise multifarnity residential buildings around the country indicate the design flexibility and satisfaction that designers can deliver via a building system that incorporates



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applications and high data rates in

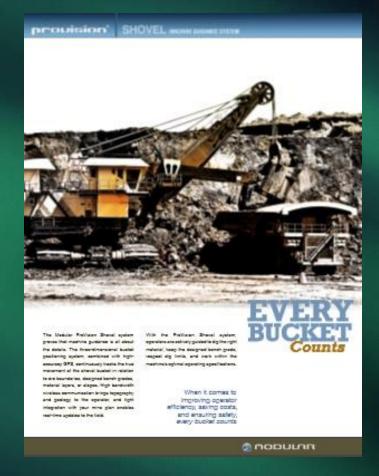
a hostile and dynamic environment

is crucial to maintaining the lines

of communication.

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Shovel guidance system enables operators to mine the correct materials, adhere to surveys, and operate safely



Link to brochure

Joy Mining Machinery

PR: Integrated belt tailpieces and stability jacks maximize underground feeder-breaker efficiency



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